

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

Your reference:

Our reference: HKWSD202/50/108069
Date: 17 June 2022

Attention: Mr Sam Hui/ Mr H L Lai

BY EMAIL & POST (email: wl_hui@wsd.gov.hk/ jack_hl_lai@wsd.gov.hk)

Dear Sirs

Agreement No. CE 5/2019 (EP) Independent Environmental Checker for First Stage of Tseung Kwan O Desalination Plant – Investigation Verification of Monthly EM&A Report No.27 (May 2022)

We refer to emails of 10, 14 and 15 June 2022 attaching Monthly EM&A Report No.27 (May 2022) for the captioned project prepared by the ET.

We have no further comments and hereby verify the captioned report in accordance with Clause 3.5 of the Environmental Permit no. EP-503/2015/A and Further Environmental Permit no. FEP-01/503/2015/A.

Should you have any queries regarding the above, please do not hesitate to contact the undersigned on 2618 2831.

Yours faithfully ANEWR CONSULTING LIMITED

Louis Kwan Independent Environmental Checker

KSYL/lsmt









Contract No. 13/WSD/17

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

Monthly EM&A Report No.27 (Period from 1 May to 31 May 2022)

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Date:	14/06/2022	14/06/2022





REVISION HISTORY

Rev.	DESCRIPTION OF MODIFICATION	Date
А	First Issue for Comments	10 June 2022
В	Revised according to IEC & SOR's comment	14 June 2022



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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/A) for the construction and operation of the Contract.
- A2. In accordance with the Environmental Monitoring and Audit (EM&A) Manual for the Contract, EM&A works for marine water quality, noise, waste management and ecology should be carried out by Environmental Team (ET), Acuity Sustainability Consulting Limited (ASCL), during the construction phase of the Contract.
- A3. This is the 27th Monthly EM&A Report, prepared by ASCL, for the Contract summarizing the monitoring results and audit findings of the EM&A programme at and around Tseung Kwan O Area 137 (TKO 137) during the reporting period from 1 May 2022 to 31 May 2022.
- A4. The EM&A programme for this contract has covered environmental monitoring on construction noise level at selected NSRs and Contractor's environmental performance auditing in the aspects of construction dust, construction noise, water quality, waste management, Landscape and Visual and Ecology.

SUMMARY OF MAIN WORKS UNDERTAKEN & KEY MITIGATION MEASURES IMPLEMENTED

- A5. Key activities carried out in this reporting period for the Contract included the followings:
 - Land Survey;
 - Construction of manholes no.15 and no.16 adjacent to ActiDAFF and RO;
 - Construction of manholes no.2, no.3 and no.4 adjacent to ActiDAFF;
 - Construction of 132kV adjacent to underground utilities
 - Construction of manholes no.6 and no.7 Glass Reinforced Plastic (GRP) pipe installation;
 - Construction of underground utility adjacent to 132kV Substation;
 - Construction of solar panel supports at roof of ActiDAFF;
 - Construction of Reverse Osmosis (RO) Building staircases and internal finishing;
 - Construction of sludge thickener, Post Treatment Building (PTB);
 - Construction of On-Site Chlorine Generation Building (OSCG Bldg) and CO2 Tank area;
 - Internal finishing work at Product Water Storage Tank (PWST), Main Electrical & Central Chiller Plant Building;
 - Manhole construction and GRP pipe installation;
 - Construction of 1/F to 2/F walls and columns of Administration Building;





- Construction of footings F5 and F6 of inspection corridor;
- Construction of parapet of Chemical Building;
- Construction of common wall of Combined Shaft;
- Outfall Shaft Dewatering;
- Intake shaft Retrieval of DN 2500 TBM under water;
- Intake tunnel Demobilize the pipe jacking system and grouting works commence;
- Construction of combined shaft and pump room;
- Slope works Scaffolding erection for rock mapping and tree survey;
- Open Channel Trench Excavation and structure installation;
- E&M works ActiDAFF scaffolding, installation of E&M piping;
- E&M works Reverse Osmosis (RO) Building Fire services installation;
- E&M works CO2 Tank area installation of silos; and
- E&M works Chiller Building Installation of chillers
- A6. The major environmental impacts brought by the above construction works include:
 - Construction dust and noise generation from marine construction works, excavation works, construction works, rock cutting works and pipe piling driving works
 - Waste generation from the construction activities
 - Impact on water quality from marine construction works and inland construction works
- A7. The key environmental mitigation measures implemented for the Contract in this reporting period associated with the above construction works include:
 - Dust suppression by regular wetting and water spraying for construction works;
 - Reduction of noise from equipment and machinery on-site and regular inspection to machinery and plants/vehicles on-site to ensure proper functioning;
 - Sorting and storage of general refuse and construction waste; and
 - Deployment of temporary silt curtain in the area where marine construction works were conducted and deployment of water sedimentation tanks for treatment of wastewater at inland and marine areas before discharge.

SUMMARY OF EXCEEDANCE & INVESTIGATION & FOLLOW-UP

A8. No noise monitoring was conducted during the reporting period since there are no Contract -related construction activities undertaken within a radius of 300m from the monitoring locations. No exceedance of the Action Level was recorded during the reporting period.

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- A9. The EM&A works for water quality were conducted during the reporting period in accordance with the EM&A Manual.
- A10. Nineteen (19) of the general water quality monitoring results of suspended solids (SS) obtained had exceeded the Action Level. Six (6) of the general water quality monitoring results of SS obtained during the reporting period had exceeded the Limit Level.
- A11. Details of the exceedance are presented in **Appendix 0**.
- A12. Investigation on the reason of exceedance has been carried out, where the exceedances of SS on 3, 5, 7, 12, 14, 21, 26, 28 and 31 May 2022 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 O**.
- A13. It was concluded that all exceedances recorded in the reporting month were unrelated to the Contract.
- A14. In this reporting period, 44 times of landfill gas monitoring was conducted at Wan Po Road (Ch1+360 Ch1+513).
- A15. No exceedance of action and limit levels of methane, oxygen and carbon dioxide was recorded in the reporting month.
- A16. Joint site inspections of the construction work by ET and IEC were carried out on 3, 10, 17, 24 and 31 May 2022 to audit the mitigation measures implementation status. Observations and recommendations were recorded in the site inspection checklists and provided to the contractors together with the appropriate follow-up actions where necessary.

COMPLAINT HANDLING AND PROSECUTION

- A17. No environmental complaint was received during the reporting period.
- A18. Neither notification of summons nor prosecution was received for the Contract.

Reporting Change

A19. There was no change to be reported that may affect the on-going EM&A programme.

SUMMARY OF UPCOMING KEY ISSUES AND KEY MITIGATION MEASURES

- A20. Key activities anticipated in the next reporting period for the Contract will include the followings:
 - Construction of 132kV adjacent to underground utilities;
 - Construction of Reverse Osmosis (RO) Building staircases and internal finishing;
 - Construction of sludge thickener, Post Treatment Building (PTB);



- Construction of On-Site Chlorine Generation Building (OSCG Bldg) and CO2 Tank area;
- Internal finishing work at Product Water Storage Tank (PWST), Main Electrical & Central Chiller Plant Building;
- Manhole construction and Glass Reinforced Plastic (GRP) pipe installation;
- Construction of 2/F and 3/F walls and columns of Administration Building;
- Installation of curtain wall supports of Administration Building;
- Construction of footings and columns of FT-5, FT-6, FT-7 and FT-8 of inspection corridor;
- Construction of Stair Tower of inspection corridor;
- Construction of side tanks no.2, 3 and 4 of ActiDAFF;
- Construction of manholes no.15 and no.16 adjacent to ActiDAFF and RO;
- Construction of manhole no.2, no.3 and no.4 adjacent to ActiDAFF;
- Construction of manholes no.6 and no.7 Glass Reinforced Plastic (GRP) pipe installation;
- Outfall Shaft Dewatering;
- Intake shaft retrieval of DN2500 TBM under water;
- Intake shaft General cleaning for finial inspection;
- Outfall Tunnel Demobilize the pipe jacking system and grouting;
- Construction of combined shaft and pump room;
- Slope works Scaffolding erection for rock mapping and tree survey;
- Open Channel Trench Excavation and structure installation;
- E&M works ActiDAFF scaffolding, installation of E&M piping;
- E&M works RO- installation of fire services, steel pipe, GRP pipe;
- E&M works CO2 tank area installation of vaporizers;
- E&M works Chiller Building installation of chillers, electrical system;
- E&M works Product water Building installation of pluming, air duct and electoral system.
- A21. The major environmental impacts brought by the above construction works will include:
 - Construction dust and noise generation from pipe jacking works, excavation and construction works;
 - Waste generation from construction activities; and
 - Impact on water quality from marine construction works and inland construction works.
- A22. The key environmental mitigation measures for the Contract in the coming reporting period associated with the above construction works will include:
 - Reduction of noise from equipment and machinery on-site;





- Sorting and storage of general refuse and construction waste; and
- Deployment of temporary silt curtain in the area where marine construction works were conducted and deployment of water sedimentation tanks for treatment of wastewater at inland and marine areas before discharge.



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1. BASIC CONTRACT INFORMATION

BACKGROUND

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

THE REPORTING SCOPE

1.4. This is the 27th Monthly EM&A Report for the Contract which summarizes the key findings of the EM&A programme during the reporting period from 1 May to 31 May 2022.

CONTRACT ORGANIZATION

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

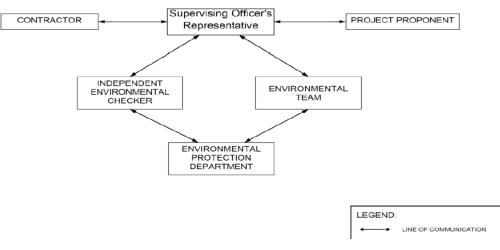


Figure 1.1Contract Organization Chart

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	Benny Lam	2634-3573
Supervising Officer	Project Manager	Christina Ko	2608-7302
(Binnies Hong Kong Limited)	Chief Resident Engineer	Roger Wu	6343-1002
The Jardine Engineering Corporation, Limited, China State Construction	Project Manager	Stephen Yeung	2807-4665
Engineering (Hong Kong) Limited and Acciona Agua, S.A. Trading	Environmental Monitoring Manager	Brian Kam	9456-9541
Acuity Sustainability Consulting Limited	Environmental Team Leader	Jacky Leung	2698-6833
ANewR Consulting Limited	Independent Environmental Checker (IEC)	Louis Kwan	2618-2831

SUMMARY OF CONSTRUCTION WORKS

- 1.7. Details of the major construction activities undertaken in this reporting period are shown as below. The construction programme is presented in **Appendix A**.
- 1.8. Key activities carried out in this reporting period for the Contract included the followings:
 - Land Survey;
 - Construction of manholes no.15 and no.16 adjacent to ActiDAFF and RO;
 - Construction of manholes no.2, no.3 and no.4 adjacent to ActiDAFF;
 - Construction of 132kV adjacent to underground utilities
 - Construction of manholes no.6 and no.7 Glass Reinforced Plastic (GRP) pipe installation;
 - Construction of underground utility adjacent to 132kV Substation;
 - Construction of solar panel supports at roof of ActiDAFF;
 - Construction of Reverse Osmosis (RO) Building staircases and internal finishing;
 - Construction of sludge thickener, Post Treatment Building (PTB);
 - Construction of On-Site Chlorine Generation Building (OSCG Bldg) and CO2 Tank area;

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- Internal finishing work at Product Water Storage Tank (PWST), Main Electrical & Central Chiller Plant Building;
- Manhole construction and GRP pipe installation;
- Construction of 1/F to 2/F walls and columns of Administration Building;
- Construction of footings F5 and F6 of inspection corridor;
- Construction of parapet of Chemical Building;
- Construction of common wall of Combined Shaft;
- Outfall Shaft Dewatering;
- Intake shaft Retrieval of DN 2500 TBM under water;
- Intake tunnel Demobilize the pipe jacking system and grouting works commence;
- Construction of combined shaft and pump room;
- Slope works Scaffolding erection for rock mapping and tree survey;
- Open Channel Trench Excavation and structure installation;
- E&M works ActiDAFF scaffolding, installation of E&M piping;
- E&M works Reverse Osmosis (RO) Building Fire services installation;
- E&M works CO2 Tank area installation of silos; and
- E&M works Chiller Building Installation of chillers
- 1.9. A summary of the valid permits, licences, and/or notifications on environmental protection for this Contract is presented in **Table 1.2**.

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

Permit/ Licenses/	Reference	Validity Period
Notification		
Environmental Permit	FEP – 01/503/2015/A	Throughout the Contract
Notification of Construction Works under the Air Pollution Control (Construction Dust) Regulation (Form NA)	Ref. No.: 451539	Throughout the Contract
Billing Account for Disposal of Construction Waste	7036276	Throughout the Contract
Chemical Waste Producer Registration	5213-839-A2987-01	Throughout the Contract
Wastewater Discharge Licence (Land and Marine works)	WT00035775-2020	23/08/2021 - 31/07/2025
Construction Noise Permit for general works, TBM at combined shaft and marine works	GW-RE0337-22	01/05/2022 – 31/10/2022

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

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

Parameters	Status
Water Quality	
Baseline Monitoring under EM&A	The baseline water quality monitoring was
Manual	conducted between 12 May 2020 to 6 Jun 2020
Impact Monitoring	On-going
Noise	
Baseline Monitoring	The baseline noise monitoring result has been
	reported in Baseline Monitoring Report and
	submitted to EPD under EP Condition 3.4
Impact Monitoring	On-going
Waste Management	
Mitigation Measures in Waste	On-going
Management Plan	
Landfill Gas	
Regular Monitoring when	In this reporting period, 44 times of landfill gas
Construction Works are within the	monitoring was conducted at Wan Po Road
250m Consultation Zone	(Ch1+360 – Ch1+513).
Environmental Audit	
Site Inspection covering Measures	On-going
of Air Quality, Noise Impact, Water	
Quality, Waste, Ecological Quality,	
Fisheries, Landscape and Visual	

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



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2. Noise

MONITORING REQUIREMENTS

- 2.1. To ensure no adverse noise impact, noise monitoring is recommended to be carried out within 300m radius from the nearby noise sensitive receivers (NSRs), during construction phase. The NSRs selected as monitoring station are (i) NSR4 Creative Secondary School, (ii) NSR24 PLK Laws Foundation College, and (iii) NSR31 School of Continuing and Professional Studies CUHK respectively.
- 2.2. In accordance with the EM&A Manual, baseline noise level at the noise monitoring stations were established as presented in the Baseline Monitoring Report. Impact noise monitoring will be conducted once per week in the form of 30-minutes measurements L_{eq} , L_{10} and L_{90} levels recorded at each monitoring station between 0700 and 1900 on normal weekdays.
- 2.3. Referring to EM&A manual Section 4.1.2, the impact noise monitoring should be carried out at all the designated monitoring stations when there are contract-related construction activities undertaken within a radius of 300m from the monitoring stations.
- 2.4. No impact monitoring for noise impact was conducted in the reporting month due to the overly distant monitoring station from the works location, where they were farther than 1 km from the closest monitoring station NSR4 to the works location.
- 2.5. Impact noise monitoring will be conducted weekly in the reporting period between 0700-1900 on normal weekdays. Construction works would follow stipulations of the valid Construction Noise Permits if works had to be conducted during restricted hours or public holidays.
- 2.6. Construction noise level were measured in terms of the A-weighted equivalent continuous sound pressure level (LAeq). Leq 30min was used as the monitoring parameter for the time period between 0700 and 1900 on normal weekdays. **Table 2.1** summarizes the monitoring parameters, frequency and duration of the impact noise monitoring.

Time	Duration	Interval	Parameters
Daytime: 0700-1900	Day time: 0700-1900 (during normal weekdays)	Continuously in $L_{eq 5min}/L_{eq 30min}$ (average of 6 consecutive $L_{eq 5min}$)	L _{eq 30min} L _{10 30min} & L _{90 30min}

 Table 2.1
 Noise Monitoring Parameters, Time, Frequency and Duration

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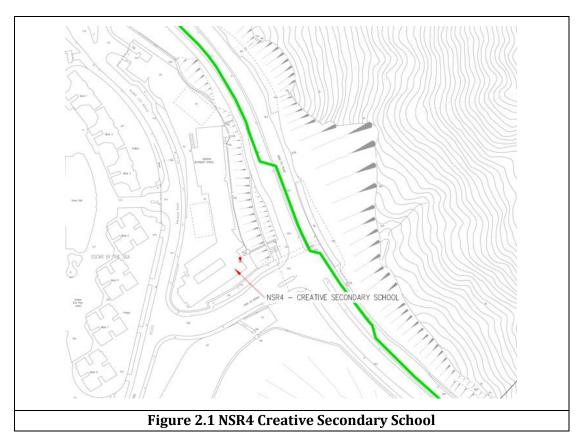
MONITORING LOCATIONS

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

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

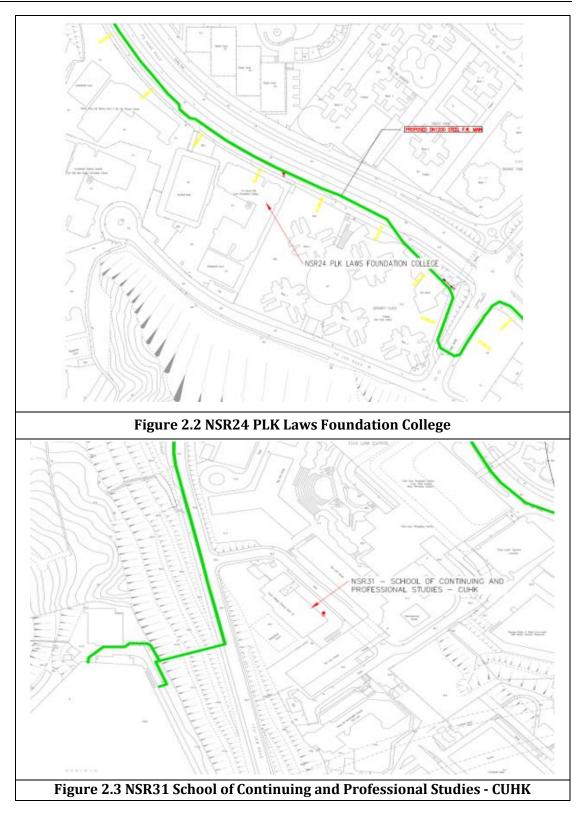
Table 2.2Noise Sensitive Receivers

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











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IMPACT MONITORING METHODOLOGY

- 2.10. Integrated sound level meter was used for the noise monitoring. The meter was in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications. Immediately prior to and following each noise measurement the accuracy of the sound level meter was checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements was accepted as valid only if the calibration levels before and after the noise measurements agree to within 1.0 dB(A). Calibration certificates of the instruments used to be shown at **Appendix F** are intentionally left blank since no impact monitoring equipment was used in the reporting month.
- 2.11. Noise measurements were not made in the presence of fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

ACTION AND LIMIT LEVELS

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

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

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

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

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



MONITORING RESULTS AND OBSERVATIONS

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

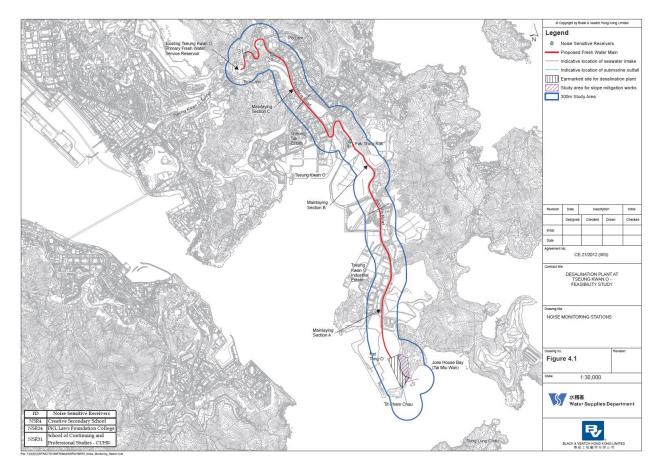


Figure 2.4 Site Layout Plan with Noise Sensitive Receivers and Desalination Plant



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3. WATER QUALITY

- 3.1. In accordance with the recommendations of the EIA, water quality monitoring is required during dredging for the submarine pipelines and, during operation phase. In addition, baseline water quality monitoring will be required prior to the commencement of marine construction activities. 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. The water quality monitoring programme will be carried out to allow any deteriorating water quality to be readily detected and timely action taken to rectify the situation. The status and locations of water quality sensitive receivers and the marine works location may change after issuing this Document. If required, the ET in consultation with IEC will propose updated monitoring locations and seek approval from EPD.
- 3.2. Water quality monitoring for the Contract can be divided into the following stages:
 - Dredging activities during construction phase;
 - Discharge of effluent from main disinfection during construction phase;
 - Operation phase first year upon commissioning; and,
 - Continuous monitoring of effluent quality.

WATER QUALITY PARAMETERS

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

Table 3.1	Parameters measured in the Impact Marine Water Quality Monitoring
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Parameters	Unit	Abbreviation
In-situ measurements		
Dissolved oxygen	mg/L	DO
Temperature	oC	-
рН	-	-
Turbidity	NTU	-
Salinity	0/00	-
Total Residual Chlorine NOTE1	mg/L	TRC
Laboratory measurements		
Suspended Solids	mg/L	SS
Iron-Soluble	mg/L	Fe
Anti-scalant as Reactive Phosphorus	mg/L	PO4 as P-

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



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

MONITORING EQUIPMENT

3.5. 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 (e.g. Kahlsico Water Sampler 13SWB203 or an approved similar instrument). 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.

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Total Residual Chlorine for Discharge of Sterilization Water - Total residual chlorine (TRC) shall be measured in-situ using a handheld colorimeter with its testing toolkits.

SAMPLING / TESTING PROTOCOLS

- 3.6. All in situ monitoring instruments were checked, calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme before use, and subsequently re-calibrated at monthly intervals throughout the stages of the water quality monitoring. Responses of sensors and electrodes were checked with certified standard solutions before each use.
- 3.7. **Table 3.2** summarizes the equipment used in the water quality monitoring program. The copies of the calibration certification of multi-parameter water quality system are shown in the **Appendix N**.

Equipment	Model & Make	Serial Number	Calibration Expiry Date	Qty.
Water Sampler	A 2-Litre transparent PVC cylinder with latex cups at both ends (Kahlsico Water Sampler 13SWB20)	-	-	1
Multi- parameter	HORIBA U-53	PPHNOMXY	10 Aug 22	
Water Quality System	YSI ProDSS	22C106561	19 Jul 22	2

Table 3.2 Water Quality Monitoring Equipment

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

LABORATORY MEASUREMENT AND ANALYSIS

3.9. All laboratory works were carried out in a HOKLAS accredited laboratory. Sufficient volume of each water sample was collected at the monitoring stations for carrying out the laboratory analyses. Using chain of custody forms, collected water samples were transferred to a HOKLAS accredited laboratory for immediate processing. The determination work was start within the next working day after collection of the water samples. The laboratory measurements were provided to the client within 5 working days of the sampling event. 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 submitted information was including pre-treatment procedures, instrument use, Quality Assurance/Quality Control (QA/QC) details (such as blank, spike recovery, number of duplicate samples per-batch etc), detection limits and accuracy. The



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QA/QC details were in accordance with requirements of HOKLAS or another internationally accredited scheme.

3.10. Parameters for laboratory measurements, standard methods and detection limits are presented in **Table 3.3**.

		ymomeormg			
Parameters	Standard Methods	Detection Limit	Reporting Limit	Precision	
Dissolved oxygen (mg/L)	Instrumental, CTD	0.1	-	±25%	
Temperature (oC)	Instrumental, CTD	0.1	-	±25%	
рН	Instrumental, CTD	0.1	-	±25%	
Turbidity (NTU)	Instrumental, CTD	0.1	-	±25%	
Salinity (0/00)	Instrumental, CTD	0.1	-	±25%	
Suspended Solids (mg/L)	APHA 23rd Ed 2540D	1.0	2.5	±17%	
Total Residual Chlorine (mg/L)	APHA 21st Ed 4500 – ClG	0.1	0.2	±10%	
Iron-soluble	USEPA 6010C	0.2	0.2	±25%	
Anti-scalant as Reactive phosphorus	APHA 4500P: B&F	0.01	0.01	±25%	

Table 3.3 Laboratory measurements, standard methods and corresponding
detection limits of marine water quality monitoring

3.11. If exceedances were found during water monitoring, the actions in accordance with the Event and Action Plan will be carried out according to **Appendix G**.

MONITORING LOCATION

3.12. The Impact water quality monitoring locations are in accordance with the EM&A Manual and detailed in **Table 3.4** below. A schedule for water quality monitoring was prepared by the ET and approved by IEC and EPD prior to the commencement of the monitoring.

Table 3.4Location of Impact 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

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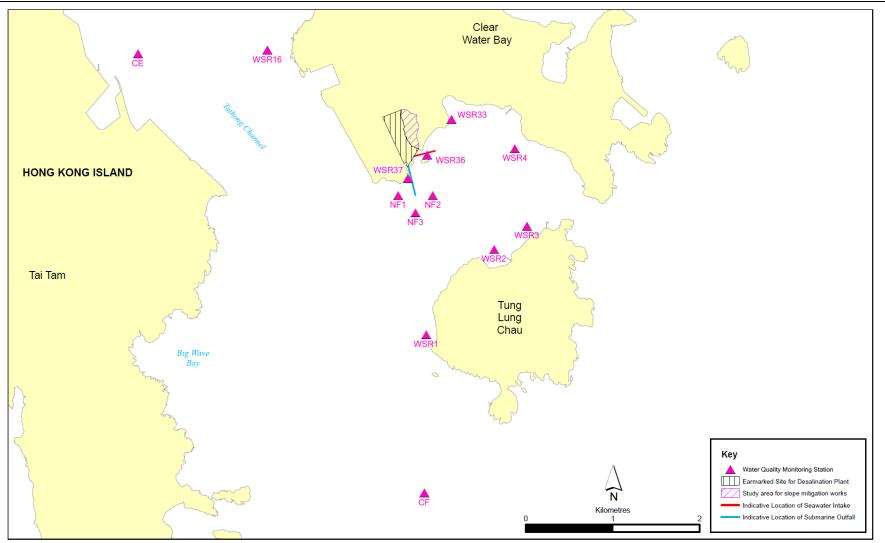




WSR33	847159	814488	Ecological sensitive receiver at Tai Miu Wan
WSR36	846878	814081	Ecological sensitive receiver at Kwun Tsai
WSR37	846655	813810	Ecological sensitive receiver at Tit Cham Chau
NF1	846542	813614	Edge of mixing zone, \sim 200m west of outfall diffuser
NF2	846942	813614	Edge of mixing zone, \sim 200m east of outfall diffuser
NF3	846742	813414	Edge of mixing zone, \sim 200m south of outfall diffuser

3.13. WSR1 to WSR37 were identified in accordance with Annex 14 of the EIAO-TM as well as Clause 3.4.4.2 of the Environmental Impact Assessment Study Brief for Desalination Plant at Tseung Kwan O (No. ESB-266/2013). WSR1 to WSR3 are sited near the Tung Lung Chau Fish Culture Zone; WSR16 and WSR36 are sited near the coral assemblages along the coastlines of Fat Tong Chau and Kwun Tsai respectively; WSR 4 and WSR33 are sited near the Coastal Protection Area and coral assemblages in waters of Tai Miu Wan; WSR37 is sited near the fisheries resource including spawning and nursery grounds at the coastal water of Tit Cham Chau. Contract No. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Monthly EM&A Report No.27









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SAMPLING FREQUENCY

- 3.14. During periods when there are dredging works, impact monitoring was undertaken at the monitoring stations as shown in **Figure 3.1** and **Table 3.4** three days per week during the construction phase after the commencement of marine construction works and dredging activities. Monitoring at each station was undertaken at both mid-ebb and mid-flood tides on the same day. The tidal range selected for the impact monitoring was at least 0.5 m for both flood and ebb tides as far as practicable. 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.
- 3.15. The monitoring location/position, time, water depth, water temperature, salinity, weather conditions, sea conditions, tidal stage, special phenomena and work underway at the marine works site were recorded.

SAMPLING DEPTHS & REPLICATION

3.16. For Impact monitoring, each station was sampled and measurements/ water samples was taken at three depths, 1 m below the sea surface, mid-depth and 1 m above the seabed. For stations that are less than 3 m in depth, only the mid depth sample was taken. For stations that are less than 6 m in depth, only the surface and seabed sample were taken. 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. All water quality monitoring results were summarized in **Appendix L**.

ACTION AND LIMIT LEVELS

3.17. The Action and Limit Levels have been set based on the derivation criteria specified in the EM&A Manual. The Action/Limit Levels have been derived and are presented in Table 3.5.

MONITORING PROGRAMME

- 3.18. The ET of the Contract had conducted the baseline water monitoring between 12 May 2020 to 6 Jun 2020 at the thirteen designated monitoring stations and the six designated monitoring at waters near TKO in accordance with the EM&A Manual and Contract Specification respectively. The baseline monitoring results was presented in Baseline Water Quality Monitoring Report separately.
- 3.19. The commencement of marine construction and dredging activities for the Contract have been conducted in March and April 2021 respectively.





Parameters	Action	Limit		
Construction Phas	e Impact Monitoring			
DO in mg/L	Surface and Middle	Surface and Middle		
	7.30 mg L ⁻¹	4 mg L-1		
	<u>Bottom</u>	<u>Bottom</u>		
	7.31 mg L ^{.1}	2 mg L-1		
	<u>Tung Lung Chau Fish Culture Zone</u>	Tung Lung Chau Fish Culture Zone		
	5.1 mgL ⁻¹ or level at control station	5.0 mgL ⁻¹ or level at control station		
	(whichever the lower)	(whichever the lower)		
SS in mg/L	5.00 mg L ⁻¹ or 20% exceedance of	6.00 mg L ⁻¹ or 30% exceedance o		
(Depth-averaged)	value at any impact station	value at any impact station		
	compared with corresponding data	compared with corresponding data		
	from control station	from control station		
Turbidity in NTU	2.41 NTU or 20% exceedance of	2.84 NTU or 30% exceedance o		
(Depth-averaged)	value at any impact station	value at any impact station		
	compared with corresponding data	compared with corresponding data		
	from control station	from control station		
First-year Operati	on Phase Monitoring ^{iv}			
DO in mg/L	Surface and Middle	Surface and Middle		
	7.30 mg L ⁻¹	4 mg L-1		
	Bottom	<u>Bottom</u>		
	7.31 mg L ⁻¹	2 mg L-1		
	<u>Tung Lung Chau Fish Culture Zone</u>	Tung Lung Chau Fish Culture Zone		
	5.1 mgL ⁻¹ or level at control station	5.0 mgL ⁻¹ or level at control station		
	(whichever the lower)	(whichever the lower)		
SS in mg/L	5.00 mg L ⁻¹ or 20% exceedance of	6.00 mg L ⁻¹ or 30% exceedance o		
(Depth-averaged)	valueat any impact station	value at any impact station		
	compared with corresponding data	compared with corresponding dat		
	from control station	from control station		

Table 3.5Derived Action and Limit Levels for Water Quality





Turbidity in NTU	2.41 NTU or 20% exceedance of	2.84 NTU or 30% exceedance o						
(Depth-averaged)	value at any impact station	value at any impact station						
	compared with corresponding data	compared with corresponding data						
	from control station	from control station						
Salinity in PSU	34.28 PSU or 9% exceedance of	34.60 PSU or 10% exceedance of						
(Depth-averaged)	value at any impact station	value at any impact station						
	compared with corresponding data	compared with corresponding data						
	from control station	from control station						
Iron in mg/L	0.3 mgL ⁻¹	0.3 mgL ⁻¹						
(Depth-averaged)								

Notes:

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

ii. For D0, 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. For the Action and Limit Levels adopted during First-year Operation Phase Monitoring, further review would be made according to the EM&A Manual during Operation Phase.

MONITORING RESULTS AND OBSERVATIONS

- 3.20. General water quality monitoring at the ten monitoring stations (CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36 and WSR37) were conducted on 3, 5, 7, 10, 12, 14, 17, 19, 21, 24, 26, 28 and 31 May 2022.
- 3.21. Nineteen (19) of the general water quality monitoring results of suspended solids (SS) obtained had exceeded the Action Level. Six (6) of the general water quality monitoring results of SS obtained during the reporting period had exceeded the Limit Level. Details of the exceedance are presented in **Appendix O**.
- 3.22. Investigation on the reason of exceedance has been carried out, where the exceedances of SS on 3, 5, 7, 12, 14, 21, 26, 28 and 31 May 2022 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 0**.
- 3.23. Monitoring results of 6 key parameters: Salinity, DO, turbidity, SS, pH and temperature in this reporting, are summarized in **Table 3.6** and **Table 3.7**, and detailed results are presented in **Appendix L**.





Table 3.6

Summary of Impact Water Quality Monitoring Results (Mid-Flood)

					Paramete	rs		
Locations		Dissolved Oxyg Salinity (mg/L)			gen pH	Turbidity	Suspended	Temp.(°C)
		(ppt)	Surface & Middle	Bottom	pn	(NTU)	Solids (mg/L)	remp.(*c)
	Avg.	32.7	9.0	9.0	8.2	3.3	3.9	25.1
CE	Min.	31.1	8.1	8.1	7.9	2.6	2.5	21.5
	Max.	33.7	10.0	10.1	8.4	4.3	13.0	26.3
	Avg.	32.6	8.9	8.9	8.2	4.0	4.6	25.4
CF	Min.	31.2	8.0	8.0	8.1	3.4	2.5	23.8
	Max.	33.4	9.7	9.6	8.4	5.0	16.0	26.5
	Avg.	32.7	9.0	9.0	8.2	2.7	4.0	25.4
WSR1	Min.	30.4	8.0	8.1	7.9	1.8	2.5	23.9
	Max.	33.8	9.7	9.6	8.5	4.1	14.0	26.5
	Avg.	32.5	9.0	8.9	8.2	2.4	3.7	25.5
WSR2	Min.	30.3	8.1	8.2	8.0	1.8	2.5	24.3
	Max.	33.6	9.9	9.8	8.4	3.6	11.0	26.7
	Avg.	32.6	8.9	8.9	8.2	2.7	4.7	25.5
WSR3	Min.	30.7	8.1	8.1	8.0	1.8	2.5	24.4
	Max.	33.6	9.7	9.8	8.4	4.3	24.0	26.3
	Avg.	32.5	9.0	9.0	8.2	2.8	5.0	25.5
WSR4	Min.	30.8	8.3	8.3	8.1	1.9	2.5	24.2
	Max.	33.7	9.6	9.5	8.4	4.2	33.0	26.3
	Avg.	32.7	8.9	8.9	8.2	2.9	3.9	25.5
WSR16	Min.	31.1	8.0	8.0	8.1	2.1	2.5	24.3
	Max.	33.6	9.9	9.9	8.3	4.2	12.0	26.8
	Avg.	32.6	8.8	8.7	8.2	2.8	4.3	25.7
WSR33	Min.	30.7	8.1	8.2	8.0	2.0	2.5	24.4
	Max.	33.7	9.8	9.8	8.4	4.0	12.0	26.6
	Avg.	32.4	9.0	9.0	8.2	2.8	4.8	25.4
WSR36	Min.	31.1	8.4	8.4	8.0	1.8	2.5	24.2
	Max.	33.2	9.8	9.8	8.4	3.8	13.0	26.4
	Avg.	32.8	8.9	8.9	8.2	2.8	4.1	25.5
WSR37	Min.	30.6	8.1	8.1	8.0	1.8	2.5	24.0
	Max.	33.7	9.7	9.7	8.4	4.3	14.0	26.5

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 DO where the data for "Surface & Middle" and "Bottom" are calculated separately.

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





Table 3.7

Summary of Impact Water Quality Monitoring Results (Mid-Ebb)

					Paramete	rs			
Locations		Dissolved Oxygen Salinity (mg/L)		рН	Turbidity	Suspended	Temp.(°C)		
		(ppt)	Surface & Middle	Bottom	pn	(NTU)	Solids (mg/L)	Temp.(%C)	
	Avg.	32.6	8.8	8.8	8.2	4.0	4.6	25.4	
CE	Min.	30.6	8.2	8.2	8.0	3.0	2.5	24.1	
	Max.	33.4	9.6	9.3	8.3	5.0	14.0	26.3	
	Avg.	32.6	9.0	9.0	8.2	3.4	5.5	25.4	
CF	Min.	30.8	8.2	8.3	8.0	2.5	2.5	24.3	
	Max.	34.1	10.1	9.9	8.4	4.5	17.0	26.6	
	Avg.	32.5	8.9	8.9	8.2	2.8	4.7	25.4	
WSR1	Min.	30.4	8.2	8.3	8.0	1.8	2.5	23.9	
Max.		33.6	9.9	9.8	8.4	4.4	14.0	26.5	
	Avg.	32.6	8.8	8.7	8.2	2.4	4.3	25.5	
WSR2	Min.	n. 30.8	7.9	8.0	8.0	1.9	2.5	24.6	
	Max.	34.3	9.5	9.3	8.3	3.9	17.0	26.2	
WSR3	Avg.	32.5	8.8	8.9	8.2	2.7	4.8	25.4	
	Min.	30.6	8.2	8.1	8.0	1.6	2.5	23.8	
	Max.	33.8	9.8	9.7	8.4	4.0	16.0	26.4	
	Avg.	32.5	9.0	8.9	8.2	2.8	4.4	25.5	
WSR4	Min.	30.5	8.3	8.2	8.0	1.9	2.5	24.4	
	Max.	33.9	10.0	9.8	8.4	4.0	14.0	26.4	
	Avg.	32.7	8.8	8.8	8.2	2.8	4.5	25.4	
WSR16	Min.	30.5	8.0	8.1	8.0	2.0	2.5	24.2	
	Max.	34.3	9.8	9.9	8.4	3.8	11.0	26.2	
	Avg.	32.5	8.7	8.7	8.2	2.7	4.8	25.5	
WSR33	Min.	30.8	8.1	8.0	8.0	1.8	2.5	23.9	
	Max.	33.7	9.7	9.6	8.4	4.1	30.0	26.6	
	Avg.	32.5	8.8	8.8	8.2	2.8	4.3	25.5	
WSR36	Min.	30.2	8.0	8.1	8.0	1.7	2.5	24.4	
	Max.	34.2	9.5	9.5	8.4	3.8	12.0	26.7	
	Avg.	32.5	8.8	8.8	8.2	2.8	4.7	25.4	
WSR37	Min.	30.6	8.0	8.0	8.0	1.9	2.5	24.2	
	Max.	33.8	9.8	9.7	8.3	3.7	11.0	26.3	

Notes:

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

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



4. WASTE

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

		Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
Repor Mon	-	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper / cardboard packaging	Plastics ⁽¹⁾	Chemical Waste	Others, e.g. general refuse
		(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)
May 2	022	6.300	0.000	0.000	0.000	6.300	0.000	0.000	0.000	0.000	0.000	71.350

Table 4.1Quantities of Waste Generated from the Contract during May 2022

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



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5. LANDFILL GAS MONITORING

MONITORING REQUIREMENT

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

MONITORING LOCATION

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

MONITORING PROGRAMME

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

MONITORING LOCATION

5.6. The area required to be monitored for landfill gas in the reporting period is shown in **Figure 5.2**.



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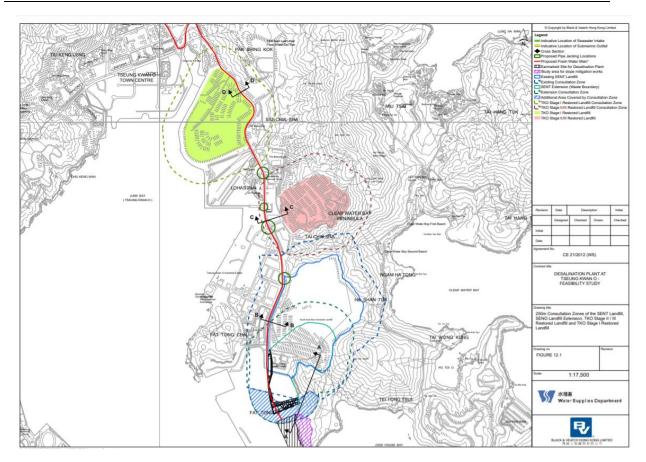


Figure 5.1 Overview of the SENT Extension Consultation Zone and the Contract Site Area

MONITORING PARAMETERS

- 5.7. LFG monitoring was carried out to identify any migration between the landfill and the Contract and to ensure the safety of the construction, operation and maintenance personnel working on-site, visitors and any other person within the Contract area.
- 5.8. The following parameters were monitored:
 - Methane
 - Oxygen
 - Carbon Dioxide
 - Barometric Pressure
- 5.9. Action and Limit Level are provided in **Table 5.1**.

Table 5.1Action and Limit Level for Landfill Gas Monitoring Equip	pment
---	-------

	0 1 1	
Parameters	Action Level	Limit Level
Oxygen (O ₂)	<19% 02	<19% O ₂
Methane (CH ₄)	>10% LEL	>20% LEL
Carbon Dioxide (CO ₂)	>0.5% CO ₂	>1.5% CO ₂

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MONITORING EOUIPMENT

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

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

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

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

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

Table 5.2Landfill Gas Monitoring Equipment

Equipment	Brand and Model	Calibration Expiry Date
Portable Gas Detector	PS500 – 254928	28 September 2022





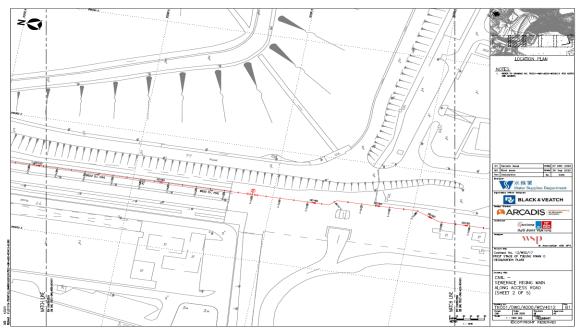


Figure 5.2Location Map for Landfill Gas Monitoring at Wan Po Road

MONITORING RESULTS AND OBSERVATIONS

5.12. In this reporting period, 44 times of landfill gas monitoring was conducted during excavations at 1m depth or more within the consultation zone and whenever workers entered the excavation on the day at Wan Po Road (Ch1+360 – Ch1+513). No exceedance of action and limit levels for methane, oxygen and carbon dioxide was recorded. Detail of landfill gas monitoring results are presented in **Appendix L**



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

6.1. The Environmental Complaint Handling Procedure is shown in below **Figure 6.1**:

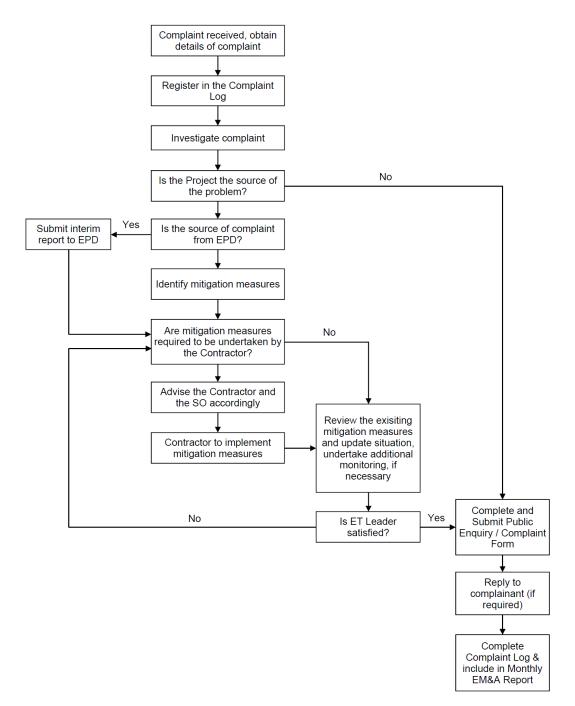


Figure 6.1Environmental Complaint Handling Procedures

6.2. No noise monitoring was conducted during the reporting period since there are no Contract-related construction activities undertaken within a radius of 300m from the monitoring locations.

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- 6.3. General water quality monitoring at the ten monitoring stations (CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36 and WSR37) were conducted on 3, 5, 7, 10, 12, 14, 17, 19, 21, 24, 26, 28 and 31 May 2022.
- 6.4. Nineteen (19) of the general water quality monitoring results of suspended solids (SS) obtained had exceeded the Action Level. Six (6) of the general water quality monitoring results of SS obtained during the reporting period had exceeded the Limit Level. Details of the exceedance are presented in **Appendix O**.
- 6.5. Investigation on the reason of exceedance has been carried out, where the exceedances of SS on 3, 5, 7, 12, 14, 21, 26, 28 and 31 May 2022 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 O**.
- 6.6. In this reporting period, 44times of landfill gas monitoring was conducted at Wan Po Road (Ch1+360 Ch1+513).
- 6.7. No exceedance of action and limit levels for methane, oxygen and carbon dioxide was recorded in the reporting month.
- 6.8. No environmental complaint was received in the reporting period.
- 6.9. No notification of summons and prosecution was received in the reporting period.
- 6.10. Statistics on complaints and regulatory compliance are summarized in **Appendix J**.



7. EM&A SITE INSPECTION

7.1. Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting period, site inspections were carried out on 3, 10, 17, 24 and 31 May 2022 at the site portions listed in **Table 7.1** below.

	-	
Date	Inspected Site Portion	Time
3 May 2022	TKO 137	14:30 - 16:30
10 May 2022	TKO 137	14:30 - 16:30
17 May 2022	TKO 137	14:35 - 15:35
24 May 2022	TKO 137	14:30 - 16:00
31 May 2022	TKO 137	09:10 - 10:30

Table 7.1Summaries of Site Inspection Record

- 7.2. Joint site inspections with IEC were carried out on 3, 10, 17, 24 and 31 May 2022.
- 7.3. Environmental deficiencies were observed during weekly site inspection. Key observations during the site inspections and during the reporting period are summarized in **Table 7.2**.

Date	Environmental Observations	Follow-up Status
3 May 2022	No major observations were recorded on the reporting day.	Nil.
10 May 2022	No major observations were recorded on the reporting day.	Nil.
17 May 2022	Observation:1. Drip tray should be provided for chemical storage and provide label for the chemical. (RO Building)	1. Chemical removed off-site.
24 May 2022	 <u>Observation:</u> 1. The Contractors are reminded to provide drip trays for the oil drums near the power generator near outfall. 	1. Drip tray provided.
31 May 2022	No major observations were recorded on the reporting day.	Nil.

Table 7.2Site Observations

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



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8. FUTURE KEY ISSUES

- 8.1. Works to be undertaken in the next reporting month are:
 - Construction of 132kV adjacent to underground utilities;
 - Construction of Reverse Osmosis (RO) Building staircases and internal finishing;
 - Construction of sludge thickener, Post Treatment Building (PTB);
 - Construction of On-Site Chlorine Generation Building (OSCG Bldg) and CO2 Tank area;
 - Internal finishing work at Product Water Storage Tank (PWST), Main Electrical & Central Chiller Plant Building;
 - Manhole construction and Glass Reinforced Plastic (GRP) pipe installation;
 - Construction of 2/F and 3/F walls and columns of Administration Building;
 - Installation of curtain wall supports of Administration Building;
 - Construction of footings and columns of FT-5, FT-6, FT-7 and FT-8 of inspection corridor;
 - Construction of Stair Tower of inspection corridor;
 - Construction of side tanks no.2, 3 and 4 of ActiDAFF;
 - Construction of manholes no.15 and no.16 adjacent to ActiDAFF and RO;
 - Construction of manhole no.2, no.3 and no.4 adjacent to ActiDAFF;
 - Construction of manholes no.6 and no.7 Glass Reinforced Plastic (GRP) pipe installation;
 - Outfall Shaft Dewatering;
 - Intake shaft retrieval of DN2500 TBM under water;
 - Intake shaft General cleaning for finial inspection;
 - Outfall Tunnel Demobilize the pipe jacking system and grouting;
 - Construction of combined shaft and pump room;
 - Slope works Scaffolding erection for rock mapping and tree survey;
 - Open Channel Trench Excavation and structure installation;
 - E&M works ActiDAFF scaffolding, installation of E&M piping;
 - E&M works RO- installation of fire services, steel pipe, GRP pipe;
 - E&M works CO2 tank area installation of vaporizers;
 - E&M works Chiller Building installation of chillers, electrical system;
 - E&M works Product water Building installation of pluming, air duct and electoral system.

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- 8.2. The major environmental impacts brought by the above construction works will include:
 - Construction dust and noise generation from pipe jacking works, excavation and construction works;
 - Waste generation from construction activities
 - Impact on water quality from marine construction works and inland construction works
- 8.3. The key environmental mitigation measures for the Project in the coming reporting period associated with the above construction works will include:
 - Dust suppression by regular wetting and water spraying for construction works
 - Reduction of noise from equipment and machinery on-site by regular checking of on-site plant/vehicle to ensure proper functioning
 - Sorting and storage of general refuse and construction waste
 - Deployment of temporary silt curtain in the area where marine construction works were conducted and deployment of water sedimentation tanks for treatment of wastewater at inland and marine areas before discharge



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9. CONCLUSIONS AND RECOMMENDATIONS

- 9.1. This is the 27th Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 May to 31 May 2022, in accordance with the EM&A Manual and the requirement under FEP-01/503/2015/A.
- 9.2. No noise monitoring was conducted in the reporting period due to the over distant monitoring station from the works location, in which construction activities were not undertaken within a radius of 300m from the monitoring locations.
- 9.3. The EM&A works for water quality were conducted during the reporting period in accordance with the EM&A Manual.
- 9.4. Nineteen (19) of the general water quality monitoring results of suspended solids (SS) obtained had exceeded the Action Level. Six (6) of the general water quality monitoring results of SS obtained during the reporting period had exceeded the Limit Level. Details of the exceedance are presented in **Appendix O**.
- 9.5. Investigation on the reason of exceedance has been carried out, where the exceedances of SS on 3, 5, 7, 12, 14, 21, 26, 28 and 31 May 2022 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 0**.
- 9.6. It was concluded that all exceedances recorded in the reporting month were unrelated to the project.
- 9.7. In this reporting period, 44 times of landfill gas monitoring was conducted at Wan Po Road (Ch1+360 Ch1+513).
- 9.8. No exceedance of action and limit levels for methane, oxygen and carbon dioxide was recorded in the reporting month.
- 9.9. Weekly environmental site inspection was conducted during the reporting period. No major deficiency was observed during site inspection. The environmental performance of the project was therefore considered satisfactory.
- 9.10. According to the environmental site inspections performed in the reporting month, the Contractor is reminded to pay attention on maintaining proper materials storage, site hygiene and dust suppression mitigation measures.
- 9.11. No environmental complaint was received in the reporting period.
- 9.12. No notification of summons or prosecution was received since commencement of the Contract.
- 9.13. The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.





Appendix A

Construction Programme

iy ID	Activity Name	Baseline Duration	Baseline Start	Baseline Finish	Remaining Duration	Actual / Planned Start	Actual / Planned Finish	Actual % Complete	Variance Finish Date	Total Float	N	Der				Apr		2020 .in Jul
Project Progr	ramme Updated as at 31 January 2022 (Level 2)											Lec	Jai		liviai		viay Ju	
Key Dates																		
	ment and Completion Date																	
KD0000100	Letter of Acceptance	0	15-Nov-19		0	15-Nov-19 A		100%	0		8	Lette	∋rof	Acce	eptan	ce		
<d0000110< td=""><td>Commencement of the Works</td><td>0</td><td>30-Dec-19</td><td></td><td>0</td><td>30-Dec-19 A</td><td></td><td>100%</td><td>0</td><td></td><td></td><td></td><td>\$ c</td><td>omn</td><td>ence</td><td>ment</td><td>of the</td><td>Works</td></d0000110<>	Commencement of the Works	0	30-Dec-19		0	30-Dec-19 A		100%	0				\$ c	omn	ence	ment	of the	Works
<d0000120< td=""><td>Completion of the Works (1170 Days)</td><td>0</td><td></td><td>13-Mar-23</td><td>0</td><td></td><td>13-Mar-23</td><td>0%</td><td>0</td><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></d0000120<>	Completion of the Works (1170 Days)	0		13-Mar-23	0		13-Mar-23	0%	0	0								
KD0000130	Revised Completion of the Works (183 Days EOT Granted)	0			183	14-Mar-23	12-Sep-23	0%		0								
KD0000510	Planned Completion of the Works	0			0		30-Sep-23	0%		-18								
KD0000520	Target Completion of the Works (Best Endeavour)	0			0		02-Jul-23	0%		72								
xecutive Su																		
Preliminary												 						
ES0001000	Mobilization and Preliminary Set Up	191	30-Dec-19	07-Jul-20	0	30-Dec-19 A	20-Jul-20 A	100%	-13				=	-				
Civil Design	AIP and DDA																	
· · · · · · · · · · · · · · · · · · ·	AIP Civil Design Submission and Approval	330	30-Dec-19	23-Nov-20	0	30-Dec-19 A	31-Aug-20 A	100%	84				=	-	-			
ES0001020	DDA Civil Design Submission and Approval	414	28-Feb-20	16-Apr-21	0	22-Jan-20 A	01-Sep-21 A	100%	-138			-	1	_	-			
18E Decign	AIP and DDA																	
ES0002000	M&E AIP Process Mechanical Submission and Approval	477	30-Dec-19	19-Apr-21	0	30-Dec-19 A	22-Dec-20 A	100%	118				-	-	-			
ES0002010	M&E DDA Process Mechanical Submission and Approval	679	08-Feb-20	17-Dec-21	0	21-Jul-20 A	02-Sep-21 A	100%	106								8	
ES0002020	M&E AIP Instrumentation & Control Submission and Approval	607	31-Jan-20	28-Sep-21	0	04-Feb-20 A	25-Feb-20 A	100%	581			-						
ES0002030	M&E DDA Instrumentation & Control Submission and	514	22-Jul-20	17-Dec-21	97	13-Feb-21 A	08-May-22	65%	-142	172								
	Approval									172								
ES0002050	M&E DDA Electrical and Renewable Energy Submission and Approval	382	16-Aug-20	01-Sep-21	0	17-Aug-20 A	31-Dec-20 A	100%	244									
ES0002060	M&E AIP Building Services Submission and Approval	226	30-Dec-19	11-Aug-20	0	30-Dec-19 A	30-Oct-20 A	100%	-80						1 1 1	1 1 1 1 1 1		
ES0002065	M&E Design Basis & Civil Guidance Dwg	112	30-Dec-19	19-Apr-20	0	30-Dec-19 A	24-Jul-20 A	100%	-96				-					
ES0002070	M&E DDA Building Services Submission and Approval	306	28-Feb-20	29-Dec-20	0	01-Mar-20 A	30-Jun-21 A	100%	-183									
ES0002085	M&E AIP Site Electrical Submission and Approval	155	09-Jun-20	10-Nov-20	0	21-Mar-20 A	22-Jul-20 A	100%	111									
ES0002090	M&E DDA Lift Submission and Approval	140	27-Aug-20	13-Jan-21	0	01-Oct-20 A	12-May-21 A	100%	-119							· · · · · ·		
ES0002095	M&E DDA Site Electrical Submission and Approval	140	11-Nov-20	30-Mar-21	0	23-Jul-20 A	04-Jun-21 A	100%	-66									
ES0002100	M&E DDA T&C Design Submission and Approval	155	29-Mar-22	30-Aug-22	35	01-Aug-21 A	07-Mar-22	75%	176	220								
Procuremen	t of Major Plant & Equipment Schedule																	
ES0002320	M&E Procurement of Major Plant, Equipment, Material and	901	14-Mar-20	31-Aug-22	184	04-Feb-20 A	03-Aug-22	73%	28	83				-	:			
ES2420	Delivery M&E Procurement of Mechanical Equipment - Intake Pumps	595	18-May-20	02-Jan-22	133	04-Feb-20A	13-Jun-22	70%	-162	15		 		-				
ES2430	M&E Procurement of Mechanical Equipment - ActiDAFF	333	30-Oct-20	27-Sep-21	32	02-Aug-20 A	04-Mar-22	90%	-158	79		-						
ES2440	Underdrain M&E Procurement of Mechanical Equipment - ActiDAFF	298	15-Mar-21	06-Jan-22	139	23-Jul-20 A	19-Jun-22	50%	-164	126		-						
ES2450	Media		22-Feb-21						-36	120		-						
	M&E Procurement of Mechanical Equipment - RO and ERD Rack	274		22-Nov-21	0	22-Jul-20 A	28-Dec-21 A	100%						_				
ES2460	M&E Procurement of Mechanical Equipment - RO Membrane	755	29-Mar-20	22-Apr-22	225	12-Feb-20 A	13-Sep-22	62%	-144	161		- - - -						
ES2470	M&E Procurement of Electrical Equipment - CLP Substation for LV Switchboard / Genset / Building Services	300	14-Mar-20	07-Jan-21	0	14-Mar-20 A	28-Feb-21 A	100%	-52									
132kV Subs	tation																	
ES0001460	Excavation and Formation Works for 132kV Substation	15	16-Mar-20	30-Mar-20	0	19-Feb-20A	23-Apr-20 A	100%	-24								Excav	ation a
ES0001470	Construction of 132kV Substation	233	31-Mar-20	18-Nov-20	0	27-Apr-20 A	30-Dec-20 A	100%	-42			-						
ES0001480	Architectural Finishes for 132kV Substation	126	11-Sep-20	14-Jan-21	0	23-Nov-20 A	22-Mar-21 A	100%	-67			-						
ES0002240	M&E Installation of 132kV Substation	93	20-Nov-20	20-Feb-21	0	01-Dec-20 A	22-Mar-21 A	100%	-30			 		- +				
Combine Sh																		
compline 5h	iait iait	257	27-Mar-20	08-Dec-20	0	02-May-20 A	30-Jun-21 A	100%	-204	-		1				: :		

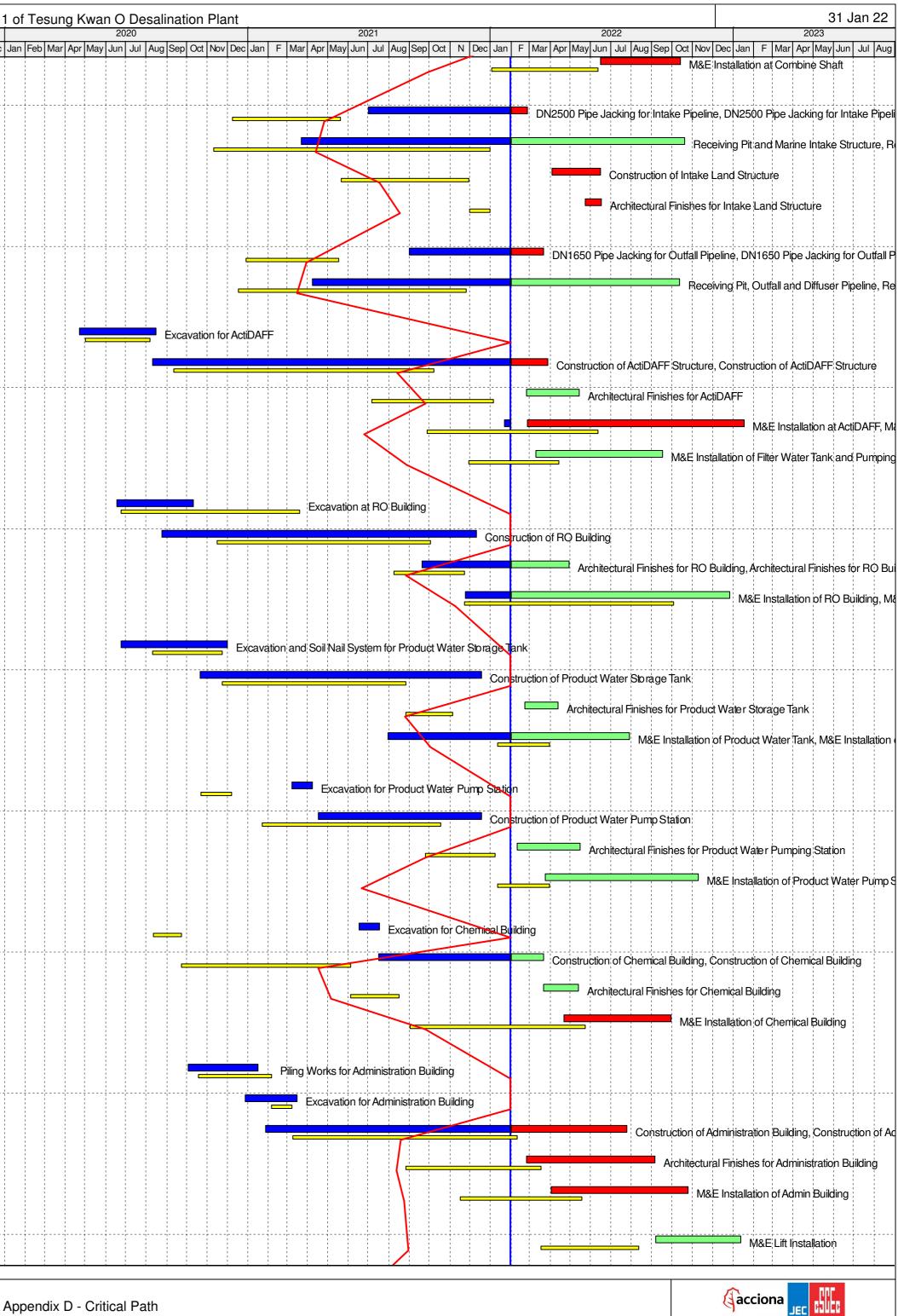
Summary Bar	Actual Work 💠	♦ Target Milestone	Page 1 of 4
Actual Level of Effort	Early Bar 🔶	♦ Milestone	
Target Bar	Critical Bar		

			Stage	e 1 of Tesung Kwan O Desalination Plant						Ja	n 22
Actual % Complete	Variance Finish Date	Total Float	N Dec	2020 2021 2022 lec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan F Mar Apr Mar	c Jan	F	Mar	202 Apr N		un J	Jul Aug
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100%	0			S Commencement of the Works							
0%	0	0					\$(Comp	letion	ı of th	ne Worl
0%		0					-		_		
0%		-18									
0%		72								•	Target
100%	-13			Mobilization and Preliminary Set Up							
100%	84										
				AIP Civil Design Submission and Approval							
100%	-138			DDA Civil Design Supmission and Approval							
100%	118			M&E AIP Process Mechanical Submission and Approval							
100%	106			M&E DDA Process Mechanical Submission and Apr	vrdval						
					iyvai						
100%	581			M&EAIP Instrumentation & Control Submission and Approval							
65%	-142	172		M&E DDA Instrumentation & Co	ontrol	Subr	nissi	on an	d Apr	orova	ıl, M&E
100%	244			M&E DDA Electrical and Renewable Energy Submission and Appro	val						
100%	-80			M&E AIP Building Services Submission and Approval							
100%	-96			M&E Design Basis & Civil Guidance Dwg							
100%	-183			M&E DDA Building Services Submission and Approval							
100%	111			M&E AIP Site Electrical Submission and Approval							
100%	-119			M&E DDA Lift Submission and Approval							
100%	-66			M&E DDA Site Electrical Submission and Approval							
75%	176	220) Desi	an S	Subm	hissior	1 and	Appr	roval, N
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70%	-162	15		M&E Procurement of Mec	hanic	al Eq	j uipn	hent -	Intak	e Pu	mps, M
90%	-158	79		M&E Procurement of Mechanical Equipn	nent-J	ActiD	AFF	Unde	erdrai	in, Mi	&E Pro
50%	-164	126		M&E Procurement of Me	chanir	al E	quip	ment	- Actil	DAFF	- Media
100%	-36			M&E Procurement of Mechanical Equipment - RO							
62%	-144	161		M&E Procur					l Fau	inme	nt - BC
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100%	-24			Excavation and Formation Works for 132kV Substation							
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100%	-67			Architectural Finishes for 132kV Substation							
	-30										
100%	-30			M&E Installation of 132kV Substation							
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butFall ES0001090 DN ES0001100 Rec CtiDAFF ES0001140 ES0001150 Cor ES0001150 Cor ES0001160 Arc ES0002130 M& ES0002140 M& ES0001170 Exc ES0001180 Cor ES0001190 Arc ES0001190 Arc ES0001180 Cor ES0001250 M& FS0001250 Cor ES0001240 Exc ES0001240 Arc ES0001240 Arc ES0001240 Exc ES0001240 Exc ES0001240 Exc ES0001240 Arc ES0001260 Arc ES0001260 Arc ES0002210 M&	A1650 Pipe Jacking for Outfall Pipeline ecciving Pit, Outfall and Diffuser Pipeline cavation for ActiDAFF onstruction of ActiDAFF Structure chitectural Finishes for ActiDAFF & Installation at ActiDAFF & Installation at ActiDAFF & Installation of Filter Water Tank and Pumping Station sis Building cavation at RO Building onstruction of RO Building chitectural Finishes for RO Building chitectural Finishes for RO Building Storage Tank cavation and Soil Nail System for Product Water Storage nk	140 343 97 393 183 257 137 270 321 106 315	29-Dec-20 18-Dec-20 02-May-20 11-Sep-20 07-Jul-21 28-Sep-21 29-Nov-21 29-Nov-21 16-Nov-20 09-Aug-21 23-Nov-21	17-May-21 25-Nov-21 06-Aug-20 08-Oct-21 05-Jan-22 11-Jun-22 14-Apr-22 20-Mar-21 02-Oct-21 22-Nov-21	49 254 0 56 80 327 192 0 0 88	01-Sep-21 A 08-Apr-21 A 22-Apr-20 A 10-Aug-20 A 24-Feb-22 22-Jan-22 A 10-Mar-22 18-Jun-20 A 25-Aug-20 A 20-Sep-21 A	21-Mar-22 12-Oct-22 15-Aug-20 A 28-Mar-22 14-May-22 17-Jan-23 17-Sep-22 10-Oct-20 A 11-Dec-21 A	75% 55% 100% 98% 0% 1% 0% 100%	-308 -321 -9 -171 -129 -220 -156 161 -70	-18 10 -13 13 -13 20
ES0001090 DN ES0001100 Red CtiDAFF ES0001140 ES0001150 Cor ES0001150 Cor ES0001160 Arc ES0002130 M& ES0002140 M& ES0001170 Exc ES0001180 Cor ES0001190 Arc ES0001190 Arc ES0001190 Arc ES0001250 M& FS0001240 Exc ES0001240 Cor ES0001240 Arc ES0001240 Exc ES0001240 Exc ES0001240 Exc ES0001240 Exc ES0001240 Exc ES0001260 Arc ES0001260 Arc ES0002210 M& FODUCT Water F	eceiving Pit, Outfall and Diffuser Pipeline cavation for ActiDAFF onstruction of ActiDAFF Structure chitectural Finishes for ActiDAFF & Installation at ActiDAFF & Installation of Filter Water Tank and Pumping Station sis Building cavation at RO Building chitectural Finishes for RO Building	343 97 393 183 257 137 270 321 106 315	18-Dec-20 18-Dec-20 02-May-20 11-Sep-20 07-Jul-21 28-Sep-21 29-Nov-21 29-Nov-21 09-Aug-21 23-Nov-21	25-Nov-21 06-Aug-20 08-Oct-21 05-Jan-22 11-Jun-22 14-Apr-22 20-Mar-21 02-Oct-21 22-Nov-21	254 0 56 80 327 192 0 0 88	08-Apr-21 A 22-Apr-20 A 10-Aug-20 A 24-Feb-22 22-Jan-22 A 10-Mar-22 10-Mar-22 18-Jun-20 A 25-Aug-20 A 20-Sep-21 A	12-Oct-22 15-Aug-20 A 28-Mar-22 14-May-22 17-Jan-23 17-Sep-22 10-Oct-20 A 11-Dec-21 A	55% 100% 98% 0% 1% 0% 100%	-321 -9 -171 -129 -220 -156 161 -70	10 -13 -13 -13 20
ES0001100 Red CtiDAFF ES0001140 ES0001150 Cor ES0001150 Arc ES0001160 Arc ES0002130 M& ES0002140 M& ES0002140 M& ES0002140 M& ES0001170 Exc ES0001170 Exc ES0001190 Arc ES0001190 Arc ES00012150 M& roduct Water S ES0001240 ES0001250 Cor ES0001260 Arc ES0001260 Arc ES0001260 Arc ES0001260 Arc ES0001260 Arc ES0001260 Arc	eceiving Pit, Outfall and Diffuser Pipeline cavation for ActiDAFF onstruction of ActiDAFF Structure chitectural Finishes for ActiDAFF & Installation at ActiDAFF & Installation of Filter Water Tank and Pumping Station sis Building cavation at RO Building chitectural Finishes for RO Building	343 97 393 183 257 137 270 321 106 315	18-Dec-20 18-Dec-20 02-May-20 11-Sep-20 07-Jul-21 28-Sep-21 29-Nov-21 29-Nov-21 09-Aug-21 23-Nov-21	25-Nov-21 06-Aug-20 08-Oct-21 05-Jan-22 11-Jun-22 14-Apr-22 20-Mar-21 02-Oct-21 22-Nov-21	254 0 56 80 327 192 0 0 88	08-Apr-21 A 22-Apr-20 A 10-Aug-20 A 24-Feb-22 22-Jan-22 A 10-Mar-22 10-Mar-22 18-Jun-20 A 25-Aug-20 A 20-Sep-21 A	12-Oct-22 15-Aug-20 A 28-Mar-22 14-May-22 17-Jan-23 17-Sep-22 10-Oct-20 A 11-Dec-21 A	55% 100% 98% 0% 1% 0% 100%	-321 -9 -171 -129 -220 -156 161 -70	10 -13 -13 -13 20
ctiDAFF S0001140 Exc S0001150 Cor S0001160 Arc S0002130 M& S0002140 M& S0002140 M& S0002140 M& S0002140 M& S0002140 M& S0001170 Exc S0001180 Cor S0001190 Arc S0001190 Arc S00012150 M& S0001240 Exc S0001240 Cor S0001240 Arc S0001240 Arc S0001260 Arc S0001260 Arc S0001260 M& S0002210 M&	cavation for ActiDAFF onstruction of ActiDAFF Structure chitectural Finishes for ActiDAFF & Installation at ActiDAFF & Installation of Filter Water Tank and Pumping Station sis Building cavation at RO Building onstruction of RO Building chitectural Finishes for RO Building & Installation of RO Building Storage Tank cavation and Soil Nail System for Product Water Storage nk	97 393 183 257 137 270 321 106 315	02-May-20 11-Sep-20 07-Jul-21 28-Sep-21 29-Nov-21 24-Jun-20 16-Nov-20 09-Aug-21 23-Nov-21	06-Aug-20 08-Oct-21 05-Jan-22 11-Jun-22 14-Apr-22 20-Mar-21 02-Oct-21 22-Nov-21	0 56 80 327 192 0 0 88	22-Apr-20 A 10-Aug-20 A 24-Feb-22 22-Jan-22 A 10-Mar-22 18-Jun-20 A 25-Aug-20 A 20-Sep-21 A	15-Aug-20 A 28-Mar-22 14-May-22 17-Jan-23 17-Sep-22 10-Oct-20 A 11-Dec-21 A	100% 98% 0% 1% 0% 100%	-9 -171 -129 -220 -156 161 -70	-13 13 -13 20
ES0001140 Exc ES0001150 Cor ES0001160 Arc ES0002130 M& ES0002140 M& ES0002140 M& ES0002140 M& ES0001170 Exc ES0001170 Exc ES0001180 Cor ES0001190 Arc ES0001190 Cor ES00012150 M& FODUCT Water S ES0001240 ES0001250 Cor ES0001260 Arc ES0001260 M& ES0001260 M& ES0002210 M&	enstruction of ActiDAFF Structure chitectural Finishes for ActiDAFF & Installation at ActiDAFF & Installation of Filter Water Tank and Pumping Station sis Building cavation at RO Building onstruction of RO Building chitectural Finishes for RO Building & Installation of RO Building Storage Tank cavation and Soil Nail System for Product Water Storage nk	393 183 257 137 270 321 106 315	11-Sep-20 07-Jul-21 28-Sep-21 29-Nov-21 24-Jun-20 16-Nov-20 09-Aug-21 23-Nov-21	08-Oct-21 05-Jan-22 11-Jun-22 14-Apr-22 20-Mar-21 02-Oct-21 22-Nov-21	56 80 327 192 0 0 88	10-Aug-20 A 24-Feb-22 22-Jan-22 A 10-Mar-22 18-Jun-20 A 25-Aug-20 A 20-Sep-21 A	28-Mar-22 14-May-22 17-Jan-23 17-Sep-22 10-Oct-20 A 11-Dec-21 A	98% 0% 1% 0% 100%	-171 -129 -220 -156 161 -70	13 -13 20
ES0001160 Arcl ES0002130 M& ES0002140 M& ES0002140 M& ES0002140 M& ES0001170 Exc ES0001170 Exc ES0001180 Cor ES0001190 Arcl ES0001190 Arcl ES0001190 Cor ES00012150 M& ES0001240 Exc ES0001240 Exc ES0001250 Cor ES0001260 Arcl ES0001260 M& ES0002210 M& ES0002210 M&	chitectural Finishes for ActiDAFF & Installation at ActiDAFF & Installation of Filter Water Tank and Pumping Station sis Building cavation at RO Building onstruction of RO Building chitectural Finishes for RO Building & Installation of RO Building Storage Tank cavation and Soil Nail System for Product Water Storage nk	183 257 137 270 321 106 315	07-Jul-21 28-Sep-21 29-Nov-21 24-Jun-20 16-Nov-20 09-Aug-21 23-Nov-21	05-Jan-22 11-Jun-22 14-Apr-22 20-Mar-21 02-Oct-21 22-Nov-21	80 327 192 0 0 88	24-Feb-22 22-Jan-22 A 10-Mar-22 18-Jun-20 A 25-Aug-20 A 20-Sep-21 A	14-May-22 17-Jan-23 17-Sep-22 10-Oct-20 A 11-Dec-21 A	0% 1% 0% 100% 100%	-129 -220 -156 161 -70	13 -13 20
ES0002130 M& ES0002140 M& ES0002140 M& everse Osmos SO ES0001170 Exc ES0001180 Cor ES0001190 Arc ES0001190 M& FODUCT Water S SO ES0001240 Exc ES0001250 Cor ES0001260 Arc ES0001260 Arc ES0001260 M& ES0002210 M&	 AE Installation at ActiDAFF AE Installation of Filter Water Tank and Pumping Station asis Building cavation at RO Building construction of RO Building chitectural Finishes for RO Building AE Installation of RO Building Storage Tank cavation and Soil Nail System for Product Water Storage nk 	257 137 270 321 106 315	28-Sep-21 29-Nov-21 24-Jun-20 16-Nov-20 09-Aug-21 23-Nov-21	11-Jun-22 14-Apr-22 20-Mar-21 02-Oct-21 22-Nov-21	327 192 0 0 88	22-Jan-22 A 10-Mar-22 18-Jun-20 A 25-Aug-20 A 20-Sep-21 A	17-Jan-23 17-Sep-22 10-Oct-20 A 11-Dec-21 A	1% 0% 100% 100%	-220 -156 161 -70	-13 20
ES0002140 M& everse Osmos S ES0001170 Exc ES0001180 Cor ES0001190 Arc ES0002150 M& roduct Water S S ES0001240 Exc ES0001240 Exc ES0001240 Exc ES0001240 Exc ES0001240 Exc ES0001250 Cor ES0001260 Arc ES0001260 M& ES0002210 M&	AE Installation of Filter Water Tank and Pumping Station sis Building cavation at RO Building onstruction of RO Building chitectural Finishes for RO Building AE Installation of RO Building Storage Tank cavation and Soil Nail System for Product Water Storage nk	137 270 321 106 315	29-Nov-21 24-Jun-20 16-Nov-20 09-Aug-21 23-Nov-21	14-Apr-22 20-Mar-21 02-Oct-21 22-Nov-21	192 0 0 88	10-Mar-22 18-Jun-20 A 25-Aug-20 A 20-Sep-21 A	17-Sep-22 10-Oct-20 A 11-Dec-21 A	0% 100% 100%	-156 161 -70	20
everse Osmos S0001170 Exc S0001180 Cor S0001190 Arc S0002150 M& roduct Water S S0001240 S0001250 Cor S0001260 Arc S0001260 Arc S0001260 M& S0001260 M& S0001260 M& S0001260 M& S0001260 M&	sis Building cavation at RO Building onstruction of RO Building chitectural Finishes for RO Building & Installation of RO Building Storage Tank cavation and Soil Nail System for Product Water Storage nk	270 321 106 315	24-Jun-20 16-Nov-20 09-Aug-21 23-Nov-21	20-Mar-21 02-Oct-21 22-Nov-21	0 0 88	18-Jun-20 A 25-Aug-20 A 20-Sep-21 A	10-Oct-20 A 11-Dec-21 A	100%	161 -70	
ES0001170 Exc ES0001180 Cor ES0001190 Arc ES0002150 M& roduct Water S S0001240 ES0001250 Cor ES0001260 Arc ES0001260 Arc ES0001260 M& ES0001260 M& ES0001260 M& ES0001260 M& ES0001260 M&	cavation at RO Building onstruction of RO Building chitectural Finishes for RO Building &E Installation of RO Building Storage Tank cavation and Soil Nail System for Product Water Storage nk	321 106 315	16-Nov-20 09-Aug-21 23-Nov-21	02-Oct-21 22-Nov-21	0	25-Aug-20 A 20-Sep-21 A	11-Dec-21 A	100%	-70	49
ES0001180 Cor ES0001190 Arcl ES0002150 M& roduct Water S S0001240 ES0001250 Cor ES0001260 Arcl ES0001260 Arcl ES0001260 Arcl ES0001260 M& ES0002210 M& ES0002210 M&	onstruction of RO Building chitectural Finishes for RO Building &E Installation of RO Building Storage Tank cavation and Soil Nail System for Product Water Storage nk	321 106 315	16-Nov-20 09-Aug-21 23-Nov-21	02-Oct-21 22-Nov-21	0	25-Aug-20 A 20-Sep-21 A	11-Dec-21 A	100%	-70	49
S0001190 Arcl S0002150 M& roduct Water S S0001240 S0001240 Exc S0001250 Cor S0001260 Arcl S0001260 M& S0001260 M& S0001260 M& S0001260 M& S0001260 M&	chitectural Finishes for RO Building &E Installation of RO Building Storage Tank cavation and Soil Nail System for Product Water Storage nk	106 315	09-Aug-21 23-Nov-21	22-Nov-21	88	20-Sep-21 A				49
ES0002150 M& roduct Water S ES0001240 Exc Tan ES0001250 Cor ES0001260 Arc ES0002210 M& roduct Water P	&E Installation of RO Building Storage Tank cavation and Soil Nail System for Product Water Storage nk	315	23-Nov-21			·	29-Apr-22	45%	-158	49
roduct Water S S0001240 Exc Tan S0001250 Cor S0001260 Arc S0002210 M& roduct Water P	Storage Tank cavation and Soil Nail System for Product Water Storage nk			03-Oct-22	329	24-Nov-21 A	1			
S0001240 Exc Tan S0001250 Cor S0001260 Arc S0002210 M& roduct Water P P	cavation and Soil Nail System for Product Water Storage nk	106	10-400-20				26-Dec-22	12.7%	-84	9
Tan S0001250 Cor S0001260 Arcl S0002210 M& roduct Water P P	nk	106		00 Nov 00	0	0.4 km 00 A	01-Dec-20 A	1000/		
S0001260 Arc S0002210 M& roduct Water P		070		23-Nov-20	0	24-Jun-20 A		100%	-8	
S0002210 M&	-	276	24-Nov-20	26-Aug-21	0	21-Oct-20 A	18-Dec-21 A	100%	-114	
roduct Water P	chitectural Finishes for Product Water Storage Tank	70	27-Aug-21	04-Nov-21	50	22-Feb-22	12-Apr-22	0%	-159	25
	E Installation of Product Water Tank	78	12-Jan-22	30-Mar-22	179	31-Jul-21 A	29-Jul-22	30%	-121	103
	Pumping Station cavation for Product Water Pump Station	47	22-Oct-20	07-Dec-20	0	08-Mar-21 A	07-Apr-21 A	100%	-121	
S0001280 Cor	Instruction of Product Water Pump Station	270	22-Jan-21	18-Oct-21	0	17-Apr-21 A	18-Dec-21 A	100%	-61	
S0001290 Arc	chitectural Finishes for Product Water Pumping Station	106	25-Sep-21	08-Jan-22	96	10-Feb-22	16-May-22	0%	-128	32
S0002215 M&	&E Installation of Product Water Pump Station	78	12-Jan-22	30-Mar-22	230	25-Mar-22	09-Nov-22	0%	-224	1
hemical Buildi	ing									
	cavation for Chemical Building	42	12-Aug-20	22-Sep-20	0	17-Jun-21 A	17-Jul-21 A	100%	-298	
S0001310 Cor	onstruction of Chemical Building	255	23-Sep-20	04-Jun-21	49	17-Jul-21 A	21-Mar-22	80%	-290	2
S0001320 Arc	chitectural Finishes for Chemical Building	73	05-Jun-21	16-Aug-21	53	22-Mar-22	13-May-22	0%	-270	5
S0002220 M&	&E Installation of Chemical Building	264	02-Sep-21	23-May-22	162	21-Apr-22	29-Sep-22	0%	-129	0
		440	40.0.100					1000		
	ing Works for Administration Building	110	19-Oct-20	05-Feb-21	0	03-Oct-20 A	16-Jan-21 A	100%	20	
	cavation for Administration Building	31	06-Feb-21	08-Mar-21	0	28-Dec-20 A	15-Mar-21 A	100%	-7	
	onstruction of Administration Building	339	09-Mar-21	10-Feb-22	175	28-Jan-21 A	25-Jul-22	60%	-165	0
	chitectural Finishes for Administration Building	204	26-Aug-21	17-Mar-22	194	24-Feb-22	05-Sep-22	0%	-172	0
	E Installation of Admin Building	184	16-Nov-21	18-May-22	207	02-Apr-22	25-Oct-22	0%	-160	-13
uilding Service S0002270 M&			18-Mar-22	11-Aug-22						

