

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: HKWSD202/50/107273

Date: 28 April 2021

Attention: Mr W K Lau

BY EMAIL & POST (email: simon wk lau@wsd.gov.hk)

Dear Sirs

Agreement No. CE 5/2019 (EP) Independent Environmental Checker for First Stage of Tseung Kwan O Desalination Plant – Investigation Re-Verification of Monthly EM&A Report No.13 (March 2021)

We refer to email of 27 April 2021 attaching the revised Monthly EM&A Report No.13 (March 2021) for the captioned project prepared by the ET.

We have no further comments and hereby verify the revised Monthly EM&A Report No.13 (March 2021) 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/CYYR/lsmt







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Contract No. 13/WSD/17

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

Monthly EM&A Report No.13 (Period from 1 March to 31 March 2021)

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А	First Issue for Comments	14 April 2021



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

CONTENTS

Exe	cutive Summary1
1.	Basic Project Information
2.	Noise
3.	Water Quality10
4.	Waste22
5.	Landfill Gas Monitoring24
6.	SUMMARY OF MONITORING EXCEEDANCE, COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTIONS
7.	EM&A Site Inspection
8.	Future Key Issues
9.	Conclusions and Recommendations

A	Marten
Appendix A	Master Programme

- Appendix B Overview of Desalination Plant in Tseung Kwan O
- Appendix C Summary of Implementation Status of Environmental Mitigation
- Appendix D Impact Monitoring Schedule of the Reporting Month
- Appendix E Event/Action Plan for Noise Exceedance
- Appendix F Noise Monitoring Equipment Calibration Certificate (Blank)
- Appendix G Event/Action Plan for Water Quality Exceedance
- Appendix H Waste Flow Table
- Appendix I Site Inspection Proforma
- Appendix J Complaint Log
- Appendix K Impact Monitoring Schedule of Next Reporting Month
- Appendix L Water Quality Monitoring Data
- Appendix M HOKLAS Laboratory Certificate
- Appendix N Water Quality Equipment Calibration Certificate
- Appendix 0 Exceedance Report(s)



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 Project.
- A2. In accordance with the Environmental Monitoring and Audit (EM&A) Manual for the Project, 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 Project.
- A3. This is the 13th Monthly EM&A Report, prepared by ASCL, for the Project 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 March 2021 to 31 March 2021.
- 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 Project included the followings:

- Land Survey;
- Combined Shaft foundation construction
- 132kV substation internal finishing and E&M installation;
- Construction of ActiDAFF perimeter wall and water tank;
- Construction of RO/electrical building ground floor slab;
- Construction for Product Water Storage Tank perimeter wall and footing of electrical building;
- Administration Building footing construction;
- Construction of Main electrical and chiller plant building footing;
- Construction of post treatment building footing;
- Pipe piles driven and ELS construction works at Intake Shaft;
- Cable drawpit construction;
- Excavation and laying yard piping;
- Construction of Combined Shaft permanent structure
- Preparation works for marine construction activities



A6. The major environmental impacts brought by the above construction works include:

- Construction dust and noise generation from construction works, excavation works, ELS installation works and pipe pile driven works
- Waste generation from the construction activities
- Impact on water quality from marine construction works
- A7. The key environmental mitigation measures implemented for the Project 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
 - Sorting and storage of general refuse and construction waste
 - Deployment of temporary silt curtain in the area where preparation works for construction works were conducted

SUMMARY OF EXCEEDANCE & INVESTIGATION & FOLLOW-UP

- A8. No noise monitoring was conducted during the reporting period since there are no projectrelated construction activities undertaken within a radius of 300m from the monitoring locations. No project-related exceedance of the Action Level was recorded during the reporting period.
- A9. The EM&A works for water quality were conducted during the reporting period in accordance with the EM&A Manual.
- A10. Five (5) of the general water quality monitoring results of suspended solids (SS) obtained had exceeded the Action Level. One (1) 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 exceedance of SS on 25/3 and 27/3 was concluded to be unrelated to the project as detailed in the Incident Reports on Action Level or Limit Level Non-compliance along with supporting materials in **Appendix O**.



A13.Weekly site inspections of the construction work by ET were carried out on 2, 9, 16, 23 and 30 March 2021 to audit the mitigation measures implementation status. Bi-weekly joint site inspection was carried out on 09 & 30 March 2021 by ET and IEC. Observations 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

- A14.No project-related environmental complaint was received during the reporting period.
- A15.Neither notifications of summons nor prosecution was received for the Project.

REPORTING CHANGE

A16. 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

- A17.Key activities anticipated in the next reporting period for the Project will include the following:
 - Land Survey;
 - Construction of ActiDAFF perimeter wall and water tank;
 - Construction of RO/electrical building ground floor slab and columns;
 - Construction for Product Water Storage Tank perimeter wall and footing of electrical building;
 - Backfilling around Product Water Storage Tank;
 - Construction of post treatment building footing;
 - Construction of pile cap of Administration Building;
 - Construction of R.C footing of Inspection Gallery;
 - Construction of Main electrical and chiller plant building (1/F);
 - Marine Dredging at Outfall Shaft;
 - Cable drawpit construction;
 - Excavation and laying yard piping;
 - Construction R.C. Wall of Combined Shaft;
 - Removal of ELS strut layer W4 & W5 of Combined Shaft
 - Wan Po Road Sewage Works TTA, excavation and laying HDPE pipe

A18. The major environmental impacts brought by the above construction works will include:

- Construction dust and noise generation from excavation, foundation and ELS installation works, pipe mainlaying works and construction works
- Waste generation from construction activities
- Impact on water quality from marine construction works

A19. 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
- Sorting and storage of general refuse and construction waste
- Deployment of silt curtain in the area where marine construction works will be conducted



1. BASIC PROJECT INFORMATION

1.1. BACKGROUND

The Jardine Engineering Corporation, Limited, China State Construction Engineering (Hong Kong) Limited and Acciona Agua, S.A. Trading As AJC Joint Venture (AJCJV) is contracted to carry out the Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant (DPTKO) under Contract No. 13/WSD/17 (the Project).

Acuity Sustainability Consulting Limited (ASCL) is commissioned by AJCJV to undertake the Environmental Team (ET) services as required and/or implied, both explicitly and implicitly, in the Environmental Permit (EP), Environmental Impact Assessment Report (EIA Report) (Register No. AEIAR-192/2015) and Environmental Monitoring and Audit Manual (EM&A Manual) for the Project; and to carry out the Environmental Monitoring and Audit (EM&A) programme in fulfillment of the EIA Report's EM&A requirements and Contract No. 13/WSD/17 Specification requirements.

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 Project.

1.2. THE REPORTING SCOPE

This is the 13th Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 March to 31 March 2021.

1.3. PROJECT ORGANIZATION

The Project Organization structure for Construction Phase is presented in Figure 1.1.

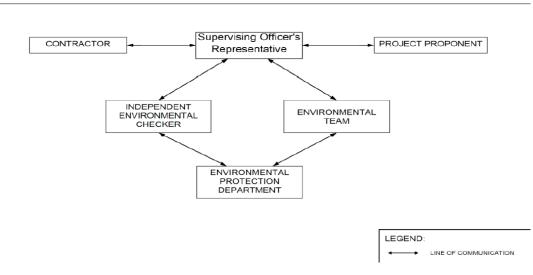


Figure 1.1Project Organization Chart



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

Party	Position	Name	Telephone no.
Project Proponent	SE/CM2	Benny Lam	2634-3573
	Project Manager	Christina Ko	2608-7302
Supervising Officer (Binnies)	Chief Resident Engineer	Roger Wu	6343-1002
The Jardine Engineering Corporation,	Project Manager	Stephen Yeung	2807-4665
Limited, China State Construction 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

Table 1.1 Contact Details of Key Personnel

1.4. SUMMARY OF CONSTRUCTION WORKS

Details of the major construction activities undertaken in this reporting period are shown as below. The construction programme is presented in **Appendix A**.



Key activities carried out in this reporting period for the Project included the following:

- Land Survey;
- Combined Shaft foundation construction
- 132kV substation internal finishing and E&M installation;
- Construction of Acidify perimeter wall and water tank;
- Construction of RO/electrical building ground floor slab;
- Construction for Product Water Storage Tank perimeter wall and footing of electrical building;
- Administration Building footing construction;
- Construction of Main electrical and chiller plant building footing;
- Construction of post treatment building footing;
- Pipe piles driven and ELS construction works at Intake Shaft;
- Cable drawpit construction;
- Excavation and laying yard piping;
- Construction of Combined Shaft permanent structure
- Preparation works for marine construction activities

1.5. SUMMARY OF ENVIRONMENTAL STATUS

A summary of the valid permits, licences, and/or notifications on environmental protection for this Project 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	Remarks
Notification			
Environmental Permit	FEP – 01/503/2015/A	Throughout the	
		Contract	
Notification of	Ref. No.: 451539	30/12/2019 -	
Construction Works		30/03/2023	
under the Air Pollution			
Control (Construction			
Dust) Regulation (Form			
NA)			
Wastewater Discharge	WT00035775-2020	24/07/2020 -	
Licence		31/07/2025	
Chemical Waste	5213-839-A2987-01	Throughout the	
Producer Registration		Contract	
Construction Noise	GW-RE0784-20	01/10/2020 -	
Permit (24 hours)		31/03/2021	
Billing Account for	7036276	Throughout the	
Disposal of		Contract	
Construction Waste			



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

Table 1.3	Summary of Status for Key Environmental Aspects under the EM&A Manual
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Parameters	Status
Water Quality	
Baseline Monitoring under EM&A	The baseline water quality monitoring was conducted
Manual	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 Monitoring	On-going
Plan	
Environmental Audit	
Site Inspection covering Measures of Air	On-going
Quality, Noise Impact, Water Quality,	
Waste, Ecological Quality, Fisheries,	
Landscape and Visual	

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.

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 Project during the reporting period is provided in **Appendix C**.



2. Noise

2.1. MONITORING REQUIREMENTS

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.

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 Leq, L10 and L90 levels recorded at each monitoring station between 0700 and 1900 on normal weekdays.

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 project-related construction activities undertaken within a radius of 300m from the monitoring stations.

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 closet monitoring station NSR4 to the works location.

Impact noise monitoring will be conducted weekly in the reporting period between 0700-1900 on normal weekdays. No construction works were carried out during 1900-0700 in all days or any time on Sundays or general holidays during the reporting period.

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)	$\begin{array}{l} Continuously in \\ L_{eq \; 5min}/L_{eq \; 30min} \left(average \\ of \; 6 \; consecutive \; L_{eq \; 5min} \right) \end{array}$	L _{eq 30min} L _{10 30min} & L90 30min

 Table 2.1 Noise Monitoring Parameters, Time, Frequency and Duration

2.2. MONITORING LOCATIONS

The monitoring locations should normally be 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.

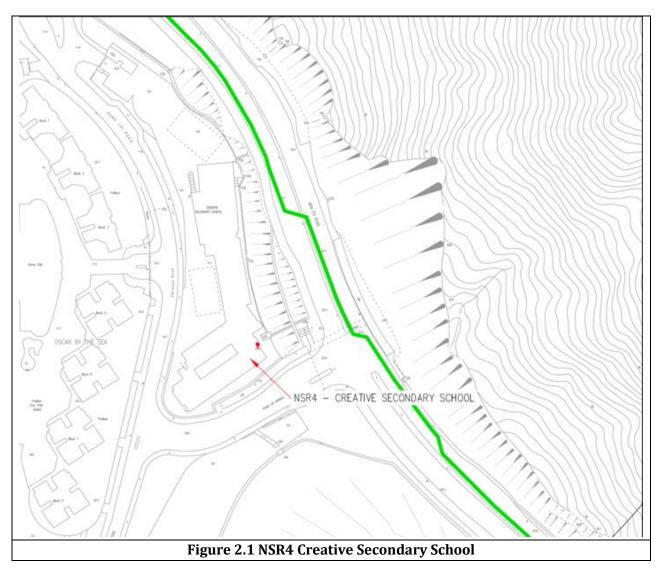
According to the environmental findings detailed in the EIA report and Baseline Monitoring Report, the designated locations for the construction noise monitoring are listed in **Table 2.2** below.



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

Table	2.2	Noise	Sensitive	Receivers
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The monitoring locations should normally be 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. Three noise monitoring locations for impact monitoring at the nearby sensitive receivers are shown in **Figure 2.1-2.3**.









2.3. IMPACT MONITORING METHODOLOGY

Integrated sound level meter shall be used for the noise monitoring. The meter shall be in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be 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.

Noise measurements shall not be 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.

Equipment	Brand and Model	Detection Limit
Sound Level Meter	Nti XL2	30-130 dB(A)
Sound Level Meter Calibrator	Rion NC-74	Nil
Pocket Wind Meter Anemometer	Kestrel 1000 Wind Meter	Nil

Table 2.3 Impact Noise Monitoring Equipment

2.4. ACTION AND LIMIT LEVELS

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 2.4**.

Table 2.4	Action and Limit Levels for Noise per EM&A Manual
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Time Period	Action	Limit (dB(A))
0700-1900 on norma weekdays	When one documented complaint is received from any one of the noise sensitive receivers	

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

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**.



2.5. MONITORING RESULTS AND OBSERVATIONS

Referring to EM&A manual Section 4.1.2, the impact noise monitoring should be carried out when there are project-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 Project site as shown in **Figure 2.4**, no impact monitoring for noise impact was conducted in the reporting period.

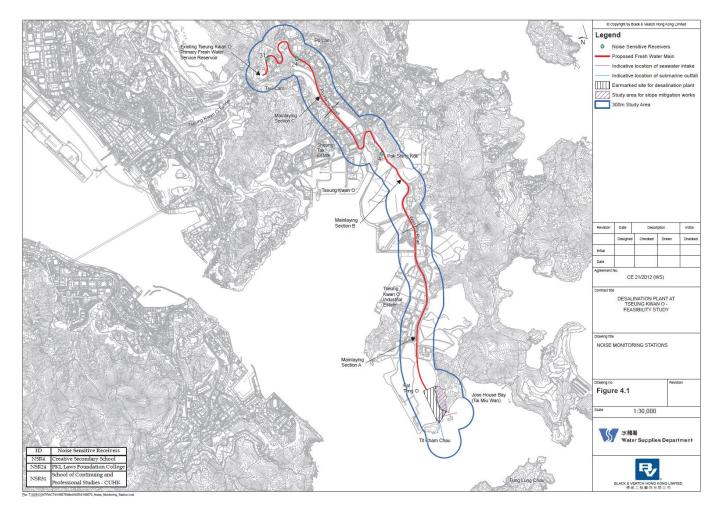


Figure 2.4 Site Layout Plan with Noise Sensitive Receivers and Desalination Plant

9



3. WATER QUALITY

In accordance with the recommendations of the EIA, water quality EM&A 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.

Water quality monitoring for the Project 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.

In addition, the marine works contractor is required to complete a silt curtain efficiency test for the combined use of floating silt curtain type and cage type silt curtain for dredging at seawater intake to confirm the silt curtain reduction efficiency assumptions of the assessment. The details of testing plan together with the silt curtain deployment plan shall be submitted by the ET to seek approval from the IEC and EPD.

3.1. IMPACT MONITORING METHODOLOGY

3.1.1. WATER QUALITY PARAMETERS

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 baseline monitoring are listed in **Table 3.1**.



Table 3.1 Parameters measured in the baseline marine water quality monitoring

Parameters	Unit	Abbreviation			
In-situ measurements	In-situ measurements				
Dissolved oxygen	mg/L	DO			
Temperature	٥C	-			
рН	-	-			
Turbidity	NTU	-			
Salinity	⁰ / ₀₀	-			
Total Residual Chlorine NOTE1	mg/L	TRC			
Laboratory measurements					
Suspended Solids	mg/L	SS			
Iron-Soluble NOTE2	mg/L	Fe			
Anti-scalant as Reactive Phosphorus NOTE2	mg/L	PO ₄ as P-			

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

NOTE 2: The testing methods shall be submitted to EPD for approval prior to the commencement of monitoring programme

In addition to the water quality parameters, other relevant data will also be 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.

3.1.2. MONITORING EQUIPMENT

For water quality monitoring, the following equipment will be used:

Dissolved Oxygen and Temperature Measuring Equipment - The instrument will be a portable, weatherproof dissolved oxygen measuring instrument complete with cable, sensor, comprehensive operation manuals, and will be operable from a DC power source. It will be 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 shall have 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

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cables shall be 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 will be a portable, weatherproof turbiditymeasuring unit complete with cable, sensor and comprehensive operation manuals. The equipment will be operated from a DC power source, it will have a photoelectric sensor capable of measuring turbidity between 0 - 1000 NTU and will be 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 will be 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) will be 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 should be suitably calibrated. The ET shall seek approval for their proposed equipment with the client prior to deployment.

Current Velocity and Direction – No specific equipment is recommended for measuring the current velocity and direction. The environmental contractor shall seek approval of their proposed equipment with the client prior to deployment.

Positioning Device – A Global Positioning System (GPS) shall be used during monitoring to allow accurate recording of the position of the monitoring vessel before taking measurements. The Differential GPS, or equivalent instrument, should be 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, will be used (e.g. Kahlsico Water Sampler 13SWB203 or an approved similar instrument). The water sampler will have a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler is at the selected water depth.

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

3.1.3. SAMPLING / TESTING PROTOCOLS

All in situ monitoring instruments will be 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 will be checked with certified standard solutions before each use.



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

3.1.4. LABORATORY MEASUREMENT AND ANALYSIS

All laboratory work shall be carried out in a HOKLAS accredited laboratory. Sufficient volume of each water sample shall be collected at the monitoring stations for carrying out the laboratory analyses. Using chain of custody forms, collected water samples will be transferred to an HOKLAS accredited laboratory for immediate processing. The determination work shall start within the next working day after collection of the water samples. The laboratory measurements shall be provided to the client within 5 working days of the sampling event. Analytical methodology and sample preservation of other parameters will be 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 should include 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 QA/QC details shall be in accordance with requirements of HOKLAS or another internationally accredited scheme.

Parameters for laboratory measurements, their standard methods and their detection limits are presented in **Table 3.2**.

Parameters	Standard Methods	Detection Limit	Reporting Limit	Precision
Dissolved oxygen (mg/L)	Instrumental, CTD	0.1	-	±25%
Temperature (°C)	Instrumental, CTD	0.1	-	±25%
рН	Instrumental, CTD	0.1	-	±25%
Turbidity (NTU)	Instrumental, CTD	0.1	-	±25%
Salinity (º/ ₀₀)	Instrumental, CTD	0.1	-	±25%
Suspended Solids (mg/L)	APHA 17 th Ed 2540D	1.0	2.0	±17%
Total Residual Chlorine (mg/L)	APHA 21st Ed 4500 – Cl G NOTE1	0.1NOTE1	0.2NOTE1	±10% NOTE1
Iron-soluble	USEPA 6010C NOTE 1	0.2 ^{NOTE1}	0.2 ^{NOTE1}	±25% ^{NOTE1}

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



Parameters	Standard Methods	Detection Limit	Reporting Limit	Precision
Anti-scalant as Reactive phosphorus	APHA 4500P: B&F NOTE1	0.01 ^{NOTE1}	0.01 ^{NOTE1}	±25% ^{NOTE1}

NOTE1: The testing methods, Quality Assurance/Quality Control (QA/QC) details, detection limits and accuracy shall be submitted to EPD for approval prior to the commencement of monitoring programme.

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

3.1.5. MONITORING LOCATION

The water quality monitoring locations for baseline are in accordance to the EM&A Manual and Contract Specification are shown in Figure 3.1 and Table 4.1 respectively, and detailed in Table 3.3 below. A schedule for water quality monitoring shall be prepared by the ET and approved by IEC and EPD prior to the commencement of the monitoring.

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

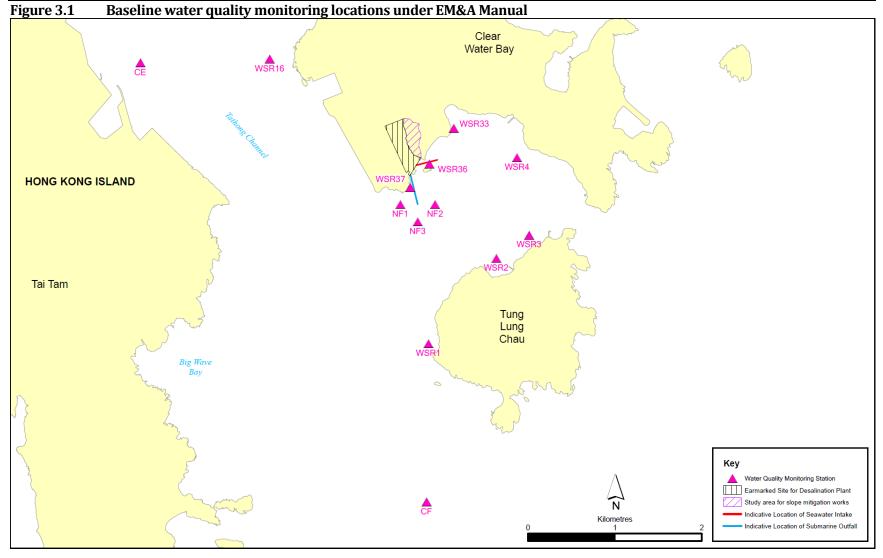
 Table 3.3 Location of Baseline Water Quality Monitoring Station



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 ad 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.13





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



3.1.6. SAMPLING FREQUENCY

During periods when there are dredging works, impact monitoring should be undertaken at the monitoring stations as shown in **Figure 3.1** and **Table 3.3** three days per week during the construction phase after the commencement of marine construction works and dredging activities. Monitoring at each station would be undertaken at both mid-ebb and mid-flood tides on the same day. The tidal range selected for the baseline monitoring will be at least 0.5 m for both flood and ebb tides as far as practicable. The interval between two sets of monitoring would not be 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.

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 will be recorded.

3.1.7. SAMPLING DEPTHS & REPLICATION

For baseline monitoring, each station will be sampled and measurements/ water samples will be 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 shall be taken. For stations that are less than 6 m in depth, only the surface and seabed sample shall be taken. For in situ measurements, duplicate readings shall be made at each water depth at each station. Duplicate water samples shall be collected at each water depth at each station. All observations and results were recorded in the data record sheets in **Appendix L**.

3.1.8. ACTION AND LIMIT LEVELS

The Action and Limit Levels have been set based on the derivation criteria specified in the EM&A Manual, as shown in **Table 3.4** below. Based on the baseline water quality monitoring data and the derivation criteria specified in **Table 3.4**, the Action/Limit Levels have been derived and are presented in **Table 3.5**.

3.2. MONITORING PROGRAMME

The ET of the Project 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 monitoring results was presented in Baseline Water Quality Monitoring Report separately.

The commencement of marine construction and dredging activities for the Project have been scheduled in March and April 2021 respectively.



Table 3.4Criteria of Action and Limit Levels for Water Quality

Parameters	Action	Limit
Construction Phase	Impact Monitoring	
DO in ma /I	Currence and Middle	Surface and Middle
DO in mg/L	Surface and Middle	Surface and Middle
	5%-ile of baseline data for surface	4 mg L ⁻¹
	and middle layer	
	Bottom	Bottom
	5%-ile of baseline data for bottom	2 mg L ⁻¹
	layers	
	Tung Lung Chau Fish Culture Zone	Tung Lung Chau Fish Culture Zone
	5.1 mgL ⁻¹ or level at control station	5.0 mgL-1 or level at control station
	(whichever the lower)	(whichever the lower)
SS in mg/L (Depth-	≥ 95 %-ile of baseline data or 20%	≥ 99 %-ile of baseline data or 30%
averaged)	exceedance of value at any impact	exceedance of value at any impact
	station compared with	station compared with corresponding
	corresponding data from control	data from control station
	station	
Turbidity in NTU	\geq 95 %-ile of baseline data or 20%	\geq 99 %-ile of baseline data or 30%
(Depth-averaged)	exceedance of value at any impact	exceedance of value at any impact
	station compared with	station compared with corresponding
	corresponding data from control	data from control station
	station	
First-year Operatio	n Phase Monitoring	
DO in mg/L	Surface and Middle	Surface and Middle
	5%-ile of baseline data for surface	4 mg L ⁻¹
	and middle layer	
	Bottom	Bottom
	5%-ile of baseline data for bottom	2 mg L-1
	layers	
	Tung Lung Chau Fish Culture Zone	Tung Lung Chau Fish Culture Zone



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	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 (Depth-	≥ 95 %-ile of baseline data or 20%	≥ 99 %-ile of baseline data or 30%
averaged)	exceedance of value at any impact	exceedance of value at any impact
	station compared with	station compared with corresponding
	corresponding data from control	data from control station
	station	
Turbidity in NTU	\geq 95 %-ile of baseline data or 20%	\geq 99 %-ile of baseline data or 30%
(Depth-averaged)	exceedance of value at any impact	exceedance of value at any impact
	station compared with	station compared with corresponding
	corresponding data from control	data from control station
	station	
Salinity in PSU	109% of baseline level or 9%	110% of baseline level or 10%
(Depth-averaged)	exceedance of value at any impact	exceedance of value at any impact
	station compared with	station compared with corresponding
	corresponding data from control	data from control station
	station	
Iron in mg/L	0.3 mgL ⁻¹	0.3 mgL ⁻¹
(Depth-averaged)		



Table 3.5Derived Action and Limit Levels for Water Quality

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 of
(Depth-averaged)	value at any impact station	value at any impact station
	compared with corresponding data	compared with corresponding
	from control station	data from control station
Turbidity in NTU	2.41 NTU or 20% exceedance of	2.84 NTU or 30% exceedance of
(Depth-averaged)	value at any impact station	value at any impact station
	compared with corresponding data	compared with corresponding
	from control station	data 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 of
(Depth-averaged)	valueat any impact station	value at any impact station
	compared with corresponding data	compared with corresponding
	from control station	data from control station

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Monthly EM&A Report No.15			
Turbidity in NTU	2.41 NTU or 20% exceedance of	2.84 NTU or 30% exceedance of	
(Depth-averaged)	value at any impact station	value at any impact station	
	compared with corresponding data	compared with corresponding	
	from control station	data 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	
	from control station	data 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 DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

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

iv. 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.

3.3. MONITORING RESULTS AND OBSERVATIONS

General water quality monitoring at the ten monitoring stations (CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36 and WSR37) were conducted on 1, 3, 5, 8, 10, 12, 15, 17, 19, 23, 25, 27 and 30 March 2021.

During the impact monitoring period for March 2021, five (5) of the general water quality monitoring results of suspended solids (SS) obtained had exceeded the Action Level. One (1) 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 0**.

Investigation on the reason of exceedance has been carried out, where the exceedance of SS on 25/3 and 27/3 was concluded to be unrelated to the project as detailed in the Incident Reports on Action Level or Limit Level Non-compliance along with supporting materials in **Appendix O**.



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 details results are presented in **Appendix L**.

Locations		Parameters								
		Salinity (ppt)	Dissolved Oxygen (mg/L)		pН	Turbidity	Suspended	Temp.(°C)		
			Surface & Middle	Bottom	pii	(NTU)	Solids (mg/L)	10mp.((0)		
	Avg.	30.37	9.44	9.36	8.41	2.40	3.14	23.2		
CE	Min.	26.88	7.92	8.36	8.17	1.60	2.50	20.0		
	Max.	31.88	10.74	10.57	8.71	3.20	9.10	27.1		
	Avg.	30.31	9.36	9.24	8.39	2.5	3.17	23.0		
CF	Min.	26.71	7.87	8.21	8.17	1.6	2.50	19.6		
	Max.	31.81	10.68	10.40	8.70	3.6	4.60	26.7		
	Avg.	30.26	9.30	9.24	8.41	2.3	3.15	23.0		
WSR1	Min.	26.71	7.82	8.35	8.17	1.5	2.50	19.7		
	Max.	31.87	10.73	10.39	8.70	3.0	6.30	26.6		
	Avg.	30.35	9.33	9.23	8.41	2.4	3.18	23.1		
WSR2	Min.	26.89	7.88	8.31	8.18	1.4	2.50	19.9		
	Max.	31.86	10.72	10.57	8.67	3.1	5.00	26.7		
	Avg.	30.36	9.22	9.15	8.41	2.3	3.38	23.0		
WSR3	Min.	26.78	7.82	8.10	8.17	1.6	2.50	20.0		
	Max.	31.88	10.61	9.95	8.65	3.2	5.80	26.6		
	Avg.	30.32	9.30	9.22	8.40	2.3	3.53	23.1		
WSR4	Min.	26.77	7.74	7.97	8.17	1.5	2.50	19.8		
	Max.	31.69	10.60	10.28	8.70	3.0	6.60	26.8		
	Avg.	30.37	9.35	9.31	8.44	2.3	3.55	23.1		
WSR16	Min.	26.96	8.10	8.28	8.17	1.5	2.50	19.9		
	Max.	31.88	10.65	10.67	8.68	3.2	6.70	27.0		
WSR33	Avg.	30.32	9.32	9.23	8.43	2.3	3.34	23.0		
	Min.	26.80	8.18	7.91	8.17	1.6	2.50	19.8		
	Max.	31.73	10.89	10.62	8.70	3.2	6.90	26.9		
WSR36	Avg.	30.41	9.40	9.15	8.43	2.3	3.39	23.0		
	Min.	26.70	8.11	8.41	8.17	1.4	2.50	19.6		
	Max.	31.87	10.85	10.72	8.70	2.9	6.50	26.9		
	Avg.	30.34	9.43	9.44	8.42	2.3	3.65	23.0		
WSR37	Min.	26.75	8.24	7.83	8.19	1.5	2.50	19.7		
	Max.	31.85	10.85	10.72	8.69	3.0	9.00	26.9		

Table 3.6 Summary of Impact Water Quality Monitoring Results (Mid-Flood)

Notes: i.

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



Table 3.7 Summary of Impact Water Quality Monitoring Results (Mid-Ebb)

Locations		Parameters								
		Salinity (ppt)	Dissolved Oxygen (mg/L)		pН	Turbidity	Suspended	Temp.(°C)		
		Summey (PPC)	Surface & Middle	Bottom	1	(NTU)	Solids (mg/L)			
	Avg.	30.38	9.40	9.34	8.42	2.4	3.12	23.3		
CE	Min.	26.20	7.56	7.79	8.21	1.6	2.50	19.9		
	Max.	31.72	10.78	10.64	8.64	3.2	9.00	27.5		
	Avg.	30.45	9.42	9.33	8.39	2.5	3.08	23.4		
CF	Min.	26.20	7.60	7.65	8.20	1.8	2.50	19.9		
	Max.	31.97	11.01	11.07	8.63	3.2	4.70	28.1		
	Avg.	30.28	9.30	9.43	8.40	2.3	3.21	23.4		
WSR1	Min.	26.29	7.50	7.60	8.17	1.5	2.50	20.1		
	Max.	31.88	10.99	10.61	8.63	3.1	6.80	28.0		
	Avg.	3A0.39	9.44	9.42	8.41	2.4	3.14	23.4		
WSR2	Min.	26.20	8.08	7.55	8.21	1.5	2.50	19.9		
	Max.	31.95	10.88	10.89	8.62	3.1	5.40	28.0		
	Avg.	30.38	9.38	9.33	8.37	2.3	3.10	23.4		
WSR3	Min.	26.29	7.66	8.25	8.21	1.7	2.50	20.1		
	Max.	31.84	10.76	10.70	8.61	2.9	4.70	28.0		
	Avg.	30.33	9.32	9.20	8.41	2.3	3.08	23.4		
WSR4	Min.	26.31	7.54	7.63	8.21	1.5	2.50	20.1		
	Max.	31.94	10.82	10.73	8.61	3.1	5.10	27.9		
	Avg.	30.39	9.40	9.51	8.37	2.3	3.30	23.3		
WSR16	Min.	26.22	7.54	7.87	8.18	1.5	2.50	20.0		
	Max.	31.71	10.94	10.95	8.60	3.1	7.60	27.5		
	Avg.	30.33	9.27	9.46	8.38	2.3	3.30	23.4		
WSR33	Min.	26.19	8.03	7.75	8.20	1.4	2.50	20.2		
	Max.	31.91	10.76	10.88	8.60	2.9	7.60	27.8		
WSR36	Avg.	30.41	9.40	9.35	8.37	2.3	3.26	23.4		
	Min.	26.59	8.07	7.87	8.19	1.6	2.50	20.0		
	Max.	31.86	10.73	10.94	8.62	3.1	6.90	27.7		
	Avg.	30.37	9.41	9.33	8.40	2.3	3.52	23.3		
WSR37	Min.	26.18	7.70	8.25	8.21	1.3	2.50	19.9		
	Max.	31.89	10.94	10.86	8.63	3.0	7.30	27.6		

Notes: i.

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



4. WASTE

The waste generated from this Project includes inert construction and demolition (C&D) materials, and non-inert C&D materials. Noninert 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 project 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 Project, the quantities of different types of waste generated in the reporting month are summarised in **Table 4.1**. Details of cumulative waste management data are presented as a waste flow table in **Appendix H**.

Table 4.1Quantities of Waste Generated from the Project during March 2021

	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
Reporting Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper / cardboard packaging	Plastics (see Note)	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)
March 2021	91.710	0.000	0.000	0.000*	91.710	0.000	0.002	0.155	0.010	0.000	122.940

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

* The data may be updated in the next reporting month after final confirmation by the end of the month.



5. LANDFILL GAS MONITORING

5.1. MONITORING REQUIREMENT

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.

5.2. MONITORING LOCATION

Monitoring of oxygen, methane, carbon dioxide and barometric pressure would be performed for excavations at 1m depth or more within the consultation Zone.

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.

For excavations between 300mm and 1m deep, measurements should be carried out:

- Directly after the excavation has been completed; and
- Periodically whilst the excavation remains open.

5.3. MONITORING PROGRAMME

For the part of the desalination plant and the indicative area of natural slope mitigation works fall within the SENT Landfill Extension Consultation Zone in this contract, since the SENT Landfill Extension is still under construction, the Landfill gas monitoring shall be conducted after the commencement of operation of the SENT Landfill Extension which will be 2021 Quarter 3 according to the latest construction programme shown in the monthly EM&A Report of SENT Landfill Extension. The Contractor's safety officer shall keep review the necessity of landfill gas monitoring during the construction stage. No landfill gas monitoring was conducted in the reporting period.



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

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

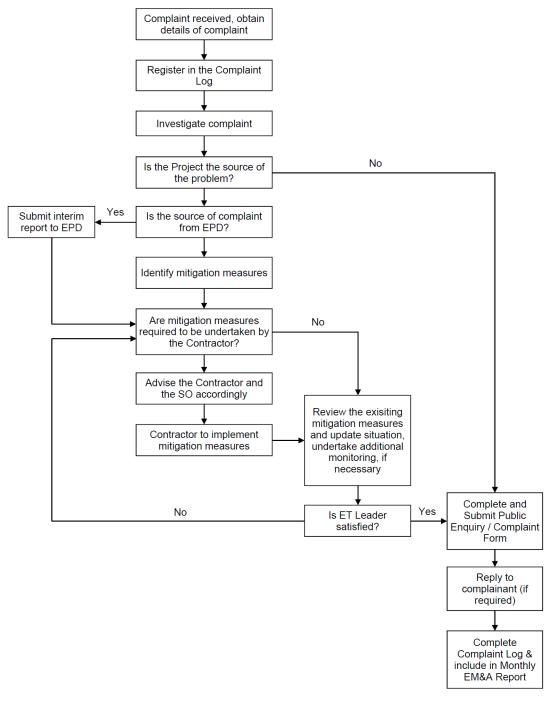


Figure 6.1 Environmental Complaint Handling Procedures

26



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

General water quality monitoring at the ten monitoring stations (CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36 and WSR37) were conducted on 1, 3, 5, 8, 10, 12, 15, 17, 19, 23, 25, 27 and 30 March 2021.

Five (5) of the general water quality monitoring results of suspended solids (SS) obtained had exceeded Action Leve. One (1) of the general water quality monitoring results of SS obtained during the reporting period had exceeded the Limit Level. Further information can be found in **Appendix O**.

Details of the exceedance are presented in **Appendix 0**.

Investigation on the reason of exceedance has been carried out, where the exceedance of SS on 25/3 and 27/3 was concluded to be unrelated to the project as detailed in the Incident Reports on Action Level or Limit Level Non-compliance along with supporting materials in **Appendix 0**.

No notification of summons and prosecution was received in the reporting period.

Statistics on complaints and regulatory compliance are summarized in **Appendix J**.



7. EM&A SITE INSPECTION

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting period, site inspections were carried out on 2, 9, 16, 23 and 30 March 2021 at the site portions list in **Table 7.1** below.

Date	Inspected Site Portion	Time
02 March 2021	TKO 137	14:30-17:00 PM
09 March 2021	TKO 137	14:30-17:00 PM
16 March 2021	TKO 137	14:30-17:00 PM
23 March 2021	TKO 137	14:30 – 17:00 PM
30 March 2021	TKO 137	09:00 – 12:00 PM

Table 7.1Summaries of Site Inspection Record

Two joint site inspection with IEC were carried out on 09 & 30 March 2021.

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		
02 March 2021	 Observation(s) and Recommendation(s) 1. Chemicals were not placed inside a drip tray near the Product Water Storage Tank (observation). 2. General waste materials should be cleared regularly from the drainage channel near ActiDAFF Area (reminder). 3. Connections of the inner silt curtain was observed detached. The Contractor was reminded to take rectification actions (reminder). 4. The Contractor was reminded that covers should be added to general wastebins to reduce hygiene and safety concerns (reminder). 	Chemicals removed and stored in proper storage.		
09 March 2021	 <u>Observation(s) and Recommendation(s)</u> 1. Chemicals were not placed on a drip tray at Combined Shaft Area, Product Water Storage Tank and Formwork Storage Area (observation). 2. Housekeeping was reminded at the Formwork/Rebar Area. Construction materials shall not be placed near the country park area (reminder). 	Chemicals removed and stored in proper storage.		

Table 7.2Site Observations

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Monthly EM&A Report	rt No.13	SUSTAINABILITY CONSULTING LIMITED
Date	Environmental Observations	Follow-up Status
	3. Regular collection of general wastes should be conducted to limit hygiene concerns near	
	ActiDAFF area (reminder).	
	4. Regular cleaning of drip tray should be	
	conducted to prevent the overflow of	
	chemicals at Product Water Storage Tank	
	(reminder).	
16 March 2021	Observation(s) and Recommendation(s)	Nil.
	1. No major observation was observed.	
	2. The Contractor was reminded to place all	
	chemicals in the chemical drip tray and	
	clean the drip tray regularly at Worker	
	Resting Area (reminder).	
	3. Housekeeping was reminded at Worker	
	Resting Area (reminder).	
	4. Consideration should be taken for the water	
	drainage pathway along rainy season	
	(general) (reminder).	
	5. The Contractor was reminded to pay special	
	attention to not placing construction	
	materials near the slope and country park	
	area (general) (reminder).	
23 March 2021	Observation(s) and Recommendation(s)	Nil.
	1. No major observation was observed.	
	2. The Main Contractor was reminded to	
	implement chemical storage inside the	
	construction site (general) (reminder).	
	3. Housekeeping was reminded at R.O Area	
	and drainage channel near ActiDAFF Area	
	(reminder).	
	4. The Main Contractor was reminded to not	
	place construction materials near the	
	boundary of the country park (reminder).	
30 March 2021	Observation(s) and Recommendation(s)	Nil.
	1. No major observation was observed.	
	2. The Contractor was reminded to consider	
	on-site machinery storage to prevent safety	
	and environmental concerns at Combined	
	Shaft (e.g. digger) such as land	
	contamination (reminder).	



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**.



8. FUTURE KEY ISSUES

Works to be undertaken in the next reporting month are:

- Land Survey;
- Construction of ActiDAFF perimeter wall and water tank;
- Construction of RO/electrical building ground floor slab and columns;
- Construction for Product Water Storage Tank perimeter wall and footing of electrical building;
- Backfilling around Product Water Storage Tank;
- Construction of post treatment building footing;
- Construction of pile cap of Administration Building;
- Construction of R.C footing of Inspection Gallery;
- Construction of Main electrical and chiller plant building (1/F);
- Marine Dredging at Outfall Shaft;
- Cable drawpit construction;
- Excavation and laying yard piping;
- Construction R.C. Wall of Combined Shaft;
- Removal of ELS strut layer W4 & W5 of Combined Shaft
- Wan Po Road Sewage Works TTA, excavation and laying HDPE pipe

The major environmental impacts brought by the above construction works will include:

- Construction dust and noise generation from excavation, foundation and ELS installation works, pipe mainlaying and construction works
- Waste generation from construction activities

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
- Sorting and storage of general refuse and construction waste

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 project-related construction activities undertaken within a radius of 300m from the monitoring stations.

The impact noise monitoring schedule for the next reporting month to be shown at **Appendix K** is not included since no impact noise monitoring will be conducted in the next reporting month.



9. CONCLUSIONS AND RECOMMENDATIONS

This is the 13th Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 March to 31 March 2021, in accordance with the EM&A Manual and the requirement under FEP-01/503/2015/A.

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.

The EM&A works for water quality were conducted during the reporting period in accordance with the EM&A Manual.

Five (5) of the general water quality monitoring results of suspended solids (SS) obtained had exceeded the Action Level. One (1) 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 0**.

Investigation on the reason of exceedance has been carried out, where the exceedance of SS on 25/3 and 27/3 was concluded to be unrelated to the project as detailed in the Incident Reports on Action Level or Limit Level Non-compliance along with supporting materials in **Appendix O**.

Weekly environmental site inspection was conducted during the reporting period. Minor deficiency was observed during site inspection and was rectified. The environmental performance of the project was therefore considered satisfactory.

According to the environmental site inspections performed in the reporting month, the Contractor is reminded to pay attention on maintaining proper materials storage.

No environmental complaint was received in the reporting period.

No notification of summons or prosecution was received since commencement of the Contract.

The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.



Appendix A

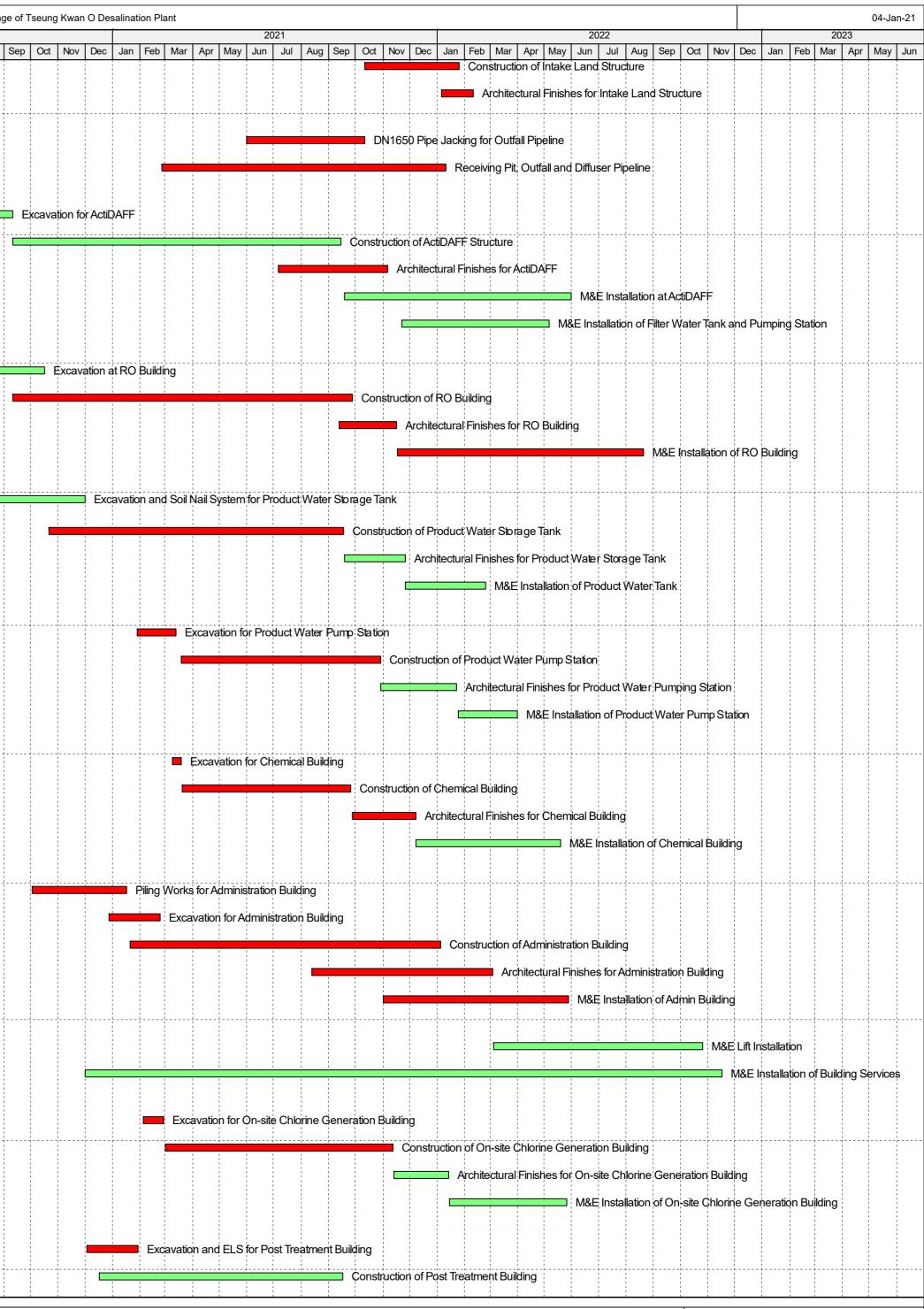
Master Programme

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13/WSD/17								Design, I	Build and C	Operate Firs	st Stage of	f Tseung Kv	van O De	salination Plant										04-Jan-21
Activity ID	Activity Name	Calendar Origina Duratio	al Early Start	Early Finish	Total Float	New Dee		Max An		2020	Aur		Dec.		2021		Con Ort Nev I	Declar		2022		Deal lan Fal	2023	Max
Project Program	me (Level 2)					Nov Dec J	an Feb	Mar Apr			Aug Se		ov Dec	Jan Feb Mar Apr	May Jun J		Sep Oct Nov I	Dec Jan	Feb Mar Apr May Jur	i Jui Aug Sep		Dec Jan Fer	b Mar Apr	May Jun
Key Dates																								
	t and Completion Date																							
KD0000100	Letter of Acceptance	IWP0 - 7 0	15-Nov-19		0	◆ Letter of	Acceptanc	œ																
KD0000110	Commencement of the Works	IWP0 - 7 0	30-Dec-19		0	(Commenc	ement of	the Work	S														
KD0000120	Completion of the Works (1170 Days)	IWP0 - 7 0		13-Mar-23	0		·													· - i		· · · · · · · · · · · · · · · · · · ·	◆ Compl	letion of the \
KD0000130	EOT Granted for Completion of the Works (52.5 Days)	IWP0 - 7 53	14-Mar-23	05-May-23	0																			EOT Gra
KD0000500	Extended Completion of the Works	IWP0 - 7 0		05-May-23	0																			◆ Extende
KD0000510	Planned Completion of the Works incl. DfMA	IWP0 - 7 0		05-May-23	0																			♦ Planned
Executive Summ	naries																							
Preliminary Setu																								
ES0001000	Mobilization and Preliminary Set Up	IWP0 - 7 204	30-Dec-19	20-Jul-20	119						Nobiliżatic	on and Pre	liminary S	Set Up										
Civil Design AIP																								
ES0001010	AIP Civil Design Submission and Approval	IWP0 - 7 246	30-Dec-19	31-Aug-20	107						AI	IP Civil Des	sign Subr	nission and Approval										
ES0001020	DDA Civil Design Submission and Approval	IWP0 - 7 465	22-Jan-20	30-Apr-21	226			1							DDA Civil De	sign Subi	mission and Appro	oval						
M&E Design AIP														L					L					
ES0002000	M&E AIP Process Mechanical Submission and Approval	IWP0 - 7 359	30-Dec-19	22-Dec-20	111						1			M&EAIP Process Mech	nanical Submi	ssion and	Approval							
ES0002010	M&E DDA Process Mechanical Submission and Approval	IWP0 - 7 240	21-Jul-20	17-Mar-21	98						1			M&E D	DA Process M	lechanica	I Submission and A	Approval						
ES0002020	M&E AIP Instrumentation & Control Submission and Approval	IWP0 - 7 22	04-Feb-20	25-Feb-20	771			M&EAIP	Instrume	ntation & C	Control Su	ubmission	and Appr	roval										
ES0002030	M&E DDA Instrumentation & Control Submission and Approval	IWP0 - 7 349	30-Jan-21	13-Jan-22	158														1&E DDA Instrumentation &	Control Submissi	on and Approv	val		
ES0002050	M&E DDA Electrical and Renewable Energy Submission and	IWP0 - 7 144	17-Aug-20	07-Jan-21	70									M&E DDA Electrical	and Renewal	ole Energy	y Submission and a	Approval						
ES0002060	Approval M&E AIP Building Services Submission and Approval	IWP0 - 7 306	30-Dec-19	30-Oct-20	102								/&ÉAIPI	Building Services Subm	ission and Apr	oroval								
ES0002065	M&E Design Basis & Civil Guidance Dwg	IWP0 - 7 208		24-Jul-20	250						M&F Des			uidance Dwg										
								1									Ibmission and Ann	roud						
ES0002070	M&E DDA Building Services Submission and Approval	IWP0 - 7 379		14-Mar-21	31			-							DA Building Se	I VICES SU	Ibmission and App	rovai						
ES0002085	M&E AIP Site Electrical Submission and Approval	IWP0 - 7 124		22-Jul-20	202						M&EAIP	Site Electri	cal Subm	ission and Approval										
ES0002090	M&E DDA Lift Submission and Approval	IWP0 - 7 114	01-Oct-20	22-Jan-21	179									M&E DDA Lift Sul	bmission and .	Approval								
ES0002095	M&E DDA Site Electrical Submission and Approval	IWP0 - 7 246	23-Jul-20	25-Mar-21	256					Ē				M&E	DDA Site Elec	trical Subi	mission and Appro	oval						
ES0002100	M&E AIP T&C Design Submission and Approval	IWP0 - 7 155	18-Mar-22	19-Aug-22	89															M&E	AIP T&C Desi	ign Submissior	n and Approv	/al
ES0002110	M&E DDA T&C Design Submission and Approval	IWP0 - 7 60	20-Aug-22	18-Oct-22	89																M&E DI	DA T&C Desig	n Submissior	1 and Appro
Procurement of	Major Plant & Equipment Schedule																							
ES0002320	M&E Procurement of Major Plant, Equipment, Material and Delivery	IWP0 - 7 730	04-Feb-20	02-Feb-22	138										· · · · · · · · · · · · · · · · · · ·		·;;;;;;		M&E Procurement of Ma	jor Plant, Equipme	ent, Material ar	nd Delivery		
ES2420	M&E Procurement of Mechanical Equipment - Intake Pumps	IWP0 - 7 661	04-Feb-20	25-Nov-21	81			1			1							M&E Proc	urement of Mechanical Equ	ipment - Intake Ρι	ımps			
ES2430	M&E Procurement of Mechanical Equipment - ActiDAFF Underdrain	IWP0 - 7 385	02-Aug-20	21-Aug-21	27						1						M&E Procurement	t of Mecha	nical Equipment - ActiDAFF	Underdrain				
F00440				40.1.1.04	454												roouromont of Mov	obonical E	quipment - ActiDAFF Media					
ES2440	M&E Procurement of Mechanical Equipment - ActiDAFF Media	IWP0 - 7 361		18-Jul-21	151																			
ES2450	M&E Procurement of Mechanical Equipment - RO and ERD Rack	IWP0 - 7 425		19-Sep-21	58													ement of N	lechanical Equipment - RO					
ES2460	M&E Procurement of Mechanical Equipment - RO Membrane	IWP0 - 7 937		05-Sep-22	39																	ent of Mechan	ical Equipme	nt - RO Mer
ES2470	M&E Procurement of Electrical Equipment - CLP Substation for LV Switchboard / Genset / Building Services	IWP0 - 7 349	14-Mar-20	25-Feb-21	213						1			M&E Procu	urement of Ele	ctrical Eq	uipment - CLP Sub	bstation fo	r LV Switchboard / Genset /	Building Services				
132kV Substatio	n																							1 I 1 I 1 I 1 I 1 I 1 I 1 I 1 I
ES0001460	Excavation and Formation Works for 132kV Substation	IWP0 - 7 39	16-Mar-20	23-Apr-20	3				I Excava	tion and Fo	ormation	Works for	132kV S	ubstation										
ES0001470	Construction of 132kV Substation	IWP0 - 7 248	27-Apr-20	30-Dec-20	0									Construction of 132k	V Substation									
ES0001480	Architectural Finishes for 132kV Substation	IWP0 - 7 68	23-Nov-20	29-Jan-21	0									Architectural Fin	ishes for 132k	V Substa	tion		······································					
ES0002240	M&E Installation of 132kV Substation	IWP0 - 7 92	01-Dec-20	02-Mar-21	0									M&E Insta	allation of 132k	V Substa	tion							I I I I I I I I I I I I J
Combine Shaft																								
ES0001060	Construction of Combine Shaft	IWP0 - 7 350	02-May-20	16-Apr-21	0									¢	Construction of	Combine	e Shaft							1 I 1 I 1 I 1 I 1 I 1 I 1 I 1 I
ES0002120	M&E Installation at Combine Shaft	IWP0 - 7 123	11-Feb-22	13-Jun-22	0															M&E Installation a	t Combine Sh	aft		
Intake																								
ES0001070	DN2500 Pipe Jacking for Intake Pipeline	IWP0 - 7 176	17-Apr-21	09-Oct-21	0									-			DN2500 I	Pipe Jack	ng for Intake Pipeline					I I I I I I I I I I I I
ES0001080	Receiving Pit and Marine Intake Structure	IWP0 - 7 460	07-Mar-21	09-Jun-22	0															Receiving Pit and I	Varine Intake	Structure		
Summary Bar	Early Bar	Page 1 of 4					1				i		i					i				<u> </u>		<u> </u>
Actual Summary	Critical Bar										Proę	gramme	of the	Works								acciona	JEC GART	
Actual Work	♦ ♦ Milestone																					AJC JOINT	VENTURE	1



