

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: HKWSD202/50/107308

Date: 17 May 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 Verification of Monthly EM&A Report No.14 (April 2021)

We refer to emails of 12 and 14 May 2021 attaching Monthly EM&A Report No.14 (April 2021) for the captioned project prepared by the ET.

We have no further comments and hereby verify the Monthly EM&A Report No.14 (April 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







Website: www.acuityhk.com Unit C, 11/F, Ford Glory Plaza, Nos. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon.

Tel. : (852) 2698 6833 Fax.: (852) 2698 9383



Contract No. 13/WSD/17

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

Monthly EM&A Report No.14 (Period from 1 April to 30 April 2021)

| Document No. | | | | | | |
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| | Prepared by: | Reviewed by: | Certified by: |
|-----------|--------------------|--------------------|--------------------|
| Name | Charlene LAI | Nelson TSUI | Jacky LEUNG |
| Position | Environmental Team | Environmental Team | Environmental Team |
| POSICIOII | Member | Member | Leader |
| Signature | All | A | A |
| Date: | 14/05/2021 | 14/05/2021 | 14/05/2021 |



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| REV. | Description of Modification | DATE |
|------|------------------------------------|-------------|
| А | First Issue for Comments | 14 May 2021 |



Contract No. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Monthly EM&A Report No.14

CONTENTS

| Exe | cutive Summary1 |
|-----|---|
| 1. | Basic Project Information |
| 2. | Noise |
| 3. | Water Quality |
| 4. | Waste |
| 5. | Landfill Gas Monitoring |
| 6. | Summary of Monitoring Exceedance, Complaints, Notification of Summons and Prosecutions.26 |
| 7. | EM&A Site Inspection |
| 8. | Future Key Issues |
| 9. | Conclusions and Recommendations |

| 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 O | 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 14th 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 April 2021 to 30 April 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;
- Construction of ActiDAFF perimeter wall and water tank;
- Construction of RO / electrical building ground floor slab and columns;
- Construction of 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;
- Welding on temporary steel platform by derrick lighter at Intake Shaft

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

- Construction dust and noise generation from marine construction works, excavation works, ELS installation works and construction 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 marine 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. Eleven (11) of the general water quality monitoring results of suspended solids (SS) obtained had exceeded the Action Level. None (0) 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 06/04, 13/04 and 29/04 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 7, 13, 20 and 30 April 2021 to audit the mitigation measures implementation status. Bi-weekly joint site inspection was carried out on 13 & 30 April 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 followings:
 - Land Survey;
 - Construction of ActiDAFF perimeter wall and water tank;
 - Construction of RO/electrical building ground floor slab and columns;
 - Construction of Product Water Storage Tank perimeter wall and elec. building 's cable trench;
 - Backfilling around Product Water Storage Tank;
 - Construction of Post Treatment Building Footing;
 - Construction of Ground Floor Slab 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;
 - Excavation & lateral support for Pump House;
 - Wan Po Road Sewage Works TTA, excavation and laying HDPE pipe
 - Welding on temporary steel platform by derrick lighter at Intake Shaft

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

- Construction dust and noise generation from excavation and construction works, pipe mainlaying works and marine 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 temporary 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 14th Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 April to 30 April 2021.

1.3. PROJECT ORGANIZATION

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

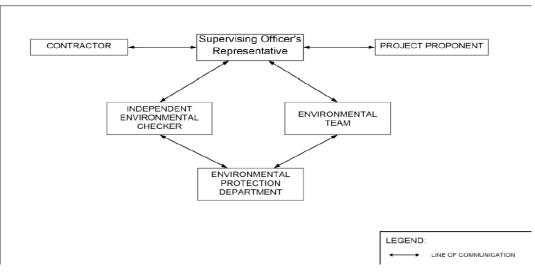


Figure 1.1Project Organization Chart



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 1.1Contact 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 followings:

- Land Survey;
- Construction of ActiDAFF perimeter wall and water tank;
- Construction of RO / electrical building ground floor slab and columns;
- Construction of 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;
- Welding on temporary steel platform by derrick lighter at Intake Shaft

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/ Notification | Reference | Validity Period | Remarks |
|--|---------------------|----------------------------|---------|
| Environmental Permit | FEP – 01/503/2015/A | Throughout the Contract | |
| Notification of Construction Works under the Air Pollution Control (Construction Dust) Regulation (Form NA) | Ref. No.: 451539 | 30/12/2019 – 30/03/2023 | |
| Wastewater Discharge Licence (land-based) | WT00035775-2020 | 24/07/2020 - 31/07/2025 | |
| Chemical Waste Producer Registration | 5213-839-A2987-01 | Throughout the Contract | |
| Construction Noise Permit (24 hrs) | GW-RE0337-21 | 02/04/2021- 30/04/2021 | |
| Billing Account for Disposal of Construction Waste | 7036276 | Throughout the Contract | |

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| Permit/ Licenses/ Notification | Reference | Validity Period | Remarks |
|-----------------------------------|--------------|-----------------|---------|
| Dumping at Sea | EP/MD/21-102 | 25/03/2021 - | |
| Ordinance (DASO) | | 30/06/2021 | |
| Permit (Category L) | | | |

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 |
|-----------|---|
|-----------|---|

| 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. Construction works would follow stipulations of the valid Construction Noise Permits if works had to be conducted during restricted hours or public holidays.

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

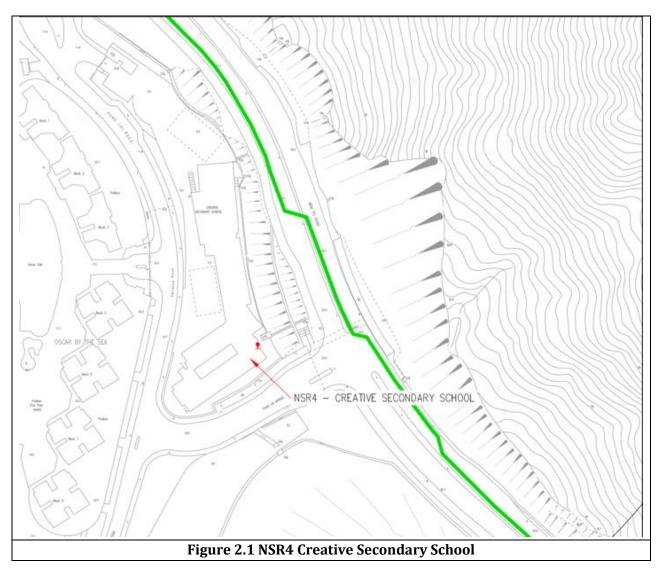
According to the environmental findings detailed in the EIA report and Baseline Monitoring Report, the designated locations for the construction noise monitoring are listed in **Table 2.2** below.



| 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 |
|-------|-----|--------|-----------|-------------|
| Tuble | | 110150 | Jensiere | ILCCLIVEI 5 |

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 |
|-----------|---|
|-----------|---|

| Time Period | | Action | | Li | mit (dB(A) |) |
|--------------------------|--------|--|--|----|--------------------------------------|--------|
| 0700-1900 on weekdays | normal | When one complaint is rece one of the n receivers | documented eived from any oise sensitive | 65 | A) for scho dB(A) nation perio | during |

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.

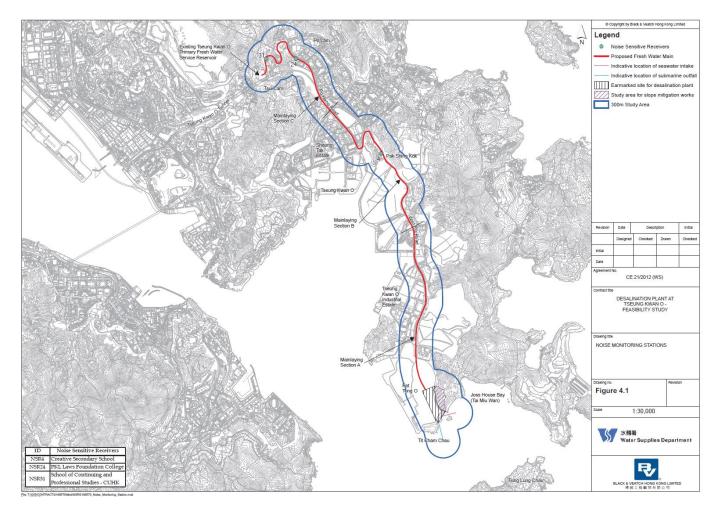


Figure 2.4 Site Layout Plan with Noise Sensitive Receivers and Desalination Plant

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.

With the onset of marine dredging activities in late April at Outfall Shaft Area, a silt curtain efficiency test has been conducted at the Outfall Shaft Area on 16th April 2021 at 6 monitoring intervals (08:00, 10:00, 12:00, 14:00, 16:00, 18:00). The baseline monitoring event has been conducted on 10th April 2021 at 5 monitoring locations. Testing protocols and methodologies had followed the guidelines as presented in the EM&A Manual *Annex C*. Detailed analysis of in-situ and laboratory data would be presented in a separate report.

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 | | | | | |
| 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 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

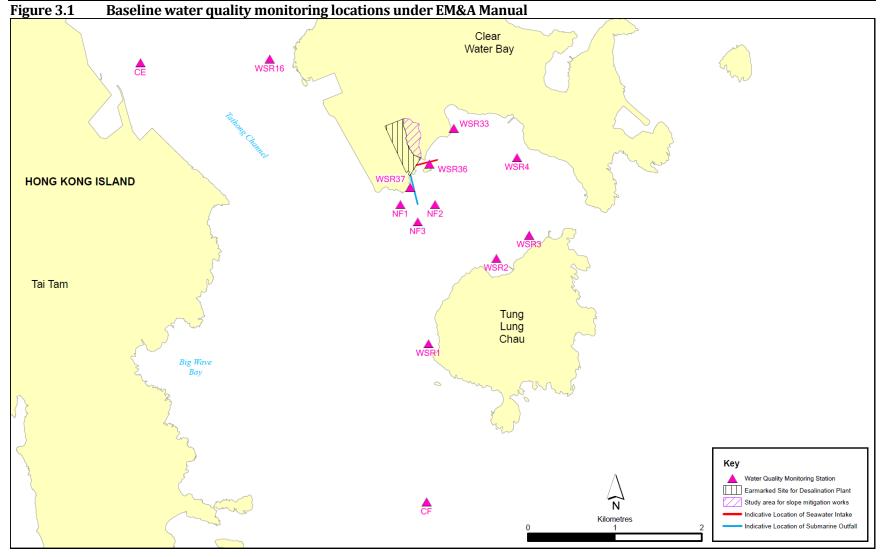
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WSR1 to WSR37 were identified in accordance with Annex 14 of the EIAO-TM as well as Clause 3.4.4.2 of the Environmental Impact Assessment Study Brief for Desalination Plant at Tseung Kwan O (No. ESB-266/2013). WSR1 to WSR3 are sited near the Tung Lung 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.14





Contract No. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant Monthly EM&A Report No.14



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 conducted in March and April 2021 respectively.



Table 3.4Criteria of Action and Limit Levels for Water Quality

| Parameters | Action | Limit | | | | |
|---------------------|---|---|--|--|--|--|
| Construction Phase | Construction Phase Impact 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 | | | | |
| | 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- | \geq 95 %-ile of baseline data or 20% | \geq 99 %-ile of baseline data or 30% | | | | |
| averaged) | exceedance of value at any impact | exceedance of value at any impact | | | | |
| averageuj | station compared with | station compared with corresponding | | | | |
| | - | data from control station | | | | |
| | corresponding data from control | | | | | |
| | station | | | | | |
| Turbidity in NTU | ≥ 95 %-ile of baseline data or 20% | ≥ 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 | | | | | |
| D0 in mg/L | Surface and Middle | Surface and Middle | | | | |
| | 5%-ile of baseline data for surface | 4 mg L ⁻¹ | | | | |
| | and middle layer | | | | | |
| | <u>Bottom</u> | 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 | | | | |



| Montiny LM&A Repo | | |
|--------------------|---|---|
| | 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 | \ge 95 %-ile of baseline data or 20% | ≥ 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/I | | 0.3 mgL ⁻¹ |
| Iron in mg/L | 0.3 mgL ⁻¹ | 0.5 IIIgL ⁻¹ |
| (Depth-averaged) | | |
| | | |



Table 3.5Derived Action and Limit Levels for Water Quality

| Parameters | Action | Limit |
|--------------------|---|---|
| Construction Phas | | |
| | | |
| 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) | 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} | |
| | | C. C I.M. I.I. |
| 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 |
| | | |



| Montility EMAA Report No.14 constructioned | | | | | | | |
|--|----------------------------------|--------------------------------|--|--|--|--|--|
| 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, 6, 8, 10, 13, 15, 17, 20, 22, 24, 27 and 29 April 2021.

During the impact monitoring period for April 2021, eleven (11) of the general water quality monitoring results of suspended solids (SS) obtained had exceeded the Action Level. None (0) 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 06/04, 13/4 and 29/04 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**.

| | | Parameters | | | | | | | | | |
|-----------|------|----------------|---------------------|--------------|------|-----------|---------------|-----------|--|--|--|
| Locations | | Salinity (ppt) | Dissolved Ox | xygen (mg/L) | pН | Turbidity | Suspended | Temp.(°C) | | | |
| | | Summey (ppt) | Surface & Middle | Bottom | | (NTU) | Solids (mg/L) | remp.(c) | | | |
| | Avg. | 30.53 | 8.71 | 8.64 | 8.34 | 3.3 | 3.13 | 24.9 | | | |
| CE | Min. | 19.87 | 7.38 | 7.56 | 8.06 | 1.6 | 2.50 | 22.7 | | | |
| | Max. | 32.41 | 9.91 | 9.93 | 8.78 | 5.2 | 7.50 | 29.0 | | | |
| | Avg. | 30.70 | 8.66 | 8.73 | 8.32 | 3.5 | 3.17 | 24.7 | | | |
| CF | Min. | 26.85 | 7.54 | 7.64 | 8.01 | 2.1 | 2.50 | 22.2 | | | |
| | Max. | 32.47 | 9.86 | 9.76 | 8.79 | 5.6 | 9.30 | 28.9 | | | |
| | Avg. | 30.66 | 8.81 | 9.01 | 8.33 | 2.4 | 3.12 | 24.7 | | | |
| WSR1 | Min. | 27.01 | 7.52 | 7.96 | 8.01 | 1.6 | 2.50 | 22.4 | | | |
| | Max. | 32.07 | 9.96 | 10.12 | 8.80 | 3.3 | 5.20 | 28.9 | | | |
| А | Avg. | 30.62 | 8.68 | 8.61 | 8.32 | 2.4 | 3.43 | 24.7 | | | |
| WSR2 | Min. | 26.79 | 7.72 | 7.79 | 8.01 | 1.6 | 2.50 | 22.4 | | | |
| | Max. | 32.46 | 9.67 | 9.45 | 8.71 | 3.1 | 6.70 | 28.9 | | | |
| | Avg. | 30.66 | 8.68 | 8.75 | 8.31 | 2.4 | 3.37 | 24.7 | | | |
| WSR3 | Min. | 27.00 | 7.69 | 7.59 | 8.03 | 1.6 | 2.50 | 22.4 | | | |
| | Max. | 32.33 | 9.85 | 9.79 | 8.80 | 3.2 | 6.90 | 29.0 | | | |
| | Avg. | 30.68 | 8.89 | 8.73 | 8.32 | 2.4 | 3.65 | 24.8 | | | |
| WSR4 | Min. | 26.89 | 7.93 | 7.48 | 8.02 | 1.4 | 2.50 | 22.4 | | | |
| | Max. | 32.32 | 9.91 | 9.97 | 8.75 | 3.4 | 8.00 | 29.0 | | | |
| | Avg. | 30.60 | 8.68 | 8.81 | 8.32 | 2.5 | 3.56 | 24.9 | | | |
| WSR16 | Min. | 25.37 | 7.36 | 7.71 | 8.05 | 1.6 | 2.50 | 22.6 | | | |
| | Max. | 32.30 | 9.73 | 9.65 | 8.80 | 4.0 | 7.00 | 29.0 | | | |
| | Avg. | 30.70 | 8.73 | 8.72 | 8.33 | 2.5 | 3.45 | 24.8 | | | |
| WSR33 | Min. | 26.95 | 7.55 | 7.48 | 8.05 | 1.6 | 2.50 | 22.5 | | | |
| | Max. | 32.42 | 10.12 | 10.13 | 8.73 | 3.2 | 10.10 | 29.0 | | | |
| WSR36 | Avg. | 30.65 | 8.66 | 8.74 | 8.31 | 2.5 | 3.39 | 24.9 | | | |
| | Min. | 24.50 | 6.76 | 7.22 | 8.01 | 1.7 | 2.50 | 22.6 | | | |
| | Max. | 32.43 | 10.06 | 9.93 | 8.74 | 4.5 | 6.90 | 28.9 | | | |
| | Avg. | 30.67 | 8.75 | 8.70 | 8.32 | 2.4 | 3.55 | 24.9 | | | |
| WSR37 | Min. | 26.80 | 7.48 | 7.60 | 8.02 | 1.5 | 2.50 | 22.6 | | | |
| | Max. | 32.19 | 9.74 | 9.66 | 8.75 | 3.5 | 6.60 | 29.0 | | | |

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.