📃 🛛 Actual Work 💠 Milestone Critical Bar

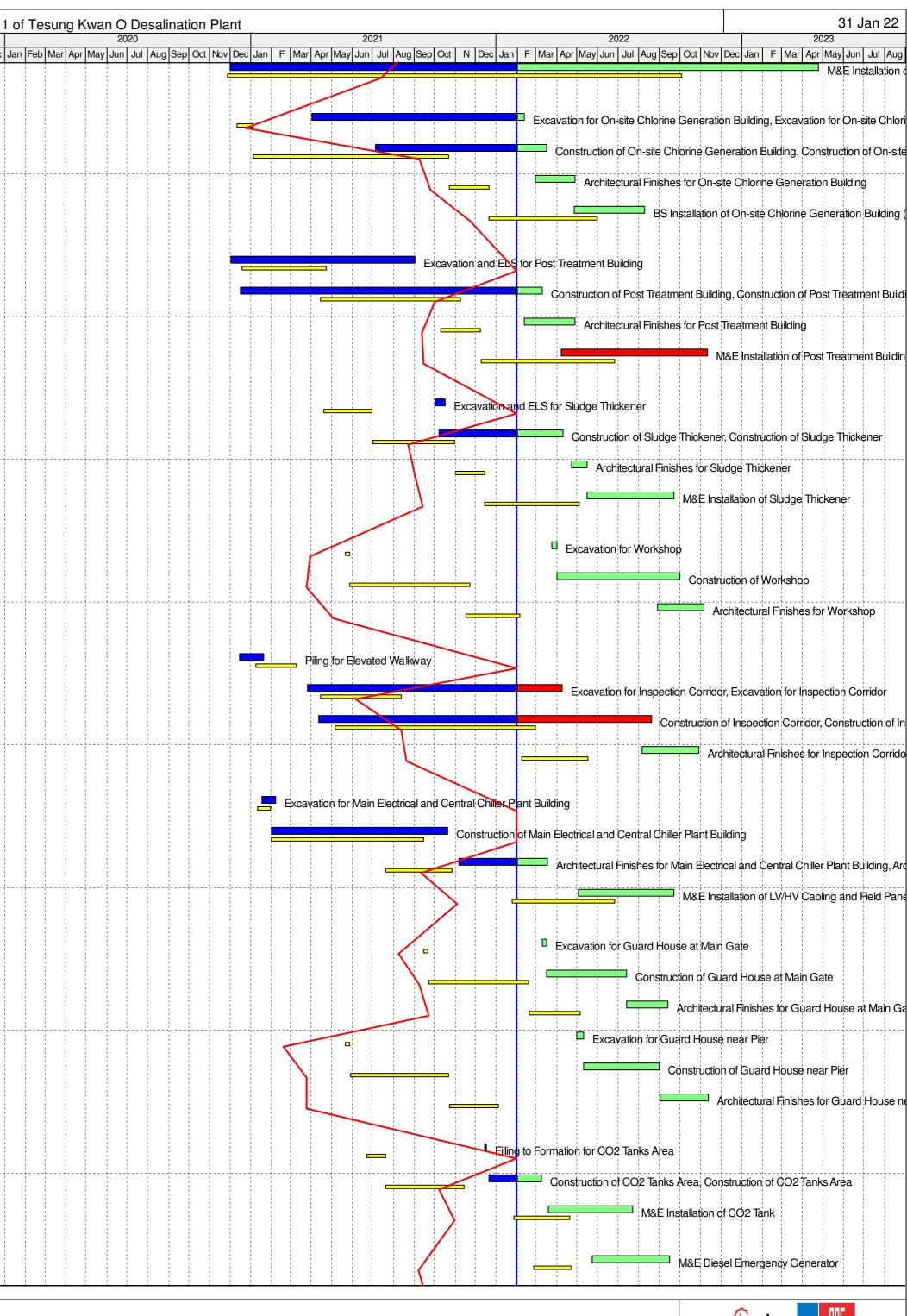


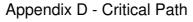
AJC JOINT VENTURE

D	Activity Name	Baseline Duration	Baseline Start	Baseline Finish	Remaining Duration	Actual / Planned Start	Actual / Planne Finish	d Actual % Complete	Variance Finish Date	Total Float
S0002280	M&E Installation of Building Services	676	27-Nov-20	03-Oct-22	448	01-Dec-20 A	24-Apr-23	11%	-203	11
SCG Build	ling									
S0001400	Excavation for On-site Chlorine Generation Building	25	11-Dec-20	04-Jan-21	11	01-Apr-21 A	11-Feb-22	98%	-403	19
S0001410	Construction of On-site Chlorine Generation Building	291	05-Jan-21	22-Oct-21	44	05-Jul-21 A	16-Mar-22	70%	-145	19
S0001420	Architectural Finishes for On-site Chlorine Generation Building	59	23-Oct-21	20-Dec-21	60	28-Feb-22	28-Apr-22	0%	-129	44
S0002200	BS Installation of On-site Chlorine Generation Building (DG inspection)	162	21-Dec-21	31-May-22	106	26-Apr-22	09-Aug-22	0%	-70	18
	ent Building	400	10 5 00			00 D 00 A		4000	101	
S0001210	Excavation and ELS for Post Treatment Building	126	19-Dec-20	23-Apr-21	0	03-Dec-20 A	01-Sep-21 A	100%	-131	
S0001220	Construction of Post Treatment Building	209	14-Apr-21	08-Nov-21	38	17-Dec-20 A	10-Mar-22	90%	-122	46
S0001230	Architectural Finishes for Post Treatment Building	59	11-Oct-21	08-Dec-21	77	11-Feb-22	28-Apr-22	0%	-141	34
S0002180	M&E Installation of Post Treatment Building	199	09-Dec-21	25-Jun-22	217	08-Apr-22	10-Nov-22	0%	-138	0
ludge Thic S0001680	ckener Excavation and ELS for Sludge Thickener	73	19-Apr-21	30-Jun-21	0	02-Oct-21 A	16-Oct-21 A	100%	-108	
S0001690	Construction of Sludge Thickener	121	02-Jul-21	30-Oct-21	68	08-Oct-21 A	09-Apr-22	38%	-161	4
S0001700		44	01-Nov-21	14-Dec-21	23				-152	50
S0001700	Architectural Finishes for Sludge Thickener M&E Installation of Sludge Thickener	141	15-Dec-21	04-May-22	129	23-Apr-22 16-May-22	15-May-22 21-Sep-22	0%	-132	50
/orkshop S0001560	Excavation for Workshop	7	21-May-21	27-May-21	7	25-Mar-22	31-Mar-22	0%	-308	1
S0001570	Construction of Workshop	179	28-May-21	22-Nov-21	183	01-Apr-22	30-Sep-22	0%	-312	3
S0001580	Architectural Finishes for Workshop	81	17-Nov-21	05-Feb-22	69	29-Aug-22	05-Nov-22	0%	-273	2
spection (Corridor									
S0001590	Piling for Elevated Walkway	60	09-Jan-21	09-Mar-21	0	15-Dec-20 A	19-Jan-21 A	100%	49	
S0001600	Excavation for Inspection Corridor	121	14-Apr-21	12-Aug-21	67	26-Mar-21 A	08-Apr-22	60%	-239	-14
S0001610	Construction of Inspection Corridor	299	06-May-21	28-Feb-22	200	12-Apr-21 A	19-Aug-22	33%	-172	-15
S0001620	Architectural Finishes for Inspection Corridor	99	08-Feb-22	17-May-22	85	05-Aug-22	28-Oct-22	0%	-164	8
	cal and Central Chiller Plant Building									
S0001430	Excavation for Main Electrical and Central Chiller Plant Building	20	11-Jan-21	30-Jan-21	0	18-Jan-21 A	06-Feb-21 A	100%	-7	
S0001440	Construction of Main Electrical and Central Chiller Plant Building	227	01-Feb-21	15-Sep-21	0	01-Feb-21 A	20-Oct-21 A	100%	-35	
S0001450	Architectural Finishes for Main Electrical and Central Chiller Plant Building	99	20-Jul-21	26-Oct-21	46	06-Nov-21 A	18-Mar-22	18%	-143	3
S0002260	M&E Installation of LV/HV Cabling and Field Panels	152	25-Jan-22	25-Jun-22	143	03-May-22	22-Sep-22	0%	-89	14
uard Hous S0001490	se Excavation for Guard House at Main Gate	7	15-Sep-21	21-Sep-21	7	10-Mar-22	16-Mar-22	0%	-176	22
S0001500	Construction of Guard House at Main Gate	149	23-Sep-21	18-Feb-22	119	17-Mar-22	13-Jul-22	0%	-145	21
			· ·							
S0001510	Architectural Finishes for Guard House at Main Gate	76	19-Feb-22	05-May-22	62	14-Jul-22	13-Sep-22	0%	-131	30
S0001520	Excavation for Guard House near Pier	8	21-May-21	28-May-21	11	30-Apr-22	10-May-22	0%	-347	4
S0001530	Construction of Guard House near Pier	147	29-May-21	22-Oct-21	113	11-May-22	31-Aug-22	0%	-313	5
S0001540	Architectural Finishes for Guard House near Pier	74	23-Oct-21	04-Jan-22	73	01-Sep-22	12-Nov-22	0%	-312	139
<mark>02 Tank</mark> S0001370	Filling to Formation for CO2 Tanks Area	29	22-Jun-21	20-Jul-21	0	14-Dec-21 A	17-Dec-21 A	100%	-150	
S0001380	Construction of CO2 Tanks Area	116	21-Jul-21	13-Nov-21	36	21-Dec-21 A	08-Mar-22	60%	-115	109
S0002170	M&E Installation of CO2 Tank	84	27-Jan-22	20-Apr-22	126	19-Mar-22	22-Jul-22	0%		155
incol Emor	rgency Generator									
ESET Emer S0002250	M&E Diesel Emergency Generator	57	25-Feb-22	22-Apr-22	115	24-May-22	15-Sep-22	0%	-146	14
										<u> </u>

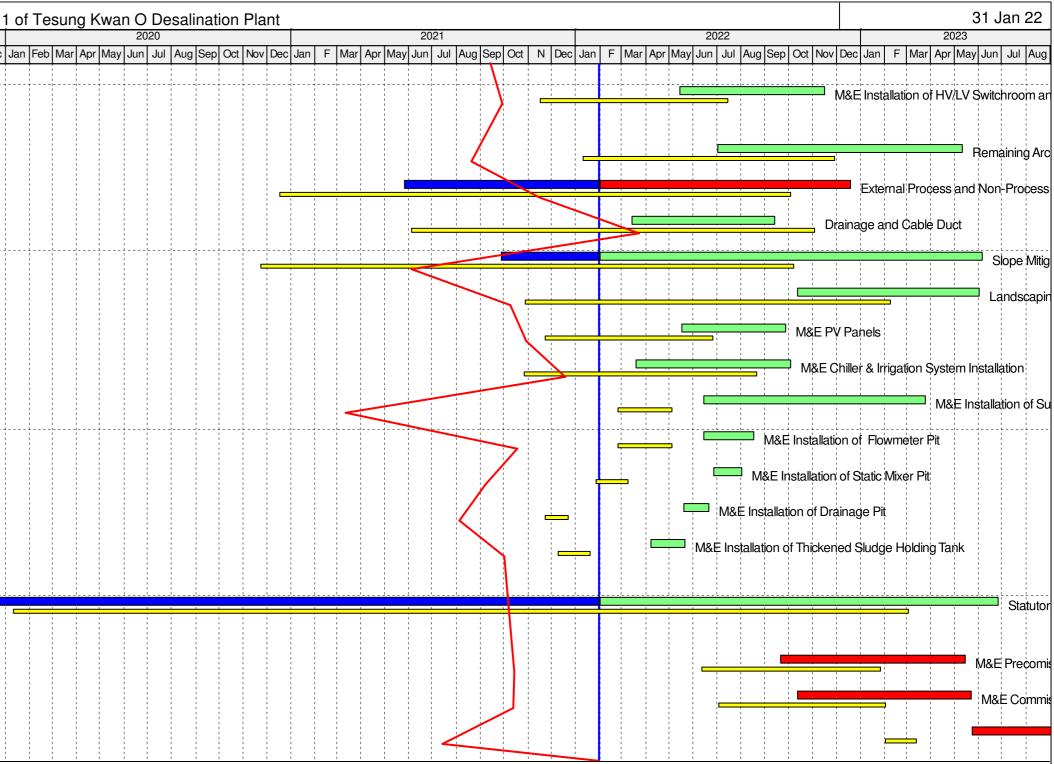
Critical Bar

Target Bar





y ID	Activity Name	Baseline Duration	Baseline Start	Baseline Finish	Remaining Duration	Actual / Planned Start	Actual / Planned Finish	Actual % Complete	Variance Finish Date	Total Float
Switch Roo	m and Transformer Installation									
ES0002300	M&E Installation of HV/LV Switchroom and Transformer	242	16-Nov-21	15-Jul-22	187	14-May-22	16-Nov-22	0%	-124	110
Miscellaneo										
ES0001630	Remaining Architectural Finishes for All Buildings	322	11-Jan-22	28-Nov-22	314	02-Jul-22	11-May-23	0%	-164	36
ES0001640	External Process and Non-Process Pipe	655	18-Dec-20	03-Oct-22	322	27-May-21 A	19-Dec-22	12%	-77	-9
ES0001650	Drainage and Cable Duct	518	04-Jun-21	03-Nov-22	184	14-Mar-22	13-Sep-22	0%	51	23
ES0001660	Slope Mitigation and Maintenance Access	684	23-Nov-20	07-Oct-22	490	28-Sep-21 A	05-Jun-23	2%	-241	81
ES0001670	Landscaping Works	469	28-Oct-21	08-Feb-23	233	13-Oct-22	02-Jun-23	0%	-114	18
ES0002290	M&E PV Panels	215	23-Nov-21	25-Jun-22	134	17-May-22	27-Sep-22	0%	-94	31
ES0002310	M&E Chiller & Irrigation System Installation	298	27-Oct-21	20-Aug-22	199	19-Mar-22	03-Oct-22	0%	-44	3
ES0002350	M&E Installation of Surge Vessel	70	24-Feb-22	04-May-22	285	14-Jun-22	25-Mar-23	0%	-325	18
ES0002360	M&E Installation of Flowmeter Pit	70	24-Feb-22	04-May-22	65	14-Jun-22	17-Aug-22	0%	-105	72
ES0002370	M&E Installation of Static Mixer Pit	42	27-Jan-22	09-Mar-22	37	27-Jun-22	02-Aug-22	0%	-146	87
ES0002380	M&E Installation of Drainage Pit	30	23-Nov-21	22-Dec-21	32	20-May-22	20-Jun-22	0%	-180	101
ES0002390	M&E Installation of Thickened Sludge Holding Tank	42	09-Dec-21	19-Jan-22	44	08-Apr-22	21-May-22	0%	-122	160
Statutory Su	ubmission & Inspection									
ES0002330	Statutory Submission & Inspection	1148	11-Jan-20	03-Mar-23	511	03-Dec-19A	26-Jun-23	57%	-115	1
Testing and	Commissioning									
ES0002400	M&E Precomissioning	229	12-Jun-22	26-Jan-23	237	21-Sep-22	15-May-23	0%	-109	-18
ES0002410	M&E Commissioning	213	04-Jul-22	01-Feb-23	224	12-Oct-22	23-May-23	0%	-111	-18
ES0002420	M&E Performance Test	40	02-Feb-23	13-Mar-23	130	24-May-23	30-Sep-23	0%	-201	-18

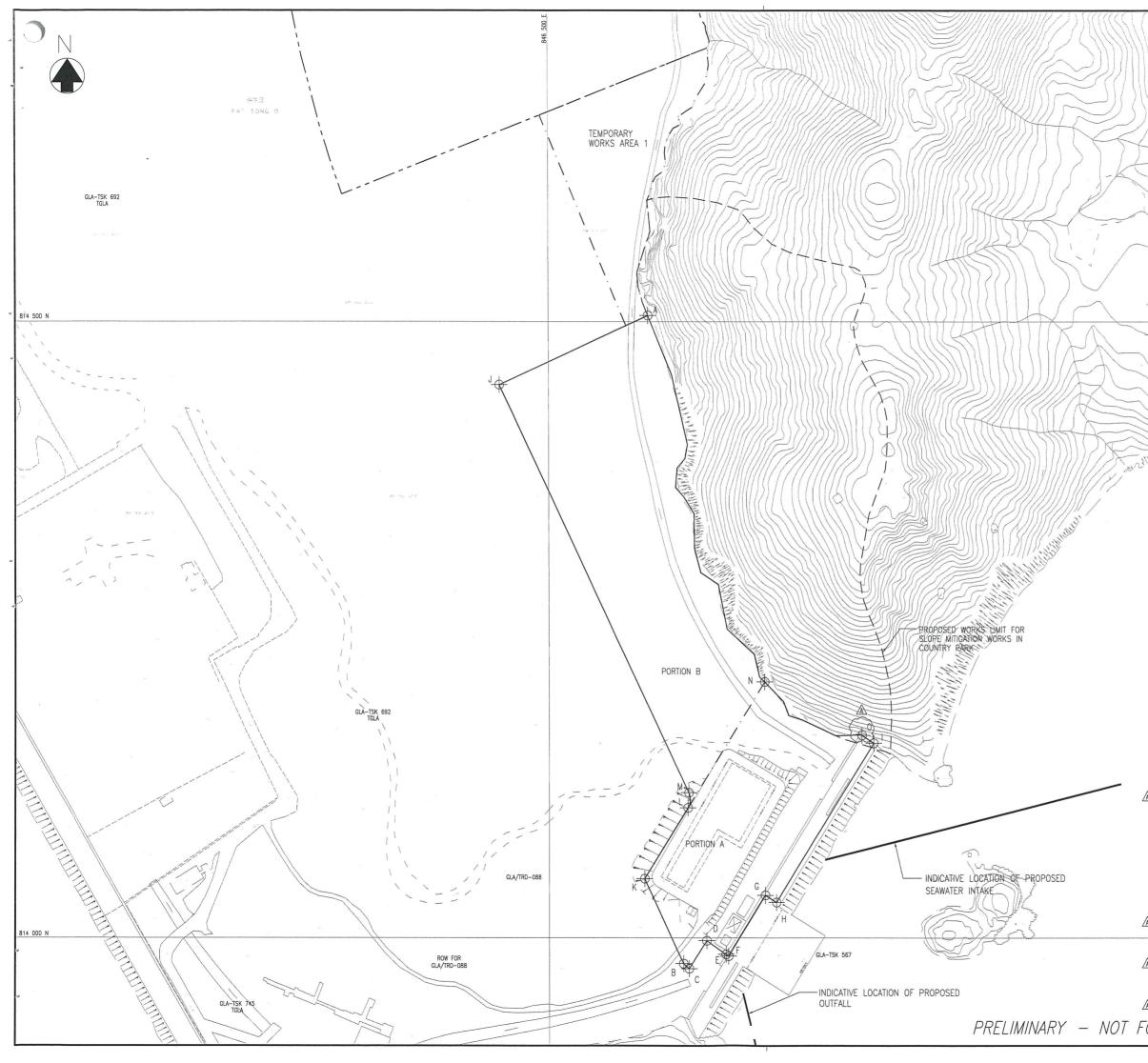






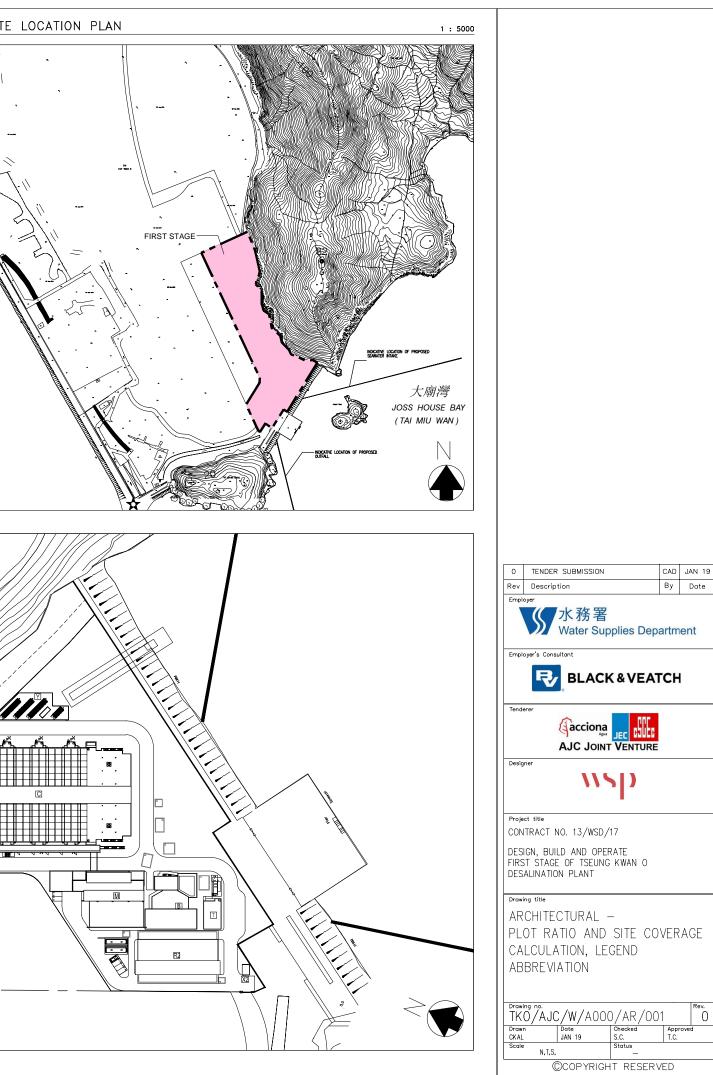
Appendix B

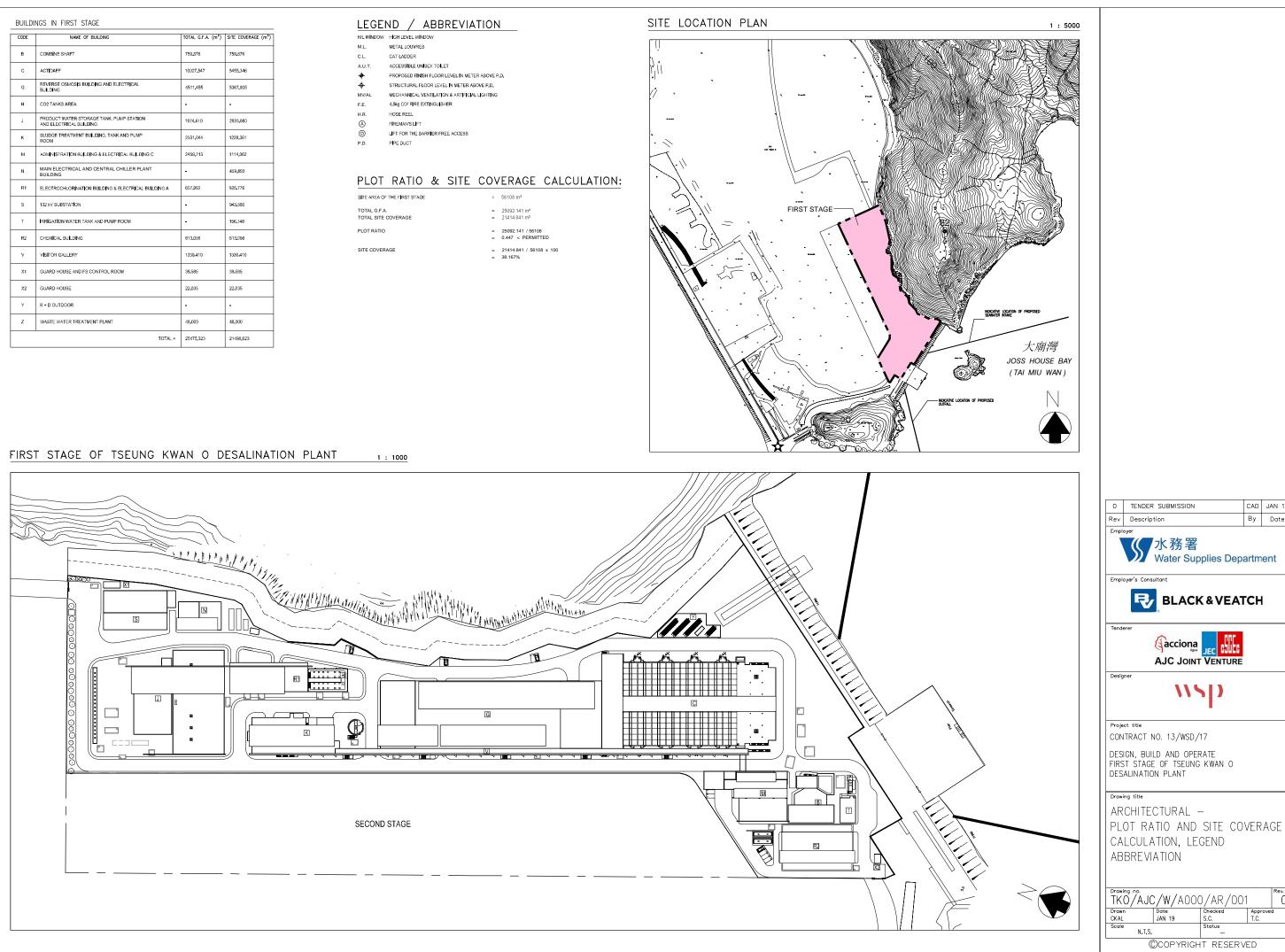
Overview of Desalination Plant in Tseung Kwan O



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

CODE	NAME OF BUILDING	TOTAL G.F.A. (m ²)	SITE COVERAGE (m ²)
В	COMBINE SHAFT	759.876	759.876
с	ACTIDAFF	10027.547	5455 <u>.</u> 346
G	REVERSE OSMOSIS BUILDING AND ELECTRICAL BUILDING	4511,455	5367,935
н	CO2 TANKS AREA	-	-
J	PRODUCT WATER STORAGE TANK, PUMP STATION AND ELECTRICAL BUILDING	1974.610	2933.980
к	SLUDGE TREATMENT BUILDING, TANK AND PUMP ROOM	2531.044	1228.361
м	ADMINISTRATION BUILDING & ELECTRICAL BUILDING C	2459.713	1114_062
N	MAIN ELECTRICAL AND CENTRAL CHILLER PLANT BUILDING	-	459.893
R1	ELECTROCHLORINATION BUILDING & ELECTRICAL BUILDING A	657.992	825.776
S	132 KV SUBSTATION	-	943.560
Т	IRRIGATION WATER TANK AND PUMP ROOM	-	156.148
R2	CHEMICAL BUILDING	813.056	813.056
٧	VISITOR GALLERY	1330.410	1330.410
X1	GUARD HOUSE AND FS CONTROL ROOM	39.585	39.585
X2	GUARD HOUSE	22.035	22.035
Y	R + D OUTDOOR	-	-
z	WASTE WATER TREATMENT PLANT	48.000	48.000
	TOTAL =	25175.323	21498.023







Appendix C

Summary of Implementation Status of Environmental Mitigation





EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation Agent	-	ement Stage	tation	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	impromonation rigone	D	С	0	status	Guidelines
Air Quality		•						
S4.8.1	Impervious dust screen or sheeting will be provided to enclose scaffolding from the ground floor level of building for construction of superstructure of the new buildings.	Land site/During Construction	Contractor(s)		~		Implemented	Air Pollution Control (Construction Dust)
S4.8.1	Impervious sheet will be provided for skip hoist for material transport.	Land site/ During Construction, particularly dry season	Contractor(s)		√		NA	
S4.8.1	The area where dusty work takes place should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after dusty activities as far as practicable.	Land site/ During Construction	Contractor(s)		-		Implemented	
S4.8.1	All dusty materials should be sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation.	Land site/ During Construction	Contractor(s)		•		Implemented	
S4.8.1	Dropping heights for excavated materials should be controlled to a practical height to minimize the fugitive dust arising from unloading.	Land site/ During Construction	Contractor(s)		•		Implemented	
S4.8.1	During transportation by truck, materials should not be loaded to a level higher than the side and tail boards, and should be dampened or covered before transport.	Land site/ During Construction	Contractor(s)		√		Implemented	
S4.8.1	Wheel washing device should be provided at the exits of the work sites. Immediately before leaving a construction site, every vehicle shall be washed to remove any dusty material from its body and wheels as far as practicable.	Land site/ During Construction	Contractor(s)		•		Implemented	
S4.8.1	Road sections between vehicle-wash areas and vehicular entrance will be paved.	Land site/ During Construction	Contractor(s)		1		Implemented	
S4.8.1	Hoarding of not less than 2.4m high from ground level will be provided along the length of the Project Site boundary.	Land site/ During construction	Contractor(s)	1	1		N/A	
S4.8.1	Haul roads will be kept clear of dusty materials and will be sprayed with water so as to maintain the entire road surface wet at all times.	Land site/ During construction	Contractor(s)		•		Implemented	





EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation Agent		ement Stage	tation	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	Implementation Agent	D	C	0	status	Guidelines
S4.8.1	Temporary stockpiles of dusty materials will be either covered entirely by impervious sheets or sprayed with water to maintain the entire surface wet all the time.	Land site/ During construction	Contractor(s)		~		Implemented	
S4.8.1	Stockpiles of more than 20 bags of cement, dry pulverised fuel ash and dusty construction materials will be covered entirely by impervious sheeting sheltered on top and 3-sides.	Land site/ During construction	Contractor(s)		•		N/A	
S4.8.1	All exposed areas will be kept wet always to minimise dust emission.	Land site/ During construction	Contractor(s)		~		Implemented	
S4.8.1	Ultra-low-sulphur diesel (ULSD) will be used for all construction plant on-site, as defined as diesel fuel containing not more than 0.005% sulphur by weight) as stipulated in Environment, Transport and Works Bureau Technical Circular (ETWB-TC(W)) No 19/2005 on Environmental Management on Construction Sites.	Land site/ During construction/ During Operation	Contractor(s)		•	-	Implemented	Environment, Transport and Works Bureau Technical Circular (ETWB- TC(W)) No 19/2005 on Environmental Management on Construction Sites
\$4.8.1	The engine of the construction equipment during idling will be switched off.	Land site/ During construction	Contractor(s)		~		Implemented	
S4.8.1	Concrete batching plant will be required on site. control measures recommended in the Guidance Note on a Best Practicable Means for Cement Works (Concrete Batching Plant) (BPM 3/2 (93)) will be implemented. The control measures recommended in the Guidance Note on a Best Practicable Means for Cement Works (Concrete Batching Plant) (BPM 3/2 (93)) will be implemented.	Land site/ During construction	Contractor(s)		•		N/A	
\$4.8.1	Regular maintenance of construction equipment deployed on-site will be conducted to prevent black smoke emission.	Land site/ During construction	Contractor(s)		~		Implemented	
S4.10	To ensure proper implementation of the recommended dust mitigation measures and good construction site practices during the construction phase, environmental site audits on weekly basis is recommended throughout the construction period.	Land site/ During construction	Contractor(s)/ Environmental Team (ET) & Independent Environmental Checker (IEC)		•		Implemented	

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





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

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EIA	Recommended Environmental Protection Measures/	Objectives of the	Implementation	Imple	ement	ation	Implementation	Relevant Legislation &
Reference	Mitigation Measures	recommended measures &	Agent		Stage	ation	status	Guidelines
Kelerence	Mitigation Measures	main concerns to address	ngent	D	C	0	Status	Guidelines
\$5.7	PMEs will not be used at the works areas near educational institutions with residual impact (ie the "influence area" within a radius of 40m) during school hours in order to reduce impact to the educational institutions.	Noise control / During construction	Contractor(s)		√		N/A	A Practical Guide for the Reduction of Noise from Construction Works
\$5.7	Noise enclosures or acoustic sheds would be used to cover stationary PME such as generators. Portable/Movable noise enclosure made of material with superficial surface density of at least 7 kg m-2 may be used for screening the noise from operation of the saw/groover, concrete.	Noise control/ Pre- construction/ During construction	Contractor(s)	~	•		N/A	
S5.9	Sawcutting pavement, breaking up of pavement, excavation /shoring, pipe laying, backfilling, reinstatement (concrete) and pipe jacking shall be scheduled outside the examination period.	Noise control/ Pre- construction/ During construction	Contractor(s)	~	-		N/A	
S5.9	In view the duration of noise exceedance at Creative Secondary School, PLK Laws Foundation College, TKO Kei Tak Primary School and School of Continuing and Professional Studies-CUHK is limited to 8 weeks, the construction work in the influence areas near the four schools shall be scheduled during long school holidays (eg summer holiday, Easter holiday or Christmas holiday, etc) as far as practicable. Scheduling the construction work for the four schools.	Noise control/ Pre- construction/ During construction	Contractor(s)	•	•		N/A	
S5.10	A noise monitoring programme shall be implemented for the construction phase.	Designated monitoring stations as defined in EM&A Manual/During construction phase	Environmental Team		•		N/A	
S5.10	The effectiveness of on-site control measures could also be evaluated through the regular site audits.	All facilities/ During construction	Contractor(s)/ ET & Independent Environmental Checker (IEC)		•		Implemented	-

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

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EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation Agent	-	Stag	itation e	Implementation status	Relevant Legislation & Guidelines
		main concerns to address		D	С	0		
Water Qua	lity							
S6.9	Dredged marine sediment will be disposed of in a gazetted marine disposal area in accordance with marine dumping permit conditions of the Dumping at Sea Ordinance (DASO).	Marine Dredging/ During construction	Contractor(s)		1		Implemented	Dumping at Sea Ordinance (DASO)
S6.9	Disposal vessels will be fitted with tight bottom seals in order to prevent leakage of material during transport.	Marine Dredging/ During construction	Contractor(s)		1		Implemented	-
S6.9	Barges will be filled to a level, which ensures that material does not spill over during transport to the disposal site and that adequate freeboard is maintained to ensure that the decks are not washed by wave action.	Marine Dredging/ During construction	Contractor(s)		•		Implemented	-
S6.9	After dredging, any excess materials will be cleaned from decks and exposed fittings before the vessel is moved from the dredging area.	Marine Dredging/ During construction	Contractor(s)		1		Implemented	-
S6.9	All vessels should be well maintained and inspected before use to limit any potential discharges to the marine environment.	Marine Dredging/ During construction	Contractor(s)		✓		Implemented	-
S6.9	All vessels must have a clean ballast system.	Marine Dredging/ During construction	Contractor(s)		1		Implemented	-
S6.9	No discharge of sewage/grey wastewater should be allowed. Waste water from potentially contaminated area on working vessels should be minimized and collected. These kinds of wastewater should be brought back to port and discharged at appropriate collection and treatment system.	Marine Dredging/ During construction	Contractor(s)		•		Implemented	-
S6.9	No soil waste is allowed to be disposed overboard.	Marine Dredging/ During construction	Contractor(s)		1		N/A	-
S6.9	Silt removal facilities such as silt traps or sedimentation facilities will be provided to remove silt particles from runoff to meet the requirements of the TM standard under the WPCO. The design of silt removal facilities will be based on the guidelines provided in ProPECC PN 1/94. All drainage facilities and erosion and sediment control structures will be inspected on a regular basis and maintained to confirm proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit will be removed regularly	Land site & drainage/ During construction	Contractor(s)		•		Implemented, reminder issued	ProPECC PN 1/94 TM Standard under the WPCO





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EIA	Recommended Environmental Protection Measures/	Objectives of the	Implementation Agent	Impi		itation	-	Relevant Legislation
Reference	Mitigation Measures	recommended measures &			Stag		status	& Guidelines
		main concerns to address		D	С	0		
S6.9	Earthworks to form the final surfaces will be followed up with surface protection and drainage works to prevent erosion caused by rainstorms.	Land site & drainage/ During construction	Contractor(s)		~		Implemented	-
S6.9	Appropriate surface drainage will be designed and provided where necessary.	Land site & drainage/ During construction	Contractor(s)		~		Implemented	-
S6.9	The precautions to be taken at any time of year when rainstorms are likely together with the actions to be taken when a rainstorm is imminent or forecasted and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94.	Land site & drainage/ During construction	Contractor(s)	V	•		Implemented	ProPECC PN 1/94
S6.9	Oil interceptors will be provided in the drainage system where necessary and regularly emptied to prevent the release of oil and grease into the storm water drainage system after accidental spillages.	Land site & drainage/ During construction	Contractor(s)		•		N/A	-
S6.9	Temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge, if any, will be adequately designed for the controlled release of storm flows.	Land site & drainage/ During construction	Contractor(s)		~		Implemented	-
S6.9	The temporary diverted drainage, if any, will be reinstated to the original condition when the construction work has finished or when the temporary diversion is no longer required.	Land site & drainage/ During construction	Contractor(s)		~		N/A	-
S6.9	Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the construction workers over the construction site to prevent direct disposal of sewage into the water environment.	Land site & drainage/ During construction	Contractor(s)		~		Implemented	-
S6.9 and S6.12	The sterilization water should be dechlorinated with total residual chlorine (TRC) level below 1 mg/L before discharge to public sewer. In situ testing of TRC should also be conducted for the discharge of chlorinated water for pipeline disinfection to ensure sufficient dechlorination before discharge to public sewer.	Sterilization of water mains prior to commissioning	Contractor(s)		•	•	N/A	Technical Memorandum for Effluents Discharged into Drainage and Sewerage Systems Inland and Coastal Waters

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EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation Agent	Impl	Implementation Stage		Implementation status	Relevant Legislation & Guidelines
		main concerns to address		D	С	0		
\$6.9	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)		•	•	N/A	Technical Memorandum for Effluents Discharged into Drainage and Sewerage Systems 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, reminder issued	-
S6.12	Regular site inspections will be carried out in order to confirm that regulatory requirements are being met and that contractors are implementing the standard site practice and mitigation measures as proposed to reduce potential impacts to water quality.	During construction	Contractor(s)/ ET & IEC		•		Implemented, reminder issued	-

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

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EIA	Recommended Environmental Protection Measures/	Objectives of the		Implementation			Implementation	Relevant Legislation &
Reference	Mitigation Measures	recommended measures & main concerns to address	Implementation Agent	D	Stag C	e 0	Status	Guidelines
Waste Mar	nagoment	main concerns to address		ען	L	0	[
S8.5	Nomination of approved personnel to be responsible for standard site practices, arrangements for collection and effective disposal to an appropriate facility of all wastes generated at the site.	Contract mobilization/ During construction	Contractor(s)		~		Implemented	-
\$8.5	Training of site personnel in proper waste management and chemical handling procedures. Training will be provided to workers on the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling at the beginning of the construction works.	Contract mobilization/ During construction	Contractor(s)		•		Implemented	-
S8.5	Provision of sufficient waste disposal points and regular collection for disposal.	All area/ During construction/ During operation	Contractor(s)		~	*	Implemented, reminder issued	DEVB TC(W) No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness.
S8.5	Appropriate measures to reduce windblown litter and dust transportation of waste by either covering trucks or by transporting wastes in enclosed containers.	All area/ During construction	Contractor(s)		•		Implemented	DEVB TC(W) No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness.
S8.5	A waste management plan (WMP) as stated in the "ETWB TC(W) No. 19/2005, Environmental Management on Construction Sites" for the amount of waste generated, recycled and disposed of (including the disposal sites) will be established and implemented during the construction phase as part of the Environmental Management Plan (EMP). The Contractor will be required to prepare the EMP and submits it to the Architect/ Engineer under the Contract for approval prior to implementation.	All area/ During construction	Contractor(s)		•		Implemented	ETWB TC(W) No. 19/2005, Environmental Management on Construction Sites
S8.5	Separation of chemical wastes for special handling and appropriate treatment at the Chemical Waste Treatment Centre at Tsing Yi.	All area/ During construction	Contractor(s)		•		Implemented	Chapters 2 & 3 Code of Practice on the Packaging, Labelling & Storage of Chemical Wastes published under the Waste Disposal Ordinance (Cap 354), Section 35

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EIA	Recommended Environmental Protection Measures/	Objectives of the		-		tation	Implementation	Relevant Legislation &
Reference	Mitigation Measures	recommended measures & main concerns to address	Implementation Agent	D	Stage C	9 0	Status	Guidelines
S8.5	Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.	Land site/ During construction	Contractor(s)		✓	0	Implemented	Waste Disposal Ordinance (Cap 354)
S8.5	A recording system for the amount of wastes generated/ recycled and disposal sites. The trip- ticket system will be included as one of the contractual requirements and implemented by the contractor(s).	Land site/ During construction	Contractor(s)		•		Implemented	DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials
S8.5	Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of material and their proper disposal.	Land site/ During construction/ During operation	Contractor(s)		~		Implemented	WBTC 32/92, The Use of Tropical Hard Wood on Construction Site
S8.5	Encourage collection of aluminium cans and waste paper by individual collectors during construction with separate labelled bins provided to segregate these wastes from other general refuse by the workforce.	Land site/ During construction	Contractor(s)		•		Implemented	ETWB TCW No. 33/2002, Management of Construction and Demolition Material Including Rock
S8.5	Any unused chemicals and those with remaining functional capacity will be recycled as far as possible.	Land site/ During construction	Contractor(s)		~		N/A	-
S8.5	Use of reusable non-timber formwork to reduce the amount of C&D materials.	All areas/ During construction	Contractor(s)		•		Implemented	WBTC 32/92, The Use of Tropical Hard Wood on Construction Site
S8.5	Prior to disposal of construction waste, wood, steel and other metals will be separated to the extent practical, for re-use and/or recycling to reduce the quantity of waste to be disposed of to landfill.	All areas/ During construction	Contractor(s)		•		Implemented	DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials
S8.5	Proper storage and site practices to reduce the potential for damage or contamination of construction materials.	All areas/ During construction	Contractor(s)		✓		Implemented	-
S8.5	Plan and stock construction materials carefully to reduce amount of waste generated and avoid unnecessary generation of waste.	All areas/ During construction	Contractor(s)		~		Implemented	-





EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation Agent	Impl	emen Stage	tation	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	Implementation Agent	D	C	0	Status	Guidelines
\$8.5	A Sediment Quality Report (SQR) for sampling and chemical testing of the sediment will be prepared and submitted to the EPD for approval. The approved detailed sampling and chemical testing will be carried out prior to the commencement of the dredging activities to confirm the sediment disposal method.	Marine works/ During construction	Contractor(s)		•	-	N/A	ETWB TC(W) No. 34/2002 and Dumping at Sea Ordinance (DASO)
S8.5	The management of dredged/ excavated sediment management requirement from ETWB TC(W) No. 34/2002 will be incorporated in the Specification of the Contract Documents.	Marine works/ During construction	WSD/ Contractor(s)		~		Implemented	ETWB TC(W) No. 34/2002 and Dumping at Sea Ordinance (DASO)
\$8.5	The contractor will open a billing account with EPD in accordance with the Waste Disposal (Charges for Disposal of Construction Waste) Regulation for the payment of disposal charges.	Contract mobilization/ During construction	Contractor(s)		~		Implemented	Cap 354N Waste Disposal (Charges for Disposal of Construction Waste) Regulation
S8.5	A trip-ticket system will be established in accordance with DEVB TC(W) No. 6/2010 to monitor the reuse of surplus excavated materials off-site and disposal of construction waste and general refuse at transfer facilities/ landfills, and to control fly-tipping.	Contract mobilization/ During construction	Contractor(s)		•		Implemented	DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials
S8.5	The project proponent will also conduct regular inspection of the waste management measures implemented on site as described in the Waste Management Plan.	All area/ During construction	Contractor(s)/ Environmental Team (ET) & Independent Environmental Checker (IEC)		•		Implemented	ETWB TC(W) No. 19/2005, Environmental Management on Construction Sites
\$8.5	A recording system (similar to summary table as shown in Annex 5 and Annex 6 of Appendix G of ETWB TC(W) No. 19/2005) for the amount of waste generated, recycled and disposed of (including the disposal sites) will be established during the construction phase.	All area/ During construction	Contractor(s)		•		Implemented	Annex 5 and Annex 6 of Appendix G of ETWB TC(W) No. 19/2005
S8.5	Inert C&D materials (public fill) will be reused within the Project as far as practicable.	All area/ During construction	Contractor(s)		~		Implemented	-
S8.5	Public fill and construction waste shall be segregated and stored in different containers or skips to facilitate reuse or recycling of materials and their proper disposal.	All area/ During construction	Contractor(s)		•		Implemented	-
S8.5	Specific areas of the work site will be designated for such	All area/ During construction	Contractor(s)		✓		Implemented	-





EIA	Recommended Environmental Protection Measures/	Objectives of the		Impl	olementation		Implementation	Relevant Legislation &
Reference	Mitigation Measures	recommended measures &	Implementation Agent	_	Stag		Status	Guidelines
	-	main concerns to address		D	С	0		
60 F	segregation and storage if immediate use is not practicable.				✓		T 1 . 1	
S8.5	To reduce the potential dust and water quality impacts of site formation works, C&D materials will be wetted as quickly as possible to the extent practice after filling.	All area/ During construction	Contractor(s)		v		Implemented	Air Pollution Control (Construction Dust) Regulation (Cap 311R); WPCO (Cap 358)
S8.5	Open stockpiles of excavated/ fill materials or construction wastes	Land site/ During	Contractor(s)		✓		Implemented	Air Pollution Control
	on-site should be covered with tarpaulin or similar fabric.	Construction, particularly dry season						(Construction Dust) Regulation (Cap 311R)
S8.5	Chemical waste container shall be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed.	All area/ During construction/ During operation	Contractor(s)/WSD		~	~	Implemented	
S8.5	Chemical waste container shall have a capacity of less than 450 L unless the specifications have been approved by the EPD.	All area/ During construction/ During operation	Contractor(s)/WSD		~	~	Implemented	
S8.5	A label in English and Chinese shall be displayed on the chemical container in accordance with instructions prescribed in Schedule 2 of the Regulations.	All area/ During construction/ During operation	Contractor(s)/WSD		~	~	Implemented, rectified after observed issued,	
S8.5	Storage areas for chemical waste shall be enclosed on at least 3 sides.	All area/ During construction/ During operation	Contractor(s)/WSD		•	~	Implemented	Waste Disposal
S8.5	Storage areas for chemical waste shall have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest.	All area/ During construction/ During operation	Contractor(s)/WSD		~	~	Implemented	(Chemical Waste) (General) Regulation; Code of Practice on the Packaging,
S8.5	Storage areas for chemical waste shall have adequate ventilation.	All area/ During construction/ During operation	Contractor(s)/WSD		~	1	Implemented	Handling and Storage of Chemical Wastes
S8.5	Storage areas for chemical waste shall be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary).	All area/ During construction/ During operation	Contractor(s)/WSD		*	√	Implemented	
S8.5	Storage areas for chemical waste shall be arranged so that incompatible materials are appropriately separated.	All area/ During construction/ During operation	Contractor(s)/WSD		*	~	Implemented	
S8.5	General refuse will be stored in enclosed bins or compaction units separately from construction and chemical wastes.	All area/ During construction/ During operation	Contractor(s)/WSD		•	√	Implemented, reminder issued.	





EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation Agent	Imp	lemer Stag	ntation e	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	1 5	D	C	0	Status	Guidelines
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 minimise 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, waste paper, glass bottles and plastic bottles) from the Site. Materials recovered will be sold for recycling.	All area/ During construction/ During operation	Contractor(s)/WSD		•	•	Implemented	-
S8.5	To avoid any odour and litter impact, accurate number of portable toilets will be provided for workers on-site.	All area/ During construction	Contractor(s)		~		Implemented	-
S8.5	The burning of refuse on construction sites is prohibited by law.	All area/ During construction	Contractor(s)		~		Implemented	Air Pollution Control Ordinance (Cap 311)
S8.7	To facilitate monitoring and control over the contractors' performance on waste management, a waste inspection and audit programme will be implemented throughout the construction phase.	All facilities/ During construction	ET/ IEC		•		Implemented	-

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

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





EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation Agent	Impl	emei Stag	ntation e	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	1 0	D	C	0	Status	Guidelines
	the locations and their importance.	During construction						
S9.7	The resident site supervisory staff will closely monitor the conditions of concerned individuals during construction of flexible barriers in the close proximity.	Slope mitigation works area/ During construction	Contractor(s)		~		N/A	-
S9.7	Erect fences along the boundary of the works area before the commencement of works to prevent vehicle movements and encroachment of personnel onto adjacent areas.	All area/ During construction	Contractor(s)		~		Implemented	-
S9.7	Regularly check the work site boundaries to ensure that they are not breached and that damage does not occur to surrounding areas.	All area/ During construction	Contractor(s)/ ET		•		Implemented.	-
S9.7	Avoid any damage and disturbance, particularly those caused by filling and illegal dumping, to the surrounding habitats through proper management of waste disposal.	All area/ During construction	Contractor(s)		*		Implemented	-
\$9.7	Reinstate temporarily affected areas, particularly the habitats of plantation and shrubland-grassland immediately after completion of construction works, through on-site tree/shrub planting. The tree/shrub species will be chosen with reference to those in the surrounding area.	All area/ During construction	Contractor(s)		~		N/A	-
\$9.7	Affected habitats within the Clear Water Bay Country Bay shall be reinstated by hydro-seeding and planting of climbers and native shrub seedlings where practical upon completion of the slope mitigation works.	All area/ During construction	Contractor(s)		~		N/A	-

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

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



	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation Agent	Implei Stage	nenta	ation	Implementation Status	Relevant Legislation & Guidelines
		main concerns to address		D	D C			Guidennes
	e & Visual		1	T .			- 1	
S11.10 & 11.11	The construction area and area allowed for temporary structures, such as the contractor's office, will be minimized to a practical minimum. (MM1)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	√		~	Implemented	-
S11.10 & 11.11	At the detailed design stage, the design team will seek to minimize the landscape footprint of the Project and above ground facilities, while satisfying all other requirements. (MM2)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	•	~	4	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)	1	~	•	Implemented, reminder issued	ETWB TCW No. 3/2006 - Tree Preservation.
S11.10 & 11.11	No tree within the Country Park will be felled. Trees within the Site unavoidably affected by the works will be transplanted where necessary and practical. For trees that need to be felled, compensatory planting will be provided to the satisfaction of relevant Government departments. A compensatory tree planting proposal including locations of tree compensation will be submitted to seek relevant government department's approval, in accordance with DEVB TC(W) No. 10/2013. (MM5)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	~	~	•	Implemented	DEVB TC(W) No. 10/2013
S11.10 & 11.11	Any slope mitigation works necessary to address natural terrain hazards, will be minimized to minimize any potential environmental impact to the Country Park e.g. soil nailing and rock stabilization will aim to avoid existing trees e.g. should any restoration of vegetation be necessary, the best planting matrix with native species will be established, with the aim of resembling the existing vegetation. (MM6)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	•	~	•	N/A	

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



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

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



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



		Objectives of the		Implementation			Implementation	
EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	recommended measures & main	Implementation		C	0	Status	Relevant Legislation & Guidelines
Reference		concerns to address	Agent	D	С	0		Guidennes
		construction/ During operation						
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, supervisors responsibilities, storage and use of safety equipment, safety procedures and signs, barriers and guarding). The site supervisor and all operatives must be familiar with this statement.	All area/ During construction/ During 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/ During operation	Contractor(s)	•	•	~	N/A	
S12.7	It is recommended regular landfill gas monitoring should be carried out at the Incoming Switchgear Room, 132 kV Substation and Chlorine Store (I) and (II). The monitoring frequency will be monthly for the first year of operation. If the monitoring results show no sign of landfill gas migration, reduce the monitoring frequency to once every six months.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	-	•	•	N/A	
S12.7	The manholes and utility pits within the Project Site and along the fresh water mains. Each manhole/ utility pit should be monitored with two measurements (at mid depth and base). Each measurement should be monitored for a minimum of 10 minutes. A steady reading and peak reading should be recorded at each manhole/ utility pit and for each measurement. The need for venting the manhole/ utility pit and further monitoring will be reviewed after the initial monitoring.	All area/ Detailed design/ During construction/ During 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/ During operation	Contractor(s)	•	•	•	Implemented	

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





Appendix D

Impact Monitoring Schedule of the Reporting Month

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

May-22							
1	Mon	Tue	Wed		Fri	Sat 7	
	2	3 Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR3, WSR3, WSR36, WSR37 Tidal Period: Ebb Tide: 10.27-17:00 Flood Tide: 0.35-10.27 <u>Monitoring Time</u> ; Micheb: 11.58-15-28 Mid-flood: 08:00-10:06	4	5 Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR33, WSR36, WSR37 Tidal Period: Ebb Tide: 10:00-18:40 Flood Tide: 0:342-10:00 <u>Monitoring Time</u> ; Mid-ebb: 12:35-16:05 Mid-flood: 08:00-09:41	6	 Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WS WSR36, WSR37 Tidal Period; Ebb Tide: 10:55-20:50 Flood Tide: 05:00-10:55 Monitoring Time; Mid+bb: 14:07:17:37 Mid-flood: 08:00-10:37 	
	9	10	11	12	13	14	
		Impact Water Quality monitoring for CE; CF, WSRI, WSR2, WSR3, WSR3, WSR33, WSR36, WSR37 <u>Tidal Periodi</u> Ebb Tidae: 15:45:23:59 Floot Tide: 00:00-15:45 <u>Monitoring Times</u> Mid-abis: 16:09:19:00 Mid-flood: 11:27:14:57		Impact Water Quality monitoring for CE, CF, WSRL WSR2, WSR3, WSR4, WSR3, WSR36, WSR37, <u>Tidal Periodo</u> Ebb Tide: 07:27-12:11 Flood Tide: 12:11-18:16 <u>Monitoring Time</u> : Mid-bib: 08:09-11:34 Mid-flood: 13:28-16:58		Impact Water Quality monitoring for CE, CF, WSR1, WSR3, WSR4, WSR3, WSR4, WSR3 <u>Tidal Period:</u> Ebb Tide: 08:00-13:57 Floot Tide: 13:57-20:38 <u>Monitoring Time:</u> Mid-bb:09:13:12:43 Mid-flood:15:32-19:00	
	16	17	18	19	20	21	
		Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR36, WSR37, WSR36, WSR37 Tidal Period: Ebb Tide: 09:35-16:21 Floot Tide: 16:21:23:311 <u>Monitoring Time</u> . Mid-thc): 11:31:14:43 Mid-flood: 16:42-19:00		Impact Water Quality monitoring for CE, CF, WSR1, WSR3, WSR4, WSR4, WSR3, WSR36, WSR37 Tidal Periodi Ebb Tide: 11:05-18:00 Flood Tide: 05:35:11:05 <u>Monitoring Time</u> ; Mid-fb:0cd: 08:00-10:43		Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WS WSR36, WSR37 <u>Tidal Period</u> Ebb Tide: 13:00-20:30 Flood Tide: 05:00-13:00 <u>Monitoring Times</u> Mid-fbo: 15:00-18:30 Mid-flood: 08:00-10:45	
	23	24	25	26	27	28	
		Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR3, WSR3, WSR36, WSR37 <u>Tidal Period</u> Ebb Tide: 16:34-23:21 Floot Tide: 09:45-16:34 <u>Monitoring Times</u> Micheb: 16:54-19:00 Mid-flood:11:24-14:54		Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR3, WSR36, WSR37, <u>Tidal Periodo</u> Ebb Tide: 07:09-12:31 Flood Tide: 12:31-18:54 <u>Monitoring Time</u> : Mid-#bio:08:10-11:40 Mid-flood: 13:57-17:27		Impact Water Quality monitoring for CE, CP, WSRI, WSR2, WSR3, WSR4, WSR16, WS WSR36, WSR37 <u>Tidal Periodi</u> Ebb Tide: 0611014114 Flood Tide: 14:14-21:00 <u>Monitoring Timas</u> , Mid-ebb: 09:27712.57 Mid-10:061.552-19:00	
	30	31					
		Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR3, WSR36, WSR37 Tidal Period: Ebb Tide: 09:24-16:23 Flood Tide: 16:23-23:13 <u>Monitoring Times</u> Mid-ebb: 11:06:14:38 Mid-flood:16:43-19:00					





Appendix E

Event / Action Plan for Noise Exceedance



Table E1Event and Action Plan for Construction Noise Monitoring

Event	Action									
	ET	IEC	R	Contractor						
Action Level	 Carry out investigation to identify the source and cause of the complaint/ exceedance(s) Notify IEC, ER, and Contractor and report the results of investigation to the Contractor, ER and the IEC Discuss with the Contractor and IEC for remedial measures required If the complaint is related to the Project, condu additional monitoring for checking mitigation effectiveness and report the findings and results to the IEC, ER and the Contractor 	3. Supervise the implementation of remedial measures	writing Require Contractor to propose remedial measures for the analysed noise problem	 Submit noise mitigation proposals, if required to the IEC and ER Implement noise mitigation proposals. 						
Limit Level	 Carry out investigation to identify the source and cause of the exceedance Notify IEC, ER, Project Proponent, EPD and Contractor Repeat measurements to confirm findings Provide investigation report to IEC, ER, EPD and Contractor he causes of the exceedances If the exceedance is related to the Project, asses effectiveness by additional monitoring. Report the remedial action implemented and th additional monitoring results to IEC, EPD, ER and Contractor If exceedance stops, cease additional monitorin 	4. Supervise the implementation of remedial ss measures ne d	writing Require the Contractor to propose remedial measures for the analysed noise problem	 Take immediate action to avoid further exceedance Submit proposals for remedial actions to IEC and ER within 3 working days of notification Implement the agreed proposals Resubmit proposals if problem still not unde control Stop the relevant activity of works as determined by the Project Proponent until the exceedance is abated 						

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





Appendix F

Noise Monitoring Equipment Calibration Certificate (Blank)





(Blank)





Appendix G

Event / Action Plan for Water Quality Exceedance



Table G1Event and Action Plan for Water Quality Monitoring

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

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





Appendix H

Waste Flow Table

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

Appendix F - Monthly Summary Waste Flow Table

Name of Department: WSD

Contract No.: 13/WSD/17

Actual Quantities of Inert C&D Materials Generated Monthly Actual Quantities of C&D Wastes Generated Monthly Hard Rock and Total Quantity Plastics Reused in the Reused in other Disposed as Paper/ cardboard Others, e.g. Large Broken Chemical Waste Month Imported Fill Metals Generated Contract Projects Public Fill packaging general refuse Concrete (see Note 3) (in '000kg) (in '000kg) (in '000kg) (in '000kg) (in '000kg) (in '000 kg) (in '000kg) (in '000kg) (in '000kg) (in '000kg) (in '000kg) 233.850 0.000 233.850 0.000 0.000 109.020 Jan 0.000 0.000 0.000 0.069 0.005 175.850 0.000 0.000 175.850 0.000 0.000 0.000 0.000 0.296 94.830 Feb 0.000 68.790 0.000 0.000 0.000 68.790 0.000 0.000 0.000 0.000 0.000 54.140 Mar 29.050 0.000 0.000 0.000 29.050 0.000 0.001 0.165 0.004 0.000 113.780 Apr 6.300 0.000 0.000 0.000 0.000 0.000 71.350 May 0.000 0.000 6.300 0.000 Jun 513.840 0.000 0.000 0.000 513.840 0.000 0.001 0.234 0.008 0.296 443.120 Sub-total Jul Aug Sep Oct Nov Dec 0.000 Total 513.840 0.000 0.000 0.000 513.840 0.001 0.234 0.008 0.296 443.120

Monthly Summary Waste Flow Table for <u>2022</u> (year)

Notes:

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

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

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

* The data will be reviewed in next month.