/SD/17 / ID	Activity Name	Calendar	Original	Early Start	Early Finish	Total							uild and	•	020
ES0001110	Construction of Intake Land Structure	IWP0 - 7	Duration 107	11-Oct-21	25-Jan-22	Float 0	Nov [ec ,	Jan	Feb	Mar	Apr	May	Jun	Jul
ES0001120	Architectural Finishes for Intake Land Structure	IWP0 - 7		06-Jan-22	10-Feb-22	0					1 1 1 1				
		100-7	50	00-Jan-22	10-Feb-22	0				 	 			 - 	
outFall ES0001090	DN1650 Pipe Jacking for Outfall Pipeline	IWP0 - 7	134	31-May-21	11-Oct-21	0				1 1 1 1 1	1 1 1 1			1 1 1 1 1	
S0001100	Receiving Pit, Outfall and Diffuser Pipeline	IWP0 - 7	320	25-Feb-21	10-Jan-22	0				1 1 1 1	1 1 1 1 1			1 1 1 1	
ctiDAFF										1 1 1 1					
ES0001140	Excavation for ActiDAFF	IWP0 - 7	142	22-Apr-20	10-Sep-20	3							-	1	
ES0001150	Construction of ActiDAFF Structure	IWP0 - 7	369	11-Sep-20	14-Sep-21	3					 				
ES0001160	Architectural Finishes for ActiDAFF	IWP0 - 7	124	06-Jul-21	06-Nov-21	0									
ES0002130	M&E Installation at ActiDAFF	IWP0 - 7	256	18-Sep-21	31-May-22	20									
ES0002140	M&E Installation of Filter Water Tank and Pumping Station	IWP0 - 7	166	22-Nov-21	06-May-22	22									
Reverse Osmos	sis Ruilding														
ES0001170	Excavation at RO Building	IWP0 - 7	115	24-Jun-20	16-Oct-20	6									
ES0001180	Construction of RO Building	IWP0 - 7	382	11-Sep-20	27-Sep-21	0				1	1 1 1 1				
ES0001190	Architectural Finishes for RO Building	IWP0 - 7	65	13-Sep-21	16-Nov-21	0									
ES0002150	M&E Installation of RO Building	IWP0 - 7	277	17-Nov-21	20-Aug-22	0				1 1 1 1					
roduct Water	_														
ES0001240	Excavation and Soil Nail System for Product Water Storage Tank	IWP0 - 7	161	24-Jun-20	01-Dec-20	3									
ES0001250	Construction of Product Water Storage Tank	IWP0 - 7	332	21-Oct-20	17-Sep-21	0									
ES0001260	Architectural Finishes for Product Water Storage Tank	IWP0 - 7		18-Sep-21	25-Nov-21	5									
ES0002210	M&E Installation of Product Water Tank	IWP0 - 7		26-Nov-21	24-Feb-22	44									
			51	20110721							1 1 1 1				
ES0001270	Pumping Station Excavation for Product Water Pump Station	IWP0 - 7	44	29-Jan-21	13-Mar-21	0								 	
ES0001280	Construction of Product Water Pump Station	IWP0 - 7	225	19-Mar-21	29-Oct-21	0				1 1 1 1					
ES0001290	Architectural Finishes for Product Water Pumping Station	IWP0 - 7	86	29-Oct-21	22-Jan-22	5		-							
ES0002215	M&E Installation of Product Water Pump Station	IWP0 - 7		24-Jan-22	31-Mar-22	28									
Chemical Build															
ES0001300	Excavation for Chemical Building	IWP0 - 7	11	09-Mar-21	19-Mar-21	0									
ES0001310	Construction of Chemical Building	IWP0 - 7	190	20-Mar-21	25-Sep-21	0									
ES0001320	Architectural Finishes for Chemical Building	IWP0 - 7	72	27-Sep-21	07-Dec-21	0									
ES0002220	M&E Installation of Chemical Building	IWP0 - 7	163	08-Dec-21	19-May-22	9				1 1 1 1	1 1 1 1 1			1 1 1 1	
dministration															
ES0001330	Piling Works for Administration Building	IWP0 - 7	106	03-Oct-20	16-Jan-21	0					- - - - -			 	
ES0001340	Excavation for Administration Building	IWP0 - 7	58	28-Dec-20	23-Feb-21	0									
ES0001350	Construction of Administration Building	IWP0 - 7	349	21-Jan-21	04-Jan-22	0									
ES0001360	Architectural Finishes for Administration Building	IWP0 - 7	204	13-Aug-21	04-Mar-22	0									
ES0002230	M&E Installation of Admin Building	IWP0 - 7	209	01-Nov-21	28-May-22	0									
uilding Servic	ces & Lift Installation							·			- - 				
ES0002270	M&E Lift Installation	IWP0 - 7	235	05-Mar-22	25-Oct-22	76									
ES0002280	M&E Installation of Building Services	IWP0 - 7	716	01-Dec-20	16-Nov-22	69				1	1 1 1 1				
SCG Building															
ES0001400	Excavation for On-site Chlorine Generation Building	IWP0 - 7	23	05-Feb-21	27-Feb-21	0									
ES0001410	Construction of On-site Chlorine Generation Building	IWP0 - 7	257	01-Mar-21	12-Nov-21	0		· + -						, ,	
ES0001420	Architectural Finishes for On-site Chlorine Generation Building	IWP0 - 7	62	13-Nov-21	13-Jan-22	8		-							
ES0002200	M&E Installation of On-site Chlorine Generation Building	IWP0 - 7	133	14-Jan-22	26-May-22	9									
ost Treatment	Building														
ES0001210	Excavation and ELS for Post Treatment Building	IWP0 - 7	58	03-Dec-20	29-Jan-21	0									
ES0001220	Construction of Post Treatment Building	IWP0 - 7	274	17-Dec-20	16-Sep-21	4					 	 		 	
Summary Bar	Early Bar	Page 2	2 of 4					1		8			<u> </u>	8	<u> </u>
Actual Summar	-														





ty ID	Activity Name	Calenda		Early Start	Early Finish	Total				-		20	ate First S 20		-	-			
ES0001230	Architectural Finishes for Post Treatment Building	IWP0 - 7	Duration 113	17-Sep-21	07-Jan-22	Float 4	Nov Dec	Jan	Feb	Mar Ap	May	Jun	Jul Au	ig Sep	Oct	Nov	Dec	Jan F	eb
ES0001230	M&E Installation of Post Treatment System	IWP0 - 7		08-Jan-22	28-Jun-22	4													
		100-7	172	00-Jan-22	20-Juli-22	4													
Sludge Thicker ES0001680	ner Excavation and ELS for Sludge Thickener	IWP0 - 7	71	19-Jun-21	28-Aug-21	10													
ES0001690	Construction of Sludge Thickener	IWP0 - 7	109	30-Aug-21	16-Dec-21	12													
ES0001700	Architectural Finishes for Sludge Thickener	IWP0 - 7		17-Dec-21	08-Feb-22	9													
ES0002190	M&E Installation of Sludge Thickener	IWP0 - 7		09-Feb-22	22-Jun-22	10													
	& Pump Room																		
ES0001550	Piling for Irrigation Tank and Pump Room	IWP0 - 7	66	14-Apr-21	18-Jun-21	61													
ES0001560	Excavation for Irrigation Tank and Pump Room	IWP0 - 7	8	17-Sep-21	24-Sep-21	21													
ES0001570	Construction of Irrigation Tank and Pump Room	IWP0 - 7	185	25-Sep-21	28-Mar-22	45													
ES0001580	Architectural Finishes for Irrigation Tank and Pump Room	IWP0 - 7	72	24-Feb-22	06-May-22	41													
Inspection Gal	lerv																		
ES0001590	Piling for Inspection Gallery (Elevated Walkway)	IWP0 - 7	31	15-Dec-20	14-Jan-21	84												🗖 Pilir	ıg f
ES0001600	Excavation for Inspection Gallery	IWP0 - 7	120	12-May-21	08-Sep-21	33													
ES0001610	Construction of Inspection Gallery	IWP0 - 7	397	20-May-21	20-Jun-22	31													
ES0001620	Architectural Finishes for Inspection Gallery	IWP0 - 7	82	21-Jun-22	10-Sep-22	34													
Main Electrical	and Central Chiller Plant Building																1 1 1 1 1 1 1 1 1 1 1 1		
ES0001430	Excavation for Main Electrical and Central Chiller Plant Building	IWP0 - 7	6	04-Jan-21	09-Jan-21	0												Exca	ava
ES0001440	Construction of Main Electrical and Central Chiller Plant Building	IWP0 - 7	216	11-Jan-21	14-Aug-21	0			 										
ES0001450	Architectural Finishes for Main Electrical and Central Chiller Plant	IWP0 - 7	97	16-Jul-21	20-Oct-21	0													
ES0002260	Building M&E Installation of LV/HV Cabling and Field Panels	IWP0 - 7	251	21-Oct-21	28-Jun-22	4													
Guard House																			
ES0001490	Excavation for Guard House at Main Gate	IWP0 - 7	7	17-Apr-21	23-Apr-21	3													
ES0001500	Construction of Guard House at Main Gate	IWP0 - 7	143	24-Apr-21	13-Sep-21	2		- - - - - - - - - - - - - - - - - - -											
ES0001510	Architectural Finishes for Guard House at Main Gate	IWP0 - 7	71	14-Sep-21	23-Nov-21	200													
ES0001520	Excavation for Guard House near Pier	IWP0 - 7	· 9	28-Sep-21	06-Oct-21	20													
ES0001530	Construction of Guard House near Pier	IWP0 - 7		07-Oct-21	07-Mar-22	18													
ES0001540	Architectural Finishes for Guard House near Pier	IWP0 - 7		08-Mar-22	23-May-22	19													
		100-7		00-10101-22	20-1110y-22	10													
CO2 Tank ES0001370	Filling to Formation for CO2 Tanks Area	IWP0 - 7	30	21-Apr-21	20-May-21	78													
ES0001380	Construction of CO2 Tanks Area	IWP0 - 7	′ 116	21-May-21	13-Sep-21	79													
ES0001390	Architectural Finishes for CO2 Tanks Area	IWP0 - 7	73	14-Sep-21	25-Nov-21	87													
ES0002170	M&E Installation of CO2 Tank	IWP0 - 7		26-Nov-21	12-Apr-22	198													
						100		· 											
ES0002250	ncy Generator M&E Diesel Emergency Generator	IWP0 - 7	57	12-Feb-22	09-Apr-22	26													
Switch Room a	and Transformer Installation																		
ES0002300	M&E Installation of HV/LV Switchroom and Transformer	IWP0 - 7	290	25-Nov-21	10-Sep-22	84													
Miscellaneous																			
ES0001630	Remaining Architectural Finishes for All Buildings	IWP0 - 7	231	13-May-22	29-Dec-22	37		1											
ES0001640	External Process and Non-Process Pipe	IWP0 - 7	581	13-Mar-21	14-Oct-22	4													
ES0001650	Road and Drainage	IWP0 - 7	530	12-Jun-21	23-Nov-22	98													
ES0001660	Slope Mitigation and Maintenance Access	IWP0 - 7	642	22-Feb-21	25-Nov-22	137													
ES0001670	Landscaping Works	IWP0 - 7	438	05-Nov-21	16-Jan-23	109													
ES0002290	M&E PV Panels	IWP0 - 7	191	17-Nov-21	26-May-22	25			 										
ES0002310	M&E Chiller & Irrigation System Installation	IWP0 - 7	392	21-Oct-21	16-Nov-22	139													
ES0002350	M&E Installation of Surge Vessel	IWP0 - 7	198	13-Jan-22	29-Jul-22	127													
ES0002360	M&E Installation of Flowmeter Pit	IWP0 - 7		13-Jan-22	23-Mar-22	43													
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04-Jan-21

ity ID	Activity Name	Calendar Original Early Start	Early Finish	Total			2020			2021		2022		2023
,		Duration		Float Nov	Dec Ja	n Feb Mar A	pr May Jun Jul	Aug Sep Oct Nov D	Dec Jan Feb Mar	Apr May Jun Jul Aug Sep Oc	t Nov Dec Jan Feb Mar A	pr May Jun Jul Aug Ser	p Oct Nov Dec Jan Feb	Mar Apr Ma
ES0002370	M&E Installation of Static Mixer Pit	IWP0 - 7 41 28-Mar-22	07-May-22	0								M&E Installation of Static	c Mixer Pit	
ES0002380	M&E Installation of Drainage Pit	IWP0 - 7 30 25-Feb-22	26-Mar-22	40			·				N	&E Installation of Drainage Pit		
ES0002390	M&E Installation of Thickened Sludge Holding Tank	IWP0 - 7 45 08-Jan-22	21-Feb-22	73							M&E Ins	tallation of Thickened Sludge I	Holding Tank	
Statutory Sub	mission & Inspection													
ES0002330	Statutory Submission & Inspection	IWP0 - 7 1187 30-Dec-19	30-Mar-23	36										Statuto
Testing and C	ommissioning		1											
ES0002400	M&E Precomissioning	IWP0 - 7 253 20-Apr-22	28-Dec-22	0									M&E Pred	omissioning
ES0002410	M&E Commissioning	IWP0 - 7 236 13-May-22	03-Jan-23	0									M&E Co	mmissioning
ES0002420	M&E Performance Test	IWP0 - 7 122 04-Jan-23	05-May-23	0										

Summary Bar	Early Bar
Actual Summary	Critical Bar
Actual Work	♦ ♦ Milestone

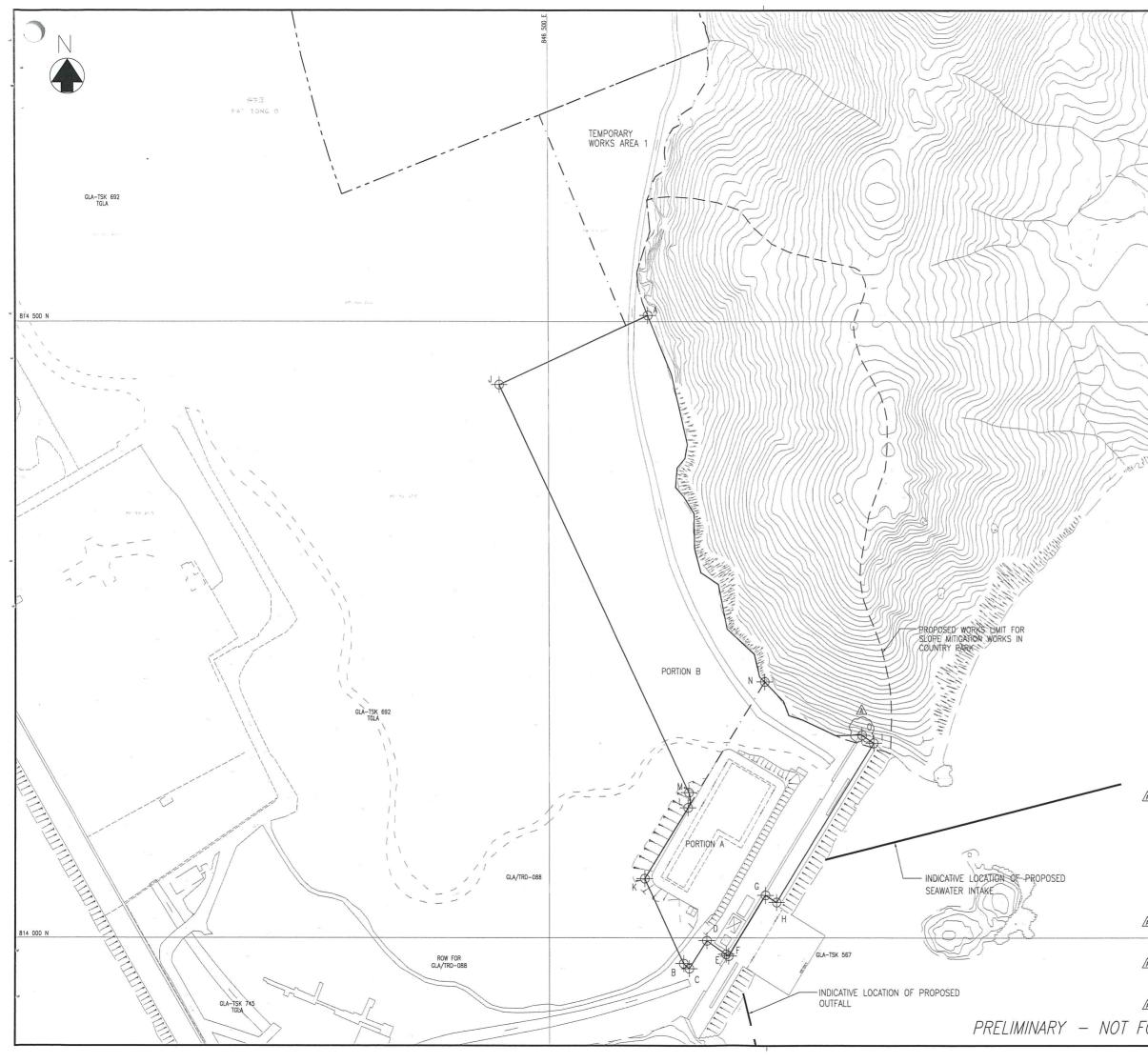




Appendix B

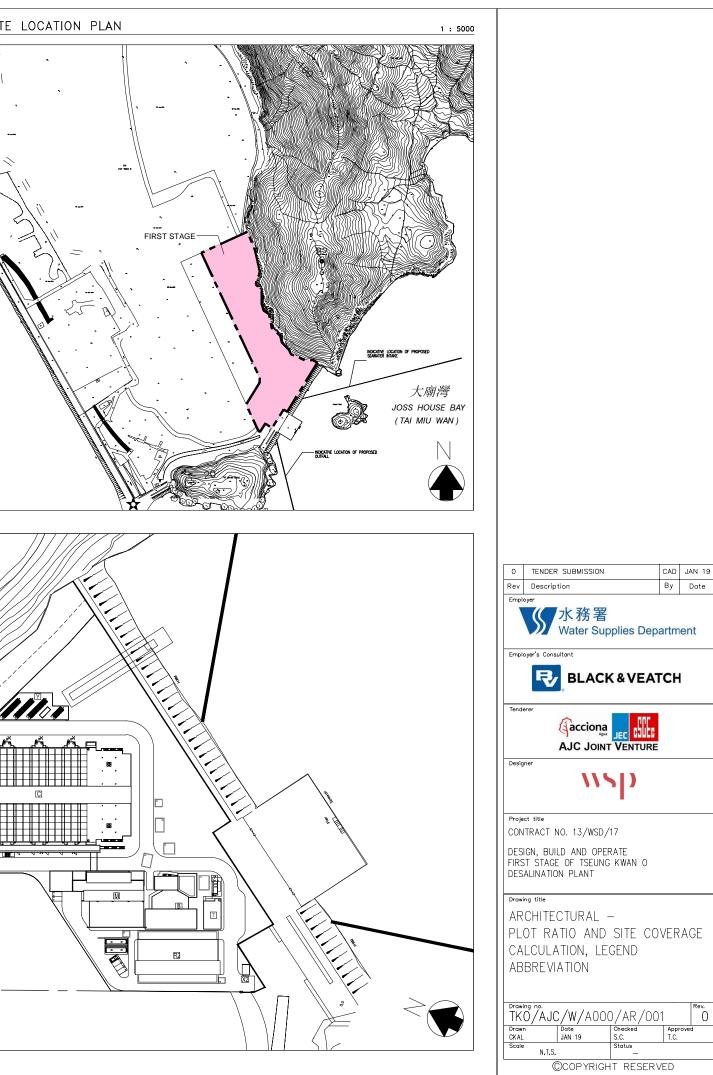
Overview of Desalination Plant in Tseung Kwan O

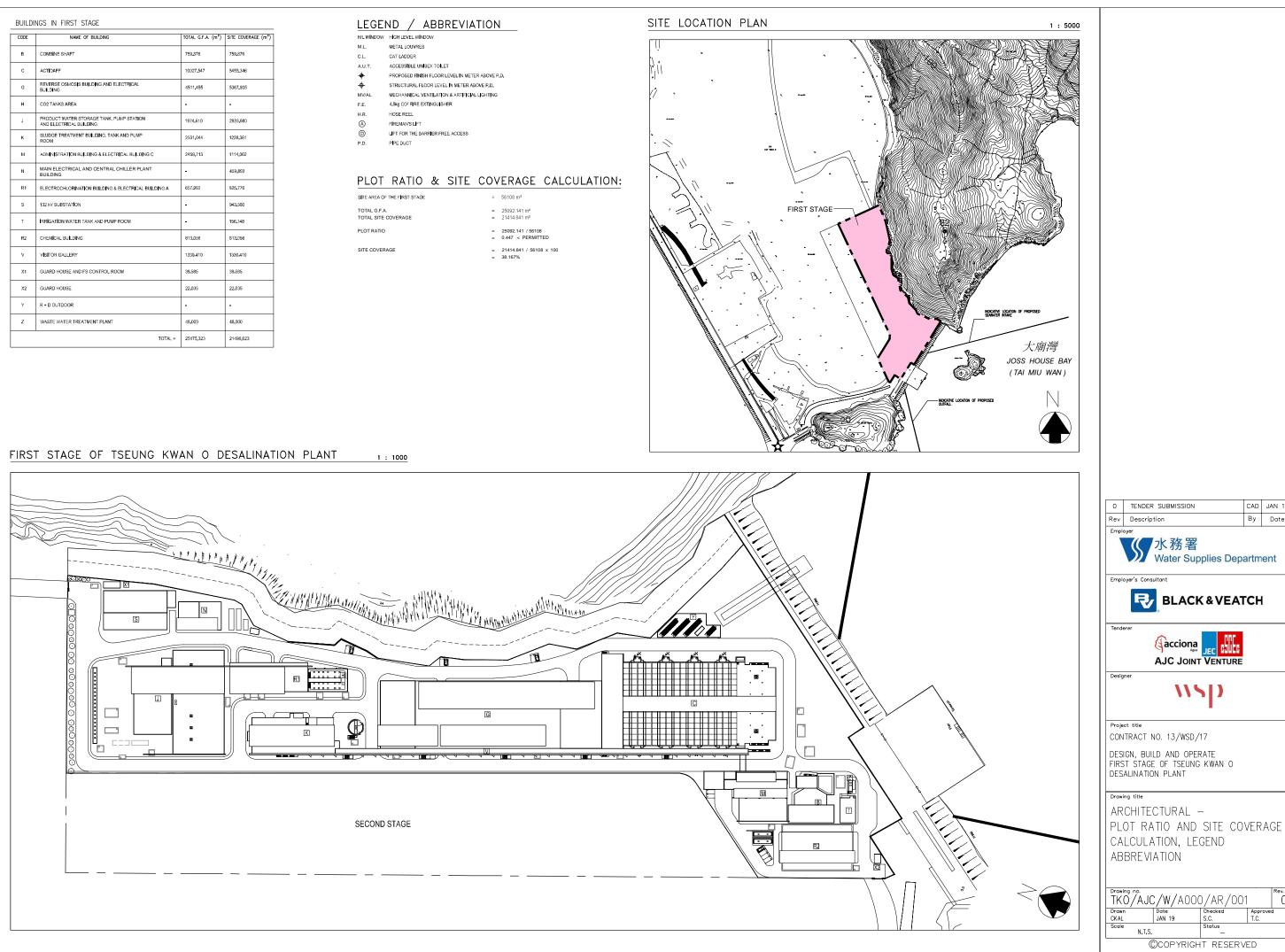
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		D E F G H I J	846614.73 846629.09 846644.75 846646.80 846677.24 846686.56 846766.21 846766.21 846459.65 846578.45	813997.84 813986.74 813985.28 814034.67 814028.89 814158.11 814448.83 814048.11	DESALINATION PLANT Drowing Title SITE HANDOVER WORKS 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
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CODE	NAME OF BUILDING	TOTAL G.F.A. (m ²)	SITE COVERAGE (m ²)
В	COMBINE SHAFT	759.876	759.876
с	ACTIDAFF	10027.547	5455 <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

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	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation Agent	Imple Stage			Implementation	Relevant Legislation & Guidelines
Reference	Mitigation Measures	main concerns to address	imprementation rigent	D	C	0	status	
Air Quality	7							
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)		•		N/A	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)		~		Implemented	



	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation Agent	Imple Stage		ation	Implementation	Relevant Legislation & Guidelines
Reference	Mitigation Measures	main concerns to address	Implementation Agent	D	С	0	status	
S4.8.1	Hoarding of not less than 2.4m high from ground level will be provided along the length of the Project Site boundary.	Land site/ During construction	Contractor(s)	•	 ✓ 		N/A	
S4.8.1	Haul roads will be kept clear of dusty materials and will be sprayed with water so as to maintain the entire road surface wet at all times.	Land site/ During construction	Contractor(s)		•		Implemented	
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, rectified after reminder	
S4.8.1	Stockpiles of more than 20 bags of cement, dry pulverised fuel ash and dusty construction materials will be covered entirely by impervious sheeting sheltered on top and 3- sides.	Land site/ During construction	Contractor(s)		•		Implemented, rectified after reminder	
S4.8.1	All exposed areas will be kept wet always to minimise dust emission.	Land site/ During construction	Contractor(s)		•		Implemented	
S4.8.1	Ultra-low-sulphur diesel (ULSD) will be used for all construction plant on-site, as defined as diesel fuel containing not more than 0.005% sulphur by weight) as stipulated in Environment, Transport and Works Bureau Technical Circular (ETWB-TC(W)) No 19/2005 on Environmental Management on Construction Sites.	Land site/ During construction/ During Operation	Contractor(s)		✓	×	Implemented	Environment, Transport and Works Bureau Technical Circular (ETWB- TC(W)) No 19/2005 on Environmental Management on Construction Sites
S4.8.1	The engine of the construction equipment during idling will be switched off.	Land site/ During construction	Contractor(s)		~		Implemented	



	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation Agent	Imple Stage		ation	Implementation	Relevant Legislation & Guidelines
Reference	Mitigation Measures	main concerns to address	Implementation Agent	D	С	0	status	
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.		Contractor(s)		•		N/A	
S4.8.1	Regular maintenance of construction equipment deployed on-site will be conducted to prevent black smoke emission.	Land site/ During construction	Contractor(s)		 ✓ 		Implemented	
S4.10	To ensure proper implementation of the recommended dust mitigation measures and good construction site practices during the construction phase, environmental site audits on weekly basis is recommended throughout the construction period.	Land site/ During construction	Contractor(s)/ Environmental Team (ET) & Independent Environmental Checker (IEC)		•		Implemented	



EIA	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation	Implen Stage	nenta	tion	Implementation status	A Practical Guide for the Reduction of Noise from Construction Works, A Practical Guide for the Reduction of Noise from Construction Works, A Practical Guide for the Reduction of Noise from Construction Works, A Practical Guide for the Reduction of Noise from Construction Works,	
Referenc	e Measures/ Mitigation Measures	main concerns to address	Agent	D	С	0		& Guidelines	
Noise									
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	the Reduction of Noise from	
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	the Reduction of Noise from	
S5.7	Mobile plant, if any, will be sited as far away from NSRs as possible.	Noise control/ During construction	Contractor(s)		~		N/A	the Reduction of Noise from	
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	Noise control/ During construction	Contractor(s)		•		N/A	A Practical Guide for the Reduction of Noise from Construction Works,	



	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation	Imple Stage	menta	tion	Implementation status	Relevant Legislation & Guidelines
Reference	Measures/ Miligation Measures	main concerns to address	Agent	D	С	0		& Guidennes
	no openings or gaps.							
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
S5.7	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	
\$5.9	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	



EIA	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation	Imple Stage	menta	tion	Implementation status	Relevant Legislation
Reference	Measures/ Mitigation Measures	main concerns to address	Agent	D	С	0		& Guidelines
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 (ET)		~		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)/ Environmental Team (ET) & Independent Environmental Checker (IEC)		~		Implemented	-



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to	Implementation Agent	Impler Stage	nentat	ion	Implementation status	Relevant Legislation & Guidelines
	Measures/ Miligation Measures	address	Agent	D	С	0		Guldelines
Water Quality								
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)		*		N/A	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)		~		N/A	-
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)		•		N/A	-
\$6.9	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)		•		N/A	-
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)		1		N/A	-
S6.9	All vessels must have a clean ballast system.	Marine Dredging/ During construction	Contractor(s)		~		N/A	-
\$6.9	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)		•		N/A	-
S6.9	No soil waste is allowed to be disposed overboard.	Marine Dredging/ During construction	Contractor(s)		1		N/A	-



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	measures & main concerns to Agent Stag	Agent	tage status		Relevant Legislation & Guidelines ProPECC PN 1/94 TM Standard under the WPCO - - ProPECC PN 1/94 ProPECC PN 1/94		
\$6.9	Silt removal facilities such as silt traps or sedimentation facilities will be provided to remove silt particles from runoff to meet the requirements of the TM standard under the WPCO. The design of silt removal facilities will be based on the guidelines provided in ProPECC PN 1/94. All drainage facilities and erosion and sediment control structures will be inspected on a regular basis and maintained to confirm proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit will be removed regularly.	address Land site & drainage/ During construction	Contractor(s)	D	C ×	0	Implemented, rectified after reminder	ProPECC PN 1/94 TM
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	-
\$6.9	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
\$6.9	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	-



EIA Reference	Recommended Environmental Protection	Objectives of the recommended measures & main concerns to	implementation	Imple Stage	ImplementationImplementationStagestatus		-	Effluents Discharged into Drainage and Sewerage Systems Inland and Coastal Waters
	Measures/ Mitigation Measures	address	Agent	D	С	0		Guidelines
\$6.9	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	-
\$6.9	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	-
\$6.9	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	Drainage and Sewerage Systems Inland and Coastal
S6.9	The cleaning and flushing water should also be treated and desilted to the relevant discharge requirement stipulated in TM-DSS before discharging.	Sterilization of water mains prior to commissioning	Contractor(s)		✓	~	N/A	Technical Memorandum for Effluents Discharged into Drainage and Sewerage Systems Inland and Coastal Waters



EIA Reference	Recommended Environmental Protection	Objectives of the recommended measures & main concerns to	Implementation	Implen Stage	nentati	on	Implementation status	Relevant Legislation & Guidelines - - -
	Measures/ Mitigation Measures	address	Agent	D	С	0		Guidennes
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, rectified after reminder.	-
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)/ Environmental Team (ET) & Independent Environmental Checker (IEC)		~		Implemented	-



EIA Reference	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Imple Stage	mentat	ion	Implementation Status	Enhanced Specification for Site Cleanliness and Tidiness. DEVB TC(W) No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness.
	Mitigation Measures	main concerns to address	Agent	D	С	0		Guidelines
Waste Manage							-	
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 mobilisation/ During construction	Contractor(s)				Implemented	-
S8.5	Training of site personnel in proper waste management and chemical handling procedures. Training will be provided to workers on the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling at the beginning of the construction works.	Contract mobilisation/ 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	
\$8.5	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	Enhanced Specification for Site Cleanliness and
S8.5	A waste management plan (WMP) as stated in the <i>"ETWB TC(W) No. 19/2005, Environmental</i> <i>Management on Construction Sites"</i> 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	Management on
\$8.5	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)				Rectified after reminder.	Chapters 2 & 3 Code of Practice on the Packaging, Labelling & Storage of Chemical Wastes published under the Waste Disposal Ordinance (Cap 354), Section 35
S8.5	Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.	Land site/ During construction	Contractor(s)		~		Implemented, rectified after	Waste Disposal Ordinance (Cap 354)



EIA Reference	Recommended Environmental Protection Measures/		Implementation	Implei Stage	nentat	ion	Implementation Status	Relevant Legislation &
	Mitigation Measures	main concerns to address	Agent	D	C	0		Guidelines
							reminder.	
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)		1		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, rectified after observation.	-
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	-
\$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	Marine works/ During	WSD/		✓		Implemented	ETWB TC(W) No. 34/2002



EIA Reference	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Impler Stage	nentat	ion	Implementation Status	Relevant Legislation &
	Mitigation Measures	main concerns to address	Agent	D	С	0		Guidelines
	management requirement from <i>ETWB TC(W)</i> No. 34/2002 will be incorporated in the Specification of the Contract Documents.	e construction	Contractor(s)					and Dumping at Sea Ordinance (DASO)
S8.5	The contractor will open a billing account with EPD in accordance with the Waste Disposal (Charges for Disposal of Construction Waste) Regulation for the payment of disposal charges.	Contract mobilisation/ 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 mobilisation/ During construction	Contractor(s)		-		Implemented	DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials
S8.5	The project proponent will also conduct regular inspection of the waste management measures implemented on site as described in the Waste Management Plan.	All area/ During construction	Contractor(s)/ Environmental Team (ET) & Independent Environmental Checker (IEC)				Implemented	ETWB TC(W) No. 19/2005, Environmental Management on Construction Sites
S8.5	A recording system (similar to summary table as shown in Annex 5 and Annex 6 of Appendix G of ETWB TC(W) No. 19/2005) for the amount of waste generated, recycled and disposed of (including the disposal sites) will be established during the construction phase.	All area/ During construction	Contractor(s)		-		Implemented	Annex 5 and Annex 6 of Appendix G of ETWB TC(W) No. 19/2005
S8.5	Inert C&D materials (public fill) will be reused within the Project as far as practicable.	All area/ During construction	Contractor(s)		1		N/A	-
\$8.5	Public fill and construction waste shall be segregated and stored in different containers or skips to facilitate reuse or recycling of materials and their proper disposal.	All area/ During construction	Contractor(s)		√		Implemented	-
S8.5	Specific areas of the work site will be designated for such segregation and storage if immediate use is not practicable.	All area/ During construction	Contractor(s)		~		Implemented	-
S8.5	To reduce the potential dust and water quality impacts of site formation works, C&D materials will be wetted as quickly as possible to the extent practice after filling.	All area/ During construction	Contractor(s)		√		Implemented	Air Pollution Control (Construction Dust) Regulation (Cap 311R); WPCO (Cap 358)



EIA Reference	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Impler Stage	nentat	ion	Implementation Status	Relevant Legislation & GuidelinesAir Pollution Control (Construction Dust) Regulation (Cap 311R)Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical WastesWaste Disposal (Chemical Waste) (General)
	Mitigation Measures	main concerns to address	Agent	D	C	0		Guidelines
S8.5	Open stockpiles of excavated/ fill materials or construction wastes on-site should be covered with tarpaulin or similar fabric.	Land site/ During Construction, particularly dry season	Contractor(s)		•		Implemented	(Construction Dust)
S8.5	Chemical waste container shall be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed.	All area/ During construction/ During operation	Contractor(s)/ WSD		•	✓	Implemented	Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of
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	Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of
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	Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of
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) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes
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	Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes
\$8.5	Storage areas for chemical waste shall have adequate ventilation.	All area/ During construction/ During operation	Contractor(s)/ WSD		•	•	Implemented	Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes



EIA Reference	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Implei Stage	nentat	ion	Implementation Status	Relevant Legislation & GuidelinesWaste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical WastesWaste Disposal (Chemical
	Mitigation Measures	main concerns to address	Agent	D	С	0	_	Guidelines
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	Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of
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	Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of
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, rectified after reminder	Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of
\$8.5	Adequate number of waste containers will be provided to avoid over-spillage of waste.	All area/ During construction/ During operation	Contractor(s)/ WSD		√	√	Implemented	Enhanced Specification for Site Cleanliness and
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 aluminium 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)		1		Implemented	-
S8.5	The burning of refuse on construction sites is prohibited by law.	All area/ During construction	Contractor(s)		1		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	All facilities/ During construction	ET/ IEC		•		Implemented	-



EIA Reference	Recommended Environmental Protection Measures/	recommended measures & Implementation Sta		Implementation Stage			Status	Relevant Legislation &
	Mitigation Measures	main concerns to address Agent D	C	0		Guidelines		
	implemented throughout the construction phase.							



		Objectives of the	Implementation	Implei	nentat	ion	Implementation	Relevant Legislation &
	Mitigation Measures	recommended measures &	Agent	Stage		1	Status	Guidelines
	5	main concerns to address	ngent	D	C	0		Guidennes
	Ecology				1 2	1		1
S9.7	For slope mitigation works within the Clear Water Bay Country Park, to avoid tree felling and damages to trees, the exact locations of the flexible barrier foundation plates, soil nails and rock dowels can be adjusted during detailed design, and a setback distance from existing trees is recommended to be maintained as far as practical. A detailed specification describing the exact locations of the flexible barrier foundation plates, soil nails and rock dowels will be prepared to illustrate how the setback distance from existing trees would be implemented for tree avoidance.	Slope mitigation works area/ During detailed design/ During construction	Contractor(s)	¥	•		Implemented	-
S9.7	Pruning of tree canopies along the alignment of the flexible barriers shall be limited to a minimum.	Slope mitigation works area/ During construction	Contractor(s)		~		Implemented	
\$9.7	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-</i> <i>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)	V	•		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	-



	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Implementation Stage			Implementation Status	Relevant Legislation & Guidelines
	Mitigation Meacures	main concerns to address	Agent	D	С	0		Guidennes
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 the locations and their importance.	Slope mitigation works area/ During construction	Contractor(s)		*		N/A	-
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)/ Environmental Team (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	-
S9.7	Affected habitats within the Clear Water Bay Country Bay shall be reinstated by hydro-seeding and planting of climbers and native shrub seedlings where practical upon completion of the slope mitigation works.	All area/ During construction	Contractor(s)		~		N/A	-



EIA	Recommended Environmental Protection Measures/ Mitigation	Objectives of the recommended	Implementation				Implementation Status	Relevant Legislation &
Reference	Measures	measures & main concerns to address	Agent	D	C	0		Guidelines
	Landscape & Visual							
S11.10 & 11.11	The construction area and area allowed for temporary structures, such as the contractor's office, will be minimized to a practical minimum. (MM1)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	•	•	~	Implemented	-
S11.10 & 11.11	At the detailed design stage, the design team will seek to minimize the landscape footprint of the Project and above ground facilities, while satisfying all other requirements. (MM2)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	√	•	~	Implemented	-
\$11.10 & 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 (ie without equipment on the roof); - roadside planting; - aesthetic treatment of all structures; - vertical greening; screen planting along application site; and - landscape enhancement with amenity planting where practical including planting along the edge (site boundary) fence with native shrubs where feasible, - to reduce their visual impact and blend them into the surrounding landscape. (MM3)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	·	~	✓	Implemented	-
S11.10 & 11.11	All trees within the Project Site or the potential slope mitigation works area will be carefully protected during construction according to DEVB TCW No. 10/2013 – Tree Preservation (MM4)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	•	•	•	Implemented	ETWB TCW No. 3/2006 - Tree Preservation.
\$11.10 & 11.11	No tree within the Country Park will be felled. Trees within the Site unavoidably affected by the works will be transplanted where necessary and practical. For trees that need to be felled, compensatory planting will be provided to the satisfaction of relevant Government departments. A compensatory tree planting proposal including locations of tree compensation will be submitted to seek relevant government department's approval, in accordance with DEVB TC(W) No. 10/2013. (MM5)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	•	~	•	Implemented	DEVB TC(W) No. 10/2013
S11.10 &	Any slope mitigation works necessary to address natural terrain	All area/ Detailed	WSD/	✓	✓	✓	N/A	



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



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation	Implementation Stage			Implementatior Status	n Relevant Legislation &
		main concerns to address	Agent	D	С	0		Guidelines
	Landfill 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)	•	•		N/A	
S12.7	The Contractor should make the workers are aware of potential hazards of working in confined spaces (any chamber, manhole or culvert which is large enough to permit access to personnel). Such work in confined spaces is controlled by the Factories and Industrial Undertakings (Confined Spaces) Regulations of the Factories and Industrial Undertakings Ordinance. Following the Safety Guide to Working in Confined Spaces ensures compliance with the above regulations.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	✓	✓	•	Implemented	
S12.7	Safety officers, specifically trained with regard to landfill gas and leachate related hazards and the appropriate actions to take in adverse circumstances, should be present on the site throughout the works, in particular, when works are undertaken below grade.	All area/ Detailed design/ During construction/ 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	All area/ Detailed design/ During construction/ During operation	Contractor(s)	•	•	`	Implemented	



EIA Reference	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation		ementa	ation	Implementation Status	n Relevant Legislation & Guidelines
		main concerns to address	Agent	D	C	0		
	physical contact with it.							
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)	*	•	*	N/A	
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)	•	•	•	N/A	
S12.7	Proceed drilling with adequate care and precautions against the potential hazards which may be encountered.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	~	-	•	Implemented	
\$12.7	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)	V	V	•	Implemented	



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Implementation	-	menta	tion	Implementatior Status	Relevant Legislation & Guidelines
			Agent	D	C	0		
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)	×	~	V	N/A	
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	All area/ Detailed design/ During construction/ During operation	Contractor(s)	~	•	•	Implemented	

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



EIA Reference	Recommended Environmental Protection	recommended measures &	Implementation	Imple Stage D	 	Relevant Legislation & Guidelines
	being minimized on-site.					

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



Appendix D

Impact Monitoring Schedule of the Reporting Month

			WSD/17 Design, Build and Operate First Stage of EM&A Water Quality Monitoring Sch Mar-21	-	
Cum.	Mon	Tue		Thu	E.
Sun	Mon	Tue2	Wed	Thu	Fri 5
	I Impact Water Quality monitoring for CE, C WSR4, WSR16, WSR33, W	-, WSR1, WSR2, WSR3,	Water Quality monitoring for CE, CF, WSR1 WSR3, WSR4, WSR16, WSR33, WSR36, W		Water Quality monitor WSR4, WSR16
	<u>Tidal Period:</u> Ebb Tide: 11:08-1 Flood Tide: 05:00- Monitoring Tin	11:08	<u>Tidal Period:</u> Ebb Tide: 12:15-18:10 Flood Tide: 06:00-12:15 <u>Monitoring Time:</u>		Ebb T Flood Mo
	Mid-ebb: 12:05-1 Mid-flood: 08:00-	11:30	Mid-ebb: 13:27-16:57 Mid-flood: 08:00-11:30		Mid- Mid-f
7	8	9	10	11	12
	Impact Water Quality monitoring for CE, C WSR4, WSR16, WSR33, W <u>Tidal Period:</u> Ebb Tide: 07:00-1 Flood Tide: 11:00- <u>Monitoring Tin</u> Mid-ebb: 08:00-1 Mid-flood: 12:19-	SR36, WSR37 1:00 17:09 <u>Ie:</u> 1:30	Impact Water Quality monitoring for CE, CF, WSR1 WSR3, WSR4, WSR16, WSR33, WSR36, W <u>Tidal Period:</u> Ebb Tide: 09:27-12:47 Flood Tide: 12:47-19:17 <u>Monitoring Time:</u> Mid-ebb: 09:22-12:52 Mid-flood:14:17-17:47	v\$R37	Water Quality monitor WSR4, WSR16 Ebb Flood <u>Mi</u> d- Mid-
14	15	16	17	18	19
	Impact Water Quality monitoring for CE, C WSR4, WSR16, WSR33, W <u>Tidal Period:</u> Ebb Tide: 11:00-1 Flood Tide: 05:00- <u>Monitoring Tin</u> Mid-ebb: 12:00-1 Mid-flood: 08:00-	SR36, WSR37 6:30 11:00 <u>le:</u> 5:30	Impact Water Quality monitoring for CE, CF, WSR1 WSR3, WSR4, WSR16, WSR33, WSR36, W <u>Tidal Period:</u> Ebb Tide: 11:34-18:00 Flood Tide: 05:21-11:34 <u>Monitoring Time:</u> Mid-ebb: 13:02-16:32 Mid-flood: 08:00-11:30		Water Quality monitor WSR4, WSR1 Ebb 1 Flood <u>Mid-</u> Mid-
21	22	23	24	25	26
		Impact Water Quality monitoring for CE, CF, WSR1, WSR3, WSR4, WSR16, WSR33, WSR36, W <u>Tidal Period:</u> Ebb Tide: 16:00-23:59 Flood Tide: 01:00-16:00 <u>Monitoring Time:</u> Mid-ebb: 16:00-19:30 [®] Mid-flood: 08:00-11:30	WSR2, R37	Impact Water Quality monitoring for CE, CF, WSR1, WSR2, W. WSR4, WSR16, WSR33, WSR36, WSR37 <u>Tidal Period:</u> Ebb Tide: 08:00-13:00 Flood Tide: 13:00-18:00 <u>Monitoring Time:</u> Mid-ebb: 08:45-12:15 Mid-flood: 13:45-17:15	
28	29	30	31		
		Impact Water Quality monitoring for CE, CF, WSR1, WSR3, WSR4, WSR16, WSR33, WSR36, W <u>Tidal Period:</u> Ebb Tide: 11:00-16:27 Flood Tide: 04:17-11:00 <u>Monitoring Time:</u> Mid-ebb: 11:58-15:28 Mid-flood: 08:00-11:30	WSR2,		

Remarks: Monitoring Parameters: Dissolved oxygen, Temperature, pH, Turbidity, Salinity, Suspended Solids

Note:

Note: * - Due to safety concern of vessel transportation earlier than 0700, Water Quality Monitoring would start at 0800. \$ - Since predicted tide is shorter than 3.5 hours, method of 90% tidal period as monitoring time is adopted. & - Due to safety concern for sampling event in night-time, method of 90% tidal period as monitoring time is approached and end at 1900. # - Prioritized routing: Mid-Ebb: CE→WSR16→WSR37→WSR36→WSR33→Remaining stations and Mid-Flood: CF→WSR1→WSR2→WSR3→WSR4→Remaining stations

	Sat
Immode	6
Impact ng for CE, CF, WSR1, WSR2, WSR3,	
, WSR33, WSR36, WSR37	
Tidal Period:	
ïde: 13:31-20:30 Tide:07:03-13:31	
nitoring Time:	
ebb: 15:15-18:45	
ood: 08:32-12:02	
	13
Impact	
ng for CE, CF, WSR1, WSR2, WSR3, WSR33, WSR36, WSR37	
Tidal Period:	
ide: 10:00-14:31	
Tide: 14:31-21:00 mitoring Time:	
ebb: 10:30-14:00	
ood: 15:30-19:00	
	20
Impact	
ng for CE, CF, WSR1, WSR2, WSR3, , WSR33, WSR36, WSR37	
Fidal Period:	
ide: 12:00-19:25	
Tide: 06:00-12:00	
nitoring Time: ebb: 13:57-17:27	
ood: 08:00-11:30	
	27
	Impact
	Water Quality monitoring for CE, CF, WSR1, WSR2,
	WSR3, WSR4, WSR16, WSR33, WSR36, WSR37 <u>Tidal Period:</u>
	Ebb Tide: 09:10-14:09
	Flood Tide: 14:09-20:00
	Monitoring Time: Mid-ebb:09:54-13:24
	Mid-flood:15:19-18:49



Appendix E

Event/Action Plan for Noise Exceedance



Event	Act	Action							
	ЕТ		IEC		ER		Contractor		
Action Level	1.	Carry out investigation to identify the source and cause of the	1.	Review the analyzed results submitted by the ET	1.	Confirm receipt of Notification of Exceedance in writing	1.	Submit noise mitigation proposals if required, to the IEC and ER	
		complaint/ exceedance(s)	2.	Review the proposed remedial	2.	Require Contractor to propose	2.	Implement noise mitigation	
	2.	Notify IEC, ER, and Contractor and report the results of investigation		measures by the Contractor and advise the ER accordingly		remedial measures for the analysed noise problem		proposals.	
		to the Contractor, ER and the IEC	3.	Supervise the implementation of	3.	Ensure remedial measures are			
	3.	Discuss with the Contractor and		remedial measures		properly implemented			
		IEC for remedial measures required							
	4.	If the complaint is related to the Project, conduct additional monitoring for checking mitigation effectiveness and report the findings and results to the IEC, ER and the Contractor							





Appendix F

Noise Monitoring Equipment Calibration Certificate (BLANK)



(BLANK)



Appendix G

Event/Action Plan for Water Quality Exceedance



Event	Action										
	ET	IEC	SO	Contractor							
Action level being exceeded by one sampling day	Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; Repeat measurement on next day of exceedance. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the SO accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the SO and confirm notification of the non- compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and SO within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)							
Action level being exceeded by more than one consecutive sampling days	Identify source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; Repeat measurement on next working day of exceedance. (The above actions should be taken within 1 working day after Action Level being exceeded by two consecutive sampling days)	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the SO accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after Action Level being exceeded by two consecutive sampling days)	Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented. Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after Action Level being exceeded by two consecutive sampling days)	Inform the SO and confirm notification of the non- compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and SO within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after Action Level being exceeded by two consecutive sampling days)							



Event	Action									
	ET	IEC	SO	Contractor						
Limit level	Inform the SO and confirm	Discuss with ET and	Discuss with IEC, ET and	Inform the SO and confirm						
being exceeded		Contractor on the mitigation	Contractor on the proposed	notification of the non-						
by one	compliance in writing;	measures;	mitigation measures;	compliance in writing;						
sampling day	Rectify unacceptable practice;	Review proposals on	Request Contractor to	Rectify unacceptable practice;						
	Check all plant and	mitigation measures submitted	critically review the working	Check all plant and						
	equipment;	by Contractor and advise the	methods;	equipment;						
	Consider changes of working	SO accordingly;	Make agreement on the	Consider changes of working						
	methods;	Assess the effectiveness of	mitigation measures to be	methods;						
	Discuss with Contractor, IEC	the implemented mitigation	implemented.	Discuss with ET, IEC and SO						
	and SO and propose	measures.	Assess the effectiveness of	and propose mitigation						
	mitigation measures to IEC	(The above actions should be	the implemented measures.	measures to IEC and SO						
	and SO within 3 working days;	taken within 1 working day	(The above actions should be	within 3 working days;						
	Implement the agreed	after the exceedance is	taken within 1 working day	Implement the agreed						
	mitigation measures.	identified)	after the exceedance is	mitigation measures.						
	(The above actions should be		identified)	(The above actions should be						
	taken within 1 working day			taken within 1 working day						
	after the exceedance is			after the exceedance is						
	identified)			identified)						



Event	Action										
	ET	IEC	SO	Contractor							
Limit level being exceeded by more than one consecutive sampling days	Identify source(s) of impact; Inform IEC, Contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods. Discuss mitigation measures with IEC, SO and Contractor. Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days. (The above actions should be taken within 1 working day after Limit Level being exceeded by two consecutive sampling days)	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the SO accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after Limit Level being exceeded by two consecutive sampling days)	Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented. Assess the effectiveness of the implemented measures. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine work until no exceedance of Limit level. (The above actions should be taken within 1 working day after Limit Level being exceeded by two consecutive sampling days)	Inform the SO and confirm notification of the non- compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET, IEC and SO and propose mitigation measures to IEC and SO within 3 working days; Implement the agreed mitigation measures; As directed by the SOR, to slow down or to stop all or part of the marine work or construction activities. (The above actions should be taken within 1 working day after Limit Level being exceeded by two consecutive sampling days)							



Appendix H

Waste Flow Table

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

Appendix H – MA11 Construction Waste Reduction

		Taul Orantina		Actual Quantities of Inert C&D Materials Generated Monthly										
	Total Quantity Generated	Total Quantity Generated	Excavated Material		No	n-excavated Mater	rial			Actual Quantities	of C&D Wastes (Generated Monthly		
Month		(Excluded Excavated Material)	Total Quantity Generated	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed in sorting facility	Broken Concrete of construction waste collected by	Metals	Paper/ cardboard packaging	Plastics	Chemical Waste	Others, e.g. general refuse	
	(al)	(a2)	(b)	(c)	(d)	(e)	(f)	recycling company (g)	(h)	(1)	(i)	(k)	(1)	
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	
Jan-2020	-	-	-	-	-	-	-	-	-	-	-	-	-	
Feb-2020	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mar-2020	0.420	0.420	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.420	
Apr-2020	2.400	2.400	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.400	
May-2020	18.470	18.470	0.000	0.000	0.000	0.000	0.000	0.000	5.900	0.000	0.000	0.000	12.570	
Jun-2020	1116.110	1116.110	0.000	0.000	0.000	0.000	1081.950	0.000	0.000	0.000	0.000	0.000	34.160	
Jul-2020	758.120	758.120	0.000	0.000	0.000	0.000	724.360	0.000	0.000	0.000	0.000	0.000	33.760	
Aug-2020	203.150	203.150	0.000	0.000	0.000	0.000	161.080	0.000	0.000	0.000	0.000	0.000	42.070	
Sep-2020	105.926	105.926	0.000	0.000	0.000	0.000	0.000	0.000	22.766	0.000	0.010	0.000	83.150	
Oct-2020	46.320	46.320	0.000	0.000	0.000	0.000	0.000	0.000	7.050	0.040	0.020	0.000	39.210	
Nov-2020	71.815	71.815	0.000	0.000	0.000	0.000	0.000	0.000	5.351	0.030	0.014	0.000	66.420	
Dec-2020	12934.194	12934.194	0.000	0.000	12860.314	0.000	0.000	0.000	9.912	0.030	0.018	0.000	63.920	
Total	15256.925	15256.925	0.000	0.000	12860.314	0.000	1967.390	0.000	50.979	0.100	0.062	0.000	378.080	

Monthly Summary Waste Flow Table

Total C&D waste generated	15256.925	Tonnes	(ie: al = b+c+d+e+f+g+h+i+j+k+l)
Total C&D waste generated (excluded excavated materials)	15256.925	Tonne	(ie: a2 = c+d+e+f+g+h+i+j+k+l)
Total Recycled C&D Waste	12911.455	Tonne	(ie: a3 = c+d+g+h+i+j)
% of recycled C&D Waste for BEAM Plus MA 11	84.63%		(ie: a3/a2 x 100%)

Notes:

metal, paper & plastic were collected by recycler

(2) The performance target of waste recycling are specified in the Contract.

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

(4) Plastics refer to plastic bottles/ containers, plastic/ foam from packaging material.

(5) Broken concrete for recycling into aggregates

(6) Excavated materials/waste will NOT be considered as part of construction waste. It should be excluded in the calculation

(7) Disposal of inert waste to public fill or sorting facilities will <u>NOT</u> be considered as recycled waste.



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

Appendix H – Monthly Summary Waste Flow Table

Name of Department: WSD

Contract No.: 13/WSD/17

Monthly Summary Waste Flow Table for <u>2021 (year)</u>

		Actual Quar	utities of Inert C&I	D Materials Genera		Actual Quantities	of C&D Wastes (Generated Monthly			
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)
Jan	11823.060	0.000	0.000	11816.130	6.930	0.000	0.000	0.000	0.000	0.000	73.960
Feb	434.090	0.000	0.000	434.090	0.000	0.000	0.007	0.123	0.008	0.000	45.080
Mar	91.710	0.000	0.000	0.000*	91.710	0.000	0.002	0.155	0.010	0.000	122.940
Apr											
May											
Jun											
Sub-total	12348.860	0.000	0.000	12250.220	98.640	0.000	0.009	0.278	0.018	0.000	241.980
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	12348.860	0.000	0.000	12250.220	98.640	0.000	0.009	0.278	0.018	0.000	241.980

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



Acuity Sustainability Consulting Limited

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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: 02/04/2021			Inspected by:	so: Raymond Cok wsd: N/A					
Inspect	ion Time:_	14:30-17:00			havlene Leui ign kam	ILC	IS POWD		
Weath Condi		Sunny	Overcast	Drizzle	Rain	Storm	На	izy	
Tempo	erature	24 C	Humidity	High	Moderate	Low			
Wind		Calm Light	Breeze	Strong					
					ų.			1	
Item	EIA ref.				1.	N/A	Yes	No	Photo/Remarks
No.									
0.00		General					1		
0.01		Is the current Environmental Permit	t displayed cons	picuously at all	vehicle site		V		
		entrances/exits for public's informa	tion at any time	?					
0.02		Is ET Leader's log-book kept readil	y available for i	nspections?					
1.00		Construction Dust							coverel,
1.01	S4.8.1	Are dusty materials, such as excava	ted materials, bu	uilding debris a	nd construction		∇		compaction,
		materials, and exposed earth surface	e properly cover	ed to prevent d	ust emission?			ld	Waterspracy
1.02	S4.8.1	Are screenings, enclosures, water sp	praying or vacuu	um cleaning dev	vices provided to		,		INIATUR SPALINA.
		dusty construction works for dust su	uppression?				\square		Water spraying, Sweening
1.03	S4.8.1	Are fumes or smoke emitting plants	or construction	activities shiel	ded by a screen?				
							\square		
1.04	S4.8.1	Are wheel-washing facilities with h	igh-pressure wa	ter jets provide	d at all site exits?				
							\checkmark		
1.05	S4.8.1	Is wheel-washing provided to all ve	hicles leaving th	ne site?					
									-
1.06	S4.8.1	Are road section near the site exit fr	ee from dusty m	naterial?					
1.07	S4.8.1	Are all main haul roads inside the si	ite payed or spra	wed with water	to minimize dust				
	54.0.1	emission during vehicle movement		iyeu witii watei	to minimize dust		\checkmark		Taveattsprayed
1.08	S4.8.1	Are water spraying provided immed		ny loading or ti	ansfer of dusty				
	0	materials?	inatory prior to a	ing fouring of th	unbior of dubty		\checkmark		
1.09	S4.8.1	Are covers provided to all dump tru	cks carrying dus	sty materials w	nen entering and				he he lie
		leaving the site?	, , -			\checkmark			Mohm typuls
1.10	S4.8.1	Are the working areas for uprooting	g of trees, shrubs	, or vegetation	or the removal of				
		boulders, poles, pillars sprayed with							
1.11	S4.8.1	Is exposed earth properly treated wi	ithin six months	after the last co	onstruction activity	y			
		on site?					\checkmark		

2/3

1.12 S4.8.1

Does the operation of plants on site free form dark smoke emission?