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



| | | | | | Parameter | 'S | | |
|-----------|------|----------------|----------------------------|-------|-----------|-----------|----------------------------|-----------|
| Locations | | Salinity (ppt) | Dissolved Oxygen (mg/L) | | рН | Turbidity | Suspended Solids (mg/L) | Temp.(°C) |
| | | | Surface & Bottom Middle | | | (NTU) | | |
| | Avg. | 30.49 | 8.77 | 8.78 | 8.31 | 3.4 | 2.98 | 25.1 |
| CE | Min. | 26.78 | 7.45 | 7.48 | 7.95 | 2.7 | 2.50 | 23.0 |
| | Max. | 32.32 | 9.98 | 10.13 | 8.66 | 4.6 | 5.70 | 29.0 |
| | Avg. | 30.60 | 8.78 | 8.77 | 8.31 | 3.2 | 3.11 | 25.2 |
| CF | Min. | 27.17 | 7.65 | 7.58 | 7.97 | 1.6 | 2.50 | 23.0 |
| | Max. | 32.30 | 10.05 | 10.05 | 8.72 | 4.6 | 7.50 | 28.9 |
| | Avg. | 30.56 | 8.70 | 8.84 | 8.31 | 2.4 | 3.16 | 25.3 |
| WSR1 | Min. | 26.76 | 7.45 | 7.49 | 8.02 | 1.6 | 2.50 | 23.1 |
| | Max. | 32.21 | 9.81 | 9.78 | 8.71 | 3.5 | 5.70 | 28.8 |
| WSR2 Mi | Avg. | 30.51 | 8.84 | 8.81 | 8.32 | 2.4 | 2.97 | 25.2 |
| | Min. | 27.35 | 7.66 | 7.79 | 7.96 | 1.6 | 2.50 | 23.1 |
| | Max. | 32.35 | 9.79 | 10.14 | 8.72 | 3.4 | 5.80 | 28.9 |
| | Avg. | 30.47 | 8.83 | 8.73 | 8.32 | 2.5 | 3.20 | 25.2 |
| WSR3 | Min. | 26.95 | 7.53 | 7.59 | 7.97 | 1.5 | 2.50 | 23.1 |
| | Max. | 31.94 | 10.18 | 9.69 | 8.70 | 3.4 | 8.80 | 28.9 |
| | Avg. | 30.51 | 8.82 | 8.87 | 8.30 | 2.5 | 3.09 | 25.2 |
| WSR4 | Min. | 26.88 | 7.76 | 7.58 | 7.95 | 1.6 | 2.50 | 23.1 |
| | Max. | 32.29 | 10.06 | 9.91 | 8.75 | 3.4 | 5.40 | 28.8 |
| | Avg. | 30.57 | 8.81 | 8.74 | 8.32 | 2.5 | 3.29 | 25.2 |
| WSR16 | Min. | 26.94 | 7.61 | 7.77 | 7.97 | 1.6 | 2.50 | 23.1 |
| | Max. | 32.42 | 10.05 | 10.04 | 8.68 | 3.3 | 7.20 | 29.0 |
| | Avg. | 30.52 | 8.75 | 8.86 | 8.30 | 2.5 | 3.52 | 25.2 |
| WSR33 | Min. | 26.96 | 7.62 | 7.80 | 7.99 | 1.6 | 2.50 | 23.2 |
| | Max. | 32.41 | 10.17 | 10.12 | 8.66 | 3.3 | 12.70 | 28.9 |
| WSR36 | Avg. | 30.53 | 8.81 | 8.61 | 8.31 | 2.4 | 3.25 | 25.2 |
| | Min. | 26.74 | 7.50 | 7.60 | 8.08 | 1.4 | 2.50 | 23.1 |
| | Max. | 32.29 | 10.19 | 9.48 | 8.70 | 3.6 | 6.00 | 28.9 |
| | Avg. | 30.54 | 8.77 | 8.79 | 8.32 | 2.4 | 3.27 | 25.2 |
| WSR37 | Min. | 26.86 | 7.43 | 7.67 | 8.02 | 1.6 | 2.50 | 23.1 |
| | Max. | 32.23 | 9.99 | 9.99 | 8.67 | 3.2 | 5.90 | 29.0 |

| Table 3.7 Summary of Impact Water Quality Monitor | ing Results (Mid-Ebb) |
|---|-----------------------|
|---|-----------------------|

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.

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



4. WASTE

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 April 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) | |
| April 2021* | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 28.931 | 0.057 | 0.002 | 0.000 | 89.450 | |

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:

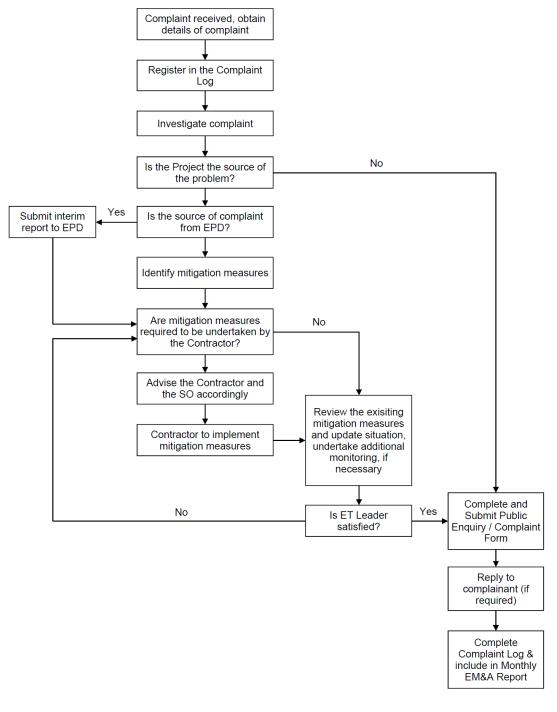


Figure 6.1 Environmental Complaint Handling Procedures

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, 6, 8, 10, 13, 15, 17, 20, 22, 24, 27 and 29 April 2021.

Eleven (11) of the general water quality monitoring results of suspended solids (SS) obtained had exceeded Action Level. None (0) 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 06/04, 13/04 and 29/04 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**.

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 7, 13, 20 and 30 April 2021 at the site portions list in **Table 7.1** below.

| Date | Inspected Site Portion | Time |
|---------------|------------------------|---------------|
| 07 April 2021 | TKO 137 | 14:25 - 17:30 |
| 13 April 2021 | TKO 137 | 14:30 - 17:00 |
| 20 April 2021 | TKO 137 | 14:35-17:00 |
| 30 April 2021 | TKO 137 | 09:00-12:30 |

Table 7.1Summaries of Site Inspection Record

Two joint site inspection with IEC were carried out on 13 & 30 April 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 |
|---------------|--|------------------|
| 07 April 2021 | <u>Observation(s) and Recommendation(s)</u> 1. No major observations were reported on the respective day. 2. The Main Contractor was reminded that water spraying should be implemented during dusty construction works to limit dust emission (general) (reminder). 3. The Main Contractor was reminded that chemical wastes should be collected separately from other general wastes (Combined Shaft Area) (reminder). 4. The Main Contractor was reminded to increase the capacity of the wastewater collection area to prevent overflow of untreated wastewater from the construction area (Combined Shaft Area) (reminder). | Nil. |
| 13 April 2021 | <u>Observation(s) and Recommendation(s)</u> 1. No major observations were reported on the respective day, | Nil. |
| 20 April 2021 | <u>Observation(s) and Recommendation(s)</u> 1. No major observations were reported on the respective day. 2. All chemicals should be stored in drip trays to prevent land contamination by oil leakage at Worker Resting Area & Product Water | Nil. |

Table 7.2Site Observations

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| Date | Environmental Observations | Follow-up Status |
|---------------|---|------------------|
| | Storage Area (reminder). | |
| | 3. NRMM label should be added to NRMM at | |
| | Combined Shaft Area (reminder). | |
| | 4. The Main Contractor was reminded to | |
| | consider machinery storage within the | |
| | construction site at Combined Shaft Area | |
| | (reminder). | |
| | 5. The Main Contractor was reminded to | |
| | review temporary wastewater storage | |
| | capacity near the Combined Shaft Area | |
| | (reminder). | |
| | Observation(s) and Recommendation(s) | Nil. |
| 30 April 2021 | 1. No major observations were reported on the | |
| | respective day. | |

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 of Product Water Storage Tank perimeter wall and elec. building 's cable trench;
- Backfilling around Product Water Storage Tank;
- Construction of Post Treatment Building Footing;
- Construction of Ground Floor Slab 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;
- Excavation & lateral support for Pump House;
- Wan Po Road Sewage Works TTA, excavation and laying HDPE pipe
- Welding on temporary steel platform by derrick lighter at Intake Shaft

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 marine construction works
- Waste generation from construction activities
- Impact on water quality from marine construction works

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 temporary silt curtain in the area where marine construction works were conducted

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 14th Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 April to 30 April 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.

Eleven (11) of the general water quality monitoring results of suspended solids (SS) obtained had exceeded the Action Level. None (0) 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 06/04, 13/04 and 29/04 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. No major deficiency was observed during site inspection. 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 and temporary wastewater storage capacity.

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

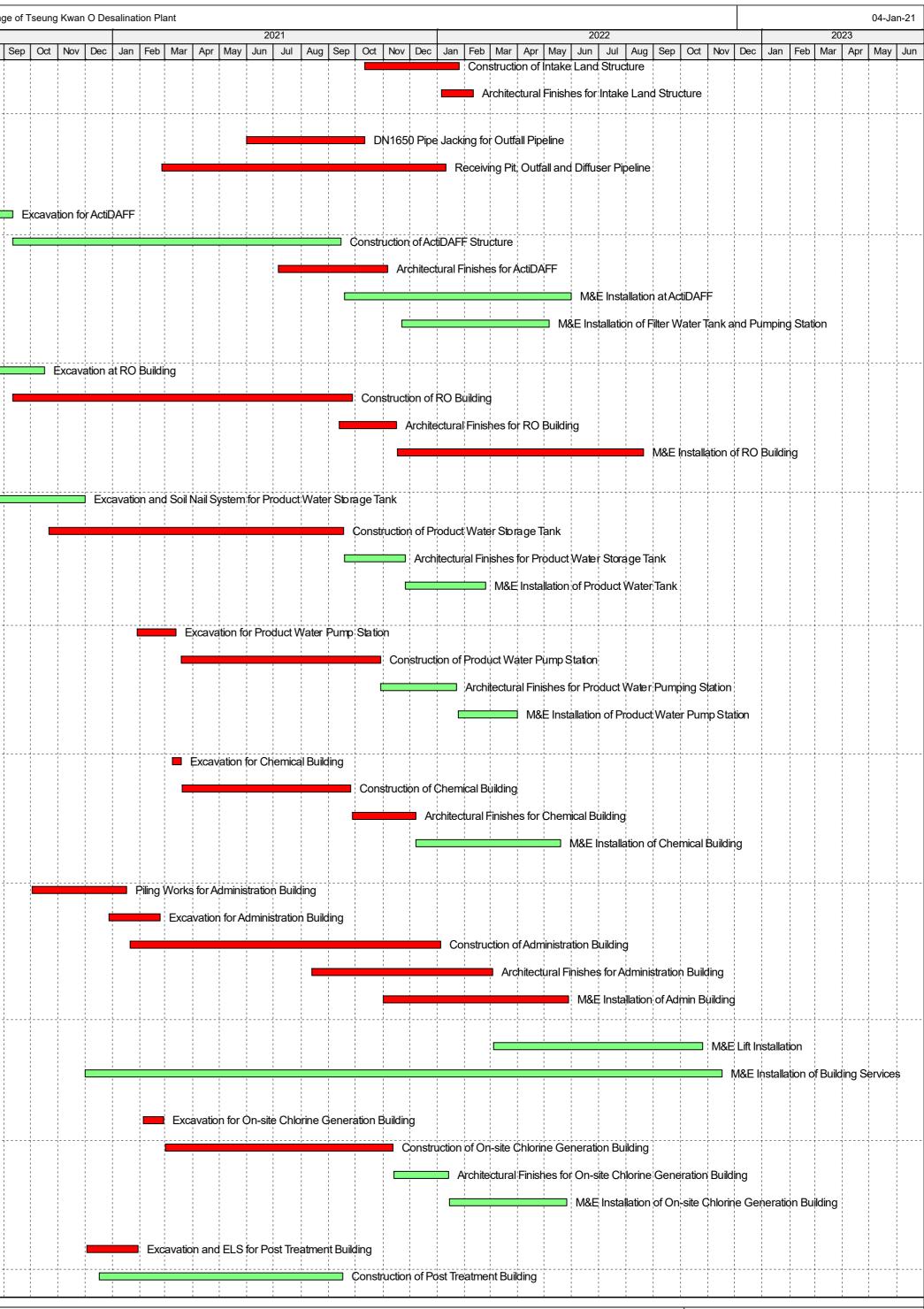
Master Programme

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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 | Nev Dec | | 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 | | | | | | | | | c | 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 | | | | | 1 I 1 I 1 I 1 I 1 I 1 I 1 I 1 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 | | | 1 | i | | i | | | | | i | | | | <u> </u> | | <u> </u> |
| Actual Summary | Critical Bar | | | | | | | | | | Proę | gramme | of the | Works | | | | | | | | acciona | JEC GARLE | |
| 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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| Summary Bar Actual Summa | Iny Early Bar Critical Bar | Page | of 4 | | | | | | | | | | | Prod | ramr | ne o | f the | Works | S |
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| 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 |
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| Actual Summary | Critical Bar |
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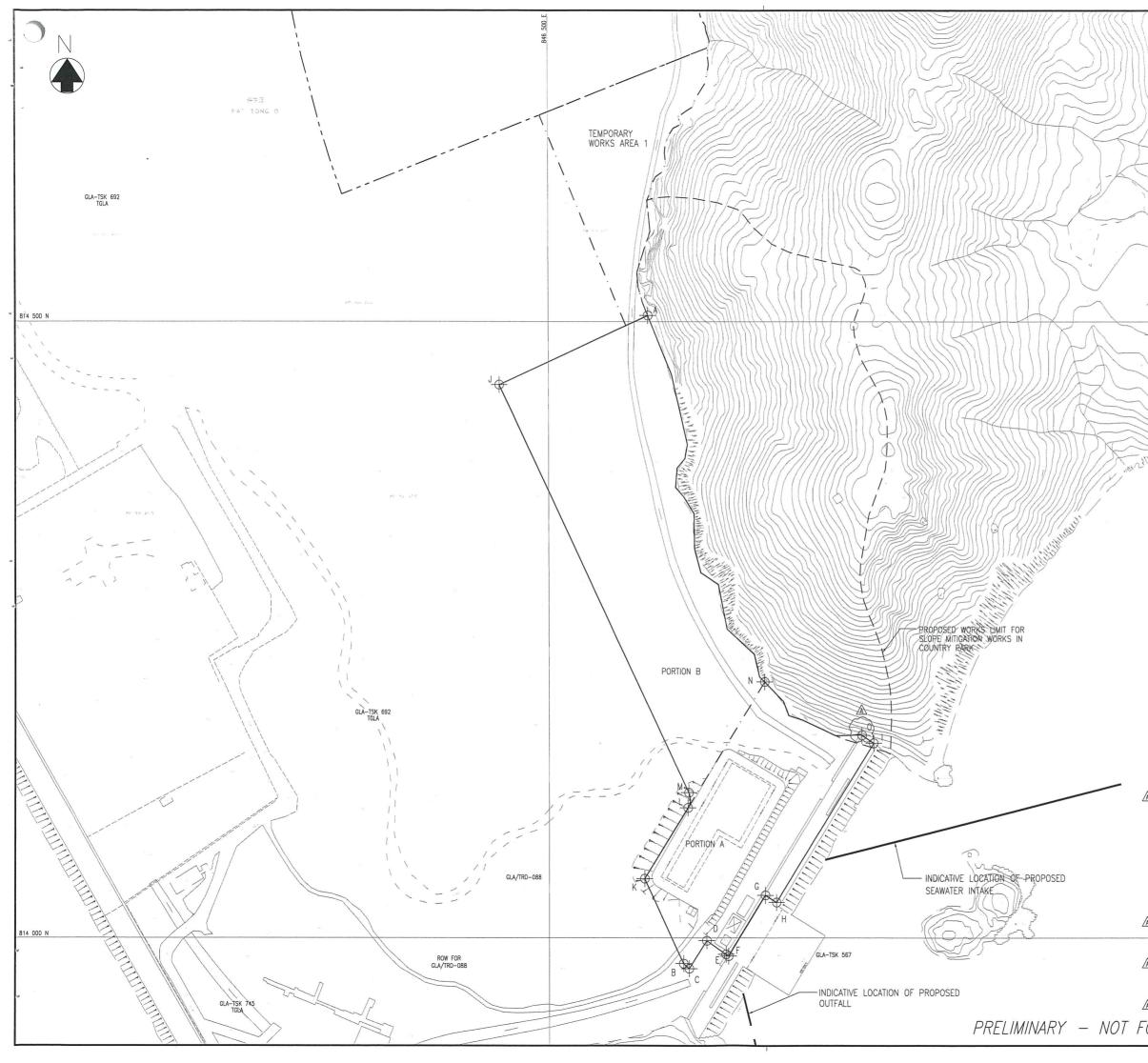




Appendix B

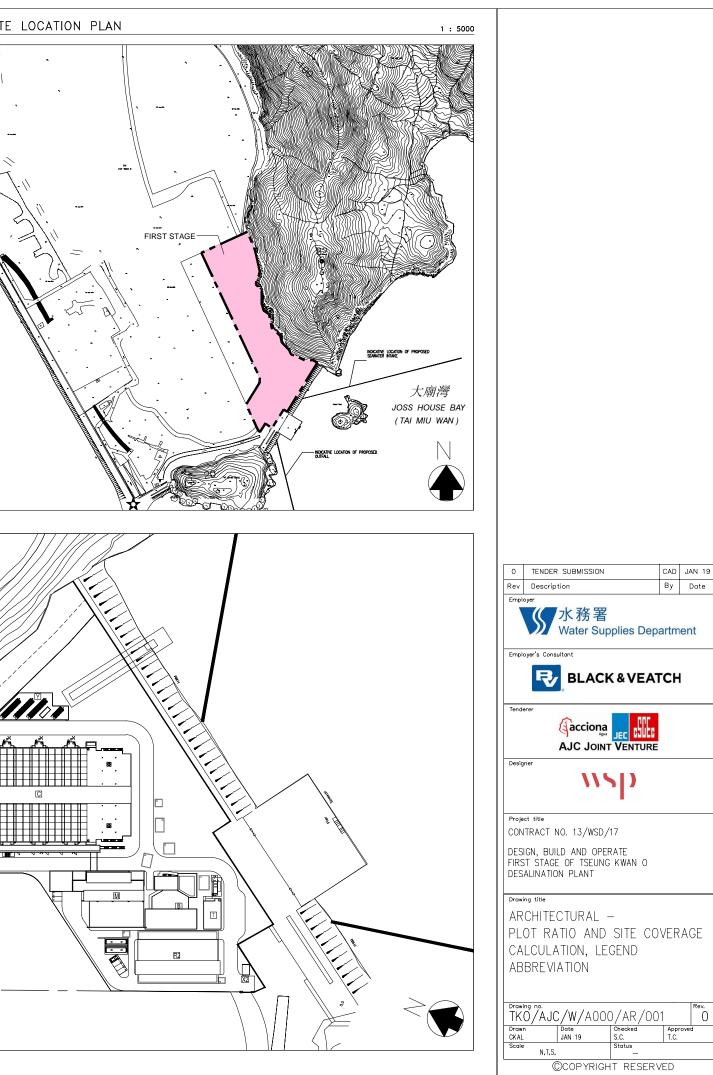
Overview of Desalination Plant in Tseung Kwan O