Appendix I

Site Inspection Proforma

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WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST									
Inspection Date: 3/	5/2022	22	Inspected by:		Chy Jenny Fiction 1944	so: <u>Mr.</u> IEC: Mr.	Rawmond Keik WSD:		
Inspection Time:	30-4.	<u>50</u>			- they have g		Laure Frence		
Weather	1	-				**************************************			
Condition	Sunny	Fine	Overcast	Drizzle	Rain	Storm	Hazy		
Temperature	27 c		Humidity	High	Moderate	Low			
Wind	Calm	Light	Breeze	Strong					

[tem	EIA ref.	[de la companya de la	
No.			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?		\square		
0.02						
0.02		Is ET Leader's log-book kept readily available for inspections?		\square		
1.00		Construction Dust				
1.01	S4.8.1	Are dusty materials, such as excavated materials, building debris and construction	\Box			
		materials, and exposed earth surface properly covered to prevent dust emission?				6
1.02	S4.8.1	Are screenings, enclosures, water spraying or vacuum cleaning devices provided to			**************************************	
		dusty construction works for dust suppression?	\Box			
		а.				
1.03	S4.8.1	Are fumes or smoke emitting plants or construction activities shielded by a screen?				
		, · · · ·				
1.04	S4.8.1	Are wheel-washing facilities with high-pressure water jets provided at all site exits?		·		
				Δ		
1.05	S4.8.1	Is wheel-washing provided to all vehicles leaving the site?		1		
				\checkmark		
1.06	S4.8.1	Are road section near the site exit free from dusty material?		Th.		
100				V		
1.07	S4.8.1	Are all main haul roads inside the site paved or sprayed with water to minimize dust		∇		Reminder 2
100		emission during vehicle movement?				NEMANER 2
1.08	S4.8.1	Are water spraying provided immediately prior to any loading or transfer of dusty				
100		materials?				
1.09	2	Are covers provided to all dump trucks carrying dusty materials when entering and		∇		
1.40		leaving the site?		Ľ		
1.10		Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of	57			
		boulders, poles, pillars sprayed with water to maintain the entire surface wet?				
1.11		is exposed earth properly treated within six months after the last construction activity	$\overline{\Lambda}$			-
112		on site?				
1.12	S4.8.1	Does the operation of plants on site free form dark smoke emission?		∇		
				Ľ		



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	CONU	ract no. 13/WSD/17 Design, Build and Operate First Stage of Ts	Contraction of the local division of the loc	and the second se		
item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
1.13	S4.8.1	Are vehicles travelling at speed not exceeding 15km/hr within the site?		\checkmark		
1.14	\$4.8.1	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides?	\square			
1.15	S4.8.1	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?				••••••••••••••••••••••••••••••••••••••
1.16	S4.8.1	Are hoarding of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?	\square			
1.17	S4.8.1	Is open burning prohibited?		\square		
2.00		Construction Noise (Airborne)		/		
2.01	S5.7	Are quiet plants adopted on site?		\checkmark		
2.02	S5.7	Are the PMEs operating on site well-maintained to minimize the generation of excessive niose?		\checkmark		
2.03	S5.7	Are plants throttled down or turned off when not in use?				
2.04	S5.7	Are the plants known to emit noise strongly in one direction oriented to face away from NSRs?				
2.05	S5.7	Are moveable barriers provided to screen NSRs from plant or noisy operations?				
2.06	S5.7	Are silencers, mufflers and enclosures provided to plants?	T			
2.07	S5.7	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?				•
2.08	S5.7	Are purposely-built site hoarding construction with appropriate materials provided along the site boundary?		\square		
2.09	S5.7	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers?		\square		
2.10	S5.7	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?	\checkmark			
2.11	S5.7	Are valid noise emission label(s) affixed to all air compressors operating on site?				•
2.12	S5.7	Are all construction noise permit(s) applied for percussive piling work?				
2.13	S5.7	Are construction noise permit(s) applied for general construction works during restricted hours?		\checkmark		
2.14	S5.7	Are valid construction noise permit(s) displayed at all vehicular exits?		\checkmark		······
3.00		Water Quality				
3.01	S6.9	Is effluent discharge license obtained for wastewater discharge from site?		\checkmark		
3.02	S6.9	Is effluent discharged according to the effluent discharge license?				
3.03	S6.9	Is wastewater discharge from site properly treated prior to discharge?		\checkmark		Reminder 3



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No.		ntract no. 13/WSD/17 Design, Build and Operate First Stage of	N/A	Yes	No	Photo/Remarks
3.04	S6.9	Are perimeter channels provided to intercept storm runoff from outside the site?				
3.05	S6.9	Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to				
2.00	000	remove sand/silt particles from runoff?				
3.00	S6.9	Is surface runoff diverted to sedimentation facilities?		$\overline{\mathbf{\Lambda}}$		
3.07	S6.9	Is the drainage system properly maintained?				0 1
				\checkmark		Keminder 1
3.08	S6.9	Are construction works carefully programmed to minimize soil excavation works				
		during rainy seasons?				
3.09	\$6.9	Are exposed soil surface protected by paving as soon as possible to reduce the	i a			
2 4 0	64.0	potential of soil erosion?				
3.10	S6.9	Are temporary access roads protected by crushed gravel?				
3.11	S6.9	Are exposed along automatic to the second state of the second stat				
	00.9	Are exposed slope surface properly protected?	17			,
3.12	\$6.9	Is trench everytion quoided in the				
		Is trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation?	$\overline{\mathbf{X}}$		Π	
3.13	\$6.9					
		Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction?	∇	\square		
.14	\$6.9	Is runoff from wheel-washing facilities avoided?				
				\mathbf{V}	\square	
.15	\$6.9	Is oil leakage or spillage prevented?				
				\checkmark		Reminderl
.16	56.9	Are there any measures to prevent the release of oil and grease into the storm				
		drainage system?		\bigvee		
.17	\$6.9	Are the oil interceptors/ grease traps properly maintained?	-7			
			V			
18 5		Are debris and rubbish generated on site collected, handled and disposed of properly		-	[]	
		to avoid them entering the streams?		\bigvee	\square	Barren and a start
19 S		Are all fuel tanks and storage areas provided with locks and be sited on sealed areas,			<u> </u>	
		within bunds of capacity equal to 110% of the storage capacity of the largest tank?				
20 S	6.9	Are tanks, containers, storage area bunded and the locations locked as far as possible				
		from the sensitive watercourse and stormwater drains?		1/		
21 S		Are sufficient chemical toilets provided on site to handle sewage from construction				
		work force?		1/		
22 S		Are sewage disposal and toilet maintenance of the portable chemical toilets provided				
		by the licensed contractors?		V		
23 S	6.9	is concrete washing water properly collected and treated prior to discharge?	17	\square		
24 S	6.9	Is suitable type of silt curtains deployed during dredging to reduce the elevation of				
		suspended solids to nearby sensitive receivers?	1		\square	
	1	i man of the field of scheduler i cool vois?	Contraction of the local division of the loc	Local Andrews		



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	contr	act no. 15/W50/17 Design, build and operate rise ong		11	N.	Photo/Remarks
em lo.	EIA ref.		N/A	Yes	No	r loto/ Keinai Ks
.26	S6.9	Is closed grab dredger of 3 to 6 m ³ used for dredging at seawater intake?	\square			
.27	S6.9	Is specific work staff assigned the responsibility for monitoring the number of grab dredged per hour? Is number of cycle limited to 20-21 grab per hour for 3m ³ closed grab, 10-11 grab per hour for 6m ³ closed grab?				
.28	S6.9	Is the grab operated in slow and controlled manner such that the impact to seabed by the grab when being lowered could be minimized? Is the operator ensured the grab be properly closed before lifting the grab?				
3.29	S6.9	Is the maximum allowed dredging rate at the seawater intake limited to 750 m ³ /day while the maximum allowed dredging rate at the submarine outfall is 3,500 m ³ /day?				
3.30	S6.9	Is dredged marine sediment disposed of in a gazetted marine disposal area in accordance with marine dumping permit conditions of the Dumping at Sea Ordinance (DASO)?				
3.31	S6.9	Are disposal vessels fitted with tight bottom seals in order to prevent leakage of material during transport?				
3.32	S6.9	Are barges filled to a level which ensures that material does not spill over during transport to the disposal site and that adequate freeboard is maintained to ensure that the decks are not washed by wave action?				
3.33	S6.9	Are excess materials cleaned from decks and exposed fittings before the vessel is moved from the dredging area after dredging?				-
3.34	S6.9	Are the contractor(s) confirmed that the works cause no visible foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the dredging site?				
3.35	S6.9	When the dredged material has been unloaded at the disposal areas, is any material accumulated on the deck or other exposed parts of the vessel removed and placed in the hold or a hopper?				
3.36	S6.9	Is dredger maintained adequate clearance between vessels and the seabed at all states of the tide and reduce operations speed to ensure that excessive turbidity is not generated by turbulence from vessel movement or propeller wash?				
3.37	S6.9	Is the contractor shall regularly inspect the silt curtains and check that they are moored and marked to avoid danger to marine traffic? Is regular inspection on the integrity of the silt curtain carried out by the contractor and any damage to the silt curtain shall be repaired by the contractor promptly?		V		
3.38	S6.9	Are all vessels have a clean ballast system?	\checkmark			
3.39	9 S6.9	Are all vessels well maintained and inspected before use to limit any potential discharges to the marine environment?				
3.40	D S6.9	Is any discharge of sewage/grey wastewater? Is wastewater from potentially contaminated area on working vessels should be minimized and collected?	\square]
3.4	1 \$6.9	Is any soil waste disposed overboard?		Í]



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ltem	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
4.00		Waste Management				
4.01	S8.5	Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at				
		public filling facilities and landfills?				
				Ľ		
4.02	S8.5	Is a recording system implemented to record the amount of wastes generated, recycled and		F /1		
		disposed of?		V		
4.03	S8.5	IS the Contractor registered as a chemical waste producer?		1		
				\overline{V}		
4.04	S8.5	Are chemical waste separated from other waste and collected by a licensed chemical waste				
		collector?		V		
4.05	S8.5	Are trip tickets for chemical waste disposal available for inspection?		F		• • • • • • • • • • • • • • • • • • • •
				\mathbf{V}		
4.06	S8.5	Is chemical waste reused and recycled on site as far as practicable?		-		
4.07	S8.5	Are all containers for chemical waste properly labelled?				
		and property moonda.		\mathbf{V}		
4.08	58.5	Is chemical waste storage area used solely for storage of chemical waste and properly	المستجمعاً 			
	00.0	labelled?		∇		
100						
4.09	S8.5	Are incompatible chemical wastes stored in different areas?		$\overline{\mathbf{N}}$		
4.10	S8.5	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?		1		
				V		
4.11		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,		\checkmark		-
		whichever is the greatest, provide?				
4.12		Are a routine cleaning and maintenance programme implemented for drainage systems,				
		sump pits, and oil interceptors?		12		
4.13	S8.5	Are sufficient general refuse disposal/collection points provided on site?				
				4/		
4.14	S8.5	Is general refuse disposed of properly and regularly?		F /1		
				V		
4.15	58.5	Are appropriate measures adopted to minimize windblown litter and dust during				
		ransportation of waste?		V		
4.16	\$8.5	Are individual collectors for aluminum cans, plastic bottles and packaging material and	P	_		
		office paper provided to encourage waste segregation?		$h\Lambda$		
4.17		Are C&D wastes sorted on site?				
				∇	\square	
4.18	38.5	Are C&D waste disposed of properly?	است	<u> </u>		
		and own maste disposed of property?		∇		
110	19.5	1000		L <u>v</u>		
4.19 S		Are unused C&D materials or chemicals recycled or reused to reduce the quantity of waste?	$\overline{\Lambda}$			
100						
4.20 S	58.5	Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?		51		



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

Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
	{					
4.21	58.5	Are the construction materials stored properly to minimize the potential for damage or	Providence			
1.21	50.5	contamination?				
			L]		L	
4.22	S8.5	Is a dumping license obtained to deliver public fill to public filling areas?		\Box		
5.00		Landscape and Visual				
5.01	S11.10	Are Is site hoarding provided?				
	& 11.11					
5.02		Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?				
	11.11	Are vegetation distingance minimized of son protected to reduce potential son crosson?		. /		
		· · · · · · · · · · · · · · · · · · ·			<u> </u>	
		ls construction light oriented away from the sensitive receivers?				
	11.11					
5.04	S11.10	is grass hydroseeding provided to slopes as soon as the completion of works?				
	& 11.11			\mathbf{V}		
5.05	S11.10 &	Are damages to trees outside site boundary due construction works avoided?				
	11.11			\checkmark		
5.06	511 10 &	Is excavation works carried out manually instead of machinery operation within 2.5m				
0.00		vicinity of any preserved trees?				
5.07						
5.07		Are the retained and transplanted tree(s) properly protected and in good conditions?		7		
	11.11					
5.08	S11.10 &	Are surgery works carried out for damaged trees?				
-	11.11		Y.			.
6.00		Ecology				
6.01	S9.7	is site runoff properly treated to prevent any silly runoff?	pressonant of			
				1		
6.02	S0 7	Are silt trap installed and well-maintained?			Provide State	
0.02	55.7	Are sin nap instance and wen-maintaineu:		\bigvee		
				ا ست. ا	L	C
6.03	S9.7	Are stockpiles properly covered to avoid generating silty runoff?	1			
6.04	S9.7	Are construction works restricted to works area which are clearly defined?				
				V		Be were and the state of the st
6.05	S9.7	For slope mitigation works within the Clear Water Bay Country Park, are tree felling and				
		damages to trees, the exact locations of the flexible barrier foundation plates, soil nails and	\vee			
		rock dowels adjusted during detailed design, and a setback distance from existing trees is				
		recommended to be maintained as far as practical?				
6.06	S9.7	Are pruning of tree canopies along the alignment of the flexible barriers limited to a				
		minimum?	\bigvee			-
6.07	S9.7	Are the alignment of flexible barriers optimized to preserve all species of conservation				
		interest and minimize the impact to the existing vegetation as far as practicable? Are the				
		alignment of flexible barriers positioned at minimum 1.5 m in a radius away from these		han and		
		individuals?	1			
6.00	00.7					
0.08	S9.7	At the detailed design stage prior to the commencement of the slope mitigation works, is		1		
1	1	vegetation survey carried out at the slope mitigation areas within the Clear Water Bay		5/		

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Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
	1	Country Park to assess the condition and identify the location of each individual of				
		Marsdenia lachnostoma and other flora species of conservation interest that may be directly		2		
		affected by the construction works?				
6.09	S9.7	Is temporary fencing installed to fence off the concerned species either in groups of		.7		
		individually within the works area and in the close proximity to prevent from being		V		
		damaged and disturbed during construction? Is a sign identifying the site attached to the				
0.40	00.5	fence and flagging tape shall be attached to the individuals to visualize their locations?				
6.10	59.7	Is a specification for fencing and demarcating individuals of Marsdenai lachnostoma (or		$\overline{\mathbf{A}}$		
ŀ		other flora species of conservation interest, if found) adjacent to the proposed alignment of the flexible barriers prepared to protect the species?				
6.11	597	Is any induction training provided to all site personnel in order to brief them on this flora of				
	57.7	conservation interest including the locations and their importance?		\checkmark		
6.12	\$9.7	Is the resident site supervisory staff closely monitor the conditions of concerned				
		individuals during construction of flexible barriers in the close proximity?				
6.13	507	Are fences erected along the boundary of the works area before the commencement of				
0.10	55.7	works to prevent vehicle movements and encroachment of personnel onto adjacent areas?				
6.14	507	Is regular check of the work site boundaries performed to ensure that they are not breached				
0.14	59.7	and that damage does not occur to surrounding areas?		V		
6.15	507	Is any damage and disturbance avoided, particularly those caused by filling and illegal				
0.15	59.1	dumping, to the surrounding habitats through proper management of waste disposal?				
6.16	50 7	Are temporarily affected areas reinstated, particularly the habitats of plantation and				
0.10	57.7	shrubland-grassland immediately after completion of construction works, through on-site		\bigvee		
		tree/shrub planting?				
6.15	S9.7	Are affected habitats within the Clear Water Bay Country Bay reinstated by hydro-seeding	<u> </u>		—	
		and planting of climbers and native shrub seedlings where practical upon completion of the	\bigvee			
		slope mitigation works?				
7.00		Landfill Gas Hazard				
7.01	S12.7	Are the safety procedures implemented to minimise the risks of fires and explosions,		$\overline{\mathbf{N}}$	\square	
		asphyxiation of works and toxicity effects during all works?	L			
7.02	S12.7	Are the gas detection equipment and precautions being used during trenching and				
		excavation as well as creation of confined spaces?		\Box		
			L			2 <u></u>
7.03	S12.7	Are the training with regard to the awareness of potential hazards of working in				
		confined spaces provided from the Contractor to the workers?				
7.04	S12.7	Are the safety officers trained with regard to landfill gas and leachate related hazards		· · · · · · · · · · · · · · · · · · ·		
		and presented on the site throughout the works undertaken below grade?		5		
		т.,			L]	
7.05	S12.7	Are the all personnel working on site and all visitor made aware of the possibility of		/		
		ignition of gas, the possible presence of contaminated water and the need to avoid		\Box		
		physical contact?				



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

Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
7.06	\$12.7	Is the monitoring of landfill gas being undertaken in all excavations, manholes, chambers and any confined spaces?		\square		
7.07	S12.7	Are the monitoring frequency and areas being specified by the safety officers or appropriately qualified person? Are the all measurements being recorded and documented?				
	S12.7	Is the drilling proceeded with adequate care and precautions against the potential hazards?	Ţ.			
	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?				
	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?	\square			
	S12.7	Is each manhole or utility pit monitored with two measurements (at mid-depth and base) for minimum of 10 minutes? Is the steady reading and peak reading recorded at each manhole or utility pit?	\checkmark			
	S12.7	Are the warning signs of the hazards of landfill gas and its possible presence on site posted in prominent places?				
8.00 8.01		Overall Is the EM&A properly implemented in general?		\square		

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Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: Reninden 1.) The contractors are reminded to add sand bags on shotcaste the slope between the OLP Substation and the 2.) there have the frequency of water sproying along the main that have road for dust suppression. 3.) avoid punping water from Ro building to the baul road to prevent leakage to the nullah 4.) leed chemiect should be stored properly. Signatures: ET Contractor's Supervising Officer's IEC's WSD's Representative Representative Representative Representative Representative (Name: I Itan (son) (Name: Mame (Name: (Name:)) Ma Voli



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

WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspection Date: 101		2	Inspected by:	ET: H	Jacky Jacky Tutany Leur	SO: Mr. A IEC: Mr. F	Bermand Wik	WSD:
Weather	<u>C</u>							
Condition	Sunny	7ine	Overcast	Drizzle	Rain	Storm	Hazy	
Temperature	15 C		Humidity	High	Moderate	Low		
Wind	Calm	Light	Breeze	Strong				

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



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Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
1.13	S4.8.1	Are vehicles travelling at speed not exceeding 15km/hr within the site?		\square		
1.14	S4.8.1	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides?	\square			
1.15		Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?	\checkmark			
1.16		Are hoarding of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?	$\overline{\mathbf{V}}$			
1.17	S4.8.1	Is open burning prohibited?		\checkmark		
2.00		Construction Noise (Airborne)				······································
2.01		Are quiet plants adopted on site?		\checkmark		
2.02	S5.7	Are the PMEs operating on site well-maintained to minimize the generation of	[]			
		excessive niose?		\checkmark		
2.03	\$5.7	Are plants throttled down or turned off when not in use?		J		
2.04		Are the plants known to emit noise strongly in one direction oriented to face away from NSRs?				
2.05	S5.7	Are moveable barriers provided to screen NSRs from plant or noisy operations?				
2.06		Are silencers, mufflers and enclosures provided to plants?	Á			
2.07	S5.7	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?				
2.08		Are purposely-built sile hoarding construction with appropriate materials provided along the site boundary?		\square		
2.09	S5.7	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers?		\square		
2.10	S5.7	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?	\square			
2.11		Are valid noise emission label(s) affixed to all air compressors operating on site?	Ń			
2.12		Are all construction noise permit(s) applied for percussive piling work?	\Box			
2.13	S5.7	Are construction noise permit(s) applied for general construction works during restricted hours?		\checkmark		
2.14	S5.7	Are valid construction noise permit(s) displayed at all vehicular exits?		\square		
3.00		Water Quality				
	S6.9	Is effluent discharge license obtained for wastewater discharge from site?		\square		
3.02	S6.9	Is effluent discharged according to the effluent discharge license?		\checkmark		
3.03	S6.9	Is wastewater discharge from site properly treated prior to discharge?		\checkmark		



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Item EIA ref. Yes No Photo/Remarks N/A No 3.04 S6.9 Are perimeter channels provided to intercept storm runoff from outside the site? 3.05 S6.9 Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to remove sand/silt particles from runoff? 3.06 \$6.9 Is surface runoff diverted to sedimentation facilities? 3.07 S6.9 is the drainage system properly maintained? 3.08 \$6.9 Are construction works carefully programmed to minimize soil excavation works during rainy seasons? 3.09 \$6.9 Are exposed soil surface protected by paving as soon as possible to reduce the potential of soil erosion? 3.10 \$6.9 Are temporary access roads protected by crushed gravel? 3.11 \$6.9 Are exposed slope surface properly protected? 3.12 \$6.9 Is trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation? 3.13 \$6.9 Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction? 3.14 \$6.9 is runoff from wheel-washing facilities avoided? 3.15 S6.9 Is oil leakage or spillage prevented? 3.16 \$6.9 Are there any measures to prevent the release of oil and grease into the storm drainage system? 3.17 \$6.9 Are the oil interceptors/ grease traps properly maintained? 3.18 \$6.9 Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams? 3.19 \$6.9 Are all fuel tanks and storage areas provided with locks and be sited on sealed areas, within bunds of capacity equal to 110% of the storage capacity of the largest tank? 3.20 \$6.9 Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains? 3.21 \$6.9 Are sufficient chemical toilets provided on site to handle sewage from construction work force? 3.22 \$6.9 Are sewage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors? 3.23 \$6.9 Is concrete washing water properly collected and treated prior to discharge? 3.24 \$6.9 Is suitable type of silt curtains deployed during dredging to reduce the elevation of Reminder 1 suspended solids to nearby sensitive receivers? Is closed grab dredger used to reduce the potential leakage of sediments? 3.25 S6.9



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

ltem	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
3.26	S6.9	Is closed grab dredger of 3 to 6 m ³ used for dredging at seawater intake?				
3.27	S6.9	Is specific work staff assigned the responsibility for monitoring the number of grab dredged per hour? Is number of cycle limited to 20-21 grab per hour for 3m ³ closed grab, 10-11 grab per hour for 6m ³ closed grab?	Ń			
3.28	S6.9	Is the grab operated in slow and controlled manner such that the impact to seabed by the grab when being lowered could be minimized? Is the operator ensured the grab be properly closed before lifting the grab?	\square			
3.29		Is the maximum allowed dredging rate at the seawater intake limited to 750 m ³ /day while the maximum allowed dredging rate at the submarine outfall is 3,500 m ³ /day?				
3.30		Is dredged marine sediment disposed of in a gazetted marine disposal area in accordance with marine dumping permit conditions of the Dumping at Sea Ordinance (DASO)?	\checkmark			
3.31	S6.9	Are disposal vessels fitted with tight bottom seals in order to prevent leakage of material during transport?				
3.32	S6.9	Are barges filled to a level which ensures that material does not spill over during transport to the disposal site and that adequate freeboard is maintained to ensure that the decks are not washed by wave action?				
3.33	S6.9	Are excess materials cleaned from decks and exposed fittings before the vessel is moved from the dredging area after dredging?				-
3.34	S6.9	Are the contractor(s) confirmed that the works cause no visible foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the dredging site?				
3.35	S6.9	When the dredged material has been unloaded at the disposal areas, is any material accumulated on the deck or other exposed parts of the vessel removed and placed in the hold or a hopper?				
3.36	S6.9	Is dredger maintained adequate clearance between vessels and the seabed at all states of the tide and reduce operations speed to ensure that excessive turbidity is not generated by turbulence from vessel movement or propeller wash?				
3.37	S6.9	Is the contractor shall regularly inspect the silt curtains and check that they are moored and marked to avoid danger to marine traffic? Is regular inspection on the integrity of the silt curtain carried out by the contractor and any damage to the silt curtain shall be repaired by the contractor promptly?				
3.38	S6.9	Are all vessels have a clean ballast system?				
3.39	S6.9	Are all vessels well maintained and inspected before use to limit any potential discharges to the marine environment?				
	S6.9	Is any discharge of sewage/grey wastewater? Is wastewater from potentially contaminated area on working vessels should be minimized and collected?				
3.41	S6.9	Is any soil waste disposed overboard?				



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Imm ElAmE 0x Waste Management 4.00 St.5 is a tip-icket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills? 4.01 St.5 is a recording system implemented to record the amount of wastes generated, recycled and implemented to record the amount of wastes generated, recycled and implemented to record the amount of wastes generated, recycled and implemented to record the amount of wastes generated, recycled and implemented to record the amount of wastes generated, recycled and implemented to record the amount of wastes generated, recycled and implemented to record the amount of wastes generated, recycled and implemented to record the amount of wastes generated, recycled and implemented to record the amount of wastes generated, recycled and implemented to record the amount of wastes generated, recycled and implemented to record the amount of wastes generated, recycled and implemented to record the amount of wastes generated, recycled and implemented to record the amount of wastes generated, recycled and implemented to record the amount of wastes generated, recycled and implemented to record the amount of wastes at the discont and recycled on sile as far as practicable? 4.00 St.5 s chemical waste storage area enclosed on at kast 3 sides and adequately ventilaed? 4.00 St.5 s a impermeable floer and bunding, of espacity to accommodate 104 of the volume of he langes container or of 20% by volume of the chemical waste stored in that area, which waste storage area enclosed on sile? 4.10 St.5 A re aufficient general refuse disposal/collection points provided on	(Contra	ct no. 13/WSD/17 Design, build and operate the b	N/A	Yes	No	Photo/Remarks
1.00 Note that suggestion implemented to monitor the disposal of C&D and solid wastes at the dicket system implemented to record the anount of wastes generated, recycled and the system implemented to record the anount of wastes generated, recycled and the system implemented to record the anount of wastes generated, recycled and the system implemented to record the anount of wastes generated, recycled and the system implemented from other waste and collected by a licensed chemical waste collector? 4.02 S8.5 Are chemical waste separated from other waste and collected by a licensed chemical waste collector? Image: Collector? 4.03 S8.5 Are trip tickets for chemical waste disposal available for inspection? Image: Collector? 4.04 S8.5 Are trip tickets for chemical waste properly labelled? Image: Collector? 4.05 S8.5 is chemical waste result and recycled on all east far as practicable? Image: Collector? 4.05 S8.5 is chemical waste storage area used solely for storage of chemical waste and properly is abelled? Image: Collector? 4.06 S8.5 Are incompatible chemical waste stored on at least 3 sides and adequately wasting of the langes system. Image: Collector? 4.06 S8.5 Are incompatible chemical wastes stored in different areas? Image: Collector? 4.10 S8.5 Are information of a submiting. of cupacity to accommodate 110/V6 of the volume of the langeset container or of 200%	1	A ref.					
sliposci of?	.00	8.5	s a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills?				
4.04 S8.5 Are trip tickets for ohemical waste disposal available for inspection? Image: Collector? 4.05 S8.5 Are trip tickets for ohemical waste disposal available for inspection? Image: Collector? 4.06 S8.5 Are trip tickets for chemical waste disposal available for inspection? Image: Collector? 4.06 S8.5 Are trip tickets for chemical waste property labelled? Image: Collector? 4.07 S8.5 Are all containers for chemical waste property labelled? Image: Collector? 4.08 S8.5 S chemical waste storage area used solely for storage of chemical waste and property is belled? 4.08 S8.5 Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated? Image: Collector? 4.10 S8.5 Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated? Image: Collector? 4.11 S8.5 Are a routine cleaning and maintenance programme implemented for drainage systems. Image: Collector? 4.12 S8.5 Are a sufficient general refuse disposal/collection points provided on site? Image: Collectors? 4.12 S8.5 Are appropriate measures adopted to minimize windblown litter and dust during image: Collectors for aluminum cans, plasite botties and packaging material and foffice paper pr	1.02 S		disposed of?				
sollector?	4.03 S	8.5			М		
4.06 S8.5 is chemical waste reused and recycled on site as far as practicable? Image: Containers for chemical waste property labelled? 4.07 S8.5 Are all containers for chemical waste property labelled? Image: Containers for chemical waste property labelled? 4.08 S8.5 is chemical waste storage area used solely for storage of chemical waste and property indelled? Image: Containers for chemical waste storage area enclosed on at least 3 sides and adequately ventilated? 4.09 S8.5 Are incompatible chemical waste storage area enclosed on at least 3 sides and adequately ventilated? Image: Container or of 20% by volume of the chemical waste stored in that area. 4.10 S8.5 Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or of 20% by volume of the chemical waste stored in that area. Image: Container or of 20% by volume of the chemical waste stored in that area. 4.12 S8.5 Are a sufficient general refuse disposal/collection points provided on site? Image: Container or of 20% by volume of the chemical waste stored in that area. 4.12 S8.5 Are sufficient general refuse disposal/collection points provided on site? Image: Container or of 20% by volume of the chemical waste stored in that area. 4.14 S8.5 Are sufficient general refuse disposal/collection points provided on site? Image: Container or of 20% by volume of the chemical waste stored in site? <td>4.04</td> <td>58.5</td> <td>collector?</td> <td></td> <td></td> <td></td> <td></td>	4.04	58.5	collector?				
4.07 88.5 Are all containers for chemical waste property labelled? 4.08 88.5 1s chemical waste storage area used solely for storage of chemical waste and properly 4.08 88.5 1s chemical waste storage area used solely for storage of chemical waste and properly 4.09 58.5 Are incompatible chemical wastes stored in different areas? 4.10 58.5 Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated? 4.11 58.5 Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or of 20% by volume of the chemical waste stored in that area, whichever is the greatest, provide? 4.12 58.5 Are aroutine cleaning and maintenance programme implemented for drainage systems, and oil interceptors? 4.13 58.5 Are sufficient general refuse disposal/collection points provided on site? 4.13 58.5 Are sufficient general refuse disposal/collection points provided on site? 4.14 58.5 Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste? 4.16 58.5 Are C&D waste sorted on site? 4.17 58.5 Are C&D waste sorted on site? 4.18 58.5 Are C&D waste sorted on site? 4.18 <td< td=""><td>4.05</td><td>S8.5</td><td>Are trip tickets for chemical waste disposal available for inspection?</td><td></td><td>\square</td><td></td><td></td></td<>	4.05	S8.5	Are trip tickets for chemical waste disposal available for inspection?		\square		
4.08 S8.5 is chemical waste storage area used solely for storage of chemical waste and properly abelled? 4.09 S8.5 Are incompatible chemical wastes stored in different areas? Image: Compatible chemical wastes stored in different areas? 4.10 S8.5 Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated? Image: Compatible chemical waste storage area enclosed on at least 3 sides and adequately ventilated? 4.11 S8.5 Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or of 20% by volume of the chemical waste stored in that area, whichever is the greatest, provide? Image: Compatible chemical waste stored in that area, whichever is the greatest, provide? 4.12 S8.5 Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors? Image: Compatible chemical waste? 4.13 S8.5 Is general refuse disposed of properly and regularly? Image: Compatible chemical waste? 4.14 S8.5 Are appropriate measures adopted to minimize windblown litter and dust during compatible chemical waste? Image: Compatible chemical waste? 4.16 S8.5 Are c&D wastes sorted on site? Image: Compatible chemical chemical waste segregation? Image: Compatible chemical chemic	4.06	\$8.5	Is chemical waste reused and recycled on site as far as practicable?		V		
Iabelled? 4.09 S8.5 Are incompatible chemical wastes stored in different areas? 4.10 S8.5 Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated? 4.11 S8.5 Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or of 20% by volume of the chemical waste stored in that area, whichever is the greatest, provide? 4.12 S8.5 Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors? 4.13 S8.5 Are sufficient general refuse disposal/collection points provided on site? 4.14 S8.5 is general refuse disposed of properly and regularly? 4.15 S8.5 Are appropriate measures adopted to minimize windblown litter and dust during ransportation of waste? 4.16 S8.5 Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation? 4.17 S8.5 Are C&D waste disposed of properly? 4.18 S8.5 Are unused C&D materials or chemicals recycled or reused to reduce the quantity of undta?	4.07	S8.5	Are all containers for chemical waste properly labelled?		V		
4.10 S8.5 Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated? 4.11 S8.5 Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or of 20% by volume of the chemical waste stored in that area, whichever is the greatest, provide? 4.12 S8.5 Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors? 4.13 S8.5 Are sufficient general refuse disposal/collection points provided on site? 4.14 S8.5 Is general refuse disposed of properly and regularly? 4.15 S8.5 Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste? 4.16 S8.5 Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation? 4.17 S8.5 Are C&D waste disposed of properly? 4.18 S8.5 Are unused C&D materials or chemicals recycled or reused to reduce the quantity of the cleaning of the cleaning or chemicals recycled or reused to reduce the quantity of the cleaning of the cleaning or chemicals recycled or reused to reduce the quantity of the cleaning of the cleaning or chemicals recycled or reused to reduce the quantity of the cleaning of the cleaning or chemicals recycled or reused to reduce the quantity of the cleaning of the cleaning of the cleaning or chemicals recyclead or reused to reduce the quantity of the cleaning of the clea	4.08	S8.5		ly	V		
4.11 S8.5 Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or of 20% by volume of the chemical waste stored in that area, whichever is the greatest, provide? 4.12 S8.5 Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors? Image: Containing the cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors? 4.13 S8.5 Are sufficient general refuse disposal/collection points provided on site? Image: Containing the cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors? 4.13 S8.5 Are sufficient general refuse disposal/collection points provided on site? Image: Containing the cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors? 4.14 S8.5 Is general refuse disposal/collection points provided on site? Image: Containing the cleaning and maintenance programme implemented for drainage systems, sumption of waste? Image: Containing the cleaning and maintenance programme implemented for drainage systems, sumption of waste? 4.15 S8.5 Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation? Image: Containing the cleaning and the cleaning th	4.09	S8.5			V		
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4.12 S8.5 Are a routine cleaning and maintenance programme implemented for drainage systems.	4.11	S8.5	the largest container or of 20% by volume of the chemical waste stored in				
4.13 S8.5 Are sufficient general refuse disposal/collection points provided on site? Image: Collection points provided on site? 4.14 S8.5 Is general refuse disposed of properly and regularly? Image: Collection points provided on site? 4.14 S8.5 Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste? Image: Collection points provided on site? 4.16 S8.5 Are individual collectors for aluminum cans, plastic bottles and packaging material and poffice paper provided to encourage waste segregation? Image: Collection points? 4.17 S8.5 Are C&D wastes sorted on site? Image: Collection points? 4.18 S8.5 Are c&D waste disposed of properly? Image: Collection points? 4.19 S8.5 Are unused C&D materials or chemicals recycled or reused to reduce the quantity of properly? Image: Collection points?	4.12	S8.5	Are a routine cleaning and maintenance programme implemented for drainage syste	ms,			
4.15 S8.5 Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste? 4.16 S8.5 Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation? Image: Collector of the segregation of the secret of the segregation of the segregatio of the segregation of the segregation of the segregat	4.13	3 \$8.5	Are sufficient general refuse disposal/collection points provided on site?]
4.16 S8.5 Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation? Image: Collector of the collector	4.14	4 S8.5	is general refuse disposed of properly and regularly?				Reminder
4.17 S8.5 Are C&D wastes sorted on site? 4.18 S8.5 Are C&D waste disposed of properly? 4.19 S8.5 Are unused C&D materials or chemicals recycled or reused to reduce the quantity of uncte?	4.1	5 S8.5	transportation of waste?]
4.18 S8.5 Are C&D waste disposed of properly? Image: Comparison of the properly? 4.19 S8.5 Are unused C&D materials or chemicals recycled or reused to reduce the quantity of the properly?	4.1	6 S8.5	Are individual collectors for aluminum cans, plastic bottles and packaging material office paper provided to encourage waste segregation?				<u> </u>
4.19 S8.5 Are unused C&D materials or chemicals recycled or reused to reduce the quantity of	4.1	17 58.5					<u></u>
wasta?	4.	18 S8.5					
	4.	19 S8.5	waste?				
4.20 S8.5 Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?	4.	20 \$8.5	Waster Are public fill and C&D waste reuse on site as far as practicable to avoid disposal of	-site?			



Iten		Cont	ract no. 13/WSD/17 Design, Build and Operate First Stage o	of Tearma	V			ingrin.com
Iter No.	n cu	a rer.	i i i i i i i i i i i i i i i i i i i	N Iseung	KWa I/A	Yes	esalinati	on Plant
-	4					105	NO	Photo/Remarks
4.2	1 58.	5	Are the conclusion					
			Are the construction materials stored properly to minimize the potential for damag contamination?	e or	-			
4.2	2 58.5					\mathbf{V}		
			Is a dumping license obtained to deliver public fill to public filling areas?					
							\square	
5.00			Landscape and Visual				<u> </u>	
5.01	S11.		Are Is site hoarding provided?					
	& 11				1			
5.02	S11.1	0 8	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?		1			
					1	1		
5.03	S11.1	0 & 15	s construction light oriented away from the sensitive receivers?		1	V		
	11.11		source sensitive receivers?		1 1	-	<u> </u>	
.04	SI1.1	D Is	grass hydroseeding provided to slopes as soon as the completion of works?					
	& 11.1		provided to stopes as soon as the completion of works?		1			
05	S11.10	8 A.	re damages to trees outside size to			\vee		
	11.11		re damages to trees outside site boundary due construction works avoided?		r			
06	S11.10	& Ie	excavation moderning					
	11.11	Vic	excavation works carried out manually instead of machinery operation within 2.5n inity of any preserved trees?	n				
- 1			y of any preserved nees?					
	1.11		e the retained and transplanted tree(s) properly protected and in good conditions?				······································	
					R	7.		
	1.11	Are	surgery works carried out for damaged trees?				· · · ·	
0		-		∇				
	07		ology					
1 5	9.1	ls si	te runoff properly treated to prevent any silly runoff?			/		
	*****				Г	7 1		
2 5	9.7	Are	silt trap installed and well-maintained?					
				\square	Г	7 r	7	
S	9.7	Are	stockpiles properly covered to avoid generating silty runoff?		L			
		1		1	Г	ЛГ	7	
S	.7	Are	construction works restricted to works area which are clearly defined?		L			
			and which are clearly defined?		Г	7 5		
S 9	.7	For s	lope mitigation works within the Clear West		V	4 L		
		dama	lope mitigation works within the Clear Water Bay Country Park, are tree felling and ges to trees, the exact locations of the flexible barrier foundation plates, soil nails and dowels adjusted dowels.	1	-			
		rock	dowels adjusted during detailed design, and a setback distance from existing trees is	\checkmark	L			
		recom	imended to be maintained as far as practical?					
S9.	7	Are p	pruning of tree canopies along the alignment of the flexible barriers limited to a					
1		minim	num?	17	-			
S9.	7	Are th	te alignment of flexible berries estimine	V	L			
		nteres	te alignment of flexible barriers optimized to preserve all species of conservation		-			
		lignm	at and minimize the impact to the existing vegetation as far as practicable? Are the	1/		IL		
	h	ndivid	tent of flexible barriers positioned at minimum 1.5 m in a radius away from these luals?					
\$9.7								
	l.	egetat	detailed design stage prior to the commencement of the slope mitigation works, is			1 -		
			tion survey carried out at the slope mitigation areas within the Clear Water Bay		\bigvee			1

	lor a	attite and the far besign band and operate i not order of it	The second se	Statement of the local division of the	Jamiaci	/11 1 10/11
Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
	1	Country Park to assess the condition and identify the location of each individual of				
		Marsdenia lachnostoma and other flora species of conservation interest that may be directly		a.		
		affected by the construction works?				
6.09	597	Is temporary fencing installed to fence off the concerned species either in groups of			basedonations	
0.00	p.,,	individually within the works area and in the close proximity to prevent from being		$\overline{\Lambda}$		
		damaged and disturbed during construction? Is a sign identifying the site attached to the				
		fence and flagging tape shall be attached to the individuals to visualize their locations?				
6.10	S9.7	Is a specification for fencing and demarcating individuals of Marsdenai lachnostoma (or		$\overline{\Box}$		
ŀ		other flora species of conservation interest, if found) adjacent to the proposed alignment of				
		the flexible barriers prepared to protect the species?				
6.11	S9.7	Is any induction training provided to all site personnel in order to brief them on this flora of	· []			
		conservation interest including the locations and their importance?		V		
6.12	S9.7	is the resident site supervisory staff closely monitor the conditions of concerned		— 71		
		individuals during construction of flexible barriers in the close proximity?				
6.13	0.7					
0.13	59.7	Are fences erected along the boundary of the works area before the commencement of		\Box		
		works to prevent vehicle movements and encroachment of personnel onto adjacent areas?				
6.14	S9.7	Is regular check of the work site boundaries performed to ensure that they are not breached		T		
		and that damage does not occur to surrounding areas?				
6.15	\$9.7	Is any damage and disturbance avoided, particularly those caused by filling and illegal				
		dumping, to the surrounding habitats through proper management of waste disposal?				
6.16	07			./-		
0.10	59.7	Are temporarily affected areas reinstated, particularly the habitats of plantation and		$\overline{\Lambda}$		
		shrubland-grassland immediately after completion of construction works, through on-site	L		السيسا	
		tree/shrub planting?		Angelera (Incode - 1		
6.15	S9.7	Are affected habitats within the Clear Water Bay Country Bay reinstated by hydro-seeding	\square			
		and planting of climbers and native shrub seedlings where practical upon completion of the				
		slope mitigation works?				
7.00		Landfill Gas Hazard		/		
7.01	S12.7	Are the safety procedures implemented to minimise the risks of fires and explosions,		57		
		asphyxiation of works and toxicity effects during all works?				
7.02	\$12.7					
7.02		Are the gas detection equipment and precautions being used during trenching and				
		excavation as well as creation of confined spaces?		\checkmark		
7.03	S12.7	Are the training with regard to the awareness of potential hazards of working in				
		confined spaces provided from the Contractor to the workers?				
7.04	0107					
1.04	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?		V		
· ·						
7.05	S12.7	Are the all personnel working on site and all visitor made aware of the possibility of		7		
		ignition of gas, the possible presence of contaminated water and the need to avoid		\Box		
		physical contact?				



Contract no.	13/WSD/17 Desig	n. Build and Operation	te First Stage o	of Tseung Kwan	O Desalination Plant

ltem	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
	S 12.7	Is the monitoring of landfill gas being undertaken in all excavations, manholes, chambers and any confined spaces?		Ø		
7.07	S12.7	Are the monitoring frequency and areas being specified by the safety officers or appropriately qualified person? Are the all measurements being recorded and documented?	Ø			
		Is the drilling proceeded with adequate care and precautions against the potential hazards?	\Box			
		Is the method statement covering all normal and emergency procedures provided by the drilling contractorprior to the commencement of the site works?				
		Are the below groundservices entries being sealed to prevent gas entry? Are the grilled metal covers being used for below grade cable trenches?				
		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?				·
		Are the warning signs of the hazards of landfill gas and its possible presence on site posted in prominent places?				
8.00 8.01		Overall Is the EM&A properly implemented in general?				



Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: Reninden 1.) The contractors are reminded to remove the general refuse near the ActiOATT building. 2.) The contractors are reminded to repair the double silt curtain at the inland outfall. Signatures: FT Contractor's Supervising Officer's IEC's WSD's Representativ Representative Representative Representative Representative Lakib PHULYS HO (Name: They Trang (Mame:) (Name: (Name:)) (Name:) 1 ound)



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

WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspection Date: 17 Inspection Time: 141			Inspected by:	ET: H Contractor: H	Sward Chan Tottuny Tsay	SO: <u>Mr. k</u> IEC: <u>Mr.</u>	Lynond Holl WSD: Louis Kwon	
Weather	25 10 -20							
Condition				————				
Condition	/_Sunny	Fine	Overcast	Drizzle	Rain	Storm	Hazy	
Temperature	2 C		Humidity	High	Moderate	Low		
Wind	Calm	Light	Breeze	Strong				

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



Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
	S4.8.1	Are vehicles travelling at speed not exceeding 15km/hr within the site?				
1.14	S4.8.1	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides?		\checkmark		
1.15	S4.8.1	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?	\square			
1.16	S4.8.1	Are hoarding of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?	\checkmark			
1.17	S4.8.1	Is open burning prohibited?		\checkmark		
2.00		Construction Noise (Airborne)				
2.01	S5.7	Are quiet plants adopted on site?		\checkmark		
2.02	S5.7	Are the PMEs operating on site well-maintained to minimize the generation of excessive niose?				
2.03	S5.7	Are plants throttled down or turned off when not in use?		\checkmark		
2.04	S5.7	Are the plants known to emit noise strongly in one direction oriented to face away from NSRs?	\checkmark			
2.05	S5.7	Are moveable barriers provided to screen NSRs from plant or noisy operations?				
2.06	S5.7	Are silencers, mufflers and enclosures provided to plants?				
2.07	S5.7	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?				
2.08	S5.7	Are purposely-built site hoarding construction with appropriate materials provided along the site boundary?				
2.09	S5.7	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers?		\checkmark		
2.10	S5.7	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?	\checkmark			
2.11	S5.7	Are valid noise emission label(s) affixed to all air compressors operating on site?	\checkmark			
2.12	S5.7	Are all construction noise permit(s) applied for percussive piling work?	\checkmark			
2.13	S5.7	Are construction noise permit(s) applied for general construction works during restricted hours?		\square		
2.14	S5.7	Are valid construction noise permit(s) displayed at all vehicular exits?		\checkmark		
3.00		Water Quality				
3.01	S6.9	Is effluent discharge license obtained for wastewater discharge from site?		\checkmark		
3.02	S6.9	Is effluent discharged according to the effluent discharge license?		\checkmark		
3.03	S6.9	Is wastewater discharge from site properly treated prior to discharge?		\checkmark		



ltem No.	EIA ref.		N/A	Yes	No	Photo/Remarks
3.04	S6.9	Are perimeter channels provided to intercept storm runoff from outside the site?	\checkmark			
3.05	S6.9	Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to				
		remove sand/silt particles from runoff?		\checkmark		
3.06	S6.9	Is surface runoff diverted to sedimentation facilities?		\checkmark		
3.07	S6.9	Is the drainage system properly maintained?		\checkmark		
3.08	\$6.9	Are construction works carefully programmed to minimize soil excavation works				
		during rainy seasons?		\checkmark		
3.09	S6.9	Are exposed soil surface protected by paving as soon as possible to reduce the				
		potential of soil erosion?	\checkmark			
3.10	\$6.9	Are temporary access roads protected by crushed gravel?		\checkmark		
3.11	S6.9	Are exposed slope surface properly protected?	\checkmark			R
3.12	S6.9	Is trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation?		Π	Π	
3.13	S6.9	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction?	$\overline{\square}$	$\overline{\Box}$	$\overline{\Box}$	
3.14	S6.9	Is runoff from wheel-washing facilities avoided?				
3.15	S6.9	Is oil leakage or spillage prevented?				obs 1
3.16	S6.9	Are there any measures to prevent the release of oil and grease into the storm drainage system?		$\overline{\checkmark}$		
3.17	S6.9	Are the oil interceptors/ grease traps properly maintained?				
3.18	S6.9	Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams?		\square		
3.19	S6.9	Are all fuel tanks and storage areas provided with locks and be sited on sealed areas, within bunds of capacity equal to 110% of the storage capacity of the largest tank?		\checkmark		
3.20	S6.9	Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains?		\square		
3.21	S6.9	Are sufficient chemical toilets provided on site to handle sewage from construction			_	
		work force?		\checkmark		
3.22	\$6.9	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors?		\Box		
3.23	S6.9	Is concrete washing water properly collected and treated prior to discharge?				
5.24	S6.9	Is suitable type of silt curtains deployed during dredging to reduce the elevation of suspended solids to nearby sensitive receivers?				
3.25	S6.9	Is closed grab dredger used to reduce the potential leakage of sediments?				



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



ltem No.	EIA ref.		N/A	Yes	No	Photo/Remarks
4.00 4.01	S8.5	Waste Management Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills?				
4.02	\$8.5	Is a recording system implemented to record the amount of wastes generated, recycled and disposed of?		\square		
4.03	S8.5	IS the Contractor registered as a chemical waste producer?		\checkmark		
4.04	S8.5	Are chemical waste separated from other waste and collected by a licensed chemical waste collector?		\checkmark		
4.05	S8.5	Are trip tickets for chemical waste disposal available for inspection?				
4.06	S8.5	Is chemical waste reused and recycled on site as far as practicable?		V		
4.07	S8.5	Are all containers for chemical waste properly labelled?		\checkmark		
4.08	S8.5	Is chemical waste storage area used solely for storage of chemical waste and properly labelled?		\checkmark		
4.09	S8.5	Are incompatible chemical wastes stored in different areas?		\checkmark		
4.10	S8.5	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?		\checkmark		
4.11	S8.5	Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or of 20% by volume of the chemical waste stored in that area, whichever is the greatest, provide?		V		
4.12	S8.5	Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors?				
4.13	S8.5	Are sufficient general refuse disposal/collection points provided on site?		V		
4.14	\$8.5	Is general refuse disposed of properly and regularly?		\checkmark		
4.15	\$8.5	Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste?		\checkmark		Reminder 1
4.16	S8.5	Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation?		\checkmark		
4.17	\$8.5	Are C&D wastes sorted on site?		\square		
4.18	S8.5	Are C&D waste disposed of properly?		\checkmark		
4.19	S8.5	Are unused C&D materials or chemicals recycled or reused to reduce the quantity of waste?	\checkmark			
4.20	S8.5	Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?		\checkmark		



Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
4.21	S8.5	Are the construction materials stored properly to minimize the potential for damage or				
		contamination?				
4.22	S8.5	Is a dumping license obtained to deliver public fill to public filling areas?			-	
				\checkmark		
5.00		Landsons and Viewal	1			
	S11.10	Landscape and Visual				
0.01	& 11.11	Are Is site hoarding provided?				
-						
5.02		Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?		\Box		
	11.11					
5.03		Is construction light oriented away from the sensitive receivers?				
	11.11					
5.04	S11.10	Is grass hydroseeding provided to slopes as soon as the completion of works?				
	& 11.11			\checkmark		
5.05	S11.10 &	Are damages to trees outside site boundary due construction works avoided?				
	11.11			\checkmark		
5.06	S11.10 &	Is excavation works carried out manually instead of machinery operation within 2.5m				
	11.11	vicinity of any preserved trees?				
5.07	S11.10 &	Are the retained and transplanted tree(s) properly protected and in good conditions?				
	11.11	and in good conditions.		\checkmark		
5.08	S11 10 &	Are surgery works carried out for damaged trees?				
	11.11	ne surgery works carried out for damaged nees:				
6.00		Ecology				
6.01						
0.01	39.1	Is site runoff properly treated to prevent any silly runoff?				
				V		
6.02	S9.7	Are silt trap installed and well-maintained?				
				V		
6.03	S9.7	Are stockpiles properly covered to avoid generating silty runoff?				
			\mathbf{V}			
6.04	S9.7	Are construction works restricted to works area which are clearly defined?				
				\checkmark		
6.05	S9.7	For slope mitigation works within the Clear Water Bay Country Park, are tree felling and	F		_	
		damages to trees, the exact locations of the flexible barrier foundation plates, soil nails and				
		rock dowels adjusted during detailed design, and a setback distance from existing trees is				
		recommended to be maintained as far as practical?				
6.06	S9.7	Are pruning of tree canopies along the alignment of the flexible barriers limited to a				
		ninimum?	\checkmark			
6.07	S9.7	Are the alignment of flexible barriers optimized to preserve all species of conservation	5			
		nterest and minimize the impact to the existing vegetation as far as practicable? Are the	\vee			
		alignment of flexible barriers positioned at minimum 1.5 m in a radius away from these				
		ndividuals?				
6.08	S9.7	At the detailed design stage prior to the commencement of the slope mitigation works, is				
		regetation survey carried out at the slope mitigation areas within the Clear Water Bay		\checkmark		
					10.000	



Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
		Country Park to assess the condition and identify the location of each individual of Marsdenia lachnostoma and other flora species of conservation interest that may be directly affected by the construction works?				
6.09	S9.7	Is temporary fencing installed to fence off the concerned species either in groups of individually within the works area and in the close proximity to prevent from being damaged and disturbed during construction? Is a sign identifying the site attached to the fence and flagging tape shall be attached to the individuals to visualize their locations?		\square		
6.10	S9.7	Is a specification for fencing and demarcating individuals of Marsdenai lachnostoma (or other flora species of conservation interest, if found) adjacent to the proposed alignment of the flexible barriers prepared to protect the species?		\checkmark		
6.11	S9.7	Is any induction training provided to all site personnel in order to brief them on this flora of conservation interest including the locations and their importance?		\checkmark		
6.12	S9.7	Is the resident site supervisory staff closely monitor the conditions of concerned individuals during construction of flexible barriers in the close proximity?		\checkmark		
6.13	S9.7	Are fences erected along the boundary of the works area before the commencement of works to prevent vehicle movements and encroachment of personnel onto adjacent areas?		\square		
6.14	S9.7	Is regular check of the work site boundaries performed to ensure that they are not breached and that damage does not occur to surrounding areas?		\checkmark		
6.15	S9.7	Is any damage and disturbance avoided, particularly those caused by filling and illegal dumping, to the surrounding habitats through proper management of waste disposal?				
6.16	S9.7	Are temporarily affected areas reinstated, particularly the habitats of plantation and shrubland-grassland immediately after completion of construction works, through on-site tree/shrub planting?		\square		
6.15	S9.7	Are affected habitats within the Clear Water Bay Country Bay reinstated by hydro-seeding and planting of climbers and native shrub seedlings where practical upon completion of the slope mitigation works?	\checkmark			
7.00		Landfill Gas Hazard				
7.01	S12.7	Are the safety procedures implemented to minimise the risks of fires and explosions, asphyxiation of works and toxicity effects during all works?		\checkmark		
7.02	S12.7	Are the gas detection equipment and precautions being used during trenching and excavation as well as creation of confined spaces?		\checkmark		
7.03	S12.7	Are the training with regard to the awareness of potential hazards of working in confined spaces provided from the Contractor to the workers?		\checkmark		
7.04	S12.7	Are the safety officers trained with regard to landfill gas and leachate related hazards and presented on the site throughout the works undertaken below grade?		\checkmark		
7.05	\$12.7	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?		Ø		



Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
7.06	S12.7	Is the monitoring of landfill gas being undertaken in all excavations, manholes, chambers and any confined spaces?		\checkmark		
7.07	S12.7	Are the monitoring frequency and areas being specified by the safety officers or appropriately qualified person? Are the all measurements being recorded and documented?	\square			
7.08	S12.7	Is the drilling proceeded with adequate care and precautions against the potential hazards?				
7.09	S12.7	Is the method statement covering all normal and emergency procedures provided by the drilling contractor prior to the commencement of the site works?	\checkmark			
7.10	S12.7	Are the below ground services entries being sealed to prevent gas entry? Are the grilled metal covers being used for below grade cable trenches?				
7.11	S12.7	Is each manhole or utility pit monitored with two measurements (at mid-depth and base) for minimum of 10 minutes? Is the steady reading and peak reading recorded at each manhole or utility pit?	\checkmark			
7.12	S12.7	Are the warning signs of the hazards of landfill gas and its possible presence on site posted in prominent places?				
8.00 8.01		Overall Is the EM&A properly implemented in general?		V		



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Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: Reminder: 1. Contractor was reminded to clean the nuttate after havey rain strom and prek up the placets fences inside the nullesh. (near CLP substation & admin building) Observation 2 1. Drip tray should be provided for chemical Storage (RO building), and provide label for the chemical. Signatures: ET Contractor's Supervising Officer's IEC's WSD's Representative Representative Representative Representative Representative am (Name: (Name: Jourd Chan) (Name: ouis (Name: Tillin (Say)) (Name:) leh



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

Inspection Date: 24	50025 30 - 4:)) ())) (pp))	Inspected by:	ET: Jo Contractor: 3	ick Leung	SO: Raym IEC: Duy	and Lok Kirran	WSD:
Weather				A4 800 10				
Condition	Sunny	Fine	Overcast	Drizzle	Cain	Storm	Hazy	
Temperature	2/2 C		Humidity	High	Moderate	Low		
Wind	Calm	Light	Breeze	Strong				

WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Item	EIA ref.		21/4	Vee	N	
No.			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	1	Is ET Leader's log-book kept readily available for inspections?	<u> </u>	1		
				\bigvee		•
1.00		Construction Dust				
1.01	S4.8.1	Are dusty materials, such as excavated materials, building debris and construction	$\overline{\mathbf{N}}$			
		materials, and exposed earth surface properly covered to prevent dust emission?				
1.02	S4.8.1	Are screenings, enclosures, water spraying or vacuum cleaning devices provided to				
		dusty construction works for dust suppression?	$\overline{\mathbf{A}}$	\square		
		3		لمسل		
1.03	S4.8.1	Are fumes or smoke emitting plants or construction activities shielded by a screen?				•
1.04	S4.8.1	Are wheel-washing facilities with high-pressure water jets provided at all site exits?				
4.00		· · · · · · · · · · · · · · · · · · ·		$\mathbf{\nabla}$		
1.05	S4.8.1	Is wheel-washing provided to all vehicles leaving the site?	\square			
1.06	S4.8.1	Are road section near the site exit free from dusty material?	F			
				\vee		
1.07	S4.8.1	Are all main haul roads inside the site paved or sprayed with water to minimize dust	$\overline{\mathbf{A}}$			
4.00		emission during vehicle movement?				
1.08	S4.8.1	Are water spraying provided immediately prior to any loading or transfer of dusty	\bigtriangledown	\square		
1.00	S4.8.1	materials?	I			
1.09	54.8.1	Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site?				k
1.10	S4.8.1	Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of	- /1			
		boulders, poles, pillars sprayed with water to maintain the entire surface wet?				
1.11	S4.8.1	Is exposed earth properly treated within six months after the last construction activity	1			
		on site?	\square			
1.12	S4.8.1	Does the operation of plants on site free form dark smoke emission?				
-		1				



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Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						8
1.13	S4.8.1	Are vehicles travelling at speed not exceeding 15km/hr within the site?				
	S4.8.1	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides?				
		Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?				
		Are hoarding of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?	\square			
1.17	S4.8.1	ls open burning prohibited?		\square		-
2.00		Construction Noise (Airborne)				· · ·
2.01	S5.7	Are quiet plants adopted on site?		\square		
2,02	S5.7	Are the PMEs operating on site well-maintained to minimize the generation of excessive niose?		\square		
2.03	S5.7	Are plants throttled down or turned off when not in use?		\checkmark		
2.04		Are the plants known to emit noise strongly in one direction oriented to face away from NSRs?				
2.05	\$5.7	Are moveable barriers provided to screen NSRs from plant or noisy operations?				
		Are silencers, mufflers and enclosures provided to plants?	I			
2.07	S5.7	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?		V		
2.08	S5.7	Are purposely-built site hoarding construction with appropriate materials provided along the site boundary?				
2.09	\$5.7	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers?		\checkmark		
2.10	S5.7	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?	\checkmark			
2.11		Are valid noise emission label(s) affixed to all air compressors operating on site?				
2.12		Are all construction noise permit(s) applied for percussive piling work?	\square			
2.13		Are construction noise permit(s) applied for general construction works during restricted hours?		I		
2.14	S5.7	Are valid construction noise permit(s) displayed at all vehicular exits?		V		.
3.00		Water Quality				
3.01		Is effluent discharge license obtained for wastewater discharge from site?				
3.02	S6.9	Is effluent discharged according to the effluent discharge license?		\square		
3.03	S6.9	Is wastewater discharge from site properly treated prior to discharge?		Ø		



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EIA ref.	ract no. 13/WSD/17 Design, Build and Operate First Stage of Ts	N/A	Yes	No	Photo/Remarks
S6.9	Are perimeter channels provided to intercept storm runoff from outside the site?	\square			
S6.9	Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to	<u> </u>			
	remove sand/silt particles from runoff?		$\mathbf{\Lambda}$		P
S6.9	is surface runoff diverted to sedimentation facilities?				
		Ц	\swarrow		
S6.9	Is the drainage system properly maintained?		\square		
S6.9	Are construction works carefully programmed to minimize soil excavation works			[]	
	during rainy seasons?				989 1
\$6.9	Are exposed soil surface protected by paying as soon as possible to reduce the				······
	potential of soil erosion?	\square			
S6.9	Are temporary access roads protected by crushed gravel?				
					
S6.9	Are exposed slope surface properly protected?	$\overline{\mathbf{X}}$	Γ Π	\square	*
860	Is transh avaguation and its is the set of t				
	backfilled in short sections after excavation?	\checkmark			
S6.9	Are open stockpiles of construction materials on site covered by tarpaulin or similar			1	
	fabric during construction?				
S6.9	Is runoff from wheel-washing facilities avoided?				
S6.9	ls oil leakage or spillage prevented?				obs 1
S6.9	Are there any measures to prevent the release of oil and grease into the storm				
	drainage system?		\checkmark		
S6.9	Are the oil interceptors/ grease traps properly maintained?	\checkmark			
S6.9	Are debris and rubbish generated on site collected, handled and disposed of properly				
	to avoid them entering the streams?		\checkmark	Ш	Reminder)
			51		
					P
			$\overline{\Lambda}$	П	
			$\overline{\mathbf{A}}$		
			\bigvee		
S6.9	Is concrete washing water properly collected and treated prior to discharge?				
S6.9	Is suitable type of silt curtains deployed during dredging to reduce the elevation of	····/1			
	suspended solids to nearby sensitive receivers?	\mathbf{V}			
	\$6.9 \$6.9 \$6.9 \$6.9 \$6.9 \$6.9 \$6.9 \$6.9	S6.9 Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to remove sand/silt particles from runoff? S6.9 Is surface runoff diverted to sedimentation facilities? S6.9 Is the drainage system properly maintained? S6.9 Is the drainage system properly maintained? S6.9 Are construction works carefully programmed to minimize soil excavation works during rainy seasons? S6.9 Are construction works carefully programmed to minimize soil excavation works during rainy seasons? S6.9 Are exposed soil surface protected by paving as soon as possible to reduce the potential of soil erosion? S6.9 Are exposed solpe surface protected by crushed gravel? S6.9 Are exposed slope surface properly protected? S6.9 Are exposed slope surface properly protected? S6.9 Are exposed slope surface properly protected? S6.9 Are construction avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation? S6.9 Is runoff from wheel-washing facilities avoided? S6.9 Is oull leakage or spillage prevented? S6.9 Is oil leakage or spillage prevented? S6.9 Are there any measures to prevent the release of oil and grease into the storm drainage system? S6.9 Are the	S6.9 Are sand/silt removal facilities such as sand/silt raps and sediment basins provided to remove sand/silt particles from runoff? S6.9 is surface runoff diverted to sedimentation facilities? S6.9 is the drainage system properly maintained? S6.9 is the drainage system properly maintained? S6.9 Are construction works carefully programmed to minimize soil excavation works during rainy seasons? S6.9 Are construction works carefully programmed to minimize soil excavation works during rainy seasons? S6.9 Are construction works carefully programmed to minimize soil excavation works S6.9 Are exposed soil surface protected by paving as soon as possible to reduce the potential of soil erosion? S6.9 Are exposed slope surface properly protected? S6.9 Are exposed slope surface properly protected? S6.9 Is trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation? S6.9 Is runoff from wheel-washing facilities avoided? S6.9 Is runoff from wheel-washing facilities avoided? S6.9 Is oil leakage or spillage prevented? S6.9 Are there any measures to prevent the release of oil and grease into the storm drainage system? S6.9 Are there all tublish generated on site collected, handled and disposed	S6.9 Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to remove sand/silt particles from runoff? Image: Construction construction facilities? S6.9 is surface runoff diverted to sedimentation facilities? Image: Construction works carefully programmed to minimize soil excavation works S6.9 is the drainage system properly maintained? Image: Construction works carefully programmed to minimize soil excavation works S6.9 Are construction works carefully programmed to minimize soil excavation works Image: Construction works carefully programmed to minimize soil excavation works S6.9 Are temporary access roads protected by paving as soon as possible to reduce the potential of soil erosion? Image: Construction works carefully protected? S6.9 Are temporary access roads protected by crushed gravel? Image: Construction works carefully protected? S6.9 Are exposed slope surface properly protected? Image: Construction? S6.9 Are exposed slope surface properly protected? Image: Construction? S6.9 Are construction avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation? Image: Construction? S6.9 Is runoff from wheel-washing facilities avoided? Image: Construction? S6.9 Is oil leakage or spillage prevented? Image: Construction?	S6.9 Are sand/silt environment of the protected by crushed gravel? Image: solution of the section and solution of the section of the sectic of the section of the sectificat to the secti



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Contract no.	13/WSD/17 Design.	Build and Operate	First Stage of Tseun	g Kwan O Desalination Plant
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Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
3.26	S6.9	Is closed grab dredger of 3 to 6 m ³ used for dredging at seawater intake?	\square			
3.27		Is specific work staff assigned the responsibility for monitoring the number of grab dredged per hour? Is number of cycle limited to 20-21 grab per hour for 3m ³ closed grab, 10-11 grab per hour for 6m ³ closed grab?				
3.28		Is the grab operated in slow and controlled manner such that the impact to seabed by the grab when being lowered could be minimized? Is the operator ensured the grab be properly closed before lifting the grab?				
3.29		Is the maximum allowed dredging rate at the seawater intake limited to 750 m ³ /day while the maximum allowed dredging rate at the submarine outfall is 3,500 m ³ /day?				
3.30		Is dredged marine sediment disposed of in a gazetted marine disposal area in accordance with marine dumping permit conditions of the Dumping at Sea Ordinance (DASO)?				
3.31		Are disposal vessels fitted with tight bottom seals in order to prevent leakage of material during transport?				
3.32		Are barges filled to a level which ensures that material does not spill over during transport to the disposal site and that adequate freeboard is maintained to ensure that the decks are not washed by wave action?		·		
3.33		Are excess materials cleaned from decks and exposed fittings before the vessel is moved from the dredging area after dredging?	\square			
3.34		Are the contractor(s) confirmed that the works cause no visible foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the dredging site?		\square		
3.35		When the dredged material has been unloaded at the disposal areas, is any material accumulated on the deck or other exposed parts of the vessel removed and placed in the hold or a hopper?				
3.36	S6.9	Is dredger maintained adequate clearance between vessels and the seabed at all states of the tide and reduce operations speed to ensure that excessive turbidity is not generated by turbulence from vessel movement or propeller wash?				
3.37	S6.9	Is the contractor shall regularly inspect the silt curtains and check that they are moored and marked to avoid danger to marine traffic? Is regular inspection on the integrity of the silt curtain carried out by the contractor and any damage to the silt curtain shall be repaired by the contractor promptly?				
3.38	S6.9	Are all vessels have a clean ballast system?				
3.39	S6.9	Are all vessels well maintained and inspected before use to limit any potential discharges to the marine environment?				
3.40	S6.9	Is any discharge of sewage/grey wastewater? Is wastewater from potentially contaminated area on working vessels should be minimized and collected?				
3.41	S6.9	Is any soil waste disposed overboard?				



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	Contra	act no. 13/WSD/1/ Design, build and Operate Filesone	N/A	Yes	No	Photo/Remarks
em E	ELA ref.					
.00	\$8.5	Waste Management Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills?				
4.02	S8.5	Is a recording system implemented to record the amount of wastes generated, recycled and disposed of?				
4.03	S8.5	IS the Contractor registered as a chemical waste producer?				
4.04	S8.5	Are chemical waste separated from other waste and collected by a licensed chemical waste collector?				
4.05	S8.5	Are trip tickets for chemical waste disposal available for inspection?				
4.06	S8.5	is chemical waste reused and recycled on site as far as practicable?		\square		
4.07	S8.5	Are all containers for chemical waste properly labelled?		\square		
4.08	S8.5	is chemical waste storage area used solely for storage of chemical waste and proper labelled?	ly	$\overline{\mathcal{N}}$		
4.09	9 S8.5	Are incompatible chemical wastes stored in different areas?		1		
4.10	D S8.5	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?				
4.1	1 S8.5	Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume the largest container or of 20% by volume of the chemical waste stored in that an whichever is the greatest, provide?				
4.1	2 \$8.5	Are a routine cleaning and maintenance programme implemented for drainage syste sump pits, and oil interceptors?	ms,	V		
4.1	13 S8.5	Are sufficient general refuse disposal/collection points provided on site?]
4.	14 S8.5	Is general refuse disposed of properly and regularly?			7 C]
4.	15 S8.5	Are appropriate measures adopted to minimize windblown litter and dust du transportation of waste?]
4	.16 \$8.5	Are individual collectors for aluminum cans, plastic bottles and packaging materia office paper provided to encourage waste segregation?				
4	.17 \$8.5					
4	1.18 S8.5					
ŀ	4.19 \$8.5	support of	-0			
ŀ	4.20 58.	on site as far as practicable to avoid disposal of	F-site?] [$\overline{\mathbf{A}}$	



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ltem I	EIA ref.	tract no. 13/WSD/17 Design, Build and Operate First Stage o	of Tseung	Kwan (0 De	esalinat	tion Plant
No.			N/	/A Y	es	No	Photo/Remarks
4.21 S	8.5	Are the construction materials in the					
		Are the construction materials stored properly to minimize the potential for damage contamination?	e or		7		
4.22 5	0 5						
1.22 00	0.5	Is a dumping license obtained to deliver public fill to public filling areas?			-	f	
					71		
.00		Landscape and Visual					
.01 SI		Are Is site hoarding provided?					
	11.11		- 1				
			.7		7	\square	
.02 51	1.10 &	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?					
					7		1)
03 511	.10 & 19	s construction light oriented away from the sensitive receivers?			1		Keminder
11.1	11	stantine sensitive receivers?		-	7	<u> </u>	
04 511	.10 Is	grass hydrograding and it to	V	L			
& 1		grass hydroseeding provided to slopes as soon as the completion of works?	1-				
1				7	1		
5 511.	IU &AI	re damages to trees outside site boundary due construction works avoided?		K	1		
				17	1		1) / 1
6 SI1.	10 & Is	excavation works carried out manually instead of machinery operation within 2.5m		17			Kennyler
11.11	l vic	inity of any preserved trees?					
7 SIL	0 & Ar	a the rate incl					
11.11	T	e the retained and transplanted tree(s) properly protected and in good conditions?					********
				Z			
511.1	0 & Are	surgery works carried out for damaged trees?			1		Barris Carlos Ca
-11.11			$\overline{7}$		٢		
	Eco	ology			L		
S9.7	is si	te runoff properly treated to prevent any silly runoff?					
		roperty searce to prevent any silly runoff?					
S9.7	-			17	Γ		
59.1	Are.	silt trap installed and well-maintained?	<u> </u>		L	<u> </u>	
				17	Г	7	
S9.7	Ares	stockpiles properly covered to avoid generating silty runoff?			L		
		Britering stry fullon?	$\overline{7}$		Г		
S9.7	Are c	construction works restricted to use 1	\checkmark		L		
		construction works restricted to works area which are clearly defined?					
S9.7	Ford						
[den s	lope mitigation works within the Clear Water Bay Country Park, are tree felling and			L		
		and to trees, the exact locations of the flexible barrier foundation			Г		
		adjusted during detailed design, and a setback distance from quint			L		
		to be manhamed as far as practical?					
\$9.7	Are p	runing of tree canopies along the alignment of the flexible barriers limited to a					
	minim	um?	17		Г	-	
\$9.7	Are th	e alignment of flowible have in the	V		L		
	interes	e alignment of flexible barriers optimized to preserve all species of conservation					
		and an analyze the impact to the existing vegetation as for an an	\vee		Г	1	
	-	tomore particles positioned at minimum 15 m in a medius	<u><u><u></u></u></u>		L		
0.7							
9.7	At the	detailed design stage prior to the commencement of the slope mitigation works, is			_		
	vegetat	ion survey carried out at the slope mitigation areas within the Clear Water Bay		1	Г	7	
		a cas within the Clear Water Bay		V	1	1	



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Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
	1	Country Park to assess the condition and identify the location of each individual of				
		Marsdenia lachnostoma and other flora species of conservation interest that may be directly				
		affected by the construction works?				
6.09	S9.7	Is temporary fencing installed to fence off the concerned species either in groups of				
		individually within the works area and in the close proximity to prevent from being		V		-
		damaged and disturbed during construction? Is a sign identifying the site attached to the				
0.40	00.7	fence and flagging tape shall be attached to the individuals to visualize their locations?				
6.10	59.7	Is a specification for fencing and demarcating individuals of Marsdenai lachnostoma (or other flora species of conservation interest, if found) adjacent to the proposed alignment of		$\overline{\mathbf{N}}$		
		the flexible barriers prepared to protect the species?	[
6.11	\$9.7	Is any induction training provided to all site personnel in order to brief them on this flora of		F 7-1		
		conservation interest including the locations and their importance?		\bigvee		
6.12	\$9.7	is the resident site supervisory staff closely monitor the conditions of concerned				
		individuals during construction of flexible barriers in the close proximity?		\mathbf{A}		
6.13	S9.7	Are fences erected along the boundary of the works area before the commencement of		F		
		works to prevent vehicle movements and encroachment of personnel onto adjacent areas?		\checkmark		
6.14	\$9.7	Is regular check of the work site boundaries performed to ensure that they are not breached		F 71		
		and that damage does not occur to surrounding areas?		\checkmark		
6.15	\$9.7	Is any damage and disturbance avoided, particularly those caused by filling and illegal		F 71	·1	
		dumping, to the surrounding habitats through proper management of waste disposal?		\mathbf{V}		
6.16	S9.7	Are temporarily affected areas reinstated, particularly the habitats of plantation and		5.7		
		shrubland-grassland immediately after completion of construction works, through on-site		V		
		tree/shrub planting?				
6.15	S9.7	Are affected habitats within the Clear Water Bay Country Bay reinstated by hydro-seeding				
		and planting of climbers and native shrub seedlings where practical upon completion of the	\sim			
		slope mitigation works?				
7.00		Landfill Gas Hazard				
7.01	S12.7	Are the safety procedures implemented to minimise the risks of fires and explosions,		\square		
		asphyxiation of works and toxicity effects during all works?				
7.02	S12.7	Are the gas detection equipment and precautions being used during trenching and		1		
		excavation as well as creation of confined spaces?		\vee		
7.03	S12.7	Are the training with regard to the awareness of potential hazards of working in				
		confined spaces provided from the Contractor to the workers?		V		
7.04	S12.7	Are the safety officers trained with regard to landfill gas and leachate related hazards				
		and presented on the site throughout the works undertaken below grade?		V		
7.05	S12.7	Are the all personnel working on site and all visitor made aware of the possibility of				
		ignition of gas, the possible presence of contaminated water and the need to avoid		\checkmark		
		physical contact?		-		



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ltem	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
7.06	\$12.7	Is the monitoring of landfill gas being undertaken in all excavations, manholes, chambers and any confined spaces?				
7.07	S12.7	Are the monitoring frequency and areas being specified by the safety officers or appropriately qualified person? Are the all measurements being recorded and documented?				
7.08		Is the drilling proceeded with adequate care and precautions against the potential hazards?				
		Is the method statement covering all normal and emergency procedures provided by the drilling contractor prior to the commencement of the site works?				
		Are the below groundservices entries being sealed to prevent gas entry? Are the grilled metal covers being used for below grade cable trenches?	V			
		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?	V			
		Are the warning signs of the hazards of landfill gas and its possible presence on site posted in prominent places?		∇		
8 .00 8.01		Overall Is the EM&A properly implemented in general?		\checkmark		



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Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: Observation 1.) The contractors are reminded to provide dip traps for the oil drums near the power generation near outfall Reminder) The contractors are reminded to protect/praide protection atom of the trees atom between the in the work area particulation of the Country Park. contractors are reminded to remove the fence Signatures: FT Contractor's Supervising Officer's IEC's WSD's Representati Representative Representative. Representative Representative (Name: Name (Name: (Name: ouis)) Coh

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

WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspection Date: 3/1	051202:	2	Inspected by:	ET: Joc Contractor: JE	Ky Lang	SO: Raym		WSD: C.S. Kull
Inspection Time: <u> </u>	15 - 10:3	2		Contractor HQL	my serry		2 ALAMONT	
Weather	1							
Condition	Sunny	Fine	Overcast	Drizzle	Rain	Storm	Hazy	
Temperature	3 c		Humidity	High	Moderate	Low		
Wind	Calm	Light	Breeze	Strong				

l tem No.	EIA ret.		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?		$\overline{\mathcal{A}}$		
0.02		Is ET Leader's log-book kept readily available for inspections?		\square		
1.00		Construction Dust				
1.01	S4.8.1	Are dusty materials, such as excavated materials, building debris and construction materials, and exposed earth surface properly covered to prevent dust emission?	\checkmark			<u>.</u>
1.02		Are screenings, enclosures, water spraying or vacuum cleaning devices provided to dusty construction works for dust suppression?				
1.03	S4.8.1	Are fumes or smoke emitting plants or construction activities shielded by a screen?	\square			
1.04	S4.8.1	Are wheel-washing facilities with high-pressure water jets provided at all site exits?		Ø		
1.05	S4.8.1	Is wheel-washing provided to all vehicles leaving the site?		\bigtriangledown		
1.06	S4.8.1	Are road section near the site exit free from dusty material?		\square		
1.07		Are all main haul roads inside the site paved or sprayed with water to minimize dust emission during vehicle movement?		\square		
1.08	S4.8.1	Are water spraying provided immediately prior to any loading or transfer of dusty materials?	\square			
1.09	S4.8.1	Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site?	·□	\square		
1.10		Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of boulders, poles, pillars sprayed with water to maintain the entire surface wet?	\square			
1.11	S4.8.1	Is exposed earth properly treated within six months after the last construction activity on site?				p
1.12	S4.8.1	Does the operation of plants on site free form dark smoke emission?				