J NEMMIAL

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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?		\checkmark		
1.14	S4.8.1	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides?	\checkmark			
	S4.8.1	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?	\checkmark			
1.16	S4.8.1	Are hoarding of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?		V		
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?		\square		Varme law
2.02	S5.7	Are the PMEs operating on site well-maintained to minimize the generation of excessive niose?		\checkmark		Vrogular inspection
2.03	S5.7	Are plants throttled down or turned off when not in use?		\checkmark		
2.04	S5.7	Are the plants known to emit noise strongly in one direction oriented to face away from NSRs?	V		<u> </u>	Nonearly WSR
2.05	S5.7	Are moveable barriers provided to screen NSRs from plant or noisy operations?	V		\Box_{1}	
2.06		Are silencers, mufflers and enclosures provided to plants?	\square			
2.07	S5.7	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?		\square		
2.08	S5.7	Are purposely-built site hoarding construction with appropriate materials provided along the site boundary?		\checkmark		
2.09	S5.7	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers?		\checkmark		
2.10	S5.7	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?	V			5
2.11		Are valid noise emission label(s) affixed to all air compressors operating on site?	Ţ.			
	S5.7	Are all construction noise permit(s) applied for percussive piling work?	\checkmark			
2.13	85.7	Are construction noise permit(s) applied for general construction works during restricted hours?		ノ		
	S5.7	Are valid construction noise permit(s) displayed at all vehicular exits?		\Box		
3.00		Water Quality				
	S6.9	Is effluent discharge license obtained for wastewater discharge from site?		\checkmark		
3.02	2	Is effluent discharged according to the effluent discharge license?		\checkmark		-
3.03	\$6.9	Is wastewater discharge from site properly treated prior to discharge?		Í		



7

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3.04 S6.9 Are perimeter channels provided to intercept storm runoff from outside the site? Image: Constraint of 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? Image: Constraint of the site? 3.06 S6.9 Is surface runoff diverted to sedimentation facilities? Image: Constraint of the site? 3.07 S6.9 Is the drainage system properly maintained? Image: Constraint of the site?	Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
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3.08 S6.9 Are construction works carefully programmed to minimize soil excavation works during rainy seasons?	3.06	S6.9	Is surface runoff diverted to sedimentation facilities?		\checkmark		**************************************
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suspended solids to nearby sensitive receivers?	3.23	S6.9	Is concrete washing water properly collected and treated prior to discharge?	\checkmark			
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	3.25	S6.9		/	_		



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

Item	EIA ref.		NI/A	Vaa	Me	Dist /D
No.			N/A	Yes	No	Photo/Remarks
	S6.9	Is closed grab dredger of 3 to 6 m ³ used for dredging at seawater intake?	ブ			
	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		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 $750 \text{ m}^3/\text{day}$ while the maximum allowed dredging rate at the submarine outfall is $3,500 \text{ m}^3/\text{day}$?				
	\$6.9	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		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?				
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?	\checkmark			
3.37	na yoona	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?				2
3.39 3.40	S6.9	Are all vessels well maintained and inspected before use to limit any potential discharges to the marine environment?	1			
		Is any discharge of sewage/grey wastewater? Is wastewater from potentially contaminated area on working vessels should be minimized and collected?	\checkmark			
3.41	S6.9	Is any soil waste disposed overboard?	\checkmark			

2/3



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
4.00		Waste Management				Ŧ
4.01	S8.5	Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills?		\checkmark		2
4.02	S8.5	Is a recording system implemented to record the amount of wastes generated, recycled and disposed of?		\checkmark		
4.03	S8.5	IS the Contractor registered as a chemical waste producer?		V		
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?	\checkmark			
4.06	S8.5	Is chemical waste reused and recycled on site as far as practicable?	\checkmark			
4.07	S8.5	Are all containers for chemical waste properly labelled?		\checkmark		
4.08	S8.5	Is chemical waste storage area used solely for storage of chemical waste and properly labelled?		\checkmark		
4.09	S8.5	Are incompatible chemical wastes stored in different areas?	\Box			
4.10	S8.5	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?		/		12
4.11	S8.5	Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or of 20% by volume of the chemical waste stored in that area, whichever is the greatest, provide?		\checkmark		
4.12	S8.5	Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors?		\checkmark		reminder (1)
4.13	S8.5	Are sufficient general refuse disposal/collection points provided on site?				reminder (1) Nemnoler (3)
4.14	S8.5	Is general refuse disposed of properly and regularly?		\checkmark		
4.15	S8.5	Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste?		\square		
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 wastes sorted on site?		\checkmark		
4.18	S8.5	Are C&D waste disposed of properly?		\checkmark		
4.19	S8.5	Are unused C&D materials or chemicals recycled or reused to reduce the quantity of waste?		Day -		
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.		1				
	1					
4.21	S8.5	Are the construction materials stored properly to minimize the potential for damage or				
		contamination?				21
4.22	S8.5	Is a dumping license obtained to deliver public fill to public filling areas?				10110 Co. 1
5.00		Y Y Y Y				
5.00		Landscape and Visual				
5.01	S11.10	Are Is site hoarding provided?				×.
	& 11.11		· ·			
5.02	S11.10 &	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?				
	11.11			V	1	
5.03	S11.10 &	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?	r			···#1.00107. ····
	& 11.11			\checkmark		
5.05	S11.10 &	Are damages to trees outside site boundary due construction works avoided?				
	11.11					
5.06	S11.10 &	Is excavation works carried out manually instead of machinery operation within 2.5m				
	11.11	vicinity of any preserved trees?	\checkmark			
5.07		Are the retained and transplanted tree(s) properly protected and in good conditions?				
0.07	11.11 a	Are the retained and transplanted tree(s) property protected and in good conditions?	\checkmark			
5.00						
5.08	11.11 æ	Are surgery works carried out for damaged trees?	Ń			
6.00		Ecology				
6.01	S9.7	Is site runoff properly treated to prevent any silly runoff?				
				\checkmark		
6.02	S9.7	Are silt trap installed and well-maintained?				remainers
		к		V		NWWWWW ()
6.03	S9.7	Are stockpiles properly covered to avoid generating silty runoff?				
				V		
6.04	S9.7	Are construction works restricted to works area which are clearly defined?			·	
				V		
6.05	S9.7	For slope mitigation works within the Clear Water Bay Country Park, are tree felling and		<u> </u>		
		damages to trees, the exact locations of the flexible barrier foundation plates, soil nails and		V		
		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?	\checkmark			
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	\checkmark	× .		
		alignment of flexible barriers positioned at minimum 1.5 m in a radius away from these				
		individuals?				~
6.08		At the detailed design stage prior to the commencement of the slope mitigation works, is				
		vegetation survey carried out at the slope mitigation areas within the Clear Water Bay		N		
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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.						
		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?				
6.10	50.7					
0.10	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	\Box			
		the flexible barriers prepared to protect the species?		<u> </u>		
6.11	507	Is any induction training provided to all site personnel in order to brief them on this flora of	4	1		
0.11	39.1	conservation interest including the locations and their importance?				
6.12	\$0.7	Is the resident site supervisory staff closely monitor the conditions of concerned				
0.12	39.1	individuals during construction of flexible barriers in the close proximity?	V			
6.13	50.7	Are fences erected along the boundary of the works area before the commencement of				
0.13	39.7	works to prevent vehicle movements and encroachment of personnel onto adjacent areas?	JAN S	∇		
6.14	50.7					
0.14	59.7	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?				
0.45	00.7					
6.15	59.7	Is any damage and disturbance avoided, particularly those caused by filling and illegal		V		
0.10		dumping, to the surrounding habitats through proper management of waste disposal?				
6.16	\$9.7	Are temporarily affected areas reinstated, particularly the habitats of plantation and				
		shrubland-grassland immediately after completion of construction works, through on-site				Alimaticity and a
6.45	0.7	tree/shrub planting?				
6.15	59.7	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?				demonstration of the second
7.00		Landfill Gas Hazard			1000 - 10 - 10 - 10 - 10 - 10 - 10 - 10	
7.01	S12.7	Are the safety procedures implemented to minimise the risks of fires and explosions,				
/.01	012.7	asphyxiation of works and toxicity effects during all works?	V			
7.02	S12.7					
7.02	512.7	Are the gas detection equipment and precautions being used during trenching and				
		excavation as well as creation of confined spaces?	v			
					-	
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	1			
	R	ignition of gas, the possible presence of contaminated water and the need to avoid				8
		physical contact?	L]	L]		
2	2					



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	S12.7	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?	J			
7.08	S12.7	Is the drilling proceeded with adequate care and precautions against the potential hazards?	\checkmark			
7.09	S12.7	Is the method statement covering all normal and emergency procedures provided by the drilling contractor prior to the commencement of the site works?				
7.10	\$12.7	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			
	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?	\checkmark			
8.00		Overall				
8.01		Is the EM&A properly implemented in general?				



Acuity Sustainability Consulting Limited Unit C, 11/F., Ford Glory Plaza, No. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon

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

Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: Romineter (5) (1) General wasle melenious should be cleared regulary from the drainege durnel wer ActionAFF Area. detached. (2) Connections of the sinner silt curtain now observed . The contractor was reminded to take icitilication autions of . (3) The contractor was consider that covers dwald be added to general masterins to reduce. by givene and safety concerns. Observation (S) () Chennicaus were not placed move a drip tray war. KATSJ. By Subject the Product (water storpe tank Signatures: ET Contractor's Supervising Officer's IEC's WSD's Representative Representative Representative Representative Representative NIA (Name: Charlene Long (Name: Bran Kan (Name: Low 9) (Name: (Name: NIA) 2/3/202 KWan



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

WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspection Date: Inspection Time:	10372021	0	Inspected by:	ET: Contractor:	ymond kok.	SO: Kan IEC: Lora	ymonel lok wsb:_ is kwan	NIR .
Weather	1			,				
Condition	Sunny	Fine	Overcast	Drizzle	Rain	Storm	Hazy	
Temperature	22 c		Humidity	High	Moderate	Low		
Wind	Calm	Light	Breeze	Strong				

Construction General 0.01 Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time? Image: Construction Dust 0.02 Is ET Leader's log-book kept readily available for inspections? Image: Construction Dust 1.00 Construction Dust Image: Construction Dust Image: Construction Dust 1.01 S4.8.1 Are dusty materials, such as exeavated materials, building debris and construction materials, and exposed earth surface property covered to prevent dust emission? Image: Construction Works for dust suppression? 1.02 S4.8.1 Are fumes or smoke emitting plants or construction activities shielded by a screen? Image: Construction Works for dust suppression? 1.03 S4.8.1 Are fumes or smoke emitting plants or construction activities shielded by a screen? Image: Construction Works for dust suppression? 1.04 S4.8.1 Are wheel-washing facilities with high-pressure water jets provided at all site exits? Image: Construction Provided to all vehicles leaving the site? 1.05 S4.8.1 Are end acction near the site exit free from dusty material? Image: Construction Provided to all vehicles leaving the site? 1.06 S4.8.1 Are water spraying provided immediately prior to any loading or transfer of dusty material? Image: Construction Provided to all dump trucks carryi	Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
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Page 1 of 9



Acuity Sustainability Consulting Limited

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Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
	S4.8.1	Are vehicles travelling at speed not exceeding 15km/hr within the site?		V		
	S4.8.1	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides?	V			
	S4.8.1	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?	J			
	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?				
2.00		Construction Noise (Airborne)				
2.01	85.7	Are quiet plants adopted on site?		J		12 Moise Care
2.02	S5.7	Are the PMEs operating on site well-maintained to minimize the generation of excessive niose?		1		regular MSPEquen
2.03	S5.7	Are plants throttled down or turned off when not in use?		\checkmark		5
2.04	\$5.7	Are the plants known to emit noise strongly in one direction oriented to face away from NSRs?	1			6 NO NORMAN
2.05	S5.7	Are moveable barriers provided to screen NSRs from plant or noisy operations?				NSR.
	S5.7	Are silencers, mufflers and enclosures provided to plants?	5			
2.07	S5.7	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?		\checkmark		
2.08	S5.7	Are purposely-built site hoarding construction with appropriate materials provided along the site boundary?		\checkmark		
2.09	S5.7	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers?		1		
2.10	S5.7	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?				
	S5.7	Are valid noise emission label(s) affixed to all air compressors operating on site?	V			
2.12	S5.7	Are all construction noise permit(s) applied for percussive piling work?	\checkmark			
2.13		Are construction noise permit(s) applied for general construction works during restricted hours?				
	S5.7	Are valid construction noise permit(s) displayed at all vehicular exits?		1		
3.00		Water Quality				
		Is effluent discharge license obtained for wastewater discharge from site?		\checkmark		
3.02	\$6.9	Is effluent discharged according to the effluent discharge license?		\checkmark		
3.03	S6.9	Is wastewater discharge from site properly treated prior to discharge?				



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

3.16 S6.9 Are there any measures to prevent the release of oil and grease into the storm drainage system? Image: system? Image: system? 3.17 S6.9 Are the oil interceptors/ grease traps properly maintained? Image: system? 3.18 S6.9 Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams? Image: system? 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? Image: system? 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? Image: system? 3.21 S6.9 Are sewage disposal and toilet maintenance of the portable chemical toilets provided to site to handle sewage? Image: system? 3.22 S6.9 Is concrete washing water properly collected and treated prior to discharge? Image: system? 3.24 S6.9 Is suitable type of silt curtains deployed during dredging to reduce the elevation of suspended solids to nearby sensitive receivers? Image: system?	Item	EIA ref.		N/A	Yes	No	Photo/Remarks
3.05 S6.9 Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to enous sand/silt removal facilities from runoff? 3.06 S6.9 Is surface runoff diverted to sedimentation facilities? Image: system property maintained? 3.07 S6.9 Is the dramage system property maintained? Image: system property maintained? 3.08 S6.9 Are construction works carefully programmed to minimize soil excervation works Image: system property maintained? 3.08 S6.9 Are exposed soil surface protected by paving as soon as possible to reduce the potential of soil erosion? Image: system? 3.09 S6.9 Are exposed soil surface protected by crusted gravel? Image: system? Image: system? 3.10 S6.9 Are exposed slope surface properly protected? Image: system? Image: system? 3.11 S6.9 Are exposed slope surface properly protected? Image: system? Image: system? 3.12 S6.9 Are exposed slope surface properly protected? Image: system? Image: system? 3.12 S6.9 Are exposed slope surface properly protected? Image: system? Image: system? 3.13 S6.9 Are temport succions after excurvation? Image: system? Imagee syst							
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fabric during construction? Image: sequence of the sequence of t			backfilled in short sections after excavation?		\vee		
3.14 \$6.9 Is runoff from wheel-washing facilities avoided? Image: second	3.13	S6.9	Are open stockpiles of construction materials on site covered by tarpaulin or similar				
3.15 S6.9 Is oil leakage or spillage prevented? Image: spillage prevented? 3.16 S6.9 Are there any measures to prevent the release of oil and grease into the storm drainage system? Image: spillage prevented? Image: spillage prevented? 3.17 S6.9 Are there oil interceptors/ grease traps properly maintained? Image: spillage prevented? Image: spillage prevented? 3.18 S6.9 Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams? Image: spillage prevented? Image: spillage prevented? 3.18 S6.9 Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams? Image: spillage prevented? Image: spillage prevented? 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? Image: spillage prevented prevent			fabric during construction?		V		
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3.17 S6.9 Are the oil interceptors/ grease traps properly maintained? Image system? 3.17 S6.9 Are the oil interceptors/ grease traps properly maintained? Image system? 3.18 S6.9 Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams? Image system? Image system? 3.18 S6.9 Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams? Image system? Image system? 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? Image system? Image system? 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? Image system? Image system? 3.21 S6.9 Are sufficient chemical toilets provided on site to handle sewage from construction work force? Image system? Image system? 3.22 S6.9 Are sewage disposal and toilet maintenance of the portable chemical toilets provided system? Image system? Image system? 3.23 S6.9 Is concrete washing water properly collected and treated prior to discharge? Image system?	3.16	\$6.9	Are there any measures to prevent the release of oil and grease into the storm				MARN
3.17 S6.9 Are the oil interceptors/ grease traps properly maintained? Image: Construction of the second of t			drainage system?		\checkmark		263 (J)
avoid them entering the streams? Image: streams? 3.19 S6.9 Are all fuel tanks and storage areas provided with locks and be sited on sealed areas, within bunds of capacity equal to 110% of the storage capacity of the largest tank? Image: storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains? 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? Image: storage area bunded on site to handle sewage from construction work force? 3.21 S6.9 Are sufficient chemical toilets provided on site to handle sewage from construction work force? Image: storage area bunded and treated prior to discharge? 3.22 S6.9 Are sewage disposal and toilet maintenance of the portable chemical toilets provided py the licensed contractors? Image: storage? 3.23 S6.9 Is concrete washing water properly collected and treated prior to discharge? Image: storage? 3.24 S6.9 Is suitable type of silt curtains deployed during dredging to reduce the elevation of suspended solids to nearby sensitive receivers? Image: storage?	3.17	S6.9	Are the oil interceptors/ grease traps properly maintained?	V			
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? Image: Comparison of Comp	3.18	S6.9	Are debris and rubbish generated on site collected, handled and disposed of properly				
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3.23 S6.9 Is concrete washing water properly collected and treated prior to discharge? 3.24 S6.9 Is suitable type of silt curtains deployed during dredging to reduce the elevation of suspended solids to nearby sensitive receivers?	3.22	S6.9	Are sewage disposal and toilet maintenance of the portable chemical toilets provided	A S			and the second
3.24 S6.9 Is suitable type of silt curtains deployed during dredging to reduce the elevation of suspended solids to nearby sensitive receivers? Image: Construction of the suspended solids to nearby sensitive receivers?				S	V		
suspended solids to nearby sensitive receivers?	3.23	S6.9	Is concrete washing water properly collected and treated prior to discharge?	V			
suspended solids to nearby sensitive receivers?	3.24	S6.9	Is suitable type of silt curtains deployed during dredging to reduce the elevation of	-h			and a second second
3 25 S6 9 Is closed grab dredger used to reduce the potential leakage of sedimente?				V			
size poss is crossed grab drouger used to reduce the potential leakage of sediments?	3.25	S6.9	Is closed grab dredger used to reduce the potential leakage of sediments?				

913

Page 3 of 9



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
3.26	S6.9	Is closed grab dredger of 3 to 6 m ³ used for dredging at seawater intake?	ſ			
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?				
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		L		e.
2.24	0(0	(DASO)?				
3.31	50.9	Are disposal vessels fitted with tight bottom seals in order to prevent leakage of				
3.32	86.0	material during transport? Are barges filled to a level which ensures that material does not spill over during				
0.02	30.9	transport to the disposal site and that adequate freeboard is maintained to ensure that	V			
		the decks are not washed by wave action?				
3.33	\$6.9	Are excess materials cleaned from decks and exposed fittings before the vessel is	/			
0.00	50.5	moved from the dredging area after dredging?	i			
3.34	\$6.9	Are the contractor(s) confirmed that the works cause no visible foam, oil, grease,				
	50.5	litter or other objectionable matter to be present in the water within and adjacent	V			
ж. Т		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	V			
		the hold or a hopper?				
3.36	\$6.9	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	V			
		generated by turbulence from vessel movement or propeller wash?	1			
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?		\Box		
3.39	- 15	Are all vessels well maintained and inspected before use to limit any potential				
		discharges to the marine environment?				
3.40		Is any discharge of sewage/grey wastewater? Is wastewater from potentially	V	\square		
		contaminated area on working vessels should be minimized and collected?	,			
3.41	\$6.9	Is any soil waste disposed overboard?				
					а В	5. °

913

Page 4 of 9



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.						
4.00		Waste Management				
4.01	S8.5	Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at				
		public filling facilities and landfills?		\checkmark		
4.02	S8.5	Is a recording system implemented to record the amount of wastes generated, recycled and				
		disposed of?		V		
4.03	S8 5	IS the Contractor registered as a chemical waste producer?				
	50.5			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?				
			V			
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?				
				V		
4.08	S8.5	Is chemical waste storage area used solely for storage of chemical waste and properly				
		labelled?		V		
4.09	S8.5	Are incompatible chemical wastes stored in different areas?				
55			V			
4.10	S8.5	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?				
				s.		
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,		9		
		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?		Ľ,		
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?				and lalos
				Ŵ		reviseder (2)
4.15	S8.5	Are appropriate measures adopted to minimize windblown litter and dust during				second ad enter
		transportation of waste?		V		reminderly
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 wastes sorted on site?				
4.18	S8.5	Are C&D waste disposed of properly?				
				V		
4.19	S8.5	Are unused C&D materials or chemicals recycled or reused to reduce the quantity of				
		waste?	V			
4.20	S8.5	Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?		1		
				v		Vebav

913

Page 5 of 9



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	S8.5	Are the construction materials stored properly to minimize the potential for damage or				
		contamination?		\checkmark		remindertb
4.22	S8.5	Is a dumping license obtained to deliver public fill to public filling areas?				2010 2010 000 2
				V		
5.00		Landscape and Visual				
5.01	S11.10	Are Is site hoarding provided?				
	& 11.11		\checkmark			
5.02	S11.10 &	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?				
	11.11			V		
5.03	S11.10 &	Is construction light oriented away from the sensitive receivers?				
	11.11		\checkmark			
5.04	S11.10	Is grass hydroseeding provided to slopes as soon as the completion of works?				
	& 11.11			V		
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?	V			
5.07	S11.10 &	Are the retained and transplanted tree(s) properly protected and in good conditions?				
	11.11		V			
5.08	S11.10 &	Are surgery works carried out for damaged trees?	\Box			
	11.11		V			-
6.00		Ecology				
6.01	S9.7	Is site runoff properly treated to prevent any silly runoff?				
				V		<i>и</i> .
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?				
			•	V		
6.04	S9.7	Are construction works restricted to works area which are clearly defined?				
				V		
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		1		
		rock dowels adjusted during detailed design, and a setback distance from existing trees is				
		recommended to be maintained as far as practical?	,			
6.06		Are pruning of tree canopies along the alignment of the flexible barriers limited to a				
		minimum?				
6.07		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	- CO			
		alignment of flexible barriers positioned at minimum 1.5 m in a radius away from these				
0.00		individuals?		/		
6.08		At the detailed design stage prior to the commencement of the slope mitigation works, is		\checkmark		
		vegetation survey carried out at the slope mitigation areas within the Clear Water Bay				

Page 6 of 9



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	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				
		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				
		other flora species of conservation interest, if found) adjacent to the proposed alignment of	V			
		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				21
		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				
		individuals during construction of flexible barriers in the close proximity?	/			
6.13	S9.7	Are fences erected along the boundary of the works area before the commencement of				renninder(1)
		works to prevent vehicle movements and encroachment of personnel onto adjacent areas?		V		(mouse)
6.14	S9.7	Is regular check of the work site boundaries performed to ensure that they are not breached				
	57.1	and that damage does not occur to surrounding areas?		V		
6.15	S9.7	Is any damage and disturbance avoided, particularly those caused by filling and illegal				
0.10	57.7	dumping, to the surrounding habitats through proper management of waste disposal?				
0.10	00.7					
6.16	59.7	Are temporarily affected areas reinstated, particularly the habitats of plantation and		\square		
		shrubland-grassland immediately after completion of construction works, through on-site tree/shrub planting?				
6.15	S9.7	Are affected habitats within the Clear Water Bay Country Bay reinstated by hydro-seeding	AD 1			
0.15	59.1		1			
		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	11 ADDRESS AND ADDRESS - ADDRESS ADDRES ADDRESS ADDRESS ADD	-			
7.01	512.7	Are the safety procedures implemented to minimise the risks of fires and explosions,	V			
		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	A			
		excavation as well as creation of confined spaces?	V			
7.03	S12.7	Are the training with regard to the awareness of potential hazards of working in	1			
		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?				
			V			
7.05	S12.7	Are the all personnel working on site and all visitor made aware of the possibility of				
1.00	512.7	ignition of gas, the possible presence of contaminated water and the need to avoid				
			V			
		physical contact?				
			5			e

913

Page **7** of **9**



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
7.06	S12.7	Is the monitoring of landfill gas being undertaken in all excavations, manholes, chambers and any confined spaces?	1			
7.07	S12.7	Are the monitoring frequency and areas being specified by the safety officers or appropriately qualified person? Are the all measurements being recorded and documented?				
7.08	S12.7	Is the drilling proceeded with adequate care and precautions against the potential hazards?	1			
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			
	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?	V			
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?	-J			
	S12.7	Are the warning signs of the hazards of landfill gas and its possible presence on site posted in prominent places?	\checkmark		•	
8.00		Overall		/		
8.01		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: (1) chemicals were not placed on a drip tray at combine shelt area.s observation (3) product water and & formwork Area storen storage tonk hobar avec. Remindur (b) Hundleeping was verninded at tots, formwork, as ... Construction nationals shell not be placed than the country parle Area. in replan collection of the general waves should be consulted to limit hygene oncerns out 132 tor near Ants. Doff area. Regner Cleaning of drip tray should be conducted to preventitue product water storage tank. (3) overflow of chumical at protecting another and Copation chaft Signatures: ET Contractor's Supervising Officer's IEC's WSD's Representative Representative Representative Representative Representative NUA (Name: cherweigh (Name: Brien Kan) (Name: Reserved (Name: Long) (Name: MA Kwan 913 913/202



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

WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspection Date: 1613/2021	Inspected by:	ET: Charleme Lan Contractor: Theany Trang	so: <u>Raymond Kok</u> wsb: <u>NMA</u> IEC: Laugo kwan
Inspection Time: 14 30 - 17:200			
Weather			
Condition	Overcast	Drizzle Rain	Storm Hazy
Temperature	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?		\checkmark		
0.02		Is ET Leader's log-book kept readily available for inspections?		V		
1.00		Construction Dust		er ar L		
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		reminaler (4)
1.02	S4.8.1	Are screenings, enclosures, water spraying or vacuum cleaning devices provided to dusty construction works for dust suppression?				reminder (4) reminder (4) Screening
1.03	S4.8.1	Are fumes or smoke emitting plants or construction activities shielded by a screen?	\checkmark			No time/smalle constitute plant/ canto nations activity.
1.04	S4.8.1	Are wheel-washing facilities with high-pressure water jets provided at all site exits?		\checkmark		
1.05	S4.8.1	Is wheel-washing provided to all vehicles leaving the site?		\checkmark		
1.06	S4.8.1	Are road section near the site exit free from dusty material?		\checkmark		
1.07	S4.8.1	Are all main haul roads inside the site paved or sprayed with water to minimize dust emission during vehicle movement?		V		jored.
1.08	S4.8.1	Are water spraying provided immediately prior to any loading or transfer of dusty materials?				the per day.
1.09	S4.8.1	Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site?				
1.10	S4.8.1	Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of boulders, poles, pillars sprayed with water to maintain the entire surface wet?	\checkmark			
1.11	S4.8.1	Is exposed earth properly treated within six months after the last construction activity on site?		\checkmark		/ Ophypaution
1.12	S4.8.1	Does the operation of plants on site free form dark smoke emission?		\checkmark		UNKOWIN MULLA



Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
	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?				
1.15	S4.8.1	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?	\checkmark			
1.16	S4.8.1	Are hoarding of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?				
1.17	S4.8.1	Is open burning prohibited?				
2.00		Construction Noise (Airborne)				
2.01	S5.7	Are quiet plants adopted on site?				VNDBe law
2.02	S5.7	Are the PMEs operating on site well-maintained to minimize the generation of excessive niose?		\checkmark		V pegular In Spection
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?	\checkmark			6 monearly
2.05	S5.7	Are moveable barriers provided to screen NSRs from plant or noisy operations?	\checkmark) osk.
2.06		Are silencers, mufflers and enclosures provided to plants?	5			
	S5.7	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?		J		
2.08		Are purposely-built site hoarding construction with appropriate materials provided along the site boundary?		\checkmark		
2.09	S5.7	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers?				
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	\$5.7	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?		1		
2.14		Are valid construction noise permit(s) displayed at all vehicular exits?				
3.00		Water Quality		1		
3.01		Is effluent discharge license obtained for wastewater discharge from site?		1		
3.02		Is effluent discharged according to the effluent discharge license?		\checkmark		
3.03	S6.9	Is wastewater discharge from site properly treated prior to discharge?				



Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.					8 18	
3.04	\$6.9	Are perimeter channels provided to intercept storm runoff from outside the site?		\checkmark		
3.05	\$6.9	Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to				
		remove sand/silt particles from runoff?		V		
3.06	S6.9	Is surface runoff diverted to sedimentation facilities?		J		
3.07	S6.9	Is the drainage system properly maintained?		\checkmark		
3.08	S6.9	Are construction works carefully programmed to minimize soil excavation works				
		during rainy seasons?		V		-
3.09	S6.9	Are exposed soil surface protected by paving as soon as possible to reduce the				
		potential of soil erosion?		V		
3.10	S6.9	Are temporary access roads protected by crushed gravel?				
3.11	S6.9	Are exposed slope surface properly protected?		V		<i>u</i>
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?		V		
3.13	\$6.9	Are open stockpiles of construction materials on site covered by tarpaulin or similar				
		fabric during construction?		V	Ш	
3.14	S6.9	Is runoff from wheel-washing facilities avoided?		\checkmark		
3.15	S6.9	Is oil leakage or spillage prevented?		\checkmark		Vernineur (1)
3.16	S6.9	Are there any measures to prevent the release of oil and grease into the storm				Varie tray
		drainage system?		V		Varip 11-0-7
3.17	S6.9	Are the oil interceptors/ grease traps properly maintained?	\checkmark			
3.18	S6.9	Are debris and rubbish generated on site collected, handled and disposed of properly				in helicito
		to avoid them entering the streams?		\checkmark		pennialiris
3.19	S6.9	Are all fuel tanks and storage areas provided with locks and be sited on sealed areas, within bunds of capacity equal to 110% of the storage capacity of the largest tank?				
3 20	S6.9	Are tanks, containers, storage area bunded and the locations locked as far as possible				
	50.9	from the sensitive watercourse and stormwater drains?		\checkmark		-
3.21	S6.9	Are sufficient chemical toilets provided on site to handle sewage from construction				
		work force?		V		
3.22	S6.9	Are sewage disposal and toilet maintenance of the portable chemical toilets provided				
		by the licensed contractors?		V		
3.23	S6.9	Is concrete washing water properly collected and treated prior to discharge?	\checkmark			
3.24	S6.9	Is suitable type of silt curtains deployed during dredging to reduce the elevation of				
		suspended solids to nearby sensitive receivers?				
3.25	\$6.9	Is closed grab dredger used to reduce the potential leakage of sediments?				

16/03



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
3.26	S6.9	Is closed grab dredger of 3 to 6 m ³ used for dredging at seawater intake?				
3.27	\$6.9	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 3 m^3 closed grab, 10-11 grab per hour for 6 m^3 closed grab?				
3.28	\$6.9	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?				n e
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	\$6.9	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?	\checkmark			
3.32	S6.9	Are barges filled to a level which ensures that material does not spill over during transport to the disposal site and that adequate freeboard is maintained to ensure that the decks are not washed by wave action?	Ţ,			
3.33	S6.9	Are excess materials cleaned from decks and exposed fittings before the vessel is moved from the dredging area after dredging?				
3.34	S6.9	Are the contractor(s) confirmed that the works cause no visible foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the dredging site?	\checkmark			
3.35	S6.9	When the dredged material has been unloaded at the disposal areas, is any material accumulated on the deck or other exposed parts of the vessel removed and placed in the hold or a hopper?	$\square \checkmark$			
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?	\checkmark			
3.37	\$6.9	Is the contractor shall regularly inspect the silt curtains and check that they are moored and marked to avoid danger to marine traffic? Is regular inspection on the integrity of the silt curtain carried out by the contractor and any damage to the silt 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	\$6.9	Is any soil waste disposed overboard?				



Item	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?				
				V		-
4.02	S8.5	Is a recording system implemented to record the amount of wastes generated, recycled and				
		disposed of?		\checkmark		F
4.03	S8.5	IS the Contractor registered as a chemical waste producer?				-
	-			V		-
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	\$8.5	Is chemical waste reused and recycled on site as far as practicable?		-		
			V			
4.07	\$8.5	Are all containers for chemical waste properly labelled?				
	50.5	and an containers for chemical waste property labelled?				
4.08	585	Is chemical wate stars a gree wood calaby for stars of shemical works and would				
4.00	50.5	Is chemical waste storage area used solely for storage of chemical waste and properly labelled?				*
100	00.5			-		
4.09	58.5	Are incompatible chemical wastes stored in different areas?				
			V			
4.10	S8.5	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?				
		8		V	1	
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,		V		
		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?		V		
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?				Veminder M
						Verman 07
4.15	S8.5	Are appropriate measures adopted to minimize windblown litter and dust during				
		transportation of waste?		V		
4.16	S8.5	Are individual collectors for aluminum cans, plastic bottles and packaging material and				16 ¹
_	П	office paper provided to encourage waste segregation?		X		
4.17	S8.5	Are C&D wastes sorted on site?				
	2			V		
4.18	S8.5	Are C&D waste disposed of properly?				
				V		
4.19	S8.5	Are unused C&D materials or chemicals recycled or reused to reduce the quantity of	Ń			
		waste?	Í			
4.20	S8.5	Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?				
		4 · · · · · · · · · · · · · · · · · · ·		\checkmark		12box



Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
	1					3
4.21	S8.5	Are the construction materials stored properly to minimize the potential for damage or				
		contamination?		V		
4.22	S8.5	Is a dumping license obtained to deliver public fill to public filling areas?				
		I G MANNEL		\checkmark	7	
	-			2		
5.00		Landscape and Visual				
5.01	S11.10	Are Is site hoarding provided?				
	& 11.11		V			
5.02	S11.10 &	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?				
	11.11			1		
5.03	S11.10 &	Is construction light oriented away from the sensitive receivers?				
	11.11		1			
5.04	S11.10	Is grass hydroseeding provided to slopes as soon as the completion of works?				
	& 11.11			V		
5.05		Are damages to trees outside site boundary due construction works avoided?		/		
5.05	11.11 a	Are damages to trees outside she boundary due construction works avoided?		V		ponvinder-15)
						101111111
5.06		Is excavation works carried out manually instead of machinery operation within 2.5m				
		vicinity of any preserved trees?				
5.07	S11.10 &	Are the retained and transplanted tree(s) properly protected and in good conditions?				
	11.11				<u></u>	
5.08	S11.10 &	Are surgery works carried out for damaged trees?				
	11.11		V			
6.00		Ecology				
6.01	S9.7	Is site runoff properly treated to prevent any silly runoff?				
				V		
6.02	S9 7	Are silt trap installed and well-maintained?				
0.02	57.7	no sit tup instance and wor-maintainee.			с. 1911 г.	
6.03	00.7					
0.03	S9.7	Are stockpiles properly covered to avoid generating silty runoff?				Compation
						00. 1.000
6.04	S9.7	Are construction works restricted to works area which are clearly defined?				
				V		
6.05		For slope mitigation works within the Clear Water Bay Country Park, are tree felling and				
		damages to trees, the exact locations of the flexible barrier foundation plates, soil nails and		V		<u></u>
		rock dowels adjusted during detailed design, and a setback distance from existing trees is				
1		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?	V			
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 mininmum 1.5 m in a radius away from these				
		individuals?				
6.08	S9.7	At the detailed design stage prior to the commencement of the slope mitigation works, is				
		vegetation survey carried out at the slope mitigation areas within the Clear Water Bay		\checkmark		



Item	EIA ref.		NI/A	Vee	N.	
No.			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				15
		affected by the construction works?	-			
6.09	\$9.7	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?				
6.10	507	Is a specification for fencing and demarcating individuals of Marsdenai lachnostoma (or	,			
0.10	39.1	other flora species of conservation interest, if found) adjacent to the proposed alignment of				
		the flexible barriers prepared to protect the species?				
6.11	50.7		,			
0.11	59.7	Is any induction training provided to all site personnel in order to brief them on this flora of	1			
		conservation interest including the locations and their importance?				
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?				-
6.13	S9.7	Are fences erected along the boundary of the works area before the commencement of		\square		
		works to prevent vehicle movements and encroachment of personnel onto adjacent areas?		1		
6.14	S9.7	Is regular check of the work site boundaries performed to ensure that they are not breached				a la tratta
		and that damage does not occur to surrounding areas?		\checkmark		remmali (5)
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?		$\checkmark$		
6.16	50.7	-				
0.10	39.7	Are temporarily affected areas reinstated, particularly the habitats of plantation and				
		shrubland-grassland immediately after completion of construction works, through on-site tree/shrub planting?				
6.15	50.7					
0.15	59.7	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				
7.00		slope mitigation works? Landfill Gas Hazard				
	612.7		<u> </u>			
7.01	S12.7	Are the safety procedures implemented to minimise the risks of fires and explosions,	$\checkmark$			
		asphyxiation of works and toxicity effects during all works?	1			
7.02	S12.7	Are the gas detection equipment and precautions being used during trenching and	,			4
		excavation as well as creation of confined spaces?	$\Box$			
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	\$12.7		1 - 2.5		-	
7.04	512.7	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?	LV_			
						м И



### 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.						
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?	$\Box$			-
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?	$\Box$			
7.10	\$12.7	Are the below ground services entries being sealed to prevent gas entry? Are the grilled metal covers being used for below grade cable trenches?	V			
7.11	S12.7	Is each manhole or utility pit monitored with two measurements (at mid-depth and base) for minimum of 10 minutes? Is the steady reading and peak reading recorded at each manhole or utility pit?				
7.12	S12.7	Are the warning signs of the hazards of landfill gas and its possible presence on site posted in prominent places?				
8.00		Overall		)		
8.01		Is the EM&A properly implemented in general?		$\checkmark$		



### Acuity Sustainability Consulting Limited

Unit C, 11/F., Ford Glory Plaza, No. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon T: 2333-6823 | F: 2333-1316 | E: genera@acuityhk.com | www.acuityhk.com

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

Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: Observation (S) no major observations were reported today Remindercs, Cy The contractor was reminded to place all chemicals in the dumical drip tray and clean the drift trang regularity at worker hereing area Househeeping was reminded at nonlier netting area. (3) Consideration should be taken for the mater draining pathway. during (a) miny seasons. Chevery) ig Dury meterical shall be property correct to prevent dust emission. Llcv (32) (5) The contractor was renainded to pay greated attention to not placing Constantion materials near the swort and contarty parts area. (Cremeral) Signatures: EΤ Contractor's Supervising Officer's IEC's WSD's Representative Representative Representative Representative Representative NM (Name: charlene) (Name: ittay (Name: Qaz (Name: Long ) (Name: MMA-San ) Low Kwan 16 Mar 2021



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

WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspection Date: 23			Inspected by:	ET: Chr Contractor:	Avlene LOLI	SO: KON	mond kolc ws	sd: <b>N/A</b>
Inspection Time:	30-17-00							
Weather			1					
Condition	Sunny	Fine	Overcast	Drizzle	Rain	Storm	Hazy	
Temperature	<b>20</b> C		Humidity	High	Moderate	Low		
Wind	Calm	Light	Breeze	Strong	-			

Item	EIA ref.		N/A	Yes	No	Photo/Remarks
No.						
0.00		General				
0.01		Is the current Environmental Permit displayed conspicuously at all vehicle site				
		entrances/exits for public's information at any time?				
0.02		Is ET Leader's log-book kept readily available for inspections?				
1.00		Construction Dust				
	S4.8.1			<b></b> /		V corening,
1.01	5	Are dusty materials, such as excavated materials, building debris and construction materials, and exposed earth surface properly covered to prevent dust emission?				nater spranging 1
1.02	S4.8.1					compartion 0
1.02	54.8.1	Are screenings, enclosures, water spraying or vacuum cleaning devices provided to		-		water symping
		dusty construction works for dust suppression?				And aline of
1.03	S4.8.1	Are fumes or smoke emitting plants or construction activities shielded by a screen?				No fume/smolle
						emitting plant/
				L		Donstruction, aurinitier
1.04	S4.8.1	Are wheel-washing facilities with high-pressure water jets provided at all site exits?			<b></b>	observed.
				V		
1.05	S4.8.1	Is wheel-washing provided to all vehicles leaving the site?				
1.00	04.01			V		
1.06	S4.8.1	Are road section near the site exit free from dusty material?				2
1.07	S4.8.1	Are all main haul roads inside the site paved or sprayed with water to minimize dust		- P		
1.07	54.0.1	emission during vehicle movement?		./		raved-fsmaned.
1.08	S4.8.1	-				70.000
1.00	54.0.1	Are water spraying provided immediately prior to any loading or transfer of dusty materials?		. /		
1.09	S4.8.1					
1.05	54.0.1	Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site?				
1 10	S4.8.1	-				
1.10		Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of				
1 1 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				11
1 1 0	04.0.1	on site?				
1.12	S4.8.1	Does the operation of plants on site free form dark smoke emission?				NRMM Faber
						K INKININ (Upol



Item	EIA ref.		N/A	Yes	Ne	Disco
No.			IN/A	res	No	Photo/Remarks
1.13	S4.8.1	Are vehicles travelling at speed not exceeding 15km/hr within the site?		V		
	S4.8.1	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides?				
	S4.8.1	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?				
1.16	S4.8.1	Are hoarding of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?		$\checkmark$		4
1.17	S4.8.1	Is open burning prohibited?				
2.00		Construction Noise (Airborne)				
2.01	\$5.7	Are quiet plants adopted on site?				1 noise lulert
2.02	S5.7	Are the PMEs operating on site well-maintained to minimize the generation of excessive niose?		1		V mainlenance REDVA tramlar
2.03	S5.7	Are plants throttled down or turned off when not in use?				inspection
2.04	<b>S</b> 5.7	Are the plants known to emit noise strongly in one direction oriented to face away from NSRs?				2 no marby NSK.
2.05	S5.7	Are moveable barriers provided to screen NSRs from plant or noisy operations?				2
2.06	<b>\$</b> 5. <b>7</b>	Are silencers, mufflers and enclosures provided to plants?				
2.07	<b>S</b> 5. <b>7</b>	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?				
2.08	<b>S</b> 5.7	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	\$5.7	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?				
2.11	<b>S</b> 5. <b>7</b>	Are valid noise emission label(s) affixed to all air compressors operating on site?	V			
2.12	S5.7	Are all construction noise permit(s) applied for percussive piling work?				
2.13	\$5.7	Are construction noise permit(s) applied for general construction works during restricted hours?				
2.14	<b>S</b> 5.7	Are valid construction noise permit(s) displayed at all vehicular exits?				
3.00		Water Quality	L			
		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	\$6.9	Is wastewater discharge from site properly treated prior to discharge?				



#### 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. 3.04	S6.9	Are perimeter channels provided to intercept storm runoff from outside the site?				
0.01	50.7			V	8°	
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?			استا	
3.06	S6.9	Is surface runoff diverted to sedimentation facilities?				
3.07	S6.9	Is the drainage system properly maintained?				
3.08	S6.9	Are construction works carefully programmed to minimize soil excavation works				
		during rainy seasons?		$\square$		
3.09	S6.9	Are exposed soil surface protected by paving as soon as possible to reduce the		7		
		potential of soil erosion?				
3.10	S6.9	Are temporary access roads protected by crushed gravel?		$\checkmark$		
3.11	S6.9	Are exposed slope surface properly protected?				ß
				V		
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?		V		
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?				
3.15	S6.9	Is oil leakage or spillage prevented?				I drivtian,
3.16	S6.9	Are there any measures to prevent the release of oil and grease into the storm				venineler (1)
		drainage system?		V		remineber (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				11. 12 la 12 a
		to avoid them entering the streams?				remindercy
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?		1		
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?				
3.21	S6.9	Are sufficient chemical toilets provided on site to handle sewage from construction		1		
		work force?		v		
3.22	S6.9	Are sewage disposal and toilet maintenance of the portable chemical toilets provided				
		by the licensed contractors?		V		
3.23	S6.9	Is concrete washing water properly collected and treated prior to discharge?				
3.24	S6.9	Is suitable type of silt curtains deployed during dredging to reduce the elevation of				
		suspended solids to nearby sensitive receivers?				
3.25	S6.9	Is closed grab dredger used to reduce the potential leakage of sediments?				

233

Page 3 of 9



#### 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
3.26	<b>S</b> 6.9	Is closed grab dredger of 3 to 6 m ³ used for dredging at seawater intake?				
3.27	\$6.9	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	\$6.9	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	\$6.9	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	\$6.9	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?	$\checkmark$			
3.33	S6.9	Are excess materials cleaned from decks and exposed fittings before the vessel is moved from the dredging area after dredging?				
3.34	\$6.9	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	\$6.9	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	\$6.9	Is the contractor shall regularly inspect the silt curtains and check that they are moored and marked to avoid danger to marine traffic? Is regular inspection on the integrity of the silt curtain carried out by the contractor and any damage to the silt 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	\$6.9	Is any discharge of sewage/grey wastewater? Is wastewater from potentially contaminated area on working vessels should be minimized and collected?				
3.41	\$6.9	Is any soil waste disposed overboard?				

23/3

Page 4 of 9



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#### 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
4.00		Waste Management				
	S8.5	Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills?				
4.02	88.5	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?		<b>j</b>		
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?	$\checkmark$			
4.06	S8.5	Is chemical waste reused and recycled on site as far as practicable?	$\checkmark$			
4.07	S8.5	Are all containers for chemical waste properly labelled?		Ń		
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?				
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?		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?		Ń		
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 wastes sorted on site?				
4.18	S8.5	Are C&D waste disposed of properly?		Ń		
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?		$\checkmark$		

23/3

Page **5** of **9** 



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

r.,	EIA ref.		21/4	X.	NT	
Item	ETA IEI.		N/A	Yes	No	Photo/Remarks
No.						
4.21	S8.5	Are the construction materials stored properly to minimize the potential for damage or		$\square$		$0 \rightarrow 1 (0)$
		contamination?		V		(aminular (1)
4.22	S8.5	Is a dumping license obtained to deliver public fill to public filling areas?				
				V		
			1			
5.00	5	Landscape and Visual				
5.01	S11.10	Are Is site hoarding provided?				
	& 11.11		V			
5.02	S11.10 &	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?				
	11.11			V		
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					reprinder (3)
5.06		Is excavation works carried out manually instead of machinery operation within 2.5m				
5.06						
	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		· ·			
5.08	S11.10 &	Are surgery works carried out for damaged trees?				
	11.11		V			
6.00		Ecology				
	\$9.7	Is site runoff properly treated to prevent any silly runoff?		,		
0.01	09.1	is she runor property reaced to provent any sing runor.				
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?				
				V		
6.04	\$9.7	Are construction works restricted to works area which are clearly defined?		-		
		,		V		
6.05	80.7	Fac along mitigation marks mithin the Clean Weter Day Country Dayle and two C.		1		
6.05	S9.7	For slope mitigation works within the Clear Water Bay Country Park, are tree felling and				
		damages to trees, the exact locations of the flexible barrier foundation plates, soil nails and				
		rock dowels adjusted during detailed design, and a setback distance from existing 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				
1		minimum?	Ľ			
6.07	<b>S</b> 9.7	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				-
1		alignment of flexible barriers positioned at minimum 1.5 m in a radius away from these				
1		individuals?				
6.08	S9.7	At the detailed design stage prior to the commencement of the slope mitigation works, is		-		
0.00	37.7			V		
1		vegetation survey carried out at the slope mitigation areas within the Clear Water Bay				

23/3

Page 6 of 9



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

-	ETAC	act no. 15/1150/17 Design) Bana and Operate First stage of h	NI/A	Vee	Ma	Dhata/Damarka
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?				
0.00	<u> </u>	-				
6.09	\$9.7	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?				
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	$\checkmark$			
		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	50.7	Is the resident site supervisory staff closely monitor the conditions of concerned				
0.12	39.1					
		individuals during construction of flexible barriers in the close proximity?				
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?		Y		
6.14	S9.7	Is regular check of the work site boundaries performed to ensure that they are not breached				A. S. H. (D)
		and that damage does not occur to surrounding areas?		V		Sominder (3)
6.15	\$9.7	Is any damage and disturbance avoided, particularly those caused by filling and illegal				
0.10	57.7	dumping, to the surrounding habitats through proper management of waste disposal?		V		
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	V			
		tree/shrub planting?	,	1011 . California		
6.15	S9.7	Are affected habitats within the Clear Water Bay Country Bay reinstated by hydro-seeding				
1		and planting of climbers and native shrub seedlings where practical upon completion of the	V			
		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,				
1.01	5.2.1	asphyxiation of works and toxicity effects during all works?	V			
		1,9 , 9				
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	,			
14 CARPORTON		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				5
		and presented on the site throughout the works undertaken below grade?				
7.05	S12.7	Are the all personnel working on site and all visitor made aware of the possibility of	1			
		ignition of gas, the possible presence of contaminated water and the need to avoid				
		physical contact?				
		physical contact:				



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### 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	S12.7	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	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?				
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?				
	S12.7	Are the warning signs of the hazards of landfill gas and its possible presence on site posted in prominent places?	$\checkmark$			-
<b>8.00</b> 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 (S) No major observations were reported on the respective day. Kommenenciss Reprinted to Reprint Mar reminded to Reprint Chemical waste Storage inside the construction site (General) is Housekeeping was reminded at R.O area. and draining channel near (3) The Main Controctor Was reminded to not place consumption materials man the boundary of the country Park. Signatures: ET Contractor/s Supervising Officer's IEC's WSD's Representative Representative Representative Representative Representative MA (Name: Charlene Lai (Name: (Name: (Name: Locy 5 ) (Name: MA ) man Kulan 23/31202



		WEEKLY	ENVIRON	IENTAL IN	SPECTION C	CHECKLIST	
	30/03/2021		Inspected by:		narlene lest	so: <u>kan</u> iec: hav	munel kolk. wsp: w.k. 1m. is Kwan
Weather	1						
Condition	Sunny	Fine	Overcast	Drizzle	Rain	Storm	Hazy
Temperature	27 C		Humidity	High	Moderate	Low	
Wind	Calm	Light	Breeze	Strong			

Item No.	EIA ref.		N/A	Yes	No	Photo/Remarks
<b>0.00</b> 0.01		General Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time?		$\checkmark$		
0.02		Is ET Leader's log-book kept readily available for inspections?		$\square$		
<b>1.00</b> 1.01	S4.8.1	<b>Construction Dust</b> Are dusty materials, such as excavated materials, building debris and construction materials, and exposed earth surface properly covered to prevent dust emission?	$\checkmark$			Vampautian.
1.02	S4.8.1	Are screenings, enclosures, water spraying or vacuum cleaning devices provided to dusty construction works for dust suppression?				no observation Nortes observed on reporting deg
1.03	S4.8.1	Are fumes or smoke emitting plants or construction activities shielded by a screen?				No Rume smole emliting plant (construction
1.04	S4.8.1	Are wheel-washing facilities with high-pressure water jets provided at all site exits?		$\square$		auting of sever
1.05	S4.8.1	Is wheel-washing provided to all vehicles leaving the site?				
1.06	S4.8.1	Are road section near the site exit free from dusty material?				
1.07	S4.8.1	Are all main haul roads inside the site paved or sprayed with water to minimize dust emission during vehicle movement?		V		raved.
1.08	S4.8.1	Are water spraying provided immediately prior to any loading or transfer of dusty materials?	V			no absorbion of continuition works
1.09	S4.8.1	Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site?		$\checkmark$		
1.10	S4.8.1	Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of boulders, poles, pillars sprayed with water to maintain the entire surface wet?				
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?				INRMM Laber



Itom	EIA ref.					Discontinu
Item No.	EIA IEI.		N/A	Yes	No	Photo/Remarks
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?	$\checkmark$			
	S4.8.1	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?	$\checkmark$			
1.16	S4.8.1	Are hoarding of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?		1		
1.17	S4.8.1	Is open burning prohibited?				
2.00		Construction Noise (Airborne)				
2.01	<b>S</b> 5.7	Are quiet plants adopted on site?				V nuise laber
2.02	S5.7	Are the PMEs operating on site well-maintained to minimize the generation of excessive niose?		$\checkmark$		Vienlew
2.03	S5.7	Are plants throttled down or turned off when not in use?		V		
2.04	S5.7	Are the plants known to emit noise strongly in one direction oriented to face away from NSRs?				4 NO Menty
2.05	<b>S</b> 5. <b>7</b>	Are moveable barriers provided to screen NSRs from plant or noisy operations?	0			)
2.06	<b>S</b> 5.7	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?	$\checkmark$			No continuent.
2.08	\$5.7	Are purposely-built site hoarding construction with appropriate materials provided along the site boundary?				
2.09		Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers?				
2.10	\$5.7	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?				
2.11	S5.7	Are valid noise emission label(s) affixed to all air compressors operating on site?				
2.12	\$5.7	Are all construction noise permit(s) applied for percussive piling work?				
2.13		Are construction noise permit(s) applied for general construction works during restricted hours?		J		
2.14	<b>\$</b> 5. <b>7</b>	Are valid construction noise permit(s) displayed at all vehicular exits?				
3.00		Water Quality				
3.01		Is effluent discharge license obtained for wastewater discharge from site?		$\checkmark$		
3.02	\$6.9	Is effluent discharged according to the effluent discharge license?		$\checkmark$		
3.03	\$6.9	Is wastewater discharge from site properly treated prior to discharge?		$\checkmark$		



#### 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
3.04	\$6.9	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?		Í		
3.06	S6.9	Is surface runoff diverted to sedimentation facilities?				
3.07	S6.9	Is the drainage system properly maintained?				
3.08	S6.9	Are construction works carefully programmed to minimize soil excavation works during rainy seasons?				
3.09	\$6.9	Are exposed soil surface protected by paving as soon as possible to reduce the potential of soil erosion?				
3.10	S6.9	Are temporary access roads protected by crushed gravel?		$\checkmark$		
3.11	S6.9	Are exposed slope surface properly protected?		1		
3.12	S6.9	Is trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation?		$\checkmark$		
3.13	S6.9	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction?				
3.14	S6.9	Is runoff from wheel-washing facilities avoided?		$\checkmark$		
3.15	S6.9	Is oil leakage or spillage prevented?		1		V drip tray
3.16	S6.9	Are there any measures to prevent the release of oil and grease into the storm drainage system?				y s // o 110 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
3.17	S6.9	Are the oil interceptors/ grease traps properly maintained?	V			
3.18	S6.9	Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams?				
3.19	S6.9	Are all fuel tanks and storage areas provided with locks and be sited on sealed areas, within bunds of capacity equal to 110% of the storage capacity of the largest tank?				
3.20	S6.9	Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains?		$\checkmark$		
3.21	S6.9	Are sufficient chemical toilets provided on site to handle sewage from construction work force?		$\checkmark$		
3.22	S6.9	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors?		~		
3.23	S6.9	Is concrete washing water properly collected and treated prior to discharge?				
3.24	S6.9	Is suitable type of silt curtains deployed during dredging to reduce the elevation of suspended solids to nearby sensitive receivers?				
3.25	S6.9	Is closed grab dredger used to reduce the potential leakage of sediments?				