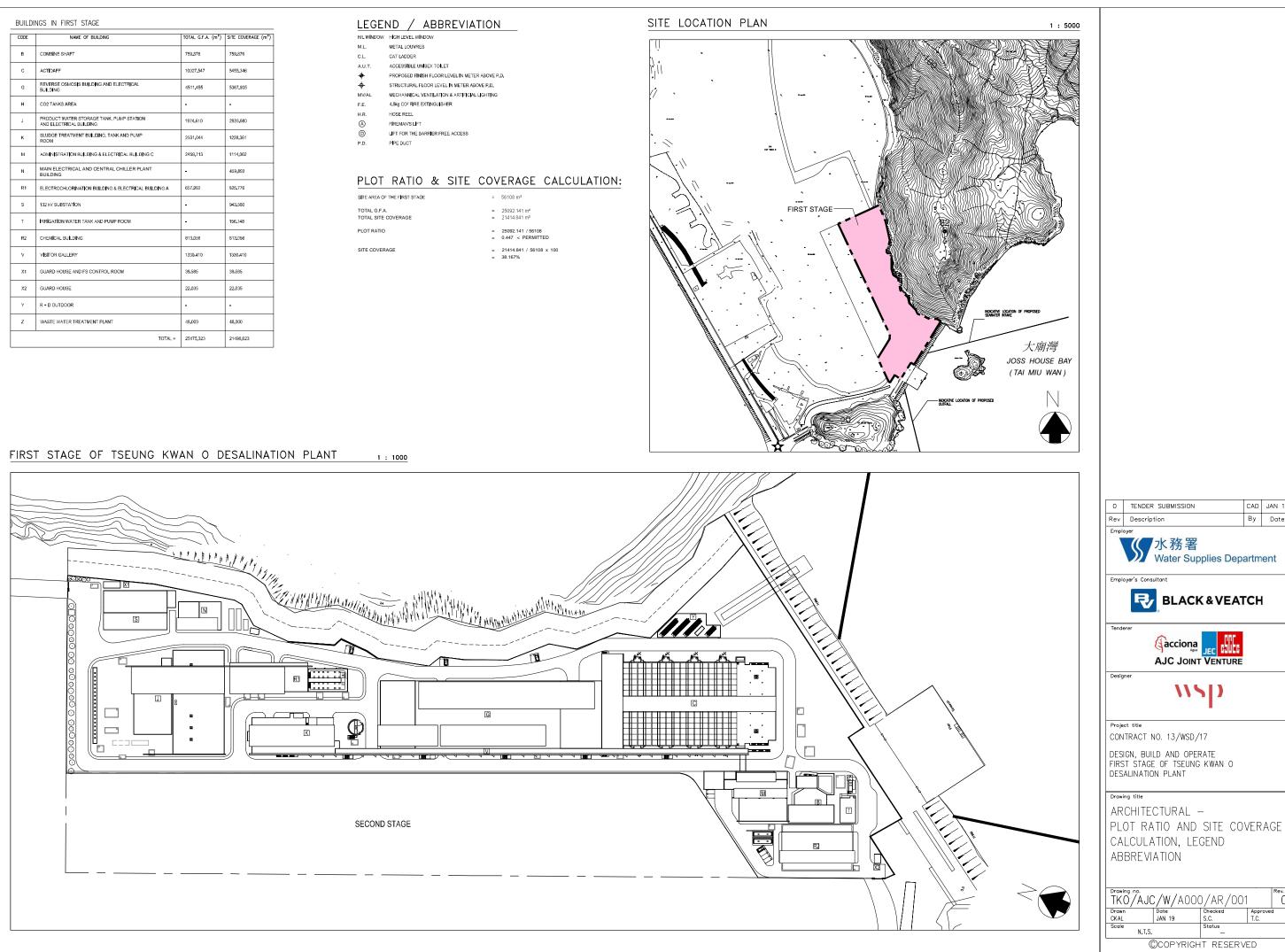
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| | | В | 846610.11 | 813979.23 | Contract Title DESIGN. BUILD AND OPERATE |
| | 1 | | 010010.11 | | |
| | | С | 846614.73 | 813975.12 | DESIGN, BUILD AND OPERATE FIRST STAGE OF TSEUNG KWAN O DESALINATION PLANT |
| | | C D | | 813975.12 813997.84 | FIRST STÁGE OF TSEUNG KWAN O DESALINATION PLANT |
| | | | 846614.73 | | DESALINATION PLANT |
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| | · · · · · · · · · · · · · · · · · · · | D E F | 846614.73 846629.09 846644.75 846646.80 | 813997.84 813986.74 813985.28 | DESALINATION PLANT |
| | · · · · · · · · · · · · · · · · · · · | D E F G | 846614.73 846629.09 846644.75 846646.80 846646.80 846677.24 | 813997.84 813986.74 813985.28 814034.67 | DESALINATION PLANT Drowing Title SITE HANDOVER WORKS AREAS Drowing No. Revision |
| | | D E F G H | 846614.73 846629.09 846644.75 846646.80 846677.24 846686.56 | 813997.84 813986.74 813985.28 814034.67 814028.89 | DESALINATION PLANT Drowing Title SITE HANDOVER WORKS AREAS Drowing No. 190495/K/TEND/10/0003 B |
| | | D E F G H | 846614.73 846629.09 846644.75 846646.80 846646.80 846677.24 846686.56 846766.21 | 813997.84 813986.74 813985.28 814034.67 814028.89 814158.11 | DESALINATION PLANT Drowing Title SITE HANDOVER WORKS AREAS Drowing No. Revision |
| | | D E F G H J | 846614.73 846629.09 846644.75 846646.80 846677.24 846686.56 846766.21 846459.65 | 813997.84 813986.74 813985.28 814034.67 814028.89 814158.11 814448.83 814048.11 814405.63 | DESALINATION PLANT Drowing Title SITE HANDOVER WORKS AREAS Drowing No. 190495/K/TEND/10/0003 B Scele A1 1 : 1500 A3 1 : 3000 水務署 |
| | | D E F G H I J | 846614.73 846629.09 846644.75 846646.80 846677.24 846686.56 846766.21 846766.21 846459.65 846578.45 | 813997.84 813986.74 813985.28 814034.67 814028.89 814158.11 814448.83 814048.11 | DESALINATION PLANT Drowing Title SITE HANDOVER WORKS AREAS Drowing No. 190495/K/TEND/10/0003 B Scole A1 1 :: 1500 A3 1 :: 3000 水務署 Water Supplies |
| | | D E F G H I J K L | 846614.73 846629.09 846644.75 846646.80 846677.24 846686.56 8466766.21 8466578.45 8466578.45 846613.89 | 813997.84 813986.74 813985.28 814034.67 814028.89 814158.11 814448.83 814048.11 814405.63 | DESALINATION PLANT Drowing Title SITE HANDOVER WORKS AREAS Drowing No. 190495/K/TEND/10/0003 B Scele A1 1 : 1500 A3 1 : 3000 水務署 |
| | | D F G H J K L M | 846614.73 846629.09 846644.75 846646.80 846677.24 846686.56 8466766.21 846659.65 846578.45 846613.89 846614.60 | 813997.84 813986.74 813985.28 814034.67 814028.89 814028.89 814158.11 814448.83 814048.11 814405.63 814117.96 | DESALINATION PLANT Drowing Title SITE HANDOVER WORKS AREAS Drowing No. 190495/K/TEND/10/0003 B Scole A1 1 :: 1500 A3 1 :: 3000 水務署 Water Supplies |

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







Appendix C

Summary of Implementation Status of Environmental Mitigation

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| EIA | Recommended Environmental Protection Measures/ | Objectives of the recommended measures & | Implementation Agent | Imple Stage | | | Implementation | Relevant Legislation & Guidelines |
|-------------|---|---|----------------------|----------------|---|---|----------------------------------|--|
| Reference | Mitigation Measures | main concerns to address | | D | C | 0 | status | |
| Air Quality | | | | | | | | |
| S4.8.1 | Impervious dust screen or sheeting will be provided to enclose scaffolding from the ground floor level of building for construction of superstructure of the new buildings. | Land site/ During Construction | Contractor(s) | | • | | 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, reminder issued. | |
| 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 | |



| EIA | 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 | C | 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 | |
| S4.8.1 | Stockpiles of more than 20 bags of cement, dry pulverised fuel ash and dusty construction materials will be covered entirely by impervious sheeting sheltered on top and 3-sides. | Land site/ During construction | Contractor(s) | | • | | Implemented | |
| S4.8.1 | All exposed areas will be kept wet always to minimise dust emission. | Land site/ During construction | Contractor(s) | | ~ | | Implemented | |
| S4.8.1 | Ultra-low-sulphur diesel (ULSD) will be used for all construction plant on-site, as defined as diesel fuel containing not more than 0.005% sulphur by weight) as stipulated in Environment, Transport and Works Bureau Technical Circular (ETWB-TC(W)) No 19/2005 on Environmental Management on Construction Sites. | Land site/ During construction/ During Operation | Contractor(s) | | • | v | 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. | Land site/ During construction | Contractor(s) | | ~ | | N/A | |
| S4.8.1 | Regular maintenance of construction equipment deployed on-site will be conducted to prevent black smoke emission. | Land site/ During construction | Contractor(s) | | ~ | | Implemented | |
| S4.10 | To ensure proper implementation of the recommended dust mitigation measures and good construction site practices during the construction phase, environmental site audits on weekly basis is recommended throughout the construction period. | Land site/ During construction | Contractor(s)/ Environmental Team (ET) & Independent Environmental Checker (IEC) | | ~ | | Implemented | |



| EIA | Recommended Environmental Protection | Objectives of the recommended measures & | Implementation | Implen Stage | nenta | tion | Implementation status | Relevant Legislation | |
|----------|---|--|----------------|-----------------|-------|------|-----------------------|--|--|
| Referenc | e Measures/ Mitigation Measures | main concerns to address | Agent | D | С | 0 | <u> </u> | & 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 | A Practical Guide for the Reduction of Noise from Construction Works, | |
| S5.7 | Silencers or mufflers on construction equipment will be utilised and will be properly maintained during the construction phase. | Noise control/ During construction | Contractor(s) | | ~ | | N/A | A Practical Guide for the Reduction of Noise from Construction Works, | |
| S5.7 | Mobile plant, if any, will be sited as far away from NSRs as possible. | Noise control/ During construction | Contractor(s) | | ~ | | N/A | A Practical Guide for the Reduction of Noise from Construction Works, | |
| S5.7 | Machines and plant (such as trucks) that may be in intermittent use will be shut down between work periods or will be throttled down to a minimum. | Noise control/ During construction | Contractor(s) | | ~ | | Implemented | A Practical Guide for the Reduction of Noise from Construction Works, | |
| S5.7 | Plants known to emit noise strongly in one direction will, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. | Noise control/ During construction | Contractor(s) | | ~ | | N/A | A Practical Guide for the Reduction of Noise from Construction Works, | |
| S5.7 | Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from on-site construction activities. | Noise control/ During construction | Contractor(s) | | • | | N/A | A Practical Guide for the Reduction of Noise from Construction Works, | |
| S5.7 | Use of Quite Powered Mechanical Equipment (QPME). | Noise control/ During construction | Contractor(s) | | • | | Implemented | A Practical Guide for the Reduction of Noise from Construction Works, | |
| S5.7 | Movable noise barriers of 3m in height with skid footing should be used and located within a few metres of stationary plant and mobile plant such that the line of sight to the NSR is blocked by the barriers. The length of the barrier should be at least five times greater than its height. The noise barrier material should have a superficial surface density of at least 7 kg m ⁻² and have | 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 & Guidelines |
|-----------|--|---|---|----------------|----------|------|-----------------------|--------------------------------------|
| 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 | | Guidennes |
| 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 | - |
| S6.9 | After dredging, any excess materials will be cleaned from decks and exposed fittings before the vessel is moved from the dredging area. | Marine Dredging/ During construction | Contractor(s) | | • | | 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) | | • | | Implemented | - |
| S6.9 | All vessels must have a clean ballast system. | Marine Dredging/ During construction | Contractor(s) | | ~ | | Implemented | - |
| S6.9 | No discharge of sewage/grey wastewater should be allowed. Waste water from potentially contaminated area on working vessels should be minimized and collected. These kinds of wastewater should be brought back to port and discharged at appropriate collection and treatment system. | Marine Dredging/ During construction | Contractor(s) | | • | | Implemented | - |
| S6.9 | No soil waste is allowed to be disposed overboard. | Marine Dredging/ During construction | Contractor(s) | | 1 | | N/A | - |



| EIA Reference | Recommended Environmental Protection Measures/ Mitigation Measures | Objectives of the recommended measures & main concerns to | Implementation Agent | Imple Stage | | | Implementation status | Relevant Legislation & Guidelines ProPECC PN 1/94 TM Standard under the WPCO - - ProPECC PN 1/94 ProPECC PN 1/94 |
|---------------|---|---|-------------------------|----------------|----------|---|-----------------------|--|
| | Measures/ Miligation Measures | address | Agent | D | С | 0 | | Guidennes |
| S6.9 | Silt removal facilities such as silt traps or sedimentation facilities will be provided to remove silt particles from runoff to meet the requirements of the TM standard under the WPCO. The design of silt removal facilities will be based on the guidelines provided in ProPECC PN 1/94. All drainage facilities and erosion and sediment control structures will be inspected on a regular basis and maintained to confirm proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit will be removed regularly. | Land site & drainage/ During construction | Contractor(s) | | | | Implemented | |
| \$6.9 | 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) | | | | 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 | moscuros & main concorne to Implementation | | nentat | ion | Implementation status | Effluents Discharged into Drainage and Sewerage Systems Inland and Coastal Waters Technical Memorandum for |
|------------------|--|---|--|---|--------|-----|-----------------------|---|
| | Measures/ Mitigation Measures | address | Agent | D | C | 0 | 1 | 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) | | 1 | | 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 | - |
| \$6.9 and \$6.12 | 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 | | |
| S6.9 | Site drainage should be well maintained and good construction practices should be observed to ensure that oil, fuels, solvents and other chemicals are managed, stored and handled properly and do not enter the nearby water streams. | Land site & drainage/ During construction/ During operation | Contractor(s) | | ~ | ~ | Implemented, reminder issued | - |
| \$6.12 | 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 | Relevant Legislation & |
|---------------|---|--|----------------|----------------|----------|-----|---------------------------------|---|
| | 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 | DEVB TC(W) No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness. |
| \$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 | DEVB TC(W) No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness. |
| 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 | ETWB TC(W) No. 19/2005, Environmental Management on Construction Sites |
| \$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) | | • | | Implemented, reminder issued | 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, reminder issued | Waste Disposal Ordinance (Cap 354) |



| EIA Reference | Recommended Environmental Protection Measures/ | Objectives of the recommended measures & | Implementation | Impler Stage | nentat | ion | Implementation Status | Relevant Legislation & GuidelinesDEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition MaterialsWBTC 32/92, The Use of Tropical Hard Wood on Construction SiteETWB TCW No. 33/2002, Management of Construction and Demolition Material |
|---------------|--|---|-----------------------|-----------------|----------|-----|------------------------------------|---|
| | Mitigation Measures | main concerns to address | Agent | D | C | 0 | | Guidelines |
| S8.5 | A recording system for the amount of wastes generated/recycled and disposal sites. The trip- ticket system will be included as one of the contractual requirements and implemented by the contractor(s). | Land site/ During construction | Contractor(s) | | √ | | Implemented | 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, reminder issued | Tropical Hard Wood on |
| 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 | Management of Construction and Demolition Material |
| S8.5 | Any unused chemicals and those with remaining functional capacity will be recycled as far as possible. | Land site/ During construction | Contractor(s) | | ~ | | N/A | - |
| S8.5 | Use of reusable non-timber formwork to reduce the amount of C&D materials. | All areas/ During construction | Contractor(s) | | √ | | Implemented | Tropical Hard Wood on |
| \$8.5 | 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 | Trip Ticket System for Disposal of Construction & |
| 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, reminder issued | - |
| \$8.5 | 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 management requirement from <i>ETWB TC(W)</i> No. | Marine works/ During construction | WSD/ Contractor(s) | | ~ | | Implemented | ETWB TC(W) No. 34/2002 and Dumping at Sea |



| 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 | C | 0 | | Guidelines |
| | <i>34/2002</i> will be incorporated in the Specification of the Contract Documents. | | | | | | | 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) | | ~ | | Implemented | - |
| S8.5 | Public fill and construction waste shall be segregated and stored in different containers or skips to facilitate reuse or recycling of materials and their proper disposal. | All area/ During construction | Contractor(s) | | • | | Implemented | - |
| S8.5 | Specific areas of the work site will be designated for such segregation and storage if immediate use is not practicable. | All area/ During construction | Contractor(s) | | ~ | | Implemented | - |
| S8.5 | To reduce the potential dust and water quality impacts of site formation works, C&D materials will be wetted as quickly as possible to the extent practice after filling. | All area/ During construction | Contractor(s) | | • | | Implemented | Air Pollution Control (Construction Dust) Regulation (Cap 311R); WPCO (Cap 358) |
| S8.5 | Open stockpiles of excavated/ fill materials or | Land site/ During | Contractor(s) | | ✓ | | Implemented | Air Pollution Control |



| EIA Reference | Recommended Environmental Protection Measures/ | Objectives of the recommended measures & | Implementation | Implei Stage | nentat | ion | Implementation Status | Relevant Legislation & Guidelines(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) Regulation; Code of |
|---------------|---|---|-----------------------|-----------------|----------|----------|--------------------------|--|
| | Mitigation Measures | main concerns to address | Agent | D | С | 0 | | Guidelines |
| | construction wastes on-site should be covered with tarpaulin or similar fabric. | Construction, particularly dry season | | | | | | |
| 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 |
| \$8.5 | 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 |
| S8.5 | 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 & |
|---------------|--|--|-----------------------|-----------------|----------|----------|---------------------------------|---|
| | 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 Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes |
| 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 Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes |
| S8.5 | General refuse will be stored in enclosed bins or compaction units separately from construction and chemical wastes. | All area/ During construction/ During operation | Contractor(s)/ WSD | | ~ | √ | Implemented, reminder issued | Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes |
| S8.5 | Adequate number of waste containers will be provided to avoid over-spillage of waste. | All area/ During construction/ During operation | Contractor(s)/ WSD | | √ | ~ | Implemented | DEVB TC(W) No. 8/2010 Enhanced Specification for Site Cleanliness and Tidiness. |
| S8.5 | A reputable waste collector will be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimise odour, pest and litter impacts. | All area/ During construction/ During operation | Contractor(s)/ WSD | | - | √ | Implemented | - |
| \$8.5 | 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) | | ~ | | 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 | Implementation Stage | | on | Implementation Status | Relevant Legislation & |
|---------------|--|--------------------------|----------------|-------------------------|---|----|--------------------------|------------------------|
| | Mitigation Measures | main concerns to address | Agent | D | С | 0 | | Guidelines |
| | implemented throughout the construction phase. | | | | | | | |