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

Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
1.13	S4.8.1	Are vehicles travelling at speed not exceeding 15km/hr within the site?		\checkmark		B-1
	\$4.8.1	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides?	\checkmark			
1.15	S4.8.1	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?				
	S4.8.1	Are hoarding of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?	\square			
1.17	S4.8.1	Is open burning prohibited?		$\overline{\nabla}$		
2.00		Construction Noise (Airborne)				· · ·
	S5.7	Are quiet plants adopted on site?		\bigtriangledown		
2.02	\$5.7	Are the PMEs operating on site well-maintained to minimize the generation of				
		excessive niose?		\lor		
2.03	S5.7	Are plants throttled down or turned off when not in use?	[]			
				44		
2.04		Are the plants known to emit noise strongly in one direction oriented to face away from NSRs?			·	
2.05	S5.7	Are moveable barriers provided to screen NSRs from plant or noisy operations?				
2.06	S5.7	Are silencers, mufflers and enclosures provided to plants?	V			
2.07	S5.7	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?		N		
2.08		Are purposely-built site hoarding construction with appropriate materials provided along the site boundary?		$\overline{\mathbb{N}}$	Π	
2.09	\$5.7	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers?		$\overline{\checkmark}$		
2.10		Are valid noise emission label(s) affixed to all hand-held breakers operating on site?	V			
2.11		Are valid noise emission label(s) affixed to all air compressors operating on site?				
2.12		Are all construction noise permit(s) applied for percussive piling work?	M			
2.13	S5.7	Are construction noise permit(s) applied for general construction works during restricted hours?		\checkmark		
2.14	S5.7	Are valid construction noise permit(s) displayed at all vehicular exits?				
3.00		Water Quality				
3.01	S6.9	Is effluent discharge license obtained for wastewater discharge from site?		\square		
3.02	S6.9	Is effluent discharged according to the effluent discharge license?		\square		
3.03	S6.9	Is wastewater discharge from site properly treated prior to discharge?		\square		
CAS STOCKED V				and the second se		



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Contract no. 13/WSD/17 Design Build and Operate First Stage of Tsoung Kuan O D

tem	EIA ref.	tract no. 13/WSD/17 Design, Build and Operate First Stage of T	N/A	Yes	No	Photo/Remarks
No.						
3.04	S6.9	Are perimeter channels provided to intercept storm runoff from outside the site?	$\overline{\Lambda}$			
3.05	S6.9	Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to				h t
		remove sand/silt particles from runoff?				
3.06	S6.9	Is surface runoff diverted to sedimentation facilities?			ł	
				\bigtriangledown		-
3.07	S6.9	is the drainage system properly maintained?		\square		
3.08	S6.9	Are construction works carefully programmed to minimize soil excavation works		FA		
		during rainy seasons?		\bigvee		¥
3.09	\$6.9	Are exposed soil surface protected by paving as soon as possible to reduce the				
		potential of soil erosion?	\checkmark			
3.10	S6.9	Are temporary access roads protected by crushed gravel?		<u> </u>		
				\square		
3.11	S6.9	Are exposed slope surface properly protected?				,
0.15			4			
3.12	S6.9	Is trench excavation avoided in the wet season as far as practicable, or if necessary,				
		backfilled in short sections after excavation?				
3.13	S6.9	Are open stockpiles of construction materials on site covered by tarpaulin or similar				
		fabric during construction?				
3.14	S6.9	Is runoff from wheel-washing facilities avoided?		Tr		
				$\downarrow \square$		8
3.15	S6.9	Is oil leakage or spillage prevented?		1		
				\bigvee		
3.16	S6.9	Are there any measures to prevent the release of oil and grease into the storm				
		drainage system?	\checkmark			6-1-1-1
3.17	S6.9	Are the oil interceptors/ grease traps properly maintained?	-/			
3.18	S6.9	Are debris and rubbish generated on site collected, handled and disposed of properly				1
		to avoid them entering the streams?				Peminder
3.19	S6.9	Are all fuel tanks and storage areas provided with locks and be sited on sealed areas,		<u>í</u>		
		within bunds of capacity equal to 110% of the storage capacity of the largest tank?		\bigvee		
3.20		Are tanks, containers, storage area bunded and the locations locked as far as possible		<u></u>		an and a state of the state of the state of the
		from the sensitive watercourse and stormwater drains?		V		
.21		Are sufficient chemical toilets provided on site to handle sewage from construction			F	
		work force?		\mathcal{N}		
.22	S6.9	Are sewage disposal and toilet maintenance of the portable chemical toilets provided				
		by the licensed contractors?		\mathbf{N}		
.23	S6.9	Is concrete washing water properly collected and treated prior to discharge?	57			
24	06.0					
.24		Is suitable type of silt curtains deployed during dredging to reduce the elevation of	$\overline{7}$			
		suspended solids to nearby sensitive receivers?				
.25		Is closed grab dredger used to reduce the potential leakage of sediments?	2		and the second se	the second se



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

ltem No.	EIA ref.		N/A	Yes	No	Photo/Remarks
	S6.9	Is closed grab dredger of 3 to 6 m ³ used for dredging at seawater intake?	— 71			
3.27	S6.9	Is specific work staff assigned the responsibility for monitoring the number of grab	\Box			
		dredged per hour? Is number of cycle limited to 20-21 grab per hour for 3m ³ closed			L1	
		grab, 10-11 grab per hour for 6m ³ closed grab?				
3.28	S6.9	Is the grab operated in slow and controlled manner such that the impact to seabed by		\square		
		the grab when being lowered could be minimized? Is the operator ensured the grab be	13. <u>1</u>		Bear-and	
		properly closed before lifting the grab?				a year de la la canada de la can
3.29	S6.9	Is the maximum allowed dredging rate at the seawater intake limited to 750 m ³ /day	N/			
		while the maximum allowed dredging rate at the submarine outfall is 3,500 m ³ /day?				
3.30	S6.9	Is dredged marine sediment disposed of in a gazetted marine disposal area in	$\overline{\mathbf{N}}$	\square		
		accordance with marine dumping permit conditions of the Dumping at Sea Ordinance	-	L		
		(DASO)?				
3.31	S6.9	Are disposal vessels fitted with tight bottom seals in order to prevent leakage of	17	\square		
		material during transport?				
3.32	S6.9	Are barges filled to a level which ensures that material does not spill over during	.7	\square		
		transport to the disposal site and that adequate freeboard is maintained to ensure that	₩	LI	L	
		the decks are not washed by wave action?				
3.33	S6.9	Are excess materials cleaned from decks and exposed fittings before the vessel is	N/			
		moved from the dredging area after dredging?				
3.34	S6.9	Are the contractor(s) confirmed that the works cause no visible foam, oil, grease,		$\sqrt{1}$		
		litter or other objectionable matter to be present in the water within and adjacent			I	
		to the dredging site?				
3.35	S6.9	When the dredged material has been unloaded at the disposal areas, is any material	$\overline{\mathbf{N}}$			
		accumulated on the deck or other exposed parts of the vessel removed and placed in		[]		
		the hold or a hopper?				
3.36	S6.9	Is dredger maintained adequate clearance between vessels and the seabed at all states	∇			
		of the tide and reduce operations speed to ensure that excessive turbidity is not				
		generated by turbulence from vessel movement or propeller wash?				100 % 11 11 10 10 10 10 10 10 10 10 10 10 10
3.37	S6.9	Is the contractor shall regularly inspect the silt curtains and check that they are	17			
		moored and marked to avoid danger to marine traffic? Is regular inspection on the				
		integrity of the silt curtain carried out by the contractor and any damage to the silt				
-		curtain shall be repaired by the contractor promptly?				
3.38	S6.9	Are all vessels have a clean ballast system?	$\overline{\nabla}$			
					L	
3.39	S6.9	Are all vessels well maintained and inspected before use to limit any potential				
		discharges to the marine environment?			J	
3.40	S6.9	Is any discharge of sewage/grey wastewater? Is wastewater from potentially				
		contaminated area on working vessels should be minimized and collected?			L	
3.41	S6.9	Is any soil waste disposed overboard?				
	1					

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sign, Build and Operate First Stage of Tseung Kwan O Desalination Plant - lam D

	Contra	act no. 13/WSD/17 Design, Build and Operate Theorem	N/A	Yes	No	Photo/Remarks
	A ref.					
00 01 S	8.5	Waste Management Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills?				
02 S		is a recording system implemented to record the amount of wastes generated, recycled and disposed of?			·□	
.03 S	8.5	IS the Contractor registered as a chemical waste producer?				
.04 5	\$8.5	Are chemical waste separated from other waste and collected by a licensed chemical waste collector?				
.05	\$8.5	Are trip tickets for chemical waste disposal available for inspection?				
4.06	S8.5	Is chemical waste reused and recycled on site as far as practicable?				
4.07	S8.5	Are all containers for chemical waste properly labelled?		\square		
4.08	S8.5	is chemical waste storage area used solely for storage of chemical waste and properly labelled?		\square		
4.09	S8.5	Are incompatible chemical wastes stored in different areas?		∇		
4.10	S8.5	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?		∇		
4.11	S8.5	Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or of 20% by volume of the chemical waste stored in that are whichever is the greatest, provide?		∇		
4.12	S8.5	Are a routine cleaning and maintenance programme implemented for drainage system sump pits, and oil interceptors?	is,	\bigvee		<u> </u>
4.13	58.5	Are sufficient general refuse disposal/collection points provided on site?		\Box]
4.14	4 S8.5	Is general refuse disposed of properly and regularly?			1	Reminder
4.1	5 S8.5	Are appropriate measures adopted to minimize windblown litter and dust dur transportation of waste?]
4.1	6 S8.5	Are individual collectors for aluminum cans, plastic bottles and packaging material a office paper provided to encourage waste segregation?				
4.1	7 58.5	Are C&D wastes sorted on site?				
4.1	18 S8.5					
4.1	19 58.5	waste?				
4.	20 58.5	state of the second sec	site?		ΔL	



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ltem	EIA	ontract no. 13/WSD/17 Design, Build and Operate First Stage o	
No.			N/A Yes No Photo/Remarks
	1		
4.21	S8.5	the the construction materials stored properly to minimize the notaction for the	
4.22	S8.5	is a dumping license obtained to deliver public fill to public filling areas?	
		, and an option chining areas?	
5.00	1	Landscape and Visual	
5.01	S11.1	0 Are Is site hoarding provided?	
	& 11.	11	
5.02	S11.1	9 & Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?	
	11.11	solution in a solution of solution protected to reduce potential soil erosion?	
.03	S11.10	& Is construction light oriented away from the sensitive receivers?	
	11.11	b and and from the sensitive receivers?	
.04	S11.10	Is grass hydroseeding provided to slopes as soon as the completion of works?	
8	£ 11.1	1	
05 S	511.10	& Are damages to trees outside site boundary due construction works avoided?	
1	1.11	de consultant y de consultation works avoided?	
06 S	11.10	&Is excavation works carried out manually instead of machinery operation within 2.5r	L L Leminder
		for any preserved trees?	
07 S	11.10	& Are the retained and transplanted tree(s) properly protected and in good conditions?	
8 SI	1.10	Are surgery works carried out for damaged trees?	L V. L seminder2
-11	.11		
0		Ecology	
1 59	0.7	is site runoff properly treated to prevent any silly runoff?	
2 59	.7	Are silt trap installed and well-maintained?	
S9.	.7	Are stockpiles properly covered to avoid generating silty runoff?	
	_		
S9.	7	Are construction works restricted to works area which are clearly defined?	
1			
S9.		For slope mitigation works within the Clear Water Bay Country Park, are tree felling and	
		ges to uses, the exact locations of the flexible barrier foundation plotter and the	
		to a setback distance from existing detailed design, and a setback distance from existing terms	
S9.7		and to be maintained as far as practical?	
[³ ./	- 1	Are pruning of tree canopies along the alignment of the flexible barriers limited to a ninimum?	
\$9.7			
ſ.,		are the alignment of flexible barriers optimized to preserve all species of conservation	
	r r	the stand minimize the impact to the existing vegetation as far as mentioned as	
		lignment of flexible barriers positioned at minimum 1.5 m in a radius away from these dividuals?	
S9.7	-		
	ve	t the detailed design stage prior to the commencement of the slope mitigation works, is getation survey carried out at the slope mitigation	
		egetation survey carried out at the slope mitigation areas within the Clear Water Bay	

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Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
		Country Park to assess the condition and identify the location of each individual of				
		Marsdenia lachnostoma and other flora species of conservation interest that may be directly				
0.00	80.7	affected by the construction works?				
6.09	59.7	Is temporary fencing installed to fence off the concerned species either in groups of individually within the works area and in the close proximity to prevent from being		$\overline{\mathbf{N}}$		
		damaged and disturbed during construction? Is a sign identifying the site attached to the		and the second	-	
		fence and flagging tape shall be attached to the individuals to visualize their locations?				
6.10	\$9.7	Is a specification for fencing and demarcating individuals of Marsdenai lachnostoma (or				
		other flora species of conservation interest, if found) adjacent to the proposed alignment of		V		
	1	the flexible barriers prepared to protect the species?				
6.11	S9.7	Is any induction training provided to all site personnel in order to brief them on this flora of	· []	$\Box / 1$		
		conservation interest including the locations and their importance?		\mathbf{M}		
6.12	S9.7	Is the resident site supervisory staff closely monitor the conditions of concerned				
		individuals during construction of flexible barriers in the close proximity?		ųД		
6.13	S9.7	Are fences erected along the boundary of the works area before the commencement of				
		works to prevent vehicle movements and encroachment of personnel onto adjacent areas?				
6.14	S9.7	Is regular check of the work site boundaries performed to ensure that they are not breached		\Box		
		and that damage does not occur to surrounding areas?		4		
6.15	S9.7	Is any damage and disturbance avoided, particularly those caused by filling and illegal		1		
		dumping, to the surrounding habitats through proper management of waste disposal?				P
6.16	S9.7	Are temporarily affected areas reinstated, particularly the habitats of plantation and		57		
		shrubland-grassland immediately after completion of construction works, through on-site		∇	اب	<u> </u>
		tree/shrub planting?				
6.15	\$9.7	Are affected habitats within the Clear Water Bay Country Bay reinstated by hydro-seeding		\square	\square	
		and planting of climbers and native shrub seedlings where practical upon completion of the			hannand,	
7.00		slope mitigation works? Landfill Gas Hazard				
	S12.7	Are the safety procedures implemented to minimise the risks of fires and explosions,				
1.01	12.1	asphyxiation of works and toxicity effects during all works?		\Box		
7.00	010.7					
7.02	S12.7	Are the gas detection equipment and precautions being used during trenching and				
		excavation as well as creation of confined spaces?				
	010.7					
7.03	S12.7	Are the training with regard to the awareness of potential hazards of working in				
		confined spaces provided from the Contractor to the workers?		цД		
7.04	\$12.7	Are the safety officers trained with regard to landfill gas and leachate related hazards		/		
	1	and presented on the site throughout the works undertaken below grade?		∇	\square	
				استخصا	ليحمل	
7.05	S12.7	Are the all personnel working on site and all visitor made aware of the possibility of		/		
		ignition of gas, the possible presence of contaminated water and the need to avoid		∇	\square	
		physical contact?				g



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ltem	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
7.06	\$12.7	Is the monitoring of landfill gas being undertaken in all excavations, manholes, chambers and any confined spaces?				
		Are the monitoring frequency and areas being specified by the safety officers or appropriately qualified person? Are the all measurements being recorded and documented?	\square			
	S12.7	Is the drilling proceeded with adequate care and precautions against the potential hazards?				
		Is the method statement covering all normal and emergency procedures provided by the drilling contractorprior to the commencement of the site works?	\checkmark			
		Are the below ground services entries being sealed to prevent gas entry? Are the grilled metal covers being used for below grade cable trenches?				
		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?	б			
		Are the warning signs of the hazards of landfill gas and its possible presence on site posted in prominent places?				
8.00 8.01		Overall is the EM&A properly implemented in general?				



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Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: Kemindens - food bours and lottles should be 1) General househoping - food bours and bottles should be in the work containen 2.) Trues gostection should be provided along the work corea between the open chennel and country purk. 3.) Remove the worke from the open idancel outflow; Signatures: ET Contractor's Supervising Officer's IEC's WSD's Representative Representative Representative Representative Representative (Name: (Name: liftru (sa) (Name:) (Name: (Name: ANG





Appendix J

Complaint Log



Statistical Summary of Environmental Complaints

Reporting Period	Environmental	Complaint Statistics						
	Frequency	Cumulative	Complaint Nature					
1 – 31 May 2022	0 0 N/A							

Statistical Summary of Environmental Summons

Reporting Period	Environmental Summons Statistics							
	Frequency	Cumulative	Details					
1 - 31 May 2022	0	0	N/A					

Statistical Summary of Environmental Prosecution

Reporting Period	Environmental	Environmental Prosecution Statistics							
	Frequency	Cumulative	Details						
1 – 31 May 2022	0	0	N/A						





Appendix K

Impact Monitoring Schedule of Next Reporting Month

		Tent	ative Water Quality Monitoring Sch	nedule		
			Jun-22			
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
				Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR4, WSR4, WSR43, WSR50, WSR57 Table Teriod; Ebb Table, 10:00-18:00 Flobol Table, 10:00-18:00 Flobol Table, 10:00-18:00 Monitoring Time; Mail-sebs, 121: 51: 54: 55 Mid-flood; 08:00-09:39		Impact Water Quality meniorizing for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37 <u>Tial Privod</u> Ebb Tida : 1000-19:18 Fibod Tida: (4100-19:00 <u>Monitoring Tima;</u> Mid-ebb: 125-41-624 Mid-lood: 0850-09:42
5	6	7 Impact Water Quality monitoring for CE, CF, WSR1, WSR3, WSR4, WSR4, WSR33, WSR54, WSR47 Ebb Table 13:08-21:42 Flood Table: 00:00-13:08 <u>Monitoring: Time;</u> Mid-ebb: 15:30-19:00 Mid-flood: 09:00-12:30	8	9 Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR4, WSR4, WSR4, WSR4, WSR4, WSR4, WSR4, WSR4, BM Tell Protot BM Tell Protot Photol Tide: 10:55-51:021 Float Tide: 10:521-16:34 Materialsy methods to the tell of t	19	11 Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR4, WSR16, WSR33, WSR36, WSR38, WSR4, WSR16, WSR33, WSR36, WSR37, Ether Table 1990, 1990 Flood Table 1990, 1990 Flood Table 1990, 1990 Flood Table 1990, 1990 Mid-shood: 14, 30-18,00
12	13 Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR2, WSR4, WSR33, WSR36, WSR47 Tabla Period; Ebb Table: 07:38-14:37 Flood Table: 14:37-21:24 Monitoring Tamle: Nick-sth: 09:23-12:52 Mid-flood: 15:00-19:00	14	15 Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR4, WSR4, WSR50, WSR37 Table Tennot Ebb Tide: 09:00-16-23 Flood Tide: 16:23-22:38 <u>Monitoring Time</u> Mid-ebb: 10:38-14:28 Mid-Hood: 16:44-19:00	16	17 Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR46, WSR33, WSR56, WSR37 Tabl Prends Ebb Table : 1100-18:12 Flood Table : 40:00-11:00 <u>Monitoring Time</u> ; Mid-ebb: 12:48-16:18 Mid-flood: 08:00-10:30	15
19	20 Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR3, WSR3, WSR4, WSR37 <u>Tailal Periodi</u> Ebb Taile: 14:00-21:00 Flood Taile: 07:00-14:00 <u>Monitorina' Taile:</u> Mid-ebb: 15:32-19:00 Mid-flood.08:22-11:52	21	22 Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR4, WSR4, WSR4, WSR50, WSR57 Table Trends Eabb Tide. 16:10-22:00 Flood Tide: 09:27-16:10 Minderbi: 16:27-19:00 Minderbi: 16:27-19:00 Minderbi: 11:00-14:30	23	24 Impact Water Quality monitoring for CE, CF, WSRI, WSR2, WSR3, WSR4, WSR4, WSR50, WSR37 Titlel Period: Etbh Tide: 0600-12-26 Flood Tide: 12-26-1900 Ministring: Time: Mid-shbr: 0800-1100 Mid-flood: 14:00-17:00	25
26	27	28 Impact Water Quality menitoring for CE, CF, WSR1, WSR2, WSR1, WSR4, WSR4, SSR16, WSR33, WSR36, WSR4, WSR4, WSR4, WSR46, WSR37, Table Period: Fib Table 0800-15-43 Fibod Table 15-40-15-43 Fibod Table 15-40-15-43 Mid-fibod: 16-00-19-00 Mid-fibod: 16-00-19-00	29	30 Impact Water Quality monitoring for CE, CF, WSRI, WSR2, WSR3, WSR3, WSR36, WSR37 Taid Previat Ebb Tide: 09:19-16:59 Flood Tride: 02:00-09:19 <u>Monitoring Time:</u> Mid-ebb: 112-01-500 Mid-flood:08:00-9:15		
Remarks: 1. Monitoring Parameters: Dissolved oxygen, Temperature, pH, T 2. Due to the adverse sea and weather condition, the Mid-flood ti Note: - Due to safety concern of vessel transportation earlier than 0700, - Prioritized routing. Mid-Ebb: CEWSR16WSR37WSR3	le water sampling was cencelled on 9 June 2022.	SR2→WSR3→WSR4→Remaining stations				





Appendix L

Water Quality and Landfill Gas Monitoring Data

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
CE	20220503	Cloudy	Moderate	Mid-Flood	Surface	1.0	10:35	9.3	8.2	33.3	25.2	3.4	3.0
CE	20220503	Cloudy	Moderate	Mid-Flood	Surface	1.0	10:35	9.3	8.1	33.2	25.2	3.5	2.5
CE	20220503	Cloudy	Moderate	Mid-Flood	Middle	11.0	10:34	9.2	8.1	33.2	25.4	3.1	3.0
CE	20220503	Cloudy	Moderate	Mid-Flood	Middle	11.0	10:34	9.4	8.2	33.4	25.3	3.2	2.5
CE	20220503	Cloudy	Moderate	Mid-Flood	Bottom	21.0	10:33	9.4	8.1	33.4	25.2	3.1	2.5
CE	20220503	Cloudy	Moderate	Mid-Flood	Bottom	21.0	10:33	9.2	8.1	33.2	25.2	3.4	4.0
CF	20220503	Cloudy	Moderate	Mid-Flood	Surface	1.0	8:02	9.1	8.1	33.3	25.4	3.9	4.0
CF	20220503	Cloudy	Moderate	Mid-Flood	Surface	1.0	8:02	9.4	8.2	33.1	25.3	4.0	8.0
CF	20220503	Cloudy	Moderate	Mid-Flood	Middle	9.5	8:01	9.3	8.1	33.3	25.4	4.3	7.0
CF	20220503	Cloudy	Moderate	Mid-Flood	Middle	9.5	8:01	9.1	8.1	33.1	25.4	4.1	5.0
CF	20220503	Cloudy	Moderate	Mid-Flood	Bottom	18.0	8:00	9.2	8.1	33.2	25.3	4.2	3.0
CF	20220503	Cloudy	Moderate	Mid-Flood	Bottom	18.0	8:00	9.0	8.2	33.3	25.3	4.5	3.0
WSR01	20220503	Cloudy	Moderate	Mid-Flood	Surface	1.0	8:25	9.2	8.2	33.4	25.4	2.6	2.5
WSR01	20220503	Cloudy	Moderate	Mid-Flood	Surface	1.0	8:25	9.3	8.3	33.5	25.4	2.9	4.0
WSR01	20220503	Cloudy	Moderate	Mid-Flood	Middle	4.7	8:24	9.2	8.3	33.5	25.4	2.8	7.0
WSR01	20220503	Cloudy	Moderate	Mid-Flood	Middle	4.7	8:24	9.4	8.2	33.7	25.3	2.5	10.0
WSR01	20220503	Cloudy	Moderate	Mid-Flood	Bottom	8.3	8:23	9.4	8.3	33.7	25.4	2.3	3.0
WSR01	20220503	Cloudy	Moderate	Mid-Flood	Bottom	8.3	8:23	9.5	8.3	33.7	25.5	2.2	3.0
WSR02	20220503	Cloudy	Moderate	Mid-Flood	Surface	1.0	8:42	8.7	8.2	32.6	25.3	2.2	2.5
WSR02	20220503	Cloudy	Moderate	Mid-Flood	Surface	1.0	8:42	8.7	8.1	32.5	25.2	2.6	2.5
WSR02	20220503	Cloudy	Moderate	Mid-Flood	Middle	4.9	8:41	8.4	8.0	32.7	25.3	2.3	2.5
WSR02	20220503	Cloudy	Moderate	Mid-Flood	Middle	4.9	8:41	8.7	8.0	32.4	25.2	2.5	2.5
WSR02	20220503	Cloudy	Moderate	Mid-Flood	Bottom	8.7	8:40	8.4	8.1	32.7	25.4	2.2	3.0
WSR02	20220503	Cloudy	Moderate	Mid-Flood	Bottom	8.7	8:40	8.5	8.1	32.5	25.4	2.3	3.0
WSR03	20220503	Cloudy	Moderate	Mid-Flood	Surface	1.0	8:55	8.4	8.1	33.3	25.7	2.1	2.5
WSR03	20220503	Cloudy	Moderate	Mid-Flood	Surface	1.0	8:55	8.3	8.2	33.6	25.6	2.3	2.5

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR03	20220503	Cloudy	Moderate	Mid-Flood	Middle	4.0	8:54	8.2	8.1	33.4	25.8	2.5	11.0
WSR03	20220503	Cloudy	Moderate	Mid-Flood	Middle	4.0	8:54	8.3	8.1	33.6	25.7	2.5	15.0
WSR03	20220503	Cloudy	Moderate	Mid-Flood	Bottom	7.0	8:53	8.6	8.2	33.6	25.7	2.3	2.5
WSR03	20220503	Cloudy	Moderate	Mid-Flood	Bottom	7.0	8:53	8.3	8.2	33.6	25.6	2.5	2.5
WSR04	20220503	Cloudy	Moderate	Mid-Flood	Surface	1.0	9:08	9.4	8.3	32.4	25.4	3.0	2.5
WSR04	20220503	Cloudy	Moderate	Mid-Flood	Surface	1.0	9:08	9.5	8.3	32.4	25.2	2.6	3.0
WSR04	20220503	Cloudy	Moderate	Mid-Flood	Middle	3.7	9:07	9.4	8.3	32.5	25.3	2.7	2.5
WSR04	20220503	Cloudy	Moderate	Mid-Flood	Middle	3.7	9:07	9.4	8.3	32.5	25.2	2.7	2.5
WSR04	20220503	Cloudy	Moderate	Mid-Flood	Bottom	6.3	9:06	9.5	8.2	32.5	25.2	2.6	2.5
WSR04	20220503	Cloudy	Moderate	Mid-Flood	Bottom	6.3	9:06	9.4	8.3	32.7	25.2	2.3	3.0
WSR16	20220503	Cloudy	Moderate	Mid-Flood	Surface	1.0	10:12	8.8	8.3	33.5	25.5	2.7	2.5
WSR16	20220503	Cloudy	Moderate	Mid-Flood	Surface	1.0	10:12	9.0	8.2	33.5	25.5	2.8	2.5
WSR16	20220503	Cloudy	Moderate	Mid-Flood	Middle	7.6	10:11	9.2	8.3	33.4	25.3	2.6	2.5
WSR16	20220503	Cloudy	Moderate	Mid-Flood	Middle	7.6	10:11	8.9	8.3	33.6	25.3	2.3	2.5
WSR16	20220503	Cloudy	Moderate	Mid-Flood	Bottom	14.1	10:10	8.9	8.3	33.4	25.4	2.5	2.5
WSR16	20220503	Cloudy	Moderate	Mid-Flood	Bottom	14.1	10:10	8.9	8.2	33.6	25.3	2.6	3.0
WSR33	20220503	Cloudy	Moderate	Mid-Flood	Surface	1.0	9:22	8.2	8.1	33.7	25.6	2.8	2.5
WSR33	20220503	Cloudy	Moderate	Mid-Flood	Surface	1.0	9:22	8.2	8.1	33.6	25.6	3.1	2.5
WSR33	20220503	Cloudy	Moderate	Mid-Flood	Middle	3.8	9:21	8.2	8.1	33.4	25.7	2.4	2.5
WSR33	20220503	Cloudy	Moderate	Mid-Flood	Middle	3.8	9:21	8.2	8.1	33.6	25.7	2.6	2.5
WSR33	20220503	Cloudy	Moderate	Mid-Flood	Bottom	6.6	9:20	8.2	8.1	33.5	25.6	2.6	2.5
WSR33	20220503	Cloudy	Moderate	Mid-Flood	Bottom	6.6	9:20	8.3	8.1	33.3	25.7	2.3	2.5
WSR36	20220503	Cloudy	Moderate	Mid-Flood	Surface	1.0	9:36	9.2	8.0	32.4	25.5	2.5	3.0
WSR36	20220503	Cloudy	Moderate	Mid-Flood	Surface	1.0	9:36	9.3	8.1	32.6	25.4	2.8	2.5
WSR36	20220503	Cloudy	Moderate	Mid-Flood	Middle	3.6	9:36	9.3	8.1	32.6	25.4	3.0	13.0
WSR36	20220503	Cloudy	Moderate	Mid-Flood	Middle	3.6	9:36	9.1	8.0	32.5	25.5	2.7	13.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR36	20220503	Cloudy	Moderate	Mid-Flood	Bottom	6.1	9:35	9.3	8.1	32.4	25.4	2.3	3.0
WSR36	20220503	Cloudy	Moderate	Mid-Flood	Bottom	6.1	9:35	9.3	8.1	32.4	25.5	2.2	2.5
WSR37	20220503	Cloudy	Moderate	Mid-Flood	Surface	1.0	9:51	9.2	8.1	33.7	25.3	2.8	2.5
WSR37	20220503	Cloudy	Moderate	Mid-Flood	Surface	1.0	9:51	9.3	8.1	33.6	25.1	2.8	4.0
WSR37	20220503	Cloudy	Moderate	Mid-Flood	Middle	4.0	9:50	9.1	8.2	33.5	25.3	2.7	2.5
WSR37	20220503	Cloudy	Moderate	Mid-Flood	Middle	4.0	9:50	9.1	8.2	33.5	25.2	2.5	2.5
WSR37	20220503	Cloudy	Moderate	Mid-Flood	Bottom	7.0	9:49	9.1	8.1	33.4	25.3	2.4	2.5
WSR37	20220503	Cloudy	Moderate	Mid-Flood	Bottom	7.0	9:49	9.2	8.2	33.5	25.4	2.4	2.5
CE	20220505	Sunny	Moderate	Mid-Flood	Surface	1.0	10:36	9.1	8.4	32.7	25.4	3.8	2.5
CE	20220505	Sunny	Moderate	Mid-Flood	Surface	1.0	10:36	9.3	8.4	32.6	25.4	4.1	2.5
CE	20220505	Sunny	Moderate	Mid-Flood	Middle	11.5	10:35	9.4	8.3	32.5	25.4	3.5	3.0
CE	20220505	Sunny	Moderate	Mid-Flood	Middle	11.5	10:35	9.3	8.4	32.5	25.5	3.8	3.0
CE	20220505	Sunny	Moderate	Mid-Flood	Bottom	22.0	10:34	9.2	8.4	32.5	25.3	3.2	4.0
CE	20220505	Sunny	Moderate	Mid-Flood	Bottom	22.0	10:34	9.3	8.3	32.5	25.5	3.4	3.0
CF	20220505	Sunny	Moderate	Mid-Flood	Surface	1.0	8:02	9.0	8.2	32.3	25.8	4.3	3.0
CF	20220505	Sunny	Moderate	Mid-Flood	Surface	1.0	8:02	9.2	8.2	32.3	25.8	4.1	4.0
CF	20220505	Sunny	Moderate	Mid-Flood	Middle	10.8	8:01	9.4	8.2	32.3	25.9	4.4	3.0
CF	20220505	Sunny	Moderate	Mid-Flood	Middle	10.8	8:01	9.3	8.2	32.3	25.8	4.3	2.5
CF	20220505	Sunny	Moderate	Mid-Flood	Bottom	20.5	8:00	9.2	8.2	32.3	25.8	4.6	4.0
CF	20220505	Sunny	Moderate	Mid-Flood	Bottom	20.5	8:00	9.4	8.1	32.5	25.9	4.4	2.5
WSR01	20220505	Sunny	Moderate	Mid-Flood	Surface	1.0	8:26	9.0	8.3	33.1	25.7	4.1	2.5
WSR01	20220505	Sunny	Moderate	Mid-Flood	Surface	1.0	8:26	9.1	8.3	32.9	25.6	4.0	2.5
WSR01	20220505	Sunny	Moderate	Mid-Flood	Middle	4.2	8:25	9.1	8.3	32.9	25.6	3.6	3.0
WSR01	20220505	Sunny	Moderate	Mid-Flood	Middle	4.2	8:25	9.0	8.4	33.0	25.6	3.4	4.0
WSR01	20220505	Sunny	Moderate	Mid-Flood	Bottom	7.3	8:24	9.2	8.3	33.0	25.6	2.8	3.0
WSR01	20220505	Sunny	Moderate	Mid-Flood	Bottom	7.3	8:24	9.1	8.4	33.0	25.6	2.9	3.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR02	20220505	Sunny	Moderate	Mid-Flood	Surface	1.0	8:43	9.7	8.2	33.1	25.5	2.3	3.0
WSR02	20220505	Sunny	Moderate	Mid-Flood	Surface	1.0	8:43	9.6	8.2	33.2	25.6	2.2	4.0
WSR02	20220505	Sunny	Moderate	Mid-Flood	Middle	4.9	8:42	9.9	8.2	33.2	25.5	2.6	3.0
WSR02	20220505	Sunny	Moderate	Mid-Flood	Middle	4.9	8:42	9.9	8.1	33.2	25.4	2.5	2.5
WSR02	20220505	Sunny	Moderate	Mid-Flood	Bottom	8.8	8:41	9.8	8.1	33.2	25.5	2.1	4.0
WSR02	20220505	Sunny	Moderate	Mid-Flood	Bottom	8.8	8:41	9.6	8.2	33.2	25.6	2.3	5.0
WSR03	20220505	Sunny	Moderate	Mid-Flood	Surface	1.0	8:57	9.4	8.2	33.4	25.3	4.3	4.0
WSR03	20220505	Sunny	Moderate	Mid-Flood	Surface	1.0	8:57	9.6	8.2	33.5	25.4	3.9	3.0
WSR03	20220505	Sunny	Moderate	Mid-Flood	Middle	4.2	8:56	9.3	8.2	33.5	25.4	3.8	2.5
WSR03	20220505	Sunny	Moderate	Mid-Flood	Middle	4.2	8:56	9.6	8.2	33.4	25.3	4.1	4.0
WSR03	20220505	Sunny	Moderate	Mid-Flood	Bottom	7.3	8:55	9.3	8.2	33.3	25.3	3.9	2.5
WSR03	20220505	Sunny	Moderate	Mid-Flood	Bottom	7.3	8:55	9.3	8.3	33.4	25.3	3.3	2.5
WSR04	20220505	Sunny	Moderate	Mid-Flood	Surface	1.0	9:10	8.8	8.2	32.9	25.4	3.3	6.0
WSR04	20220505	Sunny	Moderate	Mid-Flood	Surface	1.0	9:10	9.1	8.1	32.9	25.2	3.4	8.0
WSR04	20220505	Sunny	Moderate	Mid-Flood	Middle	3.9	9:09	8.8	8.2	33.1	25.3	3.4	4.0
WSR04	20220505	Sunny	Moderate	Mid-Flood	Middle	3.9	9:09	8.8	8.2	32.9	25.2	3.2	4.0
WSR04	20220505	Sunny	Moderate	Mid-Flood	Bottom	6.8	9:08	8.9	8.2	33.0	25.4	3.1	5.0
WSR04	20220505	Sunny	Moderate	Mid-Flood	Bottom	6.8	9:08	8.9	8.1	32.9	25.3	3.1	8.0
WSR16	20220505	Sunny	Moderate	Mid-Flood	Surface	1.0	10:14	9.9	8.1	32.5	25.4	4.2	3.0
WSR16	20220505	Sunny	Moderate	Mid-Flood	Surface	1.0	10:14	9.9	8.1	32.3	25.3	3.7	3.0
WSR16	20220505	Sunny	Moderate	Mid-Flood	Middle	8.5	10:13	9.8	8.1	32.4	25.4	3.6	7.0
WSR16	20220505	Sunny	Moderate	Mid-Flood	Middle	8.5	10:13	9.6	8.2	32.5	25.5	3.5	5.0
WSR16	20220505	Sunny	Moderate	Mid-Flood	Bottom	16.0	10:12	9.9	8.1	32.4	25.4	3.7	2.5
WSR16	20220505	Sunny	Moderate	Mid-Flood	Bottom	16.0	10:12	9.8	8.2	32.6	25.4	3.2	2.5
WSR33	20220505	Sunny	Moderate	Mid-Flood	Surface	1.0	9:24	9.3	8.3	33.1	25.7	4.0	2.5
WSR33	20220505	Sunny	Moderate	Mid-Flood	Surface	1.0	9:24	9.3	8.2	33.2	25.7	3.9	3.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR33	20220505	Sunny	Moderate	Mid-Flood	Middle	3.6	9:23	9.0	8.2	33.2	25.7	3.7	3.0
WSR33	20220505	Sunny	Moderate	Mid-Flood	Middle	3.6	9:23	9.1	8.2	33.0	25.8	3.5	3.0
WSR33	20220505	Sunny	Moderate	Mid-Flood	Bottom	6.2	9:22	9.0	8.2	32.9	25.8	3.1	3.0
WSR33	20220505	Sunny	Moderate	Mid-Flood	Bottom	6.2	9:22	9.2	8.2	33.1	25.8	2.8	5.0
WSR36	20220505	Sunny	Moderate	Mid-Flood	Surface	1.0	9:37	9.0	8.1	32.8	25.4	3.8	4.0
WSR36	20220505	Sunny	Moderate	Mid-Flood	Surface	1.0	9:37	8.8	8.1	32.9	25.3	3.7	4.0
WSR36	20220505	Sunny	Moderate	Mid-Flood	Middle	3.5	9:37	9.2	8.2	32.7	25.4	3.7	3.0
WSR36	20220505	Sunny	Moderate	Mid-Flood	Middle	3.5	9:37	9.0	8.1	32.9	25.3	3.4	4.0
WSR36	20220505	Sunny	Moderate	Mid-Flood	Bottom	6.0	9:36	8.9	8.2	32.9	25.3	3.1	4.0
WSR36	20220505	Sunny	Moderate	Mid-Flood	Bottom	6.0	9:36	9.0	8.2	32.8	25.3	3.0	4.0
WSR37	20220505	Sunny	Moderate	Mid-Flood	Surface	1.0	9:52	9.7	8.1	33.0	25.3	3.1	4.0
WSR37	20220505	Sunny	Moderate	Mid-Flood	Surface	1.0	9:52	9.5	8.1	32.8	25.4	3.6	2.5
WSR37	20220505	Sunny	Moderate	Mid-Flood	Middle	4.1	9:51	9.7	8.2	32.9	25.3	3.4	4.0
WSR37	20220505	Sunny	Moderate	Mid-Flood	Middle	4.1	9:51	9.7	8.2	32.9	25.4	3.6	2.5
WSR37	20220505	Sunny	Moderate	Mid-Flood	Bottom	7.1	9:50	9.7	8.1	32.7	25.5	2.6	3.0
WSR37	20220505	Sunny	Moderate	Mid-Flood	Bottom	7.1	9:50	9.6	8.1	33.0	25.3	2.6	5.0
CE	20220507	Cloudy	Moderate	Mid-Flood	Surface	1.0	10:46	8.7	8.1	32.4	24.1	3.3	3.0
CE	20220507	Cloudy	Moderate	Mid-Flood	Surface	1.0	10:46	8.9	8.1	32.2	24.0	3.2	4.0
CE	20220507	Cloudy	Moderate	Mid-Flood	Middle	10.0	10:45	8.6	8.1	32.5	24.1	3.5	4.0
CE	20220507	Cloudy	Moderate	Mid-Flood	Middle	10.0	10:45	8.7	8.1	32.3	24.1	3.4	4.0
CE	20220507	Cloudy	Moderate	Mid-Flood	Bottom	19.0	10:44	8.7	8.2	32.3	24.0	3.7	4.0
CE	20220507	Cloudy	Moderate	Mid-Flood	Bottom	19.0	10:44	8.7	8.2	32.5	24.0	3.4	3.0
CF	20220507	Cloudy	Moderate	Mid-Flood	Surface	1.0	8:02	9.1	8.2	33.3	24.5	3.9	4.0
CF	20220507	Cloudy	Moderate	Mid-Flood	Surface	1.0	8:02	9.2	8.2	33.3	24.4	3.9	4.0
CF	20220507	Cloudy	Moderate	Mid-Flood	Middle	10.6	8:01	9.1	8.2	33.4	24.4	4.1	4.0
CF	20220507	Cloudy	Moderate	Mid-Flood	Middle	10.6	8:01	9.0	8.2	33.3	24.4	3.7	4.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
CF	20220507	Cloudy	Moderate	Mid-Flood	Bottom	20.2	8:00	9.1	8.2	33.3	24.5	4.2	3.0
CF	20220507	Cloudy	Moderate	Mid-Flood	Bottom	20.2	8:00	9.0	8.1	33.2	24.4	4.2	3.0
WSR01	20220507	Cloudy	Moderate	Mid-Flood	Surface	1.0	8:26	9.0	8.3	32.8	24.3	2.8	4.0
WSR01	20220507	Cloudy	Moderate	Mid-Flood	Surface	1.0	8:26	9.2	8.4	32.7	24.2	3.2	3.0
WSR01	20220507	Cloudy	Moderate	Mid-Flood	Middle	4.6	8:25	9.1	8.4	32.8	24.2	3.0	6.0
WSR01	20220507	Cloudy	Moderate	Mid-Flood	Middle	4.6	8:25	9.1	8.3	32.7	24.3	2.8	5.0
WSR01	20220507	Cloudy	Moderate	Mid-Flood	Bottom	8.1	8:24	9.0	8.4	32.8	24.3	2.9	4.0
WSR01	20220507	Cloudy	Moderate	Mid-Flood	Bottom	8.1	8:24	8.9	8.3	32.6	24.2	2.7	4.0
WSR02	20220507	Cloudy	Moderate	Mid-Flood	Surface	1.0	8:46	8.5	8.3	32.9	24.8	2.2	3.0
WSR02	20220507	Cloudy	Moderate	Mid-Flood	Surface	1.0	8:46	8.6	8.2	33.0	24.7	2.4	5.0
WSR02	20220507	Cloudy	Moderate	Mid-Flood	Middle	4.9	8:45	8.6	8.3	33.1	24.7	2.4	3.0
WSR02	20220507	Cloudy	Moderate	Mid-Flood	Middle	4.9	8:45	8.4	8.4	33.2	24.8	2.4	3.0
WSR02	20220507	Cloudy	Moderate	Mid-Flood	Bottom	8.7	8:44	8.6	8.3	33.0	24.7	1.9	8.0
WSR02	20220507	Cloudy	Moderate	Mid-Flood	Bottom	8.7	8:44	8.6	8.3	32.9	24.8	2.1	5.0
WSR03	20220507	Cloudy	Moderate	Mid-Flood	Surface	1.0	9:00	9.4	8.2	32.7	24.6	2.9	8.0
WSR03	20220507	Cloudy	Moderate	Mid-Flood	Surface	1.0	9:00	9.3	8.3	32.8	24.7	2.6	4.0
WSR03	20220507	Cloudy	Moderate	Mid-Flood	Middle	3.7	8:59	9.4	8.2	32.7	24.5	3.0	4.0
WSR03	20220507	Cloudy	Moderate	Mid-Flood	Middle	3.7	8:59	9.3	8.3	32.7	24.5	3.0	7.0
WSR03	20220507	Cloudy	Moderate	Mid-Flood	Bottom	6.4	8:58	9.4	8.2	32.7	24.7	2.7	5.0
WSR03	20220507	Cloudy	Moderate	Mid-Flood	Bottom	6.4	8:58	9.4	8.2	32.8	24.7	2.7	8.0
WSR04	20220507	Cloudy	Moderate	Mid-Flood	Surface	1.0	9:14	9.3	8.3	32.3	24.5	2.9	6.0
WSR04	20220507	Cloudy	Moderate	Mid-Flood	Surface	1.0	9:14	9.2	8.3	32.4	24.7	3.1	8.0
WSR04	20220507	Cloudy	Moderate	Mid-Flood	Middle	3.4	9:13	9.3	8.3	32.5	24.7	2.9	6.0
WSR04	20220507	Cloudy	Moderate	Mid-Flood	Middle	3.4	9:13	9.1	8.4	32.4	24.7	3.4	7.0
WSR04	20220507	Cloudy	Moderate	Mid-Flood	Bottom	5.8	9:12	9.2	8.3	32.2	24.7	3.2	7.0
WSR04	20220507	Cloudy	Moderate	Mid-Flood	Bottom	5.8	9:12	9.4	8.3	32.5	24.7	3.3	6.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR16	20220507	Cloudy	Moderate	Mid-Flood	Surface	1.0	10:22	8.7	8.3	32.9	24.4	3.2	4.0
WSR16	20220507	Cloudy	Moderate	Mid-Flood	Surface	1.0	10:22	8.6	8.3	33.0	24.5	3.1	5.0
WSR16	20220507	Cloudy	Moderate	Mid-Flood	Middle	8.0	10:21	8.5	8.2	32.9	24.3	2.8	7.0
WSR16	20220507	Cloudy	Moderate	Mid-Flood	Middle	8.0	10:21	8.6	8.2	33.1	24.5	2.5	4.0
WSR16	20220507	Cloudy	Moderate	Mid-Flood	Bottom	15.0	10:20	8.6	8.2	33.1	24.4	2.6	2.5
WSR16	20220507	Cloudy	Moderate	Mid-Flood	Bottom	15.0	10:20	8.6	8.3	33.0	24.4	2.9	2.5
WSR33	20220507	Cloudy	Moderate	Mid-Flood	Surface	1.0	9:29	8.4	8.3	33.1	24.7	3.2	6.0
WSR33	20220507	Cloudy	Moderate	Mid-Flood	Surface	1.0	9:29	8.2	8.3	33.2	24.8	3.0	5.0
WSR33	20220507	Cloudy	Moderate	Mid-Flood	Middle	3.5	9:28	8.3	8.3	33.2	24.8	3.0	4.0
WSR33	20220507	Cloudy	Moderate	Mid-Flood	Middle	3.5	9:28	8.1	8.2	33.2	24.7	3.2	2.5
WSR33	20220507	Cloudy	Moderate	Mid-Flood	Bottom	6.0	9:27	8.3	8.3	33.1	24.7	2.6	3.0
WSR33	20220507	Cloudy	Moderate	Mid-Flood	Bottom	6.0	9:27	8.4	8.3	33.1	24.7	2.4	2.5
WSR36	20220507	Cloudy	Moderate	Mid-Flood	Surface	1.0	9:43	9.2	8.3	32.8	24.3	3.0	4.0
WSR36	20220507	Cloudy	Moderate	Mid-Flood	Surface	1.0	9:43	9.3	8.3	32.5	24.4	2.8	2.5
WSR36	20220507	Cloudy	Moderate	Mid-Flood	Middle	3.5	9:43	9.1	8.3	32.5	24.3	3.2	4.0
WSR36	20220507	Cloudy	Moderate	Mid-Flood	Middle	3.5	9:43	9.3	8.3	32.8	24.3	3.0	6.0
WSR36	20220507	Cloudy	Moderate	Mid-Flood	Bottom	5.9	9:42	9.2	8.3	32.5	24.4	2.9	4.0
WSR36	20220507	Cloudy	Moderate	Mid-Flood	Bottom	5.9	9:42	9.2	8.3	32.6	24.2	2.4	4.0
WSR37	20220507	Cloudy	Moderate	Mid-Flood	Surface	1.0	9:59	8.8	8.3	33.2	24.9	3.2	4.0
WSR37	20220507	Cloudy	Moderate	Mid-Flood	Surface	1.0	9:59	8.7	8.4	33.3	24.7	3.2	4.0
WSR37	20220507	Cloudy	Moderate	Mid-Flood	Middle	4.1	9:58	8.9	8.4	33.3	24.7	2.6	2.5
WSR37	20220507	Cloudy	Moderate	Mid-Flood	Middle	4.1	9:58	8.6	8.4	33.5	24.7	2.2	4.0
WSR37	20220507	Cloudy	Moderate	Mid-Flood	Bottom	7.2	9:57	8.8	8.4	33.4	24.8	2.4	2.5
WSR37	20220507	Cloudy	Moderate	Mid-Flood	Bottom	7.2	9:57	8.9	8.4	33.4	24.8	2.5	2.5
CE	20220510	Cloudy	Moderate	Mid-Flood	Surface	1.0	14:06	8.6	8.2	32.5	24.2	3.0	2.5
CE	20220510	Cloudy	Moderate	Mid-Flood	Surface	1.0	14:06	8.6	8.2	32.6	24.4	2.8	2.5