3013

Page 3 of 9



#### 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
3.26	\$6.9	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?	$\checkmark$			
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	\$6.9	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)?	$\checkmark$			
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	<b>S</b> 6.9	Are excess materials cleaned from decks and exposed fittings before the vessel is moved from the dredging area after dredging?	$\checkmark$			
3.34	\$6.9	Are the contractor(s) confirmed that the works cause no visible foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the dredging site?				
3.35	\$6.9	When the dredged material has been unloaded at the disposal areas, is any material accumulated on the deck or other exposed parts of the vessel removed and placed in the hold or a hopper?				
3.36	\$6.9	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	\$6.9	Are all vessels have a clean ballast system?				
3.39	\$6.9	Are all vessels well maintained and inspected before use to limit any potential discharges to the marine environment?				
3.40	\$6.9	Is any discharge of sewage/grey wastewater? Is wastewater from potentially contaminated area on working vessels should be minimized and collected?				
3.41	\$6.9	Is any soil waste disposed overboard?				
				_		



#### 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
4.00	S8.5	Waste Management Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at				
4.02	58.5	public filling facilities and landfills? 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?	Joi			
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?				
4.07	S8.5	Are all containers for chemical waste properly labelled?		1		
4.08	S8.5	Is chemical waste storage area used solely for storage of chemical waste and properly labelled?				
4.09	S8.5	Are incompatible chemical wastes stored in different areas?	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?		V		
4.17	S8.5	Are C&D wastes sorted on site?				
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?	I.			
4.20	S8.5	Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?				



#### 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.						
	2					
4.21	S8.5	Are the construction materials stored properly to minimize the potential for damage or				
		contamination?		$\checkmark$		
4.22	S8.5	Is a dumping license obtained to deliver public fill to public filling areas?				
				V		
5.00		Landscape and Visual				
	S11.10	Are Is site hoarding provided?				
0.01	& 11.11	i to is site noticung provided:				
5.02		Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?				
5.02	11.11 a	Are vegetation disturbance minimized of son protected to reduce potential son erosion?				
5.02		To construction light constraints a survey for a discount of a survey of a				
5.05	11.11 a	Is construction light oriented away from the sensitive receivers?				
5.04				<u> </u>		
5.04	S11.10 & 11.11	Is grass hydroseeding provided to slopes as soon as the completion of works?				
-						
5.05		Are damages to trees outside site boundary due construction works avoided?				
-	11.11					
5.06		Is excavation works carried out manually instead of machinery operation within 2.5m				
		vicinity of any preserved trees?				
5.07		Are the retained and transplanted tree(s) properly protected and in good conditions?				
	11.11					
5.08		Are surgery works carried out for damaged trees?				
-	11.11		V			
6.00		Ecology				
6.01	<b>S</b> 9.7	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?				
				V		
6.04	S9.7	Are construction works restricted to works area which are clearly defined?				
				V		
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		V		
		rock dowels adjusted during detailed design, and a setback distance from existing trees is				
		recommended to be maintained as far as practical?				
6.06	<b>S</b> 9.7	Are pruning of tree canopies along the alignment of the flexible barriers limited to a				
		minimum?	V			
6.07	<b>S</b> 9. <b>7</b>	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	V			
		alignment of flexible barriers positioned at mininmum 1.5 m in a radius away from these				
		individuals?		,		
6.08	\$9.7	At the detailed design stage prior to the commencement of the slope mitigation works, is				
		vegetation survey carried out at the slope mitigation areas within the Clear Water Bay				



### 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
	×	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?				
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?				_
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?	V			
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?		V		
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?				
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?		$\checkmark$		
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?	1			
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?	V			
<b>7.00</b> 7.01	S12.7	Landfill Gas Hazard Are the safety procedures implemented to minimise the risks of fires and explosions, asphyxiation of works and toxicity effects during all works?				
7.02	S12.7	Are the gas detection equipment and precautions being used during trenching and excavation as well as creation of confined spaces?	V			
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?	1			
7.05	S12.7	Are the all personnel working on site and all visitor made aware of the possibility of ignition of gas, the possible presence of contaminated water and the need to avoid physical contact?	ĩ			

303



#### 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.						
7.06	S12.7	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?	V			
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?				
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?	1			
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		Overall		1	0.22.0-0	
8.01		Is the EM&A properly implemented in general?				

3013



#### Acuity Sustainability Consulting Limited

Unit C, 11/F., Ford Glory Plaza, No. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon T: 2333-6823 | F: 2333-1316 | E: genera@acuityhk.com | www.acuityhk.com

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

Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: Bange. observation (1) No major observations were reported on the respective day. comple shelf (1) The Contractor was perminded to store on sile mechinery storage to prevent accollected safety & environmental concerns. at combine shelt, (eg. digg ~) such as land contamination. consider a Reminder(1) Signatures: ET Contractor's Supervising Officer's IEC's WSD's Representative Representative Representative Representative Representati La mond (Name: Louis (Name: Bray Kau (Name: Martene lai" (Name: ) (Name: Un) 20 mbr 202



# Appendix J

## **Complaint Log**



### **Statistical Summary of Environmental Complaints**

Reporting Period	d Environmental Complaint Statistics							
	Frequency	Cumulative	Complaint Nature					
01 Mar 2021 -								
31 Mar 2021	0	0	N/A					

### **Statistical Summary of Environmental Summons**

Reporting Period	Environmenta	Summons Statistics	
	Frequency	Cumulative	Details
01 Mar 2021 -			
31 Mar 2021	0	0	N/A

#### **Statistical Summary of Environmental Prosecution**

Reporting Period	Environmenta	Environmental Prosecution Statistics										
	Frequency	Cumulative	Details									
01 Mar 2021 -												
31 Mar 2021	0	0	N/A									



## Appendix K

# Impact Monitoring Schedule of Next Reporting Month

		Contract I	EM&A Water Quality Mo	-	
			Apr-21		
Sun	Mon	Tue	Wed	Thu	Fri
				1	2
				Impact Water Quality monitoring for CE, CF, WSR4, WSR16, WSR33, WSR <u>Tidal Period:</u> Ebb Tide: 12:00-17. Flood Tide: 05:05-17. <u>Monitoring Time</u> Mid-ebb: 13:11-16. Mid-flood: 08:00-11.	R36, WSR37 252 2:00 2 41
4	5	6	7	8	9
		Impact Water Quality monitoring for CE, CF, WSR3, WSR4, WSR16, WSR33, WS <u>Tidal Period:</u> Ebb Tide: 16:00-23:59 Flood Tide: 00:00-16:00 <u>Monitoring Time:</u> Mid-ebb:15:30-19:00 Mid-flood:08:00-11:30	R36, WSR37	Impact Water Quality monitoring for CE, CF, WSR4, WSR16, WSR33, WSR <u>Tidal Period:</u> Ebb Tide: 09:00-12 Flood Tide: 12:00-19 <u>Monitoring Time</u> Mid-ebb: 08:45-12 Mid-flood:13:45-17	R36, WSR37 :00 9:00 <u>:</u> :15
11	12	13	14	15	16
		Impact Water Quality monitoring for CE, CF, WSR3, WSR4, WSR16, WSR33, WS <u>Tidal Period:</u> Ebb Tide: 10:23-16:08 Flood Tide: 16:08-23:0: <u>Monitoring Time:</u> Mid-ebb:11:30-15:00 Mid-flood:16:00-19:30	R36, WSR37	Impact Water Quality monitoring for CE, CF, WSR4, WSR16, WSR33, WSF <u>Tidal Period:</u> Ebb Tide: 10:31-17: Flood Tide: 05:00-1( <u>Monitoring Time</u> Mid-ebb:12:15-15: Mid-flood:08:00-11:	R36, WSR37 :30 0:31 <u>:</u> 45
18	19	20	21	22	23
		Impact Water Quality monitoring for CE, CF, WSR3, WSR4, WSR16, WSR33, WS <u>Tidal Period:</u> Ebb Tide: 14:00-22:58 Flood Tide: 00:00-14:00 <u>Monitoring Time:</u> Mid-ebb:15:30-19:00 Mid-flood:08:00-11:30	WSR1, WSR2, R36, WSR37	Impact Water Quality monitoring for CE, CF, WSR4, WSR16, WSR33, WSR <u>Tidal Period:</u> Ebb Tide: 16:00-23 Flood Tide: 00:00-10 <u>Monitoring Time</u> Mid-ebb:16:00-19: Mid-flood:09:00-12:	R36, WSR37 59 5:00 <u>1</u> 30
25	26	27	28	29	30
		Impact Water Quality monitoring for CE, CF, WSR3, WSR4, WSR16, WSR33, WS <u>Tidal Period:</u> Ebb Tide: 09:00-15:21 Flood Tide: 15:21-22:31 <u>Monitoring Time:</u> Mid-ebb:10:25-13:55 Mid-flood:15:30-19:00	WSR1, WSR2, R36, WSR37	Impact Water Quality monitoring for CE, CF, WSR4, WSR16, WSR33, WSR <u>Tidal Period:</u> Ebb Tide: 10:11-17 Flood Tide: 04:03-10 <u>Monitoring Time</u> Mid-ebb:11:51-15: Mid-flood:08:00-11:	WSR1, WSR2, WSR3, 836, WSR37 901 9:11 2: 21

Remarks: Monitoring Parameters: Dissolved oxygen, Temperature, pH, Turbidity, Salinity, Suspended Solids

Note: * - Due to safety concern of vessel transportation earlier than 0700, Water Quality Monitoring would start at 0800. \$ - Since predicted tide is shorter than 3.5 hours, method of 90% tidal period as monitoring time is adopted. & - Due to safety concern for sampling event in night-time, method of 90% tidal period as monitoring time is approached and end at 1900. # - Prioritized routing: Mid-Ebb: CE→WSR16→WSR37→WSR36→WSR33→Remaining stations and Mid-Flood: CF→WSR1→WSR2→WSR3→WSR4→Remaining stations

Sat
3
Impact
Water Quality monitoring for CE, CF, WSR1, WSR2,
WSR3, WSR4, WSR16, WSR33, WSR36, WSR37
Tidal Period:
Ebb Tide: 13:20-20:02
Flood Tide: 06:00-13:20
Monitoring Time:
Mid-ebb:14:56-18:26
Mid-flood: 08:00-11:30*
10
Impact
Water Quality monitoring for CE, CF, WSR1, WSR2,
WSR3, WSR4, WSR16, WSR33, WSR36, WSR37
Tidal Period:
Ebb Tide: 08:58-14:00
Flood Tide: 14:00-21:00
Monitoring Time:
Mid-ebb:09:44-13:14
Mid-flood:15:30-19:00
17
Inpact
Water Quality monitoring for CE, CF, WSR1, WSR2,
WSR3, WSR4, WSR16, WSR33, WSR36, WSR37
Tidal Period:
Ebb Tide: 10:00-19:00
Flood Tide: 04:00-10:00
Monitoring Time:
Mid-ebb:12:45-16:15
Mid-flood: 08:00-11:30*
Mid-flood: 08:00-11:30*
24
24 Impact
24 Impact Water Quality monitoring for CE, CF, WSR1, WSR2,
24 Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37
24 Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37 <u>Tidal Period:</u>
24 Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37 <u>Tidal Period:</u> Ebb Tide: 08:00-12:35
24 Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37 <u>Tidal Period:</u> Ebb Tide: 08:00-12:35 Flood Tide: 12:35-18:43
24 Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR37 <u>Tidal Period:</u> Ebb Tide: 08:00-12:35 Flood Tide: 12:35-18:43 <u>Monitoring Time:</u>
24 Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37 <u>Tidal Period:</u> Ebb Tide: 08:00-12:35 Flood Tide: 12:35-18:43 <u>Monitoring Time:</u> Mid-ebb:08:32-12:02
24 Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37 <u>Tidal Period:</u> Ebb Tide: 08:00-12:35 Flood Tide: 12:35-18:43 <u>Monitoring Time:</u> Mid-ebb:08:32-12:02
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24 Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37 <u>Tidal Period:</u> Ebb Tide: 08:00-12:35 Flood Tide: 12:35-18:43 <u>Monitoring Time:</u> Mid-ebb:08:32-12:02
24 Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37 <u>Tidal Period:</u> Ebb Tide: 08:00-12:35 Flood Tide: 12:35-18:43 <u>Monitoring Time:</u> Mid-ebb:08:32-12:02
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24 Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37 <u>Tidal Period:</u> Ebb Tide: 08:00-12:35 Flood Tide: 12:35-18:43 <u>Monitoring Time:</u> Mid-ebb:08:32-12:02
24 Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37 <u>Tidal Period:</u> Ebb Tide: 08:00-12:35 Flood Tide: 12:35-18:43 <u>Monitoring Time:</u> Mid-ebb:08:32-12:02



# Appendix L

# Water Quality Monitoring Data

## Contract No. 13/WSD/17

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
CE	20210301	Cloudy	Moderate	Mid-Flood	Middle	10.05	10:15	9.39	8.34	26.88	20.81	2.47	2.5
CE	20210301	Cloudy	Moderate	Mid-Flood	Middle	10.05	10:15	10.18	8.20	27.38	20.85	1.88	2.5
CE	20210301	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:16	10.74	8.36	27.00	20.55	2.45	2.5
CE	20210301	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:16	10.15	8.31	26.96	20.95	2.82	2.5
CE	20210301	Cloudy	Moderate	Mid-Flood	Bottom	19.10	10:14	9.41	8.41	27.35	20.93	1.99	2.5
CE	20210301	Cloudy	Moderate	Mid-Flood	Bottom	19.10	10:14	9.26	8.17	26.90	20.72	2.01	2.5
CE	20210303	Cloudy	Moderate	Mid-Flood	Middle	10.30	10:18	9.15	8.42	31.01	20.15	1.96	3.3
CE	20210303	Cloudy	Moderate	Mid-Flood	Middle	10.30	10:18	9.13	8.40	30.93	20.27	2.27	5.4
CE	20210303	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:19	9.78	8.47	31.49	20.22	2.65	4.3
CE	20210303	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:19	9.45	8.39	31.03	20.19	2.85	4.1
CE	20210303	Cloudy	Moderate	Mid-Flood	Bottom	19.60	10:17	9.95	8.21	31.45	20.00	1.96	3.1
CE	20210303	Cloudy	Moderate	Mid-Flood	Bottom	19.60	10:17	9.92	8.29	31.67	20.00	2.16	4.3
CE	20210305	Cloudy	Moderate	Mid-Flood	Middle	10.55	10:47	9.19	8.56	28.60	20.90	2.90	2.7
CE	20210305	Cloudy	Moderate	Mid-Flood	Middle	10.55	10:47	9.17	8.69	29.73	20.90	3.12	2.6
CE	20210305	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:48	9.64	8.37	28.69	20.83	2.95	3.0
CE	20210305	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:48	9.73	8.68	29.49	20.59	3.10	3.3
CE	20210305	Cloudy	Moderate	Mid-Flood	Bottom	20.10	10:46	9.90	8.58	28.83	20.65	2.84	3.1
CE	20210305	Cloudy	Moderate	Mid-Flood	Bottom	20.10	10:46	8.90	8.56	29.47	20.51	2.95	3.0
CE	20210308	Cloudy	Moderate	Mid-Flood	Middle	10.25	14:46	9.81	8.33	29.57	23.09	2.71	3.4
CE	20210308	Cloudy	Moderate	Mid-Flood	Middle	10.25	14:46	9.81	8.53	29.88	22.69	2.54	3.0
CE	20210308	Cloudy	Moderate	Mid-Flood	Surface	1.00	14:47	8.88	8.44	30.09	23.04	2.83	3.6
CE	20210308	Cloudy	Moderate	Mid-Flood	Surface	1.00	14:47	9.32	8.39	30.08	22.88	2.46	3.0
CE	20210308	Cloudy	Moderate	Mid-Flood	Bottom	19.50	14:45	8.51	8.29	29.70	23.01	2.43	2.5
CE	20210308	Cloudy	Moderate	Mid-Flood	Bottom	19.50	14:45	9.11	8.44	30.28	22.93	2.24	3.0
CE	20210310	Cloudy	Moderate	Mid-Flood	Middle	10.25	17:19	9.83	8.60	30.96	22.06	2.53	3.9
CE	20210310	Cloudy	Moderate	Mid-Flood	Middle	10.25	17:19	10.25	8.45	31.88	22.07	2.35	3.4
CE	20210310	Cloudy	Moderate	Mid-Flood	Surface	1.00	17:20	9.88	8.63	31.80	21.85	2.96	2.9

Contract No. 13/WSD/17

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
CE	20210310	Cloudy	Moderate	Mid-Flood	Surface	1.00	17:20	9.83	8.43	31.19	21.76	3.15	3.5
CE	20210310	Cloudy	Moderate	Mid-Flood	Bottom	19.50	17:18	10.57	8.51	31.17	21.80	2.19	3.0
CE	20210310	Cloudy	Moderate	Mid-Flood	Bottom	19.50	17:18	9.99	8.55	31.23	22.05	2.21	3.2
CE	20210312	Cloudy	Moderate	Mid-Flood	Middle	10.35	18:44	9.20	8.54	30.21	24.47	2.12	4.1
CE	20210312	Cloudy	Moderate	Mid-Flood	Middle	10.35	18:44	9.21	8.61	30.58	24.63	2.30	4.0
CE	20210312	Cloudy	Moderate	Mid-Flood	Surface	1.00	18:45	9.70	8.39	29.98	24.26	2.47	3.5
CE	20210312	Cloudy	Moderate	Mid-Flood	Surface	1.00	18:45	9.52	8.45	30.61	24.44	2.87	3.3
CE	20210312	Cloudy	Moderate	Mid-Flood	Bottom	19.70	18:43	8.96	8.61	30.61	24.58	2.35	3.6
CE	20210312	Cloudy	Moderate	Mid-Flood	Bottom	19.70	18:43	9.48	8.31	29.93	24.62	2.30	3.4
CE	20210315	Cloudy	Moderate	Mid-Flood	Middle	12.00	11:18	8.92	8.60	30.26	23.81	2.81	9.1
CE	20210315	Cloudy	Moderate	Mid-Flood	Middle	12.00	11:18	8.79	8.53	30.14	23.74	3.05	3.0
CE	20210315	Cloudy	Moderate	Mid-Flood	Surface	1.00	11:19	9.68	8.52	30.28	23.81	2.89	3.6
CE	20210315	Cloudy	Moderate	Mid-Flood	Surface	1.00	11:19	9.52	8.57	30.29	24.13	2.71	4.1
CE	20210315	Cloudy	Moderate	Mid-Flood	Bottom	23.00	11:17	9.06	8.41	30.71	23.92	3.03	3.2
CE	20210315	Cloudy	Moderate	Mid-Flood	Bottom	23.00	11:17	8.83	8.57	30.59	24.16	3.16	3.8
CE	20210317	Cloudy	Moderate	Mid-Flood	Middle	11.95	11:12	9.20	8.40	31.70	24.17	2.45	2.6
CE	20210317	Cloudy	Moderate	Mid-Flood	Middle	11.95	11:12	9.97	8.29	30.79	24.19	2.35	2.6
CE	20210317	Cloudy	Moderate	Mid-Flood	Surface	1.00	11:13	9.59	8.22	31.22	24.05	2.40	2.5
CE	20210317	Cloudy	Moderate	Mid-Flood	Surface	1.00	11:13	8.94	8.27	30.57	24.38	2.82	3.8
CE	20210317	Cloudy	Moderate	Mid-Flood	Bottom	22.90	11:11	8.47	8.23	30.48	24.05	2.12	2.7
CE	20210317	Cloudy	Moderate	Mid-Flood	Bottom	22.90	11:11	9.60	8.36	31.55	24.42	2.35	3.4
CE	20210319	Cloudy	Moderate	Mid-Flood	Middle	10.70	11:20	9.13	8.18	30.82	23.98	1.80	2.7
CE	20210319	Cloudy	Moderate	Mid-Flood	Middle	10.70	11:20	9.13	8.25	31.74	23.96	1.56	2.7
CE	20210319	Cloudy	Moderate	Mid-Flood	Surface	1.00	11:21	9.95	8.22	30.52	24.05	2.31	3.5
CE	20210319	Cloudy	Moderate	Mid-Flood	Surface	1.00	11:21	8.64	8.43	31.70	24.06	2.52	2.8
CE	20210319	Cloudy	Moderate	Mid-Flood	Bottom	20.40	11:19	9.91	8.24	31.49	24.05	1.94	2.5
CE	20210319	Cloudy	Moderate	Mid-Flood	Bottom	20.40	11:19	8.96	8.2	30.98	23.91	2.16	2.5

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm	) DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
CE	20210323	Cloudy	Moderate	Mid-Flood	Middle	10.40	11:06	10.63	8.39	31.03	20.98	2.44	2.7
CE	20210323	Cloudy	Moderate	Mid-Flood	Middle	10.40	11:06	8.93	8.46	30.41	20.70	2.78	2.5
CE	20210323	Cloudy	Moderate	Mid-Flood	Surface	1.00	11:07	9.3	8.36	30.33	20.98	2.75	2.5
CE	20210323	Cloudy	Moderate	Mid-Flood	Surface	1.00	11:07	9.33	8.53	30.97	20.79	2.97	3.1
CE	20210323	Cloudy	Moderate	Mid-Flood	Bottom	19.80	11:05	9.48	8.35	31.24	20.83	2.31	2.6
CE	20210323	Cloudy	Moderate	Mid-Flood	Bottom	19.80	11:05	10.35	8.35	31.09	20.71	2.35	3.5
CE	20210325	Cloudy	Moderate	Mid-Flood	Middle	11.05	16:55	9.68	8.66	31.23	26.30	2.12	2.5
CE	20210325	Cloudy	Moderate	Mid-Flood	Middle	11.05	16:55	10.16	8.71	30.41	26.49	1.93	2.5
CE	20210325	Cloudy	Moderate	Mid-Flood	Surface	1.00	16:56	10.28	8.34	31.29	26.62	2.54	4.0
CE	20210325	Cloudy	Moderate	Mid-Flood	Surface	1.00	16:56	9.71	8.50	31.52	26.51	2.13	2.5
CE	20210325	Cloudy	Moderate	Mid-Flood	Bottom	21.10	16:54	9.30	8.71	31.49	26.54	1.78	2.6
CE	20210325	Cloudy	Moderate	Mid-Flood	Bottom	21.10	16:54	9.73	8.37	30.68	26.57	1.56	2.5
CE	20210327	Sunny	Moderate	Mid-Flood	Middle	10.30	18:32	8.61	8.45	29.79	24.55	2.52	2.7
CE	20210327	Sunny	Moderate	Mid-Flood	Middle	10.30	18:32	8.66	8.33	30.19	24.32	2.12	2.6
CE	20210327	Sunny	Moderate	Mid-Flood	Surface	1.00	18:33	8.55	8.28	29.87	24.40	2.45	2.5
CE	20210327	Sunny	Moderate	Mid-Flood	Surface	1.00	18:33	9.32	8.30	29.77	24.21	2.80	3.2
CE	20210327	Sunny	Moderate	Mid-Flood	Bottom	19.60	18:31	8.36	8.39	30.06	24.34	2.09	2.5
CF	20210327	Sunny	Moderate	Mid-Flood	Bottom	18.30	15:19	8.70	8.52	30.55	24.45	2.36	2.7
CE	20210330	Sunny	Moderate	Mid-Flood	Middle	10.40	10:44	8.89	8.29	30.96	27.01	2.47	2.5
CE	20210330	Sunny	Moderate	Mid-Flood	Middle	10.40	10:44	7.92	8.21	31.07	26.82	2.13	2.5
CE	20210330	Sunny	Moderate	Mid-Flood	Surface	1.00	10:45	9.04	8.46	31.04	27.05	2.55	3.4
CE	20210330	Sunny	Moderate	Mid-Flood	Surface	1.00	10:45	9.24	8.30	31.06	27.00	2.19	3.0
CE	20210330	Sunny	Moderate	Mid-Flood	Bottom	19.80	10:43	9.29	8.41	31.25	26.81	2.00	2.5
CE	20210330	Sunny	Moderate	Mid-Flood	Bottom	19.80	10:43	9.26	8.21	30.95	27.03	2.23	2.5
CF	20210301	Cloudy	Moderate	Mid-Flood	Middle	10.55	8:	01 10.68	8 8.4	6 27.37	20.37	2.2	9 2.5
CF	20210301	Cloudy	Moderate	Mid-Flood	Middle	10.55	8:	9.12	2 8.3	8 27.30	) 20.45	2.03	3 2.5
CF	20210301	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:	02 10.67	7 8.1	7 26.71	20.43	2.60	) 2.5

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
CF	20210301	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:02	10.33	8.33	27.08	20.44	2.72	2.5
CF	20210301	Cloudy	Moderate	Mid-Flood	Bottom	20.10	8:00	9.38	8.25	26.92	20.47	2.13	2.5
CF	20210301	Cloudy	Moderate	Mid-Flood	Bottom	20.10	8:00	10.38	8.22	27.41	20.44	1.77	2.5
CF	20210303	Cloudy	Moderate	Mid-Flood	Middle	10.55	8:04	8.60	8.29	31.07	19.65	2.11	3.8
CF	20210303	Cloudy	Moderate	Mid-Flood	Middle	10.55	8:04	9.30	8.20	31.01	19.59	2.40	3.7
CF	20210303	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:05	9.05	8.20	30.57	19.76	2.52	4.2
CF	20210303	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:05	9.63	8.20	31.06	19.87	2.37	3.0
CF	20210303	Cloudy	Moderate	Mid-Flood	Bottom	20.10	8:03	8.43	8.21	30.54	19.68	2.15	4.6
CF	20210303	Cloudy	Moderate	Mid-Flood	Bottom	20.10	8:03	9.17	8.26	31.38	19.73	1.86	4.1
CF	20210305	Cloudy	Moderate	Mid-Flood	Middle	10.25	8:33	8.37	8.69	28.53	20.31	3.27	3.3
CF	20210305	Cloudy	Moderate	Mid-Flood	Middle	10.25	8:33	9.67	8.54	29.13	20.49	2.99	3.7
CF	20210305	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:34	9.62	8.69	28.99	20.35	2.89	3.8
CF	20210305	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:34	8.47	8.48	29.23	20.21	2.82	3.5
CF	20210305	Cloudy	Moderate	Mid-Flood	Bottom	19.50	8:32	9.85	8.70	28.93	20.29	3.57	3.7
CF	20210305	Cloudy	Moderate	Mid-Flood	Bottom	19.50	8:32	8.60	8.65	29.23	20.20	3.59	3.4
CE	20210308	Cloudy	Moderate	Mid-Flood	Middle	10.25	14:46	9.81	8.33	29.57	23.09	2.71	3.9
CE	20210308	Cloudy	Moderate	Mid-Flood	Middle	10.25	14:46	9.81	8.53	29.88	22.69	2.54	4.0
CE	20210308	Cloudy	Moderate	Mid-Flood	Surface	1.00	14:47	8.88	8.44	30.09	23.04	2.83	3.1
CE	20210308	Cloudy	Moderate	Mid-Flood	Surface	1.00	14:47	9.32	8.39	30.08	22.88	2.46	4.4
CE	20210308	Cloudy	Moderate	Mid-Flood	Bottom	19.50	14:45	8.51	8.29	29.70	23.01	2.43	3.4
CE	20210308	Cloudy	Moderate	Mid-Flood	Bottom	19.50	14:45	9.11	8.44	30.28	22.93	2.24	3.3
CF	20210310	Cloudy	Moderate	Mid-Flood	Middle	10.55	14:18	9.37	8.36	31.51	22.58	2.40	3.4
CF	20210310	Cloudy	Moderate	Mid-Flood	Middle	10.55	14:18	10.62	8.60	30.87	22.38	2.79	2.9
CF	20210310	Cloudy	Moderate	Mid-Flood	Surface	1.00	14:19	9.55	8.33	31.60	22.22	2.75	2.6
CF	20210310	Cloudy	Moderate	Mid-Flood	Surface	1.00	14:19	9.94	8.56	30.84	22.42	2.39	2.6
CF	20210310	Cloudy	Moderate	Mid-Flood	Bottom	20.10	14:17	10.40	8.36	31.75	22.62	2.48	3.1
CF	20210310	Cloudy	Moderate	Mid-Flood	Bottom	20.10	14:17	9.92	8.48	30.75	22.53	2.50	2.9

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	D0 (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
CF	20210312	Cloudy	Moderate	Mid-Flood	Middle	10.35	15:34	9.04	8.29	30.20	24.83	2.36	4.2
CF	20210312	Cloudy	Moderate	Mid-Flood	Middle	10.35	15:34	9.58	8.64	29.93	24.78	2.14	4.2
CF	20210312	Cloudy	Moderate	Mid-Flood	Surface	1.00	15:35	9.56	8.33	30.45	24.83	2.63	4.0
CF	20210312	Cloudy	Moderate	Mid-Flood	Surface	1.00	15:35	9.19	8.36	30.05	24.87	2.79	3.9
CF	20210312	Cloudy	Moderate	Mid-Flood	Bottom	19.70	15:33	9.41	8.33	30.09	24.97	2.09	4.3
CF	20210312	Cloudy	Moderate	Mid-Flood	Bottom	19.70	15:33	8.96	8.25	30.80	24.73	2.19	3.4
CF	20210315	Cloudy	Moderate	Mid-Flood	Middle	10.20	8:01	9.18	8.37	29.91	23.35	3.14	3.2
CF	20210315	Cloudy	Moderate	Mid-Flood	Middle	10.20	8:01	8.97	8.54	29.83	23.41	3.32	3.1
CF	20210315	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:02	9.38	8.60	30.09	23.47	2.99	3.1
CF	20210315	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:02	9.17	8.46	29.80	23.25	2.86	2.5
CF	20210315	Cloudy	Moderate	Mid-Flood	Bottom	19.40	8:00	8.91	8.54	30.17	23.46	3.02	3.5
CF	20210315	Cloudy	Moderate	Mid-Flood	Bottom	19.40	8:00	9.31	8.27	30.58	23.31	3.33	3.7
CF	20210317	Cloudy	Moderate	Mid-Flood	Middle	10.80	8:01	9.53	8.44	31.65	23.69	2.13	3.1
CF	20210317	Cloudy	Moderate	Mid-Flood	Middle	10.80	8:01	8.57	8.31	31.41	23.67	2.28	3.4
CF	20210317	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:02	9.01	8.32	31.77	23.49	2.68	3.7
CF	20210317	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:02	9.03	8.37	31.08	23.52	2.86	4.4
CF	20210317	Cloudy	Moderate	Mid-Flood	Bottom	20.60	8:00	9.67	8.17	31.81	23.53	2.59	2.9
CF	20210317	Cloudy	Moderate	Mid-Flood	Bottom	20.60	8:00	9.07	8.28	31.48	23.75	2.40	3.5
CF	20210319	Cloudy	Moderate	Mid-Flood	Middle	9.60	8:01	9.38	8.20	31.61	23.36	2.03	3.1
CF	20210319	Cloudy	Moderate	Mid-Flood	Middle	9.60	8:01	8.68	8.32	31.19	23.43	2.27	3.2
CF	20210319	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:02	8.52	8.37	30.92	23.42	2.22	2.5
CF	20210319	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:02	9.72	8.21	31.21	23.18	2.45	3.1
CF	20210319	Cloudy	Moderate	Mid-Flood	Bottom	18.20	8:00	8.50	8.37	31.02	23.24	1.80	2.5
CF	20210319	Cloudy	Moderate	Mid-Flood	Bottom	18.20	8:00	9.77	8.25	30.82	23.34	2.00	3.7
CF	20210323	Cloudy	Moderate	Mid-Flood	Middle	9.60	8:01	9.99	8.45	31.00	20.49	2.89	2.9
CF	20210323	Cloudy	Moderate	Mid-Flood	Middle	9.60	8:01	10.12	8.30	30.18	20.51	2.65	2.8
CF	20210323	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:02	9.24	8.33	30.75	20.70	2.93	2.5

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
CF	20210323	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:02	10.45	8.56	31.11	20.55	3.06	2.8
CF	20210323	Cloudy	Moderate	Mid-Flood	Bottom	18.20	8:00	9.59	8.40	30.82	20.68	2.30	3.2
CF	20210323	Cloudy	Moderate	Mid-Flood	Bottom	18.20	8:00	9.61	8.34	30.57	20.44	2.24	2.5
CF	20210325	Cloudy	Moderate	Mid-Flood	Middle	10.45	13:46	10.30	8.34	30.68	26.34	1.91	2.5
CF	20210325	Cloudy	Moderate	Mid-Flood	Middle	10.45	13:46	9.00	8.40	30.61	26.47	2.19	2.5
CF	20210325	Cloudy	Moderate	Mid-Flood	Surface	1.00	13:47	10.14	8.37	31.36	26.67	2.48	2.5
CF	20210325	Cloudy	Moderate	Mid-Flood	Surface	1.00	13:47	10.08	8.37	30.87	26.55	2.87	2.5
CF	20210325	Cloudy	Moderate	Mid-Flood	Bottom	19.90	13:45	9.15	8.69	31.06	26.47	2.27	2.5
CF	20210325	Cloudy	Moderate	Mid-Flood	Bottom	19.90	13:45	9.71	8.54	31.16	26.71	2.18	3.4
CF	20210327	Sunny	Moderate	Mid-Flood	Middle	9.65	15:20	9.32	8.57	30.14	24.92	2.13	2.5
CF	20210327	Sunny	Moderate	Mid-Flood	Middle	9.65	15:20	8.87	8.46	30.30	24.47	2.50	3.5
CF	20210327	Sunny	Moderate	Mid-Flood	Surface	1.00	15:21	9.24	8.36	29.69	24.27	2.42	3.1
CF	20210327	Sunny	Moderate	Mid-Flood	Surface	1.00	15:21	9.27	8.38	30.08	24.72	2.72	2.5
CE	20210327	Sunny	Moderate	Mid-Flood	Bottom	19.60	18:31	9.20	8.29	30.16	24.17	1.94	3.2
CF	20210327	Sunny	Moderate	Mid-Flood	Bottom	18.30	15:19	8.28	8.47	29.84	24.83	2.04	2.9
CF	20210330	Sunny	Moderate	Mid-Flood	Middle	10.80	8:01	7.87	8.19	31.19	26.13	2.42	2.5
CF	20210330	Sunny	Moderate	Mid-Flood	Middle	10.80	8:01	8.30	8.30	30.98	26.46	2.35	2.5
CF	20210330	Sunny	Moderate	Mid-Flood	Surface	1.00	8:02	9.00	8.42	30.96	26.15	2.22	2.5
CF	20210330	Sunny	Moderate	Mid-Flood	Surface	1.00	8:02	8.06	8.31	31.09	26.42	2.59	2.5
CF	20210330	Sunny	Moderate	Mid-Flood	Bottom	20.60	8:00	9.23	8.24	31.17	26.43	1.64	2.5
CF	20210330	Sunny	Moderate	Mid-Flood	Bottom	20.60	8:00	8.21	8.42	31.01	26.25	1.77	2.5
WSR01	20210301	Cloudy	Moderate	Mid-Flood	Middle	4.45	8:53	10.63	8.46	26.99	20.57	1.95	2.8
WSR01	20210301	Cloudy	Moderate	Mid-Flood	Middle	4.45	8:53	9.00	8.32	27.36	20.30	2.51	2.5
WSR01	20210301	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:54	10.25	8.48	27.18	20.50	2.23	2.5
WSR01	20210301	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:54	10.05	8.38	26.71	20.30	2.19	2.5
WSR01	20210301	Cloudy	Moderate	Mid-Flood	Bottom	7.90	8:52	9.73	8.36	26.85	20.55	2.19	2.5
WSR01	20210301	Cloudy	Moderate	Mid-Flood	Bottom	7.90	8:52	9.27	8.50	26.82	20.49	1.89	2.7

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR01	20210303	Cloudy	Moderate	Mid-Flood	Middle	4.35	8:56	9.73	8.41	30.95	19.92	2.29	3.7
WSR01	20210303	Cloudy	Moderate	Mid-Flood	Middle	4.35	8:56	8.51	8.36	31.04	19.86	2.52	4.3
WSR01	20210303	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:57	8.87	8.26	30.55	19.87	2.27	3.7
WSR01	20210303	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:57	9.63	8.21	30.59	19.77	2.51	4.2
WSR01	20210303	Cloudy	Moderate	Mid-Flood	Bottom	7.70	8:55	8.56	8.28	30.68	19.88	1.95	3.1
WSR01	20210303	Cloudy	Moderate	Mid-Flood	Bottom	7.70	8:55	8.43	8.22	31.11	19.73	2.15	4.4
WSR01	20210305	Cloudy	Moderate	Mid-Flood	Middle	4.40	9:25	9.07	8.39	28.55	20.42	2.23	3.5
WSR01	20210305	Cloudy	Moderate	Mid-Flood	Middle	4.40	9:25	9.79	8.54	29.44	20.59	2.47	3.8
WSR01	20210305	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:26	9.41	8.70	28.92	20.53	2.29	3.5
WSR01	20210305	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:26	9.52	8.42	29.43	20.58	2.57	3.1
WSR01	20210305	Cloudy	Moderate	Mid-Flood	Bottom	7.80	9:24	8.47	8.54	29.30	20.37	1.46	3.8
WSR01	20210305	Cloudy	Moderate	Mid-Flood	Bottom	7.80	9:24	9.33	8.47	28.86	20.36	1.60	3.5
WSR01	20210308	Cloudy	Moderate	Mid-Flood	Middle	4.55	13:24	8.85	8.58	29.57	22.49	2.63	3.1
WSR01	20210308	Cloudy	Moderate	Mid-Flood	Middle	4.55	13:24	8.91	8.30	29.59	22.76	2.59	2.5
WSR01	20210308	Cloudy	Moderate	Mid-Flood	Surface	1.00	13:25	9.01	8.44	30.25	22.83	2.58	2.8
WSR01	20210308	Cloudy	Moderate	Mid-Flood	Surface	1.00	13:25	9.52	8.54	29.29	22.46	2.44	2.8
WSR01	20210308	Cloudy	Moderate	Mid-Flood	Bottom	8.10	13:23	9.80	8.38	29.32	22.83	2.65	3.1
WSR01	20210308	Cloudy	Moderate	Mid-Flood	Bottom	8.10	13:23	9.19	8.47	29.83	22.63	2.45	2.7
WSR01	20210310	Cloudy	Moderate	Mid-Flood	Middle	4.50	14:44	9.84	8.58	31.34	22.19	2.69	2.9
WSR01	20210310	Cloudy	Moderate	Mid-Flood	Middle	4.50	14:44	9.86	8.64	30.64	22.24	2.52	2.5
WSR01	20210310	Cloudy	Moderate	Mid-Flood	Surface	1.00	14:45	9.83	8.58	30.62	22.16	2.78	2.8
WSR01	20210310	Cloudy	Moderate	Mid-Flood	Surface	1.00	14:45	10.39	8.40	30.93	22.32	2.81	6.3
WSR01	20210310	Cloudy	Moderate	Mid-Flood	Bottom	8.00	14:43	10.39	8.63	31.63	22.43	2.20	2.5
WSR01	20210310	Cloudy	Moderate	Mid-Flood	Bottom	8.00	14:43	9.63	8.51	30.64	22.57	2.14	3.1
WSR01	20210312	Cloudy	Moderate	Mid-Flood	Middle	4.55	16:03	8.88	8.41	29.87	25.01	2.57	3.9
WSR01	20210312	Cloudy	Moderate	Mid-Flood	Middle	4.55	16:03	8.88	8.29	30.87	24.90	2.73	3.0
WSR01	20210312	Cloudy	Moderate	Mid-Flood	Surface	1.00	16:04	9.59	8.42	30.19	24.78	2.97	3.1

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR01	20210312	Cloudy	Moderate	Mid-Flood	Surface	1.00	16:04	9.70	8.24	30.67	24.65	2.99	2.6
WSR01	20210312	Cloudy	Moderate	Mid-Flood	Bottom	8.10	16:02	9.53	8.30	30.60	24.75	2.16	3.3
WSR01	20210312	Cloudy	Moderate	Mid-Flood	Bottom	8.10	16:02	9.21	8.30	30.22	24.66	2.07	4.7
WSR01	20210315	Cloudy	Moderate	Mid-Flood	Middle	4.40	8:29	9.14	8.49	30.47	23.53	2.12	3.0
WSR01	20210315	Cloudy	Moderate	Mid-Flood	Middle	4.40	8:29	9.26	8.34	30.73	23.52	2.15	2.5
WSR01	20210315	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:30	9.05	8.54	30.28	23.35	2.05	4.1
WSR01	20210315	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:30	9.60	8.35	29.83	23.33	2.24	4.0
WSR01	20210315	Cloudy	Moderate	Mid-Flood	Bottom	7.80	8:28	8.89	8.56	30.82	23.51	2.14	3.9
WSR01	20210315	Cloudy	Moderate	Mid-Flood	Bottom	7.80	8:28	9.76	8.37	29.81	23.29	2.15	3.3
WSR01	20210317	Cloudy	Moderate	Mid-Flood	Middle	4.75	8:30	9.92	8.42	31.72	23.62	2.24	3.4
WSR01	20210317	Cloudy	Moderate	Mid-Flood	Middle	4.75	8:30	9.70	8.46	30.76	23.64	2.64	3.6
WSR01	20210317	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:31	9.90	8.34	31.46	23.62	2.38	3.3
WSR01	20210317	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:31	9.13	8.44	31.67	23.81	2.63	3.8
WSR01	20210317	Cloudy	Moderate	Mid-Flood	Bottom	8.50	8:29	8.70	8.19	30.93	23.63	2.20	3.8
WSR01	20210317	Cloudy	Moderate	Mid-Flood	Bottom	8.50	8:29	8.92	8.31	30.58	23.78	1.90	3.2
WSR01	20210319	Cloudy	Moderate	Mid-Flood	Middle	4.60	8:29	8.64	8.41	30.72	23.61	2.27	2.8
WSR01	20210319	Cloudy	Moderate	Mid-Flood	Middle	4.60	8:29	9.09	8.24	31.85	23.33	2.01	2.9
WSR01	20210319	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:30	9.38	8.20	31.87	23.31	1.95	2.8
WSR01	20210319	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:30	9.15	8.49	31.62	23.47	1.90	3.2
WSR01	20210319	Cloudy	Moderate	Mid-Flood	Bottom	8.20	8:28	9.75	8.26	30.69	23.30	1.72	2.5
WSR01	20210319	Cloudy	Moderate	Mid-Flood	Bottom	8.20	8:28	9.55	8.17	31.69	23.48	1.63	3.0
WSR01	20210323	Cloudy	Moderate	Mid-Flood	Middle	4.45	8:25	8.78	8.42	30.64	20.48	2.61	2.5
WSR01	20210323	Cloudy	Moderate	Mid-Flood	Middle	4.45	8:25	10.73	8.52	30.79	20.67	2.33	3.7
WSR01	20210323	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:26	8.89	8.31	30.55	20.64	2.73	2.5
WSR01	20210323	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:26	10.71	8.45	30.26	20.68	2.99	2.5
WSR01	20210323	Cloudy	Moderate	Mid-Flood	Bottom	7.90	8:24	10.37	8.42	30.25	20.66	2.44	2.5
WSR01	20210323	Cloudy	Moderate	Mid-Flood	Bottom	7.90	8:24	9.54	8.42	30.14	20.54	2.65	2.5

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR01	20210325	Cloudy	Moderate	Mid-Flood	Middle	4.20	14:12	10.49	8.40	31.59	26.48	2.23	3.0
WSR01	20210325	Cloudy	Moderate	Mid-Flood	Middle	4.20	14:12	9.01	8.49	31.27	26.45	2.60	2.5
WSR01	20210325	Cloudy	Moderate	Mid-Flood	Surface	1.00	14:13	9.44	8.67	30.47	26.55	2.88	3.1
WSR01	20210325	Cloudy	Moderate	Mid-Flood	Surface	1.00	14:13	9.10	8.52	31.08	26.53	2.75	2.9
WSR01	20210325	Cloudy	Moderate	Mid-Flood	Bottom	7.40	14:11	9.07	8.70	30.39	26.35	2.18	3.0
WSR01	20210325	Cloudy	Moderate	Mid-Flood	Bottom	7.40	14:11	9.02	8.68	30.62	26.54	1.94	5.1
WSR01	20210327	Sunny	Moderate	Mid-Flood	Middle	4.20	15:47	8.36	8.27	30.28	24.62	2.21	2.5
WSR01	20210327	Sunny	Moderate	Mid-Flood	Middle	4.20	15:47	8.67	8.32	30.09	24.85	2.54	2.5
WSR01	20210327	Sunny	Moderate	Mid-Flood	Surface	1.00	15:48	8.55	8.26	30.06	24.72	2.67	3.4
WSR01	20210327	Sunny	Moderate	Mid-Flood	Surface	1.00	15:48	8.11	8.29	29.80	24.22	2.44	3.4
WSR01	20210327	Sunny	Moderate	Mid-Flood	Bottom	7.40	15:46	8.95	8.54	30.42	24.66	2.41	3.5
WSR01	20210327	Sunny	Moderate	Mid-Flood	Bottom	7.40	15:46	8.35	8.39	29.89	24.24	2.07	2.5
WSR01	20210330	Sunny	Moderate	Mid-Flood	Middle	4.75	8:25	8.58	8.19	31.12	26.51	2.20	2.5
WSR01	20210330	Sunny	Moderate	Mid-Flood	Middle	4.75	8:25	7.82	8.43	31.10	26.25	2.18	2.5
WSR01	20210330	Sunny	Moderate	Mid-Flood	Surface	1.00	8:26	8.12	8.25	31.01	26.51	2.53	2.5
WSR01	20210330	Sunny	Moderate	Mid-Flood	Surface	1.00	8:26	8.34	8.41	31.02	26.38	2.49	2.5
WSR01	20210330	Sunny	Moderate	Mid-Flood	Bottom	8.50	8:24	8.88	8.20	30.96	26.43	1.57	2.5
WSR01	20210330	Sunny	Moderate	Mid-Flood	Bottom	8.50	8:24	8.96	8.43	31.25	26.48	1.78	2.5
WSR02	20210301	Cloudy	Moderate	Mid-Flood	Middle	4.90	10:04	9.40	8.44	27.41	20.70	1.86	2.9
WSR02	20210301	Cloudy	Moderate	Mid-Flood	Middle	4.90	10:04	9.66	8.29	26.96	20.63	2.13	3.3
WSR02	20210301	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:05	9.73	8.47	27.10	20.81	2.76	2.8
WSR02	20210301	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:05	9.87	8.31	26.89	20.67	2.69	2.5
WSR02	20210301	Cloudy	Moderate	Mid-Flood	Bottom	8.80	10:03	9.29	8.32	27.07	20.61	2.05	2.7
WSR02	20210301	Cloudy	Moderate	Mid-Flood	Bottom	8.80	10:03	9.68	8.30	27.40	20.49	1.55	2.8
WSR02	20210303	Cloudy	Moderate	Mid-Flood	Middle	4.95	10:03	8.92	8.37	31.80	20.03	2.08	4.3
WSR02	20210303	Cloudy	Moderate	Mid-Flood	Middle	4.95	10:03	9.03	8.31	31.53	19.89	2.27	4.3
WSR02	20210303	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:04	9.49	8.28	31.86	20.06	2.70	3.9

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR02	20210303	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:04	8.56	8.34	30.74	20.09	2.84	2.8
WSR02	20210303	Cloudy	Moderate	Mid-Flood	Bottom	8.90	10:02	9.48	8.18	31.09	20.12	2.13	4.3
WSR02	20210303	Cloudy	Moderate	Mid-Flood	Bottom	8.90	10:02	8.83	8.33	31.78	19.98	1.96	3.1
WSR02	20210305	Cloudy	Moderate	Mid-Flood	Middle	4.80	10:26	9.15	8.57	28.82	20.74	2.51	3.0
WSR02	20210305	Cloudy	Moderate	Mid-Flood	Middle	4.80	10:26	9.81	8.50	28.67	20.66	2.40	3.6
WSR02	20210305	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:27	9.97	8.50	29.69	20.64	2.58	3.8
WSR02	20210305	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:27	8.96	8.46	29.03	20.62	2.61	3.2
WSR02	20210305	Cloudy	Moderate	Mid-Flood	Bottom	8.60	10:25	8.31	8.60	29.01	20.72	2.25	3.0
WSR02	20210305	Cloudy	Moderate	Mid-Flood	Bottom	8.60	10:25	9.29	8.65	29.28	20.73	2.28	3.5
WSR02	20210308	Cloudy	Moderate	Mid-Flood	Middle	4.60	14:28	9.39	8.54	29.66	22.92	2.63	3.2
WSR02	20210308	Cloudy	Moderate	Mid-Flood	Middle	4.60	14:28	9.58	8.47	30.02	22.78	2.60	3.0
WSR02	20210308	Cloudy	Moderate	Mid-Flood	Surface	1.00	14:29	8.66	8.35	29.79	22.58	2.58	5.0
WSR02	20210308	Cloudy	Moderate	Mid-Flood	Surface	1.00	14:29	9.26	8.31	30.46	22.68	2.43	3.9
WSR02	20210308	Cloudy	Moderate	Mid-Flood	Bottom	8.20	14:27	9.50	8.44	30.57	22.64	2.50	3.9
WSR02	20210308	Cloudy	Moderate	Mid-Flood	Bottom	8.20	14:27	8.63	8.45	30.17	22.96	2.51	3.4
WSR02	20210310	Cloudy	Moderate	Mid-Flood	Middle	4.80	15:05	9.22	8.50	31.66	22.50	1.75	2.5
WSR02	20210310	Cloudy	Moderate	Mid-Flood	Middle	4.80	15:05	10.43	8.42	31.05	22.46	2.02	3.2
WSR02	20210310	Cloudy	Moderate	Mid-Flood	Surface	1.00	15:06	9.60	8.67	31.28	22.08	2.85	2.7
WSR02	20210310	Cloudy	Moderate	Mid-Flood	Surface	1.00	15:06	9.96	8.37	30.52	22.11	2.87	2.9
WSR02	20210310	Cloudy	Moderate	Mid-Flood	Bottom	8.60	15:04	9.72	8.58	31.61	22.27	2.41	2.6
WSR02	20210310	Cloudy	Moderate	Mid-Flood	Bottom	8.60	15:04	10.49	8.42	30.69	22.41	2.53	2.5
WSR02	20210312	Cloudy	Moderate	Mid-Flood	Middle	4.75	16:26	9.21	8.60	30.04	24.60	2.43	2.5
WSR02	20210312	Cloudy	Moderate	Mid-Flood	Middle	4.75	16:26	9.62	8.38	30.55	24.73	2.42	3.8
WSR02	20210312	Cloudy	Moderate	Mid-Flood	Surface	1.00	16:27	9.61	8.40	30.81	24.75	2.55	3.6
WSR02	20210312	Cloudy	Moderate	Mid-Flood	Surface	1.00	16:27	9.04	8.53	30.79	24.68	2.62	3.7
WSR02	20210312	Cloudy	Moderate	Mid-Flood	Bottom	8.50	16:25	9.53	8.30	29.99	24.82	1.89	3.1
WSR02	20210312	Cloudy	Moderate	Mid-Flood	Bottom	8.50	16:25	9.07	8.52	29.88	24.90	2.10	2.9

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR02	20210315	Cloudy	Moderate	Mid-Flood	Middle	4.55	8:54	9.18	8.56	30.43	23.38	1.88	4.5
WSR02	20210315	Cloudy	Moderate	Mid-Flood	Middle	4.55	8:54	9.25	8.28	30.80	23.71	2.17	3.2
WSR02	20210315	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:55	9.79	8.31	30.46	23.45	2.72	3.8
WSR02	20210315	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:55	9.20	8.58	29.87	23.54	2.80	3.4
WSR02	20210315	Cloudy	Moderate	Mid-Flood	Bottom	8.10	8:53	9.66	8.58	30.33	23.43	2.40	3.5
WSR02	20210315	Cloudy	Moderate	Mid-Flood	Bottom	8.10	8:53	9.61	8.34	29.87	23.69	2.29	3.4
WSR02	20210317	Cloudy	Moderate	Mid-Flood	Middle	4.55	8:53	9.16	8.26	31.42	23.90	2.66	4.0
WSR02	20210317	Cloudy	Moderate	Mid-Flood	Middle	4.55	8:53	9.06	8.41	30.58	23.75	2.63	3.8
WSR02	20210317	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:54	9.54	8.26	31.73	23.80	2.36	2.8
WSR02	20210317	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:54	9.65	8.30	31.39	23.90	2.10	2.5
WSR02	20210317	Cloudy	Moderate	Mid-Flood	Bottom	8.10	8:52	9.44	8.49	30.67	24.05	2.61	2.5
WSR02	20210317	Cloudy	Moderate	Mid-Flood	Bottom	8.10	8:52	8.89	8.25	31.84	23.74	2.37	3.7
WSR02	20210319	Cloudy	Moderate	Mid-Flood	Middle	4.80	8:52	9.90	8.42	30.65	23.43	2.33	3.4
WSR02	20210319	Cloudy	Moderate	Mid-Flood	Middle	4.80	8:52	8.46	8.36	31.35	23.24	2.22	4.0
WSR02	20210319	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:53	9.54	8.34	30.56	23.62	2.45	3.5
WSR02	20210319	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:53	9.12	8.20	30.52	23.35	2.65	3.1
WSR02	20210319	Cloudy	Moderate	Mid-Flood	Bottom	8.60	8:51	8.66	8.37	31.27	23.34	1.46	2.8
WSR02	20210319	Cloudy	Moderate	Mid-Flood	Bottom	8.60	8:51	8.49	8.31	31.82	23.44	1.36	3.5
WSR02	20210323	Cloudy	Moderate	Mid-Flood	Middle	4.55	8:45	10.67	8.40	31.10	20.47	2.28	2.7
WSR02	20210323	Cloudy	Moderate	Mid-Flood	Middle	4.55	8:45	10.72	8.35	30.52	20.53	2.37	2.5
WSR02	20210323	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:46	9.65	8.28	31.21	20.61	2.88	3.0
WSR02	20210323	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:46	10.28	8.55	30.48	20.72	3.11	2.5
WSR02	20210323	Cloudy	Moderate	Mid-Flood	Bottom	8.10	8:44	9.09	8.36	30.31	20.64	2.45	2.8
WSR02	20210323	Cloudy	Moderate	Mid-Flood	Bottom	8.10	8:44	9.28	8.59	30.66	20.64	2.27	2.5
WSR02	20210325	Cloudy	Moderate	Mid-Flood	Middle	4.95	14:33	9.37	8.50	30.78	26.58	2.32	3.4
WSR02	20210325	Cloudy	Moderate	Mid-Flood	Middle	4.95	14:33	10.31	8.45	31.57	26.46	2.64	3.3
WSR02	20210325	Cloudy	Moderate	Mid-Flood	Surface	1.00	14:34	9.08	8.52	30.51	26.51	2.38	3.0