| | | Objectives of the | Implementation | Implei | mentat | ion | Implementation | Relevant Legislation & |
|---------------|---|---|----------------|--------|--------|-----|----------------|------------------------|
| | Mitigation Measures | recommended measures & | Agent | Stage | | 1 | Status | Guidelines |
| | | main concerns to address | rigent | D | C | 0 | | Guidennes |
| | Ecology | | | | | 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) | | 1 | | 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- 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/ Mitigation Measures | Objectives of the recommended measures & | Implementation | Implei Stage | nentat | ion | | Relevant Legislation & Guidelines |
|----------------|--|--|--|-----------------|----------|-----|-------------|--------------------------------------|
| | Miligation Measures | main concerns to address | Agent | D | С | 0 | | |
| 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 | | | ation | Implementation Status | Relevant |
|-------------------|---|---|-----------------------|---|---|-------|--------------------------|---|
| Reference | | measures & main concerns to address | Agent | D | C | 0 | | Legislation & 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 | - |
| S11.10 & 11.11 | Design principles will be adopted to take into account the surrounding area, particularly Clear Water Bay Country Park behind and the nearby waterfront, with due consideration given to: - green roofs where practical (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. |
| S11.10 & 11.11 | No tree within the Country Park will be felled. Trees within the Site unavoidably affected by the works will be transplanted where necessary and practical. For trees that need to be felled, compensatory planting will be provided to the satisfaction of relevant Government departments. A compensatory tree planting proposal including locations of tree compensation will be submitted to seek relevant government department's approval, in accordance with DEVB TC(W) No. 10/2013. (MM5) | All area/ Detailed design/ During construction/ During operation | WSD/ Contractor(s) | • | ~ | • | Implemented | DEVB TC(W) No. 10/2013 |
| S11.10 & | 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 | - | | | Implementation Status | Relevant Legislation & |
|-------------------|--|---|-----------------------|----------|---|----------|--------------------------|---------------------------|
| | | measures & main Age concerns to address | Agent | D | С | 0 | | Guidelines |
| 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) | • | • | • | Implemented | |
| 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 & main concerns to address | Implementation | Stage | 1 | ation | Implementation Status | n Relevant Legislation & Guidelines |
|---------------|---|---|----------------|-------|----------|----------|--------------------------|---|
| | | | Agent | D | С | 0 | | |
| | 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 & main concerns to address | Implementation | | ementa | ation | | Relevant Legislation & |
|---------------|--|---|----------------|---|--------|-------|-------------|------------------------|
| | | | Agent | D | C | 0 | | Guidelines |
| | 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 | recommended measures x | Implementation | | ementa | ation | Implementation Status | Relevant Legislation & |
|---------------|---|---|----------------|---|--------|-------|--------------------------|------------------------|
| IA Reference | | | | D | C | 0 | | Guidelines |
| 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) | V | ~ | • | 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 | 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 | |



| EIA Reference | Recommended Environmental Protection | recommended measures & | Implementation | r - | tage S | | Relevant Legislation & Guidelines |
|---------------|--------------------------------------|------------------------|----------------|------------|--------|--|--------------------------------------|
| | being minimized on-site. | | | | | | |



Appendix D

Impact Monitoring Schedule of the Reporting Month

| Apr-21 | | | | | | | | | | |
|--------|------|--|-----|---|---|---|--|--|--|--|
| | Mon | Tue | Wed | Thu | Fri | Sat | | | | |
| | | | | 1 | 2 | 3 | | | | |
| | | | | Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37 <u>Tidal Period:</u> Ebb Tide: 12:00-17:52 Flood Tide: 05:05-12:00 <u>Monitoring Time:</u> Mid-ebb: 13:11-16:41 Mid-flood: 08:00-11:30* | | Impact Water Quality monitoring for CE, CF, WSR1, W WSR3, WSR4, WSR16, WSR33, WSR36, WSR <u>Tidal Period:</u> Ebb Tide: 13:20-20:02 Flood Tide: 06:00-13:20 <u>Monitoring Time:</u> Mid-ebb:14:56-18:26 Mid-flood: 08:00-11:30* | | | | |
| | 5 | 6 | 7 | 8 | 9 | 10 | | | | |
| | | Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37 <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* | | Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37 <u>Tidal Period:</u> Ebb Tide: 09:00-12:00 Flood Tide: 12:00-19:00 <u>Monitoring Time:</u> Mid-ebb: 08:45-12:15 Mid-flood:13:45-17:15 | | Impact Water Quality monitoring for CE, CF, WSR1, WSR2, W WSR4, WSR16, WSR33, WSR36, WSR37 <u>Tidal Period:</u> Ebb Tide: 08:58-14:00 Flood Tide: 14:00-21:00 <u>Monitoring Time:</u> Mid-ebb:09:44-13:14 Wid-flood:15:30-19:00 Silt Curtain Efficiency Test Baseline (14:00) at 5 monitoring stations | | | | |
| | 12 | 13 | 14 | 15 | 16 | 17 | | | | |
| | 19 | Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37 IIdal Period; Ebb Tide: 10:23-16:08 Flood Tide: 16:08-23:02 Monitoring Time; Mid-ebb:11:30-15:00 Mid-flood:16:00-19:30 20 Impact Wster Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37 Iidal Period; Ebb Tide: 14:00-22:58 Flood Tide: 00:00-14:00 Monitoring Time; Mid-ebb:15:30-19:00 Mid-flood:08:00-11:30* | 21 | Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37 Tidal Period: Ebb Tide: 10:31-17:30 Flood Tide: 05:00-10:31 Monitoring Time: Mid-ebb:12:15-15:45 Mid-flood:08:00-11:30* 22 Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR37 Tidal Period: Ebb Tide: 16:00-23:59 Flood Tide: 00:00-16:00 Monitoring Time: Mid-ebb:16:00-19:30 Mid-flood:09:00-12:30* | 10:00, 12:00, 14:00, 16:00, 18:00 23 | Water Quality monitoring for CE, CF, WSR1, W WSR3, WSR4, WSR16, WSR33, WSR36, WSR3 <u>Hidal Period:</u> Ebb Tide: 10:00-19:00 Flood Tide: 04:00-10:00 <u>Monitoring Time:</u> Mid-ebb:12:45-16:15 Mid-flood: 08:00-11:30* 24 Impact Water Quality monitoring for CE, CF, WSR1, W WSR3, WSR4, WSR16, WSR33, WSR36, WSR3 <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 Mid-flood:13:54-17:24 | | | | |
| | 26 | 27 | 28 | 29 | 30 | | | | | |
| | - 20 | Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37 <u>Tidal Period:</u> Ebb Tide: 09:00-15:21 Flood Tide: 15:21-22:36 <u>Monitoring Time:</u> Mid-ebb:10:25-13:55 Mid-flood:15:30-19:00 | | Impact Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37 Tidal Period: Ebb Tide: 10:11-17:01 Flood Tide: 04:03-10:11 Monitoring Time: Mid-ebb:11:51-15:21 Mid-flood::08:00-11:30* | | | | | | |

\$ - 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→WSR3→WSR3→WSR4→Remaining stations



Appendix E

Event/Action Plan for Noise Exceedance



| Event | Action | | | | | | | | | | |
|--------------|--------|--|-----|---|----|---|----|--|--|--|--|
| | ЕТ | | IEC | | ER | 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 | | Act | tion | |
|----------------|--------------------------------|-------------------------------|-------------------------------|--------------------------------|
| | 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

| | | Total Quantity | | Actual Qua | ntities of Inert C&D | Materials Genera | ted Monthly | | Actual Quantities of C&D Wastes Generated Monthly | | | | |
|----------|-----------------------------|-------------------------------------|-----------------------------|---------------------------|-----------------------------|----------------------------|---------------------------------|--|---|-------------------------------|-------------|----------------|--------------------------------|
| | Total Quantity Generated | Generated | Excavated Material | | No | n-excavated Mater | rial | | | | | | |
| Month | (1) | (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:

(1) 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

| | | Actual Quan | tities of Inert C&l | D Materials Genera | ted Monthly | | | 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 | 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 | 14.767 | 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 | 0.000 | 0.000 | 0.000 | 0.000* | 0.000 | 0.000 | 28.931 | 0.057 | 0.002 | 0.000 | 89.450 |
| May | | | | | | | | | | | |
| Jun | | | | | | | | | | | |
| Sub-total | 12348.860 | 0.000 | 0.000 | 12250.220 | 98.640 | 0.000 | 43.700 | 0.334 | 0.020 | 0.000 | 331.430 |
| Jul | | | | | | | | | | | |
| Aug | | | | | | | | | | | |
| Sep | | | | | | | | | | | |
| Oct | | | | | | | | | | | |
| Nov | | | | | | | | | | | |
| Dec | | | | | | | | | | | |
| Total | 12348.860 | 0.000 | 0.000 | 12250.220 | 98.640 | 0.000 | 43.700 | 0.334 | 0.020 | 0.000 | 331.430 |

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

Notes:

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

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

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

* The data will be reviewed in next month.



Appendix I

Site Inspection Proforma



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

WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

| Inspection Dates $\frac{7}{9}$ | 41204 =25-17:30 | <u>) </u> | Inspected by: | ET: C | vailence lai | | mond kok nis kwan | wsd: | |
|--------------------------------|--------------------|--|---------------|---------|--------------|-------|----------------------|------|---|
| Weather | | | | | - 1880 | | | | ٦ |
| Condition | Sunny | Fine | Overcast | Drizzle | Rain | Storm | Hazy | | |
| Temperature | 24 c | | Humidity | High | Moderate | Low | | | |
| Wind | Calm | Light | Breeze | Strong | | | | | |
| | | | | | | | | | |

| ltem No. | EIA ref. | | N/A | Yes | No | Photo/Remarks |
|---------------------|----------|---|-----|--------------|----|--|
| 0.00 0.01 | | General Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time? | | | | |
| 0.02 | | Is ET Leader's log-book kept readily available for inspections? | | 1 | | |
| 1.00 | | Construction Dust | | | | |
| 1.01 | S4.8.1 | Are dusty materials, such as excavated materials, building debris and construction materials, and exposed earth surface properly covered to prevent dust emission? | | | | |
| 1.02 | S4.8.1 | Are screenings, enclosures, water spraying or vacuum cleaning devices provided to dusty construction works for dust suppression? | | \checkmark | | Scheening. Notminotertis |
| 1.03 | \$4.8.1 | Are fumes or smoke emitting plants or construction activities shielded by a screen? | | | | w-fume/smoler emitting plant/ Construction activity |
| 1.04 | S4.8.1 | Are wheel-washing facilities with high-pressure water jets provided at all site exits? | | | | 3 |
| 1.05 | S4.8.1 | Is wheel-washing provided to all vehicles leaving the site? | | | | - 25 |
| 1.06 | S4.8.1 | Are road section near the site exit free from dusty material? | | V | | |
| 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? | | | | paved. |
| 1.08 | S4.8.1 | Are water spraying provided immediately prior to any loading or transfer of dusty materials? | 1 | \checkmark | | peninder(1) |
| 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? | Í | | | |
| 1.11 | S4.8.1 | Is exposed earth properly treated within six months after the last construction activity on site? | | \checkmark | | · · · · · · · · · · · · · · · · · · · |
| 1.12 | S4.8.1 | Does the operation of plants on site free form dark smoke emission? | | V | | VNRMM Tabe, |

07104

Page 1 of 9



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

| Item | ElA ref. | | N/A | Yes | No | Photo/Remarks |
|------|-----------------------|---|--------------|--------------|----|-------------------------|
| No. | | | | | | |
| | S4.8.1 | Are vehicles travelling at speed not exceeding 15km/hr within the site? | | 1 | | |
| | 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? | | | | |
| | S4.8.1 | Is open burning prohibited? | | | | |
| 2.00 | | Construction Noise (Airborne) | 0 | | | |
| 2.01 | \$5.7 | Are quiet plants adopted on site? | | V | | I proise labor |
| 2.02 | S5.7 | Are the PMEs operating on site well-maintained to minimize the generation of excessive niose? | | | | 1 Regular inspection |
| 2.03 | \$5.7 | Are plants throttled down or turned off when not in use? | | | | - |
| 2.04 | S 5. 7 | Are the plants known to emit noise strongly in one direction oriented to face away from NSRs? | 1 | | |) pronearly |
| 2.05 | S5.7 | Are moveable barriers provided to screen NSRs from plant or noisy operations? | 1 | | | S NSR. |
| 2.06 | | Are silencers, mufflers and enclosures provided to plants? | \Box | | | |
| 2.07 | \$ 5.7 | Are the hoods, cover panels and inspection hatches of PMEs closed during operation? | | 1 | | |
| 2.08 | | Are purposely-built site hoarding construction with appropriate materials provided along the site boundary? | | V | | |
| 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? | V | | | |
| 2.11 | | Are valid noise emission label(s) affixed to all air compressors operating on site? | \checkmark | | | |
| 2.12 | \$ 5. 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? | | \checkmark | | |
| 2.14 | \$ 5. 7 | Are valid construction noise permit(s) displayed at all vehicular exits? | | V | | |
| 3.00 | | Water Quality | | | | |
| 3.01 | | Is effluent discharge license obtained for wastewater discharge from site? | | \checkmark | | |
| 3.02 | \$6.9 | Is effluent discharged according to the effluent discharge license? | | V | | |
| 3.03 | \$6.9 | Is wastewater discharge from site properly treated prior to discharge? | | | | reminder (3) |



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

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| ltem No. | EIA ref. | | N/A | Yes | No | Photo/Remarks |
|-------------|----------|--|--------------|--------------|----|---------------|
| 3.04 | S6.9 | Are perimeter channels provided to intercept storm runoff from outside the site? | | \checkmark | | |
| 3.05 | S6.9 | Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to remove sand/silt particles from runoff? | | | | |
| 8.06 | S6.9 | Is surface runoff diverted to sedimentation facilities? | | | | |
| 3.07 | S6.9 | Is the drainage system properly maintained? | | \checkmark | | |
| 3.08 | S6.9 | Are construction works carefully programmed to minimize soil excavation works during rainy seasons? | | | | |
| 3.09 | S6.9 | Are exposed soil surface protected by paving as soon as possible to reduce the potential of soil erosion? | • | V | | |
| 3.10 | S6.9 | Are temporary access roads protected by crushed gravel? | | ~ | | |
| 3.11 | \$6.9 | Are exposed slope surface properly protected? | | \checkmark | | |
| 3.12 | S6.9 | Is trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation? | | | | |
| 3.13 | S6.9 | Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction? | | \checkmark | | |
| 8.14 | S6.9 | Is runoff from wheel-washing facilities avoided? | | \checkmark | | |
| 8.15 | S6.9 | Is oil leakage or spillage prevented? | | | | S driptvory. |
| 8.16 | S6.9 | Are there any measures to prevent the release of oil and grease into the storm drainage system? | | \checkmark | | |
| 9.17 | S6.9 | Are the oil interceptors/ grease traps properly maintained? | | | | |
| 5.18 | S6.9 | Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams? | | \checkmark | | |
| .19 | S6.9 | Are all fuel tanks and storage areas provided with locks and be sited on sealed areas, within bunds of capacity equal to 110% of the storage capacity of the largest tank? | | \checkmark | | |
| .20 | S6.9 | Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains? | | \checkmark | | |
| .21 | S6.9 | Are sufficient chemical toilets provided on site to handle sewage from construction work force? | | \checkmark | | 1 |
| .22 | S6.9 | Are sewage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors? | | \checkmark | | |
| .23 | S6.9 | Is concrete washing water properly collected and treated prior to discharge? | \checkmark | | | |
| .24 | S6.9 | Is suitable type of silt curtains deployed during dredging to reduce the elevation of suspended solids to nearby sensitive receivers? | Ń | | | |
| .25 | S6.9 | Is closed grab dredger used to reduce the potential leakage of sediments? | V | | | |



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

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| 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? | 1 | | | |
| | \$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 | 86.9 | 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 | \$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? | \checkmark | | | |
| 3.32 | S 6.9 | Are barges filled to a level which ensures that material does not spill over during transport to the disposal site and that adequate freeboard is maintained to ensure that the decks are not washed by wave action? | | | | |
| 3.33 | S6.9 | Are excess materials cleaned from decks and exposed fittings before the vessel is moved from the dredging area after dredging? | \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? | V | | | |
| 3.35 | | When the dredged material has been unloaded at the disposal areas, is any material accumulated on the deck or other exposed parts of the vessel removed and placed in the hold or a hopper? | | | | |
| 3.36 | | 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 | S 6. 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 | | 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? | | | | |

0-7/04



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? | | | | |
| 4.02 | S8.5 | Is a recording system implemented to record the amount of wastes generated, recycled and | <u> </u> | | | |
| | | disposed of? | | | | |
| 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? | | V | | reminderco |
| 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? | | | | |
| | | | | | | |
| 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? | | ν, | | |
| 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? | | | | |
| | | | | V | | |
| 4.11 | S8.5 | Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of | | \square | | |
| | | the largest container or of 20% by volume of the chemical waste stored in that area, | Ļ | | | |
| 4.12 | 595 | whichever is the greatest, provide? Are a routine cleaning and maintenance programme implemented for drainage systems, | 24 | | | |
| 4.12 | 30.5 | sump pits, and oil interceptors? | | | | |
| 4.13 | 585 | Are sufficient general refuse disposal/collection points provided on site? | | | | |
| 4.10 | 56.5 | Are sufficient general refuse disposar concertion points provided on site? | | \checkmark | | |
| 4.14 | S8.5 | Is general refuse disposed of properly and regularly? | | | | |
| | | a general consistence of property and regularity. | | V | | |
| 4.15 | S8.5 | Are appropriate measures adopted to minimize windblown litter and dust during | | | | |
| | 2 | transportation of waste? | | | | |
| 4.16 | S8.5 | Are individual collectors for aluminum cans, plastic bottles and packaging material and | | | | |
| | | office paper provided to encourage waste segregation? | | \checkmark | | |
| 4.17 | S8.5 | Are C&D wastes sorted on site? | | | | |
| | | | | \checkmark | | |
| 4.18 | S8.5 | Are C&D waste disposed of properly? | | | F | |
| | | | | \checkmark | | |
| 4.19 | S8.5 | Are unused C&D materials or chemicals recycled or reused to reduce the quantity of | | | | |
| | | waste? | \checkmark | | | |
| 4.20 | S8.5 | Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site? | | | | |
| | | | | Ľ | | |