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
CE	20220510	Cloudy	Moderate	Mid-Flood	Middle	10.3	14:05	8.7	8.2	32.5	24.4	2.6	2.5
CE	20220510	Cloudy	Moderate	Mid-Flood	Middle	10.3	14:05	8.6	8.2	32.5	24.2	2.6	2.5
CE	20220510	Cloudy	Moderate	Mid-Flood	Bottom	19.5	14:04	8.6	8.2	32.5	24.4	2.9	2.5
CE	20220510	Cloudy	Moderate	Mid-Flood	Bottom	19.5	14:04	8.6	8.2	32.5	24.2	2.8	4.0
CF	20220510	Cloudy	Moderate	Mid-Flood	Surface	1.0	11:29	8.2	8.3	33.0	23.9	3.6	2.5
CF	20220510	Cloudy	Moderate	Mid-Flood	Surface	1.0	11:29	8.2	8.2	32.9	24.0	3.5	2.5
CF	20220510	Cloudy	Moderate	Mid-Flood	Middle	10.5	11:28	8.3	8.2	33.0	24.0	3.5	4.0
CF	20220510	Cloudy	Moderate	Mid-Flood	Middle	10.5	11:28	8.3	8.3	32.9	23.8	3.9	4.0
CF	20220510	Cloudy	Moderate	Mid-Flood	Bottom	19.9	11:27	8.3	8.3	32.9	24.0	3.7	2.5
CF	20220510	Cloudy	Moderate	Mid-Flood	Bottom	19.9	11:27	8.3	8.2	33.0	23.8	3.6	2.5
WSR01	20220510	Cloudy	Moderate	Mid-Flood	Surface	1.0	11:52	8.6	8.3	33.0	24.0	3.0	2.5
WSR01	20220510	Cloudy	Moderate	Mid-Flood	Surface	1.0	11:52	8.6	8.3	33.0	24.0	2.5	2.5
WSR01	20220510	Cloudy	Moderate	Mid-Flood	Middle	4.6	11:51	8.7	8.4	33.0	24.0	2.6	2.5
WSR01	20220510	Cloudy	Moderate	Mid-Flood	Middle	4.6	11:51	8.6	8.3	33.0	24.0	2.4	2.5
WSR01	20220510	Cloudy	Moderate	Mid-Flood	Bottom	8.1	11:50	8.6	8.3	33.0	23.9	2.4	3.0
WSR01	20220510	Cloudy	Moderate	Mid-Flood	Bottom	8.1	11:50	8.6	8.4	33.0	24.0	2.4	5.0
WSR02	20220510	Cloudy	Moderate	Mid-Flood	Surface	1.0	12:11	9.0	8.3	32.8	24.4	2.3	2.5
WSR02	20220510	Cloudy	Moderate	Mid-Flood	Surface	1.0	12:11	9.1	8.4	32.8	24.3	2.2	3.0
WSR02	20220510	Cloudy	Moderate	Mid-Flood	Middle	5.0	12:10	9.0	8.4	32.8	24.4	2.1	4.0
WSR02	20220510	Cloudy	Moderate	Mid-Flood	Middle	5.0	12:10	9.1	8.3	32.9	24.3	2.1	2.5
WSR02	20220510	Cloudy	Moderate	Mid-Flood	Bottom	8.9	12:09	9.1	8.3	32.8	24.5	2.0	6.0
WSR02	20220510	Cloudy	Moderate	Mid-Flood	Bottom	8.9	12:09	9.0	8.3	32.9	24.5	1.8	4.0
WSR03	20220510	Cloudy	Moderate	Mid-Flood	Surface	1.0	12:24	8.7	8.2	32.5	24.5	2.3	3.0
WSR03	20220510	Cloudy	Moderate	Mid-Flood	Surface	1.0	12:24	8.7	8.1	32.6	24.7	2.0	4.0
WSR03	20220510	Cloudy	Moderate	Mid-Flood	Middle	3.9	12:23	8.7	8.2	32.6	24.4	2.0	3.0
WSR03	20220510	Cloudy	Moderate	Mid-Flood	Middle	3.9	12:23	8.7	8.1	32.5	24.6	2.0	5.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR03	20220510	Cloudy	Moderate	Mid-Flood	Bottom	6.7	12:22	8.7	8.1	32.6	24.6	1.8	2.5
WSR03	20220510	Cloudy	Moderate	Mid-Flood	Bottom	6.7	12:22	8.7	8.1	32.5	24.5	1.8	2.5
WSR04	20220510	Cloudy	Moderate	Mid-Flood	Surface	1.0	12:37	8.9	8.3	32.2	24.4	2.4	7.0
WSR04	20220510	Cloudy	Moderate	Mid-Flood	Surface	1.0	12:37	9.0	8.3	32.2	24.2	2.3	9.0
WSR04	20220510	Cloudy	Moderate	Mid-Flood	Middle	3.5	12:36	8.9	8.3	32.2	24.3	1.9	2.5
WSR04	20220510	Cloudy	Moderate	Mid-Flood	Middle	3.5	12:36	9.0	8.4	32.2	24.4	2.3	4.0
WSR04	20220510	Cloudy	Moderate	Mid-Flood	Bottom	5.9	12:35	8.9	8.3	32.2	24.4	2.1	2.5
WSR04	20220510	Cloudy	Moderate	Mid-Flood	Bottom	5.9	12:35	9.1	8.3	32.2	24.3	1.9	3.0
WSR16	20220510	Cloudy	Moderate	Mid-Flood	Surface	1.0	13:43	8.2	8.1	33.2	24.6	2.3	2.5
WSR16	20220510	Cloudy	Moderate	Mid-Flood	Surface	1.0	13:43	8.1	8.1	33.2	24.6	2.6	2.5
WSR16	20220510	Cloudy	Moderate	Mid-Flood	Middle	7.8	13:42	8.1	8.1	33.2	24.5	2.8	2.5
WSR16	20220510	Cloudy	Moderate	Mid-Flood	Middle	7.8	13:42	8.0	8.1	33.2	24.4	2.7	3.0
WSR16	20220510	Cloudy	Moderate	Mid-Flood	Bottom	14.5	13:41	8.0	8.1	33.2	24.5	2.2	4.0
WSR16	20220510	Cloudy	Moderate	Mid-Flood	Bottom	14.5	13:41	8.1	8.1	33.3	24.5	2.2	4.0
WSR33	20220510	Cloudy	Moderate	Mid-Flood	Surface	1.0	12:52	8.7	8.4	32.7	24.5	2.5	4.0
WSR33	20220510	Cloudy	Moderate	Mid-Flood	Surface	1.0	12:52	8.5	8.3	32.6	24.4	2.7	2.5
WSR33	20220510	Cloudy	Moderate	Mid-Flood	Middle	3.7	12:51	8.7	8.4	32.6	24.5	2.5	3.0
WSR33	20220510	Cloudy	Moderate	Mid-Flood	Middle	3.7	12:51	8.6	8.4	32.6	24.6	2.1	2.5
WSR33	20220510	Cloudy	Moderate	Mid-Flood	Bottom	6.3	12:50	8.5	8.4	32.6	24.4	2.4	2.5
WSR33	20220510	Cloudy	Moderate	Mid-Flood	Bottom	6.3	12:50	8.5	8.4	32.6	24.4	2.3	2.5
WSR36	20220510	Cloudy	Moderate	Mid-Flood	Surface	1.0	13:06	8.9	8.4	32.3	24.4	2.8	3.0
WSR36	20220510	Cloudy	Moderate	Mid-Flood	Surface	1.0	13:06	8.9	8.3	32.2	24.4	2.9	2.5
WSR36	20220510	Cloudy	Moderate	Mid-Flood	Middle	3.7	13:06	8.9	8.4	32.2	24.6	2.4	4.0
WSR36	20220510	Cloudy	Moderate	Mid-Flood	Middle	3.7	13:06	8.7	8.4	32.2	24.4	2.5	2.5
WSR36	20220510	Cloudy	Moderate	Mid-Flood	Bottom	6.3	13:05	8.7	8.4	32.3	24.5	1.8	3.0
WSR36	20220510	Cloudy	Moderate	Mid-Flood	Bottom	6.3	13:05	8.9	8.4	32.2	24.5	2.1	4.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR37	20220510	Cloudy	Moderate	Mid-Flood	Surface	1.0	13:20	9.1	8.2	33.1	24.1	2.2	2.5
WSR37	20220510	Cloudy	Moderate	Mid-Flood	Surface	1.0	13:20	9.2	8.2	33.1	24.2	2.2	2.5
WSR37	20220510	Cloudy	Moderate	Mid-Flood	Middle	4.2	13:19	9.2	8.2	33.2	24.0	2.0	2.5
WSR37	20220510	Cloudy	Moderate	Mid-Flood	Middle	4.2	13:19	9.2	8.2	33.2	24.2	2.2	3.0
WSR37	20220510	Cloudy	Moderate	Mid-Flood	Bottom	7.3	13:18	9.1	8.2	33.2	24.1	1.8	3.0
WSR37	20220510	Cloudy	Moderate	Mid-Flood	Bottom	7.3	13:18	9.1	8.2	33.2	24.1	1.9	3.0
CE	20220512	Cloudy	Moderate	Mid-Flood	Surface	1.0	16:05	9.6	8.2	31.2	24.8	2.9	5.0
CE	20220512	Cloudy	Moderate	Mid-Flood	Surface	1.0	16:05	9.4	8.2	31.3	24.7	2.8	7.0
CE	20220512	Cloudy	Moderate	Mid-Flood	Middle	11.1	16:04	9.6	8.2	31.3	24.8	2.9	5.0
CE	20220512	Cloudy	Moderate	Mid-Flood	Middle	11.1	16:04	9.3	8.2	31.3	24.9	3.0	7.0
CE	20220512	Cloudy	Moderate	Mid-Flood	Bottom	21.1	16:03	9.4	8.2	31.1	24.7	3.2	4.0
CE	20220512	Cloudy	Moderate	Mid-Flood	Bottom	21.1	16:03	9.6	8.2	31.2	24.7	3.1	2.5
CF	20220512	Cloudy	Moderate	Mid-Flood	Surface	1.0	13:30	9.4	8.2	31.5	25.4	3.9	10.0
CF	20220512	Cloudy	Moderate	Mid-Flood	Surface	1.0	13:30	9.6	8.2	31.4	25.4	4.0	14.0
CF	20220512	Cloudy	Moderate	Mid-Flood	Middle	10.9	13:29	9.4	8.2	31.6	25.3	3.9	3.0
CF	20220512	Cloudy	Moderate	Mid-Flood	Middle	10.9	13:29	9.7	8.2	31.6	25.5	3.9	3.0
CF	20220512	Cloudy	Moderate	Mid-Flood	Bottom	20.8	13:28	9.6	8.2	31.4	25.3	3.8	16.0
CF	20220512	Cloudy	Moderate	Mid-Flood	Bottom	20.8	13:28	9.6	8.2	31.6	25.4	3.9	14.0
WSR01	20220512	Cloudy	Moderate	Mid-Flood	Surface	1.0	13:53	9.7	8.4	31.7	25.1	2.5	4.0
WSR01	20220512	Cloudy	Moderate	Mid-Flood	Surface	1.0	13:53	9.5	8.3	31.8	25.2	2.7	5.0
WSR01	20220512	Cloudy	Moderate	Mid-Flood	Middle	4.7	13:52	9.7	8.3	32.0	25.2	2.3	2.5
WSR01	20220512	Cloudy	Moderate	Mid-Flood	Middle	4.7	13:52	9.6	8.3	32.0	25.1	2.0	2.5
WSR01	20220512	Cloudy	Moderate	Mid-Flood	Bottom	8.4	13:51	9.6	8.4	31.7	25.2	1.8	4.0
WSR01	20220512	Cloudy	Moderate	Mid-Flood	Bottom	8.4	13:51	9.4	8.4	31.7	25.1	2.1	4.0
WSR02	20220512	Cloudy	Moderate	Mid-Flood	Surface	1.0	14:11	8.9	8.2	30.8	25.1	2.1	2.5
WSR02	20220512	Cloudy	Moderate	Mid-Flood	Surface	1.0	14:11	9.0	8.2	30.5	25.3	2.3	3.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR02	20220512	Cloudy	Moderate	Mid-Flood	Middle	4.6	14:10	9.0	8.2	30.6	25.2	2.4	4.0
WSR02	20220512	Cloudy	Moderate	Mid-Flood	Middle	4.6	14:10	9.1	8.2	30.6	25.1	2.1	5.0
WSR02	20220512	Cloudy	Moderate	Mid-Flood	Bottom	8.1	14:09	8.9	8.2	30.8	25.1	1.8	2.5
WSR02	20220512	Cloudy	Moderate	Mid-Flood	Bottom	8.1	14:09	9.1	8.2	30.8	25.2	2.1	3.0
WSR03	20220512	Cloudy	Moderate	Mid-Flood	Surface	1.0	14:24	9.4	8.2	31.7	25.3	2.9	4.0
WSR03	20220512	Cloudy	Moderate	Mid-Flood	Surface	1.0	14:24	9.5	8.2	31.9	25.2	3.0	5.0
WSR03	20220512	Cloudy	Moderate	Mid-Flood	Middle	3.9	14:23	9.5	8.2	31.7	25.3	2.5	7.0
WSR03	20220512	Cloudy	Moderate	Mid-Flood	Middle	3.9	14:23	9.5	8.2	31.6	25.3	2.1	5.0
WSR03	20220512	Cloudy	Moderate	Mid-Flood	Bottom	6.7	14:22	9.3	8.2	31.6	25.3	1.9	22.0
WSR03	20220512	Cloudy	Moderate	Mid-Flood	Bottom	6.7	14:22	9.4	8.2	31.8	25.2	2.1	24.0
WSR04	20220512	Cloudy	Moderate	Mid-Flood	Surface	1.0	14:37	9.5	8.2	30.8	25.3	2.4	6.0
WSR04	20220512	Cloudy	Moderate	Mid-Flood	Surface	1.0	14:37	9.4	8.2	31.0	25.1	2.8	6.0
WSR04	20220512	Cloudy	Moderate	Mid-Flood	Middle	3.8	14:36	9.6	8.3	30.8	25.3	2.3	4.0
WSR04	20220512	Cloudy	Moderate	Mid-Flood	Middle	3.8	14:36	9.6	8.3	31.0	25.3	2.5	2.5
WSR04	20220512	Cloudy	Moderate	Mid-Flood	Bottom	6.6	14:35	9.5	8.2	30.9	25.3	2.1	6.0
WSR04	20220512	Cloudy	Moderate	Mid-Flood	Bottom	6.6	14:35	9.5	8.3	31.0	25.2	2.0	9.0
WSR16	20220512	Cloudy	Moderate	Mid-Flood	Surface	1.0	15:42	8.4	8.2	31.1	25.2	2.3	6.0
WSR16	20220512	Cloudy	Moderate	Mid-Flood	Surface	1.0	15:42	8.7	8.2	31.1	25.0	2.7	6.0
WSR16	20220512	Cloudy	Moderate	Mid-Flood	Middle	8.2	15:41	8.4	8.1	31.1	25.0	2.5	3.0
WSR16	20220512	Cloudy	Moderate	Mid-Flood	Middle	8.2	15:41	8.3	8.2	31.3	25.2	2.6	4.0
WSR16	20220512	Cloudy	Moderate	Mid-Flood	Bottom	15.4	15:40	8.6	8.1	31.3	25.0	2.1	4.0
WSR16	20220512	Cloudy	Moderate	Mid-Flood	Bottom	15.4	15:40	8.5	8.1	31.3	25.1	2.2	5.0
WSR33	20220512	Cloudy	Moderate	Mid-Flood	Surface	1.0	14:51	9.2	8.3	31.4	25.4	3.1	4.0
WSR33	20220512	Cloudy	Moderate	Mid-Flood	Surface	1.0	14:51	9.5	8.3	31.4	25.2	2.7	4.0
WSR33	20220512	Cloudy	Moderate	Mid-Flood	Middle	3.8	14:50	9.4	8.3	31.7	25.2	2.8	5.0
WSR33	20220512	Cloudy	Moderate	Mid-Flood	Middle	3.8	14:50	9.3	8.4	31.5	25.3	2.9	5.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR33	20220512	Cloudy	Moderate	Mid-Flood	Bottom	6.6	14:49	9.3	8.3	31.4	25.2	2.2	2.5
WSR33	20220512	Cloudy	Moderate	Mid-Flood	Bottom	6.6	14:49	9.2	8.4	31.4	25.2	2.5	2.5
WSR36	20220512	Cloudy	Moderate	Mid-Flood	Surface	1.0	15:04	9.4	8.1	31.2	24.9	2.9	3.0
WSR36	20220512	Cloudy	Moderate	Mid-Flood	Surface	1.0	15:04	9.6	8.2	31.2	24.8	2.5	3.0
WSR36	20220512	Cloudy	Moderate	Mid-Flood	Middle	3.4	15:04	9.6	8.1	31.3	24.7	2.2	4.0
WSR36	20220512	Cloudy	Moderate	Mid-Flood	Middle	3.4	15:04	9.8	8.1	31.1	24.8	2.1	5.0
WSR36	20220512	Cloudy	Moderate	Mid-Flood	Bottom	5.8	15:03	9.6	8.2	31.3	24.9	2.2	8.0
WSR36	20220512	Cloudy	Moderate	Mid-Flood	Bottom	5.8	15:03	9.5	8.1	31.4	24.7	1.9	7.0
WSR37	20220512	Cloudy	Moderate	Mid-Flood	Surface	1.0	15:19	8.9	8.3	31.1	25.1	2.5	4.0
WSR37	20220512	Cloudy	Moderate	Mid-Flood	Surface	1.0	15:19	9.0	8.3	31.2	24.9	3.0	2.5
WSR37	20220512	Cloudy	Moderate	Mid-Flood	Middle	4.3	15:18	9.0	8.4	31.2	25.1	2.3	2.5
WSR37	20220512	Cloudy	Moderate	Mid-Flood	Middle	4.3	15:18	8.7	8.3	31.3	25.1	2.0	3.0
WSR37	20220512	Cloudy	Moderate	Mid-Flood	Bottom	7.5	15:17	8.8	8.3	31.1	24.9	2.3	2.5
WSR37	20220512	Cloudy	Moderate	Mid-Flood	Bottom	7.5	15:17	8.8	8.3	31.2	25.0	2.1	2.5
CE	20220514	Cloudy	Moderate	Mid-Flood	Surface	1.0	18:11	8.6	8.1	33.3	26.0	3.2	2.5
CE	20220514	Cloudy	Moderate	Mid-Flood	Surface	1.0	18:11	8.5	8.1	33.2	26.1	3.1	2.5
CE	20220514	Cloudy	Moderate	Mid-Flood	Middle	11.4	18:10	8.7	8.1	33.2	26.1	3.7	12.0
CE	20220514	Cloudy	Moderate	Mid-Flood	Middle	11.4	18:10	8.5	8.1	33.3	26.1	3.5	13.0
CE	20220514	Cloudy	Moderate	Mid-Flood	Bottom	21.8	18:09	8.6	8.1	33.2	26.0	3.7	6.0
CE	20220514	Cloudy	Moderate	Mid-Flood	Bottom	21.8	18:09	8.4	8.1	33.3	26.0	3.7	7.0
CF	20220514	Cloudy	Moderate	Mid-Flood	Surface	1.0	15:34	8.7	8.3	33.2	25.2	3.7	5.0
CF	20220514	Cloudy	Moderate	Mid-Flood	Surface	1.0	15:34	8.8	8.3	33.2	25.2	3.8	7.0
CF	20220514	Cloudy	Moderate	Mid-Flood	Middle	10.1	15:33	8.7	8.2	33.1	25.3	4.3	2.5
CF	20220514	Cloudy	Moderate	Mid-Flood	Middle	10.1	15:33	8.8	8.2	33.2	25.2	4.0	2.5
CF	20220514	Cloudy	Moderate	Mid-Flood	Bottom	19.1	15:32	8.7	8.2	33.1	25.3	4.4	8.0
CF	20220514	Cloudy	Moderate	Mid-Flood	Bottom	19.1	15:32	8.9	8.2	33.2	25.2	4.3	6.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR01	20220514	Cloudy	Moderate	Mid-Flood	Surface	1.0	15:57	9.2	8.2	32.9	25.6	2.8	2.5
WSR01	20220514	Cloudy	Moderate	Mid-Flood	Surface	1.0	15:57	9.3	8.3	33.0	25.4	2.8	2.5
WSR01	20220514	Cloudy	Moderate	Mid-Flood	Middle	4.2	15:56	9.1	8.2	32.9	25.5	2.7	3.0
WSR01	20220514	Cloudy	Moderate	Mid-Flood	Middle	4.2	15:56	9.1	8.2	32.8	25.6	2.5	3.0
WSR01	20220514	Cloudy	Moderate	Mid-Flood	Bottom	7.4	15:55	9.3	8.2	33.0	25.5	2.0	3.0
WSR01	20220514	Cloudy	Moderate	Mid-Flood	Bottom	7.4	15:55	9.3	8.3	32.9	25.5	2.0	2.5
WSR02	20220514	Cloudy	Moderate	Mid-Flood	Surface	1.0	16:16	8.1	8.1	33.1	25.5	2.2	2.5
WSR02	20220514	Cloudy	Moderate	Mid-Flood	Surface	1.0	16:16	8.2	8.1	33.2	25.6	2.1	2.5
WSR02	20220514	Cloudy	Moderate	Mid-Flood	Middle	4.8	16:15	8.2	8.2	33.2	25.5	1.9	2.5
WSR02	20220514	Cloudy	Moderate	Mid-Flood	Middle	4.8	16:15	8.1	8.1	33.3	25.5	2.0	3.0
WSR02	20220514	Cloudy	Moderate	Mid-Flood	Bottom	8.6	16:14	8.2	8.1	33.3	25.5	2.1	2.5
WSR02	20220514	Cloudy	Moderate	Mid-Flood	Bottom	8.6	16:14	8.3	8.2	33.1	25.4	2.3	2.5
WSR03	20220514	Cloudy	Moderate	Mid-Flood	Surface	1.0	16:30	9.1	8.3	32.8	25.3	2.4	2.5
WSR03	20220514	Cloudy	Moderate	Mid-Flood	Surface	1.0	16:30	9.0	8.3	32.8	25.3	2.1	3.0
WSR03	20220514	Cloudy	Moderate	Mid-Flood	Middle	4.2	16:29	9.0	8.3	32.8	25.4	2.0	4.0
WSR03	20220514	Cloudy	Moderate	Mid-Flood	Middle	4.2	16:29	9.1	8.3	32.8	25.4	2.4	5.0
WSR03	20220514	Cloudy	Moderate	Mid-Flood	Bottom	7.3	16:28	9.2	8.3	32.8	25.3	2.2	6.0
WSR03	20220514	Cloudy	Moderate	Mid-Flood	Bottom	7.3	16:28	9.1	8.3	32.8	25.4	1.9	4.0
WSR04	20220514	Cloudy	Moderate	Mid-Flood	Surface	1.0	16:43	9.0	8.1	32.6	25.9	3.1	30.0
WSR04	20220514	Cloudy	Moderate	Mid-Flood	Surface	1.0	16:43	8.9	8.1	32.5	26.1	3.2	33.0
WSR04	20220514	Cloudy	Moderate	Mid-Flood	Middle	3.7	16:42	9.1	8.1	32.7	26.0	3.1	2.5
WSR04	20220514	Cloudy	Moderate	Mid-Flood	Middle	3.7	16:42	9.0	8.1	32.5	26.0	2.9	3.0
WSR04	20220514	Cloudy	Moderate	Mid-Flood	Bottom	6.4	16:41	9.0	8.1	32.5	25.9	2.6	2.5
WSR04	20220514	Cloudy	Moderate	Mid-Flood	Bottom	6.4	16:41	9.0	8.1	32.6	26.1	3.1	2.5
WSR16	20220514	Cloudy	Moderate	Mid-Flood	Surface	1.0	17:47	8.6	8.3	32.7	25.2	3.1	4.0
WSR16	20220514	Cloudy	Moderate	Mid-Flood	Surface	1.0	17:47	8.7	8.3	32.6	25.2	2.9	3.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR16	20220514	Cloudy	Moderate	Mid-Flood	Middle	8.3	17:46	8.6	8.3	32.6	25.3	2.9	2.5
WSR16	20220514	Cloudy	Moderate	Mid-Flood	Middle	8.3	17:46	8.7	8.2	32.7	25.2	3.1	3.0
WSR16	20220514	Cloudy	Moderate	Mid-Flood	Bottom	15.5	17:45	8.5	8.2	32.7	25.2	2.4	3.0
WSR16	20220514	Cloudy	Moderate	Mid-Flood	Bottom	15.5	17:45	8.6	8.3	32.7	25.3	2.2	3.0
WSR33	20220514	Cloudy	Moderate	Mid-Flood	Surface	1.0	16:57	8.4	8.1	33.3	25.8	2.8	4.0
WSR33	20220514	Cloudy	Moderate	Mid-Flood	Surface	1.0	16:57	8.5	8.1	33.3	25.8	2.5	3.0
WSR33	20220514	Cloudy	Moderate	Mid-Flood	Middle	3.7	16:56	8.3	8.1	33.3	26.0	2.7	3.0
WSR33	20220514	Cloudy	Moderate	Mid-Flood	Middle	3.7	16:56	8.4	8.1	33.3	25.9	2.6	3.0
WSR33	20220514	Cloudy	Moderate	Mid-Flood	Bottom	6.3	16:55	8.5	8.1	33.2	25.9	2.1	9.0
WSR33	20220514	Cloudy	Moderate	Mid-Flood	Bottom	6.3	16:55	8.5	8.1	33.2	25.9	2.3	10.0
WSR36	20220514	Cloudy	Moderate	Mid-Flood	Surface	1.0	17:10	8.7	8.1	32.4	25.4	2.9	7.0
WSR36	20220514	Cloudy	Moderate	Mid-Flood	Surface	1.0	17:10	8.8	8.1	32.5	25.4	3.0	6.0
WSR36	20220514	Cloudy	Moderate	Mid-Flood	Middle	3.5	17:10	8.6	8.1	32.5	25.5	2.4	6.0
WSR36	20220514	Cloudy	Moderate	Mid-Flood	Middle	3.5	17:10	8.7	8.1	32.5	25.5	2.4	3.0
WSR36	20220514	Cloudy	Moderate	Mid-Flood	Bottom	6.0	17:09	8.6	8.1	32.4	25.5	2.6	3.0
WSR36	20220514	Cloudy	Moderate	Mid-Flood	Bottom	6.0	17:09	8.8	8.1	32.4	25.6	2.3	4.0
WSR37	20220514	Cloudy	Moderate	Mid-Flood	Surface	1.0	17:25	8.1	8.1	33.0	25.8	3.0	2.5
WSR37	20220514	Cloudy	Moderate	Mid-Flood	Surface	1.0	17:25	8.3	8.1	33.1	25.7	3.0	4.0
WSR37	20220514	Cloudy	Moderate	Mid-Flood	Middle	3.9	17:24	8.3	8.1	33.0	25.8	2.6	4.0
WSR37	20220514	Cloudy	Moderate	Mid-Flood	Middle	3.9	17:24	8.2	8.1	33.0	25.8	3.0	3.0
WSR37	20220514	Cloudy	Moderate	Mid-Flood	Bottom	6.8	17:23	8.2	8.1	33.1	25.8	2.5	2.5
WSR37	20220514	Cloudy	Moderate	Mid-Flood	Bottom	6.8	17:23	8.1	8.2	33.0	25.7	2.9	3.0
CE	20220517	Sunny	Moderate	Mid-Flood	Surface	1.0	18:58	9.8	8.3	33.4	26.0	3.8	3.0
CE	20220517	Sunny	Moderate	Mid-Flood	Surface	1.0	18:58	9.8	8.3	33.5	26.1	4.0	4.0
CE	20220517	Sunny	Moderate	Mid-Flood	Middle	11.2	18:57	10.0	8.3	33.4	26.1	4.0	4.0
CE	20220517	Sunny	Moderate	Mid-Flood	Middle	11.2	18:57	10.0	8.2	33.3	26.1	3.9	6.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
CE	20220517	Sunny	Moderate	Mid-Flood	Bottom	21.4	18:56	10.0	8.3	33.4	26.1	4.3	5.0
CE	20220517	Sunny	Moderate	Mid-Flood	Bottom	21.4	18:56	10.1	8.3	33.4	26.0	4.2	4.0
CF	20220517	Sunny	Moderate	Mid-Flood	Surface	1.0	16:44	9.3	8.3	32.8	26.5	4.5	3.0
CF	20220517	Sunny	Moderate	Mid-Flood	Surface	1.0	16:44	8.9	8.3	32.9	26.5	4.7	6.0
CF	20220517	Sunny	Moderate	Mid-Flood	Middle	10.9	16:43	9.2	8.3	32.8	26.4	4.8	5.0
CF	20220517	Sunny	Moderate	Mid-Flood	Middle	10.9	16:43	9.2	8.2	32.8	26.4	5.0	4.0
CF	20220517	Sunny	Moderate	Mid-Flood	Bottom	20.8	16:42	9.2	8.3	32.9	26.5	4.8	4.0
CF	20220517	Sunny	Moderate	Mid-Flood	Bottom	20.8	16:42	9.3	8.3	32.9	26.5	5.0	2.5
WSR01	20220517	Sunny	Moderate	Mid-Flood	Surface	1.0	17:04	8.9	8.3	33.2	26.4	3.5	2.5
WSR01	20220517	Sunny	Moderate	Mid-Flood	Surface	1.0	17:04	8.7	8.3	33.2	26.5	3.4	2.5
WSR01	20220517	Sunny	Moderate	Mid-Flood	Middle	4.4	17:03	9.0	8.3	33.2	26.5	3.1	2.5
WSR01	20220517	Sunny	Moderate	Mid-Flood	Middle	4.4	17:03	8.8	8.3	33.3	26.5	2.6	2.5
WSR01	20220517	Sunny	Moderate	Mid-Flood	Bottom	7.7	17:02	8.8	8.3	33.3	26.4	2.9	3.0
WSR01	20220517	Sunny	Moderate	Mid-Flood	Bottom	7.7	17:02	8.8	8.2	33.3	26.5	2.6	2.5
WSR02	20220517	Sunny	Moderate	Mid-Flood	Surface	1.0	17:19	9.1	8.1	32.5	26.6	3.4	2.5
WSR02	20220517	Sunny	Moderate	Mid-Flood	Surface	1.0	17:19	9.2	8.2	32.5	26.6	2.9	2.5
WSR02	20220517	Sunny	Moderate	Mid-Flood	Middle	4.6	17:18	9.3	8.1	32.6	26.7	3.2	2.5
WSR02	20220517	Sunny	Moderate	Mid-Flood	Middle	4.6	17:18	9.3	8.2	32.6	26.7	3.2	2.5
WSR02	20220517	Sunny	Moderate	Mid-Flood	Bottom	8.2	17:17	9.3	8.1	32.6	26.7	2.1	2.5
WSR02	20220517	Sunny	Moderate	Mid-Flood	Bottom	8.2	17:17	9.3	8.2	32.5	26.6	2.5	3.0
WSR03	20220517	Sunny	Moderate	Mid-Flood	Surface	1.0	17:29	8.7	8.2	32.8	25.9	4.3	2.5
WSR03	20220517	Sunny	Moderate	Mid-Flood	Surface	1.0	17:29	8.6	8.3	32.8	26.0	4.0	2.5
WSR03	20220517	Sunny	Moderate	Mid-Flood	Middle	4.0	17:28	8.8	8.3	32.8	26.0	3.9	3.0
WSR03	20220517	Sunny	Moderate	Mid-Flood	Middle	4.0	17:28	8.6	8.3	32.7	25.9	3.6	2.5
WSR03	20220517	Sunny	Moderate	Mid-Flood	Bottom	7.0	17:27	8.8	8.3	32.7	25.9	3.3	2.5
WSR03	20220517	Sunny	Moderate	Mid-Flood	Bottom	7.0	17:27	8.7	8.3	32.7	25.9	3.2	3.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR04	20220517	Sunny	Moderate	Mid-Flood	Surface	1.0	17:40	9.1	8.2	32.3	26.2	4.2	4.0
WSR04	20220517	Sunny	Moderate	Mid-Flood	Surface	1.0	17:40	9.2	8.2	32.4	26.2	4.0	2.5
WSR04	20220517	Sunny	Moderate	Mid-Flood	Middle	3.8	17:39	9.2	8.2	32.5	26.1	3.8	3.0
WSR04	20220517	Sunny	Moderate	Mid-Flood	Middle	3.8	17:39	9.4	8.2	32.4	26.1	3.5	2.5
WSR04	20220517	Sunny	Moderate	Mid-Flood	Bottom	6.6	17:38	9.3	8.2	32.5	26.1	3.0	2.5
WSR04	20220517	Sunny	Moderate	Mid-Flood	Bottom	6.6	17:38	9.3	8.2	32.5	26.2	3.2	3.0
WSR16	20220517	Sunny	Moderate	Mid-Flood	Surface	1.0	18:36	9.7	8.3	33.3	26.7	3.5	3.0
WSR16	20220517	Sunny	Moderate	Mid-Flood	Surface	1.0	18:36	9.6	8.2	33.2	26.8	3.9	2.5
WSR16	20220517	Sunny	Moderate	Mid-Flood	Middle	7.6	18:35	9.7	8.2	33.2	26.6	3.3	2.5
WSR16	20220517	Sunny	Moderate	Mid-Flood	Middle	7.6	18:35	9.6	8.2	33.2	26.7	3.3	3.0
WSR16	20220517	Sunny	Moderate	Mid-Flood	Bottom	14.2	18:34	9.8	8.2	33.3	26.7	3.4	2.5
WSR16	20220517	Sunny	Moderate	Mid-Flood	Bottom	14.2	18:34	9.6	8.3	33.3	26.7	3.2	2.5
WSR33	20220517	Sunny	Moderate	Mid-Flood	Surface	1.0	17:53	9.2	8.2	32.8	26.5	3.7	3.0
WSR33	20220517	Sunny	Moderate	Mid-Flood	Surface	1.0	17:53	9.1	8.2	32.9	26.4	3.5	2.5
WSR33	20220517	Sunny	Moderate	Mid-Flood	Middle	3.8	17:52	9.2	8.2	32.9	26.5	3.4	2.5
WSR33	20220517	Sunny	Moderate	Mid-Flood	Middle	3.8	17:52	9.2	8.1	32.8	26.5	3.4	4.0
WSR33	20220517	Sunny	Moderate	Mid-Flood	Bottom	6.5	17:51	9.0	8.1	32.9	26.4	3.1	6.0
WSR33	20220517	Sunny	Moderate	Mid-Flood	Bottom	6.5	17:51	9.2	8.2	32.8	26.6	3.6	6.0
WSR36	20220517	Sunny	Moderate	Mid-Flood	Surface	1.0	18:05	9.8	8.2	32.5	26.2	3.5	7.0
WSR36	20220517	Sunny	Moderate	Mid-Flood	Surface	1.0	18:05	9.8	8.2	32.5	26.4	3.7	5.0
WSR36	20220517	Sunny	Moderate	Mid-Flood	Middle	3.6	18:05	9.8	8.1	32.4	26.2	3.1	4.0
WSR36	20220517	Sunny	Moderate	Mid-Flood	Middle	3.6	18:05	9.8	8.2	32.4	26.4	3.5	3.0
WSR36	20220517	Sunny	Moderate	Mid-Flood	Bottom	6.2	18:04	9.7	8.2	32.5	26.3	2.7	5.0
WSR36	20220517	Sunny	Moderate	Mid-Flood	Bottom	6.2	18:04	9.8	8.2	32.5	26.2	2.7	5.0
WSR37	20220517	Sunny	Moderate	Mid-Flood	Surface	1.0	18:19	9.6	8.1	33.5	26.3	4.2	3.0
WSR37	20220517	Sunny	Moderate	Mid-Flood	Surface	1.0	18:19	9.4	8.2	33.6	26.5	4.3	3.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR37	20220517	Sunny	Moderate	Mid-Flood	Middle	3.8	18:18	9.7	8.2	33.5	26.4	3.3	2.5
WSR37	20220517	Sunny	Moderate	Mid-Flood	Middle	3.8	18:18	9.6	8.2	33.6	26.3	3.7	2.5
WSR37	20220517	Sunny	Moderate	Mid-Flood	Bottom	6.6	18:17	9.7	8.2	33.4	26.3	3.5	2.5
WSR37	20220517	Sunny	Moderate	Mid-Flood	Bottom	6.6	18:17	9.7	8.2	33.4	26.4	3.1	4.0
CE	20220519	Sunny	Moderate	Mid-Flood	Surface	1.0	10:38	8.6	8.0	31.1	25.6	3.1	2.5
CE	20220519	Sunny	Moderate	Mid-Flood	Surface	1.0	10:38	8.6	7.9	31.1	25.6	2.8	3.0
CE	20220519	Sunny	Moderate	Mid-Flood	Middle	11.6	10:37	8.7	8.0	31.1	25.6	2.9	2.5
CE	20220519	Sunny	Moderate	Mid-Flood	Middle	11.6	10:37	8.6	8.0	31.1	25.8	2.9	2.5
CE	20220519	Sunny	Moderate	Mid-Flood	Bottom	22.1	10:36	8.6	8.0	31.1	25.7	3.1	2.5
CE	20220519	Sunny	Moderate	Mid-Flood	Bottom	22.1	10:36	8.7	8.1	31.1	25.6	3.3	2.5
CF	20220519	Sunny	Moderate	Mid-Flood	Surface	1.0	8:02	9.4	8.1	31.2	26.0	3.5	2.5
CF	20220519	Sunny	Moderate	Mid-Flood	Surface	1.0	8:02	9.4	8.2	31.3	25.9	3.5	2.5
CF	20220519	Sunny	Moderate	Mid-Flood	Middle	9.5	8:01	9.4	8.2	31.4	26.0	3.6	2.5
CF	20220519	Sunny	Moderate	Mid-Flood	Middle	9.5	8:01	9.5	8.1	31.4	26.0	3.8	2.5
CF	20220519	Sunny	Moderate	Mid-Flood	Bottom	18.0	8:00	9.4	8.1	31.2	25.9	3.9	2.5
CF	20220519	Sunny	Moderate	Mid-Flood	Bottom	18.0	8:00	9.4	8.1	31.3	26.0	3.8	4.0
WSR01	20220519	Sunny	Moderate	Mid-Flood	Surface	1.0	8:25	8.9	7.9	30.4	25.7	2.9	2.5
WSR01	20220519	Sunny	Moderate	Mid-Flood	Surface	1.0	8:25	9.2	7.9	30.4	25.8	2.6	2.5
WSR01	20220519	Sunny	Moderate	Mid-Flood	Middle	4.5	8:24	9.0	8.0	30.6	25.8	2.5	2.5
WSR01	20220519	Sunny	Moderate	Mid-Flood	Middle	4.5	8:24	9.0	7.9	30.6	25.8	2.5	3.0
WSR01	20220519	Sunny	Moderate	Mid-Flood	Bottom	8.0	8:23	9.1	7.9	30.5	25.7	2.1	2.5
WSR01	20220519	Sunny	Moderate	Mid-Flood	Bottom	8.0	8:23	9.0	8.0	30.5	25.7	2.3	3.0
WSR02	20220519	Sunny	Moderate	Mid-Flood	Surface	1.0	8:43	9.6	8.2	30.5	26.1	2.1	2.5
WSR02	20220519	Sunny	Moderate	Mid-Flood	Surface	1.0	8:43	9.6	8.2	30.4	26.0	1.8	2.5
WSR02	20220519	Sunny	Moderate	Mid-Flood	Middle	4.8	8:42	9.5	8.2	30.3	26.0	2.0	5.0
WSR02	20220519	Sunny	Moderate	Mid-Flood	Middle	4.8	8:42	9.4	8.2	30.3	26.0	2.0	3.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR02	20220519	Sunny	Moderate	Mid-Flood	Bottom	8.6	8:41	9.4	8.2	30.4	26.1	2.1	4.0
WSR02	20220519	Sunny	Moderate	Mid-Flood	Bottom	8.6	8:41	9.3	8.2	30.3	26.1	2.2	6.0
WSR03	20220519	Sunny	Moderate	Mid-Flood	Surface	1.0	8:55	8.8	8.1	30.7	25.9	2.2	3.0
WSR03	20220519	Sunny	Moderate	Mid-Flood	Surface	1.0	8:55	8.7	8.2	31.0	25.9	2.1	5.0
WSR03	20220519	Sunny	Moderate	Mid-Flood	Middle	4.2	8:54	8.6	8.1	30.8	25.8	2.2	3.0
WSR03	20220519	Sunny	Moderate	Mid-Flood	Middle	4.2	8:54	8.8	8.1	31.0	25.8	2.4	5.0
WSR03	20220519	Sunny	Moderate	Mid-Flood	Bottom	7.4	8:53	8.6	8.0	30.8	25.8	2.3	4.0
WSR03	20220519	Sunny	Moderate	Mid-Flood	Bottom	7.4	8:53	8.9	8.1	30.9	25.9	2.2	3.0
WSR04	20220519	Sunny	Moderate	Mid-Flood	Surface	1.0	9:08	9.2	8.2	31.5	26.1	2.6	2.5
WSR04	20220519	Sunny	Moderate	Mid-Flood	Surface	1.0	9:08	9.1	8.1	31.3	26.0	2.3	4.0
WSR04	20220519	Sunny	Moderate	Mid-Flood	Middle	3.7	9:07	9.1	8.1	31.3	26.0	2.7	3.0
WSR04	20220519	Sunny	Moderate	Mid-Flood	Middle	3.7	9:07	9.2	8.2	31.4	25.9	2.5	3.0
WSR04	20220519	Sunny	Moderate	Mid-Flood	Bottom	6.3	9:06	9.2	8.2	31.4	26.0	2.5	3.0
WSR04	20220519	Sunny	Moderate	Mid-Flood	Bottom	6.3	9:06	9.2	8.2	31.4	25.9	2.2	4.0
WSR16	20220519	Sunny	Moderate	Mid-Flood	Surface	1.0	10:13	8.7	8.1	31.5	26.2	3.3	3.0
WSR16	20220519	Sunny	Moderate	Mid-Flood	Surface	1.0	10:13	8.6	8.1	31.4	26.3	3.4	5.0
WSR16	20220519	Sunny	Moderate	Mid-Flood	Middle	7.8	10:12	8.7	8.1	31.5	26.4	2.6	2.5
WSR16	20220519	Sunny	Moderate	Mid-Flood	Middle	7.8	10:12	8.6	8.1	31.4	26.4	2.5	3.0
WSR16	20220519	Sunny	Moderate	Mid-Flood	Bottom	14.5	10:11	8.7	8.2	31.4	26.3	3.0	4.0
WSR16	20220519	Sunny	Moderate	Mid-Flood	Bottom	14.5	10:11	8.7	8.2	31.6	26.4	2.7	6.0
WSR33	20220519	Sunny	Moderate	Mid-Flood	Surface	1.0	9:22	8.8	8.0	30.8	26.3	2.7	5.0
WSR33	20220519	Sunny	Moderate	Mid-Flood	Surface	1.0	9:22	8.7	8.0	30.7	26.4	2.7	5.0
WSR33	20220519	Sunny	Moderate	Mid-Flood	Middle	3.7	9:21	8.8	8.0	30.7	26.3	2.5	4.0
WSR33	20220519	Sunny	Moderate	Mid-Flood	Middle	3.7	9:21	8.8	8.0	30.9	26.4	2.3	5.0
WSR33	20220519	Sunny	Moderate	Mid-Flood	Bottom	6.3	9:20	8.8	8.0	30.8	26.4	2.3	5.0
WSR33	20220519	Sunny	Moderate	Mid-Flood	Bottom	6.3	9:20	8.7	8.0	30.7	26.3	2.3	5.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR36	20220519	Sunny	Moderate	Mid-Flood	Surface	1.0	9:35	8.7	8.1	31.3	25.9	2.9	6.0
WSR36	20220519	Sunny	Moderate	Mid-Flood	Surface	1.0	9:35	8.9	8.1	31.1	25.7	3.2	6.0
WSR36	20220519	Sunny	Moderate	Mid-Flood	Middle	3.5	9:35	8.7	8.1	31.1	25.9	2.3	5.0
WSR36	20220519	Sunny	Moderate	Mid-Flood	Middle	3.5	9:35	8.9	8.1	31.3	25.7	2.4	4.0
WSR36	20220519	Sunny	Moderate	Mid-Flood	Bottom	5.9	9:34	8.7	8.1	31.1	25.7	2.4	4.0
WSR36	20220519	Sunny	Moderate	Mid-Flood	Bottom	5.9	9:34	8.6	8.1	31.2	25.8	2.2	3.0
WSR37	20220519	Sunny	Moderate	Mid-Flood	Surface	1.0	9:50	8.8	8.1	30.7	25.8	2.7	3.0
WSR37	20220519	Sunny	Moderate	Mid-Flood	Surface	1.0	9:50	8.8	8.2	30.7	25.8	3.0	6.0
WSR37	20220519	Sunny	Moderate	Mid-Flood	Middle	4.0	9:49	8.8	8.2	30.6	25.6	2.5	8.0
WSR37	20220519	Sunny	Moderate	Mid-Flood	Middle	4.0	9:49	8.8	8.2	30.7	25.8	2.7	5.0
WSR37	20220519	Sunny	Moderate	Mid-Flood	Bottom	7.0	9:48	8.9	8.2	30.7	25.7	2.0	3.0
WSR37	20220519	Sunny	Moderate	Mid-Flood	Bottom	7.0	9:48	8.9	8.2	30.7	25.7	2.1	5.0
CE	20220521	Cloudy	Moderate	Mid-Flood	Surface	1.0	10:46	8.4	8.1	33.6	25.3	3.3	2.5
CE	20220521	Cloudy	Moderate	Mid-Flood	Surface	1.0	10:46	8.7	8.1	33.4	25.2	3.3	2.5
CE	20220521	Cloudy	Moderate	Mid-Flood	Middle	12.4	10:45	8.5	8.0	33.6	25.2	3.1	2.5
CE	20220521	Cloudy	Moderate	Mid-Flood	Middle	12.4	10:45	8.5	8.1	33.7	25.4	3.1	2.5
CE	20220521	Cloudy	Moderate	Mid-Flood	Bottom	23.7	10:44	8.6	8.1	33.4	25.2	3.4	3.0
CE	20220521	Cloudy	Moderate	Mid-Flood	Bottom	23.7	10:44	8.4	8.1	33.5	25.1	3.3	3.0
CF	20220521	Cloudy	Moderate	Mid-Flood	Surface	1.0	8:02	8.8	8.2	33.0	25.4	4.1	3.0
CF	20220521	Cloudy	Moderate	Mid-Flood	Surface	1.0	8:02	9.0	8.2	32.9	25.6	4.2	3.0
CF	20220521	Cloudy	Moderate	Mid-Flood	Middle	10.3	8:01	8.9	8.2	32.8	25.4	3.9	3.0
CF	20220521	Cloudy	Moderate	Mid-Flood	Middle	10.3	8:01	9.0	8.2	32.9	25.7	3.8	4.0
CF	20220521	Cloudy	Moderate	Mid-Flood	Bottom	19.6	8:00	8.9	8.2	32.7	25.5	4.4	2.5
CF	20220521	Cloudy	Moderate	Mid-Flood	Bottom	19.6	8:00	8.8	8.2	32.8	25.7	4.3	4.0
WSR01	20220521	Cloudy	Moderate	Mid-Flood	Surface	1.0	8:26	9.5	8.1	33.4	25.2	2.7	2.5
WSR01	20220521	Cloudy	Moderate	Mid-Flood	Surface	1.0	8:26	9.5	8.1	33.7	25.3	3.1	2.5

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR01	20220521	Cloudy	Moderate	Mid-Flood	Middle	4.8	8:25	9.4	8.0	33.7	25.0	2.8	3.0
WSR01	20220521	Cloudy	Moderate	Mid-Flood	Middle	4.8	8:25	9.4	8.0	33.5	25.3	3.2	5.0
WSR01	20220521	Cloudy	Moderate	Mid-Flood	Bottom	8.5	8:24	9.4	8.1	33.7	25.3	2.6	3.0
WSR01	20220521	Cloudy	Moderate	Mid-Flood	Bottom	8.5	8:24	9.4	8.1	33.8	25.0	2.4	3.0
WSR02	20220521	Cloudy	Moderate	Mid-Flood	Surface	1.0	8:45	8.9	8.2	33.2	25.0	3.5	3.0
WSR02	20220521	Cloudy	Moderate	Mid-Flood	Surface	1.0	8:45	9.0	8.2	33.3	25.1	3.6	2.5
WSR02	20220521	Cloudy	Moderate	Mid-Flood	Middle	4.9	8:44	8.9	8.2	33.3	25.0	3.3	3.0
WSR02	20220521	Cloudy	Moderate	Mid-Flood	Middle	4.9	8:44	8.9	8.2	33.4	25.0	3.6	2.5
WSR02	20220521	Cloudy	Moderate	Mid-Flood	Bottom	8.7	8:43	8.9	8.2	33.6	24.9	3.3	2.5
WSR02	20220521	Cloudy	Moderate	Mid-Flood	Bottom	8.7	8:43	9.0	8.2	33.5	25.1	3.3	2.5
WSR03	20220521	Cloudy	Moderate	Mid-Flood	Surface	1.0	8:59	8.8	8.1	32.5	25.5	3.9	3.0
WSR03	20220521	Cloudy	Moderate	Mid-Flood	Surface	1.0	8:59	8.8	8.1	32.5	25.5	3.6	3.0
WSR03	20220521	Cloudy	Moderate	Mid-Flood	Middle	3.9	8:58	8.8	8.1	32.6	25.5	3.0	3.0
WSR03	20220521	Cloudy	Moderate	Mid-Flood	Middle	3.9	8:58	8.9	8.1	32.7	25.4	3.6	3.0
WSR03	20220521	Cloudy	Moderate	Mid-Flood	Bottom	6.7	8:57	8.8	8.1	32.4	25.5	3.4	3.0
WSR03	20220521	Cloudy	Moderate	Mid-Flood	Bottom	6.7	8:57	9.0	8.1	32.6	25.5	3.0	3.0
WSR04	20220521	Cloudy	Moderate	Mid-Flood	Surface	1.0	9:15	9.0	8.1	33.6	25.2	3.6	3.0
WSR04	20220521	Cloudy	Moderate	Mid-Flood	Surface	1.0	9:15	9.1	8.1	33.6	25.4	3.4	2.5
WSR04	20220521	Cloudy	Moderate	Mid-Flood	Middle	3.4	9:14	9.1	8.1	33.6	25.2	3.5	3.0
WSR04	20220521	Cloudy	Moderate	Mid-Flood	Middle	3.4	9:14	8.9	8.1	33.5	25.3	3.0	2.5
WSR04	20220521	Cloudy	Moderate	Mid-Flood	Bottom	5.7	9:13	9.0	8.1	33.6	25.2	3.4	4.0
WSR04	20220521	Cloudy	Moderate	Mid-Flood	Bottom	5.7	9:13	9.0	8.1	33.7	25.3	2.9	3.0
WSR16	20220521	Cloudy	Moderate	Mid-Flood	Surface	1.0	10:22	8.4	8.2	33.6	25.5	3.3	4.0
WSR16	20220521	Cloudy	Moderate	Mid-Flood	Surface	1.0	10:22	8.5	8.2	33.5	25.7	3.6	2.5
WSR16	20220521	Cloudy	Moderate	Mid-Flood	Middle	8.6	10:21	8.4	8.2	33.6	25.5	3.7	3.0
WSR16	20220521	Cloudy	Moderate	Mid-Flood	Middle	8.6	10:21	8.6	8.1	33.5	25.7	3.4	2.5

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR16	20220521	Cloudy	Moderate	Mid-Flood	Bottom	16.2	10:20	8.6	8.2	33.5	25.5	2.9	3.0
WSR16	20220521	Cloudy	Moderate	Mid-Flood	Bottom	16.2	10:20	8.4	8.2	33.4	25.6	2.8	4.0
WSR33	20220521	Cloudy	Moderate	Mid-Flood	Surface	1.0	9:29	8.6	8.0	32.8	25.6	3.0	3.0
WSR33	20220521	Cloudy	Moderate	Mid-Flood	Surface	1.0	9:29	8.4	8.0	32.7	25.6	3.3	4.0
WSR33	20220521	Cloudy	Moderate	Mid-Flood	Middle	3.9	9:28	8.4	8.0	32.7	25.5	2.5	6.0
WSR33	20220521	Cloudy	Moderate	Mid-Flood	Middle	3.9	9:28	8.6	8.0	32.9	25.4	2.4	6.0
WSR33	20220521	Cloudy	Moderate	Mid-Flood	Bottom	6.7	9:27	8.5	8.0	32.8	25.5	2.8	7.0
WSR33	20220521	Cloudy	Moderate	Mid-Flood	Bottom	6.7	9:27	8.4	8.0	32.8	25.4	2.8	5.0
WSR36	20220521	Cloudy	Moderate	Mid-Flood	Surface	1.0	9:42	8.6	8.1	33.1	25.1	2.8	6.0
WSR36	20220521	Cloudy	Moderate	Mid-Flood	Surface	1.0	9:42	8.6	8.1	33.1	25.0	3.0	4.0
WSR36	20220521	Cloudy	Moderate	Mid-Flood	Middle	3.8	9:42	8.6	8.1	33.1	25.1	3.0	7.0
WSR36	20220521	Cloudy	Moderate	Mid-Flood	Middle	3.8	9:42	8.4	8.1	33.0	25.2	2.8	6.0
WSR36	20220521	Cloudy	Moderate	Mid-Flood	Bottom	6.5	9:41	8.7	8.1	33.2	25.2	2.6	4.0
WSR36	20220521	Cloudy	Moderate	Mid-Flood	Bottom	6.5	9:41	8.6	8.1	33.0	25.1	3.1	5.0
WSR37	20220521	Cloudy	Moderate	Mid-Flood	Surface	1.0	9:59	9.3	8.1	32.8	25.3	3.7	7.0
WSR37	20220521	Cloudy	Moderate	Mid-Flood	Surface	1.0	9:59	9.4	8.1	32.9	25.4	3.6	7.0
WSR37	20220521	Cloudy	Moderate	Mid-Flood	Middle	4.2	9:58	9.4	8.1	32.9	25.3	3.6	4.0
WSR37	20220521	Cloudy	Moderate	Mid-Flood	Middle	4.2	9:58	9.1	8.0	33.0	25.3	3.3	2.5
WSR37	20220521	Cloudy	Moderate	Mid-Flood	Bottom	7.4	9:57	9.2	8.0	33.0	25.4	3.1	2.5
WSR37	20220521	Cloudy	Moderate	Mid-Flood	Bottom	7.4	9:57	9.3	8.1	33.0	25.2	2.9	2.5
CE	20220524	Cloudy	Moderate	Mid-Flood	Surface	1.0	14:02	9.0	8.2	32.4	25.2	3.1	2.5
CE	20220524	Cloudy	Moderate	Mid-Flood	Surface	1.0	14:02	9.2	8.1	32.4	25.2	2.8	2.5
CE	20220524	Cloudy	Moderate	Mid-Flood	Middle	11.6	14:01	9.0	8.1	32.6	24.9	2.9	2.5
CE	20220524	Cloudy	Moderate	Mid-Flood	Middle	11.6	14:01	9.0	8.1	32.7	25.1	2.8	3.0
CE	20220524	Cloudy	Moderate	Mid-Flood	Bottom	22.1	14:00	9.1	8.2	32.5	25.1	2.9	2.5
CE	20220524	Cloudy	Moderate	Mid-Flood	Bottom	22.1	14:00	9.1	8.2	32.4	25.1	3.2	2.5

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
CF	20220524	Cloudy	Moderate	Mid-Flood	Surface	1.0	11:26	8.9	8.1	32.4	24.9	3.4	2.5
CF	20220524	Cloudy	Moderate	Mid-Flood	Surface	1.0	11:26	8.9	8.1	32.6	24.9	3.5	2.5
CF	20220524	Cloudy	Moderate	Mid-Flood	Middle	10.8	11:25	9.1	8.2	32.7	25.0	3.8	2.5
CF	20220524	Cloudy	Moderate	Mid-Flood	Middle	10.8	11:25	9.2	8.2	32.7	25.1	3.6	2.5
CF	20220524	Cloudy	Moderate	Mid-Flood	Bottom	20.6	11:24	8.8	8.1	32.5	25.1	4.0	2.5
CF	20220524	Cloudy	Moderate	Mid-Flood	Bottom	20.6	11:24	9.0	8.1	32.6	24.8	3.9	4.0
WSR01	20220524	Cloudy	Moderate	Mid-Flood	Surface	1.0	11:50	9.3	8.2	32.4	25.6	2.9	2.5
WSR01	20220524	Cloudy	Moderate	Mid-Flood	Surface	1.0	11:50	9.2	8.2	32.2	25.6	2.9	2.5
WSR01	20220524	Cloudy	Moderate	Mid-Flood	Middle	4.7	11:49	9.1	8.2	32.3	25.5	2.4	3.0
WSR01	20220524	Cloudy	Moderate	Mid-Flood	Middle	4.7	11:49	9.2	8.2	32.3	25.5	2.7	4.0
WSR01	20220524	Cloudy	Moderate	Mid-Flood	Bottom	8.3	11:48	9.3	8.3	32.4	25.5	2.1	3.0
WSR01	20220524	Cloudy	Moderate	Mid-Flood	Bottom	8.3	11:48	9.5	8.2	32.2	25.4	2.1	2.5
WSR02	20220524	Cloudy	Moderate	Mid-Flood	Surface	1.0	12:08	9.3	8.2	32.5	25.4	3.1	4.0
WSR02	20220524	Cloudy	Moderate	Mid-Flood	Surface	1.0	12:08	9.4	8.2	32.8	25.5	3.1	3.0
WSR02	20220524	Cloudy	Moderate	Mid-Flood	Middle	4.9	12:07	9.3	8.2	32.7	25.5	2.9	3.0
WSR02	20220524	Cloudy	Moderate	Mid-Flood	Middle	4.9	12:07	9.4	8.3	32.8	25.5	2.9	2.5
WSR02	20220524	Cloudy	Moderate	Mid-Flood	Bottom	8.8	12:06	9.5	8.2	32.5	25.4	2.1	3.0
WSR02	20220524	Cloudy	Moderate	Mid-Flood	Bottom	8.8	12:06	9.3	8.2	32.7	25.3	2.3	3.0
WSR03	20220524	Cloudy	Moderate	Mid-Flood	Surface	1.0	12:21	9.7	8.3	32.2	25.0	2.7	3.0
WSR03	20220524	Cloudy	Moderate	Mid-Flood	Surface	1.0	12:21	9.4	8.2	32.4	25.1	2.5	3.0
WSR03	20220524	Cloudy	Moderate	Mid-Flood	Middle	4.2	12:20	9.7	8.3	32.2	25.2	1.9	3.0
WSR03	20220524	Cloudy	Moderate	Mid-Flood	Middle	4.2	12:20	9.7	8.2	32.1	25.2	2.2	5.0
WSR03	20220524	Cloudy	Moderate	Mid-Flood	Bottom	7.4	12:19	9.4	8.3	32.5	25.0	2.3	2.5
WSR03	20220524	Cloudy	Moderate	Mid-Flood	Bottom	7.4	12:19	9.8	8.3	32.5	25.2	2.2	3.0
WSR04	20220524	Cloudy	Moderate	Mid-Flood	Surface	1.0	12:35	8.7	8.2	32.9	25.0	2.6	3.0
WSR04	20220524	Cloudy	Moderate	Mid-Flood	Surface	1.0	12:35	8.7	8.1	32.9	25.1	2.5	4.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR04	20220524	Cloudy	Moderate	Mid-Flood	Middle	3.5	12:34	8.9	8.1	33.1	25.0	2.3	2.5
WSR04	20220524	Cloudy	Moderate	Mid-Flood	Middle	3.5	12:34	8.7	8.2	33.2	25.0	2.2	3.0
WSR04	20220524	Cloudy	Moderate	Mid-Flood	Bottom	6.0	12:33	8.8	8.1	32.9	25.0	2.1	2.5
WSR04	20220524	Cloudy	Moderate	Mid-Flood	Bottom	6.0	12:33	8.9	8.1	33.2	25.0	2.0	2.5
WSR16	20220524	Cloudy	Moderate	Mid-Flood	Surface	1.0	13:39	9.9	8.1	32.4	25.1	2.3	3.0
WSR16	20220524	Cloudy	Moderate	Mid-Flood	Surface	1.0	13:39	9.6	8.1	32.3	25.1	2.7	2.5
WSR16	20220524	Cloudy	Moderate	Mid-Flood	Middle	8.0	13:38	9.7	8.2	32.2	25.0	2.5	2.5
WSR16	20220524	Cloudy	Moderate	Mid-Flood	Middle	8.0	13:38	9.9	8.1	32.3	25.0	2.5	3.0
WSR16	20220524	Cloudy	Moderate	Mid-Flood	Bottom	14.9	13:37	9.7	8.2	32.3	24.9	2.3	4.0
WSR16	20220524	Cloudy	Moderate	Mid-Flood	Bottom	14.9	13:37	9.6	8.1	32.4	24.8	2.3	2.5
WSR33	20220524	Cloudy	Moderate	Mid-Flood	Surface	1.0	12:49	9.8	8.2	32.3	25.5	2.4	2.5
WSR33	20220524	Cloudy	Moderate	Mid-Flood	Surface	1.0	12:49	9.5	8.1	32.5	25.8	2.6	2.5
WSR33	20220524	Cloudy	Moderate	Mid-Flood	Middle	3.8	12:48	9.8	8.1	32.4	25.7	2.1	2.5
WSR33	20220524	Cloudy	Moderate	Mid-Flood	Middle	3.8	12:48	9.7	8.2	32.2	25.8	2.5	3.0
WSR33	20220524	Cloudy	Moderate	Mid-Flood	Bottom	6.6	12:47	9.8	8.1	32.3	25.8	2.0	2.5
WSR33	20220524	Cloudy	Moderate	Mid-Flood	Bottom	6.6	12:47	9.7	8.2	32.2	25.5	2.3	2.5
WSR36	20220524	Cloudy	Moderate	Mid-Flood	Surface	1.0	13:02	9.4	8.1	32.3	24.8	3.0	2.5
WSR36	20220524	Cloudy	Moderate	Mid-Flood	Surface	1.0	13:02	9.6	8.2	32.1	25.0	2.8	4.0
WSR36	20220524	Cloudy	Moderate	Mid-Flood	Middle	3.6	13:02	9.5	8.1	32.1	24.8	2.7	2.5
WSR36	20220524	Cloudy	Moderate	Mid-Flood	Middle	3.6	13:02	9.3	8.2	32.2	25.0	2.3	2.5
WSR36	20220524	Cloudy	Moderate	Mid-Flood	Bottom	6.1	13:01	9.6	8.2	32.1	25.0	2.5	3.0
WSR36	20220524	Cloudy	Moderate	Mid-Flood	Bottom	6.1	13:01	9.5	8.2	32.1	24.9	2.3	4.0
WSR37	20220524	Cloudy	Moderate	Mid-Flood	Surface	1.0	13:17	9.1	8.3	32.2	25.0	2.9	2.5
WSR37	20220524	Cloudy	Moderate	Mid-Flood	Surface	1.0	13:17	8.9	8.3	32.4	25.0	3.2	4.0
WSR37	20220524	Cloudy	Moderate	Mid-Flood	Middle	4.0	13:16	9.0	8.2	32.4	25.0	3.0	2.5
WSR37	20220524	Cloudy	Moderate	Mid-Flood	Middle	4.0	13:16	9.1	8.3	32.3	25.0	2.8	2.5

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR37	20220524	Cloudy	Moderate	Mid-Flood	Bottom	6.9	13:15	8.9	8.2	32.1	25.0	2.7	2.5
WSR37	20220524	Cloudy	Moderate	Mid-Flood	Bottom	6.9	13:15	8.8	8.3	32.1	24.7	3.0	2.5
CE	20220526	Cloudy	Moderate	Mid-Flood	Surface	1.0	16:37	9.1	8.4	33.0	25.6	3.4	2.5
CE	20220526	Cloudy	Moderate	Mid-Flood	Surface	1.0	16:37	9.1	8.3	33.0	25.7	3.3	2.5
CE	20220526	Cloudy	Moderate	Mid-Flood	Middle	11.9	16:36	9.0	8.3	33.0	25.7	3.5	3.0
CE	20220526	Cloudy	Moderate	Mid-Flood	Middle	11.9	16:36	9.0	8.4	32.9	25.6	3.5	3.0
CE	20220526	Cloudy	Moderate	Mid-Flood	Bottom	22.8	16:35	9.0	8.4	33.2	25.5	3.8	3.0
CE	20220526	Cloudy	Moderate	Mid-Flood	Bottom	22.8	16:35	9.0	8.3	33.0	25.7	3.7	3.0
CF	20220526	Cloudy	Moderate	Mid-Flood	Surface	1.0	13:59	9.0	8.3	32.9	25.7	3.8	3.0
CF	20220526	Cloudy	Moderate	Mid-Flood	Surface	1.0	13:59	9.0	8.3	32.8	25.6	3.9	3.0
CF	20220526	Cloudy	Moderate	Mid-Flood	Middle	10.5	13:58	9.0	8.3	32.9	25.4	3.9	4.0
CF	20220526	Cloudy	Moderate	Mid-Flood	Middle	10.5	13:58	9.1	8.3	33.0	25.5	3.9	3.0
CF	20220526	Cloudy	Moderate	Mid-Flood	Bottom	19.9	13:57	9.2	8.3	32.7	25.4	4.2	5.0
CF	20220526	Cloudy	Moderate	Mid-Flood	Bottom	19.9	13:57	9.0	8.3	32.8	25.5	4.1	5.0
WSR01	20220526	Cloudy	Moderate	Mid-Flood	Surface	1.0	14:23	8.2	8.4	32.5	25.7	2.6	3.0
WSR01	20220526	Cloudy	Moderate	Mid-Flood	Surface	1.0	14:23	8.3	8.3	32.6	25.7	2.9	4.0
WSR01	20220526	Cloudy	Moderate	Mid-Flood	Middle	4.5	14:22	8.4	8.4	32.4	26.0	2.5	5.0
WSR01	20220526	Cloudy	Moderate	Mid-Flood	Middle	4.5	14:22	8.3	8.3	32.6	25.9	2.2	5.0
WSR01	20220526	Cloudy	Moderate	Mid-Flood	Bottom	8.0	14:21	8.4	8.3	32.4	25.7	2.2	4.0
WSR01	20220526	Cloudy	Moderate	Mid-Flood	Bottom	8.0	14:21	8.4	8.3	32.6	25.9	2.3	4.0
WSR02	20220526	Cloudy	Moderate	Mid-Flood	Surface	1.0	14:41	9.2	8.2	33.0	25.7	2.2	4.0
WSR02	20220526	Cloudy	Moderate	Mid-Flood	Surface	1.0	14:41	9.1	8.2	32.9	25.9	1.9	6.0
WSR02	20220526	Cloudy	Moderate	Mid-Flood	Middle	5.0	14:40	9.2	8.3	32.9	25.8	1.9	2.5
WSR02	20220526	Cloudy	Moderate	Mid-Flood	Middle	5.0	14:40	9.0	8.3	33.0	25.9	2.0	2.5
WSR02	20220526	Cloudy	Moderate	Mid-Flood	Bottom	8.9	14:39	9.1	8.2	32.9	25.9	2.4	2.5
WSR02	20220526	Cloudy	Moderate	Mid-Flood	Bottom	8.9	14:39	9.0	8.2	32.8	25.9	2.2	3.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR03	20220526	Cloudy	Moderate	Mid-Flood	Surface	1.0	14:54	8.8	8.2	33.0	26.0	3.6	3.0
WSR03	20220526	Cloudy	Moderate	Mid-Flood	Surface	1.0	14:54	8.8	8.2	33.0	26.0	3.4	3.0
WSR03	20220526	Cloudy	Moderate	Mid-Flood	Middle	3.7	14:53	9.0	8.2	33.0	25.9	3.1	2.5
WSR03	20220526	Cloudy	Moderate	Mid-Flood	Middle	3.7	14:53	8.9	8.2	33.0	25.9	2.6	3.0
WSR03	20220526	Cloudy	Moderate	Mid-Flood	Bottom	6.4	14:52	8.8	8.2	33.0	25.8	2.3	2.5
WSR03	20220526	Cloudy	Moderate	Mid-Flood	Bottom	6.4	14:52	8.8	8.2	33.0	25.7	2.4	2.5
WSR04	20220526	Cloudy	Moderate	Mid-Flood	Surface	1.0	15:07	8.7	8.2	33.0	25.8	3.4	2.5
WSR04	20220526	Cloudy	Moderate	Mid-Flood	Surface	1.0	15:07	8.6	8.3	33.2	25.8	3.0	2.5
WSR04	20220526	Cloudy	Moderate	Mid-Flood	Middle	3.6	15:06	8.7	8.3	33.0	25.6	2.7	2.5
WSR04	20220526	Cloudy	Moderate	Mid-Flood	Middle	3.6	15:06	8.6	8.3	33.2	25.8	2.8	2.5
WSR04	20220526	Cloudy	Moderate	Mid-Flood	Bottom	6.2	15:05	8.7	8.3	33.0	25.8	3.2	2.5
WSR04	20220526	Cloudy	Moderate	Mid-Flood	Bottom	6.2	15:05	8.8	8.3	33.1	25.7	2.8	3.0
WSR16	20220526	Cloudy	Moderate	Mid-Flood	Surface	1.0	16:13	8.2	8.3	32.7	25.6	3.0	3.0
WSR16	20220526	Cloudy	Moderate	Mid-Flood	Surface	1.0	16:13	8.4	8.2	33.0	25.4	3.1	2.5
WSR16	20220526	Cloudy	Moderate	Mid-Flood	Middle	7.7	16:12	8.3	8.2	32.9	25.5	2.8	2.5
WSR16	20220526	Cloudy	Moderate	Mid-Flood	Middle	7.7	16:12	8.3	8.2	32.7	25.5	2.6	3.0
WSR16	20220526	Cloudy	Moderate	Mid-Flood	Bottom	14.3	16:11	8.3	8.2	32.7	25.5	2.3	4.0
WSR16	20220526	Cloudy	Moderate	Mid-Flood	Bottom	14.3	16:11	8.4	8.2	32.8	25.6	2.3	4.0
WSR33	20220526	Cloudy	Moderate	Mid-Flood	Surface	1.0	15:21	8.6	8.3	32.3	26.0	2.6	2.5
WSR33	20220526	Cloudy	Moderate	Mid-Flood	Surface	1.0	15:21	8.6	8.3	32.5	26.0	2.6	4.0
WSR33	20220526	Cloudy	Moderate	Mid-Flood	Middle	3.5	15:20	8.7	8.3	32.3	26.2	2.5	2.5
WSR33	20220526	Cloudy	Moderate	Mid-Flood	Middle	3.5	15:20	8.7	8.3	32.4	26.0	2.5	3.0
WSR33	20220526	Cloudy	Moderate	Mid-Flood	Bottom	6.0	15:19	8.6	8.2	32.4	26.2	2.6	3.0
WSR33	20220526	Cloudy	Moderate	Mid-Flood	Bottom	6.0	15:19	8.5	8.3	32.5	26.2	2.4	2.5
WSR36	20220526	Cloudy	Moderate	Mid-Flood	Surface	1.0	15:34	9.2	8.4	32.6	25.8	3.2	2.5
WSR36	20220526	Cloudy	Moderate	Mid-Flood	Surface	1.0	15:34	9.2	8.3	32.6	25.8	3.3	3.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR36	20220526	Cloudy	Moderate	Mid-Flood	Middle	3.8	15:34	9.0	8.4	32.5	25.9	2.6	4.0
WSR36	20220526	Cloudy	Moderate	Mid-Flood	Middle	3.8	15:34	9.1	8.3	32.5	25.7	2.5	4.0
WSR36	20220526	Cloudy	Moderate	Mid-Flood	Bottom	6.6	15:33	9.0	8.3	32.3	25.7	2.5	2.5
WSR36	20220526	Cloudy	Moderate	Mid-Flood	Bottom	6.6	15:33	9.1	8.4	32.4	25.8	2.6	4.0
WSR37	20220526	Cloudy	Moderate	Mid-Flood	Surface	1.0	15:50	8.5	8.2	32.7	26.0	2.5	3.0
WSR37	20220526	Cloudy	Moderate	Mid-Flood	Surface	1.0	15:50	8.5	8.2	32.9	25.8	2.3	4.0
WSR37	20220526	Cloudy	Moderate	Mid-Flood	Middle	4.2	15:49	8.6	8.3	32.8	26.0	2.2	4.0
WSR37	20220526	Cloudy	Moderate	Mid-Flood	Middle	4.2	15:49	8.5	8.2	32.8	25.9	2.3	4.0
WSR37	20220526	Cloudy	Moderate	Mid-Flood	Bottom	7.4	15:48	8.5	8.3	32.9	26.0	1.9	4.0
WSR37	20220526	Cloudy	Moderate	Mid-Flood	Bottom	7.4	15:48	8.5	8.3	32.7	26.0	2.2	2.5
CE	20220528	Cloudy	Moderate	Mid-Flood	Surface	1.0	18:26	8.8	8.4	33.0	26.2	3.1	2.5
CE	20220528	Cloudy	Moderate	Mid-Flood	Surface	1.0	18:26	8.9	8.3	33.0	26.1	3.1	3.0
CE	20220528	Cloudy	Moderate	Mid-Flood	Middle	10.1	18:25	8.8	8.4	32.9	26.1	3.2	3.0
CE	20220528	Cloudy	Moderate	Mid-Flood	Middle	10.1	18:25	8.9	8.3	33.1	26.3	3.1	4.0
CE	20220528	Cloudy	Moderate	Mid-Flood	Bottom	19.2	18:24	8.8	8.4	33.0	26.2	3.3	2.5
CE	20220528	Cloudy	Moderate	Mid-Flood	Bottom	19.2	18:24	8.8	8.3	32.9	26.1	3.4	2.5
CF	20220528	Cloudy	Moderate	Mid-Flood	Surface	1.0	15:54	8.1	8.4	33.0	25.6	3.8	3.0
CF	20220528	Cloudy	Moderate	Mid-Flood	Surface	1.0	15:54	8.2	8.3	32.9	25.6	3.9	3.0
CF	20220528	Cloudy	Moderate	Mid-Flood	Middle	10.5	15:53	8.0	8.3	33.1	25.7	4.1	2.5
CF	20220528	Cloudy	Moderate	Mid-Flood	Middle	10.5	15:53	8.1	8.3	33.0	25.6	4.0	3.0
CF	20220528	Cloudy	Moderate	Mid-Flood	Bottom	19.9	15:52	8.0	8.3	33.1	25.6	4.1	6.0
CF	20220528	Cloudy	Moderate	Mid-Flood	Bottom	19.9	15:52	8.1	8.4	32.9	25.7	4.3	6.0
WSR01	20220528	Cloudy	Moderate	Mid-Flood	Surface	1.0	16:16	8.0	8.2	33.2	26.2	3.8	3.0
WSR01	20220528	Cloudy	Moderate	Mid-Flood	Surface	1.0	16:16	8.1	8.2	33.1	26.2	3.8	3.0
WSR01	20220528	Cloudy	Moderate	Mid-Flood	Middle	4.6	16:15	8.1	8.1	33.4	26.3	3.5	3.0
WSR01	20220528	Cloudy	Moderate	Mid-Flood	Middle	4.6	16:15	8.1	8.2	33.2	26.2	3.4	6.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR01	20220528	Cloudy	Moderate	Mid-Flood	Bottom	8.2	16:14	8.1	8.2	33.1	26.1	3.5	2.5
WSR01	20220528	Cloudy	Moderate	Mid-Flood	Bottom	8.2	16:14	8.1	8.1	33.1	26.2	3.3	3.0
WSR02	20220528	Cloudy	Moderate	Mid-Flood	Surface	1.0	16:33	8.8	8.3	32.8	25.8	2.1	2.5
WSR02	20220528	Cloudy	Moderate	Mid-Flood	Surface	1.0	16:33	8.8	8.4	32.6	25.7	2.0	3.0
WSR02	20220528	Cloudy	Moderate	Mid-Flood	Middle	4.9	16:32	8.8	8.4	32.7	25.7	2.4	3.0
WSR02	20220528	Cloudy	Moderate	Mid-Flood	Middle	4.9	16:32	8.8	8.4	32.7	25.8	2.3	4.0
WSR02	20220528	Cloudy	Moderate	Mid-Flood	Bottom	8.8	16:31	8.8	8.4	32.7	25.8	2.3	4.0
WSR02	20220528	Cloudy	Moderate	Mid-Flood	Bottom	8.8	16:31	8.8	8.4	32.8	25.8	2.6	3.0
WSR03	20220528	Cloudy	Moderate	Mid-Flood	Surface	1.0	16:45	9.1	8.2	33.1	25.6	2.7	3.0
WSR03	20220528	Cloudy	Moderate	Mid-Flood	Surface	1.0	16:45	9.0	8.3	33.2	25.6	2.7	3.0
WSR03	20220528	Cloudy	Moderate	Mid-Flood	Middle	3.8	16:44	9.1	8.2	33.2	25.6	2.6	3.0
WSR03	20220528	Cloudy	Moderate	Mid-Flood	Middle	3.8	16:44	9.0	8.3	33.1	25.6	2.8	4.0
WSR03	20220528	Cloudy	Moderate	Mid-Flood	Bottom	6.6	16:43	9.1	8.3	33.1	25.7	2.3	4.0
WSR03	20220528	Cloudy	Moderate	Mid-Flood	Bottom	6.6	16:43	9.0	8.3	33.1	25.6	2.0	3.0
WSR04	20220528	Cloudy	Moderate	Mid-Flood	Surface	1.0	16:59	8.5	8.2	32.4	26.2	2.9	5.0
WSR04	20220528	Cloudy	Moderate	Mid-Flood	Surface	1.0	16:59	8.4	8.2	32.6	26.1	2.7	4.0
WSR04	20220528	Cloudy	Moderate	Mid-Flood	Middle	3.5	16:58	8.3	8.3	32.5	26.2	2.3	3.0
WSR04	20220528	Cloudy	Moderate	Mid-Flood	Middle	3.5	16:58	8.5	8.2	32.6	26.2	2.7	3.0
WSR04	20220528	Cloudy	Moderate	Mid-Flood	Bottom	5.9	16:57	8.4	8.2	32.5	26.3	2.2	2.5
WSR04	20220528	Cloudy	Moderate	Mid-Flood	Bottom	5.9	16:57	8.5	8.2	32.6	26.3	2.0	4.0
WSR16	20220528	Cloudy	Moderate	Mid-Flood	Surface	1.0	18:03	8.8	8.2	32.6	26.2	3.6	4.0
WSR16	20220528	Cloudy	Moderate	Mid-Flood	Surface	1.0	18:03	8.8	8.2	32.5	26.1	3.7	3.0
WSR16	20220528	Cloudy	Moderate	Mid-Flood	Middle	7.6	18:02	8.7	8.2	32.6	26.2	3.4	3.0
WSR16	20220528	Cloudy	Moderate	Mid-Flood	Middle	7.6	18:02	8.8	8.2	32.4	26.2	3.2	4.0
WSR16	20220528	Cloudy	Moderate	Mid-Flood	Bottom	14.2	18:01	8.8	8.2	32.6	26.1	2.5	3.0
WSR16	20220528	Cloudy	Moderate	Mid-Flood	Bottom	14.2	18:01	8.8	8.1	32.6	26.3	2.5	2.5

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR33	20220528	Cloudy	Moderate	Mid-Flood	Surface	1.0	17:13	8.9	8.2	32.9	25.7	3.2	2.5
WSR33	20220528	Cloudy	Moderate	Mid-Flood	Surface	1.0	17:13	8.9	8.2	33.0	25.8	3.6	3.0
WSR33	20220528	Cloudy	Moderate	Mid-Flood	Middle	3.6	17:12	8.9	8.3	32.9	25.8	3.6	5.0
WSR33	20220528	Cloudy	Moderate	Mid-Flood	Middle	3.6	17:12	8.8	8.3	33.1	25.8	3.5	3.0
WSR33	20220528	Cloudy	Moderate	Mid-Flood	Bottom	6.2	17:11	8.8	8.2	32.9	25.8	3.1	3.0
WSR33	20220528	Cloudy	Moderate	Mid-Flood	Bottom	6.2	17:11	8.7	8.2	32.9	25.8	3.1	3.0
WSR36	20220528	Cloudy	Moderate	Mid-Flood	Surface	1.0	17:26	8.9	8.2	33.1	25.9	3.5	3.0
WSR36	20220528	Cloudy	Moderate	Mid-Flood	Surface	1.0	17:26	8.8	8.2	32.9	25.9	3.6	3.0
WSR36	20220528	Cloudy	Moderate	Mid-Flood	Middle	3.2	17:26	8.9	8.2	32.9	26.0	3.6	4.0
WSR36	20220528	Cloudy	Moderate	Mid-Flood	Middle	3.2	17:26	8.8	8.1	32.9	26.0	3.2	5.0
WSR36	20220528	Cloudy	Moderate	Mid-Flood	Bottom	5.3	17:25	8.9	8.1	32.8	26.0	3.1	3.0
WSR36	20220528	Cloudy	Moderate	Mid-Flood	Bottom	5.3	17:25	8.8	8.1	33.1	26.0	3.3	4.0
WSR37	20220528	Cloudy	Moderate	Mid-Flood	Surface	1.0	17:41	8.5	8.3	33.4	26.1	2.9	4.0
WSR37	20220528	Cloudy	Moderate	Mid-Flood	Surface	1.0	17:41	8.6	8.3	33.3	26.1	3.0	5.0
WSR37	20220528	Cloudy	Moderate	Mid-Flood	Middle	4.1	17:40	8.6	8.3	33.2	26.1	2.9	5.0
WSR37	20220528	Cloudy	Moderate	Mid-Flood	Middle	4.1	17:40	8.6	8.3	33.2	26.1	2.6	5.0
WSR37	20220528	Cloudy	Moderate	Mid-Flood	Bottom	7.1	17:39	8.5	8.3	33.2	26.1	2.3	3.0
WSR37	20220528	Cloudy	Moderate	Mid-Flood	Bottom	7.1	17:39	8.5	8.2	33.3	26.1	2.3	4.0
CE	20220531	Cloudy	Moderate	Mid-Flood	Surface	1.0	19:23	8.1	8.4	33.2	26.0	3.2	7.0
CE	20220531	Cloudy	Moderate	Mid-Flood	Surface	1.0	19:23	8.2	8.4	33.1	25.9	3.6	7.0
CE	20220531	Cloudy	Moderate	Mid-Flood	Middle	12.0	19:22	8.2	8.3	33.1	26.1	3.7	8.0
CE	20220531	Cloudy	Moderate	Mid-Flood	Middle	12.0	19:22	8.1	8.3	33.1	26.1	3.8	8.0
CE	20220531	Cloudy	Moderate	Mid-Flood	Bottom	22.9	19:21	8.2	8.3	33.0	25.9	3.9	10.0
CE	20220531	Cloudy	Moderate	Mid-Flood	Bottom	22.9	19:21	8.1	8.4	33.1	26.1	4.1	11.0
CF	20220531	Cloudy	Moderate	Mid-Flood	Surface	1.0	16:45	8.6	8.2	32.4	25.9	3.5	9.0
CF	20220531	Cloudy	Moderate	Mid-Flood	Surface	1.0	16:45	8.5	8.2	32.5	25.8	3.9	8.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
CF	20220531	Cloudy	Moderate	Mid-Flood	Middle	10.6	16:44	8.5	8.2	32.6	25.8	3.9	9.0
CF	20220531	Cloudy	Moderate	Mid-Flood	Middle	10.6	16:44	8.5	8.2	32.5	25.9	4.3	7.0
CF	20220531	Cloudy	Moderate	Mid-Flood	Bottom	20.2	16:43	8.4	8.2	32.6	26.0	4.5	13.0
CF	20220531	Cloudy	Moderate	Mid-Flood	Bottom	20.2	16:43	8.6	8.3	32.4	25.9	4.5	11.0
WSR01	20220531	Cloudy	Moderate	Mid-Flood	Surface	1.0	17:08	8.9	8.5	33.4	25.9	2.5	14.0
WSR01	20220531	Cloudy	Moderate	Mid-Flood	Surface	1.0	17:08	8.9	8.3	33.3	26.0	2.8	14.0
WSR01	20220531	Cloudy	Moderate	Mid-Flood	Middle	4.5	17:07	8.8	8.4	33.4	25.9	2.2	12.0
WSR01	20220531	Cloudy	Moderate	Mid-Flood	Middle	4.5	17:07	8.9	8.4	33.2	26.0	2.2	12.0
WSR01	20220531	Cloudy	Moderate	Mid-Flood	Bottom	8.0	17:06	8.9	8.3	33.2	25.9	2.1	8.0
WSR01	20220531	Cloudy	Moderate	Mid-Flood	Bottom	8.0	17:06	8.9	8.4	33.4	26.0	2.3	6.0
WSR02	20220531	Cloudy	Moderate	Mid-Flood	Surface	1.0	17:27	8.6	8.1	32.4	25.9	2.5	9.0
WSR02	20220531	Cloudy	Moderate	Mid-Flood	Surface	1.0	17:27	8.5	8.1	32.6	25.9	2.7	9.0
WSR02	20220531	Cloudy	Moderate	Mid-Flood	Middle	4.5	17:26	8.5	8.2	32.4	25.9	2.4	7.0
WSR02	20220531	Cloudy	Moderate	Mid-Flood	Middle	4.5	17:26	8.4	8.2	32.6	26.0	2.8	7.0
WSR02	20220531	Cloudy	Moderate	Mid-Flood	Bottom	8.0	17:25	8.5	8.1	32.5	25.8	2.5	10.0
WSR02	20220531	Cloudy	Moderate	Mid-Flood	Bottom	8.0	17:25	8.4	8.1	32.6	25.8	2.7	11.0
WSR03	20220531	Cloudy	Moderate	Mid-Flood	Surface	1.0	17:41	8.1	8.4	32.8	26.3	2.9	9.0
WSR03	20220531	Cloudy	Moderate	Mid-Flood	Surface	1.0	17:41	8.1	8.3	32.7	26.3	2.5	10.0
WSR03	20220531	Cloudy	Moderate	Mid-Flood	Middle	3.8	17:40	8.1	8.3	32.7	26.2	2.3	8.0
WSR03	20220531	Cloudy	Moderate	Mid-Flood	Middle	3.8	17:40	8.2	8.3	32.7	26.3	2.2	8.0
WSR03	20220531	Cloudy	Moderate	Mid-Flood	Bottom	6.6	17:39	8.1	8.4	32.9	26.3	2.5	10.0
WSR03	20220531	Cloudy	Moderate	Mid-Flood	Bottom	6.6	17:39	8.1	8.3	32.9	26.2	2.5	10.0
WSR04	20220531	Cloudy	Moderate	Mid-Flood	Surface	1.0	17:55	8.4	8.3	33.2	26.2	3.2	9.0
WSR04	20220531	Cloudy	Moderate	Mid-Flood	Surface	1.0	17:55	8.4	8.4	33.3	26.1	3.6	7.0
WSR04	20220531	Cloudy	Moderate	Mid-Flood	Middle	3.9	17:54	8.4	8.4	33.3	26.2	3.1	12.0
WSR04	20220531	Cloudy	Moderate	Mid-Flood	Middle	3.9	17:54	8.3	8.3	33.4	26.1	3.0	10.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR04	20220531	Cloudy	Moderate	Mid-Flood	Bottom	6.8	17:53	8.3	8.3	33.3	26.0	2.7	9.0
WSR04	20220531	Cloudy	Moderate	Mid-Flood	Bottom	6.8	17:53	8.4	8.3	33.3	26.1	2.5	8.0
WSR16	20220531	Cloudy	Moderate	Mid-Flood	Surface	1.0	19:00	9.0	8.1	33.5	26.4	3.3	8.0
WSR16	20220531	Cloudy	Moderate	Mid-Flood	Surface	1.0	19:00	8.9	8.2	33.4	26.4	3.5	7.0
WSR16	20220531	Cloudy	Moderate	Mid-Flood	Middle	7.9	18:59	8.9	8.1	33.5	26.4	3.0	11.0
WSR16	20220531	Cloudy	Moderate	Mid-Flood	Middle	7.9	18:59	9.0	8.1	33.4	26.4	2.6	11.0
WSR16	20220531	Cloudy	Moderate	Mid-Flood	Bottom	14.8	18:58	9.0	8.1	33.4	26.4	3.1	11.0
WSR16	20220531	Cloudy	Moderate	Mid-Flood	Bottom	14.8	18:58	8.9	8.1	33.3	26.3	2.6	12.0
WSR33	20220531	Cloudy	Moderate	Mid-Flood	Surface	1.0	18:09	8.3	8.2	33.1	26.4	3.1	11.0
WSR33	20220531	Cloudy	Moderate	Mid-Flood	Surface	1.0	18:09	8.3	8.1	33.1	26.4	3.0	9.0
WSR33	20220531	Cloudy	Moderate	Mid-Flood	Middle	3.7	18:08	8.2	8.2	33.2	26.4	3.2	11.0
WSR33	20220531	Cloudy	Moderate	Mid-Flood	Middle	3.7	18:08	8.2	8.1	33.1	26.5	3.1	12.0
WSR33	20220531	Cloudy	Moderate	Mid-Flood	Bottom	6.3	18:07	8.2	8.1	33.1	26.4	2.9	11.0
WSR33	20220531	Cloudy	Moderate	Mid-Flood	Bottom	6.3	18:07	8.2	8.2	33.1	26.5	2.9	12.0
WSR36	20220531	Cloudy	Moderate	Mid-Flood	Surface	1.0	18:22	8.4	8.3	33.0	26.3	3.1	12.0
WSR36	20220531	Cloudy	Moderate	Mid-Flood	Surface	1.0	18:22	8.5	8.3	32.9	26.2	2.7	12.0
WSR36	20220531	Cloudy	Moderate	Mid-Flood	Middle	3.8	18:22	8.4	8.2	32.9	26.2	2.7	12.0
WSR36	20220531	Cloudy	Moderate	Mid-Flood	Middle	3.8	18:22	8.4	8.2	32.8	26.3	2.8	11.0
WSR36	20220531	Cloudy	Moderate	Mid-Flood	Bottom	6.5	18:21	8.4	8.2	33.0	26.2	2.4	8.0
WSR36	20220531	Cloudy	Moderate	Mid-Flood	Bottom	6.5	18:21	8.4	8.2	33.1	26.3	2.4	10.0
WSR37	20220531	Cloudy	Moderate	Mid-Flood	Surface	1.0	18:38	8.6	8.2	33.4	26.4	3.2	12.0
WSR37	20220531	Cloudy	Moderate	Mid-Flood	Surface	1.0	18:38	8.6	8.2	33.1	26.5	3.2	11.0
WSR37	20220531	Cloudy	Moderate	Mid-Flood	Middle	4.0	18:37	8.7	8.2	33.2	26.4	3.2	11.0
WSR37	20220531	Cloudy	Moderate	Mid-Flood	Middle	4.0	18:37	8.6	8.3	33.2	26.5	3.1	13.0
WSR37	20220531	Cloudy	Moderate	Mid-Flood	Bottom	7.0	18:36	8.7	8.3	33.3	26.5	2.5	13.0
WSR37	20220531	Cloudy	Moderate	Mid-Flood	Bottom	7.0	18:36	8.6	8.2	33.2	26.4	2.4	14.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
CE	20220503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	12:00	8.7	8.1	33.0	26.0	4.2	2.5
CE	20220503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	12:00	8.7	8.2	33.1	26.0	4.2	3.0
CE	20220503	Cloudy	Moderate	Mid-Ebb	Middle	11.5	11:59	8.7	8.2	33.3	25.8	4.0	2.5
CE	20220503	Cloudy	Moderate	Mid-Ebb	Middle	11.5	11:59	8.6	8.2	33.4	25.8	4.1	2.5
CE	20220503	Cloudy	Moderate	Mid-Ebb	Bottom	21.9	11:58	8.6	8.2	32.9	25.9	4.2	2.5
CE	20220503	Cloudy	Moderate	Mid-Ebb	Bottom	21.9	11:58	8.8	8.1	33.1	26.0	4.3	2.5
CF	20220503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	14:34	8.9	8.4	32.4	25.5	3.5	2.5
CF	20220503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	14:34	9.1	8.4	32.2	25.4	3.3	2.5
CF	20220503	Cloudy	Moderate	Mid-Ebb	Middle	10.7	14:33	9.1	8.3	32.4	25.5	3.3	2.5
CF	20220503	Cloudy	Moderate	Mid-Ebb	Middle	10.7	14:33	9.0	8.4	32.3	25.4	3.3	2.5
CF	20220503	Cloudy	Moderate	Mid-Ebb	Bottom	20.3	14:32	9.1	8.4	32.2	25.4	3.1	4.0
CF	20220503	Cloudy	Moderate	Mid-Ebb	Bottom	20.3	14:32	9.0	8.4	32.1	25.3	3.1	8.0
WSR01	20220503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	14:11	8.3	8.4	32.7	25.3	2.6	3.0
WSR01	20220503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	14:11	8.4	8.3	32.9	25.3	2.2	5.0
WSR01	20220503	Cloudy	Moderate	Mid-Ebb	Middle	4.2	14:10	8.5	8.4	32.8	25.5	2.4	3.0
WSR01	20220503	Cloudy	Moderate	Mid-Ebb	Middle	4.2	14:10	8.4	8.4	32.5	25.5	2.1	3.0
WSR01	20220503	Cloudy	Moderate	Mid-Ebb	Bottom	7.3	14:09	8.3	8.3	32.5	25.3	1.8	4.0
WSR01	20220503	Cloudy	Moderate	Mid-Ebb	Bottom	7.3	14:09	8.3	8.4	32.7	25.4	2.1	2.5
WSR02	20220503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	13:52	8.7	8.2	32.6	25.5	2.3	2.5
WSR02	20220503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	13:52	8.8	8.3	32.7	25.6	2.6	2.5
WSR02	20220503	Cloudy	Moderate	Mid-Ebb	Middle	4.6	13:51	8.7	8.2	32.8	25.7	2.6	2.5
WSR02	20220503	Cloudy	Moderate	Mid-Ebb	Middle	4.6	13:51	8.8	8.3	32.8	25.5	2.5	2.5
WSR02	20220503	Cloudy	Moderate	Mid-Ebb	Bottom	8.1	13:50	8.7	8.2	32.7	25.5	2.0	3.0
WSR02	20220503	Cloudy	Moderate	Mid-Ebb	Bottom	8.1	13:50	8.7	8.3	32.8	25.5	2.1	2.5
WSR03	20220503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	13:37	8.9	8.4	32.7	25.4	2.1	3.0
WSR03	20220503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	13:37	8.8	8.4	32.6	25.3	2.1	3.0
WSR03	20220503	Cloudy	Moderate	Mid-Ebb	Middle	3.8	13:36	8.9	8.4	32.3	25.3	2.3	2.5