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR02	20210325	Cloudy	Moderate	Mid-Flood	Surface	1.00	14:34	9.02	8.55	31.43	26.38	2.76	3.7
WSR02	20210325	Cloudy	Moderate	Mid-Flood	Bottom	8.90	14:32	10.04	8.34	30.36	26.55	2.39	3.4
WSR02	20210325	Cloudy	Moderate	Mid-Flood	Bottom	8.90	14:32	10.57	8.55	30.83	26.52	2.24	3.5
WSR02	20210327	Sunny	Moderate	Mid-Flood	Middle	4.50	16:08	9.08	8.49	30.53	24.37	2.26	2.5
WSR02	20210327	Sunny	Moderate	Mid-Flood	Middle	4.50	16:08	8.56	8.43	30.00	24.33	2.03	2.7
WSR02	20210327	Sunny	Moderate	Mid-Flood	Surface	1.00	16:09	9.22	8.53	29.73	24.31	2.60	2.5
WSR02	20210327	Sunny	Moderate	Mid-Flood	Surface	1.00	16:09	9.10	8.42	30.41	24.85	2.74	3.2
WSR02	20210327	Sunny	Moderate	Mid-Flood	Bottom	8.00	16:07	8.69	8.38	29.85	24.80	2.13	2.5
WSR02	20210327	Sunny	Moderate	Mid-Flood	Bottom	8.00	16:07	8.63	8.43	29.68	24.25	2.01	3.5
WSR02	20210330	Sunny	Moderate	Mid-Flood	Middle	4.65	8:44	8.00	8.35	31.04	26.61	2.00	2.5
WSR02	20210330	Sunny	Moderate	Mid-Flood	Middle	4.65	8:44	7.88	8.24	31.25	26.64	2.16	2.5
WSR02	20210330	Sunny	Moderate	Mid-Flood	Surface	1.00	8:45	8.44	8.29	31.02	26.33	2.87	2.5
WSR02	20210330	Sunny	Moderate	Mid-Flood	Surface	1.00	8:45	7.97	8.27	31.11	26.73	2.63	2.5
WSR02	20210330	Sunny	Moderate	Mid-Flood	Bottom	8.30	8:43	8.59	8.40	30.94	26.66	2.39	2.5
WSR02	20210330	Sunny	Moderate	Mid-Flood	Bottom	8.30	8:43	8.44	8.22	31.02	26.42	2.57	2.5
WSR03	20210301	Cloudy	Moderate	Mid-Flood	Middle	4.25	9:44	8.91	8.23	27.32	20.73	2.45	3.1
WSR03	20210301	Cloudy	Moderate	Mid-Flood	Middle	4.25	9:44	9.30	8.44	27.22	20.59	2.45	3.2
WSR03	20210301	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:45	9.50	8.21	27.01	20.48	2.12	2.9
WSR03	20210301	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:45	9.87	8.21	26.78	20.53	2.66	2.5
WSR03	20210301	Cloudy	Moderate	Mid-Flood	Bottom	7.50	9:43	9.86	8.29	26.91	20.40	2.11	3.0
WSR03	20210301	Cloudy	Moderate	Mid-Flood	Bottom	7.50	9:43	9.95	8.26	26.89	20.64	1.68	2.7
WSR03	20210303	Cloudy	Moderate	Mid-Flood	Middle	3.95	9:43	8.62	8.17	31.22	20.13	2.50	3.8
WSR03	20210303	Cloudy	Moderate	Mid-Flood	Middle	3.95	9:43	9.00	8.23	31.53	20.01	2.62	3.5
WSR03	20210303	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:44	9.10	8.49	31.01	19.97	2.53	4.6
WSR03	20210303	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:44	8.81	8.23	31.75	20.12	2.76	3.2
WSR03	20210303	Cloudy	Moderate	Mid-Flood	Bottom	6.90	9:42	8.89	8.48	30.76	20.04	2.23	4.6
WSR03	20210303	Cloudy	Moderate	Mid-Flood	Bottom	6.90	9:42	8.58	8.46	31.80	20.02	1.99	4.7

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR03	20210305	Cloudy	Moderate	Mid-Flood	Middle	3.80	10:06	8.41	8.55	28.94	20.68	2.37	5.8
WSR03	20210305	Cloudy	Moderate	Mid-Flood	Middle	3.80	10:06	8.64	8.50	29.80	20.70	2.23	2.7
WSR03	20210305	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:07	9.56	8.55	29.52	20.63	2.39	3.2
WSR03	20210305	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:07	9.74	8.51	29.69	20.57	2.55	3.6
WSR03	20210305	Cloudy	Moderate	Mid-Flood	Bottom	6.60	10:05	9.28	8.52	28.66	20.54	2.07	3.8
WSR03	20210305	Cloudy	Moderate	Mid-Flood	Bottom	6.60	10:05	8.75	8.46	29.48	20.66	1.83	4.6
WSR03	20210308	Cloudy	Moderate	Mid-Flood	Middle	3.95	14:08	9.33	8.27	29.44	22.75	2.83	3.3
WSR03	20210308	Cloudy	Moderate	Mid-Flood	Middle	3.95	14:08	8.79	8.57	30.43	22.53	2.54	3.2
WSR03	20210308	Cloudy	Moderate	Mid-Flood	Surface	1.00	14:09	9.16	8.59	29.76	22.92	3.17	2.8
WSR03	20210308	Cloudy	Moderate	Mid-Flood	Surface	1.00	14:09	9.14	8.51	29.58	22.88	2.94	2.5
WSR03	20210308	Cloudy	Moderate	Mid-Flood	Bottom	6.90	14:07	8.16	8.41	29.35	22.93	2.26	2.6
WSR03	20210308	Cloudy	Moderate	Mid-Flood	Bottom	6.90	14:07	8.53	8.47	29.41	22.68	2.42	3.0
WSR03	20210310	Cloudy	Moderate	Mid-Flood	Middle	3.95	15:21	9.76	8.38	30.97	22.34	2.57	2.6
WSR03	20210310	Cloudy	Moderate	Mid-Flood	Middle	3.95	15:21	9.85	8.46	31.07	22.37	2.73	3.1
WSR03	20210310	Cloudy	Moderate	Mid-Flood	Surface	1.00	15:22	10.47	8.37	31.88	22.23	3.14	2.9
WSR03	20210310	Cloudy	Moderate	Mid-Flood	Surface	1.00	15:22	10.27	8.54	30.51	22.05	2.77	3.2
WSR03	20210310	Cloudy	Moderate	Mid-Flood	Bottom	6.90	15:20	9.54	8.34	30.50	22.07	1.95	2.5
WSR03	20210310	Cloudy	Moderate	Mid-Flood	Bottom	6.90	15:20	9.69	8.50	30.85	22.13	2.06	3.4
WSR03	20210312	Cloudy	Moderate	Mid-Flood	Middle	4.15	16:42	9.40	8.60	30.25	24.64	2.30	3.9
WSR03	20210312	Cloudy	Moderate	Mid-Flood	Middle	4.15	16:42	9.63	8.53	29.91	24.79	2.67	3.7
WSR03	20210312	Cloudy	Moderate	Mid-Flood	Surface	1.00	16:43	8.79	8.25	30.34	24.55	3.01	3.8
WSR03	20210312	Cloudy	Moderate	Mid-Flood	Surface	1.00	16:43	9.44	8.51	29.84	24.50	2.83	3.7
WSR03	20210312	Cloudy	Moderate	Mid-Flood	Bottom	7.30	16:41	8.86	8.30	30.73	24.52	2.32	4.6
WSR03	20210312	Cloudy	Moderate	Mid-Flood	Bottom	7.30	16:41	9.77	8.57	30.77	24.83	2.23	3.7
WSR03	20210315	Cloudy	Moderate	Mid-Flood	Middle	3.70	9:12	9.63	8.51	30.41	23.52	2.64	3.9
WSR03	20210315	Cloudy	Moderate	Mid-Flood	Middle	3.70	9:12	9.25	8.44	30.80	23.50	2.70	3.9
WSR03	20210315	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:13	9.37	8.56	30.42	23.64	2.60	4.2

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	D0 (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR03	20210315	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:13	9.46	8.54	30.48	23.41	2.41	3.3
WSR03	20210315	Cloudy	Moderate	Mid-Flood	Bottom	6.40	9:11	9.20	8.54	30.21	23.55	2.05	4.1
WSR03	20210315	Cloudy	Moderate	Mid-Flood	Bottom	6.40	9:11	9.59	8.58	30.48	23.57	2.17	3.7
WSR03	20210317	Cloudy	Moderate	Mid-Flood	Middle	3.75	9:09	8.84	8.26	31.62	23.93	2.13	4.0
WSR03	20210317	Cloudy	Moderate	Mid-Flood	Middle	3.75	9:09	8.61	8.27	31.64	23.91	2.28	3.0
WSR03	20210317	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:10	9.77	8.24	30.90	23.90	2.35	3.8
WSR03	20210317	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:10	9.07	8.21	30.81	23.77	2.41	3.0
WSR03	20210317	Cloudy	Moderate	Mid-Flood	Bottom	6.50	9:08	9.20	8.41	31.72	23.65	1.84	5.0
WSR03	20210317	Cloudy	Moderate	Mid-Flood	Bottom	6.50	9:08	9.69	8.17	31.74	24.01	2.02	3.2
WSR03	20210319	Cloudy	Moderate	Mid-Flood	Middle	3.75	9:09	8.48	8.50	31.50	23.46	1.91	2.5
WSR03	20210319	Cloudy	Moderate	Mid-Flood	Middle	3.75	9:09	9.88	8.39	31.88	23.37	2.29	2.8
WSR03	20210319	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:10	8.74	8.45	31.73	23.57	2.29	2.5
WSR03	20210319	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:10	9.41	8.47	31.76	23.56	2.42	2.9
WSR03	20210319	Cloudy	Moderate	Mid-Flood	Bottom	6.50	9:08	9.82	8.30	30.89	23.45	1.63	2.5
WSR03	20210319	Cloudy	Moderate	Mid-Flood	Bottom	6.50	9:08	9.21	8.30	30.62	23.48	1.90	2.9
WSR03	20210323	Cloudy	Moderate	Mid-Flood	Middle	4.05	8:59	9.95	8.44	31.09	20.50	2.63	3.1
WSR03	20210323	Cloudy	Moderate	Mid-Flood	Middle	4.05	8:59	9.75	8.40	30.55	20.49	2.22	3.3
WSR03	20210323	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:00	10.13	8.34	30.85	20.61	2.53	3.6
WSR03	20210323	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:00	9.23	8.35	30.33	20.43	2.36	4.3
WSR03	20210323	Cloudy	Moderate	Mid-Flood	Bottom	7.10	8:58	8.99	8.59	30.14	20.56	2.50	3.2
WSR03	20210323	Cloudy	Moderate	Mid-Flood	Bottom	7.10	8:58	9.31	8.39	30.47	20.44	2.24	3.3
WSR03	20210325	Cloudy	Moderate	Mid-Flood	Middle	3.90	14:51	9.27	8.39	30.73	26.47	2.23	3.6
WSR03	20210325	Cloudy	Moderate	Mid-Flood	Middle	3.90	14:51	8.96	8.45	31.54	26.49	2.49	3.6
WSR03	20210325	Cloudy	Moderate	Mid-Flood	Surface	1.00	14:52	9.93	8.55	31.36	26.32	2.06	3.8
WSR03	20210325	Cloudy	Moderate	Mid-Flood	Surface	1.00	14:52	10.61	8.40	31.29	26.52	2.16	2.8
WSR03	20210325	Cloudy	Moderate	Mid-Flood	Bottom	6.80	14:50	9.04	8.57	30.49	26.49	2.10	4.0
WSR03	20210325	Cloudy	Moderate	Mid-Flood	Bottom	6.80	14:50	9.95	8.65	30.81	26.47	2.18	4.4

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	D0 (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR03	20210327	Sunny	Moderate	Mid-Flood	Middle	3.90	16:26	8.17	8.40	30.16	24.48	2.29	2.6
WSR03	20210327	Sunny	Moderate	Mid-Flood	Middle	3.90	16:26	8.13	8.42	30.46	24.50	1.99	4.6
WSR03	20210327	Sunny	Moderate	Mid-Flood	Surface	1.00	16:27	9.12	8.53	30.12	24.22	2.34	2.5
WSR03	20210327	Sunny	Moderate	Mid-Flood	Surface	1.00	16:27	8.41	8.51	29.78	24.42	2.41	3.5
WSR03	20210327	Sunny	Moderate	Mid-Flood	Bottom	6.80	16:25	8.16	8.35	29.97	24.64	1.56	3.4
WSR03	20210327	Sunny	Moderate	Mid-Flood	Bottom	6.80	16:25	8.10	8.56	30.55	24.29	1.63	3.5
WSR03	20210330	Sunny	Moderate	Mid-Flood	Middle	3.75	8:57	9.15	8.27	30.95	26.42	2.22	2.5
WSR03	20210330	Sunny	Moderate	Mid-Flood	Middle	3.75	8:57	7.82	8.28	31.15	26.47	1.87	2.5
WSR03	20210330	Sunny	Moderate	Mid-Flood	Surface	1.00	8:58	8.27	8.33	30.97	26.64	2.45	2.5
WSR03	20210330	Sunny	Moderate	Mid-Flood	Surface	1.00	8:58	8.33	8.21	31.05	26.57	2.36	2.5
WSR03	20210330	Sunny	Moderate	Mid-Flood	Bottom	6.50	8:56	8.64	8.29	31.02	26.46	2.09	2.5
WSR03	20210330	Sunny	Moderate	Mid-Flood	Bottom	6.50	8:56	9.12	8.36	31.01	26.53	2.18	2.5
WSR04	20210301	Cloudy	Moderate	Mid-Flood	Middle	3.50	9:27	9.31	8.48	26.77	20.50	1.87	2.6
WSR04	20210301	Cloudy	Moderate	Mid-Flood	Middle	3.50	9:27	10.06	8.20	27.06	20.42	2.54	2.5
WSR04	20210301	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:28	9.06	8.37	26.91	20.60	2.67	2.5
WSR04	20210301	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:28	9.51	8.21	27.31	20.36	2.22	3.1
WSR04	20210301	Cloudy	Moderate	Mid-Flood	Bottom	6.00	9:26	9.22	8.45	26.97	20.59	2.12	3.5
WSR04	20210301	Cloudy	Moderate	Mid-Flood	Bottom	6.00	9:26	9.43	8.19	27.34	20.38	1.70	2.9
WSR04	20210303	Cloudy	Moderate	Mid-Flood	Middle	3.60	9:26	9.18	8.18	30.62	19.91	2.28	5.4
WSR04	20210303	Cloudy	Moderate	Mid-Flood	Middle	3.60	9:26	9.35	8.20	30.69	20.03	2.48	3.8
WSR04	20210303	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:27	9.37	8.30	30.50	19.92	2.20	3.4
WSR04	20210303	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:27	9.36	8.46	30.90	19.84	2.18	4.5
WSR04	20210303	Cloudy	Moderate	Mid-Flood	Bottom	6.20	9:25	9.23	8.39	30.97	20.00	2.25	3.8
WSR04	20210303	Cloudy	Moderate	Mid-Flood	Bottom	6.20	9:25	8.41	8.49	31.60	19.87	2.22	4.0
WSR04	20210305	Cloudy	Moderate	Mid-Flood	Middle	3.40	9:49	8.41	8.70	29.22	20.60	1.99	3.7
WSR04	20210305	Cloudy	Moderate	Mid-Flood	Middle	3.40	9:49	8.46	8.50	29.41	20.53	1.90	3.5
WSR04	20210305	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:50	9.45	8.58	29.04	20.66	2.63	4.3

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR04	20210305	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:50	9.29	8.61	29.81	20.54	2.51	6.6
WSR04	20210305	Cloudy	Moderate	Mid-Flood	Bottom	5.80	9:48	9.25	8.56	29.36	20.35	1.77	4.8
WSR04	20210305	Cloudy	Moderate	Mid-Flood	Bottom	5.80	9:48	9.69	8.49	29.84	20.73	1.53	4.4
WSR04	20210308	Cloudy	Moderate	Mid-Flood	Middle	3.85	13:51	9.69	8.55	29.83	22.85	2.95	3.1
WSR04	20210308	Cloudy	Moderate	Mid-Flood	Middle	3.85	13:51	9.77	8.55	29.64	22.83	2.63	3.2
WSR04	20210308	Cloudy	Moderate	Mid-Flood	Surface	1.00	13:52	9.83	8.31	30.27	22.83	2.77	3.5
WSR04	20210308	Cloudy	Moderate	Mid-Flood	Surface	1.00	13:52	8.93	8.38	30.13	22.70	2.52	3.1
WSR04	20210308	Cloudy	Moderate	Mid-Flood	Bottom	6.70	13:50	8.43	8.43	29.77	22.68	2.33	2.9
WSR04	20210308	Cloudy	Moderate	Mid-Flood	Bottom	6.70	13:50	9.79	8.42	30.06	22.60	2.73	2.8
WSR04	20210310	Cloudy	Moderate	Mid-Flood	Middle	3.35	15:37	9.46	8.34	30.48	22.27	2.73	3.6
WSR04	20210310	Cloudy	Moderate	Mid-Flood	Middle	3.35	15:37	10.60	8.52	30.67	22.20	2.49	5.2
WSR04	20210310	Cloudy	Moderate	Mid-Flood	Surface	1.00	15:38	10.22	8.51	31.69	22.33	2.55	3.0
WSR04	20210310	Cloudy	Moderate	Mid-Flood	Surface	1.00	15:38	9.38	8.35	30.95	22.11	2.83	3.0
WSR04	20210310	Cloudy	Moderate	Mid-Flood	Bottom	5.70	15:36	10.28	8.57	30.98	22.35	2.39	2.5
WSR04	20210310	Cloudy	Moderate	Mid-Flood	Bottom	5.70	15:36	9.31	8.56	31.32	22.14	2.11	2.5
WSR04	20210312	Cloudy	Moderate	Mid-Flood	Middle	3.80	16:58	9.64	8.37	29.98	24.75	2.72	4.7
WSR04	20210312	Cloudy	Moderate	Mid-Flood	Middle	3.80	16:58	8.97	8.42	29.80	24.81	2.28	3.6
WSR04	20210312	Cloudy	Moderate	Mid-Flood	Surface	1.00	16:59	9.79	8.59	30.67	24.58	2.89	3.8
WSR04	20210312	Cloudy	Moderate	Mid-Flood	Surface	1.00	16:59	9.43	8.37	29.81	24.64	2.43	3.8
WSR04	20210312	Cloudy	Moderate	Mid-Flood	Bottom	6.60	16:57	8.86	8.24	30.47	24.96	2.10	3.4
WSR04	20210312	Cloudy	Moderate	Mid-Flood	Bottom	6.60	16:57	9.14	8.26	30.68	24.64	2.29	3.5
WSR04	20210315	Cloudy	Moderate	Mid-Flood	Middle	3.75	9:28	8.78	8.41	30.61	23.66	2.50	4.2
WSR04	20210315	Cloudy	Moderate	Mid-Flood	Middle	3.75	9:28	9.68	8.59	30.62	23.51	2.23	4.2
WSR04	20210315	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:29	9.82	8.58	30.44	23.61	2.77	3.1
WSR04	20210315	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:29	9.82	8.52	30.32	23.47	2.44	3.5
WSR04	20210315	Cloudy	Moderate	Mid-Flood	Bottom	6.50	9:27	9.65	8.36	30.11	23.51	2.00	4.6
WSR04	20210315	Cloudy	Moderate	Mid-Flood	Bottom	6.50	9:27	9.70	8.42	30.07	23.65	1.83	5

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR04	20210317	Cloudy	Moderate	Mid-Flood	Middle	3.60	9:27	9.28	8.40	31.68	23.96	2.55	3.5
WSR04	20210317	Cloudy	Moderate	Mid-Flood	Middle	3.60	9:27	9.73	8.20	30.82	24.11	2.64	3.3
WSR04	20210317	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:28	9.52	8.17	30.72	23.94	2.66	3.0
WSR04	20210317	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:28	9.72	8.38	30.96	23.83	2.77	4.0
WSR04	20210317	Cloudy	Moderate	Mid-Flood	Bottom	6.20	9:26	9.40	8.27	31.09	24.02	2.16	2.9
WSR04	20210317	Cloudy	Moderate	Mid-Flood	Bottom	6.20	9:26	9.82	8.21	30.68	23.83	2.28	3.8
WSR04	20210319	Cloudy	Moderate	Mid-Flood	Middle	3.85	9:23	9.46	8.34	30.86	23.35	2.00	2.6
WSR04	20210319	Cloudy	Moderate	Mid-Flood	Middle	3.85	9:23	9.55	8.47	31.60	23.62	2.30	2.5
WSR04	20210319	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:24	9.38	8.49	31.66	23.54	2.15	2.7
WSR04	20210319	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:24	8.66	8.37	30.73	23.63	1.81	3.0
WSR04	20210319	Cloudy	Moderate	Mid-Flood	Bottom	6.70	9:22	9.49	8.17	30.90	23.48	1.57	2.9
WSR04	20210319	Cloudy	Moderate	Mid-Flood	Bottom	6.70	9:22	9.31	8.45	31.35	23.43	1.79	3.2
WSR04	20210323	Cloudy	Moderate	Mid-Flood	Middle	3.90	9:18	9.12	8.43	30.14	20.72	2.81	2.6
WSR04	20210323	Cloudy	Moderate	Mid-Flood	Middle	3.90	9:18	9.86	8.49	30.56	20.73	2.89	3.3
WSR04	20210323	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:19	10.11	8.56	30.22	20.71	2.58	3.3
WSR04	20210323	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:19	8.82	8.41	30.23	20.64	2.42	4.3
WSR04	20210323	Cloudy	Moderate	Mid-Flood	Bottom	6.80	9:17	10.14	8.44	30.61	20.64	2.15	2.5
WSR04	20210323	Cloudy	Moderate	Mid-Flood	Bottom	6.80	9:17	9.95	8.31	30.54	20.80	1.92	3.4
WSR04	20210325	Cloudy	Moderate	Mid-Flood	Middle	3.60	15:07	8.85	8.39	30.59	26.71	2.29	4.3
WSR04	20210325	Cloudy	Moderate	Mid-Flood	Middle	3.60	15:07	9.26	8.36	31.39	26.65	2.19	4.1
WSR04	20210325	Cloudy	Moderate	Mid-Flood	Surface	1.00	15:08	9.59	8.39	30.96	26.32	2.55	4.4
WSR04	20210325	Cloudy	Moderate	Mid-Flood	Surface	1.00	15:08	9.28	8.50	31.52	26.65	2.43	3.8
WSR04	20210325	Cloudy	Moderate	Mid-Flood	Bottom	6.20	15:06	9.35	8.54	31.40	26.52	2.03	3.8
WSR04	20210325	Cloudy	Moderate	Mid-Flood	Bottom	6.20	15:06	8.84	8.44	31.55	26.62	2.09	3.5
WSR04	20210327	Sunny	Moderate	Mid-Flood	Middle	3.55	16:42	8.22	8.43	30.33	24.45	2.66	2.8
WSR04	20210327	Sunny	Moderate	Mid-Flood	Middle	3.55	16:42	8.76	8.34	30.19	24.34	2.38	3.2
WSR04	20210327	Sunny	Moderate	Mid-Flood	Surface	1.00	16:43	9.12	8.37	30.56	24.38	2.89	3.9

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR04	20210327	Sunny	Moderate	Mid-Flood	Surface	1.00	16:43	8.77	8.36	30.28	24.57	2.49	4.7
WSR04	20210327	Sunny	Moderate	Mid-Flood	Bottom	6.10	16:41	8.05	8.26	30.28	24.55	2.22	4.4
WSR04	20210327	Sunny	Moderate	Mid-Flood	Bottom	6.10	16:41	8.45	8.39	30.31	24.39	2.30	5.6
WSR04	20210330	Sunny	Moderate	Mid-Flood	Middle	3.50	9:11	9.18	8.29	31.14	26.64	1.98	2.7
WSR04	20210330	Sunny	Moderate	Mid-Flood	Middle	3.50	9:11	8.22	8.45	31.02	26.64	2.34	2.5
WSR04	20210330	Sunny	Moderate	Mid-Flood	Surface	1.00	9:12	7.74	8.39	31.07	26.63	2.75	2.5
WSR04	20210330	Sunny	Moderate	Mid-Flood	Surface	1.00	9:12	8.82	8.36	31.05	26.60	2.56	2.5
WSR04	20210330	Sunny	Moderate	Mid-Flood	Bottom	6.00	9:10	7.97	8.40	30.95	26.75	2.41	2.5
WSR04	20210330	Sunny	Moderate	Mid-Flood	Bottom	6.00	9:10	8.57	8.28	31.17	26.83	2.16	2.5
WSR16	20210301	Cloudy	Moderate	Mid-Flood	Middle	8.45	9:38	10.65	8.34	26.96	20.48	2.55	4.1
WSR16	20210301	Cloudy	Moderate	Mid-Flood	Middle	8.45	9:38	9.27	8.34	27.15	20.36	1.99	2.5
WSR16	20210301	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:39	10.31	8.47	27.06	20.58	2.06	3.3
WSR16	20210301	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:39	10.15	8.20	27.17	20.47	2.19	2.8
WSR16	20210301	Cloudy	Moderate	Mid-Flood	Bottom	15.90	9:37	8.88	8.41	27.39	20.54	1.67	2.6
WSR16	20210301	Cloudy	Moderate	Mid-Flood	Bottom	15.90	9:37	10.12	8.32	27.03	20.38	1.67	2.5
WSR16	20210303	Cloudy	Moderate	Mid-Flood	Middle	8.05	9:41	9.37	8.30	31.14	20.00	2.19	4.3
WSR16	20210303	Cloudy	Moderate	Mid-Flood	Middle	8.05	9:41	8.95	8.38	31.20	20.10	2.12	5.1
WSR16	20210303	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:42	9.69	8.19	31.54	19.87	2.69	3.7
WSR16	20210303	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:42	8.81	8.17	31.74	19.97	2.39	5.5
WSR16	20210303	Cloudy	Moderate	Mid-Flood	Bottom	15.10	9:40	8.40	8.46	31.37	19.96	1.80	3.5
WSR16	20210303	Cloudy	Moderate	Mid-Flood	Bottom	15.10	9:40	9.51	8.38	30.56	19.97	1.72	3.2
WSR16	20210305	Cloudy	Moderate	Mid-Flood	Middle	8.30	10:10	9.89	8.60	29.24	20.49	2.04	5.4
WSR16	20210305	Cloudy	Moderate	Mid-Flood	Middle	8.30	10:10	9.54	8.48	29.11	20.60	2.25	4.8
WSR16	20210305	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:11	9.50	8.59	28.94	20.46	2.63	4.5
WSR16	20210305	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:11	8.87	8.63	29.70	20.43	2.76	4.2
WSR16	20210305	Cloudy	Moderate	Mid-Flood	Bottom	15.60	10:09	8.77	8.67	29.15	20.46	1.93	3.9
WSR16	20210305	Cloudy	Moderate	Mid-Flood	Bottom	15.60	10:09	8.79	8.68	28.49	20.52	1.90	4.0

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR16	20210308	Cloudy	Moderate	Mid-Flood	Middle	8.25	14:09	8.46	8.54	29.71	22.73	2.65	3.5
WSR16	20210308	Cloudy	Moderate	Mid-Flood	Middle	8.25	14:09	8.24	8.58	30.23	22.82	2.32	3.2
WSR16	20210308	Cloudy	Moderate	Mid-Flood	Surface	1.00	14:10	9.22	8.31	30.68	22.60	3.16	3.1
WSR16	20210308	Cloudy	Moderate	Mid-Flood	Surface	1.00	14:10	9.13	8.55	30.11	22.78	2.78	2.8
WSR16	20210308	Cloudy	Moderate	Mid-Flood	Bottom	15.50	14:08	9.43	8.51	29.36	22.78	2.35	3.6
WSR16	20210308	Cloudy	Moderate	Mid-Flood	Bottom	15.50	14:08	8.90	8.36	29.45	22.62	2.70	2.5
WSR16	20210310	Cloudy	Moderate	Mid-Flood	Middle	8.30	16:53	10.24	8.52	30.61	22.11	2.52	2.5
WSR16	20210310	Cloudy	Moderate	Mid-Flood	Middle	8.30	16:53	10.51	8.54	31.25	22.18	2.82	2.5
WSR16	20210310	Cloudy	Moderate	Mid-Flood	Surface	1.00	16:54	9.86	8.37	31.29	22.24	3.07	2.7
WSR16	20210310	Cloudy	Moderate	Mid-Flood	Surface	1.00	16:54	9.76	8.50	31.88	21.88	2.75	3.1
WSR16	20210310	Cloudy	Moderate	Mid-Flood	Bottom	15.60	16:52	9.66	8.58	30.82	21.83	2.47	2.7
WSR16	20210310	Cloudy	Moderate	Mid-Flood	Bottom	15.60	16:52	10.61	8.51	31.59	22.04	2.18	3.4
WSR16	20210312	Cloudy	Moderate	Mid-Flood	Middle	7.90	18:16	9.73	8.38	30.09	24.59	2.25	3.9
WSR16	20210312	Cloudy	Moderate	Mid-Flood	Middle	7.90	18:16	9.16	8.62	30.86	24.49	2.24	4.1
WSR16	20210312	Cloudy	Moderate	Mid-Flood	Surface	1.00	18:17	8.92	8.52	30.06	24.65	2.25	3.7
WSR16	20210312	Cloudy	Moderate	Mid-Flood	Surface	1.00	18:17	9.28	8.37	30.16	24.70	2.32	3.6
WSR16	20210312	Cloudy	Moderate	Mid-Flood	Bottom	14.80	18:15	9.60	8.56	29.78	24.44	2.19	5.4
WSR16	20210312	Cloudy	Moderate	Mid-Flood	Bottom	14.80	18:15	9.51	8.60	30.45	24.64	2.33	2.5
WSR16	20210315	Cloudy	Moderate	Mid-Flood	Middle	8.00	10:50	9.39	8.49	30.46	23.66	2.58	3.9
WSR16	20210315	Cloudy	Moderate	Mid-Flood	Middle	8.00	10:50	9.08	8.35	29.89	24.03	2.26	4.3
WSR16	20210315	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:51	9.74	8.49	30.57	23.76	2.27	3.1
WSR16	20210315	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:51	9.05	8.37	30.15	23.60	2.30	3.9
WSR16	20210315	Cloudy	Moderate	Mid-Flood	Bottom	15.00	10:49	9.59	8.60	30.26	23.75	1.65	3.4
WSR16	20210315	Cloudy	Moderate	Mid-Flood	Bottom	15.00	10:49	9.04	8.30	30.78	23.83	1.84	3.3
WSR16	20210317	Cloudy	Moderate	Mid-Flood	Middle	8.30	10:44	8.58	8.47	31.59	23.98	2.58	3.1
WSR16	20210317	Cloudy	Moderate	Mid-Flood	Middle	8.30	10:44	9.49	8.41	31.73	24.21	2.27	2.8
WSR16	20210317	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:45	9.65	8.45	31.38	24.04	2.27	2.5

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR16	20210317	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:45	8.38	8.24	31.52	23.93	2.66	2.6
WSR16	20210317	Cloudy	Moderate	Mid-Flood	Bottom	15.60	10:43	9.11	8.33	30.96	24.34	2.01	2.5
WSR16	20210317	Cloudy	Moderate	Mid-Flood	Bottom	15.60	10:43	9.94	8.48	30.67	24.09	2.30	2.5
WSR16	20210319	Cloudy	Moderate	Mid-Flood	Middle	7.85	10:51	9.46	8.50	31.84	23.77	1.82	2.5
WSR16	20210319	Cloudy	Moderate	Mid-Flood	Middle	7.85	10:51	9.46	8.49	31.04	23.68	1.74	2.5
WSR16	20210319	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:52	9.32	8.41	31.81	23.81	1.93	2.8
WSR16	20210319	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:52	9.38	8.44	30.96	23.88	2.07	3.0
WSR16	20210319	Cloudy	Moderate	Mid-Flood	Bottom	14.70	10:50	8.93	8.36	30.57	23.75	1.54	2.5
WSR16	20210319	Cloudy	Moderate	Mid-Flood	Bottom	14.70	10:50	8.54	8.30	31.03	23.87	1.83	2.5
WSR16	20210323	Cloudy	Moderate	Mid-Flood	Middle	8.05	10:40	10.38	8.50	30.17	20.94	2.90	3.5
WSR16	20210323	Cloudy	Moderate	Mid-Flood	Middle	8.05	10:40	10.09	8.33	30.65	20.85	2.90	3.3
WSR16	20210323	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:41	9.89	8.44	30.23	20.66	2.61	3.3
WSR16	20210323	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:41	10.07	8.60	30.20	20.99	2.35	3.3
WSR16	20210323	Cloudy	Moderate	Mid-Flood	Bottom	15.10	10:39	9.69	8.52	31.33	20.77	2.24	3.7
WSR16	20210323	Cloudy	Moderate	Mid-Flood	Bottom	15.10	10:39	10.67	8.44	31.36	20.75	2.57	2.5
WSR16	20210325	Cloudy	Moderate	Mid-Flood	Middle	8.45	16:29	9.29	8.39	30.70	26.32	2.14	4.3
WSR16	20210325	Cloudy	Moderate	Mid-Flood	Middle	8.45	16:29	9.84	8.54	30.54	26.39	2.50	3.7
WSR16	20210325	Cloudy	Moderate	Mid-Flood	Surface	1.00	16:30	10.08	8.62	31.57	26.66	2.65	4.6
WSR16	20210325	Cloudy	Moderate	Mid-Flood	Surface	1.00	16:30	8.84	8.59	30.59	26.48	2.28	3.5
WSR16	20210325	Cloudy	Moderate	Mid-Flood	Bottom	15.90	16:28	9.32	8.61	30.91	26.53	2.35	5.7
WSR16	20210325	Cloudy	Moderate	Mid-Flood	Bottom	15.90	16:28	10.31	8.54	31.56	26.35	2.34	4.7
WSR16	20210327	Sunny	Moderate	Mid-Flood	Middle	7.65	18:04	8.21	8.27	30.27	24.33	2.38	5.1
WSR16	20210327	Sunny	Moderate	Mid-Flood	Middle	7.65	18:04	8.79	8.49	29.77	24.36	2.21	5.5
WSR16	20210327	Sunny	Moderate	Mid-Flood	Surface	1.00	18:05	8.67	8.37	30.45	24.19	2.27	6.7
WSR16	20210327	Sunny	Moderate	Mid-Flood	Surface	1.00	18:05	9.30	8.32	30.49	24.33	2.27	6.3
WSR16	20210327	Sunny	Moderate	Mid-Flood	Bottom	14.30	18:03	9.07	8.44	30.39	24.41	1.89	5.0
WSR16	20210327	Sunny	Moderate	Mid-Flood	Bottom	14.30	18:03	8.72	8.43	30.35	24.43	1.92	4.5

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WSR16	20210330	Sunny	Moderate	Mid-Flood	Middle	8.40	10:20	8.62	8.35	31.10	26.85	2.22	2.5
WSR16	20210330	Sunny	Moderate	Mid-Flood	Middle	8.40	10:20	8.57	8.31	31.09	26.69	2.40	2.5
WSR16	20210330	Sunny	Moderate	Mid-Flood	Surface	1.00	10:21	9.17	8.37	31.03	26.94	2.59	2.7
WSR16	20210330	Sunny	Moderate	Mid-Flood	Surface	1.00	10:21	8.10	8.20	31.23	26.78	2.18	2.5
WSR16	20210330	Sunny	Moderate	Mid-Flood	Bottom	15.80	10:19	8.28	8.28	31.08	26.89	1.86	2.5
WSR16	20210330	Sunny	Moderate	Mid-Flood	Bottom	15.80	10:19	8.69	8.29	31.21	27.02	1.95	2.5
WSR33	20210301	Cloudy	Moderate	Mid-Flood	Middle	3.55	9:00	10.82	8.44	27.16	20.51	2.28	3.3
WSR33	20210301	Cloudy	Moderate	Mid-Flood	Middle	3.55	9:00	10.12	8.17	27.20	20.40	2.02	3.0
WSR33	20210301	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:01	9.29	8.45	27.09	20.47	2.04	2.5
WSR33	20210301	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:01	10.89	8.42	27.35	20.32	2.62	2.5
WSR33	20210301	Cloudy	Moderate	Mid-Flood	Bottom	6.10	8:59	8.79	8.30	27.00	20.33	1.72	2.8
WSR33	20210301	Cloudy	Moderate	Mid-Flood	Bottom	6.10	8:59	9.09	8.24	26.80	20.39	2.13	2.7
WSR33	20210303	Cloudy	Moderate	Mid-Flood	Middle	3.70	8:59	8.54	8.45	31.03	19.78	2.17	3.5
WSR33	20210303	Cloudy	Moderate	Mid-Flood	Middle	3.70	8:59	9.40	8.28	31.02	19.85	2.15	3.8
WSR33	20210303	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:00	8.47	8.43	30.68	19.83	2.68	2.5
WSR33	20210303	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:00	9.65	8.44	31.62	19.89	2.31	2.5
WSR33	20210303	Cloudy	Moderate	Mid-Flood	Bottom	6.40	8:58	9.68	8.22	30.50	19.86	1.99	2.5
WSR33	20210303	Cloudy	Moderate	Mid-Flood	Bottom	6.40	8:58	8.69	8.25	31.61	19.86	2.37	2.5
WSR33	20210305	Cloudy	Moderate	Mid-Flood	Middle	3.60	9:22	8.77	8.69	28.99	20.44	2.21	4.7
WSR33	20210305	Cloudy	Moderate	Mid-Flood	Middle	3.60	9:22	9.24	8.43	28.44	20.58	2.38	4.1
WSR33	20210305	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:23	8.37	8.57	28.60	20.46	1.94	3.4
WSR33	20210305	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:23	9.88	8.66	28.68	20.38	2.14	4.4
WSR33	20210305	Cloudy	Moderate	Mid-Flood	Bottom	6.20	9:21	9.86	8.43	28.43	20.56	2.07	4.2
WSR33	20210305	Cloudy	Moderate	Mid-Flood	Bottom	6.20	9:21	8.40	8.50	29.68	20.29	2.12	3.8
WSR33	20210308	Cloudy	Moderate	Mid-Flood	Middle	3.85	13:24	9.50	8.43	29.60	22.60	2.95	3.6
WSR33	20210308	Cloudy	Moderate	Mid-Flood	Middle	3.85	13:24	8.38	8.29	29.49	22.56	2.64	3.0
WSR33	20210308	Cloudy	Moderate	Mid-Flood	Surface	1.00	13:25	8.45	8.51	29.48	22.58	3.15	3.0

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WSR33	20210308	Cloudy	Moderate	Mid-Flood	Surface	1.00	13:25	9.21	8.52	29.93	22.57	2.96	2.7
WSR33	20210308	Cloudy	Moderate	Mid-Flood	Bottom	6.70	13:23	9.29	8.50	30.16	22.48	2.11	3.4
WSR33	20210308	Cloudy	Moderate	Mid-Flood	Bottom	6.70	13:23	9.01	8.36	30.08	22.61	2.48	3.1
WSR33	20210310	Cloudy	Moderate	Mid-Flood	Middle	3.70	15:54	10.14	8.34	31.58	21.99	2.68	2.7
WSR33	20210310	Cloudy	Moderate	Mid-Flood	Middle	3.70	15:54	9.44	8.45	31.06	22.36	2.74	2.9
WSR33	20210310	Cloudy	Moderate	Mid-Flood	Surface	1.00	15:55	9.68	8.66	31.14	22.22	2.68	2.5
WSR33	20210310	Cloudy	Moderate	Mid-Flood	Surface	1.00	15:55	9.47	8.63	31.41	22.16	3.02	2.5
WSR33	20210310	Cloudy	Moderate	Mid-Flood	Bottom	6.40	15:53	10.62	8.45	30.61	22.11	2.56	2.9
WSR33	20210310	Cloudy	Moderate	Mid-Flood	Bottom	6.40	15:53	10.19	8.44	31.73	22.00	2.35	2.5
WSR33	20210312	Cloudy	Moderate	Mid-Flood	Middle	3.50	17:19	9.58	8.47	30.49	24.99	2.07	3.3
WSR33	20210312	Cloudy	Moderate	Mid-Flood	Middle	3.50	17:19	9.20	8.39	30.45	24.74	2.45	4.3
WSR33	20210312	Cloudy	Moderate	Mid-Flood	Surface	1.00	17:20	9.72	8.60	30.16	24.63	2.93	3.5
WSR33	20210312	Cloudy	Moderate	Mid-Flood	Surface	1.00	17:20	9.18	8.36	30.46	24.64	2.98	2.5
WSR33	20210312	Cloudy	Moderate	Mid-Flood	Bottom	6.00	17:18	8.80	8.60	30.20	24.68	2.50	2.6
WSR33	20210312	Cloudy	Moderate	Mid-Flood	Bottom	6.00	17:18	9.23	8.26	30.07	24.90	2.68	4.8
WSR33	20210315	Cloudy	Moderate	Mid-Flood	Middle	3.75	9:48	8.94	8.32	30.48	23.56	2.44	2.5
WSR33	20210315	Cloudy	Moderate	Mid-Flood	Middle	3.75	9:48	9.32	8.58	30.33	23.46	2.13	2.6
WSR33	20210315	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:49	9.04	8.58	30.00	23.69	2.88	3.4
WSR33	20210315	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:49	9.77	8.44	30.73	23.78	2.48	4
WSR33	20210315	Cloudy	Moderate	Mid-Flood	Bottom	6.50	9:47	9.44	8.36	30.41	23.60	2.40	3.4
WSR33	20210315	Cloudy	Moderate	Mid-Flood	Bottom	6.50	9:47	8.91	8.27	29.78	23.59	2.14	3.1
WSR33	20210317	Cloudy	Moderate	Mid-Flood	Middle	3.55	9:44	9.29	8.49	30.97	24.09	2.39	2.5
WSR33	20210317	Cloudy	Moderate	Mid-Flood	Middle	3.55	9:44	9.85	8.30	31.40	24.02	2.18	2.7
WSR33	20210317	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:45	9.27	8.44	31.41	24.08	2.23	2.8
WSR33	20210317	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:45	9.76	8.29	30.95	23.78	2.65	3.1
WSR33	20210317	Cloudy	Moderate	Mid-Flood	Bottom	6.10	9:43	8.56	8.25	31.57	23.76	2.25	3.9
WSR33	20210317	Cloudy	Moderate	Mid-Flood	Bottom	6.10	9:43	9.36	8.47	31.64	24.10	2.62	2.5

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WSR33	20210319	Cloudy	Moderate	Mid-Flood	Middle	3.60	9:44	8.55	8.32	31.63	23.55	1.82	2.5
WSR33	20210319	Cloudy	Moderate	Mid-Flood	Middle	3.60	9:44	8.95	8.46	30.67	23.40	1.97	2.7
WSR33	20210319	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:45	9.96	8.47	30.79	23.53	2.05	2.5
WSR33	20210319	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:45	9.50	8.20	31.09	23.63	2.06	2.6
WSR33	20210319	Cloudy	Moderate	Mid-Flood	Bottom	6.20	9:43	9.45	8.36	31.11	23.40	1.92	2.5
WSR33	20210319	Cloudy	Moderate	Mid-Flood	Bottom	6.20	9:43	9.47	8.42	30.70	23.50	1.89	2.7
WSR33	20210323	Cloudy	Moderate	Mid-Flood	Middle	3.60	9:38	10.71	8.43	30.68	20.71	2.59	3.8
WSR33	20210323	Cloudy	Moderate	Mid-Flood	Middle	3.60	9:38	9.35	8.55	30.39	20.85	2.86	3.0
WSR33	20210323	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:39	9.28	8.48	31.31	20.58	2.55	3.7
WSR33	20210323	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:39	8.82	8.46	30.61	20.73	2.51	4.0
WSR33	20210323	Cloudy	Moderate	Mid-Flood	Bottom	6.20	9:37	9.71	8.36	31.32	20.56	2.18	3.7
WSR33	20210323	Cloudy	Moderate	Mid-Flood	Bottom	6.20	9:37	10.21	8.46	30.59	20.56	2.33	3.3
WSR33	20210325	Cloudy	Moderate	Mid-Flood	Middle	3.55	15:24	9.54	8.70	30.98	26.64	1.94	4.7
WSR33	20210325	Cloudy	Moderate	Mid-Flood	Middle	3.55	15:24	10.57	8.66	30.98	26.50	2.13	4.6
WSR33	20210325	Cloudy	Moderate	Mid-Flood	Surface	1.00	15:25	8.98	8.64	31.55	26.34	2.16	4.5
WSR33	20210325	Cloudy	Moderate	Mid-Flood	Surface	1.00	15:25	10.01	8.61	30.60	26.70	2.17	6.1
WSR33	20210325	Cloudy	Moderate	Mid-Flood	Bottom	6.10	15:23	9.05	8.50	31.48	26.55	2.37	4.3
WSR33	20210325	Cloudy	Moderate	Mid-Flood	Bottom	6.10	15:23	10.28	8.44	31.28	26.34	2.38	4.6
WSR33	20210327	Sunny	Moderate	Mid-Flood	Middle	3.85	17:00	8.40	8.34	29.92	24.31	2.61	3.8
WSR33	20210327	Sunny	Moderate	Mid-Flood	Middle	3.85	17:00	9.17	8.38	29.78	24.66	2.23	6.9
WSR33	20210327	Sunny	Moderate	Mid-Flood	Surface	1.00	17:01	9.25	8.46	30.46	24.23	2.90	4.7
WSR33	20210327	Sunny	Moderate	Mid-Flood	Surface	1.00	17:01	8.20	8.57	30.33	24.48	2.58	4.9
WSR33	20210327	Sunny	Moderate	Mid-Flood	Bottom	6.70	16:59	8.56	8.43	29.71	24.41	1.72	4.6
WSR33	20210327	Sunny	Moderate	Mid-Flood	Bottom	6.70	16:59	8.89	8.30	30.42	24.14	1.58	3.7
WSR33	20210330	Sunny	Moderate	Mid-Flood	Middle	3.85	9:26	9.06	8.46	31.15	26.71	2.09	2.5
WSR33	20210330	Sunny	Moderate	Mid-Flood	Middle	3.85	9:26	8.85	8.35	31.23	26.62	2.33	2.5
WSR33	20210330	Sunny	Moderate	Mid-Flood	Surface	1.00	9:27	8.81	8.24	31.06	26.87	2.32	2.5

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	D0 (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR33	20210330	Sunny	Moderate	Mid-Flood	Surface	1.00	9:27	8.18	8.21	31.01	26.92	2.11	2.5
WSR33	20210330	Sunny	Moderate	Mid-Flood	Bottom	6.70	9:25	8.53	8.25	31.18	26.41	2.00	2.5
WSR33	20210330	Sunny	Moderate	Mid-Flood	Bottom	6.70	9:25	7.91	8.42	31.13	26.52	2.36	2.5
WSR36	20210301	Cloudy	Moderate	Mid-Flood	Middle	3.25	8:34	10.14	8.28	27.16	20.46	2.16	2.8
WSR36	20210301	Cloudy	Moderate	Mid-Flood	Middle	3.25	8:34	9.10	8.47	27.22	20.30	1.84	4.4
WSR36	20210301	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:34	10.74	8.18	27.43	20.37	2.21	3.5
WSR36	20210301	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:34	10.85	8.37	26.93	20.47	2.79	5.1
WSR36	20210301	Cloudy	Moderate	Mid-Flood	Bottom	5.50	8:33	9.29	8.19	26.70	20.23	1.59	2.8
WSR36	20210301	Cloudy	Moderate	Mid-Flood	Bottom	5.50	8:33	8.82	8.23	26.72	20.36	1.69	2.9
WSR36	20210303	Cloudy	Moderate	Mid-Flood	Middle	3.80	8:33	9.26	8.17	31.29	19.88	2.60	3.8
WSR36	20210303	Cloudy	Moderate	Mid-Flood	Middle	3.80	8:33	9.52	8.48	31.15	19.95	2.29	3.7
WSR36	20210303	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:33	9.81	8.31	31.75	19.64	2.55	2.5
WSR36	20210303	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:33	9.72	8.34	31.75	19.92	2.34	2.5
WSR36	20210303	Cloudy	Moderate	Mid-Flood	Bottom	6.60	8:32	9.08	8.46	31.60	19.91	1.92	2.5
WSR36	20210303	Cloudy	Moderate	Mid-Flood	Bottom	6.60	8:32	8.70	8.18	31.36	19.74	1.98	3.0
WSR36	20210305	Cloudy	Moderate	Mid-Flood	Middle	3.25	8:56	9.96	8.58	28.45	20.25	2.46	4.4
WSR36	20210305	Cloudy	Moderate	Mid-Flood	Middle	3.25	8:56	9.90	8.56	28.84	20.51	2.26	3.9
WSR36	20210305	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:56	8.92	8.58	29.68	20.35	2.72	4.0
WSR36	20210305	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:56	8.73	8.64	28.62	20.28	2.45	4.6
WSR36	20210305	Cloudy	Moderate	Mid-Flood	Bottom	5.50	8:55	9.46	8.59	29.79	20.40	2.25	3.1
WSR36	20210305	Cloudy	Moderate	Mid-Flood	Bottom	5.50	8:55	8.65	8.70	29.11	20.27	1.90	3.6
WSR36	20210308	Cloudy	Moderate	Mid-Flood	Middle	3.40	12:58	9.12	8.48	29.41	22.43	2.69	4.0
WSR36	20210308	Cloudy	Moderate	Mid-Flood	Middle	3.40	12:58	8.18	8.46	30.42	22.39	2.33	3.5
WSR36	20210308	Cloudy	Moderate	Mid-Flood	Surface	1.00	12:58	8.75	8.49	29.74	22.54	2.57	3.6
WSR36	20210308	Cloudy	Moderate	Mid-Flood	Surface	1.00	12:58	8.45	8.49	30.67	22.57	2.61	3.2
WSR36	20210308	Cloudy	Moderate	Mid-Flood	Bottom	5.80	12:57	8.45	8.57	29.85	22.66	2.72	3.5
WSR36	20210308	Cloudy	Moderate	Mid-Flood	Bottom	5.80	12:57	9.80	8.27	29.89	22.77	2.36	4.1

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR36	20210310	Cloudy	Moderate	Mid-Flood	Middle	3.45	16:11	10.69	8.64	30.84	22.26	2.57	2.7
WSR36	20210310	Cloudy	Moderate	Mid-Flood	Middle	3.45	16:11	9.54	8.32	31.64	22.05	2.65	3.1
WSR36	20210310	Cloudy	Moderate	Mid-Flood	Surface	1.00	16:11	10.35	8.65	31.46	22.19	2.49	2.8
WSR36	20210310	Cloudy	Moderate	Mid-Flood	Surface	1.00	16:11	9.26	8.66	31.53	22.27	2.81	3.5
WSR36	20210310	Cloudy	Moderate	Mid-Flood	Bottom	5.90	16:10	10.72	8.49	31.30	22.39	1.85	2.5
WSR36	20210310	Cloudy	Moderate	Mid-Flood	Bottom	5.90	16:10	9.54	8.49	31.87	22.38	2.16	2.7
WSR36	20210312	Cloudy	Moderate	Mid-Flood	Middle	3.55	17:36	9.76	8.30	30.73	24.47	2.35	3.2
WSR36	20210312	Cloudy	Moderate	Mid-Flood	Middle	3.55	17:36	9.55	8.51	30.87	24.75	2.59	2.5
WSR36	20210312	Cloudy	Moderate	Mid-Flood	Surface	1.00	17:36	9.25	8.27	30.74	24.58	2.36	2.5
WSR36	20210312	Cloudy	Moderate	Mid-Flood	Surface	1.00	17:36	8.80	8.53	30.67	24.51	2.75	2.5
WSR36	20210312	Cloudy	Moderate	Mid-Flood	Bottom	6.10	17:35	8.88	8.50	30.40	24.48	2.10	2.6
WSR36	20210312	Cloudy	Moderate	Mid-Flood	Bottom	6.10	17:35	8.85	8.63	30.80	24.83	2.33	3.2
WSR36	20210315	Cloudy	Moderate	Mid-Flood	Middle	3.60	10:05	9.18	8.53	30.17	23.96	2.23	3
WSR36	20210315	Cloudy	Moderate	Mid-Flood	Middle	3.60	10:05	9.79	8.55	30.82	23.87	2.15	3.6
WSR36	20210315	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:05	8.91	8.38	30.38	23.63	2.34	3.9
WSR36	20210315	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:05	9.65	8.30	30.02	23.78	2.05	2.5
WSR36	20210315	Cloudy	Moderate	Mid-Flood	Bottom	6.20	10:04	8.91	8.60	30.00	23.55	2.14	2.9
WSR36	20210315	Cloudy	Moderate	Mid-Flood	Bottom	6.20	10:04	9.61	8.30	30.44	23.83	2.25	2.9
WSR36	20210317	Cloudy	Moderate	Mid-Flood	Middle	3.45	10:04	9.91	8.18	31.07	23.89	2.32	3.5
WSR36	20210317	Cloudy	Moderate	Mid-Flood	Middle	3.45	10:04	9.77	8.17	31.15	24.15	2.52	2.5
WSR36	20210317	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:04	9.47	8.24	30.90	23.85	2.50	2.6
WSR36	20210317	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:04	9.59	8.24	30.93	24.00	2.89	2.6
WSR36	20210317	Cloudy	Moderate	Mid-Flood	Bottom	5.90	10:03	9.80	8.46	30.62	23.88	1.66	3.2
WSR36	20210317	Cloudy	Moderate	Mid-Flood	Bottom	5.90	10:03	9.48	8.49	31.84	23.91	1.42	2.7
WSR36	20210319	Cloudy	Moderate	Mid-Flood	Middle	3.85	10:04	9.14	8.38	31.49	23.69	2.09	2.5
WSR36	20210319	Cloudy	Moderate	Mid-Flood	Middle	3.85	10:04	9.00	8.19	31.25	23.68	2.35	2.6
WSR36	20210319	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:04	9.98	8.31	31.43	23.75	2.37	2.5

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR36	20210319	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:04	9.04	8.49	31.47	23.50	2.46	2.5
WSR36	20210319	Cloudy	Moderate	Mid-Flood	Bottom	6.70	10:03	9.08	8.22	31.36	23.67	2.12	2.7
WSR36	20210319	Cloudy	Moderate	Mid-Flood	Bottom	6.70	10:03	8.53	8.47	31.84	23.51	2.12	2.9
WSR36	20210323	Cloudy	Moderate	Mid-Flood	Middle	3.40	9:55	10.13	8.57	31.27	20.93	2.78	3.8
WSR36	20210323	Cloudy	Moderate	Mid-Flood	Middle	3.40	9:55	9.81	8.56	30.49	20.68	2.36	3.7
WSR36	20210323	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:55	10.06	8.57	31.29	20.92	2.49	3.8
WSR36	20210323	Cloudy	Moderate	Mid-Flood	Surface	1.00	9:55	9.74	8.59	30.73	20.63	2.37	3.7
WSR36	20210323	Cloudy	Moderate	Mid-Flood	Bottom	5.80	9:54	8.79	8.27	30.46	20.59	2.45	3.8
WSR36	20210323	Cloudy	Moderate	Mid-Flood	Bottom	5.80	9:54	9.35	8.58	31.23	20.74	2.17	3.5
WSR36	20210325	Cloudy	Moderate	Mid-Flood	Middle	3.60	15:44	8.93	8.66	30.56	26.40	2.07	5.1
WSR36	20210325	Cloudy	Moderate	Mid-Flood	Middle	3.60	15:44	9.30	8.55	30.51	26.33	2.46	4.8
WSR36	20210325	Cloudy	Moderate	Mid-Flood	Surface	1.00	15:44	10.01	8.55	30.36	26.32	2.76	6.5
WSR36	20210325	Cloudy	Moderate	Mid-Flood	Surface	1.00	15:44	9.78	8.58	30.56	26.67	2.48	3.6
WSR36	20210325	Cloudy	Moderate	Mid-Flood	Bottom	6.20	15:43	9.72	8.38	31.25	26.69	2.30	5.1
WSR36	20210325	Cloudy	Moderate	Mid-Flood	Bottom	6.20	15:43	9.43	8.49	31.12	26.44	2.09	6.1
WSR36	20210327	Sunny	Moderate	Mid-Flood	Middle	3.45	17:17	8.21	8.55	30.10	24.06	2.66	5.2
WSR36	20210327	Sunny	Moderate	Mid-Flood	Middle	3.45	17:17	8.11	8.38	30.03	24.35	2.66	4.6
WSR36	20210327	Sunny	Moderate	Mid-Flood	Surface	1.00	17:17	8.51	8.36	29.80	24.38	2.86	5.0
WSR36	20210327	Sunny	Moderate	Mid-Flood	Surface	1.00	17:17	8.20	8.26	30.53	24.29	2.68	4.9
WSR36	20210327	Sunny	Moderate	Mid-Flood	Bottom	5.90	17:16	8.91	8.27	29.72	24.21	1.94	3.0
WSR36	20210327	Sunny	Moderate	Mid-Flood	Bottom	5.90	17:16	8.41	8.43	29.94	24.12	2.29	2.5
WSR36	20210330	Sunny	Moderate	Mid-Flood	Middle	3.70	9:42	8.94	8.34	31.07	26.92	2.09	2.5
WSR36	20210330	Sunny	Moderate	Mid-Flood	Middle	3.70	9:42	9.18	8.32	31.24	26.94	2.11	2.7
WSR36	20210330	Sunny	Moderate	Mid-Flood	Surface	1.00	9:42	8.79	8.40	31.05	26.92	2.69	2.5
WSR36	20210330	Sunny	Moderate	Mid-Flood	Surface	1.00	9:42	9.07	8.45	31.03	26.79	2.83	2.5
WSR36	20210330	Sunny	Moderate	Mid-Flood	Bottom	6.40	9:41	8.75	8.30	31.26	26.65	1.96	2.5
WSR36	20210330	Sunny	Moderate	Mid-Flood	Bottom	6.40	9:41	9.00	8.21	31.06	26.93	1.95	2.5