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

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| Item | EIA ref. | | N/A | Yes | No | Photo/Remarks |
|------|-------------|--|-----------|----------|----------|---------------|
| No. | | | | | | |
| | 1 | Country Park to assess the condition and identify the location of each individual of | | | | |
| | | Marsdenia lachnostoma and other flora species of conservation interest that may be directly | | | | |
| | | affected by the construction works? | | | | |
| 6.09 | S9.7 | Is temporary fencing installed to fence off the concerned species either in groups of | | | | |
| | | individually within the works area and in the close proximity to prevent from being | | | | |
| | | 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 | | | | h |
| | | other flora species of conservation interest, if found) adjacent to the proposed alignment of | | | | |
| 6.11 | 80.7 | the flexible barriers prepared to protect the species? | , | | | |
| 0.11 | 59.7 | 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? | | | | |
| | 00.7 | | | | | |
| 6.12 | \$9.7 | Is the resident site supervisory staff closely monitor the conditions of concerned | \square | - | | |
| 0.40 | 60 7 | individuals during construction of flexible barriers in the close proximity? | | <u> </u> | | e |
| 6.13 | \$9.7 | Are fences erected along the boundary of the works area before the commencement of | | | | |
| | | works to prevent vehicle movements and encroachment of personnel onto adjacent areas? | | | | |
| 6.14 | \$9.7 | 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 | \$9.7 | Is any damage and disturbance avoided, particularly those caused by filling and illegal | | | | |
| | | dumping, to the surrounding habitats through proper management of waste disposal? | | | | |
| 6.16 | S9.7 | Are temporarily affected areas reinstated, particularly the habitats of plantation and | | | | |
| | | shrubland-grassland immediately after completion of construction works, through on-site | | | | |
| 6.15 | 80.7 | tree/shrub planting? | , | | | |
| 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 | | | | |
| | | slope mitigation works? | | | | |
| 7.00 | | Landfill Gas Hazard | | | | |
| - | 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? | | | | |
| 7.02 | S12.7 | | | | | |
| 7.02 | 512.7 | Are the gas detection equipment and precautions being used during trenching and | | | 1 | |
| | | 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 | | | |
| | | ignition of gas, the possible presence of contaminated water and the need to avoid | | | | |
| | | physical contact? | L | | L | |
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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? | \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? | | | | |
| | 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? | V | | | |
| | S12.7 | Are the warning signs of the hazards of landfill gas and its possible presence on site posted in prominent places? | 7 | | | |
| 8.00 8.01 | | Overall Is the EM&A properly implemented in general? | | | | |



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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: Observation(1) No major observations mere reported on the respective day. Reminderes) (1) The Main Contractor was reminded, Wally spraying should be implemented during duty construction works to prevent dust emission. (General) ()) The Main Contractor was remiteded that chemical wastes should be collected Suparalely from other cons general warter. (combine shell and) (3) The main contractor was remanded to increase the coparity of the Waslewater collection area to prevent overflow of wastemater from the untreated construction site (combine shaft area) Signatures: ET Contractor's Supervising Officer's IEC's WSD's Representative Representative Representative Representative Representative NA mord (Name: Loui) (Name: Charlene) Kan) (Name. (Name: NA (Name: Usta)) 713/202 07/04



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

| | | WEEKLY | ENVIRON | MENTAL IN | SPECTION C | HECKLIST | - | |
|---|------------|--------|---------------|-----------------------|--------------------------|----------|-----------------|-----|
| Inspection Date: _ Inspection Time:_ | 13/04/2021 | | Inspected by: | ET: CU Contractor: | nor line Lai rìan Küm | 50: | mond look wsd:_ | NLA |
| Weather | 1 | | | | | | | |
| Condition | Sunny | Fine | Overcast | Drizzle | Rajn | Storm | Hazy | |
| Temperature | 28 c | | Humidity | High | Moderate | Low | | |
| Wind | Calm | Light | Breeze | Strong | | | | |

| Item No. | EIA ref. | | N/A | Yes | No | Photo/Remarks |
|---------------------|----------|---|-----|--------------|----|---|
| 0.00 0.01 | | General Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time? | | \checkmark | | |
| 0.02 | | Is ET Leader's log-book kept readily available for inspections? | | | | |
| 1.00 | | Construction Dust | 3 | | | |
| 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 | | |
| 1.02 | S4.8.1 | Are screenings, enclosures, water spraying or vacuum cleaning devices provided to dusty construction works for dust suppression? | | V | | Screening, worker springing Comparessin |
| 1.03 | S4.8.1 | Are fumes or smoke emitting plants or construction activities shielded by a screen? | | \checkmark | | |
| 1.04 | S4.8.1 | Are wheel-washing facilities with high-pressure water jets provided at all site exits? | | | | |
| 1.05 | S4.8.1 | Is wheel-washing provided to all vehicles leaving the site? | | V | | |
| 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? | | | | placed + sprayed |
| 1.08 | S4.8.1 | Are water spraying provided immediately prior to any loading or transfer of dusty materials? | | \checkmark | | |
| 1.09 | S4.8.1 | Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site? | | \checkmark | | |
| 1.10 | S4.8.1 | Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of boulders, poles, pillars sprayed with water to maintain the entire surface wet? | | | | |
| 1.11 | S4.8.1 | Is exposed earth properly treated within six months after the last construction activity on site? | | | | |
| 1.12 | S4.8.1 | Does the operation of plants on site free form dark smoke emission? | | | | 1 DIME + NYMMINDEN |

13/4

Page 1 of 9



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

| Item | EIA ref. | | NI/A | V | N | Disconst |
|------|-----------------------|---|--------------|--------------|--------|------------------------|
| No. | | | 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? | | | | |
| 1.15 | S4.8.1 | Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas? | V | | | |
| 1.16 | S4.8.1 | Are hoarding of at least 2.4m high provided along the site boundary adjoining areas accessible by the public? | | | | |
| 1.17 | S4.8.1 | Is open burning prohibited? | | \checkmark | \Box | |
| 2.00 | | Construction Noise (Airborne) | | - | | |
| 2.01 | \$ 5. 7 | Are quiet plants adopted on site? | | | | Japme lazer |
| 2.02 | \$5. 7 | Are the PMEs operating on site well-maintained to minimize the generation of excessive niose? | | 8 | | 1 secular impertion |
| 2.03 | \$ 5. 7 | Are plants throttled down or turned off when not in use? | | \checkmark | | |
| 2.04 | S 5.7 | Are the plants known to emit noise strongly in one direction oriented to face away from NSRs? | | | | L NONEGUA |
| 2.05 | S5.7 | Are moveable barriers provided to screen NSRs from plant or noisy operations? | | | | WSK 1 |
| | \$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? | | | | |
| 2.08 | | 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 | S 5.7 | Are valid noise emission label(s) affixed to all hand-held breakers operating on site? | | | | 12 |
| 2.11 | \$5. 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? | \checkmark | | | |
| 2.13 | | Are construction noise permit(s) applied for general construction works during restricted hours? | | Í | | |
| | | Are valid construction noise permit(s) displayed at all vehicular exits? | | 5 | | |
| 3.00 | | Water Quality | | | | |
| | | Is effluent discharge license obtained for wastewater discharge from site? | | V | | |
| 3.02 | 9 | Is effluent discharged according to the effluent discharge license? | | | | |
| 3.03 | S6.9 | Is wastewater discharge from site properly treated prior to discharge? | | V | | |

(314



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

| tem | EIA ref. | | N/A | Yes | No | Photo/Remarks |
|-------|----------|--|-----|--------------|----|------------------------|
| lo. | | | | | | |
| 3.04 | S6.9 | Are perimeter channels provided to intercept storm runoff from outside the site? | | | | |
| 3.05 | S6.9 | Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to | | | | |
| | | remove sand/silt particles from runoff? | | | | |
| 3.06 | S6.9 | Is surface runoff diverted to sedimentation facilities? | | | | |
| 3.07 | S6.9 | Is the drainage system properly maintained? | | V | | |
| 3.08 | S6.9 | Are construction works carefully programmed to minimize soil excavation works | | | | |
| | | during rainy seasons? | | | | |
| 3.09 | S6.9 | Are exposed soil surface protected by paving as soon as possible to reduce the potential of soil erosion? | | \checkmark | | |
| 3.10 | S6.9 | Are temporary access roads protected by crushed gravel? | | | | |
| 0.4.4 | 06.0 | | | | | <i>y</i> |
| 3.11 | \$6.9 | Are exposed slope surface properly protected? | | | | |
| 3.12 | S6.9 | Is trench excavation avoided in the wet season as far as practicable, or if necessary, | | 1 | | an same tana tana same |
| | | backfilled in short sections after excavation? | | | | |
| 3.13 | S6.9 | Are open stockpiles of construction materials on site covered by tarpaulin or similar | | | | |
| | | fabric during construction? | | v | L | |
| 3.14 | S6.9 | Is runoff from wheel-washing facilities avoided? | | | | |
| 3.15 | S6.9 | Is oil leakage or spillage prevented? | | | | 1 drigitray |
| 3.16 | S6.9 | Are there any measures to prevent the release of oil and grease into the storm | | | | |
| | | drainage system? | | \sim | | |
| 3.17 | S6.9 | Are the oil interceptors/ grease traps properly maintained? | | | | |
| 3.18 | S6.9 | Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams? | | \checkmark | | |
| 2 10 | S6.9 | Are all fuel tanks and storage areas provided with locks and be sited on sealed areas, | | | | |
| 5.19 | 50.9 | within bunds of capacity equal to 110% of the storage capacity of the largest tank? | | V | | |
| 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 | | | | |
| | M | work force? | | \checkmark | | |
| 3.22 | S6.9 | Are sewage disposal and toilet maintenance of the portable chemical toilets provided | | -6 | | |
| | | by the licensed contractors? | | V | | |
| 3.23 | S6.9 | Is concrete washing water properly collected and treated prior to discharge? | | | | 1.72 |
| 3.24 | S6.9 | Is suitable type of silt curtains deployed during dredging to reduce the elevation of | | | | |
| | | suspended solids to nearby sensitive receivers? | | | | |
| | S6.9 | Is closed grab dredger used to reduce the potential leakage of sediments? | | | | |

13/4



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 $\frac{3}{2}$ to 6 m^3 used for dredging at seawater intake? | V | | | |
| | 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 | \$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 | S 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 | | 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? | V | | | |
| 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 | \$6.9 | Are excess materials cleaned from decks and exposed fittings before the vessel is moved from the dredging area after dredging? | Ľ | | | |
| 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 | | 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 | S 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 | | 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? | V | | | |
| | | 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 contaminated area on working vessels should be minimized and collected? | | | | |
| 3.41 | S6.9 | Is any soil waste disposed overboard? | 3 | | | |

(314

Page 4 of 9



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

| ltem | EIA ref. | ract no. 13/WSD/17 Design, Build and Operate First Stage of Is | N/A | Yes | No | Photo/Remarks |
|---------------------|----------|--|-----|--------------|----|---------------|
| Vo. | | | | | | |
| 4.00 4.01 | S8.5 | Waste Management Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills? | | \checkmark | | - |
| 4.02 | S8.5 | Is a recording system implemented to record the amount of wastes generated, recycled and disposed of? | | \checkmark | | |
| 1.03 | S8.5 | IS the Contractor registered as a chemical waste producer? | | | | |
| 4.04 | S8.5 | Are chemical waste separated from other waste and collected by a licensed chemical waste collector? | 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? | | | | |
| 4.07 | S8.5 | Are all containers for chemical waste properly labelled? | | | | |
| 4.08 | S8.5 | Is chemical waste storage area used solely for storage of chemical waste and properly labelled? | | V | | |
| 1.09 | 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? | | 1 | | |
| 1.11 | 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? | | | | |
| 1.12 | S8.5 | Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors? | | \checkmark | | |
| 1.13 | S8.5 | Are sufficient general refuse disposal/collection points provided on site? | | \checkmark | | |
| .14 | S8.5 | Is general refuse disposed of properly and regularly? | | V | | |
| .15 | S8.5 | Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste? | | V | | |
| .16 | S8.5 | Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation? | | J | | |
| .17 | S8.5 | Are C&D wastes sorted on site? | | V | | |
| .18 | S8.5 | Are C&D waste disposed of properly? | | V | | |
| .19 | a | Are unused C&D materials or chemicals recycled or reused to reduce the quantity of waste? | V | | | |
| .20 | S8.5 | Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site? | | | | verar |

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

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| 11.11 5.00 Ecol. 8.01 S9.7 Is sits 8.02 S9.7 Are s 6.03 S9.7 Are s 6.04 S9.7 Are s 6.05 S9.7 For s | |
| 11.11 Ecol 5.00 S9.7 Is site 5.02 S9.7 Are s .03 S9.7 Are s .04 S9.7 Are s .05 S9.7 For s .05 S9.7 For s | |
| 11.11 Ecol 5.00 S9.7 Is site 5.02 S9.7 Are s 0.03 S9.7 Are s 0.04 S9.7 Are s 0.05 S9.7 For si | |
| 11.11 Ecol. 5.00 S9.7 Is site 5.02 S9.7 Are s .03 S9.7 Are s .04 S9.7 For si dama rock recombined | |
| 11.11 Ecol 5.00 S9.7 Is sits 5.01 S9.7 Are s 5.02 S9.7 Are s 5.03 S9.7 Are s 5.04 S9.7 Are s 5.05 S9.7 For si dama rock or recom 6.06 S9.7 Are p | |
| 11.11 Ecol 3.01 S9.7 Is site 3.02 S9.7 Are s 0.03 S9.7 Are s 0.04 S9.7 Are c 0.05 S9.7 For si dama rock or recons 0.06 S9.7 Are p minin | |
| 11.11 Ecol. 5.00 S9.7 Is sits 5.01 S9.7 Is sits 5.02 S9.7 Are s 5.03 S9.7 Are s 5.04 S9.7 Are s 5.05 S9.7 Are c 5.06 S9.7 For si dama rock or recon recon 5.06 S9.7 Are t intere | |
| 11.11 Ecol 5.00 S9.7 Is site 5.01 S9.7 Are s 5.02 S9.7 Are s 6.03 S9.7 Are s 6.04 S9.7 Are c 6.05 S9.7 For si dama rock recom 6.06 S9.7 Are re minim 6.06 S9.7 Are re minim | |
| 11.11 5.00 Ecol. 3.01 S9.7 Is sits 3.02 S9.7 Are s 3.03 S9.7 Are s 3.04 S9.7 Are s 3.05 S9.7 For si dama rock recom 3.06 S9.7 Are r minini 3.06 S9.7 Are r g minini | |
| 5.06 S11.10 &Is ex | |



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 |
|---------------------|----------|---|--------------|-----|----|---------------|
| 110. | | 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? | M | | | |
| 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? | | | | - |
| 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 works to prevent vehicle movements and encroachment of personnel onto adjacent areas? | | | | |
| 6.14 | S9.7 | Is regular check of the work site boundaries performed to ensure that they are not breached 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? | | | | |
| 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? | V | | | |
| 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? | | | | |
| 7.00 7.01 | S12.7 | Landfill Gas Hazard Are the safety procedures implemented to minimise the risks of fires and explosions, asphyxiation of works and toxicity effects during all works? | \checkmark | | | |
| 7.02 | S12.7 | Are the gas detection equipment and precautions being used during trenching and excavation as well as creation of confined spaces? | 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? | | | | |
| 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? | | | | |
| 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? | | | | - |
| | | | | | | |

13/4



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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 | In the manifesting of the 16th of the state | | | | |
| | | Is the monitoring of landfill gas being undertaken in all excavations, manholes, chambers and any confined spaces? | \Box | | | |
| 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? | 5 | | | |
| 7.09 | S12.7 | Is the method statement covering all normal and emergency procedures provided by the drilling contractor prior to the commencement of the site works? | 1 | | | |
| 7.10 | S12.7 | Are the below ground services entries being sealed to prevent gas entry? Are the grilled metal covers being used for below grade cable trenches? | | | | |
| | 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? | 1 | | | |
| 8.00 | | Overall | | 1 | | |
| 8.01 | | Is the EM&A properly implemented in general? | | J | | |

1314

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

| Observation | , | 1 | as the res | outing Antin | tth. |
|-------------------------------------|------------------------------|--------------|-------------------------------|---------------------------------|-------------------------|
| No Mejor | observations w | ere recorded | in the 1-1 | 8 | |
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| ~~~~~ | | | | | r |
| Signatures: | | | | | · |
| Signatures: ET Representative | Contractor's Representati | | vising Officer's | IEC's Representative | WSD's Representative |
| ET | | | vising Officer's sentative | IEC's Representative | Representative |
| ET | Representati | Repre | sentative Ranged | | |
| ET Representative | Representati | er Kan | sentative Ranged | Representative (Name: Loving | Representative |



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| WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST | | | | | | | | |
|---|-------------|-------|---------------|--------------------|-------------------------|-------|--------------|-----|
| Inspection Date: | | | Inspected by: | ET: Contractor: | orlene la T nan tam. | SO: R | mand kok wsb | NIA |
| Weather | Sunny | Fine | Overcast | Drizzle | Rain | Storm | Hazy | |
| Temperature | 26 c | | Humidity | High | Moderate | Low | | |
| Wind | Calm | Light | Breeze | Strong | | | | |

| Item No. | EIA ref. | | N/A | Yes | No | Photo/Remarks |
|---------------------|----------|--|-----------|--------------|----|---|
| 0.00 0.01 | | General Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time? | | | | |
| 0.02 | | Is ET Leader's log-book kept readily available for inspections? | | V | | |
| 1.00 1.01 | S4.8.1 | Construction Dust Are dusty materials, such as excavated materials, building debris and construction materials, and exposed earth surface properly covered to prevent dust emission? | | \checkmark | | Compection, bass of aucty what have a covered, refuter water spra- |
| 1.02 | S4.8.1 | Are screenings, enclosures, water spraying or vacuum cleaning devices provided to dusty construction works for dust suppression? | | V | | Screening, regular water spring, compartier |
| 1.03 | S4.8.1 | Are fumes or smoke emitting plants or construction activities shielded by a screen? | | | | polume pritting plant/construction autivity |
| 1.04 | S4.8.1 | Are wheel-washing facilities with high-pressure water jets provided at all site exits? | | V | | iden 9 - 0 |
| 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? | | | | |
| 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? | | | | paved |
| | S4.8.1 | Are water spraying provided immediately prior to any loading or transfer of dusty materials? | | | | Water Spaint |
| 1.09 | S4.8.1 | Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site? | \square | | | No dim Anik |
| 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? | | | | VNKMM laber Vernancler (2) |