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR03	20220503	Cloudy	Moderate	Mid-Ebb	Middle	3.8	13:36	8.7	8.4	32.7	25.2	2.0	3.0
WSR03	20220503	Cloudy	Moderate	Mid-Ebb	Bottom	6.5	13:35	9.0	8.3	32.4	25.4	2.1	2.5
WSR03	20220503	Cloudy	Moderate	Mid-Ebb	Bottom	6.5	13:35	8.9	8.4	32.6	25.3	1.8	2.5
WSR04	20220503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	13:25	9.3	8.4	33.0	25.6	2.4	3.0
WSR04	20220503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	13:25	9.3	8.4	33.0	25.6	2.6	3.0
WSR04	20220503	Cloudy	Moderate	Mid-Ebb	Middle	3.7	13:24	9.2	8.3	33.3	25.7	2.2	2.5
WSR04	20220503	Cloudy	Moderate	Mid-Ebb	Middle	3.7	13:24	9.3	8.3	33.0	25.6	2.4	3.0
WSR04	20220503	Cloudy	Moderate	Mid-Ebb	Bottom	6.4	13:23	9.2	8.4	33.0	25.5	2.0	3.0
WSR04	20220503	Cloudy	Moderate	Mid-Ebb	Bottom	6.4	13:23	9.1	8.4	33.1	25.7	2.2	3.0
WSR16	20220503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	12:22	8.4	8.3	32.3	25.8	2.7	2.5
WSR16	20220503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	12:22	8.4	8.4	32.4	25.7	2.6	3.0
WSR16	20220503	Cloudy	Moderate	Mid-Ebb	Middle	8.1	12:21	8.4	8.3	32.3	25.6	2.4	2.5
WSR16	20220503	Cloudy	Moderate	Mid-Ebb	Middle	8.1	12:21	8.4	8.4	32.2	25.7	2.1	2.5
WSR16	20220503	Cloudy	Moderate	Mid-Ebb	Bottom	15.2	12:20	8.4	8.3	32.4	25.8	2.0	6.0
WSR16	20220503	Cloudy	Moderate	Mid-Ebb	Bottom	15.2	12:20	8.2	8.4	32.3	25.6	2.0	7.0
WSR33	20220503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	13:11	8.8	8.4	32.4	25.7	2.4	3.0
WSR33	20220503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	13:11	8.8	8.3	32.3	25.6	2.3	2.5
WSR33	20220503	Cloudy	Moderate	Mid-Ebb	Middle	3.8	13:10	9.1	8.2	32.0	25.9	2.1	3.0
WSR33	20220503	Cloudy	Moderate	Mid-Ebb	Middle	3.8	13:10	8.9	8.2	32.0	25.9	2.2	3.0
WSR33	20220503	Cloudy	Moderate	Mid-Ebb	Bottom	6.5	13:09	8.9	8.3	32.2	25.7	2.1	2.5
WSR33	20220503	Cloudy	Moderate	Mid-Ebb	Bottom	6.5	13:09	9.0	8.3	32.1	25.8	2.0	2.5
WSR36	20220503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	12:56	9.2	8.3	32.7	25.6	3.2	4.0
WSR36	20220503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	12:56	9.0	8.2	32.7	25.4	2.9	2.5
WSR36	20220503	Cloudy	Moderate	Mid-Ebb	Middle	3.5	12:56	9.0	8.2	32.7	25.4	2.2	6.0
WSR36	20220503	Cloudy	Moderate	Mid-Ebb	Middle	3.5	12:56	9.2	8.3	32.6	25.7	2.3	4.0
WSR36	20220503	Cloudy	Moderate	Mid-Ebb	Bottom	6.0	12:55	9.1	8.3	32.7	25.7	2.1	2.5
WSR36	20220503	Cloudy	Moderate	Mid-Ebb	Bottom	6.0	12:55	9.0	8.3	32.6	25.5	2.4	3.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR37	20220503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	12:43	8.5	8.2	32.4	25.6	2.8	10.0
WSR37	20220503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	12:43	8.5	8.3	32.3	25.5	2.5	11.0
WSR37	20220503	Cloudy	Moderate	Mid-Ebb	Middle	4.3	12:42	8.5	8.2	32.3	25.4	2.5	2.5
WSR37	20220503	Cloudy	Moderate	Mid-Ebb	Middle	4.3	12:42	8.6	8.2	32.0	25.4	2.7	2.5
WSR37	20220503	Cloudy	Moderate	Mid-Ebb	Bottom	7.6	12:41	8.5	8.2	32.1	25.5	2.6	2.5
WSR37	20220503	Cloudy	Moderate	Mid-Ebb	Bottom	7.6	12:41	8.5	8.2	32.1	25.5	2.8	2.5
CE	20220505	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:37	9.2	8.0	33.3	25.4	4.4	3.0
CE	20220505	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:37	9.1	8.1	33.4	25.6	4.5	3.0
CE	20220505	Sunny	Moderate	Mid-Ebb	Middle	12.1	12:36	9.2	8.1	33.3	25.6	4.8	4.0
CE	20220505	Sunny	Moderate	Mid-Ebb	Middle	12.1	12:36	9.2	8.1	33.4	25.5	4.7	3.0
CE	20220505	Sunny	Moderate	Mid-Ebb	Bottom	23.1	12:35	9.1	8.1	33.4	25.5	4.8	4.0
CE	20220505	Sunny	Moderate	Mid-Ebb	Bottom	23.1	12:35	9.3	8.0	33.4	25.5	4.5	4.0
CF	20220505	Sunny	Moderate	Mid-Ebb	Surface	1.0	15:10	8.9	8.1	33.9	25.9	3.1	4.0
CF	20220505	Sunny	Moderate	Mid-Ebb	Surface	1.0	15:10	9.0	8.0	34.0	26.0	2.9	5.0
CF	20220505	Sunny	Moderate	Mid-Ebb	Middle	10.2	15:09	9.0	8.0	34.0	26.1	3.5	5.0
CF	20220505	Sunny	Moderate	Mid-Ebb	Middle	10.2	15:09	8.9	8.0	34.0	26.1	3.1	5.0
CF	20220505	Sunny	Moderate	Mid-Ebb	Bottom	19.4	15:08	9.1	8.1	34.1	25.9	3.7	5.0
CF	20220505	Sunny	Moderate	Mid-Ebb	Bottom	19.4	15:08	9.1	8.1	33.9	26.1	3.7	6.0
WSR01	20220505	Sunny	Moderate	Mid-Ebb	Surface	1.0	14:47	8.8	8.1	33.1	25.6	3.4	5.0
WSR01	20220505	Sunny	Moderate	Mid-Ebb	Surface	1.0	14:47	8.7	8.2	33.2	25.8	3.3	5.0
WSR01	20220505	Sunny	Moderate	Mid-Ebb	Middle	4.3	14:46	8.8	8.2	33.1	25.8	3.2	2.5
WSR01	20220505	Sunny	Moderate	Mid-Ebb	Middle	4.3	14:46	8.6	8.1	33.2	25.7	3.0	3.0
WSR01	20220505	Sunny	Moderate	Mid-Ebb	Bottom	7.5	14:45	8.7	8.1	33.1	25.6	2.9	5.0
WSR01	20220505	Sunny	Moderate	Mid-Ebb	Bottom	7.5	14:45	8.8	8.2	33.0	25.6	2.9	4.0
WSR02	20220505	Sunny	Moderate	Mid-Ebb	Surface	1.0	14:29	9.3	8.3	34.3	25.9	2.5	3.0
WSR02	20220505	Sunny	Moderate	Mid-Ebb	Surface	1.0	14:29	9.2	8.3	34.2	25.9	2.6	4.0
WSR02	20220505	Sunny	Moderate	Mid-Ebb	Middle	4.9	14:28	9.3	8.2	34.2	26.0	2.5	8.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR02	20220505	Sunny	Moderate	Mid-Ebb	Middle	4.9	14:28	9.1	8.3	34.3	25.8	2.3	9.0
WSR02	20220505	Sunny	Moderate	Mid-Ebb	Bottom	8.8	14:27	9.2	8.2	34.3	26.0	2.4	4.0
WSR02	20220505	Sunny	Moderate	Mid-Ebb	Bottom	8.8	14:27	9.2	8.3	34.1	25.9	2.5	4.0
WSR03	20220505	Sunny	Moderate	Mid-Ebb	Surface	1.0	14:14	8.8	8.3	33.8	25.9	3.7	6.0
WSR03	20220505	Sunny	Moderate	Mid-Ebb	Surface	1.0	14:14	8.9	8.2	33.7	26.1	3.7	7.0
WSR03	20220505	Sunny	Moderate	Mid-Ebb	Middle	4.3	14:13	8.8	8.3	33.7	26.0	3.5	10.0
WSR03	20220505	Sunny	Moderate	Mid-Ebb	Middle	4.3	14:13	9.0	8.2	33.8	26.0	3.0	7.0
WSR03	20220505	Sunny	Moderate	Mid-Ebb	Bottom	7.5	14:12	9.1	8.2	33.6	26.0	2.9	7.0
WSR03	20220505	Sunny	Moderate	Mid-Ebb	Bottom	7.5	14:12	8.8	8.3	33.8	26.0	3.1	10.0
WSR04	20220505	Sunny	Moderate	Mid-Ebb	Surface	1.0	14:02	8.6	8.2	33.8	25.7	3.9	3.0
WSR04	20220505	Sunny	Moderate	Mid-Ebb	Surface	1.0	14:02	8.5	8.3	33.7	25.8	4.0	4.0
WSR04	20220505	Sunny	Moderate	Mid-Ebb	Middle	3.5	14:01	8.6	8.2	33.7	25.8	3.7	5.0
WSR04	20220505	Sunny	Moderate	Mid-Ebb	Middle	3.5	14:01	8.4	8.3	33.9	25.6	3.2	3.0
WSR04	20220505	Sunny	Moderate	Mid-Ebb	Bottom	5.9	14:00	8.7	8.3	33.9	25.7	3.5	5.0
WSR04	20220505	Sunny	Moderate	Mid-Ebb	Bottom	5.9	14:00	8.5	8.2	33.8	25.7	3.3	3.0
WSR16	20220505	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:00	8.6	8.2	34.3	25.5	3.6	5.0
WSR16	20220505	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:00	8.8	8.2	34.2	25.7	3.3	3.0
WSR16	20220505	Sunny	Moderate	Mid-Ebb	Middle	7.8	12:59	8.6	8.2	34.2	25.7	3.4	3.0
WSR16	20220505	Sunny	Moderate	Mid-Ebb	Middle	7.8	12:59	8.6	8.2	34.2	25.7	3.4	4.0
WSR16	20220505	Sunny	Moderate	Mid-Ebb	Bottom	14.5	12:58	8.6	8.2	34.2	25.4	2.5	2.5
WSR16	20220505	Sunny	Moderate	Mid-Ebb	Bottom	14.5	12:58	8.6	8.2	34.2	25.5	2.7	2.5
WSR33	20220505	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:49	8.6	8.1	33.6	25.9	4.0	3.0
WSR33	20220505	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:49	8.6	8.2	33.5	26.1	3.6	4.0
WSR33	20220505	Sunny	Moderate	Mid-Ebb	Middle	3.7	13:48	8.4	8.2	33.6	25.9	3.6	5.0
WSR33	20220505	Sunny	Moderate	Mid-Ebb	Middle	3.7	13:48	8.5	8.1	33.7	25.9	3.5	4.0
WSR33	20220505	Sunny	Moderate	Mid-Ebb	Bottom	6.4	13:47	8.5	8.1	33.6	26.1	3.1	3.0
WSR33	20220505	Sunny	Moderate	Mid-Ebb	Bottom	6.4	13:47	8.5	8.1	33.6	26.0	3.6	4.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR36	20220505	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:35	8.0	8.0	34.2	25.4	3.5	2.5
WSR36	20220505	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:35	8.1	8.1	34.2	25.5	3.8	3.0
WSR36	20220505	Sunny	Moderate	Mid-Ebb	Middle	3.9	13:35	8.2	8.0	34.2	25.4	3.1	2.5
WSR36	20220505	Sunny	Moderate	Mid-Ebb	Middle	3.9	13:35	8.1	8.1	34.1	25.4	3.6	4.0
WSR36	20220505	Sunny	Moderate	Mid-Ebb	Bottom	6.7	13:34	8.2	8.1	34.2	25.4	3.6	4.0
WSR36	20220505	Sunny	Moderate	Mid-Ebb	Bottom	6.7	13:34	8.1	8.1	34.2	25.5	3.4	4.0
WSR37	20220505	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:22	8.1	8.2	33.8	25.9	2.9	4.0
WSR37	20220505	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:22	8.3	8.3	33.7	26.0	2.9	3.0
WSR37	20220505	Sunny	Moderate	Mid-Ebb	Middle	4.1	13:21	8.2	8.2	33.8	26.0	3.2	2.5
WSR37	20220505	Sunny	Moderate	Mid-Ebb	Middle	4.1	13:21	8.2	8.3	33.7	26.0	3.5	3.0
WSR37	20220505	Sunny	Moderate	Mid-Ebb	Bottom	7.1	13:20	8.2	8.2	33.6	25.9	3.0	8.0
WSR37	20220505	Sunny	Moderate	Mid-Ebb	Bottom	7.1	13:20	8.2	8.3	33.7	26.0	2.8	5.0
CE	20220507	Cloudy	Moderate	Mid-Ebb	Surface	1.0	14:09	8.2	8.3	33.2	24.4	3.0	5.0
CE	20220507	Cloudy	Moderate	Mid-Ebb	Surface	1.0	14:09	8.3	8.2	33.0	24.3	3.1	5.0
CE	20220507	Cloudy	Moderate	Mid-Ebb	Middle	10.6	14:08	8.4	8.3	33.1	24.1	3.1	6.0
CE	20220507	Cloudy	Moderate	Mid-Ebb	Middle	10.6	14:08	8.3	8.2	33.2	24.3	3.2	5.0
CE	20220507	Cloudy	Moderate	Mid-Ebb	Bottom	20.2	14:07	8.3	8.3	33.0	24.3	3.2	4.0
CE	20220507	Cloudy	Moderate	Mid-Ebb	Bottom	20.2	14:07	8.3	8.2	32.9	24.1	3.3	8.0
CF	20220507	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:51	8.4	8.3	32.4	24.7	2.7	6.0
CF	20220507	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:51	8.6	8.2	32.5	24.7	2.5	9.0
CF	20220507	Cloudy	Moderate	Mid-Ebb	Middle	10.0	16:50	8.4	8.3	32.4	24.6	3.0	4.0
CF	20220507	Cloudy	Moderate	Mid-Ebb	Middle	10.0	16:50	8.5	8.2	32.5	24.7	2.7	5.0
CF	20220507	Cloudy	Moderate	Mid-Ebb	Bottom	19.0	16:49	8.4	8.3	32.4	24.6	3.0	6.0
CF	20220507	Cloudy	Moderate	Mid-Ebb	Bottom	19.0	16:49	8.3	8.3	32.5	24.9	2.9	3.0
WSR01	20220507	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:27	9.0	8.4	33.0	24.8	2.6	7.0
WSR01	20220507	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:27	9.2	8.4	33.2	25.0	3.0	4.0
WSR01	20220507	Cloudy	Moderate	Mid-Ebb	Middle	4.5	16:26	9.2	8.3	33.2	24.8	2.6	4.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR01	20220507	Cloudy	Moderate	Mid-Ebb	Middle	4.5	16:26	9.2	8.3	33.3	24.8	2.6	6.0
WSR01	20220507	Cloudy	Moderate	Mid-Ebb	Bottom	7.9	16:25	9.2	8.4	33.1	24.8	2.5	4.0
WSR01	20220507	Cloudy	Moderate	Mid-Ebb	Bottom	7.9	16:25	9.2	8.4	33.1	24.7	2.7	3.0
WSR02	20220507	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:08	8.6	8.3	33.0	25.0	2.1	4.0
WSR02	20220507	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:08	8.7	8.2	33.3	25.1	2.2	2.5
WSR02	20220507	Cloudy	Moderate	Mid-Ebb	Middle	4.6	16:07	8.7	8.2	33.1	24.9	2.4	3.0
WSR02	20220507	Cloudy	Moderate	Mid-Ebb	Middle	4.6	16:07	8.8	8.3	33.1	25.1	2.4	3.0
WSR02	20220507	Cloudy	Moderate	Mid-Ebb	Bottom	8.1	16:06	8.8	8.2	33.0	24.9	2.3	2.5
WSR02	20220507	Cloudy	Moderate	Mid-Ebb	Bottom	8.1	16:06	8.5	8.3	33.1	25.0	2.4	3.0
WSR03	20220507	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:52	8.6	8.1	33.0	24.4	3.0	5.0
WSR03	20220507	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:52	8.7	8.0	33.1	24.5	3.2	5.0
WSR03	20220507	Cloudy	Moderate	Mid-Ebb	Middle	3.9	15:51	8.7	8.0	33.0	24.5	2.5	4.0
WSR03	20220507	Cloudy	Moderate	Mid-Ebb	Middle	3.9	15:51	8.6	8.1	33.1	24.3	2.5	4.0
WSR03	20220507	Cloudy	Moderate	Mid-Ebb	Bottom	6.8	15:50	8.5	8.1	33.2	24.4	2.1	5.0
WSR03	20220507	Cloudy	Moderate	Mid-Ebb	Bottom	6.8	15:50	8.6	8.1	33.0	24.3	2.1	7.0
WSR04	20220507	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:39	8.9	8.1	32.5	25.1	2.9	4.0
WSR04	20220507	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:39	8.9	8.3	32.6	24.8	3.0	2.5
WSR04	20220507	Cloudy	Moderate	Mid-Ebb	Middle	3.6	15:38	9.0	8.2	32.5	25.0	3.0	4.0
WSR04	20220507	Cloudy	Moderate	Mid-Ebb	Middle	3.6	15:38	8.9	8.2	32.7	25.1	2.6	5.0
WSR04	20220507	Cloudy	Moderate	Mid-Ebb	Bottom	6.1	15:37	8.9	8.2	32.7	25.0	2.5	4.0
WSR04	20220507	Cloudy	Moderate	Mid-Ebb	Bottom	6.1	15:37	9.0	8.2	32.7	24.9	2.8	8.0
WSR16	20220507	Cloudy	Moderate	Mid-Ebb	Surface	1.0	14:32	8.6	8.3	32.7	24.2	2.9	6.0
WSR16	20220507	Cloudy	Moderate	Mid-Ebb	Surface	1.0	14:32	8.6	8.2	33.0	24.2	2.9	5.0
WSR16	20220507	Cloudy	Moderate	Mid-Ebb	Middle	8.3	14:31	8.8	8.3	32.9	24.3	2.7	4.0
WSR16	20220507	Cloudy	Moderate	Mid-Ebb	Middle	8.3	14:31	8.6	8.2	32.7	24.3	3.0	6.0
WSR16	20220507	Cloudy	Moderate	Mid-Ebb	Bottom	15.5	14:30	8.8	8.2	32.8	24.2	2.4	4.0
WSR16	20220507	Cloudy	Moderate	Mid-Ebb	Bottom	15.5	14:30	8.7	8.2	32.9	24.3	2.5	4.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR33	20220507	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:23	8.3	8.3	32.6	24.3	2.4	4.0
WSR33	20220507	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:23	8.3	8.2	32.6	24.5	2.8	3.0
WSR33	20220507	Cloudy	Moderate	Mid-Ebb	Middle	3.5	15:22	8.2	8.2	32.4	24.6	2.4	2.5
WSR33	20220507	Cloudy	Moderate	Mid-Ebb	Middle	3.5	15:22	8.2	8.2	32.5	24.5	2.6	4.0
WSR33	20220507	Cloudy	Moderate	Mid-Ebb	Bottom	6.0	15:21	8.4	8.3	32.5	24.5	2.4	4.0
WSR33	20220507	Cloudy	Moderate	Mid-Ebb	Bottom	6.0	15:21	8.4	8.3	32.6	24.4	2.4	5.0
WSR36	20220507	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:08	8.6	8.1	32.4	24.6	2.8	4.0
WSR36	20220507	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:08	8.7	8.1	32.4	24.8	3.1	2.5
WSR36	20220507	Cloudy	Moderate	Mid-Ebb	Middle	3.6	15:08	8.8	8.0	32.3	24.6	2.3	5.0
WSR36	20220507	Cloudy	Moderate	Mid-Ebb	Middle	3.6	15:08	8.8	8.0	32.4	24.7	2.5	3.0
WSR36	20220507	Cloudy	Moderate	Mid-Ebb	Bottom	6.1	15:07	8.8	8.1	32.4	24.7	2.2	4.0
WSR36	20220507	Cloudy	Moderate	Mid-Ebb	Bottom	6.1	15:07	8.8	8.1	32.4	24.8	2.2	5.0
WSR37	20220507	Cloudy	Moderate	Mid-Ebb	Surface	1.0	14:54	8.5	8.2	32.1	24.3	2.6	3.0
WSR37	20220507	Cloudy	Moderate	Mid-Ebb	Surface	1.0	14:54	8.7	8.2	32.1	24.3	2.8	4.0
WSR37	20220507	Cloudy	Moderate	Mid-Ebb	Middle	4.2	14:53	8.5	8.3	32.0	24.2	2.1	4.0
WSR37	20220507	Cloudy	Moderate	Mid-Ebb	Middle	4.2	14:53	8.5	8.2	32.2	24.3	2.4	3.0
WSR37	20220507	Cloudy	Moderate	Mid-Ebb	Bottom	7.3	14:52	8.5	8.2	32.1	24.3	2.1	3.0
WSR37	20220507	Cloudy	Moderate	Mid-Ebb	Bottom	7.3	14:52	8.7	8.3	32.2	24.4	2.2	3.0
CE	20220510	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:11	8.3	8.1	32.4	24.5	3.5	4.0
CE	20220510	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:11	8.3	8.1	32.2	24.3	3.3	2.5
CE	20220510	Cloudy	Moderate	Mid-Ebb	Middle	11.1	16:10	8.2	8.1	32.2	24.6	3.4	3.0
CE	20220510	Cloudy	Moderate	Mid-Ebb	Middle	11.1	16:10	8.2	8.1	32.2	24.4	3.5	2.5
CE	20220510	Cloudy	Moderate	Mid-Ebb	Bottom	21.1	16:09	8.3	8.1	32.2	24.5	3.8	4.0
CE	20220510	Cloudy	Moderate	Mid-Ebb	Bottom	21.1	16:09	8.3	8.1	32.4	24.5	3.7	6.0
CF	20220510	Cloudy	Moderate	Mid-Ebb	Surface	1.0	18:47	8.9	8.2	32.5	24.4	3.0	2.5
CF	20220510	Cloudy	Moderate	Mid-Ebb	Surface	1.0	18:47	8.9	8.3	32.4	24.5	3.0	2.5
CF	20220510	Cloudy	Moderate	Mid-Ebb	Middle	10.1	18:46	8.8	8.2	32.7	24.5	2.9	3.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
CF	20220510	Cloudy	Moderate	Mid-Ebb	Middle	10.1	18:46	8.8	8.3	32.7	24.5	2.9	6.0
CF	20220510	Cloudy	Moderate	Mid-Ebb	Bottom	19.1	18:45	8.8	8.3	32.6	24.3	2.9	6.0
CF	20220510	Cloudy	Moderate	Mid-Ebb	Bottom	19.1	18:45	8.9	8.3	32.5	24.4	3.0	3.0
WSR01	20220510	Cloudy	Moderate	Mid-Ebb	Surface	1.0	18:23	8.5	8.3	32.6	23.9	2.4	2.5
WSR01	20220510	Cloudy	Moderate	Mid-Ebb	Surface	1.0	18:23	8.6	8.2	32.6	24.0	2.5	2.5
WSR01	20220510	Cloudy	Moderate	Mid-Ebb	Middle	4.5	18:22	8.7	8.3	32.6	24.0	2.0	3.0
WSR01	20220510	Cloudy	Moderate	Mid-Ebb	Middle	4.5	18:22	8.7	8.2	32.8	23.9	1.9	3.0
WSR01	20220510	Cloudy	Moderate	Mid-Ebb	Bottom	7.9	18:21	8.7	8.3	32.5	23.9	2.4	3.0
WSR01	20220510	Cloudy	Moderate	Mid-Ebb	Bottom	7.9	18:21	8.7	8.3	32.5	24.2	2.1	5.0
WSR02	20220510	Cloudy	Moderate	Mid-Ebb	Surface	1.0	18:05	8.1	8.1	32.1	24.8	2.2	3.0
WSR02	20220510	Cloudy	Moderate	Mid-Ebb	Surface	1.0	18:05	8.0	8.1	32.2	24.6	2.3	2.5
WSR02	20220510	Cloudy	Moderate	Mid-Ebb	Middle	5.0	18:04	7.9	8.1	32.3	24.9	2.1	2.5
WSR02	20220510	Cloudy	Moderate	Mid-Ebb	Middle	5.0	18:04	8.0	8.1	32.3	24.9	2.0	2.5
WSR02	20220510	Cloudy	Moderate	Mid-Ebb	Bottom	8.9	18:03	8.1	8.1	32.1	24.8	2.1	4.0
WSR02	20220510	Cloudy	Moderate	Mid-Ebb	Bottom	8.9	18:03	8.0	8.1	32.2	24.7	2.1	3.0
WSR03	20220510	Cloudy	Moderate	Mid-Ebb	Surface	1.0	17:50	8.2	8.3	32.1	24.0	2.6	4.0
WSR03	20220510	Cloudy	Moderate	Mid-Ebb	Surface	1.0	17:50	8.2	8.2	32.1	23.8	2.4	4.0
WSR03	20220510	Cloudy	Moderate	Mid-Ebb	Middle	4.0	17:49	8.2	8.2	32.3	23.9	2.0	3.0
WSR03	20220510	Cloudy	Moderate	Mid-Ebb	Middle	4.0	17:49	8.3	8.3	32.3	24.1	2.2	3.0
WSR03	20220510	Cloudy	Moderate	Mid-Ebb	Bottom	7.0	17:48	8.1	8.3	32.1	23.9	2.0	2.5
WSR03	20220510	Cloudy	Moderate	Mid-Ebb	Bottom	7.0	17:48	8.3	8.3	32.1	24.1	2.0	3.0
WSR04	20220510	Cloudy	Moderate	Mid-Ebb	Surface	1.0	17:38	8.4	8.3	32.8	24.4	2.3	2.5
WSR04	20220510	Cloudy	Moderate	Mid-Ebb	Surface	1.0	17:38	8.4	8.3	32.8	24.5	2.2	4.0
WSR04	20220510	Cloudy	Moderate	Mid-Ebb	Middle	3.4	17:37	8.4	8.2	33.0	24.5	2.3	4.0
WSR04	20220510	Cloudy	Moderate	Mid-Ebb	Middle	3.4	17:37	8.4	8.3	32.9	24.4	2.3	7.0
WSR04	20220510	Cloudy	Moderate	Mid-Ebb	Bottom	5.8	17:36	8.5	8.3	33.0	24.6	2.3	3.0
WSR04	20220510	Cloudy	Moderate	Mid-Ebb	Bottom	5.8	17:36	8.6	8.3	33.0	24.6	2.0	3.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR16	20220510	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:34	8.0	8.3	32.6	24.7	2.9	3.0
WSR16	20220510	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:34	8.2	8.2	32.7	24.5	2.9	4.0
WSR16	20220510	Cloudy	Moderate	Mid-Ebb	Middle	8.3	16:33	8.2	8.2	32.8	24.7	2.2	4.0
WSR16	20220510	Cloudy	Moderate	Mid-Ebb	Middle	8.3	16:33	8.0	8.3	32.6	24.7	2.0	2.5
WSR16	20220510	Cloudy	Moderate	Mid-Ebb	Bottom	15.5	16:32	8.1	8.2	32.5	24.5	2.3	3.0
WSR16	20220510	Cloudy	Moderate	Mid-Ebb	Bottom	15.5	16:32	8.2	8.3	32.7	24.5	2.5	2.5
WSR33	20220510	Cloudy	Moderate	Mid-Ebb	Surface	1.0	17:24	8.7	8.2	32.4	24.1	3.0	2.5
WSR33	20220510	Cloudy	Moderate	Mid-Ebb	Surface	1.0	17:24	8.8	8.3	32.1	23.9	2.9	3.0
WSR33	20220510	Cloudy	Moderate	Mid-Ebb	Middle	3.7	17:23	8.7	8.3	32.1	23.9	2.7	5.0
WSR33	20220510	Cloudy	Moderate	Mid-Ebb	Middle	3.7	17:23	8.6	8.3	32.1	24.1	2.5	3.0
WSR33	20220510	Cloudy	Moderate	Mid-Ebb	Bottom	6.4	17:22	8.8	8.3	32.2	24.1	2.4	3.0
WSR33	20220510	Cloudy	Moderate	Mid-Ebb	Bottom	6.4	17:22	8.8	8.3	32.4	24.1	2.3	3.0
WSR36	20220510	Cloudy	Moderate	Mid-Ebb	Surface	1.0	17:10	8.7	8.3	32.2	24.5	2.7	4.0
WSR36	20220510	Cloudy	Moderate	Mid-Ebb	Surface	1.0	17:10	8.6	8.3	32.4	24.5	2.8	5.0
WSR36	20220510	Cloudy	Moderate	Mid-Ebb	Middle	3.5	17:10	8.7	8.3	32.3	24.4	2.4	2.5
WSR36	20220510	Cloudy	Moderate	Mid-Ebb	Middle	3.5	17:10	8.6	8.3	32.4	24.4	2.3	2.5
WSR36	20220510	Cloudy	Moderate	Mid-Ebb	Bottom	6.0	17:09	8.5	8.3	32.3	24.5	2.0	2.5
WSR36	20220510	Cloudy	Moderate	Mid-Ebb	Bottom	6.0	17:09	8.6	8.3	32.2	24.7	2.2	3.0
WSR37	20220510	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:34	8.1	8.3	32.7	24.6	2.8	5.0
WSR37	20220510	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:34	8.1	8.3	32.8	24.7	2.3	3.0
WSR37	20220510	Cloudy	Moderate	Mid-Ebb	Middle	4.0	16:33	8.0	8.3	32.7	24.6	2.6	2.5
WSR37	20220510	Cloudy	Moderate	Mid-Ebb	Middle	4.0	16:33	8.1	8.3	32.5	24.6	2.9	2.5
WSR37	20220510	Cloudy	Moderate	Mid-Ebb	Bottom	6.9	16:32	8.1	8.3	32.5	24.7	1.9	3.0
WSR37	20220510	Cloudy	Moderate	Mid-Ebb	Bottom	6.9	16:32	8.0	8.3	32.5	24.5	1.9	5.0
CE	20220512	Cloudy	Moderate	Mid-Ebb	Surface	1.0	8:06	9.2	8.2	31.5	25.1	3.8	4.0
CE	20220512	Cloudy	Moderate	Mid-Ebb	Surface	1.0	8:06	9.1	8.2	31.5	25.1	3.8	6.0
CE	20220512	Cloudy	Moderate	Mid-Ebb	Middle	10.5	8:05	9.2	8.1	31.4	25.2	3.8	2.5

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
CE	20220512	Cloudy	Moderate	Mid-Ebb	Middle	10.5	8:05	9.2	8.1	31.5	25.0	3.9	3.0
CE	20220512	Cloudy	Moderate	Mid-Ebb	Bottom	19.9	8:04	9.1	8.3	31.5	25.0	4.3	2.5
CE	20220512	Cloudy	Moderate	Mid-Ebb	Bottom	19.9	8:04	9.0	8.1	31.3	24.9	4.0	2.5
CF	20220512	Cloudy	Moderate	Mid-Ebb	Surface	1.0	10:42	9.8	8.3	31.0	24.7	3.2	9.0
CF	20220512	Cloudy	Moderate	Mid-Ebb	Surface	1.0	10:42	9.7	8.3	31.0	24.5	3.0	9.0
CF	20220512	Cloudy	Moderate	Mid-Ebb	Middle	10.3	10:41	9.7	8.3	31.2	24.6	3.3	6.0
CF	20220512	Cloudy	Moderate	Mid-Ebb	Middle	10.3	10:41	9.7	8.3	31.2	24.7	3.0	5.0
CF	20220512	Cloudy	Moderate	Mid-Ebb	Bottom	19.6	10:40	9.9	8.2	31.2	24.6	3.0	8.0
CF	20220512	Cloudy	Moderate	Mid-Ebb	Bottom	19.6	10:40	9.8	8.2	31.0	24.8	3.2	7.0
WSR01	20220512	Cloudy	Moderate	Mid-Ebb	Surface	1.0	10:20	9.2	8.4	31.0	24.8	3.4	4.0
WSR01	20220512	Cloudy	Moderate	Mid-Ebb	Surface	1.0	10:20	9.2	8.4	31.1	24.8	3.1	4.0
WSR01	20220512	Cloudy	Moderate	Mid-Ebb	Middle	4.5	10:19	9.3	8.4	31.1	24.7	2.7	2.5
WSR01	20220512	Cloudy	Moderate	Mid-Ebb	Middle	4.5	10:19	9.2	8.3	31.0	24.9	3.1	2.5
WSR01	20220512	Cloudy	Moderate	Mid-Ebb	Bottom	7.9	10:18	9.4	8.3	30.9	24.7	3.1	3.0
WSR01	20220512	Cloudy	Moderate	Mid-Ebb	Bottom	7.9	10:18	9.2	8.3	31.1	24.7	3.0	5.0
WSR02	20220512	Cloudy	Moderate	Mid-Ebb	Surface	1.0	10:02	9.2	8.2	30.9	25.3	2.1	2.5
WSR02	20220512	Cloudy	Moderate	Mid-Ebb	Surface	1.0	10:02	9.0	8.2	30.8	25.4	2.2	4.0
WSR02	20220512	Cloudy	Moderate	Mid-Ebb	Middle	4.6	10:01	9.0	8.2	31.1	25.2	2.0	3.0
WSR02	20220512	Cloudy	Moderate	Mid-Ebb	Middle	4.6	10:01	9.1	8.3	31.0	25.4	2.2	4.0
WSR02	20220512	Cloudy	Moderate	Mid-Ebb	Bottom	8.2	10:00	9.0	8.2	31.0	25.2	2.3	7.0
WSR02	20220512	Cloudy	Moderate	Mid-Ebb	Bottom	8.2	10:00	9.1	8.3	31.0	25.1	2.3	8.0
WSR03	20220512	Cloudy	Moderate	Mid-Ebb	Surface	1.0	9:46	9.7	8.2	31.5	25.2	1.9	3.0
WSR03	20220512	Cloudy	Moderate	Mid-Ebb	Surface	1.0	9:46	9.4	8.2	31.6	25.2	1.6	5.0
WSR03	20220512	Cloudy	Moderate	Mid-Ebb	Middle	4.2	9:45	9.7	8.2	31.6	25.1	1.8	7.0
WSR03	20220512	Cloudy	Moderate	Mid-Ebb	Middle	4.2	9:45	9.8	8.1	31.6	25.1	1.9	8.0
WSR03	20220512	Cloudy	Moderate	Mid-Ebb	Bottom	7.4	9:44	9.7	8.1	31.6	25.1	1.6	5.0
WSR03	20220512	Cloudy	Moderate	Mid-Ebb	Bottom	7.4	9:44	9.7	8.2	31.5	25.2	1.9	4.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR04	20220512	Cloudy	Moderate	Mid-Ebb	Surface	1.0	9:33	9.7	8.3	30.9	25.3	2.2	2.5
WSR04	20220512	Cloudy	Moderate	Mid-Ebb	Surface	1.0	9:33	9.6	8.3	31.0	25.1	2.5	2.5
WSR04	20220512	Cloudy	Moderate	Mid-Ebb	Middle	3.8	9:32	9.6	8.4	30.9	25.2	1.9	5.0
WSR04	20220512	Cloudy	Moderate	Mid-Ebb	Middle	3.8	9:32	9.9	8.3	31.2	25.2	2.1	5.0
WSR04	20220512	Cloudy	Moderate	Mid-Ebb	Bottom	6.6	9:31	9.6	8.4	31.0	25.1	1.9	8.0
WSR04	20220512	Cloudy	Moderate	Mid-Ebb	Bottom	6.6	9:31	9.7	8.3	31.0	25.0	2.2	9.0
WSR16	20220512	Cloudy	Moderate	Mid-Ebb	Surface	1.0	8:29	9.0	8.2	32.0	24.6	2.3	10.0
WSR16	20220512	Cloudy	Moderate	Mid-Ebb	Surface	1.0	8:29	9.3	8.2	31.9	24.8	2.1	11.0
WSR16	20220512	Cloudy	Moderate	Mid-Ebb	Middle	7.9	8:28	9.0	8.1	32.2	24.7	2.2	7.0
WSR16	20220512	Cloudy	Moderate	Mid-Ebb	Middle	7.9	8:28	9.0	8.1	32.1	24.6	2.1	9.0
WSR16	20220512	Cloudy	Moderate	Mid-Ebb	Bottom	14.7	8:27	9.2	8.1	32.0	24.6	2.1	3.0
WSR16	20220512	Cloudy	Moderate	Mid-Ebb	Bottom	14.7	8:27	9.0	8.2	32.1	24.7	2.1	2.5
WSR33	20220512	Cloudy	Moderate	Mid-Ebb	Surface	1.0	9:19	9.4	8.3	32.1	24.8	1.8	6.0
WSR33	20220512	Cloudy	Moderate	Mid-Ebb	Surface	1.0	9:19	9.5	8.4	32.1	25.0	2.1	5.0
WSR33	20220512	Cloudy	Moderate	Mid-Ebb	Middle	3.6	9:18	9.4	8.4	32.0	24.8	2.4	2.5
WSR33	20220512	Cloudy	Moderate	Mid-Ebb	Middle	3.6	9:18	9.4	8.4	32.0	25.0	2.2	2.5
WSR33	20220512	Cloudy	Moderate	Mid-Ebb	Bottom	6.2	9:17	9.6	8.3	31.9	24.8	1.8	30.0
WSR33	20220512	Cloudy	Moderate	Mid-Ebb	Bottom	6.2	9:17	9.3	8.4	32.1	25.0	2.1	27.0
WSR36	20220512	Cloudy	Moderate	Mid-Ebb	Surface	1.0	9:03	9.4	8.2	31.7	24.7	2.3	8.0
WSR36	20220512	Cloudy	Moderate	Mid-Ebb	Surface	1.0	9:03	9.1	8.3	31.9	24.5	2.3	8.0
WSR36	20220512	Cloudy	Moderate	Mid-Ebb	Middle	3.5	9:03	9.3	8.3	31.9	24.7	1.9	2.5
WSR36	20220512	Cloudy	Moderate	Mid-Ebb	Middle	3.5	9:03	9.1	8.3	31.8	24.5	1.7	2.5
WSR36	20220512	Cloudy	Moderate	Mid-Ebb	Bottom	6.0	9:02	9.4	8.3	31.8	24.8	2.0	2.5
WSR36	20220512	Cloudy	Moderate	Mid-Ebb	Bottom	6.0	9:02	9.3	8.3	31.8	24.7	1.9	2.5
WSR37	20220512	Cloudy	Moderate	Mid-Ebb	Surface	1.0	8:50	9.2	8.1	31.2	25.5	2.9	5.0
WSR37	20220512	Cloudy	Moderate	Mid-Ebb	Surface	1.0	8:50	9.5	8.1	31.2	25.3	2.8	9.0
WSR37	20220512	Cloudy	Moderate	Mid-Ebb	Middle	3.9	8:49	9.2	8.2	31.3	25.4	2.4	4.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR37	20220512	Cloudy	Moderate	Mid-Ebb	Middle	3.9	8:49	9.3	8.1	31.2	25.2	2.4	3.0
WSR37	20220512	Cloudy	Moderate	Mid-Ebb	Bottom	6.7	8:48	9.5	8.2	31.3	25.3	2.0	8.0
WSR37	20220512	Cloudy	Moderate	Mid-Ebb	Bottom	6.7	8:48	9.4	8.1	31.3	25.5	2.2	5.0
CE	20220514	Cloudy	Moderate	Mid-Ebb	Surface	1.0	9:15	8.8	8.1	32.9	25.4	3.5	3.0
CE	20220514	Cloudy	Moderate	Mid-Ebb	Surface	1.0	9:15	8.7	8.1	32.9	25.4	3.6	4.0
CE	20220514	Cloudy	Moderate	Mid-Ebb	Middle	11.8	9:14	8.7	8.2	33.0	25.5	4.1	2.5
CE	20220514	Cloudy	Moderate	Mid-Ebb	Middle	11.8	9:14	8.8	8.1	32.8	25.5	4.3	2.5
CE	20220514	Cloudy	Moderate	Mid-Ebb	Bottom	22.5	9:13	8.8	8.2	32.9	25.5	3.7	2.5
CE	20220514	Cloudy	Moderate	Mid-Ebb	Bottom	22.5	9:13	8.8	8.1	32.8	25.6	3.8	2.5
CF	20220514	Cloudy	Moderate	Mid-Ebb	Surface	1.0	11:52	8.3	8.3	33.7	25.5	3.2	2.5
CF	20220514	Cloudy	Moderate	Mid-Ebb	Surface	1.0	11:52	8.4	8.2	33.8	25.4	3.3	2.5
CF	20220514	Cloudy	Moderate	Mid-Ebb	Middle	9.7	11:51	8.4	8.2	33.8	25.4	3.5	2.5
CF	20220514	Cloudy	Moderate	Mid-Ebb	Middle	9.7	11:51	8.3	8.2	33.7	25.4	3.5	2.5
CF	20220514	Cloudy	Moderate	Mid-Ebb	Bottom	18.3	11:50	8.4	8.2	33.6	25.3	3.3	2.5
CF	20220514	Cloudy	Moderate	Mid-Ebb	Bottom	18.3	11:50	8.3	8.3	33.8	25.4	3.3	2.5
WSR01	20220514	Cloudy	Moderate	Mid-Ebb	Surface	1.0	11:29	8.5	8.3	33.0	25.7	2.7	3.0
WSR01	20220514	Cloudy	Moderate	Mid-Ebb	Surface	1.0	11:29	8.6	8.2	33.1	25.7	2.7	4.0
WSR01	20220514	Cloudy	Moderate	Mid-Ebb	Middle	4.5	11:28	8.7	8.2	32.9	25.6	2.3	2.5
WSR01	20220514	Cloudy	Moderate	Mid-Ebb	Middle	4.5	11:28	8.6	8.3	33.1	25.6	2.0	4.0
WSR01	20220514	Cloudy	Moderate	Mid-Ebb	Bottom	8.0	11:27	8.6	8.2	33.1	25.8	2.2	2.5
WSR01	20220514	Cloudy	Moderate	Mid-Ebb	Bottom	8.0	11:27	8.6	8.2	32.9	25.6	2.0	2.5
WSR02	20220514	Cloudy	Moderate	Mid-Ebb	Surface	1.0	11:10	9.0	8.1	33.1	25.3	2.2	2.5
WSR02	20220514	Cloudy	Moderate	Mid-Ebb	Surface	1.0	11:10	9.0	8.1	33.2	25.4	1.9	3.0
WSR02	20220514	Cloudy	Moderate	Mid-Ebb	Middle	4.5	11:09	9.0	8.1	33.2	25.4	2.2	2.5
WSR02	20220514	Cloudy	Moderate	Mid-Ebb	Middle	4.5	11:09	9.0	8.1	33.2	25.3	1.9	2.5
WSR02	20220514	Cloudy	Moderate	Mid-Ebb	Bottom	8.0	11:08	9.0	8.1	33.2	25.4	1.9	2.5
WSR02	20220514	Cloudy	Moderate	Mid-Ebb	Bottom	8.0	11:08	9.0	8.1	33.1	25.5	1.9	2.5

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR03	20220514	Cloudy	Moderate	Mid-Ebb	Surface	1.0	10:55	9.2	8.1	33.3	25.9	2.2	2.5
WSR03	20220514	Cloudy	Moderate	Mid-Ebb	Surface	1.0	10:55	9.1	8.0	33.2	25.9	2.1	2.5
WSR03	20220514	Cloudy	Moderate	Mid-Ebb	Middle	3.8	10:54	9.1	8.1	33.2	25.8	2.1	2.5
WSR03	20220514	Cloudy	Moderate	Mid-Ebb	Middle	3.8	10:54	9.2	8.0	33.3	25.8	2.4	3.0
WSR03	20220514	Cloudy	Moderate	Mid-Ebb	Bottom	6.5	10:53	9.1	8.0	33.3	25.8	2.1	2.5
WSR03	20220514	Cloudy	Moderate	Mid-Ebb	Bottom	6.5	10:53	9.0	8.1	33.3	25.8	1.9	2.5
WSR04	20220514	Cloudy	Moderate	Mid-Ebb	Surface	1.0	10:42	9.1	8.2	32.7	25.6	3.1	2.5
WSR04	20220514	Cloudy	Moderate	Mid-Ebb	Surface	1.0	10:42	9.0	8.1	32.7	25.7	2.8	2.5
WSR04	20220514	Cloudy	Moderate	Mid-Ebb	Middle	3.8	10:41	9.0	8.2	32.6	25.7	2.4	2.5
WSR04	20220514	Cloudy	Moderate	Mid-Ebb	Middle	3.8	10:41	9.0	8.2	32.7	25.7	2.8	2.5
WSR04	20220514	Cloudy	Moderate	Mid-Ebb	Bottom	6.6	10:40	9.0	8.1	32.6	25.6	2.0	2.5
WSR04	20220514	Cloudy	Moderate	Mid-Ebb	Bottom	6.6	10:40	8.9	8.1	32.8	25.7	2.0	3.0
WSR16	20220514	Cloudy	Moderate	Mid-Ebb	Surface	1.0	9:37	8.4	8.3	33.4	25.2	3.0	2.5
WSR16	20220514	Cloudy	Moderate	Mid-Ebb	Surface	1.0	9:37	8.3	8.2	33.4	25.3	2.6	2.5
WSR16	20220514	Cloudy	Moderate	Mid-Ebb	Middle	8.2	9:36	8.3	8.3	33.4	25.2	2.5	3.0
WSR16	20220514	Cloudy	Moderate	Mid-Ebb	Middle	8.2	9:36	8.3	8.2	33.4	25.2	2.5	3.0
WSR16	20220514	Cloudy	Moderate	Mid-Ebb	Bottom	15.3	9:35	8.4	8.2	33.3	25.2	2.3	3.0
WSR16	20220514	Cloudy	Moderate	Mid-Ebb	Bottom	15.3	9:35	8.4	8.2	33.3	25.2	2.5	4.0
WSR33	20220514	Cloudy	Moderate	Mid-Ebb	Surface	1.0	10:27	8.2	8.0	33.3	25.9	2.5	2.5
WSR33	20220514	Cloudy	Moderate	Mid-Ebb	Surface	1.0	10:27	8.2	8.1	33.2	25.8	2.4	2.5
WSR33	20220514	Cloudy	Moderate	Mid-Ebb	Middle	3.9	10:26	8.2	8.1	33.2	25.8	2.6	3.0
WSR33	20220514	Cloudy	Moderate	Mid-Ebb	Middle	3.9	10:26	8.2	8.1	33.4	25.8	2.4	2.5
WSR33	20220514	Cloudy	Moderate	Mid-Ebb	Bottom	6.7	10:25	8.3	8.0	33.3	25.8	2.0	2.5
WSR33	20220514	Cloudy	Moderate	Mid-Ebb	Bottom	6.7	10:25	8.3	8.1	33.2	25.9	2.2	2.5
WSR36	20220514	Cloudy	Moderate	Mid-Ebb	Surface	1.0	10:13	8.8	8.1	33.7	25.4	3.0	2.5
WSR36	20220514	Cloudy	Moderate	Mid-Ebb	Surface	1.0	10:13	8.6	8.1	33.7	25.3	2.9	3.0
WSR36	20220514	Cloudy	Moderate	Mid-Ebb	Middle	3.9	10:13	8.8	8.1	33.7	25.5	2.5	3.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR36	20220514	Cloudy	Moderate	Mid-Ebb	Middle	3.9	10:13	8.7	8.0	33.8	25.5	2.6	3.0
WSR36	20220514	Cloudy	Moderate	Mid-Ebb	Bottom	6.7	10:12	8.7	8.0	33.8	25.3	2.5	2.5
WSR36	20220514	Cloudy	Moderate	Mid-Ebb	Bottom	6.7	10:12	8.6	8.0	33.7	25.4	2.5	2.5
WSR37	20220514	Cloudy	Moderate	Mid-Ebb	Surface	1.0	9:59	8.2	8.1	33.4	25.6	2.9	2.5
WSR37	20220514	Cloudy	Moderate	Mid-Ebb	Surface	1.0	9:59	8.2	8.1	33.4	25.6	2.9	3.0
WSR37	20220514	Cloudy	Moderate	Mid-Ebb	Middle	4.2	9:58	8.0	8.1	33.4	25.4	3.1	2.5
WSR37	20220514	Cloudy	Moderate	Mid-Ebb	Middle	4.2	9:58	8.0	8.0	33.4	25.6	3.3	4.0
WSR37	20220514	Cloudy	Moderate	Mid-Ebb	Bottom	7.3	9:57	8.0	8.1	33.5	25.6	3.1	2.5
WSR37	20220514	Cloudy	Moderate	Mid-Ebb	Bottom	7.3	9:57	8.2	8.1	33.4	25.4	2.8	3.0
CE	20220517	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:15	9.1	8.2	33.0	26.3	4.6	4.0
CE	20220517	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:15	9.1	8.1	33.2	26.3	4.4	4.0
CE	20220517	Sunny	Moderate	Mid-Ebb	Middle	11.5	11:14	9.1	8.1	33.2	26.3	4.7	3.0
CE	20220517	Sunny	Moderate	Mid-Ebb	Middle	11.5	11:14	9.1	8.2	33.2	26.1	4.7	4.0
CE	20220517	Sunny	Moderate	Mid-Ebb	Bottom	21.9	11:13	9.1	8.2	33.1	26.1	5.0	3.0
CE	20220517	Sunny	Moderate	Mid-Ebb	Bottom	21.9	11:13	9.2	8.1	33.2	26.2	4.9	2.5
CF	20220517	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:50	9.9	8.2	32.3	25.9	3.7	3.0
CF	20220517	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:50	9.9	8.3	32.2	25.9	3.6	3.0
CF	20220517	Sunny	Moderate	Mid-Ebb	Middle	10.7	13:49	9.9	8.2	32.3	25.9	3.8	5.0
CF	20220517	Sunny	Moderate	Mid-Ebb	Middle	10.7	13:49	10.0	8.2	32.2	26.0	3.7	5.0
CF	20220517	Sunny	Moderate	Mid-Ebb	Bottom	20.3	13:48	9.9	8.2	32.2	25.8	4.1	5.0
CF	20220517	Sunny	Moderate	Mid-Ebb	Bottom	20.3	13:48	9.8	8.3	32.3	25.8	3.9	3.0
WSR01	20220517	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:27	9.7	8.2	32.7	26.5	4.0	5.0
WSR01	20220517	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:27	9.6	8.2	32.5	26.5	4.1	3.0
WSR01	20220517	Sunny	Moderate	Mid-Ebb	Middle	4.5	13:26	9.6	8.2	32.7	26.4	3.2	3.0
WSR01	20220517	Sunny	Moderate	Mid-Ebb	Middle	4.5	13:26	9.7	8.3	32.7	26.3	3.5	3.0
WSR01	20220517	Sunny	Moderate	Mid-Ebb	Bottom	8.0	13:25	9.7	8.2	32.7	26.5	2.7	3.0
WSR01	20220517	Sunny	Moderate	Mid-Ebb	Bottom	8.0	13:25	9.6	8.2	32.6	26.4	3.0	2.5