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR37	20210301	Cloudy	Moderate	Mid-Flood	Middle	4.10	8:12	9.86	8.32	27.41	20.34	2.07	2.5
WSR37	20210301	Cloudy	Moderate	Mid-Flood	Middle	4.10	8:12	9.32	8.49	26.87	20.34	2.57	3.5
WSR37	20210301	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:13	10.85	8.29	26.75	20.34	2.84	3.5
WSR37	20210301	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:13	10.40	8.40	27.04	20.28	2.23	3.0
WSR37	20210301	Cloudy	Moderate	Mid-Flood	Bottom	7.20	8:11	10.07	8.25	26.85	20.25	1.54	4.2
WSR37	20210301	Cloudy	Moderate	Mid-Flood	Bottom	7.20	8:11	8.97	8.45	27.17	20.40	2.23	4.5
WSR37	20210303	Cloudy	Moderate	Mid-Flood	Middle	3.85	8:11	9.76	8.23	30.92	19.72	1.80	4.0
WSR37	20210303	Cloudy	Moderate	Mid-Flood	Middle	3.85	8:11	9.40	8.42	31.80	19.74	1.82	3.9
WSR37	20210303	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:12	8.50	8.50	31.48	19.80	2.37	2.8
WSR37	20210303	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:12	9.21	8.49	31.72	19.88	2.14	2.5
WSR37	20210303	Cloudy	Moderate	Mid-Flood	Bottom	6.70	8:10	9.50	8.43	30.69	19.68	2.39	4.8
WSR37	20210303	Cloudy	Moderate	Mid-Flood	Bottom	6.70	8:10	9.66	8.26	30.70	19.75	2.08	3.9
WSR37	20210305	Cloudy	Moderate	Mid-Flood	Middle	4.00	8:34	8.53	8.39	28.72	20.33	2.53	3.7
WSR37	20210305	Cloudy	Moderate	Mid-Flood	Middle	4.00	8:34	9.64	8.69	29.26	20.29	2.36	3.5
WSR37	20210305	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:35	9.86	8.55	29.24	20.41	2.60	4.4
WSR37	20210305	Cloudy	Moderate	Mid-Flood	Surface	1.00	8:35	9.20	8.63	28.55	20.42	2.55	4.7
WSR37	20210305	Cloudy	Moderate	Mid-Flood	Bottom	7.00	8:33	9.78	8.65	29.25	20.18	1.81	3.9
WSR37	20210305	Cloudy	Moderate	Mid-Flood	Bottom	7.00	8:33	9.84	8.59	29.67	20.20	1.78	5.1
WSR37	20210308	Cloudy	Moderate	Mid-Flood	Middle	4.10	12:36	9.40	8.34	29.34	22.50	2.69	3.9
WSR37	20210308	Cloudy	Moderate	Mid-Flood	Middle	4.10	12:36	9.80	8.55	30.43	22.46	2.51	3.8
WSR37	20210308	Cloudy	Moderate	Mid-Flood	Surface	1.00	12:37	8.70	8.29	29.90	22.35	2.94	3.6
WSR37	20210308	Cloudy	Moderate	Mid-Flood	Surface	1.00	12:37	9.13	8.59	30.02	22.36	3.02	3.9
WSR37	20210308	Cloudy	Moderate	Mid-Flood	Bottom	7.20	12:35	9.53	8.59	29.97	22.71	2.65	4.1
WSR37	20210308	Cloudy	Moderate	Mid-Flood	Bottom	7.20	12:35	9.82	8.30	30.38	22.40	2.21	4.3
WSR37	20210310	Cloudy	Moderate	Mid-Flood	Middle	4.20	16:28	9.37	8.52	31.28	22.13	2.41	2.7
WSR37	20210310	Cloudy	Moderate	Mid-Flood	Middle	4.20	16:28	9.46	8.65	30.67	22.12	2.32	2.5
WSR37	20210310	Cloudy	Moderate	Mid-Flood	Surface	1.00	16:29	10.74	8.62	30.68	21.98	2.71	2.5

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR37	20210310	Cloudy	Moderate	Mid-Flood	Surface	1.00	16:29	9.40	8.68	31.44	21.88	2.80	2.5
WSR37	20210310	Cloudy	Moderate	Mid-Flood	Bottom	7.40	16:27	10.72	8.51	31.41	22.22	2.05	2.5
WSR37	20210310	Cloudy	Moderate	Mid-Flood	Bottom	7.40	16:27	10.45	8.40	31.70	22.08	2.12	2.5
WSR37	20210312	Cloudy	Moderate	Mid-Flood	Middle	4.20	17:51	9.56	8.60	29.96	24.85	2.35	3.4
WSR37	20210312	Cloudy	Moderate	Mid-Flood	Middle	4.20	17:51	9.21	8.35	30.18	24.54	2.30	2.5
WSR37	20210312	Cloudy	Moderate	Mid-Flood	Surface	1.00	17:52	9.66	8.46	30.53	24.46	2.56	3.6
WSR37	20210312	Cloudy	Moderate	Mid-Flood	Surface	1.00	17:52	9.33	8.60	30.21	24.48	2.79	3.4
WSR37	20210312	Cloudy	Moderate	Mid-Flood	Bottom	7.40	17:50	9.35	8.25	30.52	24.54	2.32	3.1
WSR37	20210312	Cloudy	Moderate	Mid-Flood	Bottom	7.40	17:50	9.57	8.37	30.42	24.44	2.04	3.5
WSR37	20210315	Cloudy	Moderate	Mid-Flood	Middle	4.00	10:24	9.70	8.46	30.61	23.64	2.61	3.2
WSR37	20210315	Cloudy	Moderate	Mid-Flood	Middle	4.00	10:24	9.60	8.59	30.35	23.96	2.29	2.5
WSR37	20210315	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:25	9.39	8.29	29.81	23.65	2.50	2.7
WSR37	20210315	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:25	9.39	8.45	30.45	23.69	2.83	3.4
WSR37	20210315	Cloudy	Moderate	Mid-Flood	Bottom	7.00	10:23	9.15	8.47	29.92	23.73	2.17	3.1
WSR37	20210315	Cloudy	Moderate	Mid-Flood	Bottom	7.00	10:23	9.59	8.42	30.18	23.79	1.89	2.5
WSR37	20210317	Cloudy	Moderate	Mid-Flood	Middle	3.90	10:21	9.72	8.34	31.51	24.05	2.10	2.5
WSR37	20210317	Cloudy	Moderate	Mid-Flood	Middle	3.90	10:21	9.27	8.37	31.78	23.94	2.30	3.4
WSR37	20210317	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:22	9.23	8.33	30.69	23.89	2.41	3.3
WSR37	20210317	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:22	9.10	8.36	31.10	24.24	2.59	3.5
WSR37	20210317	Cloudy	Moderate	Mid-Flood	Bottom	6.80	10:20	8.89	8.23	30.59	23.89	2.16	2.7
WSR37	20210317	Cloudy	Moderate	Mid-Flood	Bottom	6.80	10:20	8.59	8.42	30.70	24.12	2.29	3.7
WSR37	20210319	Cloudy	Moderate	Mid-Flood	Middle	4.40	10:24	9.49	8.49	30.73	23.61	1.82	3.0
WSR37	20210319	Cloudy	Moderate	Mid-Flood	Middle	4.40	10:24	9.23	8.37	31.72	23.85	1.61	2.7
WSR37	20210319	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:25	8.67	8.24	31.06	23.84	2.16	2.5
WSR37	20210319	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:25	9.31	8.30	30.79	23.73	1.88	2.9
WSR37	20210319	Cloudy	Moderate	Mid-Flood	Bottom	7.80	10:23	9.79	8.19	31.85	23.86	1.65	2.7
WSR37	20210319	Cloudy	Moderate	Mid-Flood	Bottom	7.80	10:23	8.54	8.20	30.87	23.77	1.73	3.2

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR37	20210323	Cloudy	Moderate	Mid-Flood	Middle	4.40	10:15	10.60	8.31	30.26	20.87	2.87	3.2
WSR37	20210323	Cloudy	Moderate	Mid-Flood	Middle	4.40	10:15	10.17	8.47	30.26	20.65	2.91	4.1
WSR37	20210323	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:16	9.85	8.41	30.19	20.90	2.31	4.4
WSR37	20210323	Cloudy	Moderate	Mid-Flood	Surface	1.00	10:16	10.45	8.33	30.87	20.78	2.75	3.3
WSR37	20210323	Cloudy	Moderate	Mid-Flood	Bottom	7.80	10:14	10.08	8.45	31.40	20.72	2.20	4.1
WSR37	20210323	Cloudy	Moderate	Mid-Flood	Bottom	7.80	10:14	9.62	8.32	30.47	20.93	2.11	3.6
WSR37	20210325	Cloudy	Moderate	Mid-Flood	Middle	4.10	16:01	9.91	8.36	31.03	26.55	2.12	5.5
WSR37	20210325	Cloudy	Moderate	Mid-Flood	Middle	4.10	16:01	9.30	8.54	31.58	26.40	2.47	3.4
WSR37	20210325	Cloudy	Moderate	Mid-Flood	Surface	1.00	16:02	9.33	8.66	30.84	26.34	2.84	7.9
WSR37	20210325	Cloudy	Moderate	Mid-Flood	Surface	1.00	16:02	9.12	8.41	31.35	26.41	2.52	6.0
WSR37	20210325	Cloudy	Moderate	Mid-Flood	Bottom	7.20	16:00	10.24	8.53	30.73	26.44	2.07	5.1
WSR37	20210325	Cloudy	Moderate	Mid-Flood	Bottom	7.20	16:00	9.39	8.55	31.30	26.44	1.92	3.7
WSR37	20210327	Sunny	Moderate	Mid-Flood	Middle	4.25	17:37	9.10	8.28	30.36	24.42	2.18	4.3
WSR37	20210327	Sunny	Moderate	Mid-Flood	Middle	4.25	17:37	8.56	8.45	30.14	24.14	2.19	3.2
WSR37	20210327	Sunny	Moderate	Mid-Flood	Surface	1.00	17:38	9.20	8.35	30.33	24.19	2.62	4.4
WSR37	20210327	Sunny	Moderate	Mid-Flood	Surface	1.00	17:38	9.36	8.56	30.54	24.09	2.19	7.8
WSR37	20210327	Sunny	Moderate	Mid-Flood	Bottom	7.50	17:36	8.23	8.45	29.99	24.30	2.15	9.0
WSR37	20210327	Sunny	Moderate	Mid-Flood	Bottom	7.50	17:36	8.97	8.33	30.48	24.42	2.10	6.0
WSR37	20210330	Sunny	Moderate	Mid-Flood	Middle	4.00	9:58	8.24	8.44	31.22	26.77	2.54	2.5
WSR37	20210330	Sunny	Moderate	Mid-Flood	Middle	4.00	9:58	8.69	8.40	31.03	26.81	2.80	2.5
WSR37	20210330	Sunny	Moderate	Mid-Flood	Surface	1.00	9:59	9.05	8.26	31.23	26.63	2.37	2.5
WSR37	20210330	Sunny	Moderate	Mid-Flood	Surface	1.00	9:59	8.94	8.28	31.00	26.71	2.43	2.5
WSR37	20210330	Sunny	Moderate	Mid-Flood	Bottom	7.00	9:57	7.83	8.40	31.23	26.86	2.37	3.0
WSR37 Remark:	20210330	Sunny	Moderate	Mid-Flood	Bottom	7.00	9:57	9.15	8.34	31.17	26.64	2.33	2.5

Note 1: Measurements of turbidity would be rounding to 0.1 NTU for proven accuracy as per the equipment specs during utilization of data.

CE 2	20210301 20210301	Cloudy			Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
	20210301	Cloudy	Moderate	Mid-Ebb	Middle	10.35	12:06	10.00	8.24	26.74	21.31	2.30	2.5
	20210001	Cloudy	Moderate	Mid-Ebb	Middle	10.35	12:06	10.22	8.36	26.93	21.32	2.16	2.5
	20210301	Cloudy	Moderate	Mid-Ebb	Surface	1.00	12:07	9.97	8.36	26.51	21.58	2.47	2.5
CE 2	20210301	Cloudy	Moderate	Mid-Ebb	Surface	1.00	12:07	9.85	8.37	26.58	21.50	2.39	2.5
CE 2	20210301	Cloudy	Moderate	Mid-Ebb	Bottom	19.70	12:05	10.07	8.49	26.20	21.33	2.08	2.5
CE 2	20210301	Cloudy	Moderate	Mid-Ebb	Bottom	19.70	12:05	9.29	8.30	26.98	21.40	2.42	2.5
CE 2	20210303	Cloudy	Moderate	Mid-Ebb	Middle	10.55	13:29	9.04	8.36	30.84	20.19	2.28	2.5
CE 2	20210303	Cloudy	Moderate	Mid-Ebb	Middle	10.55	13:29	9.40	8.21	30.80	19.97	2.23	2.5
CE 2	20210303	Cloudy	Moderate	Mid-Ebb	Surface	1.00	13:30	10.06	8.47	30.31	19.85	2.4	2.5
CE 2	20210303	Cloudy	Moderate	Mid-Ebb	Surface	1.00	13:30	9.29	8.46	31.28	20.01	2.87	2.5
CE 2	20210303	Cloudy	Moderate	Mid-Ebb	Bottom	20.10	13:28	9.59	8.31	30.68	20.13	1.64	3.3
CE 2	20210303	Cloudy	Moderate	Mid-Ebb	Bottom	20.10	13:28	9.30	8.31	30.79	20.24	1.63	2.5
CE 2	20210305	Cloudy	Moderate	Mid-Ebb	Middle	12.00	15:16	9.08	8.54	29.76	20.35	2.92	2.8
CE 2	20210305	Cloudy	Moderate	Mid-Ebb	Middle	12.00	15:16	8.80	8.61	29.59	20.64	2.91	3.2
CE 2	20210305	Cloudy	Moderate	Mid-Ebb	Surface	1.00	15:17	9.58	8.43	29.68	20.61	2.97	3.1
CE 2	20210305	Cloudy	Moderate	Mid-Ebb	Surface	1.00	15:17	9.14	8.52	30.13	20.62	3.07	3.5
CE 2	20210305	Cloudy	Moderate	Mid-Ebb	Bottom	23.00	15:15	8.44	8.40	29.22	20.33	2.49	3.6
CE 2	20210305	Cloudy	Moderate	Mid-Ebb	Bottom	23.00	15:15	9.74	8.52	29.49	20.70	2.53	3.6
CE 2	20210308	Cloudy	Moderate	Mid-Ebb	Middle	10.30	8:01	9.53	8.61	30.31	21.30	2.67	2.5
CE 2	20210308	Cloudy	Moderate	Mid-Ebb	Middle	10.30	8:01	9.56	8.52	30.30	21.70	2.90	2.5
CE 2	20210308	Cloudy	Moderate	Mid-Ebb	Surface	1.00	8:02	8.96	8.50	30.37	21.51	2.85	2.6
CE 2	20210308	Cloudy	Moderate	Mid-Ebb	Surface	1.00	8:02	9.78	8.36	30.12	21.45	2.53	2.5
CE 2	20210308	Cloudy	Moderate	Mid-Ebb	Bottom	19.60	8:00	9.43	8.60	29.86	21.68	2.35	2.5
CE 2	20210308	Cloudy	Moderate	Mid-Ebb	Bottom	19.60	8:00	8.56	8.27	29.96	21.69	2.09	2.5
CE 2	20210310	Cloudy	Moderate	Mid-Ebb	Middle	10.45	9:23	10.70	8.48	31.50	21.64	2.32	2.8
CE 2	20210310	Cloudy	Moderate	Mid-Ebb	Middle	10.45	9:23	10.42	8.32	30.59	21.57	2.50	3.2
CE 2	20210310	Cloudy	Moderate	Mid-Ebb	Surface	1.00	9:24	9.81	8.45	30.52	21.49	2.47	3.1

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
CE	20210310	Cloudy	Moderate	Mid-Ebb	Surface	1.00	9:24	9.51	8.42	31.50	21.69	2.62	2.8
CE	20210310	Cloudy	Moderate	Mid-Ebb	Bottom	19.90	9:22	9.90	8.48	30.47	21.53	2.55	3.4
CE	20210310	Cloudy	Moderate	Mid-Ebb	Bottom	19.90	9:22	9.48	8.46	31.11	21.63	2.73	3.3
CE	20210312	Cloudy	Moderate	Mid-Ebb	Middle	10.15	10:31	9.37	8.43	30.34	24.39	2.47	3.4
CE	20210312	Cloudy	Moderate	Mid-Ebb	Middle	10.15	10:31	10.00	8.44	29.66	24.71	2.10	3.1
CE	20210312	Cloudy	Moderate	Mid-Ebb	Surface	1.00	10:32	9.68	8.61	29.61	24.32	2.35	3.2
CE	20210312	Cloudy	Moderate	Mid-Ebb	Surface	1.00	10:32	9.10	8.39	30.20	24.63	2.65	3.2
CE	20210312	Cloudy	Moderate	Mid-Ebb	Bottom	19.30	10:30	10.11	8.56	30.00	24.35	1.87	3.7
CE	20210312	Cloudy	Moderate	Mid-Ebb	Bottom	19.30	10:30	9.16	8.60	30.01	24.44	1.88	3.8
CE	20210315	Cloudy	Moderate	Mid-Ebb	Middle	10.05	12:01	9.94	8.40	31.23	24.59	2.97	4
CE	20210315	Cloudy	Moderate	Mid-Ebb	Middle	10.05	12:01	9.35	8.36	31.50	24.36	2.84	3.6
CE	20210315	Cloudy	Moderate	Mid-Ebb	Surface	1.00	12:02	10.08	8.41	31.25	24.65	2.85	2.7
CE	20210315	Cloudy	Moderate	Mid-Ebb	Surface	1.00	12:02	10.02	8.50	31.23	24.34	2.79	2.9
CE	20210315	Cloudy	Moderate	Mid-Ebb	Bottom	19.10	12:00	9.12	8.64	30.04	24.54	3.18	3.1
CE	20210315	Cloudy	Moderate	Mid-Ebb	Bottom	19.10	12:00	9.14	8.35	31.17	24.34	3.07	2.8
CE	20210317	Cloudy	Moderate	Mid-Ebb	Middle	11.60	13:09	9.59	8.32	30.81	24.90	2.1	3.2
CE	20210317	Cloudy	Moderate	Mid-Ebb	Middle	11.60	13:09	9.18	8.21	30.77	24.82	1.78	6.3
CE	20210317	Cloudy	Moderate	Mid-Ebb	Surface	1.00	13:10	9.21	8.44	30.60	25.01	2.77	3.2
CE	20210317	Cloudy	Moderate	Mid-Ebb	Surface	1.00	13:10	9.07	8.29	31.54	24.95	2.45	2.5
CE	20210317	Cloudy	Moderate	Mid-Ebb	Bottom	22.20	13:08	10.16	8.48	31.46	24.99	2.25	2.5
CE	20210317	Cloudy	Moderate	Mid-Ebb	Bottom	22.20	13:08	8.69	8.27	31.67	24.68	2.37	2.7
CE	20210319	Cloudy	Moderate	Mid-Ebb	Middle	10.15	13:58	9.18	8.31	31.19	24.50	2.08	2.7
CE	20210319	Cloudy	Moderate	Mid-Ebb	Middle	10.15	13:58	9.55	8.34	31.64	24.53	2.24	2.5
CE	20210319	Cloudy	Moderate	Mid-Ebb	Surface	1.00	13:59	9.62	8.46	31.19	24.67	2.39	2.5
CE	20210319	Cloudy	Moderate	Mid-Ebb	Surface	1.00	13:59	9.07	8.47	31.60	24.56	2.50	2.5
CE	20210319	Cloudy	Moderate	Mid-Ebb	Bottom	19.30	13:57	9.39	8.24	30.33	24.64	1.82	2.5
CE	20210319	Cloudy	Moderate	Mid-Ebb	Bottom	19.30	13:57	9.35	8.48	30.42	24.47	1.94	2.6

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	D0 (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
CE	20210323	Cloudy	Moderate	Mid-Ebb	Middle	11.10	16:01	9.45	8.51	30.79	20.75	2.62	2.6
CE	20210323	Cloudy	Moderate	Mid-Ebb	Middle	11.10	16:01	9.03	8.60	31.34	20.68	2.59	2.5
CE	20210323	Cloudy	Moderate	Mid-Ebb	Surface	1.00	16:02	10.78	8.36	30.72	20.95	3.04	2.5
CE	20210323	Cloudy	Moderate	Mid-Ebb	Surface	1.00	16:02	9.09	8.38	30.69	20.78	3.23	2.7
CE	20210323	Cloudy	Moderate	Mid-Ebb	Bottom	21.20	16:00	10.64	8.45	31.17	20.57	2.58	2.5
CE	20210323	Cloudy	Moderate	Mid-Ebb	Bottom	21.20	16:00	10.58	8.63	30.53	20.83	2.65	2.8
CE	20210325	Cloudy	Moderate	Mid-Ebb	Middle	10.85	8:46	9.75	8.59	30.77	26.60	2.19	4.5
CE	20210325	Cloudy	Moderate	Mid-Ebb	Middle	10.85	8:46	8.95	8.34	31.60	26.42	2.54	4.7
CE	20210325	Cloudy	Moderate	Mid-Ebb	Surface	1.00	8:47	9.95	8.47	30.73	26.64	2.57	2.8
CE	20210325	Cloudy	Moderate	Mid-Ebb	Surface	1.00	8:47	9.78	8.53	30.48	26.33	2.42	3.5
CE	20210325	Cloudy	Moderate	Mid-Ebb	Bottom	20.70	8:45	10.32	8.60	30.71	26.44	2.13	9.0
CE	20210325	Cloudy	Moderate	Mid-Ebb	Bottom	20.70	8:45	9.13	8.29	31.01	26.58	2.02	3.7
CE	20210327	Sunny	Moderate	Mid-Ebb	Middle	11.40	9:55	8.13	8.24	30.08	24.56	2.66	3.3
CE	20210327	Sunny	Moderate	Mid-Ebb	Middle	11.40	9:55	8.49	8.27	30.22	24.61	2.42	3.1
CE	20210327	Sunny	Moderate	Mid-Ebb	Surface	1.00	9:56	8.58	8.47	29.86	24.39	2.32	3.6
CE	20210327	Sunny	Moderate	Mid-Ebb	Surface	1.00	9:56	8.55	8.45	30.72	24.50	2.47	3.0
CE	20210327	Sunny	Moderate	Mid-Ebb	Bottom	21.80	9:54	8.95	8.28	30.53	24.52	2.19	3.2
CE	20210327	Sunny	Moderate	Mid-Ebb	Bottom	21.80	9:54	8.66	8.43	30.10	24.48	2.42	4.8
CE	20210330	Sunny	Moderate	Mid-Ebb	Middle	11.35	12:04	7.56	8.38	31.29	27.24	2.03	4.0
CE	20210330	Sunny	Moderate	Mid-Ebb	Middle	11.35	12:04	8.32	8.28	31.72	27.42	2.31	3.6
CE	20210330	Sunny	Moderate	Mid-Ebb	Surface	1.00	12:05	8.91	8.28	31.48	27.40	2.44	3.2
CE	20210330	Sunny	Moderate	Mid-Ebb	Surface	1.00	12:05	9.00	8.29	31.28	27.49	2.71	2.5
CE	20210330	Sunny	Moderate	Mid-Ebb	Bottom	21.70	12:03	7.79	8.31	31.45	27.43	2.13	3.1
CE	20210330	Sunny	Moderate	Mid-Ebb	Bottom	21.70	12:03	7.89	8.44	31.60	27.28	2.01	2.9
CF	20210301	Cloudy	Moderate	Mid-Ebb	Middle	10.30	14:26	5 10.24	8.35	5 26.20	) 21.91	1.8	3 2.5
CF	20210301	Cloudy	Moderate	Mid-Ebb	Middle	10.30	14:26	5 10.18	8.23	3 26.98	8 22.02	2.0	5 2.5
CF	20210301	Cloudy	Moderate	Mid-Ebb	Surface	1.00 Page 3		10.26	8.49	9 26.49	22.01	2.24	4 2.5

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
CF	20210301	Cloudy	Moderate	Mid-Ebb	Surface	1.00	14:27	9.40	8.30	26.66	22.09	2.57	2.5
CF	20210301	Cloudy	Moderate	Mid-Ebb	Bottom	19.60	14:25	9.84	8.29	26.53	21.94	2.25	2.5
CF	20210301	Cloudy	Moderate	Mid-Ebb	Bottom	19.60	14:25	9.85	8.45	26.81	21.98	2.24	2.5
CF	20210303	Cloudy	Moderate	Mid-Ebb	Middle	10.45	15:49	9.40	8.48	30.59	19.91	2.34	3.6
CF	20210303	Cloudy	Moderate	Mid-Ebb	Middle	10.45	15:49	9.81	8.39	31.44	19.96	2.01	2.6
CF	20210303	Cloudy	Moderate	Mid-Ebb	Surface	1.00	15:50	8.58	8.49	31.43	19.97	2.53	2.6
CF	20210303	Cloudy	Moderate	Mid-Ebb	Surface	1.00	15:50	9.39	8.50	30.93	19.92	2.12	2.5
CF	20210303	Cloudy	Moderate	Mid-Ebb	Bottom	19.90	15:48	10.08	8.22	31.43	20.03	1.84	2.8
CF	20210303	Cloudy	Moderate	Mid-Ebb	Bottom	19.90	15:48	8.77	8.42	30.80	20.08	1.83	2.5
CF	20210305	Cloudy	Moderate	Mid-Ebb	Middle	10.40	17:36	8.36	8.37	29.14	20.34	3.10	3.7
CF	20210305	Cloudy	Moderate	Mid-Ebb	Middle	10.40	17:36	9.16	8.53	28.79	20.27	2.83	4.3
CF	20210305	Cloudy	Moderate	Mid-Ebb	Surface	1.00	17:37	9.37	8.38	29.68	20.56	2.93	4.1
CF	20210305	Cloudy	Moderate	Mid-Ebb	Surface	1.00	17:37	9.59	8.43	29.23	20.49	2.84	4.5
CF	20210305	Cloudy	Moderate	Mid-Ebb	Bottom	19.80	17:35	8.59	8.37	29.19	20.31	2.87	4.1
CF	20210305	Cloudy	Moderate	Mid-Ebb	Bottom	19.80	17:35	9.13	8.38	29.97	20.26	2.89	4.5
CF	20210308	Cloudy	Moderate	Mid-Ebb	Middle	10.05	10:21	8.41	8.59	29.87	21.76	2.18	2.5
CF	20210308	Cloudy	Moderate	Mid-Ebb	Middle	10.05	10:21	9.25	8.53	30.28	21.74	2.58	2.8
CF	20210308	Cloudy	Moderate	Mid-Ebb	Surface	1.00	10:22	9.71	8.28	29.79	21.94	2.91	2.5
CF	20210308	Cloudy	Moderate	Mid-Ebb	Surface	1.00	10:22	9.16	8.28	30.17	21.75	2.46	2.5
CF	20210308	Cloudy	Moderate	Mid-Ebb	Bottom	19.10	10:20	9.59	8.38	29.68	21.63	2.08	2.8
CF	20210308	Cloudy	Moderate	Mid-Ebb	Bottom	19.10	10:20	8.80	8.34	30.10	21.85	2.45	2.5
CF	20210310	Cloudy	Moderate	Mid-Ebb	Middle	10.50	12:22	9.88	8.35	30.86	22.39	2.26	3.2
CF	20210310	Cloudy	Moderate	Mid-Ebb	Middle	10.50	12:22	10.49	8.44	30.99	22.27	2.07	2.9
CF	20210310	Cloudy	Moderate	Mid-Ebb	Surface	1.00	12:23	9.50	8.22	30.90	22.08	2.70	3.5
CF	20210310	Cloudy	Moderate	Mid-Ebb	Surface	1.00	12:23	10.89	8.31	30.92	22.20	2.91	3.3
CF	20210310	Cloudy	Moderate	Mid-Ebb	Bottom	20.00	12:21	9.98	8.44	31.34	22.28	2.63	3.6
CF	20210310	Cloudy	Moderate	Mid-Ebb	Bottom	20.00	12:21	10.28	8.49	31.18	22.38	2.56	3.8
						Page 4 c	of 29						

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	D0 (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
CF	20210312	Cloudy	Moderate	Mid-Ebb	Middle	10.25	13:36	10.10	8.56	29.95	25.26	2.83	3.5
CF	20210312	Cloudy	Moderate	Mid-Ebb	Middle	10.25	13:36	10.11	8.30	30.36	25.14	2.98	3.4
CF	20210312	Cloudy	Moderate	Mid-Ebb	Surface	1.00	13:37	9.37	8.55	30.77	25.20	3.04	3.5
CF	20210312	Cloudy	Moderate	Mid-Ebb	Surface	1.00	13:37	10.01	8.23	30.64	25.00	2.82	3.3
CF	20210312	Cloudy	Moderate	Mid-Ebb	Bottom	19.50	13:35	9.56	8.54	30.00	25.15	2.30	3.4
CF	20210312	Cloudy	Moderate	Mid-Ebb	Bottom	19.50	13:35	9.70	8.39	29.60	25.08	2.09	4.5
CF	20210315	Cloudy	Moderate	Mid-Ebb	Middle	9.70	15:10	9.17	8.46	30.79	24.58	3.23	2.5
CF	20210315	Cloudy	Moderate	Mid-Ebb	Middle	9.70	15:10	9.21	8.46	30.38	24.71	3.19	2.6
CF	20210315	Cloudy	Moderate	Mid-Ebb	Surface	1.00	15:11	9.58	8.35	31.13	24.39	2.79	2.7
CF	20210315	Cloudy	Moderate	Mid-Ebb	Surface	1.00	15:11	8.73	8.47	31.31	24.42	2.96	2.9
CF	20210315	Cloudy	Moderate	Mid-Ebb	Bottom	18.40	15:09	9.11	8.37	31.21	24.40	3.09	2.8
CF	20210315	Cloudy	Moderate	Mid-Ebb	Bottom	18.40	15:09	9.13	8.35	31.62	24.61	3.22	3.6
CF	20210317	Cloudy	Moderate	Mid-Ebb	Middle	10.55	16:14	9.94	8.43	30.29	25.02	1.82	3.0
CF	20210317	Cloudy	Moderate	Mid-Ebb	Middle	10.55	16:14	9.02	8.42	31.47	24.71	2.02	2.7
CF	20210317	Cloudy	Moderate	Mid-Ebb	Surface	1.00	16:15	9.08	8.36	30.28	24.92	2.29	2.6
CF	20210317	Cloudy	Moderate	Mid-Ebb	Surface	1.00	16:15	9.77	8.26	31.47	24.90	2.59	3.4
CF	20210317	Cloudy	Moderate	Mid-Ebb	Bottom	20.10	16:13	9.96	8.3	31.24	24.90	2.33	3.3
CF	20210317	Cloudy	Moderate	Mid-Ebb	Bottom	20.10	16:13	9.41	8.29	31.62	24.74	2.69	2.6
CF	20210319	Cloudy	Moderate	Mid-Ebb	Middle	10.30	17:07	10.16	8.50	31.49	24.27	2.35	2.5
CF	20210319	Cloudy	Moderate	Mid-Ebb	Middle	10.30	17:07	10.14	8.26	30.89	24.34	2.06	2.6
CF	20210319	Cloudy	Moderate	Mid-Ebb	Surface	1.00	17:08	8.99	8.32	31.08	24.34	2.30	2.5
CF	20210319	Cloudy	Moderate	Mid-Ebb	Surface	1.00	17:08	8.85	8.22	31.34	24.19	2.19	2.5
CF	20210319	Cloudy	Moderate	Mid-Ebb	Bottom	19.60	17:06	8.75	8.22	30.74	24.12	2.19	4.7
CF	20210319	Cloudy	Moderate	Mid-Ebb	Bottom	19.60	17:06	9.71	8.51	31.68	24.29	2.11	2.5
CF	20210323	Cloudy	Moderate	Mid-Ebb	Middle	10.60	19:01	9.72	8.36	31.23	20.31	2.86	2.5
CF	20210323	Cloudy	Moderate	Mid-Ebb	Middle	10.60	19:01	9.42	8.36	31.42	20.38	2.83	2.5
CF	20210323	Cloudy	Moderate	Mid-Ebb	Surface	1.00 Page 5 d	19:02 of 29	10.91	8.46	31.16	20.29	2.67	2.5

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
CF	20210323	Cloudy	Moderate	Mid-Ebb	Surface	1.00	19:02	11.01	8.41	31.16	20.45	2.86	4.1
CF	20210323	Cloudy	Moderate	Mid-Ebb	Bottom	20.20	19:00	11.07	8.38	30.59	20.32	2.56	4.3
CF	20210323	Cloudy	Moderate	Mid-Ebb	Bottom	20.20	19:00	9.50	8.63	31.38	20.40	2.67	2.8
CF	20210325	Cloudy	Moderate	Mid-Ebb	Middle	10.45	12:05	9.25	8.46	31.60	26.50	2.31	3.7
CF	20210325	Cloudy	Moderate	Mid-Ebb	Middle	10.45	12:05	9.46	8.62	30.59	26.59	1.97	3.5
CF	20210325	Cloudy	Moderate	Mid-Ebb	Surface	1.00	12:06	9.79	8.56	30.84	26.61	2.81	4.3
CF	20210325	Cloudy	Moderate	Mid-Ebb	Surface	1.00	12:06	10.21	8.29	30.61	26.52	2.38	3.8
CF	20210325	Cloudy	Moderate	Mid-Ebb	Bottom	19.90	12:04	9.85	8.38	31.62	26.39	1.97	3.3
CF	20210325	Cloudy	Moderate	Mid-Ebb	Bottom	19.90	12:04	9.30	8.45	31.42	26.40	2.02	3.6
CF	20210327	Sunny	Moderate	Mid-Ebb	Middle	10.55	13:05	8.87	8.38	30.42	24.94	2.50	2.7
CF	20210327	Sunny	Moderate	Mid-Ebb	Middle	10.55	13:05	8.34	8.39	29.28	24.72	2.66	2.5
CF	20210327	Sunny	Moderate	Mid-Ebb	Surface	1.00	13:06	8.60	8.43	30.87	24.75	2.58	2.5
CF	20210327	Sunny	Moderate	Mid-Ebb	Surface	1.00	13:06	8.66	8.28	30.26	24.85	2.32	2.9
CF	20210327	Sunny	Moderate	Mid-Ebb	Bottom	20.10	13:04	8.59	8.36	30.89	24.99	1.97	3.0
CF	20210327	Sunny	Moderate	Mid-Ebb	Bottom	20.10	13:04	8.35	8.51	30.17	24.88	2.17	3.2
CF	20210330	Sunny	Moderate	Mid-Ebb	Middle	10.55	15:03	8.02	8.20	31.84	27.66	2.20	2.5
CF	20210330	Sunny	Moderate	Mid-Ebb	Middle	10.55	15:03	7.89	8.42	31.36	28.08	2.56	3.2
CF	20210330	Sunny	Moderate	Mid-Ebb	Surface	1.00	15:04	7.60	8.33	31.18	27.71	2.69	2.8
CF	20210330	Sunny	Moderate	Mid-Ebb	Surface	1.00	15:04	8.91	8.47	31.97	28.01	2.40	2.5
CF	20210330	Sunny	Moderate	Mid-Ebb	Bottom	20.10	15:02	7.93	8.44	31.77	27.84	2.30	2.5
CF	20210330	Sunny	Moderate	Mid-Ebb	Bottom	20.10	15:02	7.65	8.29	31.74	27.98	2.30	2.5
WSR01	20210301	Cloudy	Moderate	Mid-Ebb	Middle	4.60	13:36	9.80	8.41	26.57	21.91	2.34	2.5
WSR01	20210301	Cloudy	Moderate	Mid-Ebb	Middle	4.60	13:36	9.45	8.38	26.67	21.84	2.50	2.5
WSR01	20210301	Cloudy	Moderate	Mid-Ebb	Surface	1.00	13:37	10.98	8.24	26.64	21.95	2.20	2.5
WSR01	20210301	Cloudy	Moderate	Mid-Ebb	Surface	1.00	13:37	8.97	8.22	26.72	21.83	2.37	2.5
WSR01	20210301	Cloudy	Moderate	Mid-Ebb	Bottom	8.20	13:35	10.61	8.40	26.80	21.93	1.75	2.5
WSR01	20210301	Cloudy	Moderate	Mid-Ebb	Bottom	8.20	13:35	9.50	8.46	26.29	21.82	1.94	2.5
						Page 6 d	of 29						

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR01	20210303	Cloudy	Moderate	Mid-Ebb	Middle	4.75	14:59	9.80	8.50	30.70	20.41	2.38	2.5
WSR01	20210303	Cloudy	Moderate	Mid-Ebb	Middle	4.75	14:59	9.44	8.39	31.15	20.12	2.13	2.5
WSR01	20210303	Cloudy	Moderate	Mid-Ebb	Surface	1.00	15:00	9.41	8.24	30.91	20.25	2.03	3.6
WSR01	20210303	Cloudy	Moderate	Mid-Ebb	Surface	1.00	15:00	9.46	8.30	31.09	20.11	2.38	3.8
WSR01	20210303	Cloudy	Moderate	Mid-Ebb	Bottom	8.50	14:58	9.26	8.46	30.56	20.40	2.14	2.8
WSR01	20210303	Cloudy	Moderate	Mid-Ebb	Bottom	8.50	14:58	9.56	8.28	30.37	20.31	1.82	3.4
WSR01	20210305	Cloudy	Moderate	Mid-Ebb	Middle	4.35	16:46	9.71	8.39	30.02	20.51	1.88	4.3
WSR01	20210305	Cloudy	Moderate	Mid-Ebb	Middle	4.35	16:46	8.57	8.47	29.18	20.30	2.13	4.3
WSR01	20210305	Cloudy	Moderate	Mid-Ebb	Surface	1.00	16:47	8.96	8.49	29.16	20.48	2.11	4.4
WSR01	20210305	Cloudy	Moderate	Mid-Ebb	Surface	1.00	16:47	9.15	8.38	29.94	20.39	2.50	4.0
WSR01	20210305	Cloudy	Moderate	Mid-Ebb	Bottom	7.70	16:45	8.91	8.46	29.02	20.33	1.51	4.9
WSR01	20210305	Cloudy	Moderate	Mid-Ebb	Bottom	7.70	16:45	9.57	8.53	29.29	20.26	1.51	4.9
WSR01	20210308	Cloudy	Moderate	Mid-Ebb	Middle	4.70	9:31	8.86	8.44	29.98	21.82	2.61	2.5
WSR01	20210308	Cloudy	Moderate	Mid-Ebb	Middle	4.70	9:31	9.45	8.52	30.32	21.67	2.85	2.5
WSR01	20210308	Cloudy	Moderate	Mid-Ebb	Surface	1.00	9:32	9.72	8.26	30.17	21.56	2.93	2.5
WSR01	20210308	Cloudy	Moderate	Mid-Ebb	Surface	1.00	9:32	8.49	8.53	29.59	21.66	2.99	2.5
WSR01	20210308	Cloudy	Moderate	Mid-Ebb	Bottom	8.40	9:30	8.65	8.44	30.33	21.77	2.57	2.9
WSR01	20210308	Cloudy	Moderate	Mid-Ebb	Bottom	8.40	9:30	9.74	8.44	29.60	21.65	2.53	2.5
WSR01	20210310	Cloudy	Moderate	Mid-Ebb	Middle	4.40	11:56	10.40	8.27	31.42	22.05	2.62	3.4
WSR01	20210310	Cloudy	Moderate	Mid-Ebb	Middle	4.40	11:56	10.53	8.26	30.19	22.25	2.69	3.0
WSR01	20210310	Cloudy	Moderate	Mid-Ebb	Surface	1.00	11:57	9.42	8.36	30.73	22.18	2.69	2.5
WSR01	20210310	Cloudy	Moderate	Mid-Ebb	Surface	1.00	11:57	9.42	8.35	30.97	22.31	3.08	2.6
WSR01	20210310	Cloudy	Moderate	Mid-Ebb	Bottom	7.80	11:55	9.42	8.37	30.79	22.33	2.35	2.7
WSR01	20210310	Cloudy	Moderate	Mid-Ebb	Bottom	7.80	11:55	9.66	8.37	30.23	22.10	2.79	2.9
WSR01	20210312	Cloudy	Moderate	Mid-Ebb	Middle	4.20	13:10	9.06	8.39	29.83	25.00	2.30	3.4
WSR01	20210312	Cloudy	Moderate	Mid-Ebb	Middle	4.20	13:10	9.95	8.48	30.88	24.85	2.52	3.5
WSR01	20210312	Cloudy	Moderate	Mid-Ebb	Surface	1.00	13:11	9.17	8.33	29.73	24.93	2.83	3.5

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR01	20210312	Cloudy	Moderate	Mid-Ebb	Surface	1.00	13:11	9.36	8.41	30.32	25.12	2.72	3.9
WSR01	20210312	Cloudy	Moderate	Mid-Ebb	Bottom	7.40	13:09	9.97	8.61	29.63	24.74	2.42	4.4
WSR01	20210312	Cloudy	Moderate	Mid-Ebb	Bottom	7.40	13:09	9.40	8.40	29.89	24.98	2.59	3.6
WSR01	20210315	Cloudy	Moderate	Mid-Ebb	Middle	4.25	14:44	10.04	8.38	31.21	24.55	1.82	2.8
WSR01	20210315	Cloudy	Moderate	Mid-Ebb	Middle	4.25	14:44	10.09	8.29	31.47	24.53	2.09	3.6
WSR01	20210315	Cloudy	Moderate	Mid-Ebb	Surface	1.00	14:45	9.32	8.44	30.53	24.67	2.61	3.1
WSR01	20210315	Cloudy	Moderate	Mid-Ebb	Surface	1.00	14:45	9.69	8.38	30.65	24.72	2.46	2.7
WSR01	20210315	Cloudy	Moderate	Mid-Ebb	Bottom	7.50	14:43	9.79	8.42	31.09	24.73	2.00	2.7
WSR01	20210315	Cloudy	Moderate	Mid-Ebb	Bottom	7.50	14:43	10.06	8.50	30.86	24.61	1.69	3.5
WSR01	20210317	Cloudy	Moderate	Mid-Ebb	Middle	4.15	15:44	9.39	8.27	31.59	24.74	2.33	6.8
WSR01	20210317	Cloudy	Moderate	Mid-Ebb	Middle	4.15	15:44	9.84	8.43	31.65	24.63	2.47	2.5
WSR01	20210317	Cloudy	Moderate	Mid-Ebb	Surface	1.00	15:45	8.87	8.42	30.93	24.79	2.57	3.0
WSR01	20210317	Cloudy	Moderate	Mid-Ebb	Surface	1.00	15:45	8.58	8.35	30.80	24.65	2.33	3.7
WSR01	20210317	Cloudy	Moderate	Mid-Ebb	Bottom	7.30	15:43	8.75	8.3	30.52	24.88	2.16	4.0
WSR01	20210317	Cloudy	Moderate	Mid-Ebb	Bottom	7.30	15:43	9	8.37	30.91	25.01	2.02	3.1
WSR01	20210319	Cloudy	Moderate	Mid-Ebb	Middle	4.15	16:41	8.58	8.28	30.64	24.25	1.90	2.5
WSR01	20210319	Cloudy	Moderate	Mid-Ebb	Middle	4.15	16:41	8.66	8.30	31.52	24.33	2.02	2.6
WSR01	20210319	Cloudy	Moderate	Mid-Ebb	Surface	1.00	16:42	9.23	8.36	31.10	24.38	1.94	2.5
WSR01	20210319	Cloudy	Moderate	Mid-Ebb	Surface	1.00	16:42	8.93	8.37	31.46	24.15	2.14	2.5
WSR01	20210319	Cloudy	Moderate	Mid-Ebb	Bottom	7.30	16:40	9.79	8.48	30.70	24.33	1.89	2.5
WSR01	20210319	Cloudy	Moderate	Mid-Ebb	Bottom	7.30	16:40	9.76	8.25	30.45	24.33	1.79	2.5
WSR01	20210323	Cloudy	Moderate	Mid-Ebb	Middle	4.70	18:31	10.99	8.50	30.96	20.24	2.45	2.7
WSR01	20210323	Cloudy	Moderate	Mid-Ebb	Middle	4.70	18:31	10.12	8.57	30.93	20.44	2.77	2.9
WSR01	20210323	Cloudy	Moderate	Mid-Ebb	Surface	1.00	18:32	9.52	8.63	30.96	20.43	2.79	2.5
WSR01	20210323	Cloudy	Moderate	Mid-Ebb	Surface	1.00	18:32	9.15	8.45	31.12	20.27	2.70	2.7
WSR01	20210323	Cloudy	Moderate	Mid-Ebb	Bottom	8.40	18:30	10.37	8.45	30.78	20.27	2.52	2.5
WSR01	20210323	Cloudy	Moderate	Mid-Ebb	Bottom	8.40	18:30	9.42	8.57	30.71	20.30	2.28	2.7

WSR01 WSR01 WSR01 WSR01	20210325 20210325 20210325 20210325 20210325 20210325	Cloudy Cloudy		Mid-Ebb Mid-Ebb	Middle	4.75						note 1	
WSR01	20210325 20210325 20210325	Cloudy		Mid-Ebb			11:39	9.91	8.32	30.59	26.43	1.85	3.7
	20210325 20210325	•	Moderate		Middle	4.75	11:39	10.09	8.43	30.53	26.39	2.05	4.4
WSR01	20210325	Cloudy		Mid-Ebb	Surface	1.00	11:40	9.94	8.33	31.45	26.38	2.38	3.5
			Moderate	Mid-Ebb	Surface	1.00	11:40	9.12	8.51	30.89	26.53	2.62	3.2
WSR01	20210225	Cloudy	Moderate	Mid-Ebb	Bottom	8.50	11:38	9.19	8.58	31.70	26.62	1.94	3.4
WSR01	20210325	Cloudy	Moderate	Mid-Ebb	Bottom	8.50	11:38	9.98	8.34	30.62	26.43	2.27	3.6
WSR01	20210327	Sunny	Moderate	Mid-Ebb	Middle	4.55	12:36	8.80	8.47	29.99	24.90	2.42	3.1
WSR01	20210327	Sunny	Moderate	Mid-Ebb	Middle	4.55	12:36	8.83	8.38	29.71	24.91	2.16	2.9
WSR01	20210327	Sunny	Moderate	Mid-Ebb	Surface	1.00	12:37	8.21	8.24	29.74	25.09	2.59	3.7
WSR01	20210327	Sunny	Moderate	Mid-Ebb	Surface	1.00	12:37	8.33	8.36	29.35	25.00	2.88	3.4
WSR01	20210327	Sunny	Moderate	Mid-Ebb	Bottom	8.10	12:35	9.23	8.47	29.37	24.79	1.59	4.0
WSR01	20210327	Sunny	Moderate	Mid-Ebb	Bottom	8.10	12:35	9.28	8.50	29.93	25.02	1.54	3.7
WSR01	20210330	Sunny	Moderate	Mid-Ebb	Middle	4.25	14:37	7.50	8.17	31.21	27.76	1.81	4.3
WSR01	20210330	Sunny	Moderate	Mid-Ebb	Middle	4.25	14:37	8.12	8.35	31.88	27.78	1.95	2.9
WSR01	20210330	Sunny	Moderate	Mid-Ebb	Surface	1.00	14:38	7.96	8.38	31.53	27.76	2.71	2.9
WSR01	20210330	Sunny	Moderate	Mid-Ebb	Surface	1.00	14:38	8.25	8.17	31.24	27.78	2.80	3.8
WSR01	20210330	Sunny	Moderate	Mid-Ebb	Bottom	7.50	14:36	8.77	8.37	31.16	27.86	2.01	3.3
WSR01	20210330	Sunny	Moderate	Mid-Ebb	Bottom	7.50	14:36	7.60	8.47	31.56	27.96	1.86	2.9
WSR02 20	0210301	Cloudy	Moderate	Mid-Ebb	Middle	4.85	14:02	9.94	8.46	26.24	21.96	2.64	2.5
WSR02 20	0210301	Cloudy	Moderate	Mid-Ebb	Middle	4.85	14:02	9.88	8.32	26.39	22.08	2.06	2.5
WSR02 20	0210301	Cloudy	Moderate	Mid-Ebb	Surface	1.00	14:03	10.84	8.44	26.34	22.12	2.68	2.5
WSR02 20	0210301	Cloudy	Moderate	Mid-Ebb	Surface	1.00	14:03	10.28	8.41	26.33	21.84	2.62	2.5
WSR02 20	0210301	Cloudy	Moderate	Mid-Ebb	Bottom	8.70	14:01	10.89	8.48	26.96	22.16	2.31	2.5
WSR02 20	0210301	Cloudy	Moderate	Mid-Ebb	Bottom	8.70	14:01	10.49	8.50	26.20	21.98	2.09	2.5
WSR02 20	0210303	Cloudy	Moderate	Mid-Ebb	Middle	4.85	15:29	9.01	8.46	30.56	20.18	2.59	2.5
WSR02 20	0210303	Cloudy	Moderate	Mid-Ebb	Middle	4.85	15:29	9.23	8.30	30.44	19.99	2.45	4.5
WSR02 20	0210303	Cloudy	Moderate	Mid-Ebb	Surface	1.00	15:30	8.88	8.22	31.08	19.92	2.51	4.6

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR02	20210303	Cloudy	Moderate	Mid-Ebb	Surface	1.00	15:30	9.06	8.24	30.77	20.09	2.61	3.2
WSR02	20210303	Cloudy	Moderate	Mid-Ebb	Bottom	8.70	15:28	8.67	8.35	30.78	20.04	2.27	3.6
WSR02	20210303	Cloudy	Moderate	Mid-Ebb	Bottom	8.70	15:28	9.36	8.47	30.56	20.10	2.42	3.7
WSR02	20210305	Cloudy	Moderate	Mid-Ebb	Middle	4.70	17:13	8.63	8.62	29.25	20.32	2.22	4.3
WSR02	20210305	Cloudy	Moderate	Mid-Ebb	Middle	4.70	17:13	9.37	8.56	30.12	20.36	2.40	5.4
WSR02	20210305	Cloudy	Moderate	Mid-Ebb	Surface	1.00	17:14	9.74	8.57	29.99	20.28	1.99	2.5
WSR02	20210305	Cloudy	Moderate	Mid-Ebb	Surface	1.00	17:14	8.71	8.61	30.07	20.23	2.38	3.1
WSR02	20210305	Cloudy	Moderate	Mid-Ebb	Bottom	8.40	17:12	9.58	8.50	29.12	20.30	1.77	2.6
WSR02	20210305	Cloudy	Moderate	Mid-Ebb	Bottom	8.40	17:12	9.57	8.41	28.91	20.29	1.51	3.3
WSR02	20210308	Cloudy	Moderate	Mid-Ebb	Middle	4.85	10:02	8.74	8.27	30.18	21.75	2.79	2.6
WSR02	20210308	Cloudy	Moderate	Mid-Ebb	Middle	4.85	10:02	9.13	8.61	30.07	21.56	2.57	2.5
WSR02	20210308	Cloudy	Moderate	Mid-Ebb	Surface	1.00	10:03	9.75	8.61	29.83	21.79	3.09	2.7
WSR02	20210308	Cloudy	Moderate	Mid-Ebb	Surface	1.00	10:03	8.08	8.38	29.72	21.78	2.69	2.6
WSR02	20210308	Cloudy	Moderate	Mid-Ebb	Bottom	8.70	10:01	9.41	8.52	30.53	21.71	2.61	2.5
WSR02	20210308	Cloudy	Moderate	Mid-Ebb	Bottom	8.70	10:01	9.20	8.52	29.63	21.77	2.26	2.5
WSR02	20210310	Cloudy	Moderate	Mid-Ebb	Middle	4.50	11:35	10.80	8.21	30.86	22.26	2.78	3.6
WSR02	20210310	Cloudy	Moderate	Mid-Ebb	Middle	4.50	11:35	10.46	8.49	31.50	21.87	2.65	3.1
WSR02	20210310	Cloudy	Moderate	Mid-Ebb	Surface	1.00	11:36	9.50	8.50	30.41	22.20	2.84	2.8
WSR02	20210310	Cloudy	Moderate	Mid-Ebb	Surface	1.00	11:36	10.88	8.50	31.23	22.24	2.58	3.8
WSR02	20210310	Cloudy	Moderate	Mid-Ebb	Bottom	8.00	11:34	10.43	8.43	31.15	22.22	1.99	2.5
WSR02	20210310	Cloudy	Moderate	Mid-Ebb	Bottom	8.00	11:34	10.28	8.50	31.17	21.90	2.34	3.8
WSR02	20210312	Cloudy	Moderate	Mid-Ebb	Middle	4.95	12:48	9.68	8.55	30.04	25.01	2.10	4.1
WSR02	20210312	Cloudy	Moderate	Mid-Ebb	Middle	4.95	12:48	9.35	8.56	29.81	24.80	2.26	3.0
WSR02	20210312	Cloudy	Moderate	Mid-Ebb	Surface	1.00	12:49	9.58	8.41	30.21	25.05	2.80	3.9
WSR02	20210312	Cloudy	Moderate	Mid-Ebb	Surface	1.00	12:49	9.64	8.50	30.07	24.83	2.80	3.8
WSR02	20210312	Cloudy	Moderate	Mid-Ebb	Bottom	8.90	12:47	10.02	8.61	30.59	24.96	2.15	3.7
WSR02	20210312	Cloudy	Moderate	Mid-Ebb	Bottom	8.90 Page 10	12:47	9.42	8.28	30.81	24.94	1.96	3.9