20/04

Page 1 of 9



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

| ltem | ElA ref. | ract no. 13/WSD/17 Design, Build and Operate First Stage of Is | 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? | | | | |
| 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? | M | | | |
| 1.17 | S4.8.1 | Is open burning prohibited? | | | | |
| 2.00 | | Construction Noise (Airborne) | | | 11 yo 200 | |
| 2.01 | S 5.7 | Are quiet plants adopted on site? | | | | VNOise laber |
| 2.02 | S5.7 | Are the PMEs operating on site well-maintained to minimize the generation of excessive niose? | | \checkmark | | pogular inspection. |
| 2.03 | \$5.7 | 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? | | | | Le no nearly |
| 2.05 | S 5. 7 | Are moveable barriers provided to screen NSRs from plant or noisy operations? | | | |) NSK |
| 2.06 | S 5. 7 | Are silencers, mufflers and enclosures provided to plants? | | | | |
| 2.07 | S 5.7 | Are the hoods, cover panels and inspection hatches of PMEs closed during operation? | | V | | |
| 2.08 | \$ 5.7 | Are purposely-built site hoarding construction with appropriate materials provided along the site boundary? | | | | |
| 2.09 | S 5. 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 | \$5.7 | Are valid noise emission label(s) affixed to all air compressors operating on site? | | | | |
| 2.12 | S 5.7 | 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 | S 5. 7 | Are valid construction noise permit(s) displayed at all vehicular exits? | | 1 | | |
| 3.00 | | Water Quality | | , | | |
| | S 6. 9 | Is effluent discharge license obtained for wastewater discharge from site? | | V | | |
| 3.02 | \$6.9 | Is effluent discharged according to the effluent discharge license? | | | | |
| 3.03 | S 6.9 | Is wastewater discharge from site properly treated prior to discharge? | | V | | te station in the |

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Page 2 of 9



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EIA ref. N/A Yes No Photo/Remarks Item No 3.04 S6.9 Are perimeter channels provided to intercept storm runoff from outside the site? 3.05 S6.9 Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to remove sand/silt particles from runoff? 3.06 \$6.9 Is surface runoff diverted to sedimentation facilities? 3.07 \$6.9 Is the drainage system properly maintained? 3.08 S6.9 Are construction works carefully programmed to minimize soil excavation works during rainy seasons? 3.09 S6.9 Are exposed soil surface protected by paving as soon as possible to reduce the potential of soil erosion? 3.10 \$6.9 Are temporary access roads protected by crushed gravel? 3.11 S6.9 Are exposed slope surface properly protected? Compation you of controla 3.12 S6.9 Is trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation? 3.13 S6.9 Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction? 3.14 S6.9 Is runoff from wheel-washing facilities avoided? 3.15 S6.9 Is oil leakage or spillage prevented? reminder (U 3.16 S6.9 Are there any measures to prevent the release of oil and grease into the storm remindercy drainage system? 3.17 S6.9 Are the oil interceptors/ grease traps properly maintained? 3.18 S6.9 Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams? 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 \$6.9 Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains? 3.21 S6.9 Are sufficient chemical toilets provided on site to handle sewage from construction work force? 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? Is closed grab dredger used to reduce the potential leakage of sediments? 3.25 S6.9

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

2014

Page 3 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 |
|-------------|----------------------|---|--------------|--------------|----|---|
| 3.26 | S 6.9 | Is closed grab dredger of 3 to 6 m ³ used for dredging at seawater intake? | | | | conducted at |
| 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? | | | | Wo dredying or Newring day |
| 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 $3,500 \text{ m}^3$ /day? | | \checkmark | × | |
| 3.30 | S6.9 | Is dredged marine sediment disposed of in a gazetted marine disposal area in accordance with marine dumping permit conditions of the Dumping at Sea Ordinance (DASO)? | | | | No aisposal of deaped Mann Documentantil |
| 3.31 | S6.9 | Are disposal vessels fitted with tight bottom seals in order to prevent leakage of material during transport? | | M | | ing any |
| 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 | S 6. 9 | Are excess materials cleaned from decks and exposed fittings before the vessel is moved from the dredging area after dredging? | | | | |
| 3.34 | S 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 | S 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 | \$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 | S 6.9 | Are all vessels have a clean ballast system? | | | | |
| 3.39 | S 6.9 | Are all vessels well maintained and inspected before use to limit any potential discharges to the marine environment? | | \checkmark | | |
| 3.40 | S 6.9 | Is any discharge of sewage/grey wastewater? Is wastewater from potentially contaminated area on working vessels should be minimized and collected? | \checkmark | | | No watte water Lizborged on Reporting day |
| 3.41 | \$6.9 | Is any soil waste disposed overboard? | | | | 1 |

2014

Page 4 of 9



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| ltem No. | EIA ref. | | N/A | Yes | No | Photo/Remarks |
|---------------------|----------|--|-----|--------------|----|---------------|
| 4.00 4.01 | S8.5 | Waste Management Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at | | / | | |
| | | public filling facilities and landfills? | | | | |
| 4.02 | S8.5 | Is a recording system implemented to record the amount of wastes generated, recycled and disposed of? | | \checkmark | | |
| 4.03 | S8.5 | IS the Contractor registered as a chemical waste producer? | | \checkmark | | |
| 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? | | | | |
| 4.10 | \$8.5 | 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 | \$8.5 | Is general refuse disposed of properly and regularly? | | V | | |
| 4.15 | S8.5 | Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste? | | V | | |
| 4.16 | \$8.5 | 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? | | V | | |
| 4.18 | S8.5 | Are C&D waste disposed of properly? | | | | |
| 4.19 | S8.5 | Are unused C&D materials or chemicals recycled or reused to reduce the quantity of waste? | | | | |
| 4.20 | S8.5 | Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site? | | | | |

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Page 5 of 9



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|------|----------------------|---|--------------|----------------------|----------------|---------------|
| No. | | | | | | |
| | 1 | | | | | |
| 4.21 | S8.5 | Are the construction materials stored properly to minimize the potential for damage or | | | | |
| | | contamination? | | 1 | | |
| 4.22 | S8.5 | Is a dumping license obtained to deliver public fill to public filling areas? | | - | | |
| | | | | | | |
| 5.00 | | | | | | |
| 5.00 | | Landscape and Visual | | | | |
| 5.01 | | 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 | | |
| 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 | | | ~ | | |
| 5.05 | S11.10 & | Are damages to trees outside site boundary due construction works avoided? | | T.A | | |
| | 11.11 | | | \mathbf{v} | | |
| 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 | and the retained and transplaned nee(s) property protected and in good conditions: | | | | |
| 5.09 | | Are surgery works carried out for damaged trees? | | | | |
| 5.00 | 11.11 a | Are surgery works carried out for damaged trees? | | \square | | |
| | | | | | | |
| 6.00 | and the second | Ecology | | | | |
| 6.01 | \$9.7 | Is site runoff properly treated to prevent any silly runoff? | | | | |
| | | | | \mathbf{V} | | |
| 6.02 | S 9.7 | Are silt trap installed and well-maintained? | | | | |
| | | | | | | |
| 6.03 | S 9.7 | Are stockpiles properly covered to avoid generating silty runoff? | | | | |
| | | | | V | | |
| 6.04 | S 9.7 | Are construction works restricted to works area which are clearly defined? | | | | |
| | | | | × , | | |
| 6.05 | S 9.7 | 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 | S 9.7 | Are pruning of tree canopies along the alignment of the flexible barriers limited to a | | | <u> </u> | |
| | | minimum? | \checkmark | | | |
| 6.07 | S 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 | \checkmark | | | |
| | | alignment of flexible barriers positioned at mininmum 1.5 m in a radius away from these | | | | |
| | | individuals? | | | | |
| 6.08 | S 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 | | V | | |
| | 1 | | | | Concernance of | |

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Page 6 of 9



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| Item | EIA ref. | | N/A | Yes | No | Photo/Remarks |
|------|----------|---|-----|---|----|---------------|
| No. | | | | | | |
| | 1 | Country Park to assess the condition and identify the location of each individual of | | | | |
| | | Marsdenia lachnostoma and other flora species of conservation interest that may be directly | | | | |
| | | affected by the construction works? | | | | * 1,1 |
| 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 | | | | |
| | | 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 | | | | |
| | | works to prevent vehicle movements and encroachment of personnel onto adjacent areas? | | | | |
| 6.14 | S9.7 | Is regular check of the work site boundaries performed to ensure that they are not breached | | _ | | |
| | 57.7 | and that damage does not occur to surrounding areas? | | | | |
| 6.15 | 80.7 | Is any damage and disturbance avoided, particularly those caused by filling and illegal | | | | |
| 0.15 | 39.1 | dumping, to the surrounding habitats through proper management of waste disposal? | | ./ | | |
| 0.10 | 0.7 | | | L¥ | | |
| 6.16 | 59.7 | Are temporarily affected areas reinstated, particularly the habitats of plantation and | | | | |
| | | shrubland-grassland immediately after completion of construction works, through on-site | | | | |
| 6.15 | 80.7 | tree/shrub planting? | | | | |
| 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 slope mitigation works? | | | | |
| 7.00 | | Landfill Gas Hazard | | | | |
| | \$12.7 | | | | | |
| 7.01 | S12.7 | 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 | | | | |
| | | 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? | V | | | |
| | 1 | | | | LJ | |
| 7.04 | S12.7 | Are the safety officers trained with regard to landfill gas and leachate related hazards | | 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - | | |
| | | 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 | | | | |
| | | ignition of gas, the possible presence of contaminated water and the need to avoid | | | [] | |
| | | physical contact? | V | | | |
| | | physical conduct: | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

2014



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

| ltem | 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? | | | | |
| 7.08 | S12.7 | Is the drilling proceeded with adequate care and precautions against the potential hazards? | | | | |
| 7.09 | S12.7 | Is the method statement covering all normal and emergency procedures provided by the drilling contractor prior to the commencement of the site works? | \checkmark | | | |
| 7.10 | S12.7 | Are the below ground services entries being sealed to prevent gas entry? Are the grilled metal covers being used for below grade cable trenches? | | | | |
| 7.11 | S12.7 | Is each manhole or utility pit monitored with two measurements (at mid-depth and base) for minimum of 10 minutes? Is the steady reading and peak reading recorded at each manhole or utility pit? | | | | |
| 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 | 1 | Overall | 7 | 1 | | |
| 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: Observation (S) No major observations were recorded on the reporting day. Reminderce, (1) Chemicals should be stored in drip trays to mevent land contamination And by oil leaking at Worker Resting Aread product water storage Area. CDS MKMIN, should be added to NKMM at consider shoft parea. (3) The Main Canthetor Quas verminded to consider machinery storage storage Laber within the construction site. at combined shaft Avea. (4) The Main Contractor was reminded that to temporary washe water storge capacity over the contined shell thee. Signatures: ET Contractor's Supervising Officer's IEC's WSD's Representative Representative Representative Representative Representative -1 NGA 10 (Name: Louis (Name: charlene) (Name: NUA (Name: (Name: lar na 20 Apr 202 2014



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WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

| Inspection Date: $30/0$ | | | Inspected by: | | av lene Lai vian kam | SO: KUY | marel Ede | wsd: C-K-Yip |
|-------------------------|-------|-------|---------------|---------|-------------------------|---------|-----------|--------------|
| Weather Condition | Sunny | Fine | Overcast | Drizzle | Rain | Storm | Hazy | |
| Temperature | 26 C | | Humidity | High | Moderate | Low | | |
| Wind | Calm | Light | Breeze | Strong | | | | |

| Item | EIA ref. | | N/A | Yes | No | Photo/Remarks |
|---------------------|----------|--|--------------|--------------|----|---|
| No. | | | | | | |
| 0.00 0.01 | | General Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time? | | | | |
| 0.02 | | Is ET Leader's log-book kept readily available for inspections? | | | | |
| 1.00 1.01 | S4.8.1 | Construction Dust Are dusty materials, such as excavated materials, building debris and construction materials, and exposed earth surface properly covered to prevent dust emission? | T | | | V compaction v regular spranging |
| 1.02 | S4.8.1 | Are screenings, enclosures, water spraying or vacuum cleaning devices provided to dusty construction works for dust suppression? | | | | Natur spraying |
| 1.03 | S4.8.1 | Are fumes or smoke emitting plants or construction activities shielded by a screen? | \checkmark | | | No fume/ smoke emitting <u>plant/construction</u> autivity observe |
| 1.04 | S4.8.1 | Are wheel-washing facilities with high-pressure water jets provided at all site exits? | | | | |
| 1.05 | S4.8.1 | Is wheel-washing provided to all vehicles leaving the site? | | | | |
| 1.06 | S4.8.1 | Are road section near the site exit free from dusty material? | | | | |
| 1.07 | S4.8.1 | Are all main haul roads inside the site paved or sprayed with water to minimize dust emission during vehicle movement? | | V | | paned + sprayed |
| 1.08 | S4.8.1 | Are water spraying provided immediately prior to any loading or transfer of dusty materials? | | \checkmark | | |
| 1.09 | S4.8.1 | Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site? | | | | no dump timulus observed. |
| 1.10 | S4.8.1 | Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of boulders, poles, pillars sprayed with water to maintain the entire surface wet? | \checkmark | | | |
| 1.11 | S4.8.1 | Is exposed earth properly treated within six months after the last construction activity on site? | | | | |
| 1.12 | S4.8.1 | Does the operation of plants on site free form dark smoke emission? | | í | | V MRMIM (abe) |

3014

Page 1 of 9



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|------|-----------------------|---|--------------|--------------|----|--|
| No. | | | | | | |
| 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? | | | | |
| 1.15 | S4.8.1 | Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas? | | | | |
| 1.16 | S4.8.1 | Are hoarding of at least 2.4m high provided along the site boundary adjoining areas accessible by the public? | | V | | |
| 1.17 | S4.8.1 | Is open burning prohibited? | | | | |
| 2.00 | | Construction Noise (Airborne) | | | | |
| 2.01 | S 5. 7 | Are quiet plants adopted on site? | | | | V apME laber |
| 2.02 | S5.7 | Are the PMEs operating on site well-maintained to minimize the generation of excessive niose? | | | | V ap MB (aber V Reputer in quition |
| 2.03 | S 5. 7 | Are plants throttled down or turned off when not in use? | | \checkmark | | |
| 2.04 | S 5. 7 | Are the plants known to emit noise strongly in one direction oriented to face away from NSRs? | \checkmark | | | KNO MEANDRY |
| 2.05 | S5.7 | Are moveable barriers provided to screen NSRs from plant or noisy operations? | \Box | | | NSR. |
| | \$ 5. 7 | Are silencers, mufflers and enclosures provided to plants? | | | | |
| 2.07 | | Are the hoods, cover panels and inspection hatches of PMEs closed during operation? | | | | |
| 2.08 | S 5.7 | Are purposely-built site hoarding construction with appropriate materials provided along the site boundary? | | \checkmark | | |
| 2.09 | | Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers? | | | | |
| 2.10 | S 5. 7 | Are valid noise emission label(s) affixed to all hand-held breakers operating on site? | | | | |
| 2.11 | | Are valid noise emission label(s) affixed to all air compressors operating on site? | | | | |
| 2.12 | S5.7 | Are all construction noise permit(s) applied for percussive piling work? | | \Box | | |
| 2.13 | S 5.7 | Are construction noise permit(s) applied for general construction works during restricted hours? | | | | |
| | S 5. 7 | 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 | | Is effluent discharged according to the effluent discharge license? | \checkmark | | | V pick not absence V water discharge |
| 3.03 | \$6.9 | Is wastewater discharge from site properly treated prior to discharge? | | | | visit the |

3014

Page 2 of 9



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| tem | EIA ref. | | N/A | Yes | No | Photo/Remarks |
|---------|----------|--|--------------|--------------|----|------------------------|
| lo. | | | | | | |
| 3.04 | S6.9 | Are perimeter channels provided to intercept storm runoff from outside the site? | | | | |
| 3.05 | S6.9 | Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to | | | | |
| | | remove sand/silt particles from runoff? | | V | | |
| 3.06 | S6.9 | Is surface runoff diverted to sedimentation facilities? | | 1 | | |
| 3.07 | S6.9 | Is the drainage system properly maintained? | \checkmark | | | did not tingent the |
| 3.08 | S6.9 | Are construction works carefully programmed to minimize soil excavation works | | | | allen on porties |
| | | 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? | | \vee | | |
| 3.10 | S6.9 | Are temporary access roads protected by crushed gravel? | | - | | |
| | | | | \checkmark | | |
| 3.11 | S6.9 | Are exposed slope surface properly protected? | | | | a |
| | | | | \checkmark | | V compartion |
| 3.12 | S6.9 | Is trench excavation avoided in the wet season as far as practicable, or if necessary, | | | | Junter Spay, y |
| | | backfilled in short sections after excavation? | | \checkmark | | |
| 3.13 | \$6.9 | Are open stockpiles of construction materials on site covered by tarpaulin or similar | | | | |
| | | fabric during construction? | | V | | |
| 3.14 | S6.9 | Is runoff from wheel-washing facilities avoided? | | | | |
| | | | | 1 | | - |
| 3.15 | S6.9 | Is oil leakage or spillage prevented? | | | | 9 |
| | | | 1 | 1 | | I No observation |
| 3.16 | S6.9 | Are there any measures to prevent the release of oil and grease into the storm | | | | 4 at Chimicays |
| | | drainage system? | | | |) dury site wa |
| 3.17 | S6.9 | Are the oil interceptors/ grease traps properly maintained? | | | | |
| | | and a second sec | 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, | | | | |
| 2.10 | 50.7 | within bunds of capacity equal to 110% of the storage capacity of the largest tank? | | \checkmark | | |
| 3.20 | S6.9 | Are tanks, containers, storage area bunded and the locations locked as far as possible | | | | |
| 5.20 | 0.7 | from the sensitive watercourse and stormwater drains? | | \checkmark | | |
| 3 2 1 | S6.9 | Are sufficient chemical toilets provided on site to handle sewage from construction | | | | |
| J | 50.7 | work force? | | \checkmark | | |
| 3 22 | S6.9 | Are sewage disposal and toilet maintenance of the portable chemical toilets provided | | | | |
| J. 6. 6 | 50.7 | by the licensed contractors? | | | | |
| 3 22 | S6.9 | | | | | |
| 3.23 | 50.9 | 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? | | - | | |
| 0.20 | 00.7 | is crosed grad dredger used to reduce the potential reakage of sediments? | | V I | | |