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR02	20220517	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:08	9.4	8.2	33.1	25.9	3.7	4.0
WSR02	20220517	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:08	9.3	8.3	33.3	26.1	3.9	2.5
WSR02	20220517	Sunny	Moderate	Mid-Ebb	Middle	5.0	13:07	9.5	8.2	33.1	26.0	3.9	2.5
WSR02	20220517	Sunny	Moderate	Mid-Ebb	Middle	5.0	13:07	9.4	8.3	33.1	25.9	3.4	2.5
WSR02	20220517	Sunny	Moderate	Mid-Ebb	Bottom	8.9	13:06	9.3	8.3	33.2	26.0	3.1	3.0
WSR02	20220517	Sunny	Moderate	Mid-Ebb	Bottom	8.9	13:06	9.3	8.2	33.2	26.0	3.0	3.0
WSR03	20220517	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:53	9.2	8.1	32.2	26.1	3.7	2.5
WSR03	20220517	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:53	9.3	8.2	32.2	26.0	4.0	4.0
WSR03	20220517	Sunny	Moderate	Mid-Ebb	Middle	4.1	12:52	9.3	8.3	32.2	26.0	3.6	5.0
WSR03	20220517	Sunny	Moderate	Mid-Ebb	Middle	4.1	12:52	9.2	8.2	32.4	26.1	3.4	3.0
WSR03	20220517	Sunny	Moderate	Mid-Ebb	Bottom	7.1	12:51	9.1	8.2	32.3	26.1	2.9	2.5
WSR03	20220517	Sunny	Moderate	Mid-Ebb	Bottom	7.1	12:51	9.3	8.2	32.3	26.1	3.2	2.5
WSR04	20220517	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:41	9.3	8.2	33.2	26.0	3.9	2.5
WSR04	20220517	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:41	9.4	8.2	33.2	25.9	3.8	3.0
WSR04	20220517	Sunny	Moderate	Mid-Ebb	Middle	3.7	12:40	9.4	8.2	33.3	25.9	3.7	4.0
WSR04	20220517	Sunny	Moderate	Mid-Ebb	Middle	3.7	12:40	9.3	8.3	33.3	25.8	3.7	2.5
WSR04	20220517	Sunny	Moderate	Mid-Ebb	Bottom	6.4	12:39	9.3	8.2	33.4	26.0	3.2	3.0
WSR04	20220517	Sunny	Moderate	Mid-Ebb	Bottom	6.4	12:39	9.4	8.2	33.2	26.0	3.1	2.5
WSR16	20220517	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:37	9.3	8.3	33.2	26.2	3.6	5.0
WSR16	20220517	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:37	9.5	8.2	33.1	26.2	3.4	4.0
WSR16	20220517	Sunny	Moderate	Mid-Ebb	Middle	8.0	11:36	9.4	8.2	33.2	26.2	3.2	3.0
WSR16	20220517	Sunny	Moderate	Mid-Ebb	Middle	8.0	11:36	9.5	8.3	33.1	26.2	3.6	2.5
WSR16	20220517	Sunny	Moderate	Mid-Ebb	Bottom	14.9	11:35	9.4	8.3	33.0	26.1	3.2	2.5
WSR16	20220517	Sunny	Moderate	Mid-Ebb	Bottom	14.9	11:35	9.5	8.3	33.2	26.1	3.2	3.0
WSR33	20220517	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:27	8.9	8.1	32.9	26.3	3.1	4.0
WSR33	20220517	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:27	8.9	8.1	32.8	26.4	3.4	4.0
WSR33	20220517	Sunny	Moderate	Mid-Ebb	Middle	3.8	12:26	8.8	8.2	32.8	26.3	3.2	3.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR33	20220517	Sunny	Moderate	Mid-Ebb	Middle	3.8	12:26	8.8	8.1	32.9	26.4	2.9	5.0
WSR33	20220517	Sunny	Moderate	Mid-Ebb	Bottom	6.6	12:25	8.7	8.2	32.9	26.4	3.0	5.0
WSR33	20220517	Sunny	Moderate	Mid-Ebb	Bottom	6.6	12:25	8.7	8.2	32.8	26.4	2.6	8.0
WSR36	20220517	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:13	8.6	8.2	32.6	26.4	3.0	4.0
WSR36	20220517	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:13	8.6	8.2	32.7	26.4	3.4	4.0
WSR36	20220517	Sunny	Moderate	Mid-Ebb	Middle	3.7	12:13	8.5	8.3	32.7	26.5	3.0	3.0
WSR36	20220517	Sunny	Moderate	Mid-Ebb	Middle	3.7	12:13	8.6	8.1	32.5	26.5	3.2	5.0
WSR36	20220517	Sunny	Moderate	Mid-Ebb	Bottom	6.3	12:12	8.6	8.2	32.7	26.3	2.8	3.0
WSR36	20220517	Sunny	Moderate	Mid-Ebb	Bottom	6.3	12:12	8.5	8.3	32.7	26.4	3.0	5.0
WSR37	20220517	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:59	8.9	8.2	32.2	26.2	3.3	4.0
WSR37	20220517	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:59	9.0	8.3	32.2	26.2	3.0	3.0
WSR37	20220517	Sunny	Moderate	Mid-Ebb	Middle	4.3	11:58	9.0	8.2	32.3	26.2	2.5	5.0
WSR37	20220517	Sunny	Moderate	Mid-Ebb	Middle	4.3	11:58	8.9	8.3	32.3	26.3	2.6	6.0
WSR37	20220517	Sunny	Moderate	Mid-Ebb	Bottom	7.5	11:57	9.0	8.3	32.3	26.2	2.5	6.0
WSR37	20220517	Sunny	Moderate	Mid-Ebb	Bottom	7.5	11:57	9.0	8.2	32.3	26.3	2.1	5.0
CE	20220519	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:49	9.6	8.2	30.8	26.0	3.6	4.0
CE	20220519	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:49	9.3	8.2	30.6	25.9	3.8	2.5
CE	20220519	Sunny	Moderate	Mid-Ebb	Middle	10.5	12:48	9.5	8.2	30.7	26.1	3.8	5.0
CE	20220519	Sunny	Moderate	Mid-Ebb	Middle	10.5	12:48	9.3	8.2	30.8	25.9	3.7	4.0
CE	20220519	Sunny	Moderate	Mid-Ebb	Bottom	20.0	12:47	9.3	8.2	30.7	25.9	4.2	8.0
CE	20220519	Sunny	Moderate	Mid-Ebb	Bottom	20.0	12:47	9.3	8.2	30.6	26.0	4.1	7.0
CF	20220519	Sunny	Moderate	Mid-Ebb	Surface	1.0	15:29	8.9	8.2	30.8	26.5	3.1	6.0
CF	20220519	Sunny	Moderate	Mid-Ebb	Surface	1.0	15:29	8.9	8.2	30.8	26.5	2.9	9.0
CF	20220519	Sunny	Moderate	Mid-Ebb	Middle	9.9	15:28	9.0	8.2	30.9	26.5	3.4	9.0
CF	20220519	Sunny	Moderate	Mid-Ebb	Middle	9.9	15:28	9.0	8.2	30.9	26.6	3.1	8.0
CF	20220519	Sunny	Moderate	Mid-Ebb	Bottom	18.7	15:27	8.9	8.3	31.1	26.6	3.1	7.0
CF	20220519	Sunny	Moderate	Mid-Ebb	Bottom	18.7	15:27	9.0	8.2	30.9	26.5	3.1	6.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR01	20220519	Sunny	Moderate	Mid-Ebb	Surface	1.0	15:06	9.1	8.1	30.5	26.2	2.5	4.0
WSR01	20220519	Sunny	Moderate	Mid-Ebb	Surface	1.0	15:06	9.0	8.0	30.6	26.3	2.8	4.0
WSR01	20220519	Sunny	Moderate	Mid-Ebb	Middle	4.7	15:05	9.2	8.1	30.4	26.2	2.5	6.0
WSR01	20220519	Sunny	Moderate	Mid-Ebb	Middle	4.7	15:05	9.1	8.1	30.4	26.3	2.4	7.0
WSR01	20220519	Sunny	Moderate	Mid-Ebb	Bottom	8.4	15:04	9.1	8.1	30.4	26.2	2.2	7.0
WSR01	20220519	Sunny	Moderate	Mid-Ebb	Bottom	8.4	15:04	9.2	8.1	30.4	26.2	2.3	6.0
WSR02	20220519	Sunny	Moderate	Mid-Ebb	Surface	1.0	14:47	8.8	8.1	31.1	26.2	2.2	5.0
WSR02	20220519	Sunny	Moderate	Mid-Ebb	Surface	1.0	14:47	8.8	8.1	30.8	26.2	2.0	6.0
WSR02	20220519	Sunny	Moderate	Mid-Ebb	Middle	4.6	14:46	8.6	8.1	31.0	26.2	1.9	4.0
WSR02	20220519	Sunny	Moderate	Mid-Ebb	Middle	4.6	14:46	8.6	8.1	31.0	26.1	2.0	3.0
WSR02	20220519	Sunny	Moderate	Mid-Ebb	Bottom	8.2	14:45	8.7	8.1	30.9	26.2	2.2	3.0
WSR02	20220519	Sunny	Moderate	Mid-Ebb	Bottom	8.2	14:45	8.7	8.1	30.8	26.1	2.0	4.0
WSR03	20220519	Sunny	Moderate	Mid-Ebb	Surface	1.0	14:30	8.7	8.2	30.9	26.4	3.3	3.0
WSR03	20220519	Sunny	Moderate	Mid-Ebb	Surface	1.0	14:30	8.7	8.2	30.9	26.3	3.0	2.5
WSR03	20220519	Sunny	Moderate	Mid-Ebb	Middle	3.8	14:29	8.8	8.1	30.6	26.3	3.0	2.5
WSR03	20220519	Sunny	Moderate	Mid-Ebb	Middle	3.8	14:29	8.9	8.2	30.6	26.3	3.1	3.0
WSR03	20220519	Sunny	Moderate	Mid-Ebb	Bottom	6.6	14:28	8.9	8.2	30.7	26.4	2.9	2.5
WSR03	20220519	Sunny	Moderate	Mid-Ebb	Bottom	6.6	14:28	8.8	8.1	30.6	26.3	2.4	2.5
WSR04	20220519	Sunny	Moderate	Mid-Ebb	Surface	1.0	14:17	8.4	8.0	30.5	26.4	3.1	3.0
WSR04	20220519	Sunny	Moderate	Mid-Ebb	Surface	1.0	14:17	8.6	8.0	30.8	26.3	2.7	4.0
WSR04	20220519	Sunny	Moderate	Mid-Ebb	Middle	3.4	14:16	8.6	8.0	30.8	26.4	2.7	4.0
WSR04	20220519	Sunny	Moderate	Mid-Ebb	Middle	3.4	14:16	8.6	8.0	30.7	26.3	2.5	3.0
WSR04	20220519	Sunny	Moderate	Mid-Ebb	Bottom	5.8	14:15	8.5	8.0	30.8	26.4	2.3	2.5
WSR04	20220519	Sunny	Moderate	Mid-Ebb	Bottom	5.8	14:15	8.4	8.1	30.7	26.4	2.3	4.0
WSR16	20220519	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:12	9.2	8.0	30.6	26.0	2.7	4.0
WSR16	20220519	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:12	9.4	8.1	30.8	25.9	2.3	6.0
WSR16	20220519	Sunny	Moderate	Mid-Ebb	Middle	8.0	13:11	9.3	8.0	30.7	26.0	2.6	4.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR16	20220519	Sunny	Moderate	Mid-Ebb	Middle	8.0	13:11	9.3	8.1	30.7	26.0	2.4	6.0
WSR16	20220519	Sunny	Moderate	Mid-Ebb	Bottom	15.0	13:10	9.2	8.0	30.5	25.9	2.4	3.0
WSR16	20220519	Sunny	Moderate	Mid-Ebb	Bottom	15.0	13:10	9.3	8.1	30.7	25.9	2.4	4.0
WSR33	20220519	Sunny	Moderate	Mid-Ebb	Surface	1.0	14:02	8.5	8.0	30.9	26.6	3.2	3.0
WSR33	20220519	Sunny	Moderate	Mid-Ebb	Surface	1.0	14:02	8.4	8.0	31.0	26.6	3.4	2.5
WSR33	20220519	Sunny	Moderate	Mid-Ebb	Middle	3.9	14:01	8.6	8.0	30.9	26.6	2.8	2.5
WSR33	20220519	Sunny	Moderate	Mid-Ebb	Middle	3.9	14:01	8.6	8.0	30.9	26.5	3.1	3.0
WSR33	20220519	Sunny	Moderate	Mid-Ebb	Bottom	6.7	14:00	8.4	8.0	30.8	26.6	2.6	2.5
WSR33	20220519	Sunny	Moderate	Mid-Ebb	Bottom	6.7	14:00	8.4	8.0	31.0	26.6	3.0	3.0
WSR36	20220519	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:46	9.1	8.0	30.4	26.6	2.3	3.0
WSR36	20220519	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:46	8.9	8.0	30.2	26.6	2.6	4.0
WSR36	20220519	Sunny	Moderate	Mid-Ebb	Middle	3.2	13:46	8.9	8.0	30.4	26.6	2.7	3.0
WSR36	20220519	Sunny	Moderate	Mid-Ebb	Middle	3.2	13:46	9.0	8.0	30.3	26.5	2.9	4.0
WSR36	20220519	Sunny	Moderate	Mid-Ebb	Bottom	5.4	13:45	8.8	8.0	30.5	26.5	2.3	3.0
WSR36	20220519	Sunny	Moderate	Mid-Ebb	Bottom	5.4	13:45	8.8	8.0	30.4	26.7	2.4	4.0
WSR37	20220519	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:34	9.5	8.3	30.8	26.0	2.8	3.0
WSR37	20220519	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:34	9.4	8.2	30.6	25.9	3.0	2.5
WSR37	20220519	Sunny	Moderate	Mid-Ebb	Middle	3.9	13:33	9.3	8.3	30.6	25.9	2.6	4.0
WSR37	20220519	Sunny	Moderate	Mid-Ebb	Middle	3.9	13:33	9.6	8.3	30.9	25.9	2.6	3.0
WSR37	20220519	Sunny	Moderate	Mid-Ebb	Bottom	6.8	13:32	9.5	8.3	30.9	25.9	2.4	2.5
WSR37	20220519	Sunny	Moderate	Mid-Ebb	Bottom	6.8	13:32	9.4	8.3	30.8	26.0	2.4	3.0
CE	20220521	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:02	8.8	8.1	33.1	24.6	3.8	4.0
CE	20220521	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:02	8.8	8.2	33.2	25.2	3.8	3.0
CE	20220521	Cloudy	Moderate	Mid-Ebb	Middle	11.2	15:01	8.9	8.2	32.9	24.8	4.0	3.0
CE	20220521	Cloudy	Moderate	Mid-Ebb	Middle	11.2	15:01	9.1	8.2	33.0	25.0	3.9	3.0
CE	20220521	Cloudy	Moderate	Mid-Ebb	Bottom	21.4	15:00	8.9	8.2	33.2	24.6	4.2	2.5
CE	20220521	Cloudy	Moderate	Mid-Ebb	Bottom	21.4	15:00	9.1	8.2	32.9	25.5	4.1	3.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
CF	20220521	Cloudy	Moderate	Mid-Ebb	Surface	1.0	17:35	9.0	8.2	33.4	25.7	3.3	3.0
CF	20220521	Cloudy	Moderate	Mid-Ebb	Surface	1.0	17:35	8.8	8.2	33.5	25.3	3.7	3.0
CF	20220521	Cloudy	Moderate	Mid-Ebb	Middle	9.8	17:34	8.8	8.2	33.4	25.6	3.6	4.0
CF	20220521	Cloudy	Moderate	Mid-Ebb	Middle	9.8	17:34	8.8	8.3	33.4	25.8	3.7	4.0
CF	20220521	Cloudy	Moderate	Mid-Ebb	Bottom	18.6	17:33	8.9	8.2	33.4	24.8	3.6	2.5
CF	20220521	Cloudy	Moderate	Mid-Ebb	Bottom	18.6	17:33	8.9	8.2	33.6	24.5	3.4	2.5
WSR01	20220521	Cloudy	Moderate	Mid-Ebb	Surface	1.0	17:12	9.2	8.0	33.5	24.9	2.9	3.0
WSR01	20220521	Cloudy	Moderate	Mid-Ebb	Surface	1.0	17:12	9.3	8.0	33.6	25.5	2.6	3.0
WSR01	20220521	Cloudy	Moderate	Mid-Ebb	Middle	4.4	17:11	9.3	8.0	33.5	25.6	3.1	2.5
WSR01	20220521	Cloudy	Moderate	Mid-Ebb	Middle	4.4	17:11	9.1	8.1	33.5	25.9	2.6	2.5
WSR01	20220521	Cloudy	Moderate	Mid-Ebb	Bottom	7.7	17:10	9.3	8.1	33.4	24.7	3.0	5.0
WSR01	20220521	Cloudy	Moderate	Mid-Ebb	Bottom	7.7	17:10	9.4	8.1	33.6	25.2	2.6	5.0
WSR02	20220521	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:53	8.9	8.0	32.7	25.2	2.1	6.0
WSR02	20220521	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:53	8.8	8.1	32.7	25.1	2.3	6.0
WSR02	20220521	Cloudy	Moderate	Mid-Ebb	Middle	4.7	16:52	8.7	8.0	32.9	25.2	2.1	3.0
WSR02	20220521	Cloudy	Moderate	Mid-Ebb	Middle	4.7	16:52	8.8	8.0	32.9	25.8	2.2	3.0
WSR02	20220521	Cloudy	Moderate	Mid-Ebb	Bottom	8.3	16:51	8.7	8.0	32.7	25.6	2.5	2.5
WSR02	20220521	Cloudy	Moderate	Mid-Ebb	Bottom	8.3	16:51	8.7	8.0	32.9	25.6	2.2	4.0
WSR03	20220521	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:39	9.1	8.2	33.4	25.4	2.7	2.5
WSR03	20220521	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:39	8.8	8.2	33.5	24.6	2.5	2.5
WSR03	20220521	Cloudy	Moderate	Mid-Ebb	Middle	4.0	16:38	9.0	8.2	33.5	25.3	2.5	2.5
WSR03	20220521	Cloudy	Moderate	Mid-Ebb	Middle	4.0	16:38	8.8	8.2	33.4	25.2	2.4	2.5
WSR03	20220521	Cloudy	Moderate	Mid-Ebb	Bottom	7.0	16:37	9.0	8.2	33.3	25.5	2.3	2.5
WSR03	20220521	Cloudy	Moderate	Mid-Ebb	Bottom	7.0	16:37	8.8	8.2	33.4	24.6	2.5	2.5
WSR04	20220521	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:28	9.5	8.2	33.1	24.6	3.3	3.0
WSR04	20220521	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:28	9.4	8.2	33.0	25.4	2.9	2.5
WSR04	20220521	Cloudy	Moderate	Mid-Ebb	Middle	3.9	16:27	9.3	8.2	33.0	25.2	2.9	3.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR04	20220521	Cloudy	Moderate	Mid-Ebb	Middle	3.9	16:27	9.6	8.2	32.9	24.7	3.1	3.0
WSR04	20220521	Cloudy	Moderate	Mid-Ebb	Bottom	6.8	16:26	9.3	8.2	33.2	25.4	2.5	5.0
WSR04	20220521	Cloudy	Moderate	Mid-Ebb	Bottom	6.8	16:26	9.5	8.2	33.0	25.8	2.6	3.0
WSR16	20220521	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:24	8.7	8.1	33.7	25.1	2.9	3.0
WSR16	20220521	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:24	8.9	8.0	33.6	24.8	2.9	3.0
WSR16	20220521	Cloudy	Moderate	Mid-Ebb	Middle	7.9	15:23	9.0	8.0	33.6	25.6	2.7	3.0
WSR16	20220521	Cloudy	Moderate	Mid-Ebb	Middle	7.9	15:23	9.0	8.0	33.7	25.8	2.9	4.0
WSR16	20220521	Cloudy	Moderate	Mid-Ebb	Bottom	14.7	15:22	8.9	8.0	33.6	25.9	2.9	3.0
WSR16	20220521	Cloudy	Moderate	Mid-Ebb	Bottom	14.7	15:22	8.9	8.1	33.8	25.4	2.5	2.5
WSR33	20220521	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:14	9.3	8.2	33.3	25.0	3.1	2.5
WSR33	20220521	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:14	9.3	8.1	33.2	25.1	2.8	3.0
WSR33	20220521	Cloudy	Moderate	Mid-Ebb	Middle	3.8	16:13	9.4	8.2	33.2	24.9	3.3	2.5
WSR33	20220521	Cloudy	Moderate	Mid-Ebb	Middle	3.8	16:13	9.2	8.1	33.3	25.6	2.8	3.0
WSR33	20220521	Cloudy	Moderate	Mid-Ebb	Bottom	6.5	16:12	9.3	8.2	33.0	25.2	2.7	2.5
WSR33	20220521	Cloudy	Moderate	Mid-Ebb	Bottom	6.5	16:12	9.3	8.1	33.3	25.4	2.8	2.5
WSR36	20220521	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:59	9.3	8.2	32.7	25.5	3.5	2.5
WSR36	20220521	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:59	9.2	8.2	32.6	25.8	3.8	2.5
WSR36	20220521	Cloudy	Moderate	Mid-Ebb	Middle	3.2	15:59	9.1	8.2	32.7	25.1	3.4	2.5
WSR36	20220521	Cloudy	Moderate	Mid-Ebb	Middle	3.2	15:59	9.2	8.2	32.5	24.7	2.9	3.0
WSR36	20220521	Cloudy	Moderate	Mid-Ebb	Bottom	5.3	15:58	9.1	8.3	32.7	25.7	3.1	3.0
WSR36	20220521	Cloudy	Moderate	Mid-Ebb	Bottom	5.3	15:58	9.1	8.2	32.5	25.2	3.0	3.0
WSR37	20220521	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:45	9.4	8.1	33.1	24.9	3.0	3.0
WSR37	20220521	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:45	9.3	8.1	33.1	25.5	3.3	3.0
WSR37	20220521	Cloudy	Moderate	Mid-Ebb	Middle	4.3	15:44	9.3	8.2	33.2	24.7	2.7	2.5
WSR37	20220521	Cloudy	Moderate	Mid-Ebb	Middle	4.3	15:44	9.2	8.2	33.3	24.7	3.2	2.5
WSR37	20220521	Cloudy	Moderate	Mid-Ebb	Bottom	7.6	15:43	9.4	8.2	33.1	25.1	2.7	2.5
WSR37	20220521	Cloudy	Moderate	Mid-Ebb	Bottom	7.6	15:43	9.4	8.1	33.0	25.2	3.2	3.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
CE	20220524	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:56	8.9	8.1	33.2	25.1	3.5	3.0
CE	20220524	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:56	9.2	8.1	33.0	24.8	3.3	4.0
CE	20220524	Cloudy	Moderate	Mid-Ebb	Middle	12.1	16:55	9.2	8.2	33.1	24.8	3.7	4.0
CE	20220524	Cloudy	Moderate	Mid-Ebb	Middle	12.1	16:55	9.0	8.1	33.0	25.0	3.6	5.0
CE	20220524	Cloudy	Moderate	Mid-Ebb	Bottom	23.1	16:54	8.9	8.2	33.2	24.8	3.9	4.0
CE	20220524	Cloudy	Moderate	Mid-Ebb	Bottom	23.1	16:54	8.8	8.1	33.0	25.0	3.7	2.5
CF	20220524	Cloudy	Moderate	Mid-Ebb	Surface	1.0	19:35	9.9	8.3	32.5	25.1	2.7	3.0
CF	20220524	Cloudy	Moderate	Mid-Ebb	Surface	1.0	19:35	10.1	8.3	32.5	25.0	3.1	4.0
CF	20220524	Cloudy	Moderate	Mid-Ebb	Middle	10.0	19:34	10.1	8.3	32.6	25.0	3.0	2.5
CF	20220524	Cloudy	Moderate	Mid-Ebb	Middle	10.0	19:34	9.8	8.3	32.6	24.9	2.9	4.0
CF	20220524	Cloudy	Moderate	Mid-Ebb	Bottom	18.9	19:33	9.8	8.3	32.6	24.9	3.1	6.0
CF	20220524	Cloudy	Moderate	Mid-Ebb	Bottom	18.9	19:33	9.9	8.2	32.6	24.9	3.0	5.0
WSR01	20220524	Cloudy	Moderate	Mid-Ebb	Surface	1.0	19:11	9.7	8.1	32.3	25.0	2.9	6.0
WSR01	20220524	Cloudy	Moderate	Mid-Ebb	Surface	1.0	19:11	9.9	8.2	32.4	24.9	2.5	4.0
WSR01	20220524	Cloudy	Moderate	Mid-Ebb	Middle	4.2	19:10	9.9	8.1	32.3	25.2	2.3	4.0
WSR01	20220524	Cloudy	Moderate	Mid-Ebb	Middle	4.2	19:10	9.8	8.1	32.3	25.2	2.4	4.0
WSR01	20220524	Cloudy	Moderate	Mid-Ebb	Bottom	7.4	19:09	9.7	8.1	32.2	25.0	2.3	5.0
WSR01	20220524	Cloudy	Moderate	Mid-Ebb	Bottom	7.4	19:09	9.8	8.1	32.3	25.2	2.5	3.0
WSR02	20220524	Cloudy	Moderate	Mid-Ebb	Surface	1.0	18:52	9.1	8.2	32.8	24.7	2.6	6.0
WSR02	20220524	Cloudy	Moderate	Mid-Ebb	Surface	1.0	18:52	9.2	8.2	33.0	24.8	2.5	5.0
WSR02	20220524	Cloudy	Moderate	Mid-Ebb	Middle	4.6	18:51	9.1	8.2	32.8	24.8	3.0	4.0
WSR02	20220524	Cloudy	Moderate	Mid-Ebb	Middle	4.6	18:51	9.2	8.2	32.8	24.9	2.5	2.5
WSR02	20220524	Cloudy	Moderate	Mid-Ebb	Bottom	8.1	18:50	8.9	8.2	32.8	24.8	2.3	3.0
WSR02	20220524	Cloudy	Moderate	Mid-Ebb	Bottom	8.1	18:50	9.1	8.2	32.8	24.9	2.6	2.5
WSR03	20220524	Cloudy	Moderate	Mid-Ebb	Surface	1.0	18:36	9.4	8.1	32.8	25.4	2.8	3.0
WSR03	20220524	Cloudy	Moderate	Mid-Ebb	Surface	1.0	18:36	9.2	8.1	32.8	25.3	2.5	4.0
WSR03	20220524	Cloudy	Moderate	Mid-Ebb	Middle	4.1	18:35	9.3	8.2	32.7	25.3	2.3	2.5
WSR03	20220524	Cloudy	Moderate	Mid-Ebb	Middle	4.1	18:35	9.3	8.2	32.7	25.1	2.6	3.0
WSR03	20220524	Cloudy	Moderate	Mid-Ebb	Bottom	7.1	18:34	9.4	8.1	32.7	25.3	2.2	2.5
WSR03	20220524	Cloudy	Moderate	Mid-Ebb	Bottom	7.1	18:34	9.3	8.1	32.7	25.4	2.3	4.0
WSR04	20220524	Cloudy	Moderate	Mid-Ebb	Surface	1.0	18:24	9.7	8.2	32.3	25.5	2.4	2.5
WSR04	20220524	Cloudy	Moderate	Mid-Ebb	Surface	1.0	18:24	9.6	8.2	32.3	25.4	2.6	3.0
WSR04	20220524	Cloudy	Moderate	Mid-Ebb	Middle	3.4	18:23	9.8	8.1	32.4	25.4	2.4	5.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR04	20220524	Cloudy	Moderate	Mid-Ebb	Middle	3.4	18:23	10.0	8.1	32.5	25.4	2.4	3.0
WSR04	20220524	Cloudy	Moderate	Mid-Ebb	Bottom	5.7	18:22	9.8	8.2	32.4	25.6	2.3	4.0
WSR04	20220524	Cloudy	Moderate	Mid-Ebb	Bottom	5.7	18:22	9.8	8.1	32.4	25.5	2.5	2.5
WSR16	20220524	Cloudy	Moderate	Mid-Ebb	Surface	1.0	17:18	9.6	8.1	32.5	25.1	3.1	2.5
WSR16	20220524	Cloudy	Moderate	Mid-Ebb	Surface	1.0	17:18	9.8	8.1	32.4	25.2	3.0	4.0
WSR16	20220524	Cloudy	Moderate	Mid-Ebb	Middle	7.9	17:17	9.6	8.1	32.5	25.3	2.6	4.0
WSR16	20220524	Cloudy	Moderate	Mid-Ebb	Middle	7.9	17:17	9.8	8.2	32.5	25.2	3.0	3.0
WSR16	20220524	Cloudy	Moderate	Mid-Ebb	Bottom	14.7	17:16	9.6	8.1	32.4	25.4	2.7	3.0
WSR16	20220524	Cloudy	Moderate	Mid-Ebb	Bottom	14.7	17:16	9.9	8.1	32.4	25.4	2.6	3.0
WSR33	20220524	Cloudy	Moderate	Mid-Ebb	Surface	1.0	18:09	9.6	8.1	32.2	24.9	2.7	3.0
WSR33	20220524	Cloudy	Moderate	Mid-Ebb	Surface	1.0	18:09	9.7	8.1	32.2	24.9	2.7	4.0
WSR33	20220524	Cloudy	Moderate	Mid-Ebb	Middle	3.5	18:08	9.5	8.2	32.1	24.9	2.3	3.0
WSR33	20220524	Cloudy	Moderate	Mid-Ebb	Middle	3.5	18:08	9.5	8.2	32.1	25.2	2.5	3.0
WSR33	20220524	Cloudy	Moderate	Mid-Ebb	Bottom	6.0	18:07	9.4	8.2	32.0	25.1	2.2	3.0
WSR33	20220524	Cloudy	Moderate	Mid-Ebb	Bottom	6.0	18:07	9.5	8.1	32.2	25.0	2.4	3.0
WSR36	20220524	Cloudy	Moderate	Mid-Ebb	Surface	1.0	17:54	9.5	8.1	33.2	25.3	3.0	4.0
WSR36	20220524	Cloudy	Moderate	Mid-Ebb	Surface	1.0	17:54	9.4	8.2	33.2	25.3	2.8	4.0
WSR36	20220524	Cloudy	Moderate	Mid-Ebb	Middle	3.7	17:54	9.2	8.1	33.2	25.2	3.2	6.0
WSR36	20220524	Cloudy	Moderate	Mid-Ebb	Middle	3.7	17:54	9.1	8.1	33.0	25.4	2.8	3.0
WSR36	20220524	Cloudy	Moderate	Mid-Ebb	Bottom	6.3	17:53	9.2	8.2	33.2	25.4	2.4	6.0
WSR36	20220524	Cloudy	Moderate	Mid-Ebb	Bottom	6.3	17:53	9.5	8.1	33.0	25.5	2.4	4.0
WSR37	20220524	Cloudy	Moderate	Mid-Ebb	Surface	1.0	17:40	9.7	8.2	32.8	25.4	2.5	5.0
WSR37	20220524	Cloudy	Moderate	Mid-Ebb	Surface	1.0	17:40	9.8	8.1	33.0	25.5	2.8	4.0
WSR37	20220524	Cloudy	Moderate	Mid-Ebb	Middle	3.8	17:39	9.5	8.2	33.0	25.4	2.6	7.0
WSR37	20220524	Cloudy	Moderate	Mid-Ebb	Middle	3.8	17:39	9.4	8.1	32.9	25.6	2.3	5.0
WSR37	20220524	Cloudy	Moderate	Mid-Ebb	Bottom	6.6	17:38	9.7	8.1	33.0	25.6	2.7	2.5
WSR37	20220524	Cloudy	Moderate	Mid-Ebb	Bottom	6.6	17:38	9.5	8.1	32.9	25.6	2.6	4.0
CE	20220526	Cloudy	Moderate	Mid-Ebb	Surface	1.0	8:12	8.3	8.3	32.2	25.2	4.2	5.0
CE	20220526	Cloudy	Moderate	Mid-Ebb	Surface	1.0	8:12	8.4	8.3	32.2	25.2	4.0	7.0
CE	20220526	Cloudy	Moderate	Mid-Ebb	Middle	10.3	8:11	8.3	8.3	32.1	25.3	4.4	4.0
CE	20220526	Cloudy	Moderate	Mid-Ebb	Middle	10.3	8:11	8.2	8.3	32.1	25.2	4.4	3.0
CE	20220526	Cloudy	Moderate	Mid-Ebb	Bottom	19.6	8:10	8.3	8.3	32.2	25.1	4.7	5.0
CE	20220526	Cloudy	Moderate	Mid-Ebb	Bottom	19.6	8:10	8.3	8.3	32.2	25.2	4.5	6.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
CF	20220526	Cloudy	Moderate	Mid-Ebb	Surface	1.0	10:47	8.9	8.3	32.8	25.3	3.2	5.0
CF	20220526	Cloudy	Moderate	Mid-Ebb	Surface	1.0	10:47	8.7	8.2	32.9	25.4	3.2	6.0
CF	20220526	Cloudy	Moderate	Mid-Ebb	Middle	10.6	10:46	8.7	8.3	32.9	25.3	3.6	7.0
CF	20220526	Cloudy	Moderate	Mid-Ebb	Middle	10.6	10:46	9.0	8.2	32.8	25.3	3.5	10.0
CF	20220526	Cloudy	Moderate	Mid-Ebb	Bottom	20.2	10:45	8.8	8.2	33.0	25.1	3.8	8.0
CF	20220526	Cloudy	Moderate	Mid-Ebb	Bottom	20.2	10:45	8.8	8.2	32.9	25.1	3.8	8.0
WSR01	20220526	Cloudy	Moderate	Mid-Ebb	Surface	1.0	10:24	8.7	8.3	32.8	25.2	3.3	7.0
WSR01	20220526	Cloudy	Moderate	Mid-Ebb	Surface	1.0	10:24	8.7	8.3	32.9	25.2	3.1	7.0
WSR01	20220526	Cloudy	Moderate	Mid-Ebb	Middle	4.7	10:23	8.7	8.3	32.9	25.3	3.1	7.0
WSR01	20220526	Cloudy	Moderate	Mid-Ebb	Middle	4.7	10:23	8.9	8.3	32.8	25.2	2.7	9.0
WSR01	20220526	Cloudy	Moderate	Mid-Ebb	Bottom	8.4	10:22	8.9	8.3	33.0	25.3	2.7	7.0
WSR01	20220526	Cloudy	Moderate	Mid-Ebb	Bottom	8.4	10:22	8.7	8.3	32.9	25.3	2.6	8.0
WSR02	20220526	Cloudy	Moderate	Mid-Ebb	Surface	1.0	10:06	8.5	8.2	32.5	25.4	2.5	8.0
WSR02	20220526	Cloudy	Moderate	Mid-Ebb	Surface	1.0	10:06	8.5	8.2	32.5	25.3	2.6	8.0
WSR02	20220526	Cloudy	Moderate	Mid-Ebb	Middle	4.9	10:05	8.4	8.2	32.5	25.5	2.4	4.0
WSR02	20220526	Cloudy	Moderate	Mid-Ebb	Middle	4.9	10:05	8.6	8.2	32.6	25.4	2.3	4.0
WSR02	20220526	Cloudy	Moderate	Mid-Ebb	Bottom	8.8	10:04	8.5	8.2	32.5	25.6	2.3	3.0
WSR02	20220526	Cloudy	Moderate	Mid-Ebb	Bottom	8.8	10:04	8.4	8.2	32.4	25.5	2.3	2.5
WSR03	20220526	Cloudy	Moderate	Mid-Ebb	Surface	1.0	9:51	8.5	8.3	32.7	25.4	2.9	4.0
WSR03	20220526	Cloudy	Moderate	Mid-Ebb	Surface	1.0	9:51	8.3	8.3	32.8	25.5	2.9	5.0
WSR03	20220526	Cloudy	Moderate	Mid-Ebb	Middle	3.8	9:50	8.2	8.3	32.8	25.4	3.0	5.0
WSR03	20220526	Cloudy	Moderate	Mid-Ebb	Middle	3.8	9:50	8.4	8.3	32.8	25.5	3.3	3.0
WSR03	20220526	Cloudy	Moderate	Mid-Ebb	Bottom	6.5	9:49	8.4	8.3	32.7	25.5	2.7	3.0
WSR03	20220526	Cloudy	Moderate	Mid-Ebb	Bottom	6.5	9:49	8.4	8.3	32.6	25.4	2.9	4.0
WSR04	20220526	Cloudy	Moderate	Mid-Ebb	Surface	1.0	9:39	8.5	8.3	32.2	25.8	3.0	4.0
WSR04	20220526	Cloudy	Moderate	Mid-Ebb	Surface	1.0	9:39	8.5	8.2	32.2	26.0	3.4	4.0
WSR04	20220526	Cloudy	Moderate	Mid-Ebb	Middle	3.7	9:38	8.6	8.3	32.2	26.0	3.2	2.5
WSR04	20220526	Cloudy	Moderate	Mid-Ebb	Middle	3.7	9:38	8.6	8.2	32.1	25.9	3.0	3.0
WSR04	20220526	Cloudy	Moderate	Mid-Ebb	Bottom	6.4	9:37	8.6	8.3	32.1	26.0	2.8	3.0
WSR04	20220526	Cloudy	Moderate	Mid-Ebb	Bottom	6.4	9:37	8.6	8.3	32.0	26.0	2.8	4.0
WSR16	20220526	Cloudy	Moderate	Mid-Ebb	Surface	1.0	8:35	8.3	8.3	32.2	25.5	3.2	4.0
WSR16	20220526	Cloudy	Moderate	Mid-Ebb	Surface	1.0	8:35	8.4	8.3	32.1	25.6	3.2	5.0
WSR16	20220526	Cloudy	Moderate	Mid-Ebb	Middle	8.1	8:34	8.3	8.3	32.1	25.4	2.7	4.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR16	20220526	Cloudy	Moderate	Mid-Ebb	Middle	8.1	8:34	8.2	8.3	32.3	25.4	3.0	4.0
WSR16	20220526	Cloudy	Moderate	Mid-Ebb	Bottom	15.1	8:33	8.3	8.3	32.2	25.5	2.2	2.5
WSR16	20220526	Cloudy	Moderate	Mid-Ebb	Bottom	15.1	8:33	8.1	8.3	32.1	25.6	2.2	2.5
WSR33	20220526	Cloudy	Moderate	Mid-Ebb	Surface	1.0	9:24	8.6	8.3	32.4	25.9	3.2	2.5
WSR33	20220526	Cloudy	Moderate	Mid-Ebb	Surface	1.0	9:24	8.5	8.3	32.5	25.8	3.1	4.0
WSR33	20220526	Cloudy	Moderate	Mid-Ebb	Middle	3.8	9:23	8.5	8.3	32.6	25.9	3.0	2.5
WSR33	20220526	Cloudy	Moderate	Mid-Ebb	Middle	3.8	9:23	8.6	8.3	32.3	25.7	2.7	3.0
WSR33	20220526	Cloudy	Moderate	Mid-Ebb	Bottom	6.6	9:22	8.6	8.2	32.3	25.9	2.3	2.5
WSR33	20220526	Cloudy	Moderate	Mid-Ebb	Bottom	6.6	9:22	8.6	8.3	32.6	25.8	2.3	2.5
WSR36	20220526	Cloudy	Moderate	Mid-Ebb	Surface	1.0	9:09	9.4	8.2	32.2	25.4	3.4	3.0
WSR36	20220526	Cloudy	Moderate	Mid-Ebb	Surface	1.0	9:09	9.3	8.2	32.3	25.2	3.3	4.0
WSR36	20220526	Cloudy	Moderate	Mid-Ebb	Middle	3.2	9:09	9.2	8.2	32.2	25.4	2.9	3.0
WSR36	20220526	Cloudy	Moderate	Mid-Ebb	Middle	3.2	9:09	9.2	8.2	32.1	25.3	2.4	3.0
WSR36	20220526	Cloudy	Moderate	Mid-Ebb	Bottom	5.4	9:08	9.2	8.2	32.1	25.2	2.6	3.0
WSR36	20220526	Cloudy	Moderate	Mid-Ebb	Bottom	5.4	9:08	9.3	8.2	32.2	25.3	2.7	3.0
WSR37	20220526	Cloudy	Moderate	Mid-Ebb	Surface	1.0	8:56	8.7	8.3	32.4	25.4	2.6	8.0
WSR37	20220526	Cloudy	Moderate	Mid-Ebb	Surface	1.0	8:56	8.6	8.2	32.4	25.4	2.9	9.0
WSR37	20220526	Cloudy	Moderate	Mid-Ebb	Middle	4.3	8:55	8.7	8.3	32.3	25.4	2.9	6.0
WSR37	20220526	Cloudy	Moderate	Mid-Ebb	Middle	4.3	8:55	8.7	8.2	32.5	25.5	3.2	4.0
WSR37	20220526	Cloudy	Moderate	Mid-Ebb	Bottom	7.5	8:54	8.5	8.2	32.3	25.5	2.6	4.0
WSR37	20220526	Cloudy	Moderate	Mid-Ebb	Bottom	7.5	8:54	8.7	8.3	32.4	25.3	2.4	3.0
CE	20220528	Cloudy	Moderate	Mid-Ebb	Surface	1.0	9:29	9.0	8.3	32.8	25.6	3.9	7.0
CE	20220528	Cloudy	Moderate	Mid-Ebb	Surface	1.0	9:29	8.9	8.3	32.8	25.6	4.0	7.0
CE	20220528	Cloudy	Moderate	Mid-Ebb	Middle	10.2	9:28	8.9	8.3	32.6	25.6	4.2	4.0
CE	20220528	Cloudy	Moderate	Mid-Ebb	Middle	10.2	9:28	9.0	8.2	32.7	25.5	4.2	5.0
CE	20220528	Cloudy	Moderate	Mid-Ebb	Bottom	19.4	9:27	8.9	8.2	32.6	25.6	4.5	6.0
CE	20220528	Cloudy	Moderate	Mid-Ebb	Bottom	19.4	9:27	9.0	8.3	32.6	25.6	4.4	7.0
CF	20220528	Cloudy	Moderate	Mid-Ebb	Surface	1.0	11:59	9.0	8.1	33.2	25.8	3.5	7.0
CF	20220528	Cloudy	Moderate	Mid-Ebb	Surface	1.0	11:59	9.1	8.1	33.0	25.8	3.5	4.0
CF	20220528	Cloudy	Moderate	Mid-Ebb	Middle	9.8	11:58	9.1	8.1	33.2	25.9	3.9	2.5
CF	20220528	Cloudy	Moderate	Mid-Ebb	Middle	9.8	11:58	9.0	8.0	33.2	25.7	3.7	3.0
CF	20220528	Cloudy	Moderate	Mid-Ebb	Bottom	18.6	11:57	9.0	8.1	33.0	25.9	3.9	5.0
CF	20220528	Cloudy	Moderate	Mid-Ebb	Bottom	18.6	11:57	9.1	8.2	33.0	25.8	4.0	4.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR01	20220528	Cloudy	Moderate	Mid-Ebb	Surface	1.0	11:36	8.3	8.3	32.8	25.2	4.0	3.0
WSR01	20220528	Cloudy	Moderate	Mid-Ebb	Surface	1.0	11:36	8.3	8.4	33.0	25.2	3.4	4.0
WSR01	20220528	Cloudy	Moderate	Mid-Ebb	Middle	4.3	11:35	8.3	8.3	32.9	25.2	3.3	4.0
WSR01	20220528	Cloudy	Moderate	Mid-Ebb	Middle	4.3	11:35	8.3	8.3	32.9	25.4	3.4	6.0
WSR01	20220528	Cloudy	Moderate	Mid-Ebb	Bottom	7.6	11:34	8.4	8.3	32.9	25.3	3.0	4.0
WSR01	20220528	Cloudy	Moderate	Mid-Ebb	Bottom	7.6	11:34	8.4	8.3	32.8	25.2	3.5	3.0
WSR02	20220528	Cloudy	Moderate	Mid-Ebb	Surface	1.0	11:18	8.3	8.1	32.5	25.6	2.0	2.5
WSR02	20220528	Cloudy	Moderate	Mid-Ebb	Surface	1.0	11:18	8.2	8.1	32.8	25.7	2.1	3.0
WSR02	20220528	Cloudy	Moderate	Mid-Ebb	Middle	4.7	11:17	8.3	8.2	32.6	25.5	2.2	3.0
WSR02	20220528	Cloudy	Moderate	Mid-Ebb	Middle	4.7	11:17	8.2	8.1	32.7	25.5	1.9	4.0
WSR02	20220528	Cloudy	Moderate	Mid-Ebb	Bottom	8.4	11:16	8.2	8.1	32.6	25.6	2.5	4.0
WSR02	20220528	Cloudy	Moderate	Mid-Ebb	Bottom	8.4	11:16	8.3	8.1	32.6	25.5	2.3	3.0
WSR03	20220528	Cloudy	Moderate	Mid-Ebb	Surface	1.0	11:04	8.7	8.2	32.1	25.4	3.8	6.0
WSR03	20220528	Cloudy	Moderate	Mid-Ebb	Surface	1.0	11:04	8.8	8.1	32.2	25.4	3.5	7.0
WSR03	20220528	Cloudy	Moderate	Mid-Ebb	Middle	4.2	11:03	8.8	8.1	32.1	25.4	3.1	4.0
WSR03	20220528	Cloudy	Moderate	Mid-Ebb	Middle	4.2	11:03	8.8	8.1	32.2	25.4	2.9	6.0
WSR03	20220528	Cloudy	Moderate	Mid-Ebb	Bottom	7.4	11:02	8.8	8.1	32.2	25.5	3.7	5.0
WSR03	20220528	Cloudy	Moderate	Mid-Ebb	Bottom	7.4	11:02	8.8	8.2	32.0	25.5	3.2	4.0
WSR04	20220528	Cloudy	Moderate	Mid-Ebb	Surface	1.0	10:52	8.7	8.2	32.2	25.3	3.5	6.0
WSR04	20220528	Cloudy	Moderate	Mid-Ebb	Surface	1.0	10:52	8.7	8.3	32.1	25.3	3.5	8.0
WSR04	20220528	Cloudy	Moderate	Mid-Ebb	Middle	3.6	10:51	8.7	8.2	32.1	25.3	3.2	8.0
WSR04	20220528	Cloudy	Moderate	Mid-Ebb	Middle	3.6	10:51	8.7	8.2	32.2	25.3	3.2	6.0
WSR04	20220528	Cloudy	Moderate	Mid-Ebb	Bottom	6.1	10:50	8.6	8.2	32.0	25.3	2.5	5.0
WSR04	20220528	Cloudy	Moderate	Mid-Ebb	Bottom	6.1	10:50	8.7	8.3	32.2	25.3	2.7	7.0
WSR16	20220528	Cloudy	Moderate	Mid-Ebb	Surface	1.0	9:51	8.7	8.3	32.5	25.8	3.8	5.0
WSR16	20220528	Cloudy	Moderate	Mid-Ebb	Surface	1.0	9:51	8.8	8.4	32.6	25.9	3.8	4.0
WSR16	20220528	Cloudy	Moderate	Mid-Ebb	Middle	8.3	9:50	8.8	8.4	32.3	26.0	3.8	6.0
WSR16	20220528	Cloudy	Moderate	Mid-Ebb	Middle	8.3	9:50	8.8	8.3	32.4	26.0	3.6	8.0
WSR16	20220528	Cloudy	Moderate	Mid-Ebb	Bottom	15.5	9:49	8.7	8.4	32.4	25.8	3.6	8.0
WSR16	20220528	Cloudy	Moderate	Mid-Ebb	Bottom	15.5	9:49	8.8	8.4	32.4	25.9	3.7	5.0
WSR33	20220528	Cloudy	Moderate	Mid-Ebb	Surface	1.0	10:38	8.1	8.3	32.3	25.5	2.4	4.0
WSR33	20220528	Cloudy	Moderate	Mid-Ebb	Surface	1.0	10:38	8.1	8.4	32.2	25.3	2.7	5.0
WSR33	20220528	Cloudy	Moderate	Mid-Ebb	Middle	3.5	10:37	8.2	8.4	32.1	25.5	2.7	6.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR33	20220528	Cloudy	Moderate	Mid-Ebb	Middle	3.5	10:37	8.2	8.3	32.3	25.4	2.3	5.0
WSR33	20220528	Cloudy	Moderate	Mid-Ebb	Bottom	6.0	10:36	8.1	8.3	32.4	25.5	2.5	4.0
WSR33	20220528	Cloudy	Moderate	Mid-Ebb	Bottom	6.0	10:36	8.0	8.3	32.3	25.5	2.5	7.0
WSR36	20220528	Cloudy	Moderate	Mid-Ebb	Surface	1.0	10:25	8.7	8.4	32.3	25.9	3.1	6.0
WSR36	20220528	Cloudy	Moderate	Mid-Ebb	Surface	1.0	10:25	8.7	8.3	32.6	25.7	2.9	6.0
WSR36	20220528	Cloudy	Moderate	Mid-Ebb	Middle	3.8	10:25	8.8	8.4	32.5	25.7	2.1	7.0
WSR36	20220528	Cloudy	Moderate	Mid-Ebb	Middle	3.8	10:25	8.7	8.3	32.3	25.7	2.4	9.0
WSR36	20220528	Cloudy	Moderate	Mid-Ebb	Bottom	6.6	10:24	8.7	8.4	32.6	25.7	2.6	7.0
WSR36	20220528	Cloudy	Moderate	Mid-Ebb	Bottom	6.6	10:24	8.7	8.3	32.2	25.9	2.4	9.0
WSR37	20220528	Cloudy	Moderate	Mid-Ebb	Surface	1.0	10:12	9.1	8.2	32.8	25.3	3.1	7.0
WSR37	20220528	Cloudy	Moderate	Mid-Ebb	Surface	1.0	10:12	9.1	8.2	33.0	25.3	3.1	4.0
WSR37	20220528	Cloudy	Moderate	Mid-Ebb	Middle	4.5	10:11	9.0	8.2	33.0	25.4	3.1	4.0
WSR37	20220528	Cloudy	Moderate	Mid-Ebb	Middle	4.5	10:11	9.1	8.1	33.0	25.3	3.5	4.0
WSR37	20220528	Cloudy	Moderate	Mid-Ebb	Bottom	7.9	10:10	9.1	8.2	33.1	25.4	2.9	7.0
WSR37	20220528	Cloudy	Moderate	Mid-Ebb	Bottom	7.9	10:10	9.1	8.2	33.0	25.3	3.2	6.0
CE	20220531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	11:10	8.2	8.2	32.6	26.3	4.3	12.0
CE	20220531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	11:10	8.2	8.2	32.5	26.3	4.2	13.0
CE	20220531	Cloudy	Moderate	Mid-Ebb	Middle	10.4	11:09	8.2	8.3	32.4	26.3	4.5	11.0
CE	20220531	Cloudy	Moderate	Mid-Ebb	Middle	10.4	11:09	8.2	8.2	32.6	26.2	4.5	14.0
CE	20220531	Cloudy	Moderate	Mid-Ebb	Bottom	19.7	11:08	8.4	8.2	32.5	26.3	5.0	10.0
CE	20220531	Cloudy	Moderate	Mid-Ebb	Bottom	19.7	11:08	8.2	8.2	32.6	26.3	4.8	10.0
CF	20220531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	13:47	8.2	8.2	32.5	26.2	4.0	12.0
CF	20220531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	13:47	8.3	8.2	32.6	26.0	3.9	12.0
CF	20220531	Cloudy	Moderate	Mid-Ebb	Middle	10.5	13:46	8.3	8.3	32.5	26.2	4.1	17.0
CF	20220531	Cloudy	Moderate	Mid-Ebb	Middle	10.5	13:46	8.3	8.2	32.6	26.0	4.3	16.0
CF	20220531	Cloudy	Moderate	Mid-Ebb	Bottom	19.9	13:45	8.3	8.2	32.4	26.2	4.5	11.0
CF	20220531	Cloudy	Moderate	Mid-Ebb	Bottom	19.9	13:45	8.3	8.2	32.5	26.0	4.3	12.0
WSR01	20220531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	13:23	8.2	8.2	32.6	26.2	3.8	14.0
WSR01	20220531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	13:23	8.3	8.3	32.5	26.0	4.4	12.0
WSR01	20220531	Cloudy	Moderate	Mid-Ebb	Middle	4.2	13:22	8.3	8.3	32.5	26.1	4.1	12.0
WSR01	20220531	Cloudy	Moderate	Mid-Ebb	Middle	4.2	13:22	8.4	8.3	32.5	26.1	4.1	13.0
WSR01	20220531	Cloudy	Moderate	Mid-Ebb	Bottom	7.4	13:21	8.3	8.3	32.4	26.1	3.5	10.0
WSR01	20220531	Cloudy	Moderate	Mid-Ebb	Bottom	7.4	13:21	8.3	8.3	32.6	26.0	3.8	7.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR02	20220531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	13:04	8.2	8.2	32.5	26.2	2.1	9.0
WSR02	20220531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	13:04	8.4	8.2	32.6	26.1	2.0	10.0
WSR02	20220531	Cloudy	Moderate	Mid-Ebb	Middle	4.9	13:03	8.4	8.3	32.5	26.0	2.3	9.0
WSR02	20220531	Cloudy	Moderate	Mid-Ebb	Middle	4.9	13:03	8.2	8.2	32.4	26.2	2.2	11.0
WSR02	20220531	Cloudy	Moderate	Mid-Ebb	Bottom	8.7	13:02	8.3	8.2	32.4	26.1	2.7	17.0
WSR02	20220531	Cloudy	Moderate	Mid-Ebb	Bottom	8.7	13:02	8.4	8.2	32.6	26.2	2.5	14.0
WSR03	20220531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	12:48	8.3	8.2	32.5	26.0	3.9	15.0
WSR03	20220531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	12:48	8.2	8.2	32.6	26.0	4.0	16.0
WSR03	20220531	Cloudy	Moderate	Mid-Ebb	Middle	4.0	12:47	8.2	8.3	32.5	26.0	3.5	14.0
WSR03	20220531	Cloudy	Moderate	Mid-Ebb	Middle	4.0	12:47	8.2	8.2	32.6	26.2	3.4	15.0
WSR03	20220531	Cloudy	Moderate	Mid-Ebb	Bottom	7.0	12:46	8.3	8.3	32.4	26.0	3.4	14.0
WSR03	20220531	Cloudy	Moderate	Mid-Ebb	Bottom	7.0	12:46	8.3	8.3	32.5	26.2	3.6	14.0
WSR04	20220531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	12:35	8.3	8.3	32.4	25.8	3.5	13.0
WSR04	20220531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	12:35	8.3	8.2	32.6	26.0	3.4	14.0
WSR04	20220531	Cloudy	Moderate	Mid-Ebb	Middle	3.5	12:34	8.3	8.2	32.4	26.0	3.3	11.0
WSR04	20220531	Cloudy	Moderate	Mid-Ebb	Middle	3.5	12:34	8.3	8.2	32.6	26.0	3.2	8.0
WSR04	20220531	Cloudy	Moderate	Mid-Ebb	Bottom	5.9	12:33	8.2	8.2	32.4	25.8	2.7	11.0
WSR04	20220531	Cloudy	Moderate	Mid-Ebb	Bottom	5.9	12:33	8.2	8.2	32.5	25.8	2.8	11.0
WSR16	20220531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	11:32	8.2	8.2	32.6	26.1	3.6	9.0
WSR16	20220531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	11:32	8.3	8.3	32.6	26.0	3.3	10.0
WSR16	20220531	Cloudy	Moderate	Mid-Ebb	Middle	8.2	11:31	8.2	8.2	32.5	26.1	3.2	9.0
WSR16	20220531	Cloudy	Moderate	Mid-Ebb	Middle	8.2	11:31	8.3	8.2	32.6	26.0	3.1	8.0
WSR16	20220531	Cloudy	Moderate	Mid-Ebb	Bottom	15.4	11:30	8.3	8.3	32.5	26.1	2.9	9.0
WSR16	20220531	Cloudy	Moderate	Mid-Ebb	Bottom	15.4	11:30	8.2	8.2	32.4	26.1	3.1	11.0
WSR33	20220531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	12:21	8.3	8.2	32.5	26.0	4.1	11.0
WSR33	20220531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	12:21	8.3	8.2	32.5	26.2	3.9	15.0
WSR33	20220531	Cloudy	Moderate	Mid-Ebb	Middle	3.7	12:20	8.3	8.2	32.6	26.2	3.5	12.0
WSR33	20220531	Cloudy	Moderate	Mid-Ebb	Middle	3.7	12:20	8.3	8.2	32.5	26.1	3.9	12.0
WSR33	20220531	Cloudy	Moderate	Mid-Ebb	Bottom	6.4	12:19	8.2	8.3	32.4	26.0	3.6	11.0
WSR33	20220531	Cloudy	Moderate	Mid-Ebb	Bottom	6.4	12:19	8.3	8.2	32.5	26.1	3.2	14.0
WSR36	20220531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	12:06	8.3	8.2	32.6	26.0	3.8	12.0
WSR36	20220531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	12:06	8.2	8.2	32.6	26.1	3.8	12.0
WSR36	20220531	Cloudy	Moderate	Mid-Ebb	Middle	3.4	12:06	8.4	8.2	32.4	26.1	3.4	8.0

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (oC)	Turbidty (NTU)	Suspended Solids (mg/L)
WSR36	20220531	Cloudy	Moderate	Mid-Ebb	Middle	3.4	12:06	8.2	8.2	32.4	26.0	3.6	9.0
WSR36	20220531	Cloudy	Moderate	Mid-Ebb	Bottom	5.8	12:05	8.3	8.2	32.5	26.1	3.6	10.0
WSR36	20220531	Cloudy	Moderate	Mid-Ebb	Bottom	5.8	12:05	8.3	8.2	32.5	26.1	3.2	8.0
WSR37	20220531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	11:53	8.3	8.2	32.6	25.8	3.2	10.0
WSR37	20220531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	11:53	8.3	8.2	32.4	25.9	3.7	11.0
WSR37	20220531	Cloudy	Moderate	Mid-Ebb	Middle	4.3	11:52	8.4	8.2	32.6	25.9	3.1	9.0
WSR37	20220531	Cloudy	Moderate	Mid-Ebb	Middle	4.3	11:52	8.3	8.2	32.5	25.8	3.1	9.0
WSR37	20220531	Cloudy	Moderate	Mid-Ebb	Bottom	7.6	11:51	8.3	8.1	32.4	25.8	2.9	10.0
WSR37	20220531	Cloudy	Moderate	Mid-Ebb	Bottom	7.6	11:51	8.2	8.2	32.4	25.9	2.8	9.0

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

Serial No.	Monitoring Equipment	Last Calibration
234928	GIMI- PSSOO	29/9/2021

Monitoring	Date	Time	Weather Condition		Landfill Gas	Parameters		Physical Parameters		Meas	ured by
Location	(dd/mm/yyyy)	(hh:mm)	Sunny/ Fine/ Overcast/ Drizzle/ Rain/ Storm/ Hazy	Methane (%LEL)	Oxygen (%)	Carbon Dioxide (%)	Balance Gas (%) (e.g. H2S)	Temp (°C) / Pressure mBar	Trench Depth (m)	Name	Signature
Ch1+360 - Ch1+513	} / 5/ 2022	8:30	the Rein	U	ひぃく	0,04	Ű	25.2 /1158	2	Peter	MAL
Ch1+360 - Ch1+513	} / 5/ 2022	13:30	Prizzle	Λ	20 l	0.04	0	25.8 1/0158	2	Peter	Mr.L
Ch1+360 - Ch1+513	4 / 5/ 2022	8:30	Pfizzle	0	2v. P	Diog	Ø	222 / 194,3	2	Peter	MAR
Ch1+360 - Ch1+513	4 / 5/ 2022	13:30	Plizle	0	We	0104	0	76.5 / 1014.3	2	Peter	MAR
Ch1+360 - Ch1+513	テ / 5/ 2022	8:30	Fine	0	209	0.04	Ø	21,2 / 1012,6	2	Peter	MAL
Ch1+360 - Ch1+513	ラ / 5/ 2022	13:30	Fire	Ø	20.9	0,04	ġ	N, 9 / (ull,6	2	Peter	MAR
Ch1+360 - Ch1+513	6 / 5/ 2022	8:30	Fine	0	20.9	0,04	0	259 1/01214	2	Peter	MAG. R
Ch1+360 - Ch1+513	6 / 5/ 2022	13:30	Film	S	20.9	0.04	0	28.2 1/012.4	2	Peter	MAN
Ch1+360 - Ch1+513	フ / 5/ 2022	8:30	Fine	0	20.9	0,04	υ	251 / jou 3	2	Peter	WG/L
Ch1+360 - Ch1+513	7 / 5/ 2022	13:30	Fire	0	20.9	0,04	0	28,7 / /013	2	Peter	MAR
Ch1+360 Ch1+513	/ 5/ 2022	8:30			1			/	2	Peter	
Ch1+360 - Ch1+513	/ 5/ 2022	13:30						/	2	Peter	
Ch1+360 - Ch1+513	/ 5/ 2022	8:30						/	2	Peter	
Ch1 =360 - Ch1+513	/ 5/ 2022	13:30						/	2	Peter	

Checked by: 50m Wong Rhst-3 Date 13/6/2022

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

Serial No.	Monitoring Equipment	Last Calibration
254928	GMI-PS 500	29/9/202

Monitoring	Date	Time	Weather Condition		Landfill Gas	Parameters		Physical Parameters		Meas	ured by
Location	(dd/mm/yyyy)	(hh:mm)	Sunny/ Fine/ Overcast/ Drizzle/ Rain/ Storm/ Hazy	Methane (%LEL)	Oxygen (%)	Carbon Dioxide (%)	Balance Gas (%) (e.g. H2S)	Temp (°C) / Pressure mBar	Trench Depth (m)	Name	Signature
Ch1+360 - Ch1+513	/ _v / 5/ 2022	8:30	Fine	D	20,9	Divy	D	24,7 / 1009,7	2	Peter	A.M.
Ch1+360 - Ch1+513	(🤉 / 5/ 2022	13:30	Fire	Q	20,8	0,04	0	26.1 1/0097	2	Peter	MAR
Ch1+360 - Ch1+513	/ 5/ 2022	8:30	brizzle	0	W.S	0,04	P	25.1 1/007,8	2	Peter	ANA R
Ch1+360 - Ch1+513	/ 5/ 2022	13:30	Prince	0	2005	0,04	0	25.6 1 /007.8	2	Peter	MAL
Ch1+360 - Ch1+513	12 / 5/ 2022	8:30	Lite	0	WI	2.04	0	25,1 / 1006	2	Peter	Inter
Ch1+360 - Ch1+513	() / 5/ 2022	13:30	Fine	0	201	0,4	D	26.7 / 1006	2	Peter	Migh
Ch1+360 - Ch1+513	3 / 5/ 2022	8:30	Fire	0	20. 9	0,04	Ø	22.9 / 6005.2	2	Peter	M. L
Ch1+360 - Ch1+513	ر J / 5/ 2022	13:30	File	0	20.9	0.04	D	26-5 / 1005.2	2	Peter	MAN
Ch1+360 - Ch1+513	14 15/2022	8:30	Prizzle	Q	20.1	6.04	ð	24,1 1/0.8.2	2	Peter	MAR
Ch1+360 - Ch1+513	14 / 5/ 2022	13:30	Prizzle	υ	wj	2.04	Ø	26.2 / 1,08.2	2	Peter	MA
Ch 1+360-Ch1+513	/ 5/ 2022				1			/	2	Peter	
Ch1+360 - Ch1+513	/ 5/ 2022	13:30						1	2	Peter	
Ch1+360 - Ch1+513	/ 5/ 2022	8:30						/	2	Peter	
Ch1+360 Ch1+513	/ 5/ 2022	13:30						/	2	Peter	,

Checked by : Wong RWSD-3 Date

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

Serial No.	Monitoring Equipment	Last Calibration
254928	6741-PS 500	29/9/2021
		11 /

Monitoring	Date	Time	Weather Condition		Landfill Gas	Parameters	1	Physical Parameters		Meas	ured by
Location	(dd/mm/yyyy)	(hh:mm)	Sunny/ Fine/ Overcast/ Drizzle/ Rain/ Storm/ Hazy	Methane (%LEL)	Oxygen (%)	Carbon Dioxide (%)	Balance Gas (%) (e.g. H2S)	Temp (°C) / Pressure mBar	Trench Depth (m)	Name	Signature
Ch1+360 - Ch1+513	6 / 5/ 2022	8:30	Divizzle	D)al	0,04	0	19.1 1/009.8	2	Peter	MER
Ch1+360 - Ch1+513	/b / 5/ 2022	13:30	Drizzle	5	209	م روم	5	202 1/009,8	2	Peter	WAR
Ch1+360 - Ch1+513	ן / 5/ 2022	8:30	Fine	0	20.8	0,04	D	20.1 //012.4	2	Peter	MAR
Ch1+360 - Ch1+513		13:30	Fire	ο	201	0,54	Ø	26.) / 101214	2	Peter	NA
Ch1+360 - Ch1+513	8 / 5/ 2022	8:30	Fire	o	20.9	2.04	0	22.2 /1013.6	2	Peter	MAR
Ch1+360 - Ch1+513	8 / 5/ 2022	13:30	Fire	0	2.1	0,04	D	·26.7 / / 113.6	2	Peter	MAR
Ch1+360 - Ch1+513		8:30	Fine	D	2029	0,04	0	24.1 / /013.8	2	Peter	1AR-
Ch1+360 - Ch1+513	/ 5/ 2022	13:30	Fine	0	20.5	0.04	0	29.3 1/113.8	2	Peter	MAL
Ch1+360 - Ch1+513	2 / 5/ 2022	8:30	Fin	Ο	20.5	0.19	0	25.2 / follis	2	Peter	MAN
Ch1+360 - Ch1+513	√ / 5/ 2022	13:30	Servery	0	20.1	0.0.4	0	30.2 1/01/1	2	Peter	MAR
Ch1+360 - Ch1+513	2 / 5/ 2022	8:30	Time	θ	20.1	0.04	ß	24,9 / 1009,2	2	Peter	MAR
Ch1+360 - Ch1+513	ペ / 5/ 2022	13:30	Fire	0	20.5	0,04	D	29.7 / (009.2	2	Peter	hm
Ch1+360 - Ch1+513	/ 5/ 2022	8:30			1				2	Peter	-
Ch1+360-Ch1+513	/ 5/-2022	13:30						//	2	Peter	
											<u>5</u> .

Checked by: Jum Weng RWSJ-3 2022 Date

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

Serial No.	Monitoring Equipment	Last Calib	pration
254928	GMI - PS500	29/9/	202

Monitoring	Date	Time	Weather Condition		Landfill Gas	Parameters		Physical Parameters		Meas	ured by
Location	(dd/mm/yyyy)	(hh:mm)	Sunny/ Fine/ Overcast/ Drizzle/ Rain/ Storm/ Hazy	Methane (%LEL)	Oxygen (%)	Carbon Dioxide (%)	Balance Gas (%) (e.g. H2S)	Temp (°C) / Pressure mBar	Trench Depth (m)	Name	Signature
Ch1+360 - Ch1+513	Zz 15/2022	8:30	Subary	D	Zul	6, , 4	0	27,7 1/007,6	2	Peter	MAR
Ch1+360 - Ch1+513	23 / 5/ 2022	13:30	tain	ρ	2006	Dioy	ð	24,5 1/007,6	2	Peter	WER.
Ch1+360 - Ch1+513	74 / 5/ 2022	8:30	Prink	0	WI	0.04	Ø	24,1 1/0.9.2	2	Peter	MER
Ch1+360 - Ch1+513	24 / 5/ 2022	13:30	hyzarle	Ο	20.9	0.04	Ø	24.5 1/009,2	2	Peter	MAR
Ch1+360 - Ch1+513	_し ら / 5/ 2022	8:30	Drizzle	Ο	200	P.04	Ø	23,8 1/007,2	2	Peter	MAR
Ch1+360 - Ch1+513	25 / 5/ 2022	13:30	htizzle	0	22.0	D.04	0	26.8 / 1007.2	2	Peter	MAGA
Ch1+360 - Ch1+513	V 15/2022	8:30	File	Ð	wi	0,04	Ø	26.2 1/0.4.7	2	Peter	Ipto 12
Ch1+360 - Ch1+513	Jb / 5/ 2022	13:30	File	0	20.1	0,04	0	27, 5 / 1004,7	2	Peter	Mr. A
Ch1+360 - Ch1+513	27 / 5/ 2022	8:30	Fire	0	20.5	0- 04	0	26.5 / 10043	2	Peter	RAN
Ch1+360 - Ch1+513	レフ / 5/ 2022	13:30	File	д	2~.1	0,04	0	27. 1 104.3	2	Peter	MAR
Ch1+360 - Ch1+513	J& 1 51 2022	8:30	Fine	0	20-1	0,04	0	27,9 / 1005.5	2	Peter	MAT
Ch1+360 - Ch1+513	28 / 5/ 2022	13:30	Fine	J	201	0,09	O	30.3 / 10055	2	Peter	aver
Ch1+360 - Ch1+513	/ 5/ 2022	8:30	The working	4	1 1		4	/	2	Peter	
Ch1+360 - Ch1+513	/ 5/ 2022	13:30	backfilled a	and asp		aved o	n 28/5/	2022/	2	Peter	
			J	/	/		//				
											*

Checked by : PNSI-3 NOWA Date 2022

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Appendix M

HOKLAS Laboratory Certificate

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Hong Kong Accreditation Service 香港認可處

Certificate of Accreditation 認可證書

This is to certify that 特此證明

ACUMEN LABORATORY AND TESTING LIMITED

浩科檢測中心有限公司

Lot 12, Tam Kon Shan Road, North Tsing Yi, New Territories, Hong Kong 香港新界青衣北担杆山路12路段

is accredited by the Hong Kong Accreditation Service (HKAS) to ISO/IEC 17025:2017 for performing specific laboratory activities as listed in the scope of accreditation within the test category of 癔香港認可處根據ISO/IEC 17025:2017認可 進行載於認可範圍內下遲測試類別中的指定實驗所活動

Environmental Testing

環境測試

This accreditation to ISO/IEC 17025:2017 demonstrates technical competence for a defined scope and the implementation of a management system relevant to laboratory operation (see joint IAF-ILAC-ISO Communique). 此項 ISO/IEC 17025:2017 的認可資格證明此實驗所具備指定範疇內所須的技術能力並 實施一業與實驗所還作相關的管理體系 (見圖原認可論進、國際實驗所認可合作相識及國際標準化組織的聯合公報)。

The common seal of HKAS is affixed hereto by the authority of the HKAS Executive 現經香港認可處執行機關授權在此蓋上香港認可處的印章

SHOM Wall-leung, Executive Administrator 執行幹事 沈偉良 Issue Date : 2 December 2019 **簽發日期:二零一九年十二月二日**

Registration Number : HOKLAS 241 註冊號碼:



Date of First Registration: 16 July 2014 首次註冊日期:二零一四年七月十六日

This certificate is issued subject to the terms and conditions laid down by HKAS 本證書授照香港認可處訂立的集款及條件發出 L001875





Appendix N

Water Quality and Landfill Gas Equipment Calibration Certificate

The copyright of this document is owned by Acuity Sustainability Consulting Limited. It may not be reproduced except with prior written approval from the Company.



專業化驗有限公司 QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email: info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. Date of Issue Page No. : R-BB040069 : 26 April 2022 : 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 (HK) Hong Kong Attn :

PART B - SAMPLE INFORMATION

Name of Equipment :	YSI ProDSS (Multi-Parameters)
Manufacturer :	YSI (a xylem brand)
Serial Number :	22C106561
Date of Received :	21 April 2022
Date of Calibration :	21 April 2022
Date of Next Calibration :	20 July 2022

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

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

PART D - CALIBRATION RESULT

(1) Turbidity

EXPECTED READING (NTU)	DISPLAY READING (NTU)	TOLERANCE (%)	RESULT
0	0.08		Satisfactory
10	10.4	4.0	Satisfactory
20	20.13	0.6	Satisfactory
100	98.2	-1.8	Satisfactory
800	803.19	0.4	Satisfactory

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

(2) Dissolved oxygen

EXPECTED READING (MG/L)	DISPLAY READING (MG/L)	TOLERANCE (MG/L)	RESULT
8.23	8.39	0.16	Satisfactory
5.61	5.79	0.18	Satisfactory
4.20	4.36	0.16	Satisfactory
0.15	0.40	0.25	Satisfactory

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

(3) pH value

TARGET (PH UNIT)	DISPLAY READING (PH UNIT)	TOLERANCE	RESULT
CONTINUEI	*		
		1	

AUTHORIZED SIGNATORY:

LEE Chun-hing Assistant Manager (Chemical Testing)

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BB040069

	Date of Issue Page No.	: 26 April 2 : 2 of 2	2022
TARGET (PH UNIT)	DISPLAY READING (PH UNIT)	TOLERANCE	RESULT
4.00	4.11	0.11	Satisfactory
7.42	7.50	0.08	Satisfactory
10.01	10.08	0.07	Satisfactory

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

(4) Salinity

EXPECTED READING (G/L)	DISPLAY READING (G/L)	TOLERANCE (%)	RESULT
10	10.68	6.80	Satisfactory
20	21.55	7.75	Satisfactory
30	31.21	4.03	Satisfactory

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

(5) Temperature

READING OF REF. THERMOMETER (°C)	DISPLAY READING (°C)	TOLERANCE (°C)	RESULT
15.9	15.6	-0.3	Satisfactory
24.0	23.9	-0.1	Satisfactory
34.0	33.7	-0.3	Satisfactory

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

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 ---



專業化驗有限公司 QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email: info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. Date of Issue Page No. : R-BB050023 : 13 May 2022 : 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 (HK) Hong Kong Attn :

PART B - SAMPLE INFORMATION

HORIBA U-53
HORIBA
PPHNOMXY
06 May 2022
12 May 2022
11 August 2022

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

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

PART D - CALIBRATION RESULT

(1) Turbidity

EXPECTED READING (NTU)	DISPLAY READING (NTU)	TOLERANCE (%)	RESULT
0	0	, '	Satisfactory
10	11.0	10.0	Satisfactory
20	20.13	0.6	Satisfactory
100	99.9	-0.1	Satisfactory
800	808	1.0	Satisfactory

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

(2) Dissolved oxygen

EXPECTED READING (MG/L)	DISPLAY READING (MG/L)	TOLERANCE (MG/L)	RESULT
8.02	7.99	-0.03	Satisfactory
5.16	5.43	0.27	Satisfactory
3.74	4.21	0.47	Satisfactory
0.94	1.40	0.46	Satisfactory

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

(3) pH value

TARGET (PH UNIT)	DISPLAY READING (PH UNIT)	TOLERANCE	RESULT
CONTINUED ON NEXT PAGE			

-- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun-ning

Assistant Manager (Chemical Testing)



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BB050023

	Date of Issue Page No.	: 13 May 20 : 2 of 2	022
TARGET (PH UNIT)	DISPLAY READING (PH UNIT)	TOLERANCE	RESULT
4.00	3.99	-0.01	Satisfactory
7.42	7.28	-0.14	Satisfactory
10.01	9.95	-0.06	Satisfactory

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

(4) Salinity

EXPECTED READING (G/L)	DISPLAY READING (G/L)	TOLERANCE (%)	RESULT
10	10.26	2.60	Satisfactory
20	21.35	6.75	Satisfactory
30	32.54	8.47	Satisfactory

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

(5) Temperature

READING OF REF. THERMOMETER ($^{\circ}C$)	DISPLAY READING (°C)	TOLERANCE (°C)	RESULT
17.0	17.11	0.11	Satisfactory
24.0	23.99	-0.01	Satisfactory
34.0	33.84	-0.16	Satisfactory

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

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 ----



Customer Name	PROMAT (HK) LTD
Customer Details	SAN PO KONG
	KOWLOON
	HONG KONG
Order Number	21000418
Acknowledgement Number	165921
Instrument	PS500
Serial number	254928
Test Date	29 September 2021

This instrument has been manufactured in accordance with our ISO9001 approved procedures and conforms to the quality and manufacturing standards laid down in our process. This instrument has been calibrated using gases that are traceable to national standards.

CALIBRATION RESULTS

Gas Applied	Conc.	Range	After Cal
CO2	3.00 % CO2	÷	3.00 %
Methane	50 % LEL	LEL	50 %
02	Air	& VOL	20.9 %
H2S	50 PPM H2S	PPM	50 PPM
со	500 PPM CO	PPM	499 PPM

Calibrated on behalf of GMI Ltd by:





Appendix O

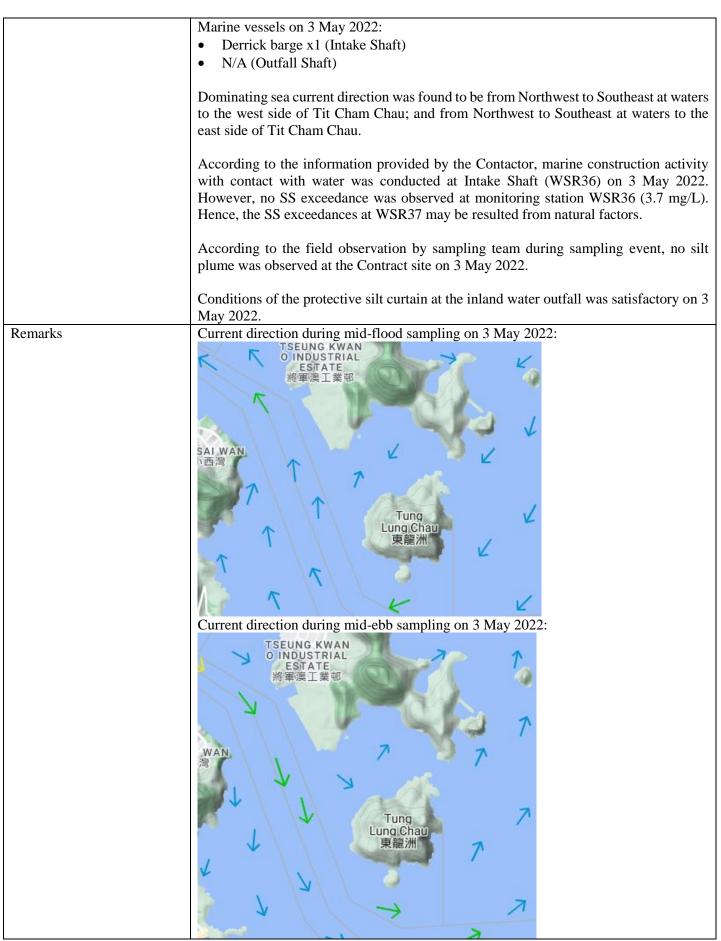
Exceedance Report (s)

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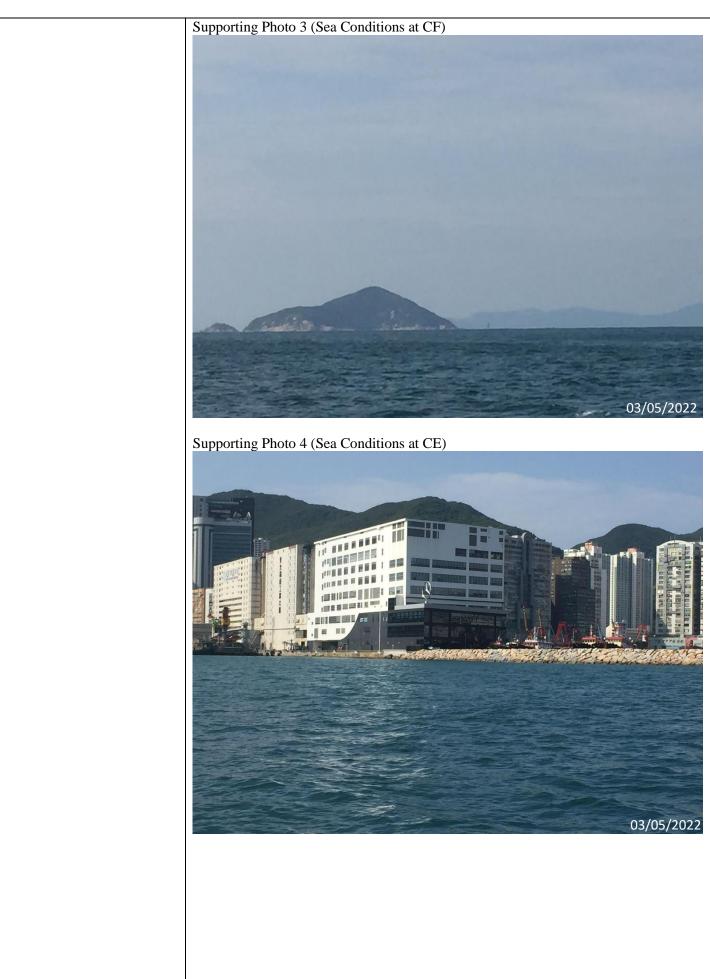
Incident Report on Action Level or Limit Level Non-Compliance

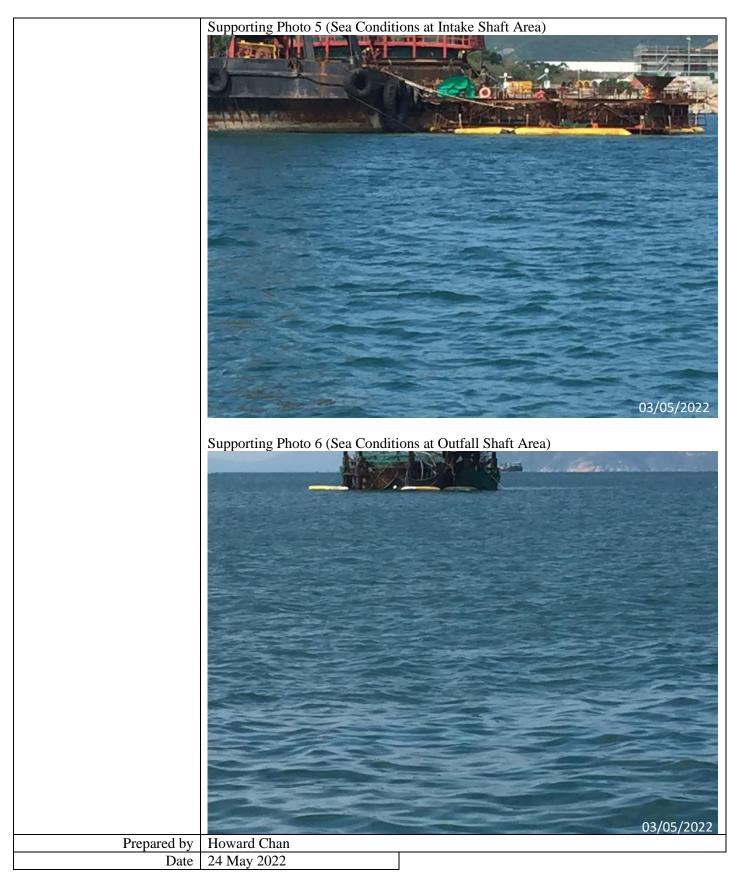
Date 3 May 2022 (Lab result received on 11 May 2022) Time 08:00-10:06 (Mid-Flood) and 11:58-15:28 (Mid-Ebb) Monitoring Location WSR36 Image: Superiod Solid (SS) Image: Superiod Solid (SS) Action & Limit Levels Action Level Image: Solid Solid (SS) Limit Level Measurement Level Impact Station(s) of Exceedance 6.2 mg/L (WSR 36) 2.9 mg/L (CE) 6.2 mg/L (WSR 36) 2.9 mg/L (CE) 7.0 mg/L (WSR 1) 2.5 mg/L (WSR 3) 2.7 mg/L (WSR 1) 2.5 mg/L (WSR 3) 2.6 mg/L (WSR 36) 2.9 mg/L (CE) 2.5 mg/L (WSR 37) 2.5 mg/L (WSR 37) Possible reason for Action or Limit Level Non-compliance Outfall Shaft Area: marine construction activities, namely 1) Derrick barge assisted th trial or ockfill retrieval by suction pipe inside the Intake Shaft on-and-off whi adjusting the pipeline fixings.	Project	Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant			
Time 08:00-10:06 (Mid-Flood) and 11:58-15:28 (Mid-Ebb) Monitoring Location WSR36 Washington and the second seco	Ŭ				
Mid-Flood Monitoring Location WSR36 Image: Second BLACE Image: Second BLACE Parameter Suspended Solid (SS) Action & Limit Levels Action Level > 6.0 mg/L > 6.5 mg/L Measurement Level Impact Station(s) of Exceedance 6.2 mg/L (WSR 36) 2.9 mg/L (CE) 9.0 mg/L (WSR 36) 2.9 mg/L (CE) 2.7 mg/L (WSR 1) 2.7 mg/L (WSR 1) 2.7 mg/L (WSR 37) 2.7 mg/L (WSR 37) Possible reason for Action or Limit Level Non-compliance Outfall Shaft Area: marine construction activities, namely 1) dewatering pur operation inside the outfall caisson Intake Shaft Area: marine construction activities, namely 1) dewatering pur operation inside the outfall caisson Intake Shaft Area: marine construction activities, namely 1) dewatering pur operation inside the outfall caisson Intake Shaft Area: marine construction activities, namely 1) dewatering pur operation inside the outfall caisson Intake Shaft Area: marine construction activities, namely 1) Derrick barge assisted the trial of rockfill retrieval by suction pipe inside the Intake Shaft on-and-off while adjusting the pipeline fixings. Marine vessels on 3 May 2022: • Derrick barge assisted the trial by pipeline fixings.	Time				
Parameter Suspended Solid (SS) Action & Limit Levels Action Level Measurement Level Impact Station(s) of Exceedance 6.2 mg/L > 6.0 mg/L 6.2 mg/L > 6.0 mg/L 2.9 mg/L > 6.1 mg/L Suspended Solid (SS) Impact Station(s) without Exceedance 6.2 mg/L > 6.0 mg/L Suspended Solid (SS) Control Stations Impact Station(s) of Exceedance Exceedance 6.2 mg/L (WSR 36) 2.9 mg/L (CF) 2.6 mg/L (WSR 36) 2.9 mg/L (CF) 2.6 mg/L (WSR 37) 2.6 mg/L (WSR 37) Possible reason for Action or Limit Level Non-compliance Outfall Shaft Area: marine construction activities, namely 1) Derrick barge assisted 11 trial of rockfill retrieval by suction pipe inside the Intake Shaft on-and-off whia adjusting the pipeline fixings. Marine construction activities with contact with water: 1) Derrick barge assisted the trial of rockfill retrieval by suction pipe inside the Intake Shaft on-and-off whia adjusting the pipeline fixings. Marine vessels on 3 May 2022: Derrick barge assisted 01 trial or hor-and-off while adjustin the pipeline fixings.					
Parameter Suspended Solid (SS) Action & Limit Levels Action Level Limit Level > 6.0 mg/L > 6.5 mg/L Measurement Level Impact Station(s) of Exceedance Control Stations Impact Station(s) withou Exceedance 6.2 mg/L (WSR 36) 2.9 mg/L (CE) 4.9 mg/L (WSR 1) 5.0 mg/L (CF) 2.7 mg/L (WSR 2) 6.0 mg/L (WSR 36) 2.9 mg/L (CF) 2.7 mg/L (WSR 4) 2.6 mg/L (WSR 33) 2.8 mg/L (WSR 33) 2.8 mg/L (WSR 33) 2.8 mg/L (WSR 37) Outfall Shaft Area: marine construction activities, namely 1) dewatering pur operation inside the outfall caisson Intake Shaft Area: marine construction activities, namely 1) Derrick barge assisted th trial of rockfill retrieval by suction pipe inside the Intake Shaft on-and-off while adjusting the pipeline fixings. Marine construction activities with contact with water: 1) Derrick barge assisted the tri of rockfill retrieval by suction pipe inside the Intake Shaft on-and-off while adjustin the pipeline fixings. Marine vessels on 3 May 2022: • Derrick barge x1 (Intake Shaft)	Monitoring Location	HONG KONG ISLAND	Water Bay WSR37 WS	Water Quality Monitoring Station	
Action & Limit Levels Action Level Limit Level Measurement Level Impact Station(s) of Exceedance Control Stations Impact Station(s) withou Exceedance 6.2 mg/L (WSR 36) 2.9 mg/L (CE) 4.9 mg/L (WSR 1) 5.0 mg/L (CF) 2.7 mg/L (WSR 3) 2.7 mg/L (WSR 4) 2.6 mg/L (WSR 3) 2.8 mg/L (WSR 37) 2.8 mg/L (WSR 37) Possible reason for Action or Limit Level Non-compliance Outfall Shaft Area: marine construction activities, namely 1) dewatering pun operation inside the outfall caisson Intake Shaft Area: marine construction activities, namely 1) Derrick barge assisted th trial of rockfill retrieval by suction pipe inside the Intake Shaft on-and-off while adjusting the pipeline fixings. Marine construction activities with contact with water: 1) Derrick barge assisted the tri of rockfill retrieval by suction pipe inside the Intake Shaft on-and-off while adjustin the pipeline fixings. Marine vessels on 3 May 2022: • Derrick barge x1 (Intake Shaft)	Parameter	Suspended Solid (SS)	¢	N Cloneites 2 Indicative Leastern of Sectors relate Indicative Leastern of Sectors relate Indicative Leastern of Sectors relate	
> 6.0 mg/L > 6.5 mg/L Measurement Level Impact Station(s) of Exceedance Control Stations Impact Station(s) withou Exceedance 6.2 mg/L (WSR 36) 2.9 mg/L (CE) 4.9 mg/L (WSR 1) 5.0 mg/L (CF) 2.7 mg/L (WSR 2) 6.0 mg/L (WSR 3) 2.7 mg/L (WSR 4) 2.6 mg/L (WSR 4) 2.6 mg/L (WSR 33) 2.5 mg/L (WSR 37) 0utfall Shaft Area: marine construction activities, namely 1) dewatering pun operation inside the outfall caisson Intake Shaft Area: marine construction activities, namely 1) Derrick barge assisted th trial of rockfill retrieval by suction pipe inside the Intake Shaft on-and-off whi adjusting the pipeline fixings. Marine construction activities with contact with water: 1) Derrick barge assisted the tri of rockfill retrieval by suction pipe inside the Intake Shaft on-and-off while adjustin the pipeline fixings. Marine vessels on 3 May 2022: • Derrick barge x1 (Intake Shaft)		· · ·	Limit Level		
Measurement Level Impact Station(s) of Exceedance Control Stations Impact Station(s) withou Exceedance 6.2 mg/L (WSR 36) 2.9 mg/L (CE) 4.9 mg/L (WSR 1) 2.7 mg/L (WSR 2) 6.0 mg/L (WSR 3) 2.7 mg/L (WSR 3) 2.5 mg/L (WSR 3) 2.5 mg/L (WSR 3) 2.8 mg/L (WSR 37)					
5.0 mg/L (CF) 2.7 mg/L (WSR 2) 6.0 mg/L (WSR 3) 2.7 mg/L (WSR 4) 2.6 mg/L (WSR 4) 2.6 mg/L (WSR 33) 2.7 mg/L (WSR 4) 2.6 mg/L (WSR 33) 2.5 mg/L (WSR 33) 2.8 mg/L (WSR 33) 2.8 mg/L (WSR 37) 0 Possible reason for Action or Limit Level Non-compliance Outfall Shaft Area: marine construction activities, namely 1) dewatering pun operation inside the outfall caisson Intake Shaft Area: marine construction activities, namely 1) Derrick barge assisted the trial of rockfill retrieval by suction pipe inside the Intake Shaft on-and-off whi adjusting the pipeline fixings. Marine construction activities with contact with water: 1) Derrick barge assisted the tri of rockfill retrieval by suction pipe inside the Intake Shaft on-and-off while adjustin the pipeline fixings. Marine vessels on 3 May 2022: • Derrick barge x1 (Intake Shaft)	Measurement Level	Impact Station(s) of Exceedance	Control Stations		
Possible reason for Action or Limit Level Non-complianceOutfall Shaft Area: marine construction activities, namely 1) dewatering pur operation inside the outfall caissonIntake Shaft Area: marine construction activities, namely 1) Derrick barge assisted th trial of rockfill retrieval by suction pipe inside the Intake Shaft on-and-off whi adjusting the pipeline fixings.Marine construction activities with contact with water: 1) Derrick barge assisted the tri of rockfill retrieval by suction pipe inside the Intake Shaft on-and-off while adjustin the pipeline fixings.Marine vessels on 3 May 2022: • Derrick barge x1 (Intake Shaft)		6.2 mg/L (WSR 36)		2.7 mg/L (WSR 2) 6.0 mg/L (WSR 3) 2.7 mg/L (WSR 4) 2.6 mg/L (WSR 16) 2.5 mg/L (WSR 33)	
 trial of rockfill retrieval by suction pipe inside the Intake Shaft on-and-off whi adjusting the pipeline fixings. Marine construction activities with contact with water: 1) Derrick barge assisted the tri of rockfill retrieval by suction pipe inside the Intake Shaft on-and-off while adjustin the pipeline fixings. Marine vessels on 3 May 2022: Derrick barge x1 (Intake Shaft) 					
Marine vessels on 3 May 2022:Derrick barge x1 (Intake Shaft)		Marine construction activities with contact with water: 1) Derrick barge assisted the trial of rockfill retrieval by suction pipe inside the Intake Shaft on-and-off while adjusting			
Dominating sea current direction was found to be from Southeast to Northwest at wate to the west side of Tit Cham Chau; and from Northeast to Southwest at waters to th east side of Tit Cham Chau.		 Marine vessels on 3 May 202 Derrick barge x1 (Intake N/A (Outfall Shaft) Dominating sea current direct to the west side of Tit Cham 	Shaft) tion was found to be from Sou		