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR02	20210315	Cloudy	Moderate	Mid-Ebb	Middle	4.80	14:22	10.15	8.49	31.07	24.61	1.83	2.5
WSR02	20210315	Cloudy	Moderate	Mid-Ebb	Middle	4.80	14:22	9.35	8.42	31.27	24.54	2.12	3.0
WSR02	20210315	Cloudy	Moderate	Mid-Ebb	Surface	1.00	14:23	10.18	8.22	31.25	24.52	2.75	2.5
WSR02	20210315	Cloudy	Moderate	Mid-Ebb	Surface	1.00	14:23	10.12	8.42	30.62	24.58	2.59	2.5
WSR02	20210315	Cloudy	Moderate	Mid-Ebb	Bottom	8.60	14:21	9.62	8.26	31.40	24.51	2.32	4.2
WSR02	20210315	Cloudy	Moderate	Mid-Ebb	Bottom	8.60	14:21	8.60	8.48	31.61	24.63	2.35	3.6
WSR02	20210317	Cloudy	Moderate	Mid-Ebb	Middle	4.90	15:24	10.1	8.51	31.62	25.13	2.6	3.7
WSR02	20210317	Cloudy	Moderate	Mid-Ebb	Middle	4.90	15:24	9.55	8.34	31.60	24.78	2.7	3.6
WSR02	20210317	Cloudy	Moderate	Mid-Ebb	Surface	1.00	15:25	9.88	8.4	30.68	24.85	2.78	2.6
WSR02	20210317	Cloudy	Moderate	Mid-Ebb	Surface	1.00	15:25	8.87	8.34	30.97	24.78	2.6	2.5
WSR02	20210317	Cloudy	Moderate	Mid-Ebb	Bottom	8.80	15:23	9.46	8.28	30.92	25.01	1.9	2.5
WSR02	20210317	Cloudy	Moderate	Mid-Ebb	Bottom	8.80	15:23	8.78	8.41	30.39	25.02	1.78	4.3
WSR02	20210319	Cloudy	Moderate	Mid-Ebb	Middle	4.65	16:21	8.74	8.21	30.84	24.50	2.11	2.5
WSR02	20210319	Cloudy	Moderate	Mid-Ebb	Middle	4.65	16:21	8.68	8.49	30.48	24.48	2.31	2.6
WSR02	20210319	Cloudy	Moderate	Mid-Ebb	Surface	1.00	16:22	9.41	8.39	31.39	24.49	2.28	3.0
WSR02	20210319	Cloudy	Moderate	Mid-Ebb	Surface	1.00	16:22	8.91	8.24	30.70	24.41	1.98	2.8
WSR02	20210319	Cloudy	Moderate	Mid-Ebb	Bottom	8.30	16:20	9.07	8.41	30.88	24.30	2.05	4.3
WSR02	20210319	Cloudy	Moderate	Mid-Ebb	Bottom	8.30	16:20	8.64	8.26	30.64	24.46	2.05	3.0
WSR02	20210323	Cloudy	Moderate	Mid-Ebb	Middle	4.85	18:10	10.33	8.54	30.58	20.63	2.96	2.5
WSR02	20210323	Cloudy	Moderate	Mid-Ebb	Middle	4.85	18:10	10.65	8.54	31.30	20.67	2.94	2.5
WSR02	20210323	Cloudy	Moderate	Mid-Ebb	Surface	1.00	18:11	10.79	8.38	31.07	20.61	3.00	2.5
WSR02	20210323	Cloudy	Moderate	Mid-Ebb	Surface	1.00	18:11	9.34	8.46	30.78	20.64	2.55	2.6
WSR02	20210323	Cloudy	Moderate	Mid-Ebb	Bottom	8.70	18:09	10.21	8.46	30.86	20.36	2.21	2.5
WSR02	20210323	Cloudy	Moderate	Mid-Ebb	Bottom	8.70	18:09	9.61	8.35	31.17	20.59	2.01	2.7
WSR02	20210325	Cloudy	Moderate	Mid-Ebb	Middle	4.95	11:15	10.19	8.33	31.71	26.37	1.81	2.5
WSR02	20210325	Cloudy	Moderate	Mid-Ebb	Middle	4.95	11:15	9.20	8.39	30.97	26.40	1.80	4.1
WSR02	20210325	Cloudy	Moderate	Mid-Ebb	Surface	1.00 Page 11	11:16	9.64	8.41	31.08	26.70	2.15	3.2

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	D0 (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR02	20210325	Cloudy	Moderate	Mid-Ebb	Surface	1.00	11:16	9.51	8.50	30.80	26.31	2.29	4.2
WSR02	20210325	Cloudy	Moderate	Mid-Ebb	Bottom	8.90	11:14	9.93	8.53	31.51	26.64	2.16	3.4
WSR02	20210325	Cloudy	Moderate	Mid-Ebb	Bottom	8.90	11:14	9.97	8.29	31.61	26.30	2.38	2.8
WSR02	20210327	Sunny	Moderate	Mid-Ebb	Middle	4.65	12:15	8.80	8.43	30.49	24.99	2.32	2.9
WSR02	20210327	Sunny	Moderate	Mid-Ebb	Middle	4.65	12:15	8.32	8.33	29.82	24.60	2.19	5.0
WSR02	20210327	Sunny	Moderate	Mid-Ebb	Surface	1.00	12:16	9.12	8.27	30.35	24.79	2.43	2.5
WSR02	20210327	Sunny	Moderate	Mid-Ebb	Surface	1.00	12:16	8.21	8.36	30.00	24.98	2.81	3.8
WSR02	20210327	Sunny	Moderate	Mid-Ebb	Bottom	8.30	12:14	8.08	8.21	30.21	24.58	1.92	3.3
WSR02	20210327	Sunny	Moderate	Mid-Ebb	Bottom	8.30	12:14	9.29	8.49	30.92	24.96	1.92	4.5
WSR02	20210330	Sunny	Moderate	Mid-Ebb	Middle	4.65	14:16	8.12	8.45	31.86	27.78	2.10	2.9
WSR02	20210330	Sunny	Moderate	Mid-Ebb	Middle	4.65	14:16	8.65	8.24	31.23	27.81	2.41	2.5
WSR02	20210330	Sunny	Moderate	Mid-Ebb	Surface	1.00	14:17	8.78	8.37	31.95	27.73	2.82	2.8
WSR02	20210330	Sunny	Moderate	Mid-Ebb	Surface	1.00	14:17	8.10	8.34	31.34	27.83	2.52	2.5
WSR02	20210330	Sunny	Moderate	Mid-Ebb	Bottom	8.30	14:15	8.82	8.36	31.21	27.97	2.29	2.5
WSR02	20210330	Sunny	Moderate	Mid-Ebb	Bottom	8.30	14:15	7.55	8.22	31.13	27.60	2.07	2.5
WSR03	20210301	Cloudy	Moderate	Mid-Ebb	Middle	4.00	13:41	. 10.04	8.45	26.95	21.91	2.17	2.5
WSR03	20210301	Cloudy	Moderate	Mid-Ebb	Middle	4.00	13:41	. 10.00	8.33	26.47	22.08	2.61	. 2.5
WSR03	20210301	Cloudy	Moderate	Mid-Ebb	Surface	1.00	13:42	10.23	8.27	26.29	21.96	2.13	2.5
WSR03	20210301	Cloudy	Moderate	Mid-Ebb	Surface	1.00	13:42	10.27	8.43	26.58	21.89	2.68	3 2.5
WSR03	20210301	Cloudy	Moderate	Mid-Ebb	Bottom	7.00	13:40	9.85	8.30	26.44	21.88	2.26	5 2.5
WSR03	20210301	Cloudy	Moderate	Mid-Ebb	Bottom	7.00	13:40	) 10.70	8.29	26.82	21.97	2.19	2.5
WSR03	20210303	Cloudy	Moderate	Mid-Ebb	Middle	3.75	15:08	10.04	8.24	30.61	20.05	1.95	3.5
WSR03	20210303	Cloudy	Moderate	Mid-Ebb	Middle	3.75	15:08	8 8.81	8.21	30.96	20.19	1.81	4.4
WSR03	20210303	Cloudy	Moderate	Mid-Ebb	Surface	1.00	15:09	8.92	8.42	30.80	20.33	2.53	2.7
WSR03	20210303	Cloudy	Moderate	Mid-Ebb	Surface	1.00	15:09	9.26	8.40	30.93	20.13	2.34	3.7
WSR03	20210303	Cloudy	Moderate	Mid-Ebb	Bottom	6.50	15:07	9.00	8.37	31.26	20.17	2.08	3 4.6
WSR03	20210303	Cloudy	Moderate	Mid-Ebb	Bottom	6.50 Page 12		9.11	8.31	30.42	20.29	1.83	4.0

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR03	20210305	Cloudy	Moderate	Mid-Ebb	Middle	4.25	16:52	9.35	8.39	29.89	20.39	2.05	3.2
WSR03	20210305	Cloudy	Moderate	Mid-Ebb	Middle	4.25	16:52	9.07	8.61	28.69	20.54	1.71	2.8
WSR03	20210305	Cloudy	Moderate	Mid-Ebb	Surface	1.00	16:53	8.40	8.44	28.73	20.22	2.16	3.0
WSR03	20210305	Cloudy	Moderate	Mid-Ebb	Surface	1.00	16:53	8.70	8.49	29.77	20.28	2.39	2.7
WSR03	20210305	Cloudy	Moderate	Mid-Ebb	Bottom	7.50	16:51	8.29	8.43	29.51	20.48	1.72	2.8
WSR03	20210305	Cloudy	Moderate	Mid-Ebb	Bottom	7.50	16:51	9.62	8.60	28.80	20.52	1.80	3.0
WSR03	20210308	Cloudy	Moderate	Mid-Ebb	Middle	3.95	9:41	9.48	8.51	29.80	21.53	2.71	2.5
WSR03	20210308	Cloudy	Moderate	Mid-Ebb	Middle	3.95	9:41	8.30	8.35	30.14	21.53	2.90	2.5
WSR03	20210308	Cloudy	Moderate	Mid-Ebb	Surface	1.00	9:42	9.49	8.50	29.97	21.49	2.53	2.5
WSR03	20210308	Cloudy	Moderate	Mid-Ebb	Surface	1.00	9:42	8.98	8.28	30.27	21.78	2.92	2.5
WSR03	20210308	Cloudy	Moderate	Mid-Ebb	Bottom	6.90	9:40	8.90	8.21	30.46	21.73	2.92	2.6
WSR03	20210308	Cloudy	Moderate	Mid-Ebb	Bottom	6.90	9:40	8.69	8.40	30.13	21.68	2.52	3.5
WSR03	20210310	Cloudy	Moderate	Mid-Ebb	Middle	3.90	11:17	10.62	8.45	30.61	21.87	2.87	3.6
WSR03	20210310	Cloudy	Moderate	Mid-Ebb	Middle	3.90	11:17	10.11	8.23	30.47	21.93	2.67	3.0
WSR03	20210310	Cloudy	Moderate	Mid-Ebb	Surface	1.00	11:18	9.92	8.24	30.64	21.88	2.25	2.5
WSR03	20210310	Cloudy	Moderate	Mid-Ebb	Surface	1.00	11:18	10.51	8.28	30.53	22.00	2.63	3.3
WSR03	20210310	Cloudy	Moderate	Mid-Ebb	Bottom	6.80	11:16	10.08	8.34	30.34	21.90	2.58	3.2
WSR03	20210310	Cloudy	Moderate	Mid-Ebb	Bottom	6.80	11:16	10.10	8.40	31.54	22.17	2.64	4.0
WSR03	20210312	Cloudy	Moderate	Mid-Ebb	Middle	4.25	12:30	9.61	8.46	30.90	24.96	2.45	3.6
WSR03	20210312	Cloudy	Moderate	Mid-Ebb	Middle	4.25	12:30	9.09	8.27	30.25	24.70	2.81	4.0
WSR03	20210312	Cloudy	Moderate	Mid-Ebb	Surface	1.00	12:31	9.93	8.22	30.31	24.91	2.31	3.5
WSR03	20210312	Cloudy	Moderate	Mid-Ebb	Surface	1.00	12:31	10.06	8.57	30.37	24.91	2.36	3.6
WSR03	20210312	Cloudy	Moderate	Mid-Ebb	Bottom	7.50	12:29	9.80	8.25	30.44	24.95	2.28	3.8
WSR03	20210312	Cloudy	Moderate	Mid-Ebb	Bottom	7.50	12:29	9.11	8.25	30.52	24.87	2.40	3.6
WSR03	20210315	Cloudy	Moderate	Mid-Ebb	Middle	4.10	14:03	9.88	8.29	30.69	24.60	2.61	2.8
WSR03	20210315	Cloudy	Moderate	Mid-Ebb	Middle	4.10	14:03	9.26	8.30	30.60	24.72	2.29	3.3
WSR03	20210315	Cloudy	Moderate	Mid-Ebb	Surface	1.00	14:04	9.74	8.30	31.53	24.74	2.43	2.7

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	D0 (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR03	20210315	Cloudy	Moderate	Mid-Ebb	Surface	1.00	14:04	9.80	8.35	31.10	24.80	2.69	3.5
WSR03	20210315	Cloudy	Moderate	Mid-Ebb	Bottom	7.20	14:02	8.93	8.50	30.43	24.90	1.89	3.1
WSR03	20210315	Cloudy	Moderate	Mid-Ebb	Bottom	7.20	14:02	9.50	8.48	30.30	24.81	1.95	3.5
WSR03	20210317	Cloudy	Moderate	Mid-Ebb	Middle	3.75	15:07	8.81	8.36	30.49	25.05	2.61	2.8
WSR03	20210317	Cloudy	Moderate	Mid-Ebb	Middle	3.75	15:07	9.11	8.3	31.34	25.03	2.65	3.8
WSR03	20210317	Cloudy	Moderate	Mid-Ebb	Surface	1.00	15:08	8.9	8.44	31.63	24.96	2.54	2.5
WSR03	20210317	Cloudy	Moderate	Mid-Ebb	Surface	1.00	15:08	8.74	8.32	31.20	25.17	2.58	2.5
WSR03	20210317	Cloudy	Moderate	Mid-Ebb	Bottom	6.50	15:06	10.04	8.27	31.64	24.87	1.78	3.5
WSR03	20210317	Cloudy	Moderate	Mid-Ebb	Bottom	6.50	15:06	9.33	8.23	31.40	24.81	1.68	3.1
WSR03	20210319	Cloudy	Moderate	Mid-Ebb	Middle	4.20	16:04	8.81	8.44	31.17	24.42	2.38	3.8
WSR03	20210319	Cloudy	Moderate	Mid-Ebb	Middle	4.20	16:04	8.89	8.31	31.59	24.44	2.03	2.5
WSR03	20210319	Cloudy	Moderate	Mid-Ebb	Surface	1.00	16:05	10.01	8.39	30.79	24.34	2.53	2.5
WSR03	20210319	Cloudy	Moderate	Mid-Ebb	Surface	1.00	16:05	9.47	8.48	30.92	24.52	2.29	2.8
WSR03	20210319	Cloudy	Moderate	Mid-Ebb	Bottom	7.40	16:03	9.19	8.51	31.36	24.54	1.81	3.2
WSR03	20210319	Cloudy	Moderate	Mid-Ebb	Bottom	7.40	16:03	9.24	8.36	31.18	24.33	1.90	2.9
WSR03	20210323	Cloudy	Moderate	Mid-Ebb	Middle	3.80	17:49	10.42	8.57	30.53	20.56	2.52	2.8
WSR03	20210323	Cloudy	Moderate	Mid-Ebb	Middle	3.80	17:49	9.11	8.51	31.49	20.50	2.30	2.9
WSR03	20210323	Cloudy	Moderate	Mid-Ebb	Surface	1.00	17:50	10.02	8.39	31.30	20.66	2.54	2.8
WSR03	20210323	Cloudy	Moderate	Mid-Ebb	Surface	1.00	17:50	10.76	8.42	30.76	20.59	2.77	2.5
WSR03	20210323	Cloudy	Moderate	Mid-Ebb	Bottom	6.60	17:48	9.43	8.39	30.99	20.40	2.65	2.5
WSR03	20210323	Cloudy	Moderate	Mid-Ebb	Bottom	6.60	17:48	10.10	8.37	31.41	20.48	2.52	2.6
WSR03	20210325	Cloudy	Moderate	Mid-Ebb	Middle	4.20	10:57	9.89	8.32	31.68	26.71	2.36	3.5
WSR03	20210325	Cloudy	Moderate	Mid-Ebb	Middle	4.20	10:57	9.48	8.36	31.54	26.59	2.31	3.1
WSR03	20210325	Cloudy	Moderate	Mid-Ebb	Surface	1.00	10:58	9.38	8.53	31.50	26.66	2.88	3.5
WSR03	20210325	Cloudy	Moderate	Mid-Ebb	Surface	1.00	10:58	9.46	8.31	30.54	26.35	2.55	4.5
WSR03	20210325	Cloudy	Moderate	Mid-Ebb	Bottom	7.40	10:56	9.69	8.45	31.19	26.32	1.95	3.7
WSR03	20210325	Cloudy	Moderate	Mid-Ebb	Bottom	7.40	10:56	9.42	8.40	31.26	26.38	1.81	3.4

Contract No. 13/WSD/17

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR03	20210327	Sunny	Moderate	Mid-Ebb	Middle	4.05	11:55	8.84	8.23	29.30	24.82	2.56	2.9
WSR03	20210327	Sunny	Moderate	Mid-Ebb	Middle	4.05	11:55	9.38	8.25	29.50	24.57	2.50	3.2
WSR03	20210327	Sunny	Moderate	Mid-Ebb	Surface	1.00	11:56	8.21	8.28	29.88	24.64	2.35	4.7
WSR03	20210327	Sunny	Moderate	Mid-Ebb	Surface	1.00	11:56	9.33	8.27	30.64	24.63	2.70	3.6
WSR03	20210327	Sunny	Moderate	Mid-Ebb	Bottom	7.10	11:54	9.29	8.51	30.56	24.61	2.00	4.3
WSR03	20210327	Sunny	Moderate	Mid-Ebb	Bottom	7.10	11:54	8.31	8.32	29.87	24.76	2.19	2.5
WSR03	20210330	Sunny	Moderate	Mid-Ebb	Middle	4.05	13:58	8.14	8.34	31.13	27.70	2.52	2.5
WSR03	20210330	Sunny	Moderate	Mid-Ebb	Middle	4.05	13:58	7.97	8.38	31.27	27.56	2.22	2.5
WSR03	20210330	Sunny	Moderate	Mid-Ebb	Surface	1.00	13:59	7.66	8.39	31.19	27.66	2.31	2.5
WSR03	20210330	Sunny	Moderate	Mid-Ebb	Surface	1.00	13:59	8.84	8.41	31.84	27.92	2.35	2.5
WSR03	20210330	Sunny	Moderate	Mid-Ebb	Bottom	7.10	13:57	8.25	8.21	31.79	27.90	1.75	2.5
WSR03	20210330	Sunny	Moderate	Mid-Ebb	Bottom	7.10	13:57	8.73	8.43	31.34	27.96	1.85	2.5
WSR04	20210301	Cloudy	Moderate	Mid-Ebb	Middle	3.85	13:22	10.07	8.23	26.31	21.80	2.44	2.5
WSR04	20210301	Cloudy	Moderate	Mid-Ebb	Middle	3.85	13:22	10.21	8.50	26.42	21.78	2.03	2.5
WSR04	20210301	Cloudy	Moderate	Mid-Ebb	Surface	1.00	13:23	10.74	8.23	26.41	21.74	2.47	2.5
WSR04	20210301	Cloudy	Moderate	Mid-Ebb	Surface	1.00	13:23	10.71	8.50	26.32	21.70	2.86	2.5
WSR04	20210301	Cloudy	Moderate	Mid-Ebb	Bottom	6.70	13:21	9.42	8.44	26.98	21.73	1.72	2.5
WSR04	20210301	Cloudy	Moderate	Mid-Ebb	Bottom	6.70	13:21	9.70	8.24	26.75	21.93	2.18	2.5
WSR04	20210303	Cloudy	Moderate	Mid-Ebb	Middle	3.40	14:47	8.62	8.47	30.59	20.24	2.07	3.6
WSR04	20210303	Cloudy	Moderate	Mid-Ebb	Middle	3.40	14:47	9.90	8.47	31.53	20.21	1.85	3.4
WSR04	20210303	Cloudy	Moderate	Mid-Ebb	Surface	1.00	14:48	8.85	8.31	30.53	20.10	2.14	3.8
WSR04	20210303	Cloudy	Moderate	Mid-Ebb	Surface	1.00	14:48	8.59	8.28	31.58	20.23	2.4	4.1
WSR04	20210303	Cloudy	Moderate	Mid-Ebb	Bottom	5.80	14:46	9.27	8.30	30.79	20.21	2.42	2.5
WSR04	20210303	Cloudy	Moderate	Mid-Ebb	Bottom	5.80	14:46	9.81	8.46	30.93	20.23	2.12	3.1
WSR04	20210305	Cloudy	Moderate	Mid-Ebb	Middle	3.45	16:33	9.34	8.60	28.92	20.52	2.10	2.6
WSR04	20210305	Cloudy	Moderate	Mid-Ebb	Middle	3.45	16:33	9.21	8.37	29.12	20.35	1.98	3.7
WSR04	20210305	Cloudy	Moderate	Mid-Ebb	Surface	1.00 Page 15	16:34 of 29	8.68	8.42	29.50	20.53	1.96	3.3

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR04	20210305	Cloudy	Moderate	Mid-Ebb	Surface	1.00	16:34	9.18	8.41	29.23	20.60	1.93	2.5
WSR04	20210305	Cloudy	Moderate	Mid-Ebb	Bottom	5.90	16:32	8.45	8.56	29.83	20.27	1.67	2.5
WSR04	20210305	Cloudy	Moderate	Mid-Ebb	Bottom	5.90	16:32	9.12	8.50	30.16	20.40	1.49	2.8
WSR04	20210308	Cloudy	Moderate	Mid-Ebb	Middle	3.35	9:22	9.24	8.61	30.11	21.65	2.29	2.8
WSR04	20210308	Cloudy	Moderate	Mid-Ebb	Middle	3.35	9:22	9.59	8.55	30.48	21.72	2.66	3.1
WSR04	20210308	Cloudy	Moderate	Mid-Ebb	Surface	1.00	9:23	8.59	8.59	30.29	21.36	3.10	2.5
WSR04	20210308	Cloudy	Moderate	Mid-Ebb	Surface	1.00	9:23	9.21	8.59	30.51	21.63	3.02	3.3
WSR04	20210308	Cloudy	Moderate	Mid-Ebb	Bottom	5.70	9:21	9.72	8.38	29.93	21.70	2.09	3.0
WSR04	20210308	Cloudy	Moderate	Mid-Ebb	Bottom	5.70	9:21	8.60	8.58	29.79	21.65	1.82	4.5
WSR04	20210310	Cloudy	Moderate	Mid-Ebb	Middle	3.45	11:02	10.00	8.43	30.90	22.03	2.83	3.1
WSR04	20210310	Cloudy	Moderate	Mid-Ebb	Middle	3.45	11:02	10.30	8.27	30.34	22.01	2.60	2.5
WSR04	20210310	Cloudy	Moderate	Mid-Ebb	Surface	1.00	11:03	10.27	8.31	31.22	21.92	2.86	3.4
WSR04	20210310	Cloudy	Moderate	Mid-Ebb	Surface	1.00	11:03	10.82	8.27	30.31	22.02	2.47	3.5
WSR04	20210310	Cloudy	Moderate	Mid-Ebb	Bottom	5.90	11:01	10.73	8.24	31.06	21.79	2.39	3.6
WSR04	20210310	Cloudy	Moderate	Mid-Ebb	Bottom	5.90	11:01	9.40	8.33	30.88	22.09	2.11	4.3
WSR04	20210312	Cloudy	Moderate	Mid-Ebb	Middle	3.40	12:12	10.12	8.38	30.12	24.68	2.50	4.0
WSR04	20210312	Cloudy	Moderate	Mid-Ebb	Middle	3.40	12:12	9.05	8.56	30.51	24.67	2.18	4.3
WSR04	20210312	Cloudy	Moderate	Mid-Ebb	Surface	1.00	12:13	9.05	8.24	30.61	24.79	2.90	3.6
WSR04	20210312	Cloudy	Moderate	Mid-Ebb	Surface	1.00	12:13	9.75	8.57	29.84	24.70	2.42	3.9
WSR04	20210312	Cloudy	Moderate	Mid-Ebb	Bottom	5.80	12:11	8.99	8.46	30.69	24.69	2.11	3.6
WSR04	20210312	Cloudy	Moderate	Mid-Ebb	Bottom	5.80	12:11	9.09	8.28	29.99	24.61	1.95	2.5
WSR04	20210315	Cloudy	Moderate	Mid-Ebb	Middle	3.55	13:48	9.11	8.49	30.94	24.78	1.79	3.1
WSR04	20210315	Cloudy	Moderate	Mid-Ebb	Middle	3.55	13:48	8.93	8.35	31.61	24.44	2.02	3.7
WSR04	20210315	Cloudy	Moderate	Mid-Ebb	Surface	1.00	13:49	10.04	8.37	31.48	24.77	2.61	2.5
WSR04	20210315	Cloudy	Moderate	Mid-Ebb	Surface	1.00	13:49	8.60	8.27	30.91	24.66	2.54	2.7
WSR04	20210315	Cloudy	Moderate	Mid-Ebb	Bottom	6.10	13:47	8.75	8.30	30.30	24.45	2.23	2.5
WSR04	20210315	Cloudy	Moderate	Mid-Ebb	Bottom	6.10 Page 16	13:47	8.68	8.47	31.27	24.74	2.16	2.5

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	D0 (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR04	20210317	Cloudy	Moderate	Mid-Ebb	Middle	3.90	14:52	8.95	8.26	30.57	25.34	2.29	3.1
WSR04	20210317	Cloudy	Moderate	Mid-Ebb	Middle	3.90	14:52	10.05	8.5	31.21	24.94	2.29	4.2
WSR04	20210317	Cloudy	Moderate	Mid-Ebb	Surface	1.00	14:53	9.77	8.51	30.98	24.94	2.55	3.2
WSR04	20210317	Cloudy	Moderate	Mid-Ebb	Surface	1.00	14:53	9.01	8.51	30.50	25.07	2.87	4.0
WSR04	20210317	Cloudy	Moderate	Mid-Ebb	Bottom	6.80	14:51	8.99	8.37	30.65	25.18	2.01	3.4
WSR04	20210317	Cloudy	Moderate	Mid-Ebb	Bottom	6.80	14:51	10.19	8.45	30.56	25.08	2.4	3.2
WSR04	20210319	Cloudy	Moderate	Mid-Ebb	Middle	3.70	15:47	8.88	8.29	30.32	24.42	2.06	2.7
WSR04	20210319	Cloudy	Moderate	Mid-Ebb	Middle	3.70	15:47	8.96	8.39	31.51	24.40	2.34	3.2
WSR04	20210319	Cloudy	Moderate	Mid-Ebb	Surface	1.00	15:48	8.80	8.32	31.17	24.52	2.26	2.9
WSR04	20210319	Cloudy	Moderate	Mid-Ebb	Surface	1.00	15:48	8.86	8.31	30.82	24.50	2.34	4.0
WSR04	20210319	Cloudy	Moderate	Mid-Ebb	Bottom	6.40	15:46	8.70	8.41	30.45	24.37	2.21	2.8
WSR04	20210319	Cloudy	Moderate	Mid-Ebb	Bottom	6.40	15:46	9.21	8.51	30.55	24.51	1.97	2.8
WSR04	20210323	Cloudy	Moderate	Mid-Ebb	Middle	3.40	17:34	10.75	8.38	30.99	20.86	2.82	2.8
WSR04	20210323	Cloudy	Moderate	Mid-Ebb	Middle	3.40	17:34	9.13	8.51	31.10	20.70	2.58	2.6
WSR04	20210323	Cloudy	Moderate	Mid-Ebb	Surface	1.00	17:35	9.58	8.58	30.56	20.71	2.74	2.8
WSR04	20210323	Cloudy	Moderate	Mid-Ebb	Surface	1.00	17:35	9.04	8.46	30.71	20.80	2.45	2.5
WSR04	20210323	Cloudy	Moderate	Mid-Ebb	Bottom	5.80	17:33	10.59	8.59	31.31	20.82	2.41	2.5
WSR04	20210323	Cloudy	Moderate	Mid-Ebb	Bottom	5.80	17:33	9.50	8.49	30.82	20.61	2.56	2.5
WSR04	20210325	Cloudy	Moderate	Mid-Ebb	Middle	3.65	10:40	9.91	8.39	30.53	26.43	2.25	3.0
WSR04	20210325	Cloudy	Moderate	Mid-Ebb	Middle	3.65	10:40	9.59	8.30	30.62	26.57	2.56	3.5
WSR04	20210325	Cloudy	Moderate	Mid-Ebb	Surface	1.00	10:41	10.07	8.57	30.70	26.60	2.46	3.8
WSR04	20210325	Cloudy	Moderate	Mid-Ebb	Surface	1.00	10:41	9.58	8.53	30.55	26.56	2.72	3.9
WSR04	20210325	Cloudy	Moderate	Mid-Ebb	Bottom	6.30	10:39	9.16	8.31	31.67	26.38	1.82	4.2
WSR04	20210325	Cloudy	Moderate	Mid-Ebb	Bottom	6.30	10:39	9.69	8.46	31.59	26.60	1.91	5.1
WSR04	20210327	Sunny	Moderate	Mid-Ebb	Middle	3.75	11:40	9.08	8.44	29.66	24.56	2.31	2.5
WSR04	20210327	Sunny	Moderate	Mid-Ebb	Middle	3.75	11:40	8.52	8.21	29.31	24.87	2.65	2.5
WSR04	20210327	Sunny	Moderate	Mid-Ebb	Surface	1.00 Page 17	11:41 of 29	8.53	8.48	29.68	24.80	2.67	2.5

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR04	20210327	Sunny	Moderate	Mid-Ebb	Surface	1.00	11:41	8.82	8.37	30.62	24.56	2.86	2.5
WSR04	20210327	Sunny	Moderate	Mid-Ebb	Bottom	6.50	11:39	9.41	8.46	29.87	24.65	1.74	2.5
WSR04	20210327	Sunny	Moderate	Mid-Ebb	Bottom	6.50	11:39	8.31	8.48	29.58	24.91	1.69	2.5
WSR04	20210330	Sunny	Moderate	Mid-Ebb	Middle	3.85	13:43	7.54	8.25	31.39	27.56	2.08	2.5
WSR04	20210330	Sunny	Moderate	Mid-Ebb	Middle	3.85	13:43	8.20	8.43	31.70	27.57	2.25	2.5
WSR04	20210330	Sunny	Moderate	Mid-Ebb	Surface	1.00	13:44	8.51	8.48	31.73	27.89	2.52	2.5
WSR04	20210330	Sunny	Moderate	Mid-Ebb	Surface	1.00	13:44	7.95	8.39	31.79	27.61	2.83	2.5
WSR04	20210330	Sunny	Moderate	Mid-Ebb	Bottom	6.70	13:42	7.63	8.29	31.94	27.89	2.31	2.5
WSR04	20210330	Sunny	Moderate	Mid-Ebb	Bottom	6.70	13:42	8.15	8.28	31.71	27.68	2.03	2.5
WSR16	20210301	Cloudy	Moderate	Mid-Ebb	Middle	8.40	12:53	10.38	8.25	26.28	21.53	2.61	2.5
WSR16	20210301	Cloudy	Moderate	Mid-Ebb	Middle	8.40	12:53	10.94	8.31	26.39	21.65	1.98	2.5
WSR16	20210301	Cloudy	Moderate	Mid-Ebb	Surface	1.00	12:54	9.63	8.30	26.71	21.62	2.14	2.5
WSR16	20210301	Cloudy	Moderate	Mid-Ebb	Surface	1.00	12:54	10.87	8.48	26.85	21.53	2.88	2.5
WSR16	20210301	Cloudy	Moderate	Mid-Ebb	Bottom	15.80	12:52	10.95	8.49	26.90	21.55	1.84	2.5
WSR16	20210301	Cloudy	Moderate	Mid-Ebb	Bottom	15.80	12:52	10.83	8.51	26.22	21.66	1.66	2.5
WSR16	20210303	Cloudy	Moderate	Mid-Ebb	Middle	7.90	14:16	9.54	8.24	30.64	20.19	1.48	3.0
WSR16	20210303	Cloudy	Moderate	Mid-Ebb	Middle	7.90	14:16	10.19	8.50	30.74	20.05	1.76	2.9
WSR16	20210303	Cloudy	Moderate	Mid-Ebb	Surface	1.00	14:17	9.83	8.36	30.68	20.04	1.85	3.1
WSR16	20210303	Cloudy	Moderate	Mid-Ebb	Surface	1.00	14:17	9.46	8.31	31.28	20.33	2.15	3.0
WSR16	20210303	Cloudy	Moderate	Mid-Ebb	Bottom	14.80	14:15	9.28	8.27	30.36	20.21	1.59	2.9
WSR16	20210303	Cloudy	Moderate	Mid-Ebb	Bottom	14.80	14:15	10.14	8.27	31.23	20.25	1.64	3.1
WSR16	20210305	Cloudy	Moderate	Mid-Ebb	Middle	8.25	16:03	9.37	8.48	28.78	20.45	2.33	2.9
WSR16	20210305	Cloudy	Moderate	Mid-Ebb	Middle	8.25	16:03	8.42	8.50	29.16	20.67	2.13	2.6
WSR16	20210305	Cloudy	Moderate	Mid-Ebb	Surface	1.00	16:04	9.79	8.36	29.20	20.68	2.24	3.1
WSR16	20210305	Cloudy	Moderate	Mid-Ebb	Surface	1.00	16:04	9.36	8.36	29.95	20.75	2.03	3.1
WSR16	20210305	Cloudy	Moderate	Mid-Ebb	Bottom	15.50	16:02	9.38	8.56	30.04	20.58	1.47	3.2
WSR16	20210305	Cloudy	Moderate	Mid-Ebb	Bottom	15.50 Page 18	16:02	9.44	8.38	28.87	20.42	1.66	3.7

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR16	20210308	Cloudy	Moderate	Mid-Ebb	Middle	8.45	8:48	9.24	8.49	30.22	21.50	2.86	2.9
WSR16	20210308	Cloudy	Moderate	Mid-Ebb	Middle	8.45	8:48	9.47	8.27	29.61	21.59	2.68	2.5
WSR16	20210308	Cloudy	Moderate	Mid-Ebb	Surface	1.00	8:49	8.20	8.48	29.94	21.54	2.81	3.7
WSR16	20210308	Cloudy	Moderate	Mid-Ebb	Surface	1.00	8:49	9.22	8.27	29.75	21.63	2.50	4.7
WSR16	20210308	Cloudy	Moderate	Mid-Ebb	Bottom	15.90	8:47	9.37	8.49	29.70	21.58	2.56	2.8
WSR16	20210308	Cloudy	Moderate	Mid-Ebb	Bottom	15.90	8:47	9.39	8.55	30.08	21.76	2.19	2.9
WSR16	20210310	Cloudy	Moderate	Mid-Ebb	Middle	8.25	9:48	9.80	8.22	30.28	21.58	2.18	3.4
WSR16	20210310	Cloudy	Moderate	Mid-Ebb	Middle	8.25	9:48	9.48	8.47	31.15	21.56	2.54	3.6
WSR16	20210310	Cloudy	Moderate	Mid-Ebb	Surface	1.00	9:49	10.19	8.24	30.40	21.74	2.77	2.7
WSR16	20210310	Cloudy	Moderate	Mid-Ebb	Surface	1.00	9:49	10.26	8.43	30.73	21.84	3.12	3.2
WSR16	20210310	Cloudy	Moderate	Mid-Ebb	Bottom	15.50	9:47	9.61	8.46	30.99	21.62	2.00	3.4
WSR16	20210310	Cloudy	Moderate	Mid-Ebb	Bottom	15.50	9:47	9.90	8.21	31.47	21.63	1.93	3.5
WSR16	20210312	Cloudy	Moderate	Mid-Ebb	Middle	8.00	10:56	9.98	8.36	29.72	24.79	2.56	3.2
WSR16	20210312	Cloudy	Moderate	Mid-Ebb	Middle	8.00	10:56	9.61	8.43	30.37	24.73	2.19	3.9
WSR16	20210312	Cloudy	Moderate	Mid-Ebb	Surface	1.00	10:57	9.68	8.38	30.16	24.64	2.91	3.7
WSR16	20210312	Cloudy	Moderate	Mid-Ebb	Surface	1.00	10:57	9.13	8.31	29.65	24.67	2.62	4.0
WSR16	20210312	Cloudy	Moderate	Mid-Ebb	Bottom	15.00	10:55	8.98	8.49	30.18	24.41	2.32	4.2
WSR16	20210312	Cloudy	Moderate	Mid-Ebb	Bottom	15.00	10:55	9.80	8.60	30.52	24.71	2.05	3.1
WSR16	20210315	Cloudy	Moderate	Mid-Ebb	Middle	8.05	12:28	9.36	8.43	30.51	24.28	1.90	2.5
WSR16	20210315	Cloudy	Moderate	Mid-Ebb	Middle	8.05	12:28	9.30	8.27	31.20	24.22	2.26	4.0
WSR16	20210315	Cloudy	Moderate	Mid-Ebb	Surface	1.00	12:29	8.60	8.35	31.23	24.32	2.17	3.5
WSR16	20210315	Cloudy	Moderate	Mid-Ebb	Surface	1.00	12:29	9.77	8.25	31.25	24.24	2.53	4.0
WSR16	20210315	Cloudy	Moderate	Mid-Ebb	Bottom	15.10	12:27	9.40	8.44	31.27	24.25	1.83	3.0
WSR16	20210315	Cloudy	Moderate	Mid-Ebb	Bottom	15.10	12:27	10.16	8.35	31.56	24.59	2.04	4.9
WSR16	20210317	Cloudy	Moderate	Mid-Ebb	Middle	7.70	13:35	8.87	8.36	31.62	24.73	2.01	7.6
WSR16	20210317	Cloudy	Moderate	Mid-Ebb	Middle	7.70	13:35	9.21	8.4	31.64	24.83	2.22	4.7
WSR16	20210317	Cloudy	Moderate	Mid-Ebb	Surface	1.00 Page 19	13:36 of 29	9.05	8.27	30.65	24.77	2.45	4.5

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR16	20210317	Cloudy	Moderate	Mid-Ebb	Surface	1.00	13:36	10.17	8.24	31.44	25.07	2.88	2.5
WSR16	20210317	Cloudy	Moderate	Mid-Ebb	Bottom	14.40	13:34	9.19	8.4	31.42	25.03	2.56	5.4
WSR16	20210317	Cloudy	Moderate	Mid-Ebb	Bottom	14.40	13:34	9.91	8.25	31.53	24.88	2.15	2.5
WSR16	20210319	Cloudy	Moderate	Mid-Ebb	Middle	8.05	14:29	9.98	8.23	31.39	24.78	2.09	3.1
WSR16	20210319	Cloudy	Moderate	Mid-Ebb	Middle	8.05	14:29	10.15	8.37	30.72	24.67	1.82	2.9
WSR16	20210319	Cloudy	Moderate	Mid-Ebb	Surface	1.00	14:30	9.06	8.38	31.48	24.69	2.70	2.6
WSR16	20210319	Cloudy	Moderate	Mid-Ebb	Surface	1.00	14:30	9.15	8.24	31.33	24.67	2.57	2.5
WSR16	20210319	Cloudy	Moderate	Mid-Ebb	Bottom	15.10	14:28	8.84	8.30	30.89	24.44	1.67	3.3
WSR16	20210319	Cloudy	Moderate	Mid-Ebb	Bottom	15.10	14:28	9.89	8.33	31.68	24.62	1.95	2.9
WSR16	20210323	Cloudy	Moderate	Mid-Ebb	Middle	7.65	16:29	9.12	8.39	30.81	20.53	2.87	2.5
WSR16	20210323	Cloudy	Moderate	Mid-Ebb	Middle	7.65	16:29	9.08	8.48	30.93	20.64	2.57	2.5
WSR16	20210323	Cloudy	Moderate	Mid-Ebb	Surface	1.00	16:30	9.90	8.38	30.53	20.67	2.63	2.7
WSR16	20210323	Cloudy	Moderate	Mid-Ebb	Surface	1.00	16:30	9.69	8.45	31.47	20.82	3.03	3.2
WSR16	20210323	Cloudy	Moderate	Mid-Ebb	Bottom	14.30	16:28	9.95	8.48	30.95	20.67	2.72	2.6
WSR16	20210323	Cloudy	Moderate	Mid-Ebb	Bottom	14.30	16:28	10.37	8.39	31.50	20.71	2.31	4.2
WSR16	20210325	Cloudy	Moderate	Mid-Ebb	Middle	8.15	9:13	10.05	8.60	31.30	26.67	2.22	4.1
WSR16	20210325	Cloudy	Moderate	Mid-Ebb	Middle	8.15	9:13	10.23	8.29	31.66	26.47	2.63	5.2
WSR16	20210325	Cloudy	Moderate	Mid-Ebb	Surface	1.00	9:14	9.26	8.41	31.61	26.40	2.54	5.7
WSR16	20210325	Cloudy	Moderate	Mid-Ebb	Surface	1.00	9:14	9.32	8.37	31.47	26.51	2.83	4.2
WSR16	20210325	Cloudy	Moderate	Mid-Ebb	Bottom	15.30	9:12	9.51	8.39	31.25	26.67	2.01	6.0
WSR16	20210325	Cloudy	Moderate	Mid-Ebb	Bottom	15.30	9:12	10.07	8.54	30.54	26.36	1.87	5.0
WSR16	20210327	Sunny	Moderate	Mid-Ebb	Middle	7.70	10:22	8.37	8.31	29.83	24.38	2.46	2.5
WSR16	20210327	Sunny	Moderate	Mid-Ebb	Middle	7.70	10:22	8.93	8.43	29.30	24.78	2.09	2.5
WSR16	20210327	Sunny	Moderate	Mid-Ebb	Surface	1.00	10:23	9.07	8.26	30.04	24.78	2.61	2.5
WSR16	20210327	Sunny	Moderate	Mid-Ebb	Surface	1.00	10:23	9.40	8.35	30.40	24.46	2.62	2.5
WSR16	20210327	Sunny	Moderate	Mid-Ebb	Bottom	14.40	10:21	8.64	8.42	29.70	24.77	1.85	2.5
WSR16	20210327	Sunny	Moderate	Mid-Ebb	Bottom	14.40 Page 20	10:21 of 29	8.25	8.36	29.88	24.54	2.08	2.5

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR16	20210330	Sunny	Moderate	Mid-Ebb	Middle	8.10	12:29	7.97	8.19	31.34	27.43	2.34	2.5
WSR16	20210330	Sunny	Moderate	Mid-Ebb	Middle	8.10	12:29	7.54	8.28	31.36	27.45	2.08	2.5
WSR16	20210330	Sunny	Moderate	Mid-Ebb	Surface	1.00	12:30	8.67	8.26	31.71	27.29	2.32	2.5
WSR16	20210330	Sunny	Moderate	Mid-Ebb	Surface	1.00	12:30	7.62	8.18	31.53	27.39	2.37	2.5
WSR16	20210330	Sunny	Moderate	Mid-Ebb	Bottom	15.20	12:28	7.87	8.18	31.41	27.26	2.04	2.5
WSR16	20210330	Sunny	Moderate	Mid-Ebb	Bottom	15.20	12:28	8.25	8.30	31.52	27.43	2.35	2.5
WSR33	20210301	Cloudy	Moderate	Mid-Ebb	Middle	3.70	12:56	9.41	8.35	26.87	21.70	2.47	2.5
WSR33	20210301	Cloudy	Moderate	Mid-Ebb	Middle	3.70	12:56	9.48	8.33	26.19	21.63	2.18	3 2.5
WSR33	20210301	Cloudy	Moderate	Mid-Ebb	Surface	1.00	12:57	9.41	8.34	26.58	21.51	2.48	3 2.5
WSR33	20210301	Cloudy	Moderate	Mid-Ebb	Surface	1.00	12:57	9.84	8.21	26.62	21.51	2.31	2.5
WSR33	20210301	Cloudy	Moderate	Mid-Ebb	Bottom	6.40	12:55	10.65	8.31	26.93	21.45	2.25	2.5
WSR33	20210301	Cloudy	Moderate	Mid-Ebb	Bottom	6.40	12:55	10.85	8.24	26.69	21.61	2.20	2.5
WSR33	20210303	Cloudy	Moderate	Mid-Ebb	Middle	3.75	14:21	9.88	8.26	30.34	20.15	1.9	3.4
WSR33	20210303	Cloudy	Moderate	Mid-Ebb	Middle	3.75	14:21	8.82	8.33	30.93	20.16	1.63	2.5
WSR33	20210303	Cloudy	Moderate	Mid-Ebb	Surface	1.00	14:22	8.71	8.47	31.32	20.33	2.6	5 3.9
WSR33	20210303	Cloudy	Moderate	Mid-Ebb	Surface	1.00	14:22	9.96	8.25	31.02	20.24	2.81	2.6
WSR33	20210303	Cloudy	Moderate	Mid-Ebb	Bottom	6.50	14:20	9.33	8.25	30.97	20.18	2.17	3.2
WSR33	20210303	Cloudy	Moderate	Mid-Ebb	Bottom	6.50	14:20	10.14	8.32	30.84	20.34	2.32	2.9
WSR33	20210305	Cloudy	Moderate	Mid-Ebb	Middle	3.85	16:07	8.38	8.58	28.74	20.38	2.00	3.6
WSR33	20210305	Cloudy	Moderate	Mid-Ebb	Middle	3.85	16:07	9.70	8.37	28.94	20.58	2.13	2.7
WSR33	20210305	Cloudy	Moderate	Mid-Ebb	Surface	1.00	16:08	9.10	8.43	28.93	20.77	2.37	2.7
WSR33	20210305	Cloudy	Moderate	Mid-Ebb	Surface	1.00	16:08	9.35	8.50	29.54	20.73	2.05	2.5
WSR33	20210305	Cloudy	Moderate	Mid-Ebb	Bottom	6.70	16:06	9.48	8.59	30.06	20.49	1.81	2.5
WSR33	20210305	Cloudy	Moderate	Mid-Ebb	Bottom	6.70	16:06	9.31	8.48	29.24	20.74	1.77	3.1
WSR33	20210308	Cloudy	Moderate	Mid-Ebb	Middle	3.75	8:56	8.72	8.25	29.76	21.55	2.76	3.3
WSR33	20210308	Cloudy	Moderate	Mid-Ebb	Middle	3.75	8:56	8.10	8.52	29.70	21.58	2.56	6 4.0
WSR33	20210308	Cloudy	Moderate	Mid-Ebb	Surface	1.00 Page 21	8:57	8.33	8.42	30.02	21.50	2.91	4.3

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR33	20210308	Cloudy	Moderate	Mid-Ebb	Surface	1.00	8:57	8.40	8.34	29.96	21.58	2.91	4.0
WSR33	20210308	Cloudy	Moderate	Mid-Ebb	Bottom	6.50	8:55	8.94	8.46	29.67	21.73	2.09	3.2
WSR33	20210308	Cloudy	Moderate	Mid-Ebb	Bottom	6.50	8:55	8.71	8.22	30.42	21.38	2.43	3.9
WSR33	20210310	Cloudy	Moderate	Mid-Ebb	Middle	3.65	10:45	10.76	8.50	30.97	21.90	2.26	3.4
WSR33	20210310	Cloudy	Moderate	Mid-Ebb	Middle	3.65	10:45	9.56	8.27	30.64	21.92	2.37	3.4
WSR33	20210310	Cloudy	Moderate	Mid-Ebb	Surface	1.00	10:46	10.16	8.45	31.26	21.98	2.78	3.8
WSR33	20210310	Cloudy	Moderate	Mid-Ebb	Surface	1.00	10:46	9.76	8.40	30.72	21.97	2.36	3.5
WSR33	20210310	Cloudy	Moderate	Mid-Ebb	Bottom	6.30	10:44	10.88	8.43	31.14	21.93	2.43	3.3
WSR33	20210310	Cloudy	Moderate	Mid-Ebb	Bottom	6.30	10:44	9.39	8.38	31.45	21.87	2.23	3.1
WSR33	20210312	Cloudy	Moderate	Mid-Ebb	Middle	3.60	11:55	9.11	8.29	30.05	24.75	2.19	3.9
WSR33	20210312	Cloudy	Moderate	Mid-Ebb	Middle	3.60	11:55	10.11	8.38	30.27	24.50	2.57	4.1
WSR33	20210312	Cloudy	Moderate	Mid-Ebb	Surface	1.00	11:56	9.88	8.52	29.72	24.61	2.47	3.9
WSR33	20210312	Cloudy	Moderate	Mid-Ebb	Surface	1.00	11:56	9.44	8.37	30.34	24.72	2.74	4.0
WSR33	20210312	Cloudy	Moderate	Mid-Ebb	Bottom	6.20	11:54	9.30	8.26	29.87	24.50	2.13	3.8
WSR33	20210312	Cloudy	Moderate	Mid-Ebb	Bottom	6.20	11:54	9.83	8.60	30.64	24.59	2.42	4.0
WSR33	20210315	Cloudy	Moderate	Mid-Ebb	Middle	3.70	13:28	9.10	8.28	31.64	24.51	2.43	3.5
WSR33	20210315	Cloudy	Moderate	Mid-Ebb	Middle	3.70	13:28	9.93	8.29	30.92	24.51	2.59	3.4
WSR33	20210315	Cloudy	Moderate	Mid-Ebb	Surface	1.00	13:29	8.80	8.46	31.24	24.61	2.83	2.5
WSR33	20210315	Cloudy	Moderate	Mid-Ebb	Surface	1.00	13:29	8.77	8.29	30.37	24.48	2.63	3.7
WSR33	20210315	Cloudy	Moderate	Mid-Ebb	Bottom	6.40	13:27	9.23	8.39	30.98	24.57	2.28	3.0
WSR33	20210315	Cloudy	Moderate	Mid-Ebb	Bottom	6.40	13:27	9.20	8.25	30.74	24.56	2.19	3.4
WSR33	20210317	Cloudy	Moderate	Mid-Ebb	Middle	3.75	14:32	9.93	8.45	31.63	24.89	2.46	2.6
WSR33	20210317	Cloudy	Moderate	Mid-Ebb	Middle	3.75	14:32	8.87	8.33	30.62	24.97	2.45	3.8
WSR33	20210317	Cloudy	Moderate	Mid-Ebb	Surface	1.00	14:33	8.85	8.46	30.29	25.18	2.05	2.5
WSR33	20210317	Cloudy	Moderate	Mid-Ebb	Surface	1.00	14:33	10.04	8.41	30.85	24.89	2.35	2.7
WSR33	20210317	Cloudy	Moderate	Mid-Ebb	Bottom	6.50	14:31	8.97	8.33	30.76	25.15	1.71	3.0
WSR33	20210317	Cloudy	Moderate	Mid-Ebb	Bottom	6.50 Page 22	14:31 of 29	9.43	8.22	31.61	24.89	1.43	2.9

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	D0 (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR33	20210319	Cloudy	Moderate	Mid-Ebb	Middle	3.80	15:30	8.63	8.43	30.41	24.47	1.95	4.0
WSR33	20210319	Cloudy	Moderate	Mid-Ebb	Middle	3.80	15:30	9.00	8.40	30.62	24.25	2.01	2.5
WSR33	20210319	Cloudy	Moderate	Mid-Ebb	Surface	1.00	15:31	9.67	8.24	31.36	24.54	2.52	3.1
WSR33	20210319	Cloudy	Moderate	Mid-Ebb	Surface	1.00	15:31	8.85	8.27	30.56	24.26	2.15	2.5
WSR33	20210319	Cloudy	Moderate	Mid-Ebb	Bottom	6.60	15:29	8.63	8.39	30.88	24.34	1.61	2.5
WSR33	20210319	Cloudy	Moderate	Mid-Ebb	Bottom	6.60	15:29	9.76	8.23	31.18	24.50	1.50	3.0
WSR33	20210323	Cloudy	Moderate	Mid-Ebb	Middle	3.65	17:20	9.73	8.46	31.16	20.43	2.42	3.0
WSR33	20210323	Cloudy	Moderate	Mid-Ebb	Middle	3.65	17:20	9.87	8.42	30.66	20.55	2.24	2.5
WSR33	20210323	Cloudy	Moderate	Mid-Ebb	Surface	1.00	17:21	10.70	8.37	30.78	20.43	2.39	2.5
WSR33	20210323	Cloudy	Moderate	Mid-Ebb	Surface	1.00	17:21	9.26	8.60	30.68	20.63	2.46	2.5
WSR33	20210323	Cloudy	Moderate	Mid-Ebb	Bottom	6.30	17:19	10.33	8.48	30.84	20.75	1.98	2.5
WSR33	20210323	Cloudy	Moderate	Mid-Ebb	Bottom	6.30	17:19	9.44	8.58	31.04	20.79	2.33	2.5
WSR33	20210325	Cloudy	Moderate	Mid-Ebb	Middle	3.55	10:20	9.89	8.56	31.66	26.70	1.90	6.0
WSR33	20210325	Cloudy	Moderate	Mid-Ebb	Middle	3.55	10:20	10.19	8.59	30.87	26.41	1.89	4.3
WSR33	20210325	Cloudy	Moderate	Mid-Ebb	Surface	1.00	10:21	10.06	8.32	31.21	26.69	2.39	4.9
WSR33	20210325	Cloudy	Moderate	Mid-Ebb	Surface	1.00	10:21	9.25	8.33	31.63	26.61	2.34	5.4
WSR33	20210325	Cloudy	Moderate	Mid-Ebb	Bottom	6.10	10:19	9.64	8.53	31.75	26.65	2.39	7.6
WSR33	20210325	Cloudy	Moderate	Mid-Ebb	Bottom	6.10	10:19	9.72	8.57	31.22	26.63	2.13	5.8
WSR33	20210327	Sunny	Moderate	Mid-Ebb	Middle	3.55	11:23	8.48	8.40	29.64	24.78	1.82	2.5
WSR33	20210327	Sunny	Moderate	Mid-Ebb	Middle	3.55	11:23	8.37	8.50	30.79	24.80	1.99	2.5
WSR33	20210327	Sunny	Moderate	Mid-Ebb	Surface	1.00	11:24	8.42	8.45	29.68	24.70	2.56	2.5
WSR33	20210327	Sunny	Moderate	Mid-Ebb	Surface	1.00	11:24	9.33	8.45	29.44	24.55	2.78	2.5
WSR33	20210327	Sunny	Moderate	Mid-Ebb	Bottom	6.10	11:22	9.41	8.23	29.52	24.60	2.35	7.2
WSR33	20210327	Sunny	Moderate	Mid-Ebb	Bottom	6.10	11:22	9.28	8.28	29.67	24.96	1.96	2.5
WSR33	20210330	Sunny	Moderate	Mid-Ebb	Middle	3.70	13:26	8.32	8.20	31.17	27.78	2.18	2.5
WSR33	20210330	Sunny	Moderate	Mid-Ebb	Middle	3.70	13:26	8.03	8.20	31.41	27.80	1.97	2.9
WSR33	20210330	Sunny	Moderate	Mid-Ebb	Surface	1.00 Page 23	13:27	8.63	8.34	31.88	27.79	2.62	3.1