3014

Page 3 of 9



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| ltem | EIA ref. | | N/A | Yes | No | Photo/Remarks |
|------|----------------------|--|--------------|---------------|-----------|----------------------------------|
| No. | | | | | | |
| 3.26 | \$6.9 | Is closed grab dredger of <u>3 to 6</u> m ³ used for dredging at seawater intake? | | | | no dragog at intake area. |
| 3.27 | S 6.9 | Is specific work staff assigned the responsibility for monitoring the number of grab | | | | No dredging |
| | | dredged per hour? Is number of cycle limited to $20-21$ grab per hour for $3m^3$ closed | | | | No dredging during site nalk. |
| | | grab, <u>10-11</u> grab per hour for 6m ³ closed grab? | | | | 0 |
| 3.28 | S 6. 9 | Is the grab operated in slow and controlled manner such that the impact to seabed by | | | | No dredging |
| | | the grab when being lowered could be minimized? Is the operator ensured the grab be | | | | autivity abserved |
| | | properly closed before lifting the grab? | | | | during site walk |
| 3.29 | S 6. 9 | Is the maximum allowed dredging rate at the seawater intake limited to 750 m ³ /day | | | | No tredging |
| | | while the maximum allowed dredging rate at the submarine outfall is 3,500 m ³ /day? | | | | autivity observed |
| 3.30 | \$6.9 | Is dredged marine sediment disposed of in a gazetted marine disposal area in | | | | dury stewalt |
| | | accordance with marine dumping permit conditions of the Dumping at Sea Ordinance | | | | No disposal. |
| | | (DASO)? | | | | sediment |
| 3.31 | \$6.9 | Are disposal vessels fitted with tight bottom seals in order to prevent leakage of | | | | 17 |
| | | material during transport? | | | | |
| 3.32 | \$6.9 | Are barges filled to a level which ensures that material does not spill over during | \square | | | |
| | | transport to the disposal site and that adequate freeboard is maintained to ensure that | | | | 4 |
| | | 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 | | | | |
| | | moved from the dredging area after dredging? | | | | 4 |
| 3.34 | S 6.9 | Are the contractor(s) confirmed that the works cause no visible foam, oil, grease, | | $\overline{}$ | \square | |
| | | litter or other objectionable matter to be present in the water within and adjacent | | | LJ | |
| 0.05 | 0.00 | to the dredging site? | | | | |
| 3.35 | \$6.9 | When the dredged material has been unloaded at the disposal areas, is any material | | | | No dispose |
| | | accumulated on the deck or other exposed parts of the vessel removed and placed in | | | | of ment |
| 0.00 | 04.0 | the hold or a hopper? | | | | FLOW THIN |
| 3.36 | 56.9 | 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 | 1.0 | | | |
| 3.37 | 86.0 | generated by turbulence from vessel movement or propeller wash? | | | | |
| 3.37 | | 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 | | \checkmark | | |
| | | 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? | | | | |
| 0.00 | 50,7 | Are an vessels have a crean banast system? | | | | |
| 3.39 | S6.9 | Are all vessels well maintained and inspected before use to limit any potential | | | | |
| 0.00 | | discharges to the marine environment? | | \checkmark | | |
| 3.40 | | Is any discharge of sewage/grey wastewater? Is wastewater from potentially | | | | Andrian |
| | | contaminated area on working vessels should be minimized and collected? | \checkmark | | | No discharge . July water. |
| 3.41 | S6.9 | Is any soil waste disposed overboard? | | | | NO MISPOSE ! |
| × | | | | | | Modisposal of Indjed suil. |
| | | | | | | |

30/4

Page 4 of 9



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| ltem | EIA ref. | | N/A | Yes | No | Photo/Remarks |
|------|----------|--|-----|--------------|----|---------------|
| No. | | | | | | |
| 4.00 | | Waste Management | | | | |
| 4.01 | S8.5 | Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at | | | | |
| | | public filling facilities and landfills? | | V | | |
| 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? | | | | |
| | | | | 1 | | |
| 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? | | | | |
| | | | | | | |
| 4.07 | S8.5 | Are all containers for chemical waste properly labelled? | | | | |
| | | | | | | |
| 4.08 | S8.5 | Is chemical waste storage area used solely for storage of chemical waste and properly | | | | |
| | | labelled? | | | | |
| 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? | | \square | | |
| | | | | | | |
| 4.11 | S8.5 | Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of | | \square | | |
| 11 | | 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, | | | | |
| 4.12 | 00.0 | sump pits, and oil interceptors? | | \checkmark | | |
| 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? | | | | |
| | | | | \checkmark | | |
| 4.15 | S8.5 | Are appropriate measures adopted to minimize windblown litter and dust during | | | | |
| | | transportation of waste? | | \checkmark | | |
| 4.16 | S8.5 | Are individual collectors for aluminum cans, plastic bottles and packaging material and | | | | |
| | | office paper provided to encourage waste segregation? | | V | | |
| 4.17 | S8.5 | Are C&D wastes sorted on site? | | | | |
| | | | | V | | |
| 4.18 | S8.5 | Are C&D waste disposed of properly? | | | | |
| | | | | | | |
| 4.19 | S8.5 | Are unused C&D materials or chemicals recycled or reused to reduce the quantity of | | | | |
| | | waste? | | | | |
| 4.20 | S8.5 | Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site? | | | | |
| | | | | | | |

3014

Page 5 of 9



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| Item | ELA ref. | | N/A | Yes | No | Photo/Remarks |
|------|-----------------------------|---|--------------|--------------|----|------------------|
| No. | | | | | | |
| | 1 | | | | | |
| 4.21 | S8.5 | Are the construction materials stored properly to minimize the potential for damage or | | | | |
| 1 | | contamination? | | \checkmark | | |
| 4.22 | S8.5 | Is a dumping license obtained to deliver public fill to public filling areas? | | | | |
| | | | | 1 | | |
| | | | | | | |
| 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 | | | V | | |
| 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? | | | | |
| | & 11.11 | | | | | |
| 5.05 | S11 10 & | Are damages to trees outside site boundary due construction works avoided? | | | | |
| 0.00 | 11.11 | a to duringes to nees outside she boundary due construction works avoided: | | | | |
| 5.00 | | | | | | |
| 5.06 | | Is excavation works carried out manually instead of machinery operation within 2.5m | | | | |
| | 11.11 | vicinity of any preserved trees? | | | | |
| 5.07 | a provinsi provinsi a conse | 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 | | \checkmark | | | |
| 6.00 | | Ecology | | | | |
| 6.01 | S9.7 | Is site runoff properly treated to prevent any silly runoff? | | | | No working |
| | | | \checkmark | | | Alisharge oberne |
| 6.02 | S 9.7 | Are silt trap installed and well-maintained? | | - | | Wind She now |
| | | | | V | | |
| 6.03 | S 9.7 | Are stockpiles properly covered to avoid generating silty runoff? | | A | | |
| | | | ¥ | 1 | | |
| 6.04 | S 9.7 | Are construction works restricted to works area which are clearly defined? | | | _ | |
| 0.04 | 37.1 | are construction works restricted to works area which are clearly defined: | | | | |
| 0.05 | 0.0 7 | | | | | |
| 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 | | 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 | V | | | |
| | | alignment of flexible barriers positioned at mininmum 1.5 m in a radius away from these | | | | |
| | | individuals? | | 1 | | |
| 6.08 | S 9.7 | At the detailed design stage prior to the commencement of the slope mitigation works, is | | Th | | |
| | | vegetation survey carried out at the slope mitigation areas within the Clear Water Bay | | | | |

8014

Page 6 of 9



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

| 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 | | | | |
| | | 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? | | | 3 | |
| 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? | | | | |
| 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 | | | | |
| | | works to prevent vehicle movements and encroachment of personnel onto adjacent areas? | | V | | |
| 6.14 | \$9.7 | 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? | | V | | |
| 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 | S9.7 | Are temporarily affected areas reinstated, particularly the habitats of plantation and | | | | |
| | | shrubland-grassland immediately after completion of construction works, through on-site | | | | |
| | | tree/shrub planting? | | | | |
| 6.15 | 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 | Y | | | |
| | | slope mitigation works? | | | | |
| 7.00 | | Landfill Gas Hazard | | | | |
| 7.01 | S12.7 | Are the safety procedures implemented to minimise the risks of fires and explosions, | | | | |
| | | asphyxiation of works and toxicity effects during all works? | | | | |
| 7.02 | S12.7 | Are the gas detection equipment and precautions being used during trenching and | | | | |
| | | excavation as well as creation of confined spaces? | | | | |
| | | | | | L | |
| 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? | | | | |
| | | | | | | <u></u> |
| 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 | | 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - | | |
| | | ignition of gas, the possible presence of contaminated water and the need to avoid | | | | |
| | | physical contact? | Y | | | |
| | | prijologi controlt | | | | |
| | | | | | | 10 |
| <i>k</i> | | | | | | |
| | | | | | | |

3014

Page 7 of 9



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

| ltem No. | ElA 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 | \$12.7 | 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 | \$12.7 | 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? | 1 | | | |
| 7.10 | S12.7 | Are the below ground services entries being sealed to prevent gas entry? Are the grilled metal covers being used for below grade cable trenches? | | | | |
| 7.11 | S12.7 | Is each manhole or utility pit monitored with two measurements (at mid-depth and base) for minimum of 10 minutes? Is the steady reading and peak reading recorded at each manhole or utility pit? | \checkmark | | | |
| 7.12 | S12.7 | Are the warning signs of the hazards of landfill gas and its possible presence on site posted in prominent places? | | | | |
| 8.00 8.01 | | Overall Is the EM&A properly implemented in general? | | 4 | | |
| 0.01 | | as the ENVICE Property Implemented in general? | | V | | |

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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: observations to No Major observations were reported on the respective day. Reminder (0) No reminder items were noted on the reporting day. Signatures: ET Contractor's Supervising Officer's IEC's WSD's Representative Representativ Representative Representative Representative Rozmo (Name: Brian Kan) (Name: Louis (Name: Charlene) (Name! (Name: C Lai awan 30 Apr 2021

3014



Appendix J

Complaint Log



Statistical Summary of Environmental Complaints

| Reporting Period | Environment | Environmental Complaint Statistics | | | | | | | | | |
|------------------|-------------|------------------------------------|------------------|--|--|--|--|--|--|--|--|
| | Frequency | Cumulative | Complaint Nature | | | | | | | | |
| 01 Apr 2021 - | | | | | | | | | | | |
| 30 Apr 2021 | 0 | 0 | N/A | | | | | | | | |
| | | | | | | | | | | | |

Statistical Summary of Environmental Summons

| Reporting Period | Environmenta | Summons Statistics | |
|------------------|--------------|--------------------|---------|
| | Frequency | Cumulative | Details |
| 01 Apr 2021 - | | | |
| 30 Apr 2021 | 0 | 0 | N/A |

Statistical Summary of Environmental Prosecution

| Reporting Period | Environmenta | Environmental Prosecution Statistics | | | | | | | | | | |
|------------------|--------------|--------------------------------------|---------|--|--|--|--|--|--|--|--|--|
| | Frequency | Cumulative | Details | | | | | | | | | |
| 01 Apr 2021 - | | | | | | | | | | | | |
| 30 Apr 2021 | 0 | 0 | N/A | | | | | | | | | |



Appendix K

Impact Monitoring Schedule of Next Reporting Month

| | Mon | Tue Wed | May-21 Thu Fri | Sat |
|---|--|--|--|--|
| | won | Tue wed | inu Fn | Sat |
| | | | | Impact |
| | | | | Water Quality monitoring for CE, CF, WSR1, V |
| | | | | WSR3, WSR4, WSR16, WSR33, WSR36, WSF |
| | | | | Tidal Period: |
| | | | | Ebb Tide: 12:00-19:00 Flood Tide:05:00-12:00 |
| | | | | Monitoring Time: |
| | | | | Mid-ebb:13:45-17:15 |
| | | | | Mid-flood: 08:00-11:30* |
| | | | | |
| | 3 | 4 5 | 6 7 | 8 |
| | | Impact | Impact | Impact |
| | | Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37 | Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37 | Water Quality monitoring for CE, CF, WSR1, WSR3, WSR4, WSR16, WSR33, WSR36, WS |
| | | Tidal Period: | Tidal Period: | Tidal Period: |
| | | Ebb Tide: 15:00-22:59 | Ebb Tide: 07:32-11:00 | Ebb Tide: 08:10-13:15 |
| | | Flood Tide: 00:00-15:00 | Flood Tide: 11:00-17:33 | Flood Tide: 13:15-19:35 |
| | | Monitoring Time: | Monitoring Time: | Monitoring Time: |
| | | Mid-ebb:15:30-19:00& | Mid-ebb: 08:00-11:30*# | Mid-ebb: 08:57-12:27 |
| | | Mid-flood:08:00-11:30* | Mid-flood:12:31-16:01 | Mid-flood:14:40-18:10 |
| | 10 | 11 12 | 13 14 | 15 |
| | | Impact | Inpact International Internati | Impact |
| | | Water Quality monitoring for CE, CF, WSR1, WSR2, | Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, | Water Quality monitoring for CE, CF, WSR1, V |
| | | WSR3, WSR4, WSR16, WSR33, WSR36, WSR37 | WSR4, WSR16, WSR33, WSR36, WSR37 | WSR3, WSR4, WSR16, WSR33, WSR36, WS |
| | | Tidal Period: | <u>Tidal Period:</u> | Tidal Period: |
| | | Ebb Tide: 09:11-15:21 | Ebb Tide: 10:00-16:36 | Ebb Tide: 10:00-18:00 |
| | | Flood Tide: 15:21-21:57 Monitoring Time: | Flood Tide: 16:36-23:18 Monitoring Time: | Flood Tide: 04:00-10:00 Monitoring Time: |
| | | Mid-ebb:10:31-14:01 | Mid-ebb:11:33-15:03 | Mid-ebb:12:15-15:45 |
| | | Mid-flood:15:30-19:00& | Mid-flood:15:30-19:00& | Mid-flood: 08:00-11:30* |
| | | | | |
| | 17 | 18 19 | 20 21 | 22 |
| | | Impact | Impact | Impact |
| | | Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37 | Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37 | Water Quality monitoring for CE, CF, WSR1, V WSR3, WSR4, WSR16, WSR33, WSR36, WSF |
| | | Tidal Period: | Tidal Period: | Tidal Period: |
| | | Ebb Tide: 11:01-21:00 | Ebb Tide: 14:55-23:00 | Ebb Tide: 06:46-12:00 |
| | | Flood Tide: 00:00-11:01 | Flood Tide: 00:00-14:55 | Flood Tide: 12:00-18:00 |
| | | Monitoring Time: | Monitoring Time: | Monitoring Time: |
| | | Mid-ebb:14:15-17:45 | Mid-ebb:15:30-19:00 | Mid-ebb:08:00-11:30* |
| | | Mid-flood:08:00-11:30*# | Mid-flood:08:00-11:30* | Mid-flood:13:15-16:45 |
| | 24 | 25 26 | 27 28 | 29 |
| | | Impact | | Impact |
| | | Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, WSR4, WSR16, WSR33, WSR36, WSR37 | Water Quality monitoring for CE, CF, WSR1, WSR2, WSR3, | Water Quality monitoring for CE, CF, WSR1, |
| | | Tidal Period: | WSR4, WSR16, WSR36, WSR37 <u>Tidal Period:</u> | WSR3, WSR4, WSR16, WSR33, WSR36, WS <u>Tidal Period:</u> |
| | | Ebb Tide: 08:08-14:24 | Ebb Tide: 09:23-16:09 | Ebb Tide: 11:00-18:02 |
| | | Flood Tide: 14:24-21:22 | Flood Tide: 16:09-23:00 | Flood Tide: 04:00-11:00 |
| | | Monitoring Time: | Monitoring Time: | Monitoring Time: |
| | | Mid-ebb:09:31-13:01 | Mid-ebb:11:01-14:31 | Mid-ebb:12:46-16:16 |
| | | Mid-flood:15:30-19:00& | Mid-flood:15:30-19:00& | Mid-flood:08:00-11:30* |
| | 31 | | | |
| | | | | |
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| | | | | |
| | | | | |
| | | | | |
| | | | | |
| : | | | | |
| | Temperature, pH, Turbidity, Salinity, Suspended Solids | | | |
| | | | | |

- Prioritized routing: Mid-Ebb: CE->WSR16->WSR37->WSR36->WSR33->Remaining stations and Mid-Flood: CF->WSR1->WSR2->WSR3->WSR4->Remaining stations