	According to the information provided by the Contactor, marine construction activity with contact with water was conducted at Intake Shaft (WSR36) on 3 May 2022, SS exceedance was observed at monitoring station WSR36 (5.2 mg/L). During the construction activities, the Intake Shaft was enclosed by silt curtains. Considering that the water quality mitigation measure was properly implemented during the construction activities, the SS exceedances at WSR36 may be resulted from natural factors. According to the field observation by sampling team during sampling event, no silt plume was observed at the Contract site on 3 May 2022.		
	Conditions of the protective silt curtain at the inland water outfall was satisfactory on 3 May 2022.		
	Mid-H	Ebb	
Monitoring Location	WSR37		
	HONG KONG ISLAND Tai Tam	Clear Water Bay WSR33 WSR36 WSR4 WSR4 WSR4 WSR4 WSR4 WSR4 WSR4 WSR4	
		¢.	Key N N Klientres 1
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level	Limit Level	
	> 5.0 mg/L	> 6.0 mg/L	
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	5.2 mg/L (WSR 37)	2.6 mg/L (CE) 3.7 mg/L (CF)	3.4 mg/L (WSR 1) 2.6 mg/L (WSR 2) 2.8 mg/L (WSR 3) 2.9 mg/L (WSR 4) 3.9 mg/L (WSR 4) 2.8 mg/L (WSR 33) 3.7 mg/L (WSR 36)
Possible reason for Action or Limit Level Non-compliance	operation inside the outfall ca	aisson	namely 1) dewatering pump
	trial of rockfill retrieval by adjusting the pipeline fixings Marine construction activities	s with contact with water: 1)	(1) Derrick barge assisted the ntake Shaft on-and-off while Derrick barge assisted the trial aft on-and-off while adjusting





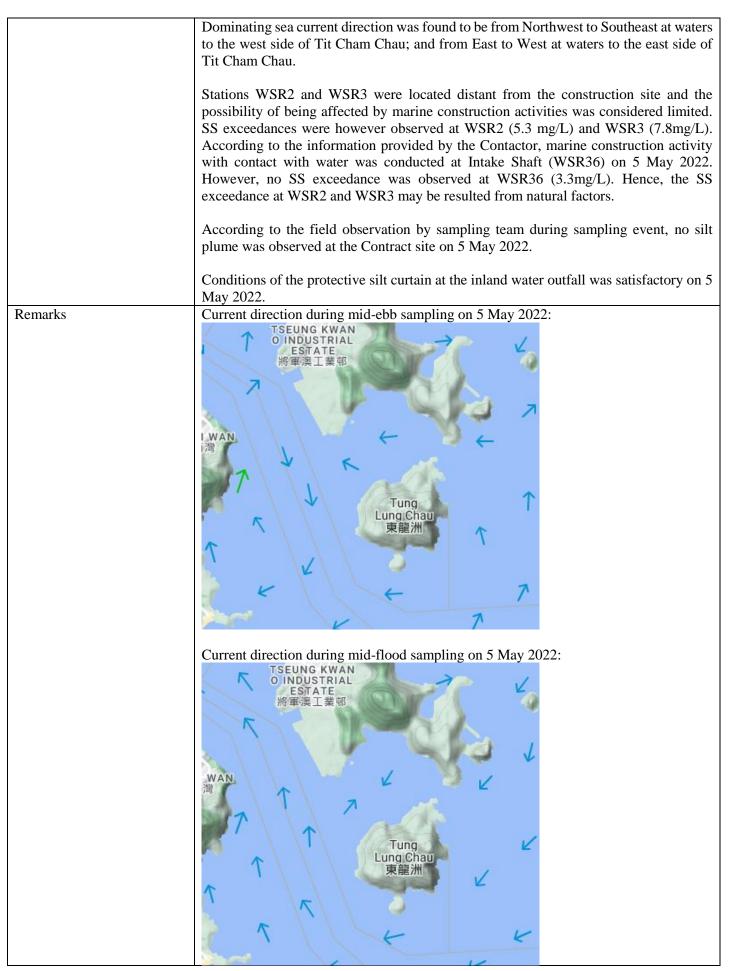




Incident Report on Action Level or Limit Level Non-Compliance

Project	Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant				
Date	5 May 2022 (Lab result received on 13 May 2022)				
Time	08:00-09:41 (Mid-Flood) and 12:35-16:05 (Mid-Ebb)				
	Mid-Flood				
Monitoring Location	WSR4 HONG KONG ISLAND Tai Tam Big Rove Asy	NF1 NF2 NF3 WSR3 WSR3 NF1 NF2 NF3 WSR3 Chau Chau			
Parameter	Suspended Solid (SS)	CF 0	Klicnetnes 1 Control Coston of Scenario Cutol Indicative Location of Scenario Cutol Indicative Location of Scenario Cutol		
Action & Limit Levels	Action Level	Limit Level			
	> 5.0 mg/L	> 6.0 mg/L			
Measurement Level	Impact Station(s) of Exceedance 5.8 mg/L (WSR 4)	Control Stations 3.0 mg/L (CE) 3.2 mg/L (CF)	Impact Station(s) without Exceedance 3.0 mg/L (WSR 1) 3.6 mg/L (WSR 2) 3.1 mg/L (WSR 3) 3.8 mg/L (WSR 36) 3.8 mg/L (WSR 36) 3.5 mg/L (WSR 37)		
Possible reason for Action or Limit Level Non-compliance	 operation inside the outfall c Intake Shaft Area: marine corockfill retrieval by suction p Marine construction activitier rockfill retrieval by suction p Marine vessels on 5 May 202 Derrick barge x1 (Intake N/A (Outfall Shaft) Dominating sea current direct 	aisson onstruction activities, namely pipe inside the Intake Shaft es with contact with water: pipe inside the Intake Shaft 22: e Shaft) etion was found to be from Sou	amely 1) dewatering pump 1) Derrick barge assisted the 1) Derrick barge assisted the utheast to Northwest at waters to Southwest at waters to the		

	Station WSR4 was located distant from the construction site and the possibility of being affected by marine construction activities was considered limited. SS exceedance was however observed at WSR4 (5.8 mg/L). According to the information provided by the Contactor, marine construction activity with contact with water was conducted at Intake Shaft (WSR36) on 5 May 2022. However, no SS exceedance was observed at WSR36 (3.8 mg/L) Hence, the SS exceedance at WSR4 may be resulted from natural factors. According to the field observation by sampling team during sampling event, no silt plume was observed at the Contract site on 5 May 2022.			
	May 2022.			
	Mid-H	Ebb		
Monitoring Location	WSR2, WSR3	Clear Water Bay	Image: Second	
D		0	Kilometres 1 2 Indicative Location of Submarine Outfal	
Parameter	Suspended Solid (SS)	T T	1	
Action & Limit Levels	Action Level	Limit L		
Measurement Level	> 5.0 mg/L	> 6.0 m Control Stations		
Weasurement Lever	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance	
	5.3 mg/L (WSR 2) 7.8 mg/L (WSR 3)	3.5 mg/L (CE) 5.0 mg/L (CF)	4.1 mg/L (WSR 1) 3.8 mg/L (WSR 4) 3.3 mg/L (WSR 16) 3.8 mg/L (WSR 33) 3.3 mg/L (WSR 36) 4.3 mg/L (WSR 37)	
Possible reason for Action or	 operation inside the outfall caisson Intake Shaft Area: marine construction activities, namely 1) Derrick barge assisted the rockfill retrieval by suction pipe inside the Intake Shaft Marine construction activities with contact with water: 1) Derrick barge assisted the rockfill retrieval by suction pipe inside the Intake Shaft Marine vessels on 5 May 2022: 			
Limit Level Non-compliance				
	 Derrick barge x1 (Intake N/A (Outfall Shaft) 	Snatt)		



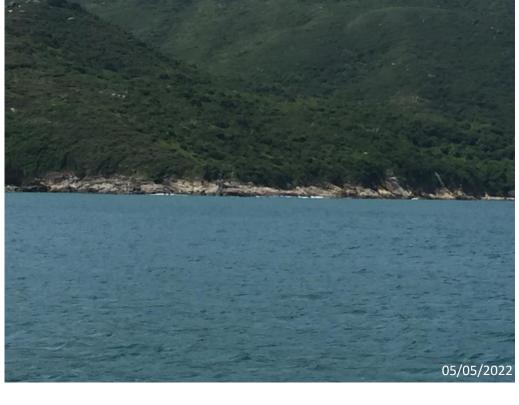


(Sourced from http://current.hydro.gov.hk/en/map.html)

Supporting Photo 1 (Sea Conditions at WSR2)

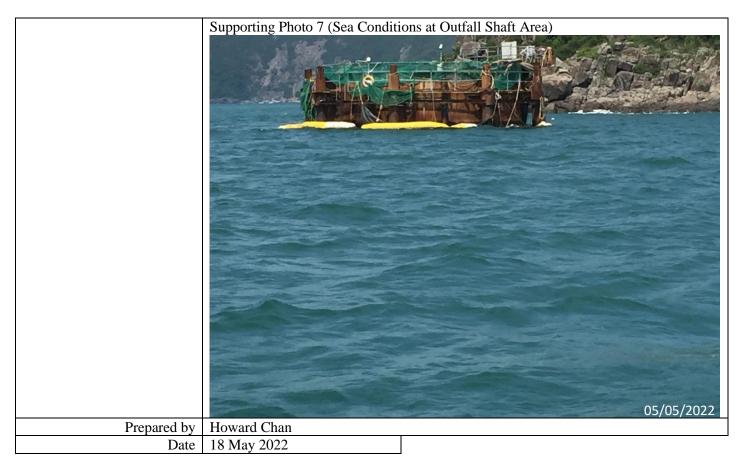






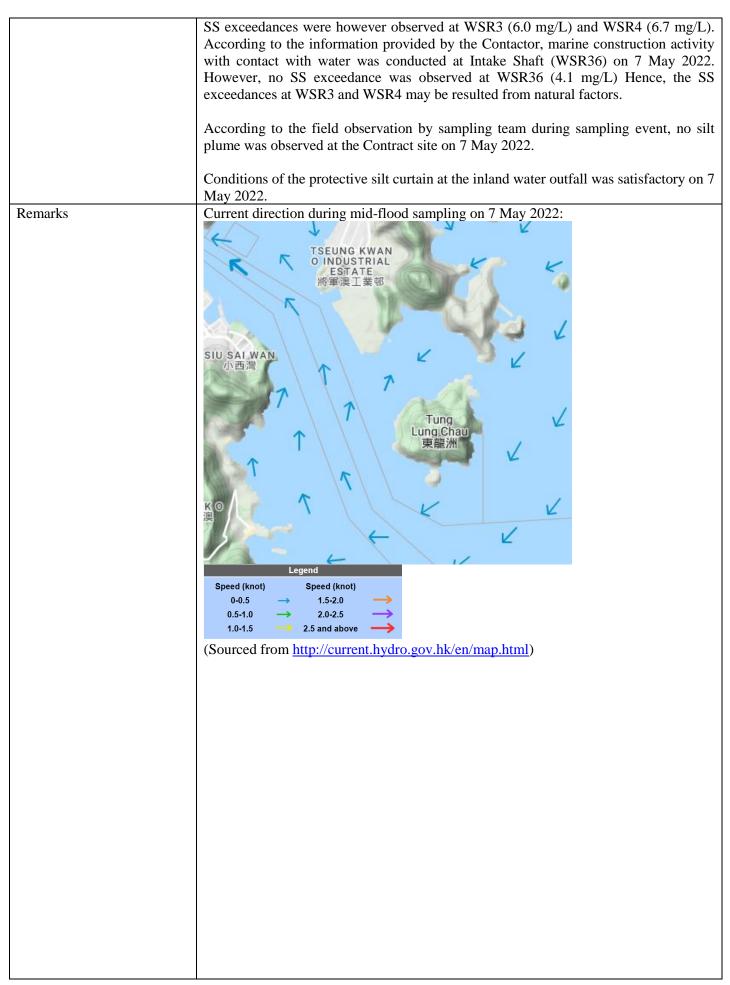


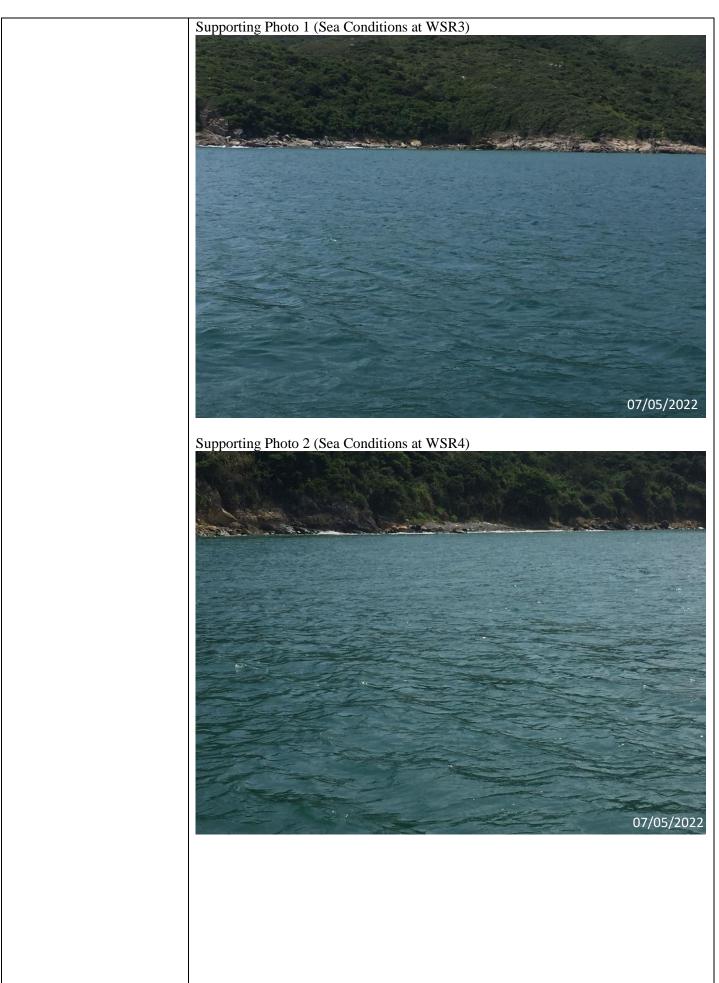


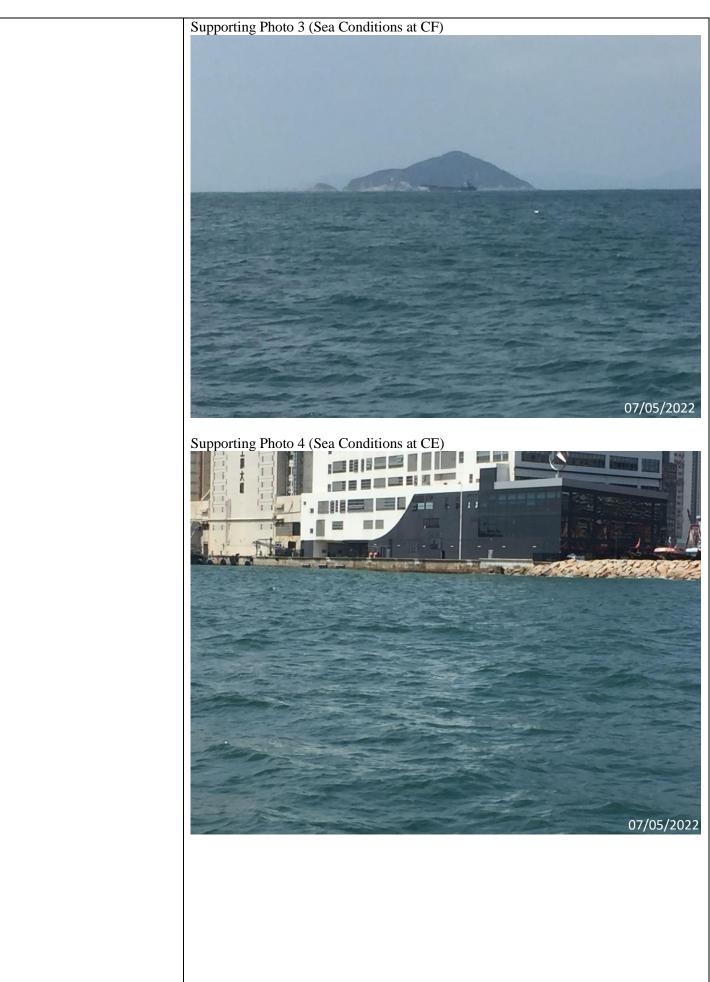


Incident Report on Action Level or Limit Level Non-Compliance

Project	Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant		
Date	7 May 2022 (Lab result received on 16 May 2022)		
Time	08:00-10:37 (Mid-Flood) and 14:07-17:37 (Mid-Ebb)		
Mid-Flood			
Monitoring Location	WSR3, WSR4	Clear Water Bay WSR3 WSR3 WSR3 WSR3 WSR4 WSR3 WSR4 WSR4 WSR4 WSR4 WSR4 WSR4 WSR4 WSR4	
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level Limit Level		
	> 5.0 mg/L	> 6.0 mg/L	
Measurement Level	Impact Station(s) of	Control Stations	Impact Station(s) without
	Exceedance		Exceedance
	6.0 mg/L (WSR 3) 6.7 mg/L (WSR 4)	3.7 mg/L (CE) 3.7 mg/L (CF)	4.3 mg/L (WSR 1) 4.5 mg/L (WSR 2)
			4.2 mg/L (WSR 16) 3.8 mg/L (WSR 33)
			4.1 mg/L (WSR 36)
			3.3 mg/L (WSR 37)
Possible reason for Action or Limit Level Non-compliance	Outfall Shaft Area: marine construction activities, namely 1) dewatering pump operation inside the outfall caisson		
	Intake Shaft Area: marine construction activities, namely 1) Derrick barge assisted the rockfill retrieval by suction pipe inside the Intake Shaft		
	Marine construction activities with contact with water: 1) Derrick barge assisted the rockfill retrieval by suction pipe inside the Intake Shaft		
	Marine vessels on 7 May 2022:		
	 Derrick barge x1 (Intake Shaft) N/A (Outfall Shaft) 		
	Dominating sea current direction was found to be from Southwest to Northeast at waters to the west side of Tit Cham Chau; and from Northeast to Southwest at waters to the east side of Tit Cham Chau.		
	Stations WSR3 and WSR4 were located distant from the construction site and the possibility of being affected by marine construction activities was considered limited.		

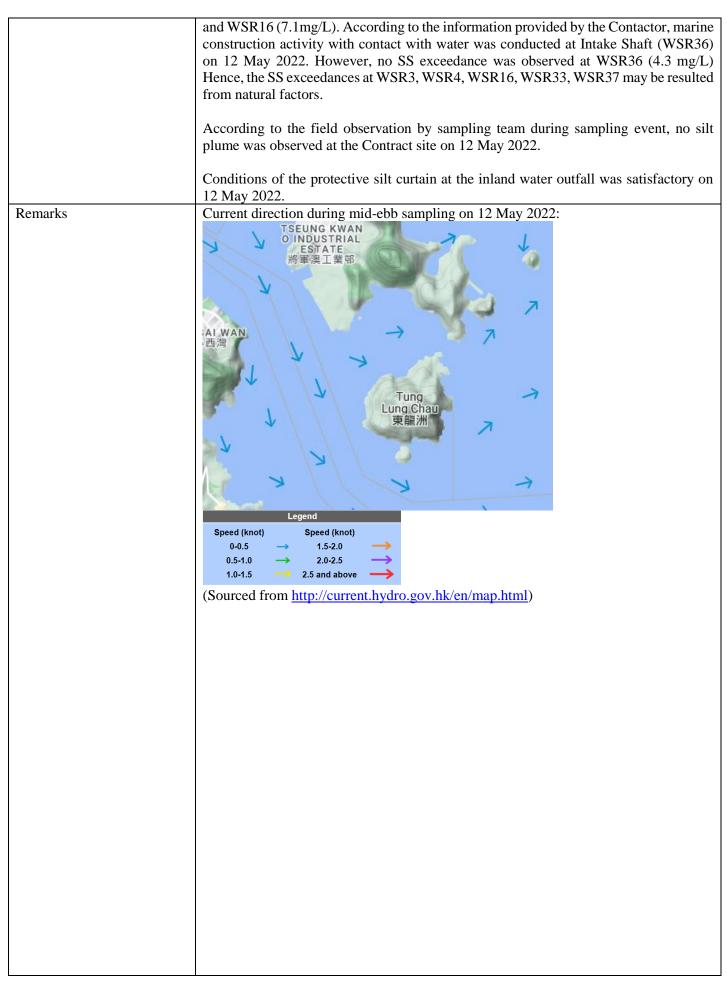


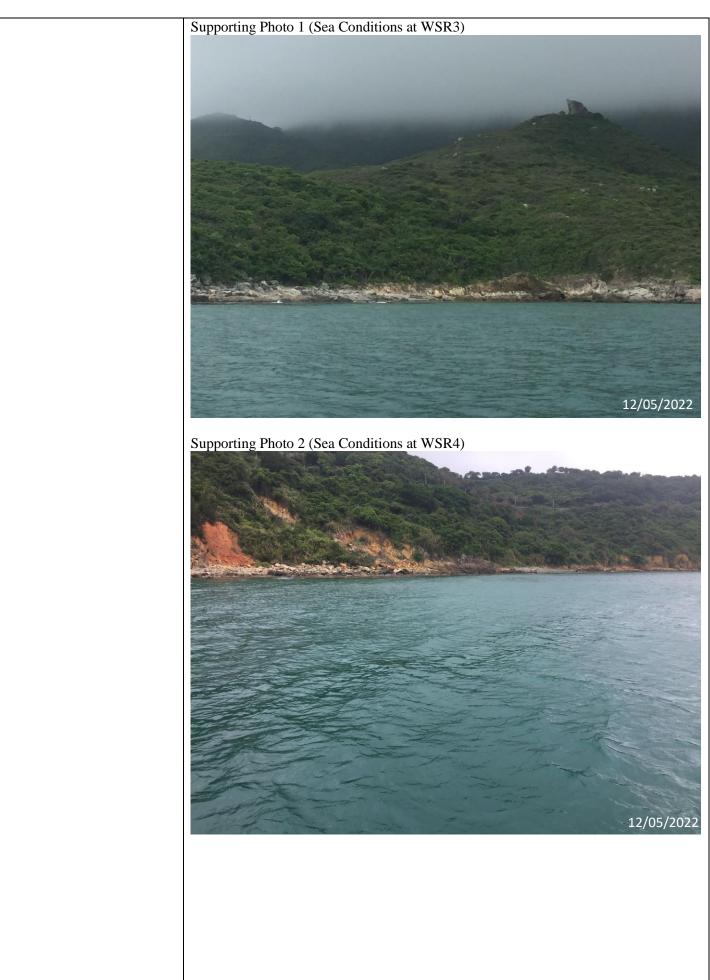


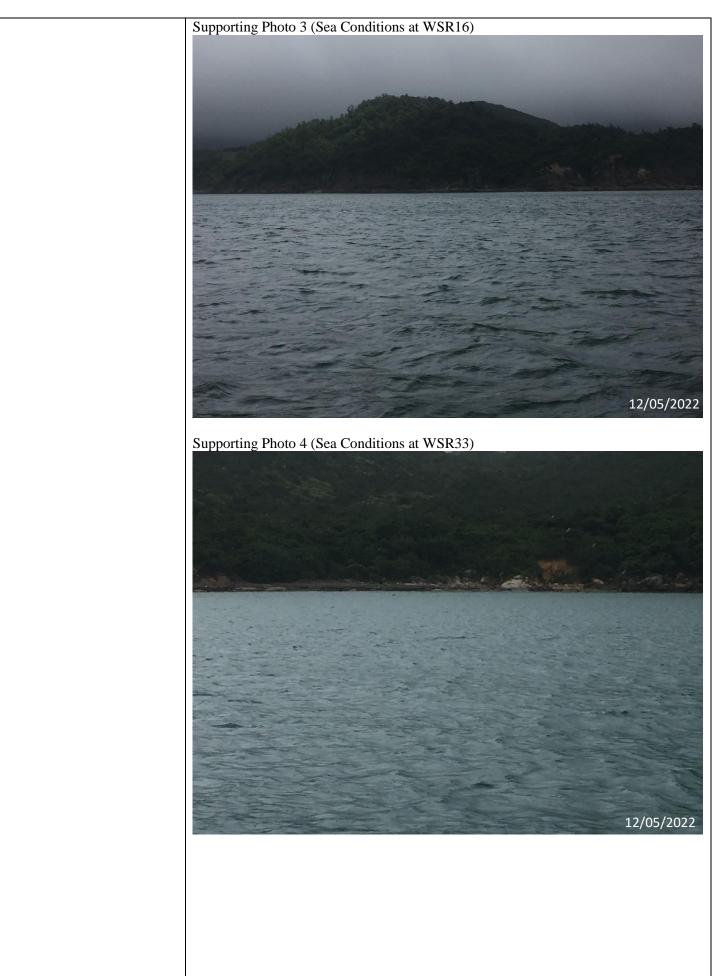


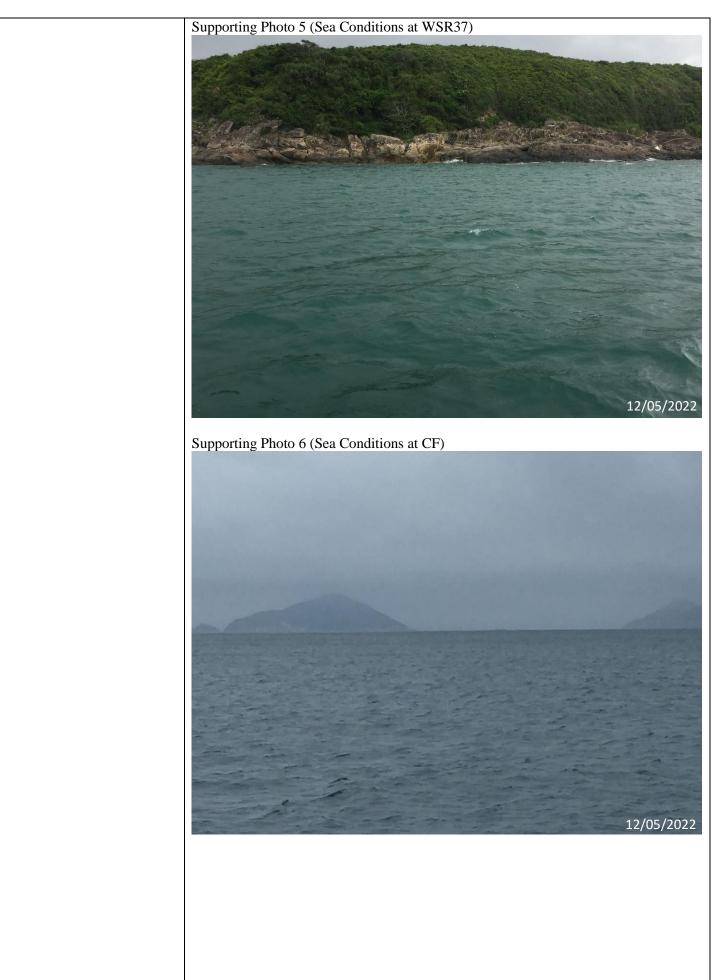


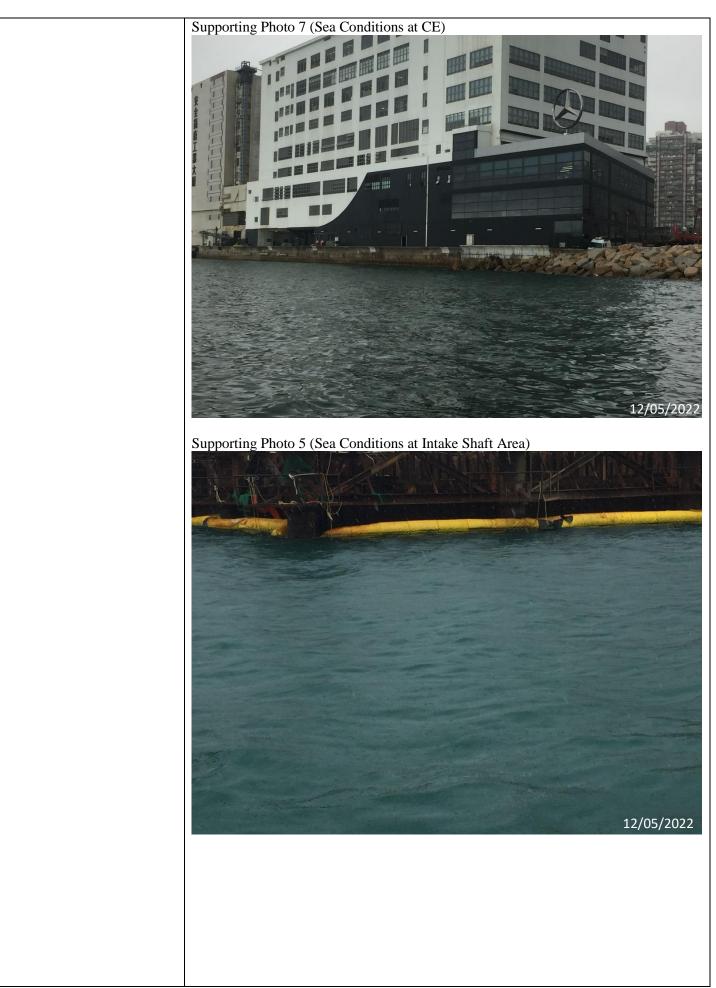
Project	Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant			
Date	12 May 2022 (Lab result received on 20 May 2022)			
Time	13:28-16:58 (Mid-Flood) and 08:04-11:34 (Mid-Ebb)			
	Mid-E			
Monitoring Location	WSR3, WSR4, WSR16, WSR33, WSR37			
	HONG KONG ISLAND Tai Tam	NF1 NF2 NF3 VISRO T	3	
	Big Wave Big Wave			
2		CF 0	Key Wear Outlandy Monitoring Station N N N N In In In Indicative Location of Sudmarine Outla Indicative Location of Sudmarine Outla	
Parameter	Suspended Solid (SS)	· · · · · ·		
Action & Limit Levels	Action Level	Limit Level		
	> 5.0 mg/L	> 6.0 mg/L		
Measurement Level	Impact Station(s) of	Control Stations	Impact Station(s) without	
	Exceedance		Exceedance	
	5.3 mg/L (WSR 3)	3.4 mg/L (CE)	3.5 mg/L (WSR 1)	
	5.3 mg/L (WSR 4) 7.1 mg/L (WSR 16)	7.3 mg/L (CF)	4.8 mg/L (WSR 2)	
	12.2 mg/L (WSR 10)		4.3 mg/L (WSR 36)	
	5.7 mg/L (WSR 37)			
	3.7 mg/L (WSK 37)			
Possible reason for Action or Limit Level Non-compliance	Outfall Shaft Area: marine construction activities, namely 1) dewatering pump operation inside the outfall caisson			
	Intake Shaft Area: marine construction activities, namely 1) Derrick barge assisted the rockfill retrieval by suction pipe inside the Intake Shaft			
	 Marine construction activities with contact with water: 1) Derrick barge assisted the rockfill retrieval by suction pipe inside the Intake Shaft Marine vessels on 12 May 2022: Derrick barge x1 (Intake Shaft) N/A (Outfall Shaft) 			
	 Dominating sea current direction was found to be from Northwest to Southeast at waters to the west side of Tit Cham Chau; and from West to East at waters to the east side of Tit Cham Chau. Stations WSR3, WSR4 and WSR16 were located distant from the construction site and the possibility of being affected by marine construction activities was considered limited. SS exceedances were however observed at WSR3 (5.3 mg/L), WSR4 (5.3mg/L) 			





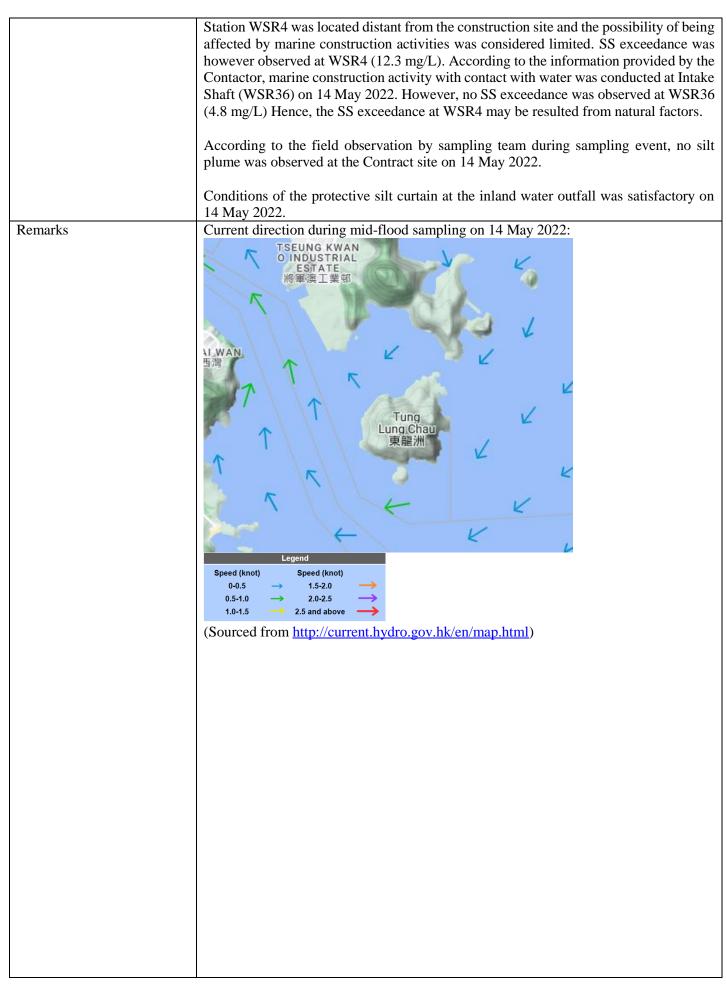


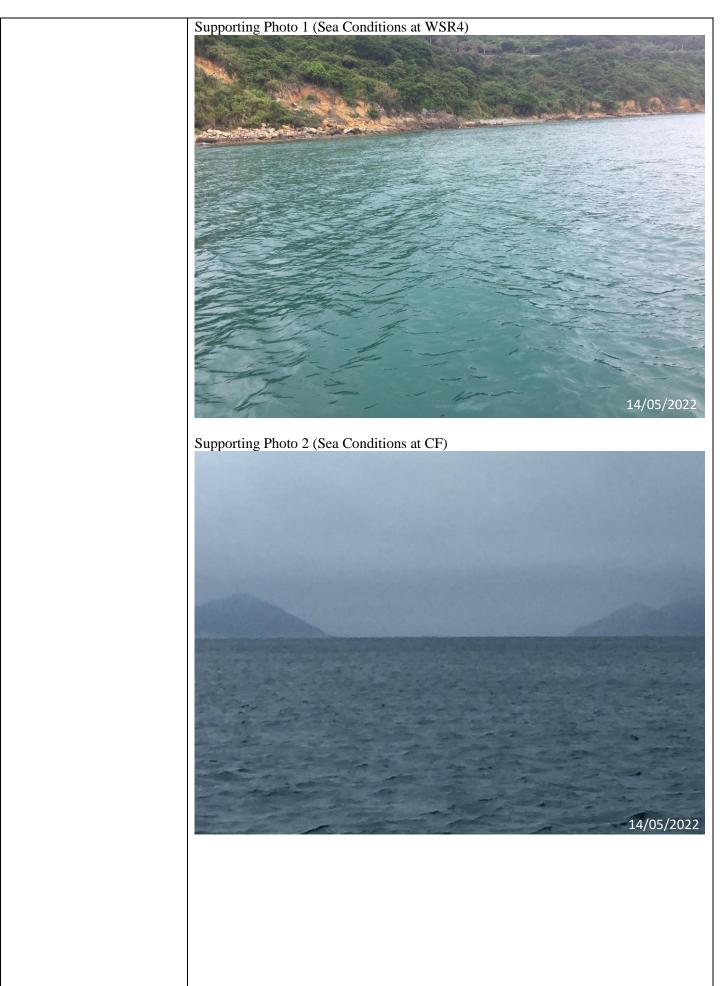


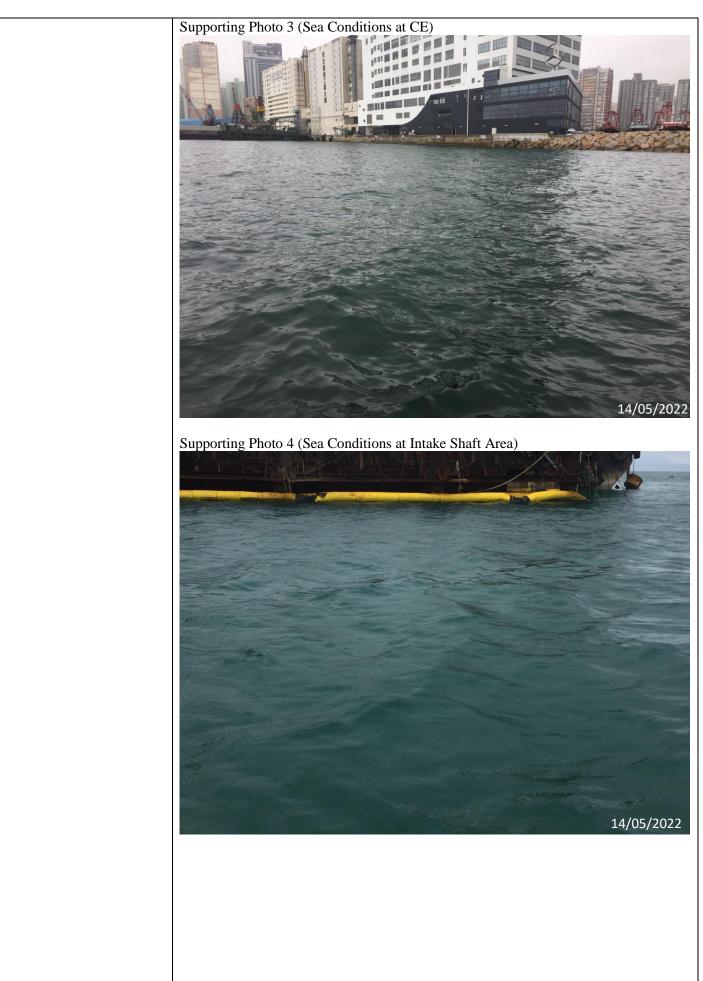


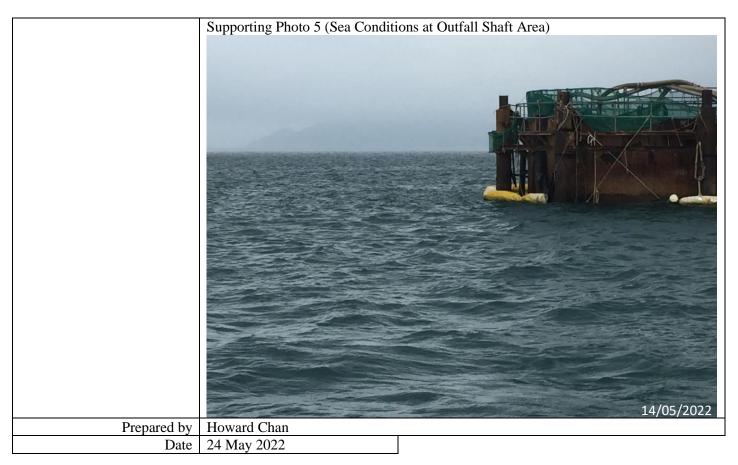


Project	Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant				
Date	14 May 2022 (Lab result received on 20 May 2022)				
Time	15:32-19:00 (Mid-Flood) and 09:13-12:43 (Mid-Ebb)				
	Mid-Flood				
Monitoring Location	WSR4	Clear Water Bay WSR3 WSR3 WSR3 WSR3 WSR3 WSR3 WSR3 WSR3			
	and the second	CF 0	IN KIIometres 1 2 Indicative Location of Submarine Outle		
Parameter	Suspended Solid (SS)				
Action & Limit Levels	Action Level	Limit Level			
	> 5.0 mg/L	> 6.0 mg/L			
Measurement Level	Impact Station(s) of Exceedance 12.3 mg/L (WSR 4)	Control Stations 7.2 mg/L (CE) 5.2 mg/L (CF)	Impact Station(s) without Exceedance 2.8mg/L (WSR 1) 2.6 mg/L (WSR 2) 4.1 mg/L (WSR 3) 3.1 mg/L (WSR 3) 5.3 mg/L (WSR 33) 4.8 mg/L (WSR 36) 3.2 mg/L (WSR 37)		
Possible reason for Action or Limit Level Non-compliance	 Outfall Shaft Area: marine construction activities, namely 1) dewatering pump operation inside the outfall caisson Intake Shaft Area: marine construction activities, namely 1) Derrick barge assisted the rockfill retrieval by suction pipe inside the Intake Shaft Marine construction activities with contact with water: 1) Derrick barge assisted the rockfill retrieval by suction pipe inside the Intake Shaft Marine vessels on 14 May 2022: Derrick barge x1 (Intake Shaft) N/A (Outfall Shaft) Dominating sea current direction was found to be from Southeast to Northwest at waters to the west side of Tit Cham Chau; and from Northeast to Southwest at waters to the east side of Tit Cham Chau. 				

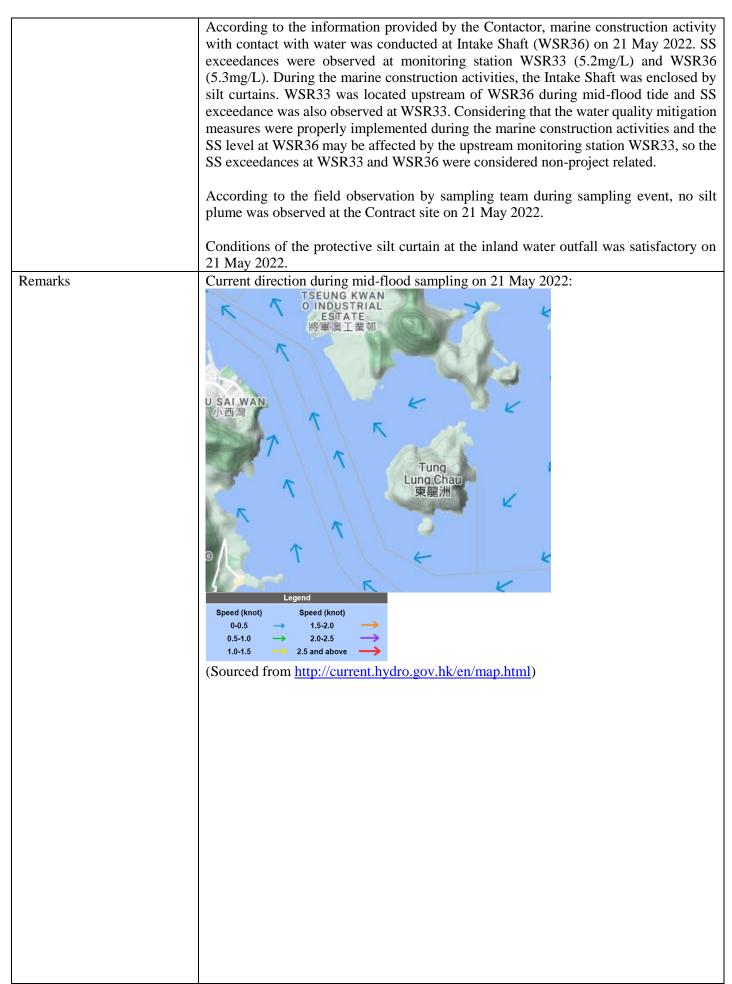


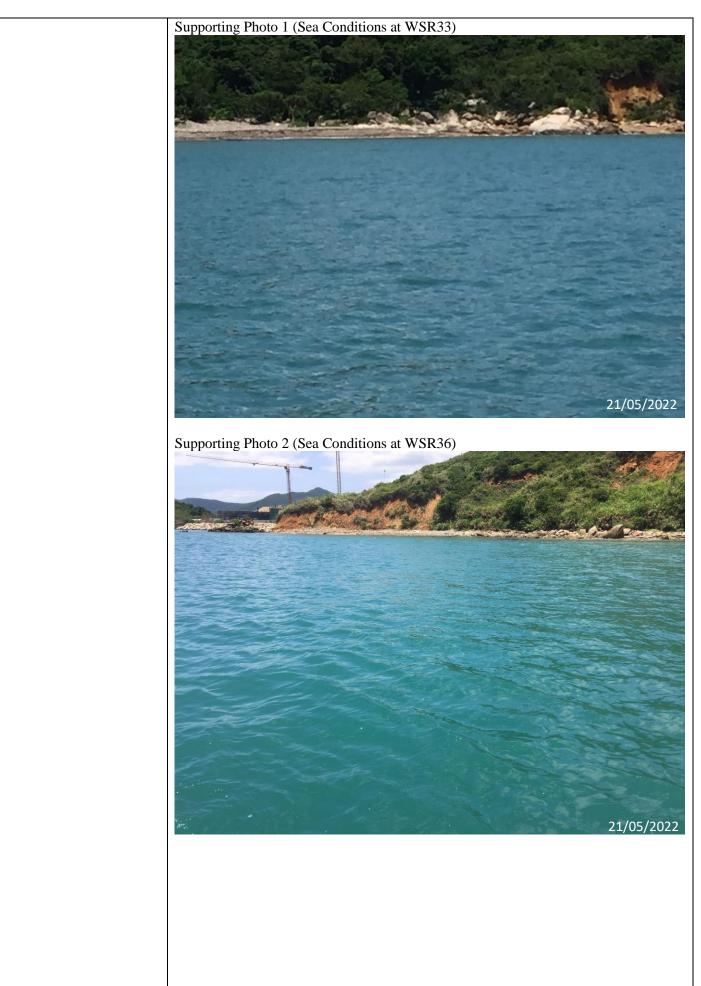


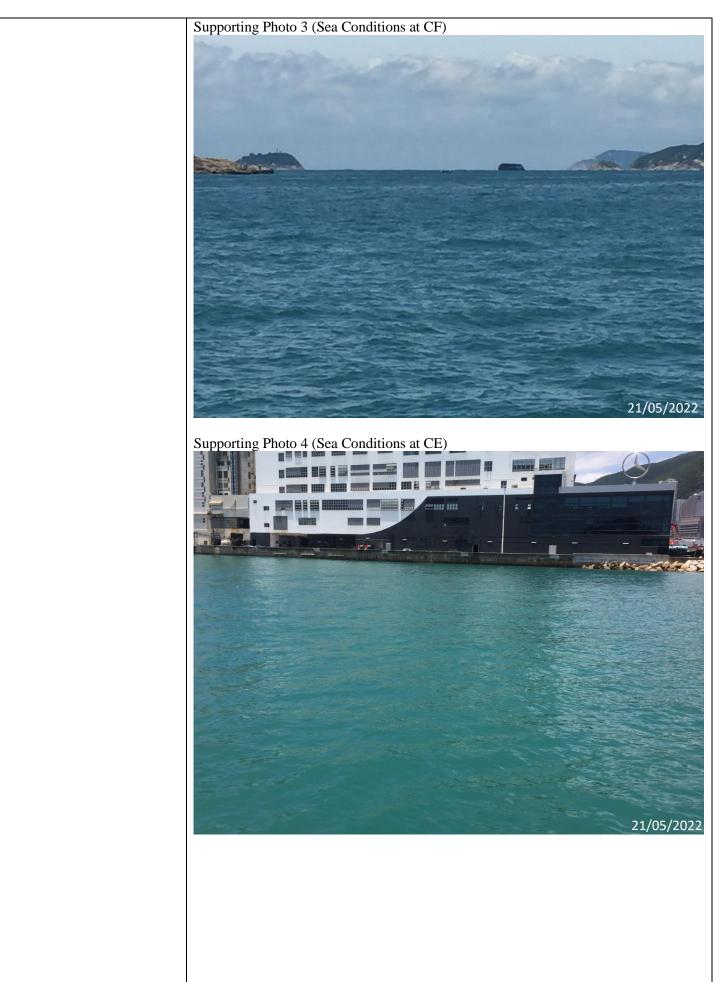


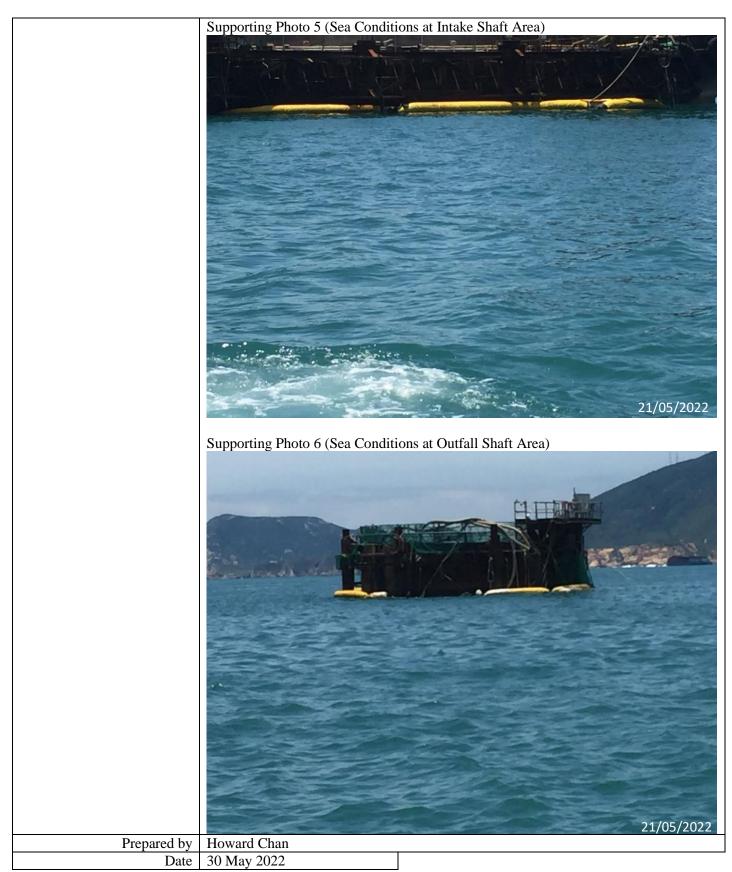


Project	Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant			
Date	21 May 2022 (Lab result received on 27 May 2022)			
Time	08:00-10:45 (Mid-Flood) and 15:00-18:30 (Mid-Ebb)			
	Mid-Fl			
Monitoring Location	WSR33, WSR36	Clear Water Bay WSR3 WSR3 WSR4 WSR3 WSR4 WSR3 WSR4 WSR5 WSR4 WSR5 WSR4 WSR5 WSR4 WSR5 WSR4 WSR5 WSR4 WSR5 WSR4 WSR5 WSR4 WSR5 WSR4 WSR5 WSR4 WSR5 WSR5 WSR5 WSR5 WSR5 WSR5 WSR5 WSR5	Image: Second	
		0	1 2 Indicative Location of Submarine Outfal	
Parameter	Suspended Solid (SS)			
Action & Limit Levels	Action Level	Limit Level		
	> 5.0 mg/L	> 6.0 mg/L		
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance	
	5.2 mg/L (WSR 33) 5.3 mg/L (WSR 36)	2.7 mg/L (CE) 3.3 mg/L (CF)	3.2 mg/L (WSR 1) 2.7 mg/L (WSR 2) 3.0 mg/L (WSR 3) 3.0 mg/L (WSR 4) 3.2 mg/L (WSR 16) 4.3 mg/L (WSR 37)	
Possible reason for Action or Limit Level Non-compliance	Outfall Shaft Area: marine construction activities, namely 1) dewatering pump operation inside the outfall caisson			
	Intake Shaft Area: marine construction activities, namely 1) Derrick barge assisted the rockfill retrieval by suction pipe inside the Intake Shaft 2) Material delivery			
	 Marine construction activities with contact with water: 1) Derrick barge assisted the rockfill retrieval by suction pipe inside the Intake Shaft Marine vessels on 21 May 2022: Derrick barge x2 (Intake Shaft) N/A (Outfall Shaft) 			
		tion was found to be from Sou a Chau; and from Northeast to		

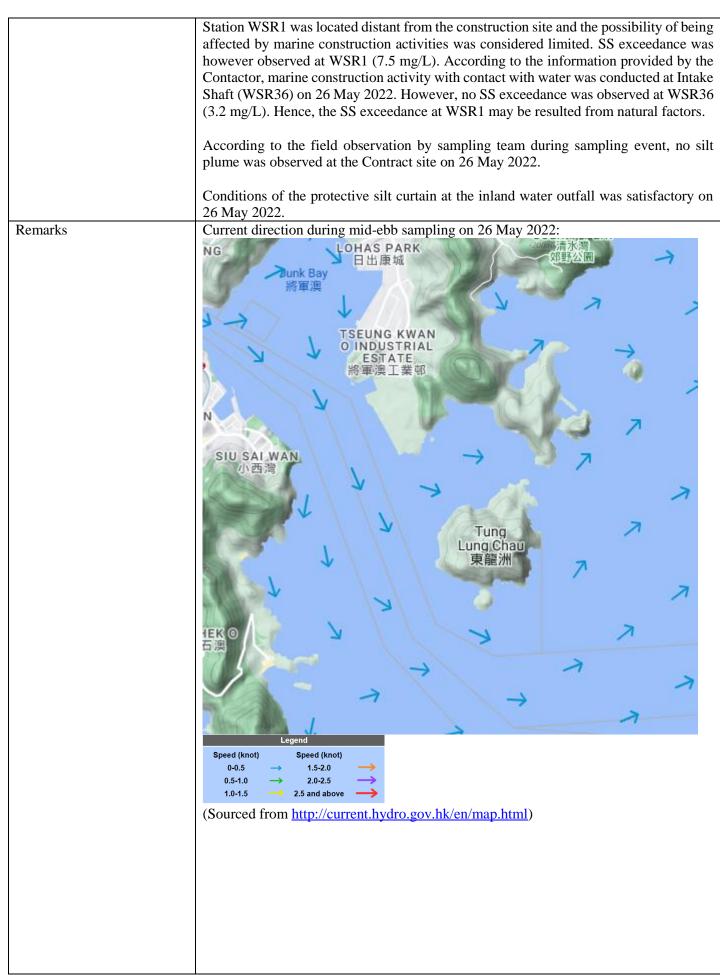






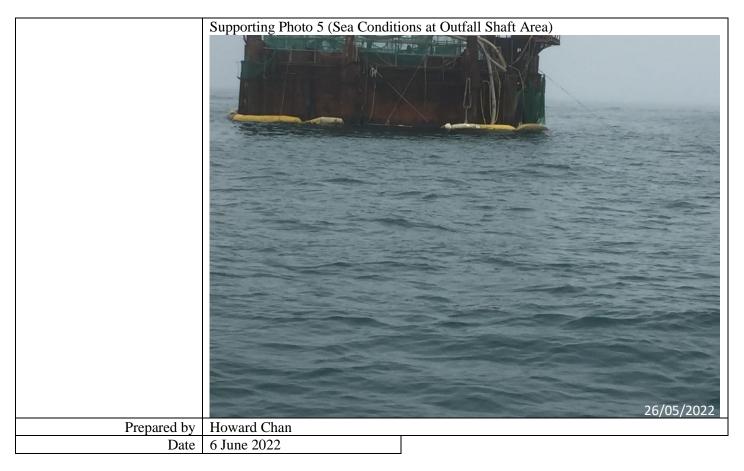


Project	Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant			
Date	26 May 2022 (Lab result received on 2 June 2022)			
Time	13:57-17:57 (Mid-Flood) and 08:10-11:40 (Mid-Ebb)			
Mid-Ebb				
Monitoring Location	WSR1 HONG KONG ISLAND Tai Tam	Clear Water Bay WSR3 WSR3 WSR3 WSR3 WSR3 WSR3 WSR3 WSR3	Key No	
		CF 0	Kilometres 1 2 	
Parameter	Suspended Solid (SS)			
Action & Limit Levels	Action Level	Limit L	evel	
	> 6.0 mg/L	> 6.5 m	g/L	
Measurement Level	Impact Station(s) of Exceedance 7.5 mg/L (WSR1)	Control Stations 5.0 mg/L (CE) 7.3 mg/L (CF)	Impact Station(s) without Exceedance 4.9 mg/L (WSR2) 4.0 mg/L (WSR3) 3.4 mg/L (WSR4) 3.7 mg/L (WSR4) 3.7 mg/L (WSR16) 2.8 mg/L (WSR33) 3.2 mg/L (WSR36) 5.7 mg/L (WSR37)	
Possible reason for Action or Limit Level Non-compliance	 Outfall Shaft Area: marine construction activities, namely 1) dewatering pump operation inside the outfall caisson Intake Shaft Area: marine construction activities, namely 1) Derrick barge working for the rockfill retrieval by suction pipe inside the Intake Shaft Marine construction activities with contact with water: 1) Derrick barge working for the rockfill retrieval by suction pipe inside the Intake Shaft Marine vessels on 26 May 2022: Derrick barge x1 (Intake Shaft) N/A (Outfall Shaft) Dominating sea current direction was found to be from Northwest to Southeast at waters to the west side of Tit Cham Chau; and from Southwest to Northeast at waters to the east side of Tit Cham Chau. 			

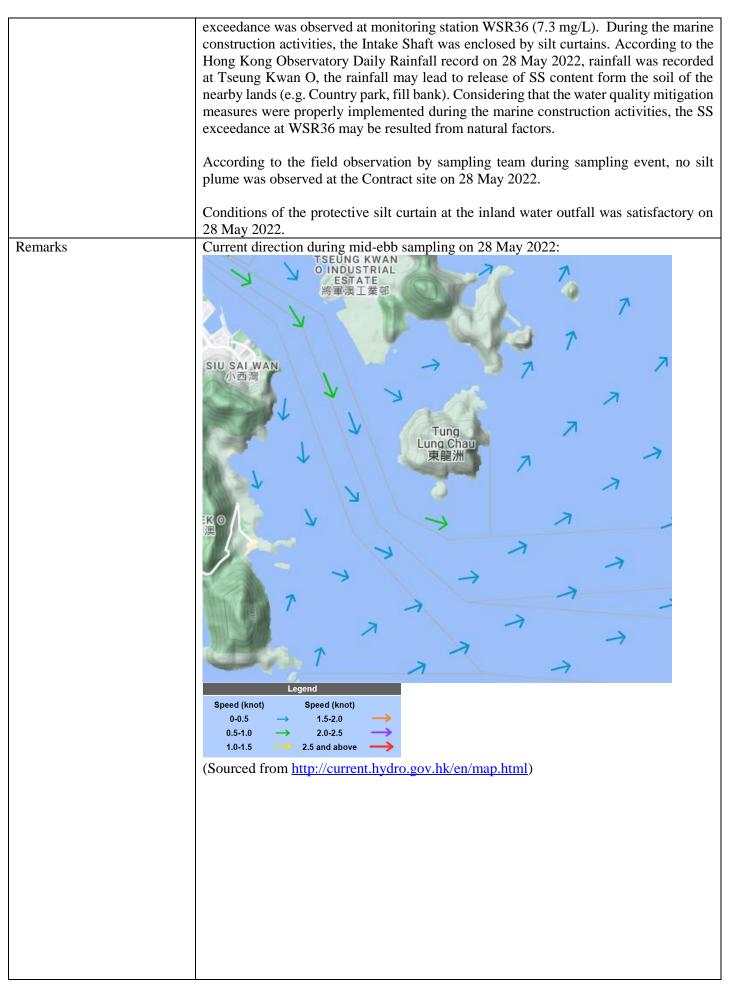




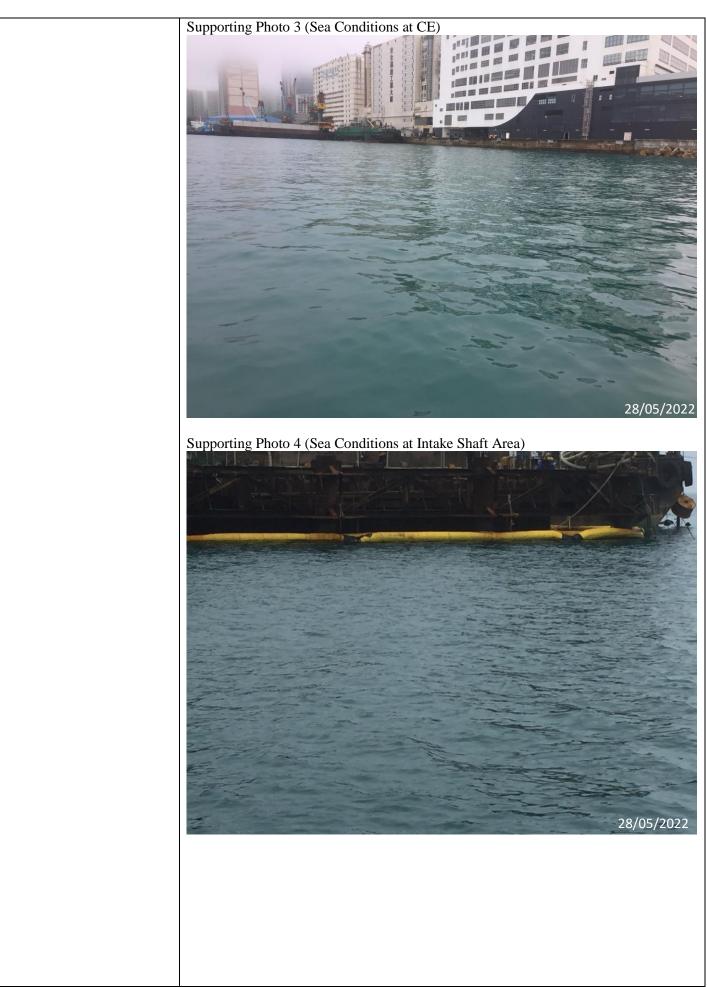


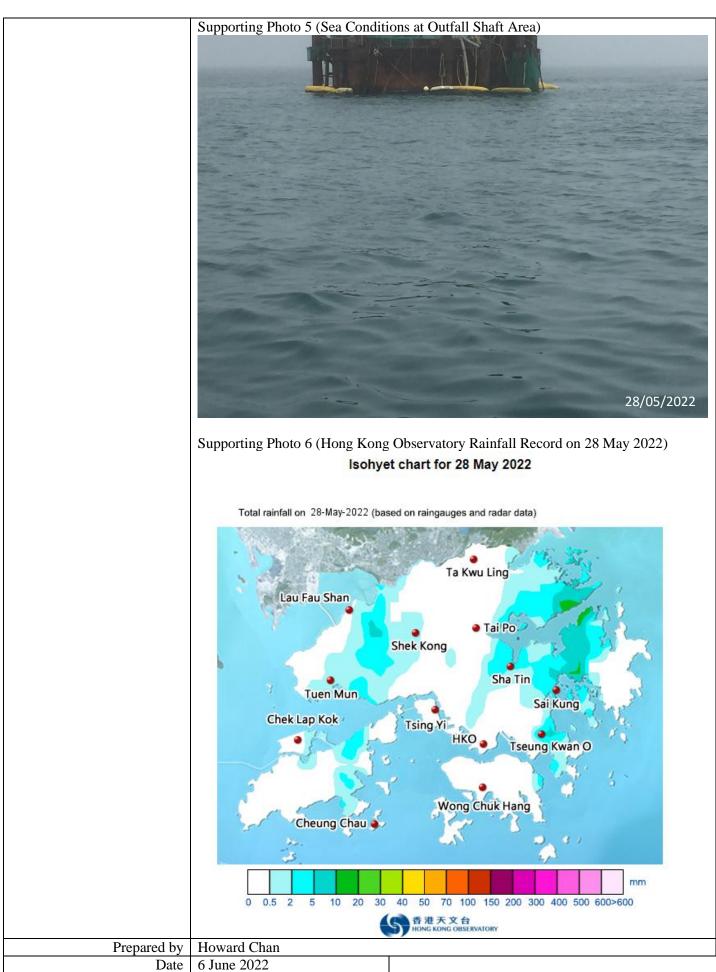


Project	Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant			
Date	28 May 2022 (Lab result received on 2 June 2022)			
Time	15:52-19:00 (Mid-Flood) and 09:27-12:57 (Mid-Ebb)			
	Mid-Ebb			
Monitoring Location	WSR36 HONG KONG ISLAND Tai Tam	NSR3 WSR37 NFT NF2 NF3 VSR3 VSR4 VSR3 VSR4 VSR3 VSR4 VSR3 Chau		
Parameter	Suspended Solid (SS)	¢F 0	Klometres 2 Indiative Location of Seavetine Outsi	
Action & Limit Levels	Action Level	Limit Level		
	> 7.2 mg/L	> 7.8 mg/L		
Measurement Level	Impact Station(s) of	Control Stations	Impact Station(s) without	
	Exceedance		Exceedance	
	7.3 mg/L (WSR36)	6.0 mg/L (CE) 4.3 mg/L (CF)	4.0 mg/L (WSR1) 3.3 mg/L (WSR2) 5.3 mg/L (WSR3) 6.7 mg/L (WSR4) 6.0 mg/L (WSR16) 5.2 mg/L (WSR33) 5.3 mg/L (WSR37)	
Possible reason for Action or		e construction activities, na		
Limit Level Non-compliance	 operation inside the outfall caisson Intake Shaft Area: marine construction activities, namely 1) Derrick barge working for the rockfill retrieval by suction pipe inside the Intake Shaft Marine construction activities with contact with water: 1) Derrick barge working for the rockfill retrieval by suction pipe inside the Intake Shaft Marine vessels on 28 May 2022: Derrick barge x1 (Intake Shaft) N/A (Outfall Shaft) Dominating sea current direction was found to be from Northwest to Southeast at waters to the west side of Tit Cham Chau; and from Southwest to Northeast at waters to the east side of Tit Cham Chau. According to the information provided by the Contactor, marine construction activity with contact with water was conducted at Intake Shaft (WSR36) on 28 May 2022, SS 			









Project	Design, Build and Operate F	irst Stage of Tseung Ky	van O Desalination Plant	
Date	Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant 31 May 2022 (Lab result received on 7 June 2022)			
Time	16:43-19:00 (Mid-Flood) and 11:08-14:48 (Mid-Ebb)			
Time	Mid-Flood			
Monitoring Location	HILL I	Visited Visite		
Parameter	Suspended Solid (SS)	CF 0	Key Wither Quality Monitoring Station Killenometres 1 2 Key Mark Alape migligible works killenometres 1 2	
Action & Limit Levels	Action Level	Limit L	aval	
Action & Limit Levels	> 11.4 mg/L	> 12.4 1		
Measurement Level	Impact Station(s) of Exceedance 12.3 mg/L (WSR 37)	Control Stations 8.5 mg/L (CE) 9.5 mg/L (CF)	Impact Station(s) without Exceedance 11.0 mg/L (WSR 1) 8.8 mg/L (WSR 2) 9.2 mg/L (WSR 3) 9.2 mg/L (WSR 4) 10.0 mg/L (WSR 4) 10.0 mg/L (WSR 33) 10.8 mg/L (WSR 36)	
Possible reason for Action or Limit Level Non-compliance	 Outfall Shaft Area: marine construction activities, namely 1) dewatering pump operation inside the outfall caisson Intake Shaft Area: marine construction activities, namely 1) Derrick barge working for the rockfill retrieval by suction pipe inside the Intake Shaft Marine construction activities with contact with water: 1) Derrick barge working for the rockfill retrieval by suction pipe inside the Intake Shaft Marine vessels on 31 May 2022: Derrick barge x1 (Intake Shaft) N/A (Outfall Shaft) Dominating sea current direction was found to be from Southeast to Northwest at waters to the west side of Tit Cham Chau; and from Northeast to Southwest at waters to the east side of Tit Cham Chau. 			

	According to the information provided by the Contactor, marine construction activity with contact with water was conducted at Intake Shaft (WSR36) and no marine construction activity with contact with water was conducted at Outfall Shaft (WSR37) on 31 May 2022. SS exceedance was observed at WSR37 (12.3mg/L). However, no SS exceedance was observed at WSR36 (11.0 mg/L) Hence, the SS exceedance at WSR37 may be resulted from natural factors. According to the field observation by sampling team during sampling event, no silt plume was observed at the Contract site on 31 May 2022.			
	Conditions of the protective silt curtain at the inland water outfall was satisfactory on			
	31 May 2022. Mid-Ebb			
Monitoring Location	WIId- WSR3	EDD		
	HONG KONG ISLAND Tai Tam	WSRJ NF1 NF2 NF3	Clear Water Bay WSRI3 SRI9 WSRI9 Ung Chau Chau Chau Chau	Image: Second
Parameter	Suspended Solid (SS)			
Action & Limit Levels	Action Level		Limit Level	
	> 14.0 mg/L		> 15.2 mg/L	
Measurement Level	Impact Station(s) of	Control Stati	ions	Impact Station(s) without
	Exceedance 14.7 mg/L (WSR 3)	11.7 mg/L (CE) 13.3 mg/L (CF)		Exceedance 11.3 mg/L (WSR 1) 11.7 mg/L (WSR 2) 11.3 mg/L (WSR 4) 9.3 mg/L (WSR 16) 12.5 mg/L (WSR 33) 9.8 mg/L (WSR 36) 9.7 mg/L (WSR 37)
Possible reason for Action or Limit Level Non-compliance) Derrick barge working for
	 Marine construction activities with contact with water: 1) Derrick barge working for the rockfill retrieval by suction pipe inside the Intake Shaft Marine vessels on 31 May 2022: Derrick barge x1 (Intake Shaft) N/A (Outfall Shaft) 			