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR33	20210330	Sunny	Moderate	Mid-Ebb	Surface	1.00	13:27	8.70	8.37	31.73	27.68	2.72	2.5
WSR33	20210330	Sunny	Moderate	Mid-Ebb	Bottom	6.40	13:25	7.75	8.23	31.91	27.46	2.06	2.6
WSR33	20210330	Sunny	Moderate	Mid-Ebb	Bottom	6.40	13:25	8.45	8.34	31.09	27.81	2.05	2.5
WSR36	20210301	Cloudy	Moderate	Mid-Ebb	Middle	3.20	12:29	9.44	8.38	26.82	21.66	2.19	2.5
WSR36	20210301	Cloudy	Moderate	Mid-Ebb	Middle	3.20	12:29	9.24	8.28	26.59	21.53	2.12	2.5
WSR36	20210301	Cloudy	Moderate	Mid-Ebb	Surface	1.00	12:29	9.38	8.30	26.76	21.53	2.20	2.5
WSR36	20210301	Cloudy	Moderate	Mid-Ebb	Surface	1.00	12:29	10.26	8.28	26.79	21.63	2.12	2.5
WSR36	20210301	Cloudy	Moderate	Mid-Ebb	Bottom	5.40	12:28	10.43	8.27	26.80	21.48	1.94	2.5
WSR36	20210301	Cloudy	Moderate	Mid-Ebb	Bottom	5.40	12:28	10.07	8.46	26.87	21.57	2.09	2.5
WSR36	20210303	Cloudy	Moderate	Mid-Ebb	Middle	3.80	13:52	9.85	8.33	30.77	20.07	2.46	3.5
WSR36	20210303	Cloudy	Moderate	Mid-Ebb	Middle	3.80	13:52	8.58	8.33	31.27	20.17	2.63	3.6
WSR36	20210303	Cloudy	Moderate	Mid-Ebb	Surface	1.00	13:52	9.02	8.27	31.39	20.04	2.59	3.7
WSR36	20210303	Cloudy	Moderate	Mid-Ebb	Surface	1.00	13:52	9.26	8.33	31.08	20.19	2.48	3.3
WSR36	20210303	Cloudy	Moderate	Mid-Ebb	Bottom	6.60	13:51	8.70	8.36	31.21	20.26	1.97	3.4
WSR36	20210303	Cloudy	Moderate	Mid-Ebb	Bottom	6.60	13:51	9.20	8.35	31.60	20.31	2.3	4.0
WSR36	20210305	Cloudy	Moderate	Mid-Ebb	Middle	3.40	15:40	8.77	8.52	29.43	20.57	1.78	4.0
WSR36	20210305	Cloudy	Moderate	Mid-Ebb	Middle	3.40	15:40	8.87	8.51	29.59	20.67	1.89	2.9
WSR36	20210305	Cloudy	Moderate	Mid-Ebb	Surface	1.00	15:40	9.25	8.52	29.78	20.73	2.16	4.4
WSR36	20210305	Cloudy	Moderate	Mid-Ebb	Surface	1.00	15:40	9.26	8.36	29.67	20.68	1.87	3.2
WSR36	20210305	Cloudy	Moderate	Mid-Ebb	Bottom	5.80	15:39	8.85	8.46	28.80	20.66	2.12	2.5
WSR36	20210305	Cloudy	Moderate	Mid-Ebb	Bottom	5.80	15:39	8.40	8.34	29.37	20.53	2.09	3.0
WSR36	20210308	Cloudy	Moderate	Mid-Ebb	Middle	3.50	8:29	8.90	8.40	29.78	21.60	2.61	3.9
WSR36	20210308	Cloudy	Moderate	Mid-Ebb	Middle	3.50	8:29	8.83	8.53	29.73	21.39	2.87	4.1
WSR36	20210308	Cloudy	Moderate	Mid-Ebb	Surface	1.00	8:29	9.03	8.42	30.37	21.40	2.86	4.3
WSR36	20210308	Cloudy	Moderate	Mid-Ebb	Surface	1.00	8:29	8.51	8.22	29.76	21.57	2.99	3.8
WSR36	20210308	Cloudy	Moderate	Mid-Ebb	Bottom	6.00	8:28	8.52	8.40	30.19	21.44	2.62	3.5
WSR36	20210308	Cloudy	Moderate	Mid-Ebb	Bottom	6.00 Page 24	8:28 of 29	9.28	8.54	29.64	21.48	2.54	3.9

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR36	20210310	Cloudy	Moderate	Mid-Ebb	Middle	3.60	10:29	10.00	8.23	31.37	21.71	2.21	3.1
WSR36	20210310	Cloudy	Moderate	Mid-Ebb	Middle	3.60	10:29	10.73	8.23	30.64	21.82	2.19	2.9
WSR36	20210310	Cloudy	Moderate	Mid-Ebb	Surface	1.00	10:29	9.75	8.25	30.18	21.84	2.98	2.8
WSR36	20210310	Cloudy	Moderate	Mid-Ebb	Surface	1.00	10:29	10.62	8.39	31.35	21.89	3.07	4.1
WSR36	20210310	Cloudy	Moderate	Mid-Ebb	Bottom	6.20	10:28	10.10	8.36	31.42	21.70	2.18	3.0
WSR36	20210310	Cloudy	Moderate	Mid-Ebb	Bottom	6.20	10:28	10.94	8.32	31.39	21.80	2.59	3.2
WSR36	20210312	Cloudy	Moderate	Mid-Ebb	Middle	3.50	11:39	9.81	8.52	30.29	24.63	2.36	3.4
WSR36	20210312	Cloudy	Moderate	Mid-Ebb	Middle	3.50	11:39	9.91	8.48	29.85	24.68	2.27	3.1
WSR36	20210312	Cloudy	Moderate	Mid-Ebb	Surface	1.00	11:39	9.95	8.49	30.38	24.82	2.68	3.7
WSR36	20210312	Cloudy	Moderate	Mid-Ebb	Surface	1.00	11:39	10.07	8.59	29.79	24.56	2.92	3.5
WSR36	20210312	Cloudy	Moderate	Mid-Ebb	Bottom	6.00	11:38	9.57	8.22	30.65	24.85	2.44	4.3
WSR36	20210312	Cloudy	Moderate	Mid-Ebb	Bottom	6.00	11:38	9.78	8.31	30.29	24.48	2.41	4.0
WSR36	20210315	Cloudy	Moderate	Mid-Ebb	Middle	3.10	13:12	9.56	8.30	31.02	24.53	2.59	2.8
WSR36	20210315	Cloudy	Moderate	Mid-Ebb	Middle	3.10	13:12	9.83	8.27	30.91	24.74	2.27	3.2
WSR36	20210315	Cloudy	Moderate	Mid-Ebb	Surface	1.00	13:12	9.46	8.45	31.38	24.30	2.89	3.2
WSR36	20210315	Cloudy	Moderate	Mid-Ebb	Surface	1.00	13:12	9.71	8.24	30.88	24.67	2.86	3.5
WSR36	20210315	Cloudy	Moderate	Mid-Ebb	Bottom	5.20	13:11	9.89	8.28	30.94	24.31	1.87	3.1
WSR36	20210315	Cloudy	Moderate	Mid-Ebb	Bottom	5.20	13:11	8.62	8.30	31.57	24.50	2.15	4.1
WSR36	20210317	Cloudy	Moderate	Mid-Ebb	Middle	3.60	14:16	9.84	8.34	30.50	24.92	1.87	2.5
WSR36	20210317	Cloudy	Moderate	Mid-Ebb	Middle	3.60	14:16	10.07	8.27	30.28	25.28	2.08	3.0
WSR36	20210317	Cloudy	Moderate	Mid-Ebb	Surface	1.00	14:16	9.54	8.26	30.36	25.10	2.61	3.6
WSR36	20210317	Cloudy	Moderate	Mid-Ebb	Surface	1.00	14:16	9.13	8.27	31.43	25.08	2.26	2.5
WSR36	20210317	Cloudy	Moderate	Mid-Ebb	Bottom	6.20	14:15	8.67	8.49	30.39	25.22	2.11	3.9
WSR36	20210317	Cloudy	Moderate	Mid-Ebb	Bottom	6.20	14:15	9.40	8.35	30.43	25.07	1.76	2.5
WSR36	20210319	Cloudy	Moderate	Mid-Ebb	Middle	3.80	15:12	9.87	8.21	30.68	24.39	2.10	2.5
WSR36	20210319	Cloudy	Moderate	Mid-Ebb	Middle	3.80	15:12	8.89	8.33	31.20	24.38	2.19	2.8
WSR36	20210319	Cloudy	Moderate	Mid-Ebb	Surface	1.00 Page 25	15:12	9.81	8.22	30.35	24.52	2.36	3.5

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR36	20210319	Cloudy	Moderate	Mid-Ebb	Surface	1.00	15:12	8.75	8.30	31.36	24.32	2.14	3.0
WSR36	20210319	Cloudy	Moderate	Mid-Ebb	Bottom	6.60	15:11	9.95	8.36	31.60	24.55	1.84	2.5
WSR36	20210319	Cloudy	Moderate	Mid-Ebb	Bottom	6.60	15:11	9.93	8.37	30.59	24.56	1.85	2.5
WSR36	20210323	Cloudy	Moderate	Mid-Ebb	Middle	3.80	17:06	10.16	8.62	31.34	20.47	2.79	2.5
WSR36	20210323	Cloudy	Moderate	Mid-Ebb	Middle	3.80	17:06	9.32	8.49	31.36	20.80	2.66	2.5
WSR36	20210323	Cloudy	Moderate	Mid-Ebb	Surface	1.00	17:06	10.57	8.51	30.61	20.74	2.65	2.5
WSR36	20210323	Cloudy	Moderate	Mid-Ebb	Surface	1.00	17:06	9.11	8.41	30.56	20.57	2.69	2.5
WSR36	20210323	Cloudy	Moderate	Mid-Ebb	Bottom	6.60	17:05	9.82	8.40	31.34	20.45	2.47	2.5
WSR36	20210323	Cloudy	Moderate	Mid-Ebb	Bottom	6.60	17:05	10.28	8.56	31.50	20.62	2.61	2.5
WSR36	20210325	Cloudy	Moderate	Mid-Ebb	Middle	3.40	10:01	9.62	8.47	30.70	26.70	2.58	4.5
WSR36	20210325	Cloudy	Moderate	Mid-Ebb	Middle	3.40	10:01	10.25	8.43	31.27	26.69	2.46	4.7
WSR36	20210325	Cloudy	Moderate	Mid-Ebb	Surface	1.00	10:01	10.04	8.30	30.71	26.34	2.61	4.7
WSR36	20210325	Cloudy	Moderate	Mid-Ebb	Surface	1.00	10:01	9.86	8.35	31.28	26.68	2.40	5.9
WSR36	20210325	Cloudy	Moderate	Mid-Ebb	Bottom	5.80	10:00	9.22	8.29	31.61	26.68	2.22	6.9
WSR36	20210325	Cloudy	Moderate	Mid-Ebb	Bottom	5.80	10:00	9.81	8.40	30.67	26.61	2.10	5.1
WSR36	20210327	Sunny	Moderate	Mid-Ebb	Middle	3.50	11:05	8.34	8.37	30.73	24.74	2.45	2.5
WSR36	20210327	Sunny	Moderate	Mid-Ebb	Middle	3.50	11:05	8.93	8.47	30.61	24.80	2.07	2.5
WSR36	20210327	Sunny	Moderate	Mid-Ebb	Surface	1.00	11:05	9.10	8.22	30.65	24.69	2.13	2.5
WSR36	20210327	Sunny	Moderate	Mid-Ebb	Surface	1.00	11:05	8.50	8.27	29.40	24.69	2.47	3.6
WSR36	20210327	Sunny	Moderate	Mid-Ebb	Bottom	6.00	11:04	8.56	8.40	30.66	24.91	1.77	2.5
WSR36	20210327	Sunny	Moderate	Mid-Ebb	Bottom	6.00	11:04	9.16	8.44	30.93	24.82	1.59	2.5
WSR36	20210330	Sunny	Moderate	Mid-Ebb	Middle	3.40	13:10	8.07	8.38	31.11	27.49	2.02	2.5
WSR36	20210330	Sunny	Moderate	Mid-Ebb	Middle	3.40	13:10	8.71	8.26	31.23	27.57	2.16	2.5
WSR36	20210330	Sunny	Moderate	Mid-Ebb	Surface	1.00	13:10	8.13	8.38	31.43	27.45	2.63	2.7
WSR36	20210330	Sunny	Moderate	Mid-Ebb	Surface	1.00	13:10	8.40	8.19	31.35	27.43	2.22	2.7
WSR36	20210330	Sunny	Moderate	Mid-Ebb	Bottom	5.80	13:09	8.01	8.48	31.86	27.66	2.23	2.5
WSR36	20210330	Sunny	Moderate	Mid-Ebb	Bottom	5.80 Page 26	13:09	7.87	8.47	31.66	27.49	2.03	2.5

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR37	20210301	Cloudy	Moderate	Mid-Ebb	Middle	4.15	12:08	10.57	8.50	26.64	21.50	2.62	2.5
WSR37	20210301	Cloudy	Moderate	Mid-Ebb	Middle	4.15	12:08	9.09	8.22	26.66	21.56	2.20	2.5
WSR37	20210301	Cloudy	Moderate	Mid-Ebb	Surface	1.00	12:09	9.79	8.27	26.55	21.33	2.05	2.5
WSR37	20210301	Cloudy	Moderate	Mid-Ebb	Surface	1.00	12:09	9.24	8.21	26.44	21.44	2.47	2.5
WSR37	20210301	Cloudy	Moderate	Mid-Ebb	Bottom	7.30	12:07	9.23	8.32	26.41	21.59	1.94	2.5
WSR37	20210301	Cloudy	Moderate	Mid-Ebb	Bottom	7.30	12:07	10.86	8.48	26.18	21.50	1.80	2.5
WSR37	20210303	Cloudy	Moderate	Mid-Ebb	Middle	4.10	13:31	8.77	8.41	30.30	20.08	2.02	3.2
WSR37	20210303	Cloudy	Moderate	Mid-Ebb	Middle	4.10	13:31	9.69	8.34	31.56	20.23	1.93	2.8
WSR37	20210303	Cloudy	Moderate	Mid-Ebb	Surface	1.00	13:32	10.09	8.25	31.07	19.86	2.71	3.4
WSR37	20210303	Cloudy	Moderate	Mid-Ebb	Surface	1.00	13:32	9.95	8.42	31.35	20.18	2.67	4.4
WSR37	20210303	Cloudy	Moderate	Mid-Ebb	Bottom	7.20	13:30	10.05	8.41	30.60	19.99	2.55	4.2
WSR37	20210303	Cloudy	Moderate	Mid-Ebb	Bottom	7.20	13:30	8.64	8.24	31.64	20.06	2.26	4.4
WSR37	20210305	Cloudy	Moderate	Mid-Ebb	Middle	4.00	15:19	9.75	8.62	29.23	20.41	1.95	5.5
WSR37	20210305	Cloudy	Moderate	Mid-Ebb	Middle	4.00	15:19	9.66	8.59	29.47	20.35	2.00	4.4
WSR37	20210305	Cloudy	Moderate	Mid-Ebb	Surface	1.00	15:20	8.91	8.52	28.90	20.59	2.45	3.1
WSR37	20210305	Cloudy	Moderate	Mid-Ebb	Surface	1.00	15:20	8.85	8.55	29.28	20.32	2.37	3.3
WSR37	20210305	Cloudy	Moderate	Mid-Ebb	Bottom	7.00	15:18	8.75	8.46	29.99	20.36	1.32	4.1
WSR37	20210305	Cloudy	Moderate	Mid-Ebb	Bottom	7.00	15:18	8.97	8.59	29.52	20.65	1.56	3.8
WSR37	20210308	Cloudy	Moderate	Mid-Ebb	Middle	4.00	8:08	9.43	8.47	29.70	21.48	2.27	4.3
WSR37	20210308	Cloudy	Moderate	Mid-Ebb	Middle	4.00	8:08	9.00	8.46	29.65	21.30	2.24	5.5
WSR37	20210308	Cloudy	Moderate	Mid-Ebb	Surface	1.00	8:09	9.42	8.30	29.60	21.66	2.89	4.4
WSR37	20210308	Cloudy	Moderate	Mid-Ebb	Surface	1.00	8:09	9.28	8.39	29.66	21.39	2.65	3.4
WSR37	20210308	Cloudy	Moderate	Mid-Ebb	Bottom	7.00	8:07	8.48	8.40	30.31	21.70	2.58	3.5
WSR37	20210308	Cloudy	Moderate	Mid-Ebb	Bottom	7.00	8:07	8.32	8.59	29.74	21.49	2.58	3.7
WSR37	20210310	Cloudy	Moderate	Mid-Ebb	Middle	4.00	10:12	10.94	8.26	30.99	21.68	2.67	4.0
WSR37	20210310	Cloudy	Moderate	Mid-Ebb	Middle	4.00	10:12	10.22	8.44	31.02	21.91	2.80	3.5
WSR37	20210310	Cloudy	Moderate	Mid-Ebb	Surface	1.00 Page 27	10:13	10.77	8.34	31.51	21.87	2.96	4.7

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR37	20210310	Cloudy	Moderate	Mid-Ebb	Surface	1.00	10:13	10.34	8.21	30.70	21.86	2.82	3.8
WSR37	20210310	Cloudy	Moderate	Mid-Ebb	Bottom	7.00	10:11	9.90	8.39	31.47	21.78	2.20	3.3
WSR37	20210310	Cloudy	Moderate	Mid-Ebb	Bottom	7.00	10:11	10.66	8.29	31.42	21.76	1.94	3.8
WSR37	20210312	Cloudy	Moderate	Mid-Ebb	Middle	4.15	11:20	9.97	8.47	29.90	24.39	2.63	3.3
WSR37	20210312	Cloudy	Moderate	Mid-Ebb	Middle	4.15	11:20	9.03	8.31	29.94	24.74	2.58	3.7
WSR37	20210312	Cloudy	Moderate	Mid-Ebb	Surface	1.00	11:21	9.20	8.53	29.59	24.73	2.25	3.9
WSR37	20210312	Cloudy	Moderate	Mid-Ebb	Surface	1.00	11:21	10.04	8.50	30.82	24.49	2.50	3.4
WSR37	20210312	Cloudy	Moderate	Mid-Ebb	Bottom	7.30	11:19	9.02	8.41	30.44	24.47	2.32	4.4
WSR37	20210312	Cloudy	Moderate	Mid-Ebb	Bottom	7.30	11:19	9.84	8.39	30.31	24.66	1.99	4.2
WSR37	20210315	Cloudy	Moderate	Mid-Ebb	Middle	3.80	12:52	8.87	8.41	30.40	24.59	2.23	2.9
WSR37	20210315	Cloudy	Moderate	Mid-Ebb	Middle	3.80	12:52	8.68	8.29	31.67	24.38	2.49	3.2
WSR37	20210315	Cloudy	Moderate	Mid-Ebb	Surface	1.00	12:53	9.39	8.42	31.64	24.33	2.80	3.0
WSR37	20210315	Cloudy	Moderate	Mid-Ebb	Surface	1.00	12:53	8.78	8.44	30.76	24.70	2.38	3.9
WSR37	20210315	Cloudy	Moderate	Mid-Ebb	Bottom	6.60	12:51	9.59	8.40	30.49	24.37	2.21	3.0
WSR37	20210315	Cloudy	Moderate	Mid-Ebb	Bottom	6.60	12:51	9.58	8.38	31.33	24.72	1.89	2.9
WSR37	20210317	Cloudy	Moderate	Mid-Ebb	Middle	3.80	13:59	9.33	8.46	31.40	24.97	2.58	3.7
WSR37	20210317	Cloudy	Moderate	Mid-Ebb	Middle	3.80	13:59	8.81	8.40	30.58	25.15	2.18	3.1
WSR37	20210317	Cloudy	Moderate	Mid-Ebb	Surface	1.00	14:00	9.61	8.23	31.64	24.83	2.75	3.0
WSR37	20210317	Cloudy	Moderate	Mid-Ebb	Surface	1.00	14:00	9.04	8.28	31.25	24.85	2.32	3.0
WSR37	20210317	Cloudy	Moderate	Mid-Ebb	Bottom	6.60	13:58	9.97	8.5	30.78	24.81	1.94	3.4
WSR37	20210317	Cloudy	Moderate	Mid-Ebb	Bottom	6.60	13:58	9.53	8.5	31.34	25.25	1.98	3.1
WSR37	20210319	Cloudy	Moderate	Mid-Ebb	Middle	4.00	14:53	9.15	8.30	30.81	24.42	2.44	2.5
WSR37	20210319	Cloudy	Moderate	Mid-Ebb	Middle	4.00	14:53	8.90	8.40	30.77	24.48	2.17	3.1
WSR37	20210319	Cloudy	Moderate	Mid-Ebb	Surface	1.00	14:54	9.19	8.28	30.56	24.57	2.47	5.9
WSR37	20210319	Cloudy	Moderate	Mid-Ebb	Surface	1.00	14:54	9.39	8.44	31.35	24.34	2.44	3.0
WSR37	20210319	Cloudy	Moderate	Mid-Ebb	Bottom	7.00	14:52	10.06	8.45	30.85	24.49	1.96	2.7
WSR37	20210319	Cloudy	Moderate	Mid-Ebb	Bottom	7.00 Page 28	14:52	9.99	8.35	30.34	24.57	2.23	2.5

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time (hh:mm)	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) note 1	SS (mg/L)
WSR37	20210323	Cloudy	Moderate	Mid-Ebb	Middle	4.05	16:51	10.67	8.44	31.35	20.84	2.57	2.5
WSR37	20210323	Cloudy	Moderate	Mid-Ebb	Middle	4.05	16:51	10.52	8.52	30.93	20.69	2.77	2.5
WSR37	20210323	Cloudy	Moderate	Mid-Ebb	Surface	1.00	16:52	9.28	8.37	31.24	20.63	2.36	2.5
WSR37	20210323	Cloudy	Moderate	Mid-Ebb	Surface	1.00	16:52	10.59	8.38	30.88	20.69	2.69	2.5
WSR37	20210323	Cloudy	Moderate	Mid-Ebb	Bottom	7.10	16:50	9.00	8.50	31.08	20.63	2.72	2.5
WSR37	20210323	Cloudy	Moderate	Mid-Ebb	Bottom	7.10	16:50	9.93	8.46	31.28	20.77	2.73	2.9
WSR37	20210325	Cloudy	Moderate	Mid-Ebb	Middle	4.15	9:41	9.53	8.36	30.72	26.47	2.27	5.6
WSR37	20210325	Cloudy	Moderate	Mid-Ebb	Middle	4.15	9:41	9.88	8.36	30.77	26.43	2.28	3.3
WSR37	20210325	Cloudy	Moderate	Mid-Ebb	Surface	1.00	9:42	9.68	8.53	30.66	26.34	2.69	7.3
WSR37	20210325	Cloudy	Moderate	Mid-Ebb	Surface	1.00	9:42	9.48	8.44	30.82	26.49	2.87	7.3
WSR37	20210325	Cloudy	Moderate	Mid-Ebb	Bottom	7.30	9:40	9.03	8.63	31.16	26.58	1.99	6.9
WSR37	20210325	Cloudy	Moderate	Mid-Ebb	Bottom	7.30	9:40	8.99	8.40	31.22	26.64	1.77	7.3
WSR37	20210327	Sunny	Moderate	Mid-Ebb	Middle	4.00	10:48	9.01	8.45	30.28	24.53	2.05	2.8
WSR37	20210327	Sunny	Moderate	Mid-Ebb	Middle	4.00	10:48	9.32	8.30	29.89	24.83	2.31	2.8
WSR37	20210327	Sunny	Moderate	Mid-Ebb	Surface	1.00	10:49	9.13	8.34	30.04	24.59	2.54	2.5
WSR37	20210327	Sunny	Moderate	Mid-Ebb	Surface	1.00	10:49	8.64	8.37	30.85	24.58	2.27	2.5
WSR37	20210327	Sunny	Moderate	Mid-Ebb	Bottom	7.00	10:47	8.86	8.48	29.59	24.44	2.15	2.5
WSR37	20210327	Sunny	Moderate	Mid-Ebb	Bottom	7.00	10:47	8.25	8.21	30.71	24.81	2.18	2.8
WSR37	20210330	Sunny	Moderate	Mid-Ebb	Middle	4.35	12:53	7.75	8.44	31.55	27.38	2.58	2.5
WSR37	20210330	Sunny	Moderate	Mid-Ebb	Middle	4.35	12:53	7.70	8.43	31.12	27.52	2.28	2.5
WSR37	20210330	Sunny	Moderate	Mid-Ebb	Surface	1.00	12:54	8.58	8.22	31.12	27.51	2.35	2.6
WSR37	20210330	Sunny	Moderate	Mid-Ebb	Surface	1.00	12:54	8.54	8.30	31.24	27.34	2.16	2.5
WSR37	20210330	Sunny	Moderate	Mid-Ebb	Bottom	7.70	12:52	8.58	8.48	31.89	27.62	2.00	2.7
WSR37	20210330	Sunny	Moderate	Mid-Ebb	Bottom	7.70	12:52	8.55	8.38	31.57	27.51	2.31	2.8

Note 1: Measurements of turbidity would be rounding to 0.1 NTU for proven accuracy as per the equipment specs during utilization of data.



## Appendix M

# **HOKLAS Laboratory Certificate**





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

has been accepted by the HKAS Executive, on the recommendation of the Accreditation Advisory Board, as a 在認可證詞委員會的證據下獲委准認可處執行機關接受為

> HOKLAS Accredited Laboratory 「香港實驗所認可計劃」認可實驗所

This laboratory meets the requirements of ISO/IEC 17025:2005 and it has been accredited for performing specific tests or calibrations as listed in the scope of accreditation within the test category of

**Environmental Testing** 

此實驗所符合ISO/IEC 17025:2005所訂的要求 並獲認可進行義於認可範圍內下述測試類別中的指定測試成校正工作

環境測試

This accreditation to ISO/IEC 17025:2005 demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (see joint IAF-ILAC-ISO Communique), 此場 ISO/IEC 17025:2005 的部項責務理界共変整新用最相定素額分析最後的技術能力並 實現一套實驗所實量領理體系(見國際超可論層、國際實驗所認可含作組織及國際標準化組織的關合公廳)。

The common seal of the Hong Kong Accreditation Service is affixed hereto by the authority of the HKAS Executive 限經素灌肥可處執行機關授權在此首上香港認可處的印章

WONG Wang-wah, Exacutive Administrator 執行幹事 養宏華 Issue Date: 16 July 2014 發發日期:二零一四年七月十六日 Registration Number: HOKLAS 241 註冊號碼:

This certificate is issued subject to be terms and conditions laid down by HKAS 本證書經經書業證可處訂互約傳該及媒件證出



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

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# Appendix N

# Water Quality Equipment Calibration Certificate



Report No.	:	B.
Date of Issue	:	26
Page No.	:	1

A020068 6 February 2021 of 2

#### PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited Unit C, 11/F, Ford Glory Plaza 37-39 Wing Hong Street Cheung Sha Wan, Kowloon, Hong Kong Attn: Mr. Nelson TSUI

#### **PART B – DESCRIPTION**

Name of Equipment	:	Multi Water Quality Checker U-53
Manufacturer	:	Horiba
Serial Number	:	A55XB7UP
Date of Received	:	Feb 25, 2021
Date of Calibration	:	Feb 26, 2021
Date of Next Calibration(a)	:	May 25, 2021

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

Parameter	Reference Method
pH at 25°C	APHA 21e 4500-H ⁺ B
Dissolved Oxygen	APHA 21e 4500-O G
Salinity	APHA 21e 2520 B
Turbidity	APHA 21e 2130 B
Temperature	Section 6 of international Accreditation New Zealand Technical
	Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.
Oxidation-Reduction Potential	APHA 22e 2580 B

#### PART D - CALIBRATION RESULTS^(b,c)

#### (1) pH at 25°C

Target (pH unit)	Displayed Reading ^(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	4.11	0.11	Satisfactory
7.42	7.36	-0.06	Satisfactory
10.01	10.16	0.15	Satisfactory

Tolerance of pH should be less than ±0.20 (pH unit)

#### (2) Temperature

Reading of Ref. thermometer	Displayed Reading (°C)	Tolerance (°C)	Results
16	16.84	0.84	Satisfactory
21	20.80	-0.20	Satisfactory
39	38.74	-0.26	Satisfactory

Tolerance limit of temperature should be less than ±2.0 (°C)

~ CONTINUED ON NEXT PAGE ~

<u>Remark(s): -</u>

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 (b)

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

(d)

"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 (e) international standards.

EE Chun-ning, Desmond

Senior Chemist



Report No.	:	BA020068
Date of Issue	:	26 February 2021
Page No.		2 of 2

#### PART D - CALIBRATION RESULTS (Cont'd)

#### (3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.26	0.60	0.34	Satisfactory
3.87	4.10	0.23	Satisfactory
7.18	7.10	-0.08	Satisfactory
8.49	8.49	0.00	Satisfactory

Tolerance limit of dissolved oxygen should be less than  $\pm 0.50$  (mg/L)

#### (4) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.80	-2.00	Satisfactory
20	18.30	-8.50	Satisfactory
30	31.70	5.67	Satisfactory

Tolerance limit of salinity should be less than ±10.0 (%)

#### (5) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.00		Satisfactory
10	10.5	5.0	Satisfactory
20	21.2	6.0	Satisfactory
100	104	4.0	Satisfactory
800	813	1.6	Satisfactory

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

#### (6) Oxidation-Reduction Potential

Expected Reading (mV)	Displayed Reading (mV)	Tolerance (mV) ^(g)	Results
229	227	-2	Satisfactory

~ END OF REPORT ~

Remark(s): -

Displayed Reading" presents the figures 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.



Report No.
Date of Issue
Page No.

BA030040 11 March 2021 1 of 2

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#### PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited Unit C, 11/F, Ford Glory Plaza 37-39 Wing Hong Street Cheung Sha Wan, Kowloon, Hong Kong Attn: Mr. Nelson TSUI

#### PART B - DESCRIPTION

Name of Equipment	:	Multi Water Quality Checker U-53
Manufacturer	:	Horiba
Serial Number	:	L20550GA
Date of Received	:	Mar 04, 2021
Date of Calibration	:	Mar 09, 2021
Date of Next Calibration(a)	:	Jun 08, 2021

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

Parameter	Reference Method
pH at 25°C	APHA 21e 4500-H ⁺ B
Dissolved Oxygen	APHA 21e 4500-O G
Salinity	APHA 21e 2520 B
Turbidity	APHA 21e 2130 B
Temperature	Section 6 of international Accreditation New Zealand Technical
<u>r</u>	Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

#### PART D - CALIBRATION RESULTS^(b,c)

#### (1) pH at 25°C

Target (pH unit)	Displayed Reading ^(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	4.06	0.06	Satisfactory
7.42	7.38	-0.04	Satisfactory
10.01	10.11	0.10	Satisfactory

Tolerance of pH should be less than ±0.20 (pH unit)

#### (2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
13	13.46	0.46	Satisfactory
25	24.23	-0.77	Satisfactory
38	37.65	-0.35	Satisfactory

Tolerance limit of temperature should be less than ±2.0 (°C)

#### ~ CONTINUED ON NEXT PAGE ~

#### Remark(s): -

The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.

(b) 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. (c)
- "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 (d) (e)
- international standards.

LEE Chun-ning, Desmond Senior Chemist



Report No.	:	BA030040
Date of Issue	:	11 March 2021
Page No.	:	2 of 2

#### PART D - CALIBRATION RESULTS (Cont'd)

#### (3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
1.50	1.23	-0.27	Satisfactory
4.66	4.21	-0.45	Satisfactory
7.04	6.75	-0.29	Satisfactory
8.48	8.28	-0.20	Satisfactory

Tolerance limit of dissolved oxygen should be less than  $\pm 0.50$  (mg/L)

#### (4) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.77	-2.30	Satisfactory
20	20.25	1.25	Satisfactory
30	30.90	3.00	Satisfactory

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

#### (5) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.00		Satisfactory
10	10.9	9.0	Satisfactory
20	20.5	2.5	Satisfactory
100	101	1.0	Satisfactory
800	782	-2.3	Satisfactory

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

~ END OF REPORT ~

<u>Remark(s): -</u>

⁰ "Displayed Reading" presents the figures 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.



Report No.
Date of Issue
Page No.

AJ120011 • 04 December, 2020 . 1 of 2

#### PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited Unit C, 11/F, Ford Glory Plaza 37-39 Wing Hong Street Cheung Sha Wan, Kowloon, Hong Kong Attn: Mr. Nelson TSUI

#### PART B - DESCRIPTION

Name of Equipment	: YSI ProDSS Multi Parameters
Manufacturer	: YSI (a xylem brand)
Serial Number	: 15M101091
Date of Received	: Nov 30, 2020
Date of Calibration	: Dec 04, 2020
Date of Next Calibration(a)	: Mar 03, 2021

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

Parameter	Reference Method
pH at 25°C	APHA 21e 4500-H ⁺ B
Dissolved Oxygen	APHA 21e 4500-O G
Salinity	APHA 21e 2520 B
Turbidity	APHA 21e 2130 B
Temperature	Section 6 of international Accreditation New Zealand Technical
	Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

#### PART D - CALIBRATION RESULTS^(b,c)

#### (1) pH at 25°C

Target (pH unit)	Displayed Reading ^(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	4.12	0.12	Satisfactory
7.42	7.32	-0.10	Satisfactory
10.01	10.12	0.11	Satisfactory

Tolerance of pH should be less than ±0.20 (pH unit)

#### (2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
9	8.6	-0.40	Satisfactory
24	23.2	-0.80	Satisfactory
36	35.3	-0.70	Satisfactory

Tolerance limit of temperature should be less than ±2.0 (°C)

~ CONTINUED ON NEXT PAGE ~

#### Remark(s): -

The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.

(b) 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. (c)

(d)

LEE Chun-ning, Desmond

Senior Chemist

[&]quot;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 (e) international standards.



Report No.	:	AJ120011
Date of Issue	:	04 December, 2020
Page No.	:	2 of 2

#### PART D - CALIBRATION RESULTS (Cont'd)

#### (3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.00	0.28	0.28	Satisfactory
2.98	2.52	-0.46	Satisfactory
5.88	5.81	-0.07	Satisfactory
8.48	8.05	-0.43	Satisfactory

Tolerance limit of dissolved oxygen should be less than  $\pm 0.50$  (mg/L)

#### (4) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	10.03	0.30	Satisfactory
20	21.02	5.10	Satisfactory
30	29.50	-1.67	Satisfactory

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

#### (5) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	-0.67		Satisfactory
10	10.09	0.9	Satisfactory
20	19.32	-3.4	Satisfactory
100	104.00	4.0	Satisfactory
800	822.41	2.8	Satisfactory

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

~ END OF REPORT ~

Remark(s): -

"Displayed Reading" presents the figures 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 (g) international standards.



Report No.	
Date of Issue	
Page No.	

BA020038 24 February 2021 1 of 2

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#### PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited Unit C, 11/F, Ford Glory Plaza 37-39 Wing Hong Street Cheung Sha Wan, Kowloon, Hong Kong Attn: Mr. Nelson TSUI

#### PART B - DESCRIPTION

Name of Equipment	:	Multi Water Quality Checker U-53
Manufacturer	:	Horiba
Serial Number		UHB5F2BB
Date of Received		Feb 10, 2021
Date of Calibration	:	Feb 24, 2021
Date of Next Calibration(a)	1	May 24, 2021

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

Parameter	Reference Method
pH at 25°C	APHA 21e 4500-H ⁺ B
Dissolved Oxygen	APHA 21e 4500-O G
Salinity	APHA 21e 2520 B
Turbidity	APHA 21e 2130 B
Temperature	Section 6 of international Accreditation New Zealand Technical
	Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

#### PART D - CALIBRATION RESULTS^(b,c)

#### (1) pH at 25°C

Target (pH unit)	Displayed Reading ^(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	4.06	0.06	Satisfactory
7.42	7.44	0.02	Satisfactory
10.01	9.95	-0.06	Satisfactory

Tolerance of pH should be less than ±0.20 (pH unit)

#### (2) Temperature

Reading of Ref. thermometer	Displayed Reading (°C)	Tolerance (°C)	Results
17	17.24	0.24	Satisfactory
24	24.16	0.16	Satisfactory
34	34.17	0.17	Satisfactory

Tolerance limit of temperature should be less than ±2.0 (°C)

#### ~ CONTINUED ON NEXT PAGE ~

#### <u>Remark(s): -</u>

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 (b)

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

"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 (d)

(e) international standards.

LEE Chun-ning, Desmond

Senior Chemist



Report No.	:	BA020038
Date of Issue	:	24 February 2021
Page No.	1	2 of 2

#### PART D - CALIBRATION RESULTS (Cont'd)

#### (3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results Satisfactory	
0.45	0.00	-0.45		
2.10 1.95		-0.15	Satisfactory	
4.40	3.99	-0.41	Satisfactory	
8.59	8.11	-0.48	Satisfactory	

Tolerance limit of dissolved oxygen should be less than ±0.50 (mg/L)

#### (4) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results Satisfactory	
10	9.16	-8.40		
20 18.39		-8.05	Satisfactory	
30	28.11	-6.30	Satisfactory	

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

#### (5) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results	
0	0 0.95		Satisfactory	
10	10.8	8.0	Satisfactory	
20	21.6	8.0	Satisfactory	
100	98.0	-2.0	Satisfactory	
800 754		-5.8	Satisfactory	

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

~ END OF REPORT ~

<u>Remark(s): -</u> ⁽¹⁾ "Displayed Reading" presents the figures 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 (g) relevant international standards.



# Appendix O

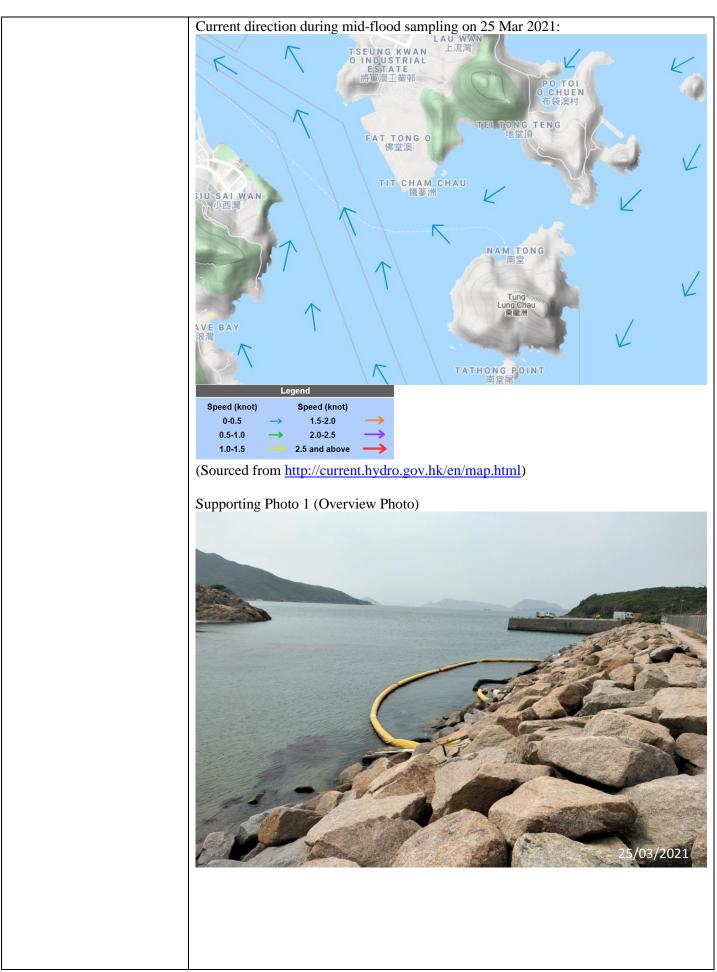
# Exceedance Report(s)

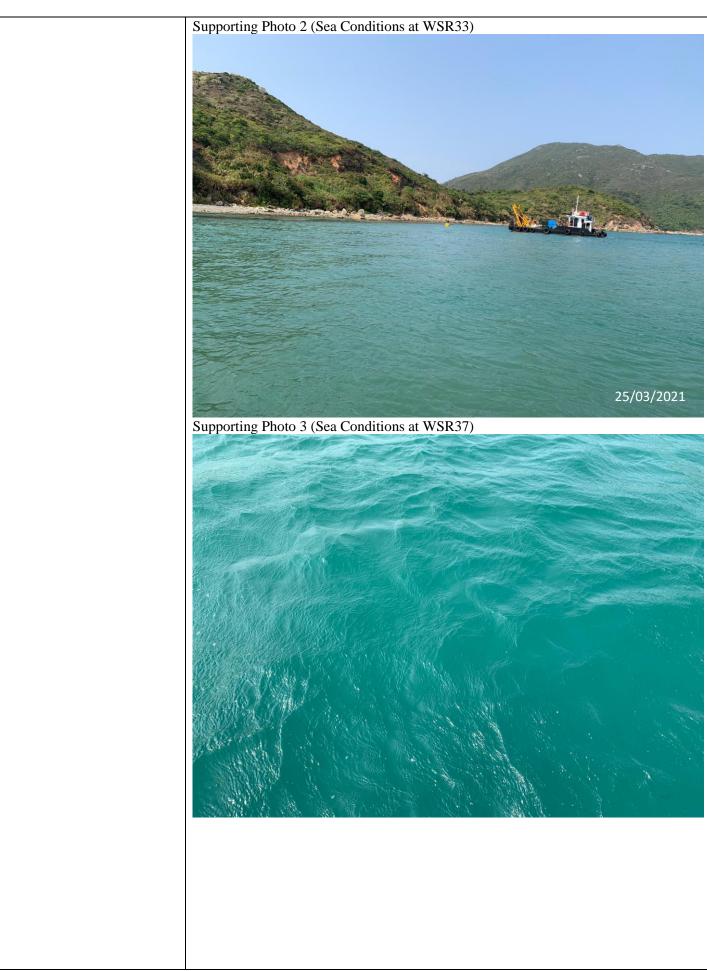
#### Incident Report on Action Level or Limit Level Non-Compliance

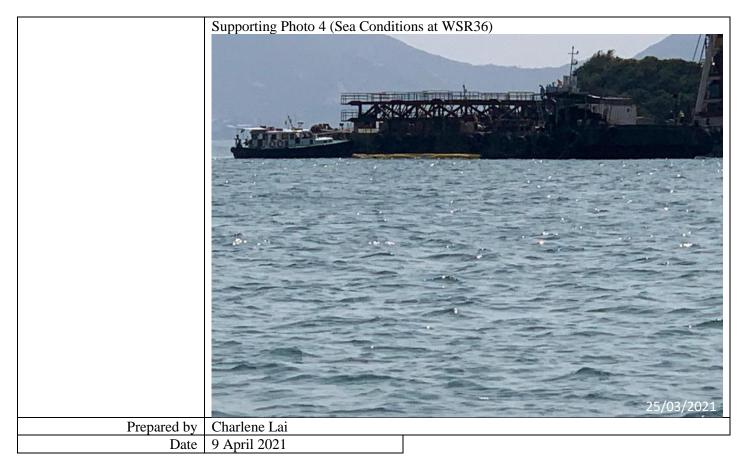
Project	Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant				
Date	25 Mar 2021 (Lab result received on 01 Apr 2021)				
Time	08:45 – 12:15 (Mid Ebb) and 13:45 – 17:15 (Mid-Flood)				
	Mid-Ebb				
Monitoring Location	WSR33 and WSR37	Clear Water Bay	Key Water Gushy Monitoring Strian		
Parameter	Suspended Solid (SS)	¢.	N Kilometras 1 2		
Action & Limit Levels	Action Level	Limit Level			
	> 5.6 mg/L	> 6.1 mg/L			
Measurement Level	Impact Station(s) of Exceedance 5.7 mg/L (WSR 33) 6.3 mg/L (WSR 37)	Control Stations 4.7 mg/L (CE)	Impact Station(s) without           Exceedance           3.6 mg/L (WSR1)           3.4 mg/L (WSR2)           3.6 mg/L (WSR3)           3.9 mg/L (WSR3)           3.9 mg/L (WSR4)           5.0 mg/L (WSR16)           5.3 mg/L (WSR36)		
Possible reason for Action or Limit Level Non-compliance	<ul> <li>Marine construction activities, namely 1) Setting up silt curtains (~ 20m) by lighter and divers; 2) welding on temporary steel platform; and 3) setting up of vibratory hammer on barge, were conducted on-site at the Intake Shaft area (near to work station WSR36) on 25 Mar 2021. The conducted marine construction activities were noted to be with preparation nature, mostly without contact with the water and would not contribute to SS generation. No marine construction activity was conducted at the Outfall Shaft area (near to work station WSR37).</li> <li>Marine construction activities with contact with water: 1) Setting up silt curtains by lighter and divers.</li> <li>Marine vessels on 25th March 2021</li> <li>Derrick lighter x 2</li> <li>Flat-top barge x 1</li> <li>Passenger boat x 2</li> <li>Dominating sea current direction was found to be from Northwest to Southeast at waters</li> </ul>				
	to the west side of Tit Cham Tit Cham Chau.	Chau; and from West to Ea	ast at waters to the east side of		

	Work stations WSR33 and WSR37 are located at downstream and upstream direction during ebb tide respectively. The SS value at station WSR36 (5.3 mg/L), which is the closest station to the area with marine construction activities, was lower than that of WSR33 (5.7 mg/L) and WSR37 (6.3 mg/L) at the same tide. Considering the SS value at station WSR36 has not exceeded the action and limit level, there is no direct evidence indicating that the SS exceedance of WSR33 and WSR37 were related to the marine construction activities near the Intake Shaft area. According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site. Conditions of the protective silt curtain at the inland water outfall was satisfactory on 25 Mar 2021.			
	Mid-F	Flood		
Monitoring Location	WSR36 and WSR37			
	HONG KONG ISLAND Tai Tam	Clear Water Bay WSR37 WSR37 WSR4 WSR47 WSR4 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR47 WSR4		
	Con	ČF 0	Kilometres 1 2 Indicative Location of Seawater Intake	
Parameter	Suspended Solid (SS)			
Action & Limit Levels	Action Level	Limit Le	aval	
	> 5.0  mg/L	> 6.0 m		
Measurement Level	Impact Station(s) of	Control Stations	Impact Station(s) without	
	Exceedance		Exceedance	
	5.2 mg/L (WSR 36)	2.7 mg/L (CF)	3.3 mg/L (WSR1)	
	5.3 mg/L (WSR 30)	2.7  mg/L (CF)	3.4  mg/L (WSR1)	
			3.7 mg/L (WSR2)	
			4.0  mg/L (WSR4)	
			4.4 mg/L (WSR16)	
			4.8 mg/L (WSR33)	
Possible reason for Action or	Marine construction activitie	es, namely 1) Setting up	silt curtains (~20m) by lighter and	
Limit Level Non-compliance	divers; 2) welding on tempo on barge, were conducted or on 25 Mar 2021. The condu- preparation nature, mostly w	orary steel platform; and n-site at the Intake Shaft a ucted marine constructio without contact with the onstruction activity was o	3) setting up of vibratory hamme area (near to work station WSR36 n activities were noted to be with water and would not contribute to conducted at the Outfall Shaft are	

	Marine construction activities with contact with water: 1) Setting up silt curtains by lighter and divers.	у
	<ul> <li>Marine vessels on 25th March 2021</li> <li>Derrick lighter x 2</li> <li>Flat-top barge x 1</li> <li>Passenger boat x 2</li> </ul>	
	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.	
	Work stations WSR36 and WSR 37 are located at upstream and downstream direction during flood tide respectively. The SS value at upstream (5.2 mg/L) was lower than that of downstream (5.3 mg/L). Considering that no SS generating activities was conducted near the Intake and Outfall Shaft Area, there is no direct evidence indicating that the SS exceedance of WSR36 and WSR37 were related to the Project activities near the Intake Shaft Area.	ut d S
	According to the field observation by sampling team during sampling event, no sile plume was observed in the Project site.	t
	Conditions of the protective silt curtain at the inland water outfall was satisfactory on 25 Mar 2021.	
Remarks	Current direction during mid-ebb sampling on 25 Mar 2021: SHEUNG LAU WAN D INDUSTRIAL ESTATE 將重澳工業報 Fat TONG 0 Fat TONG 0	Ł
	siu sai wan 小西灣 → K	
	NAM TONG 南堂 レロロChang レロロChang	
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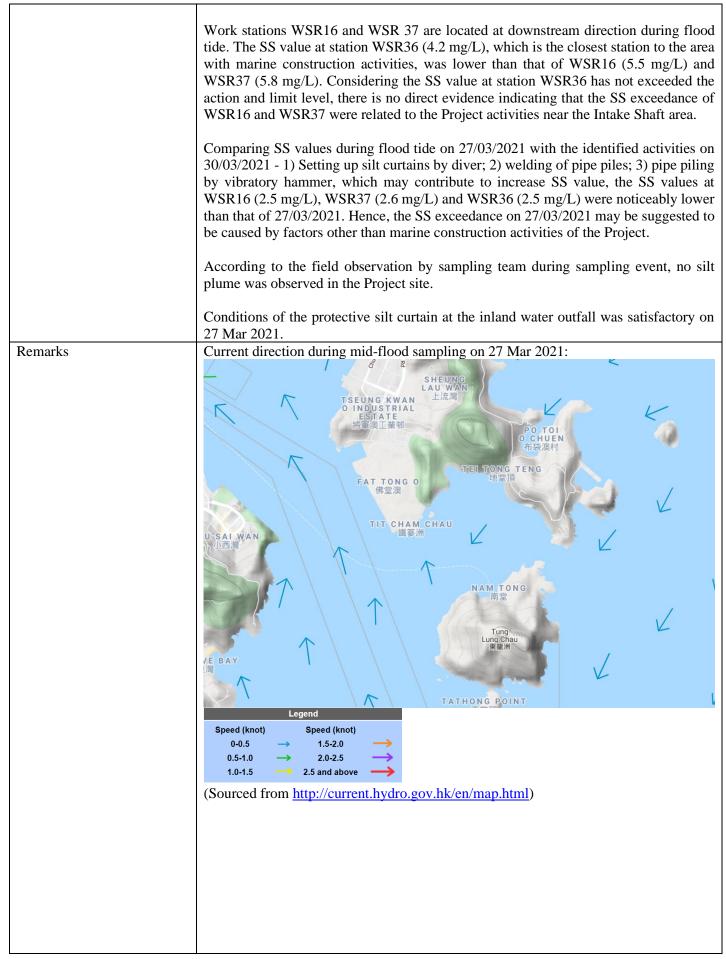


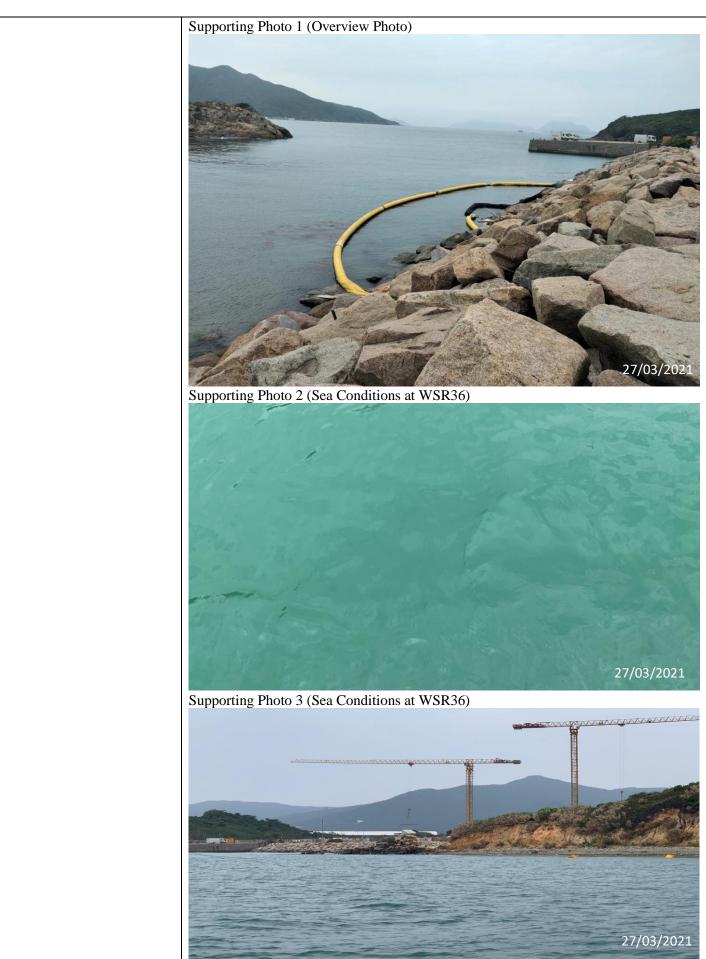


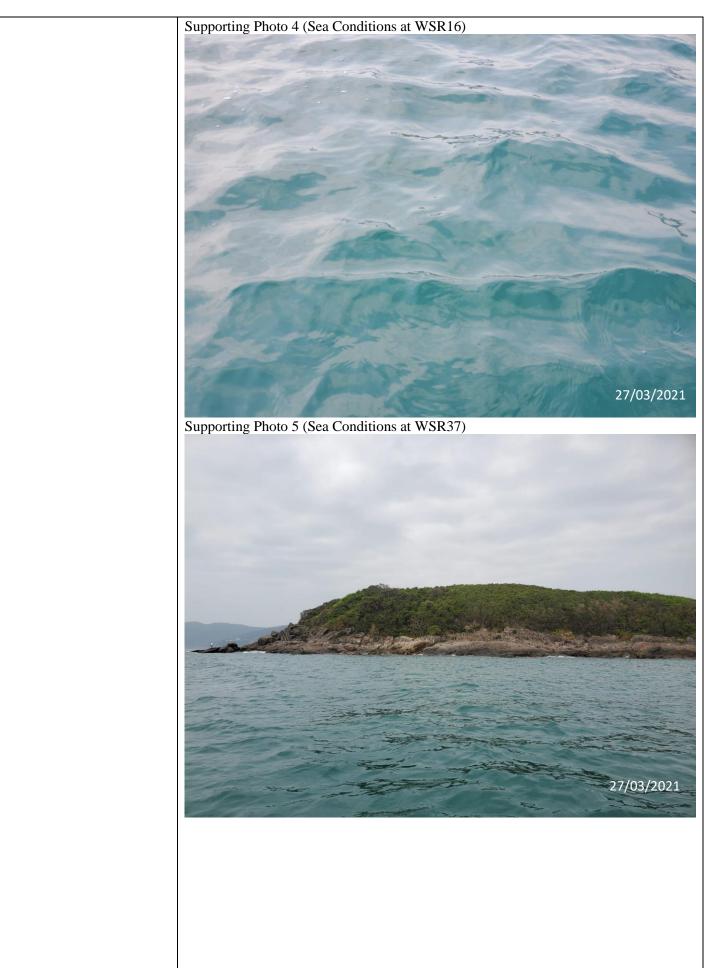


#### Incident Report on Action Level or Limit Level Non-Compliance

Project	Design, Build and Operate Fi	irst Stage of Ts	eung Kwan O I	Desalination Plant	
Date	27 Mar 2021 (Lab result received on 01 Apr 2021)				
Time	15:19 – 18:49 (Mid-Flood)				
	Mid-Flood				
Monitoring Location	WSR16 and WSR37				
	HONG KONG ISLAND Tai Tam	NER NER	Clear Water Bay WSR33 WSR36 WSR4 WSR4 WSR4 UNR Lung Lung Lung Chau		
Parameter	Suspended Solid (SS)	⊂ CF		Key Water Quality Montering Station Examined title to Deadhartion Pilet Completes 1 2	
Action & Limit Levels	Action Level		Limit Lanal		
Action & Linnt Levels	> 5.0  mg/L		Limit Level > 6.0 mg/L		
Measurement Level	Impact Station(s) of Exceedance 5.5 mg/L (WSR 16) 5.8 mg/L (WSR 37)	Control Stati 3.0 mg/L (Cl	ons	Impact Station(s) without Exceedance 3.0 mg/L (WSR1) 2.8 mg/L (WSR2) 3.4 mg/L (WSR3) 4.1 mg/L (WSR3) 4.8 mg/L (WSR33) 4.2 mg/L (WSR36)	
Possible reason for Action or Limit Level Non-compliance	<ul> <li>Marine construction activities, namely 1) Setting up silt curtains by divers (~20m); 2) materials loading/ unloading; and 3) welding on temp. steel platform, were conducted on-site at the Intake Shaft area (near to work station WSR36) on 25 Mar 2021. The conducted marine construction activities were noted to be with preparation nature, mostly without contact with the water and would not contribute to SS generation. No marine construction activity was conducted at the Outfall Shaft area (near to work station WSR37).</li> <li>Marine construction activities with contact with water: 1) Setting up silt curtains by divers</li> <li>Marine vessels on 27th March 2021</li> <li>Derrick lighter x 2</li> <li>Flat-top barge x 1</li> <li>Passenger boat x 2</li> </ul>				
	to the west side of Tit Cham east side of Tit Cham Chau.	Chau; and fro	om Northeast to	Southwest at waters to the	







	SS data of water monitoring on 30 Mar 2021:					
		Locations	SS (flood average)	SS (ebb average)	SS (flood exceed)	SS (ebb exceed)
		WSR1	2.5	3.4	No	No
		WSR2	2.5	2.6	No	No
		WSR3	2.5	2.5	No	No
		WSR4	2.5	2.5	No	No
	(ebb control)	CE	2.7	3.2		
	(flood control)	CF	2.5	2.7		
		WSR16	2.5	2.5	No	No
		WSR33	2.5	2.7	No	No
		WSR36	2.5	2.6	No	No
		WSR37	2.6	2.6	No	No
			Action level	Limit level		
		CE (ebb)	5.0	6.0		
		CF (flood)	5.0	6.0		
Prepared by	Charlene Lai					
Date	9 April 2021					