Appendix L

Water Quality Monitoring Data

| 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) (Note 2) |
|----------|--------------------|---------|------------------|-----------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| CE | 20210401 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 11:03 | 8.41 | 8.19 | 31.77 | 27.60 | 3.64 | 2.5 |
| CE | 20210401 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 11:03 | 8.72 | 8.19 | 31.37 | 27.67 | 3.24 | 2.5 |
| CE | 20210401 | Sunny | Moderate | Mid-Flood | Middle | 12.00 | 11:02 | 8.70 | 8.15 | 31.49 | 27.40 | 3.83 | 2.5 |
| CE | 20210401 | Sunny | Moderate | Mid-Flood | Middle | 12.00 | 11:02 | 7.51 | 8.07 | 31.33 | 27.42 | 4.17 | 2.5 |
| CE | 20210401 | Sunny | Moderate | Mid-Flood | Bottom | 23.00 | 11:01 | 7.56 | 8.06 | 31.76 | 27.44 | 4.21 | 2.5 |
| CE | 20210401 | Sunny | Moderate | Mid-Flood | Bottom | 23.00 | 11:01 | 7.77 | 8.10 | 31.22 | 27.44 | 3.64 | 2.5 |
| CE | 20210403 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 10:50 | 8.35 | 8.23 | 29.21 | 27.25 | 2.88 | 2.5 |
| CE | 20210403 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 10:50 | 8.44 | 8.20 | 29.17 | 27.34 | 3.21 | 2.9 |
| CE | 20210403 | Sunny | Moderate | Mid-Flood | Middle | 11.75 | 10:49 | 8.28 | 8.16 | 29.64 | 27.18 | 2.95 | 3.4 |
| CE | 20210403 | Sunny | Moderate | Mid-Flood | Middle | 11.75 | 10:49 | 7.98 | 8.18 | 29.31 | 27.30 | 2.94 | 2.5 |
| CE | 20210403 | Sunny | Moderate | Mid-Flood | Bottom | 22.50 | 10:48 | 8.32 | 8.20 | 29.53 | 27.15 | 3.61 | 2.5 |
| CE | 20210403 | Sunny | Moderate | Mid-Flood | Bottom | 22.50 | 10:48 | 8.19 | 8.23 | 29.43 | 27.37 | 3.23 | 2.5 |
| CE | 20210406 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 10:37 | 8.34 | 8.30 | 30.13 | 22.79 | 3.02 | 4.0 |
| CE | 20210406 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 10:37 | 8.61 | 8.22 | 29.90 | 22.78 | 3.11 | 2.5 |
| CE | 20210406 | Cloudy | Moderate | Mid-Flood | Middle | 10.10 | 10:36 | 8.46 | 8.28 | 30.03 | 22.93 | 2.86 | 3.0 |
| CE | 20210406 | Cloudy | Moderate | Mid-Flood | Middle | 10.10 | 10:36 | 8.19 | 8.34 | 30.07 | 22.84 | 3.25 | 2.5 |
| CE | 20210406 | Cloudy | Moderate | Mid-Flood | Bottom | 19.20 | 10:35 | 8.53 | 8.38 | 30.02 | 22.77 | 3.01 | 2.5 |
| CE | 20210406 | Cloudy | Moderate | Mid-Flood | Bottom | 19.20 | 10:35 | 8.50 | 8.39 | 29.81 | 22.80 | 3.14 | 2.9 |
| CE | 20210408 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:28 | 9.00 | 8.36 | 29.91 | 24.07 | 2.94 | 2.5 |
| CE | 20210408 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:28 | 8.52 | 8.55 | 30.54 | 24.13 | 2.79 | 2.5 |
| CE | 20210408 | Cloudy | Moderate | Mid-Flood | Middle | 10.55 | 16:27 | 8.64 | 8.48 | 29.98 | 23.97 | 3.43 | 2.5 |
| CE | 20210408 | Cloudy | Moderate | Mid-Flood | Middle | 10.55 | 16:27 | 8.99 | 8.55 | 30.21 | 24.15 | 3.17 | 2.5 |
| CE | 20210408 | Cloudy | Moderate | Mid-Flood | Bottom | 20.10 | 16:26 | 8.71 | 8.47 | 30.76 | 24.04 | 3.69 | 2.5 |
| CE | 20210408 | Cloudy | Moderate | Mid-Flood | Bottom | 20.10 | 16:26 | 8.60 | 8.37 | 30.54 | 24.04 | 3.62 | 2.5 |
| CE | 20210410 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 17:57 | 8.77 | 8.33 | 31.57 | 23.12 | 4.07 | 2.5 |
| CE | 20210410 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 17:57 | 8.43 | 8.43 | 31.68 | 23.23 | 3.73 | 2.5 |
| CE | 20210410 | Cloudy | Moderate | Mid-Flood | Middle | 10.30 | 17:56 | 8.69 | 8.49 | 31.20 | 23.21 | 3.37 | 2.5 |
| | | | | | | Page 1 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) (Note 2) |
|----------|--------------------|---------|------------------|-----------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| CE | 20210410 | Cloudy | Moderate | Mid-Flood | Middle | 10.30 | 17:56 | 8.71 | 8.41 | 31.82 | 23.22 | 3.70 | 2.6 |
| CE | 20210410 | Cloudy | Moderate | Mid-Flood | Bottom | 19.60 | 17:55 | 8.44 | 8.33 | 31.77 | 23.30 | 3.47 | 3.0 |
| CE | 20210410 | Cloudy | Moderate | Mid-Flood | Bottom | 19.60 | 17:55 | 8.95 | 8.32 | 31.50 | 23.12 | 4.06 | 2.5 |
| CE | 20210413 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 18:50 | 9.39 | 8.28 | 31.30 | 27.75 | 3.24 | 4.5 |
| CE | 20210413 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 18:50 | 9.61 | 8.27 | 31.75 | 27.77 | 3.34 | 3.2 |
| CE | 20210413 | Sunny | Moderate | Mid-Flood | Middle | 11.60 | 18:49 | 8.87 | 8.47 | 31.46 | 27.76 | 3.47 | 3.7 |
| CE | 20210413 | Sunny | Moderate | Mid-Flood | Middle | 11.60 | 18:49 | 8.95 | 8.39 | 30.74 | 27.84 | 3.44 | 2.6 |
| CE | 20210413 | Sunny | Moderate | Mid-Flood | Bottom | 22.20 | 18:48 | 8.62 | 8.18 | 30.72 | 27.84 | 2.95 | 2.8 |
| CE | 20210413 | Sunny | Moderate | Mid-Flood | Bottom | 22.20 | 18:48 | 8.40 | 8.34 | 30.92 | 27.69 | 3.15 | 3.4 |
| CE | 20210415 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 11:03 | 7.77 | 8.34 | 31.78 | 22.99 | 2.75 | 4.6 |
| CE | 20210415 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 11:03 | 9.83 | 8.44 | 31.85 | 22.87 | 2.49 | 2.6 |
| CE | 20210415 | Cloudy | Moderate | Mid-Flood | Middle | 11.70 | 11:02 | 8.99 | 8.38 | 32.06 | 22.85 | 1.89 | 2.9 |
| CE | 20210415 | Cloudy | Moderate | Mid-Flood | Middle | 11.70 | 11:02 | 9.01 | 8.49 | 32.04 | 23.05 | 1.87 | 2.5 |
| CE | 20210415 | Cloudy | Moderate | Mid-Flood | Bottom | 22.40 | 11:01 | 9.76 | 8.39 | 31.88 | 23.07 | 1.64 | 2.5 |
| CE | 20210415 | Cloudy | Moderate | Mid-Flood | Bottom | 22.40 | 11:01 | 7.79 | 8.40 | 31.52 | 23.05 | 1.77 | 2.5 |
| CE | 20210417 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 10:52 | 9.74 | 8.74 | 31.96 | 22.72 | 3.29 | 3.0 |
| CE | 20210417 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 10:52 | 8.77 | 8.78 | 32.30 | 22.79 | 3.70 | 3.3 |
| CE | 20210417 | Cloudy | Moderate | Mid-Flood | Middle | 11.55 | 10:51 | 9.05 | 8.59 | 32.04 | 22.92 | 3.34 | 4.5 |
| CE | 20210417 | Cloudy | Moderate | Mid-Flood | Middle | 11.55 | 10:51 | 9.10 | 8.73 | 31.94 | 22.83 | 3.33 4 | 4.5 |
| CE | 20210417 | Cloudy | Moderate | Mid-Flood | Bottom | 22.10 | 10:50 | 9.03 | 8.77 | 32.41 | 22.74 | 3.18 | 2.5 |
| CE | 20210417 | Cloudy | Moderate | Mid-Flood | Bottom | 22.10 | 10:50 | 9.93 | 8.65 | 31.72 | 22.68 | 2.96 | 7.5 |
| CE | 20210420 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 10:40 | 7.38 | 8.25 | 25.47 | 23.93 | 4.33 | 5.0 |
| CE | 20210420 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 10:40 | 7.45 | 8.18 | 19.87 | 24.02 | 4.21 | 3.3 |
| CE | 20210420 | Cloudy | Moderate | Mid-Flood | Middle | 11.35 | 10:42 | 7.76 | 8.22 | 25.05 | 24.02 | 4.61 | 3.8 |
| CE | 20210420 | Cloudy | Moderate | Mid-Flood | Middle | 11.35 | 10:42 | 8.06 | 8.26 | 26.22 | 24.03 | 5.16 | 3.8 |
| CE | 20210420 | Cloudy | Moderate | Mid-Flood | Bottom | 21.70 | 10:41 | 7.76 | 8.41 | 26.86 | 24.00 | 5.22 | 3.4 |
| CE | 20210420 | Cloudy | Moderate | Mid-Flood | Bottom | 21.70 | 10:41 | 8.00 | 8.48 | 27.39 | 24.01 | 4.84 | 3.9 |
| | | | | | | Page 2 c | 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) (Note 2) |
|----------|--------------------|---------|------------------|-----------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| CE | 20210422 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 12:03 | 8.34 | 8.18 | 30.77 | 28.99 | 2.70 | 2.8 |
| CE | 20210422 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 12:03 | 8.70 | 8.27 | 30.22 | 28.93 | 2.37 | 3.7 |
| CE | 20210422 | Sunny | Moderate | Mid-Flood | Middle | 12.35 | 12:02 | 8.65 | 8.10 | 30.95 | 28.87 | 3.01 | 2.5 |
| CE | 20210422 | Sunny | Moderate | Mid-Flood | Middle | 12.35 | 12:02 | 8.24 | 8.08 | 30.82 | 29.00 | 2.82 | 2.5 |
| CE | 20210422 | Sunny | Moderate | Mid-Flood | Bottom | 23.70 | 12:01 | 8.94 | 8.24 | 30.99 | 28.98 | 3.17 | 2.6 |
| CE | 20210422 | Sunny | Moderate | Mid-Flood | Bottom | 23.70 | 12:01 | 9.38 | 8.16 | 30.26 | 29.01 | 3.37 | 2.5 |
| CE | 20210424 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:57 | 8.75 | 8.26 | 31.51 | 24.19 | 3.45 | 4.0 |
| CE | 20210424 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:57 | 9.74 | 8.26 | 31.51 | 24.25 | 3.70 | 4.5 |
| CE | 20210424 | Cloudy | Moderate | Mid-Flood | Middle | 12.05 | 16:56 | 8.79 | 8.12 | 31.36 | 24.10 | 2.81 | 2.5 |
| CE | 20210424 | Cloudy | Moderate | Mid-Flood | Middle | 12.05 | 16:56 | 9.57 | 8.36 | 31.70 | 24.03 | 2.52 | 3.0 |
| CE | 20210424 | Cloudy | Moderate | Mid-Flood | Bottom | 23.10 | 16:55 | 9.27 | 8.31 | 31.32 | 24.17 | 3.03 | 3.8 |
| CE | 20210424 | Cloudy | Moderate | Mid-Flood | Bottom | 23.10 | 16:55 | 9.08 | 8.25 | 31.49 | 23.96 | 3.34 | 2.8 |
| CE | 20210427 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 18:29 | 8.43 | 8.42 | 31.15 | 23.03 | 3.49 | 4.5 |
| CE | 20210427 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 18:29 | 9.91 | 8.46 | 31.85 | 23.25 | 3.63 | 3.0 |
| CE | 20210427 | Cloudy | Moderate | Mid-Flood | Middle | 12.10 | 18:28 | 9.25 | 8.32 | 31.06 | 23.28 | 3.60 | 3.4 |
| CE | 20210427 | Cloudy | Moderate | Mid-Flood | Middle | 12.10 | 18:28 | 9.11 | 8.35 | 31.82 | 23.30 | 3.37 | 2.9 |
| CE | 20210427 | Cloudy | Moderate | Mid-Flood | Bottom | 23.20 | 18:27 | 8.40 | 8.48 | 31.44 | 23.18 | 2.97 | 2.8 |
| CE | 20210427 | Cloudy | Moderate | Mid-Flood | Bottom | 23.20 | 18:27 | 9.41 | 8.39 | 31.78 | 23.23 | 2.71 | 3.0 |
| CE | 20210429 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 10:49 | 8.93 | 8.28 | 30.17 | 25.43 | 3.71 | 3.3 |
| CE | 20210429 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 10:49 | 8.82 | 8.19 | 30.39 | 25.49 | 3.44 | 2.5 |
| CE | 20210429 | Sunny | Moderate | Mid-Flood | Middle | 11.45 | 10:48 | 8.94 | 8.34 | 30.41 | 25.72 | 3.05 | 3.9 |
| CE | 20210429 | Sunny | Moderate | Mid-Flood | Middle | 11.45 | 10:48 | 9.04 | 8.31 | 30.22 | 25.36 | 3.08 | 3.9 |
| CE | 20210429 | Sunny | Moderate | Mid-Flood | Bottom | 21.90 | 10:47 | 8.85 | 8.45 | 30.46 | 25.70 | 3.06 | 3.2 |
| CE | 20210429 | Sunny | Moderate | Mid-Flood | Bottom | 21.90 | 10:47 | 8.52 | 8.30 | 29.96 | 25.39 | 3.23 | 5.1 |
| CF | 20210401 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 8:02 | 7.65 | 8.06 | 31.81 | 26.69 | 4.71 | 2.5 |
| CF | 20210401 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 8:02 | 7.95 | 8.25 | 31.18 | 26.92 | 4.51 | 3.5 |
| CF | 20210401 | Sunny | Moderate | Mid-Flood | Middle | 9.55 | 8:01 | 9.25 | 8.07 | 31.29 | 26.76 | 4.90 | 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) (Note 2) |
|----------|--------------------|---------|------------------|-----------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| CF | 20210401 | Sunny | Moderate | Mid-Flood | Middle | 9.55 | 8:01 | 7.62 | 8.10 | 31.92 | 26.77 | 5.01 | 2.5 |
| CF | 20210401 | Sunny | Moderate | Mid-Flood | Bottom | 18.10 | 8:00 | 8.36 | 8.20 | 31.40 | 26.77 | 5.63 | 2.5 |
| CF | 20210401 | Sunny | Moderate | Mid-Flood | Bottom | 18.10 | 8:00 | 8.27 | 8.20 | 31.56 | 26.69 | 5.60 | 2.5 |
| CF | 20210403 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 8:07 | 8.54 | 8.01 | 29.25 | 25.86 | 3.63 | 2.5 |
| CF | 20210403 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 8:07 | 8.59 | 8.01 | 29.30 | 26.10 | 3.98 | 2.5 |
| CF | 20210403 | Sunny | Moderate | Mid-Flood | Middle | 9.85 | 8:06 | 8.29 | 8.10 | 29.48 | 26.01 | 4.22 | 2.5 |
| CF | 20210403 | Sunny | Moderate | Mid-Flood | Middle | 9.85 | 8:06 | 8.25 | 8.19 | 29.24 | 25.92 | 4.39 | 2.5 |
| CF | 20210403 | Sunny | Moderate | Mid-Flood | Bottom | 18.70 | 8:05 | 8.25 | 8.01 | 29.36 | 25.79 | 4.10 | 2.5 |
| CF | 20210403 | Sunny | Moderate | Mid-Flood | Bottom | 18.70 | 8:05 | 8.39 | 8.15 | 29.32 | 25.97 | 3.90 | 2.5 |
| CF | 20210406 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 8:05 | 8.28 | 8.40 | 29.99 | 22.22 | 3.16 | 3.1 |
| CF | 20210406 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 8:05 | 8.52 | 8.33 | 30.08 | 22.44 | 2.99 | 3.7 |
| CF | 20210406 | Cloudy | Moderate | Mid-Flood | Middle | 10.75 | 8:04 | 8.50 | 8.35 | 29.93 | 22.20 | 3.29 | 2.5 |
| CF | 20210406 | Cloudy | Moderate | Mid-Flood | Middle | 10.75 | 8:04 | 8.24 | 8.32 | 30.11 | 22.45 | 2.98 | 2.9 |
| CF | 20210406 | Cloudy | Moderate | Mid-Flood | Bottom | 20.50 | 8:03 | 8.67 | 8.34 | 30.03 | 22.16 | 3.29 | 3.6 |
| CF | 20210406 | Cloudy | Moderate | Mid-Flood | Bottom | 20.50 | 8:03 | 8.20 | 8.37 | 30.03 | 22.21 | 2.96 | 2.6 |
| CF | 20210408 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 13:47 | 8.91 | 8.46 | 30.39 | 23.89 | 3.62 | 2.5 |
| CF | 20210408 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 13:47 | 8.73 | 8.37 | 30.34 | 23.87 | 3.09 | 2.5 |
| CF | 20210408 | Cloudy | Moderate | Mid-Flood | Middle | 9.90 | 13:46 | 9.08 | 8.36 | 29.88 | 23.42 | 3.70 | 2.5 |
| CF | 20210408 | Cloudy | Moderate | Mid-Flood | Middle | 9.90 | 13:46 | 9.07 | 8.46 | 30.22 | 23.87 | 3.32 | 2.5 |
| CF | 20210408 | Cloudy | Moderate | Mid-Flood | Bottom | 18.80 | 13:45 | 8.70 | 8.51 | 30.73 | 23.99 | 3.22 | 2.5 |
| CF | 20210408 | Cloudy | Moderate | Mid-Flood | Bottom | 18.80 | 13:45 | 8.83 | 8.41 | 30.59 | 23.92 | 3.29 | 2.5 |
| CF | 20210410 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 15:42 | 8.82 | 8.39 | 31.57 | 23.73 | 3.04 | 2.5 |
| CF | 20210410 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 15:42 | 9.01 | 8.24 | 31.35 | 23.49 | 3.12 | 2.5 |
| CF | 20210410 | Cloudy | Moderate | Mid-Flood | Middle | 10.45 | 15:41 | 8.49 | 8.32 | 31.67 | 23.93 | 3.88 | 4.1 |
| CF | 20210410 | Cloudy | Moderate | Mid-Flood | Middle | 10.45 | 15:41 | 8.98 | 8.44 | 31.83 | 23.49 | 3.86 | 2.5 |
| CF | 20210410 | Cloudy | Moderate | Mid-Flood | Bottom | 19.90 | 15:40 | 8.56 | 8.31 | 31.77 | 23.63 | 3.87 | 2.5 |
| CF | 20210410 | Cloudy | Moderate | Mid-Flood | Bottom | 19.90 | 15:40 | 9.18 | 8.42 | 31.81 | 23.68 | 3.57 | 2.5 |
| | | | | | | Page 4 c | 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) (Note 2) |
|----------|--------------------|---------|------------------|-----------|----------------|-------------------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| CF | 20210413 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 16:02 | 8.73 | 8.29 | 31.22 | 28.03 | 2.90 | 4.3 |
| CF | 20210413 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 16:02 | 9.07 | 8.22 | 31.17 | 28.02 | 3.24 | 2.5 |
| CF | 20210413 | Sunny | Moderate | Mid-Flood | Middle | 9.75 | 16:01 | 8.92 | 8.30 | 31.19 | 27.97 | 3.19 | 2.7 |
| CF | 20210413 | Sunny | Moderate | Mid-Flood | Middle | 9.75 | 16:01 | 8.45 | 8.22 | 30.78 | 28.03 | 3.31 | 2.6 |
| CF | 20210413 | Sunny | Moderate | Mid-Flood | Bottom | 18.50 | 16:00 | 9.35 | 8.39 | 31.40 | 27.95 | 2.96 | 2.6 |
| CF | 20210413 | Sunny | Moderate | Mid-Flood | Bottom | 18.50 | 16:00 | 9.56 | 8.25 | 31.08 | 28.02 | 3.25 | 3.8 |
| CF | 20210415 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 8:02 | 7.98 | 8.51 | 31.96 | 22.60 | 3.33 | 2.9 |
| CF | 20210415 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 8:02 | 9.30 | 8.36 | 32.13 | 22.63 | 3.19 | 2.5 |
| CF | 20210415 | Cloudy | Moderate | Mid-Flood | Middle | 10.25 | 8:01 | 9.53 | 8.41 | 32.17 | 22.53 | 3.08 | 2.5 |
| CF | 20210415 | Cloudy | Moderate | Mid-Flood | Middle | 10.25 | 8:01 | 8.83 | 8.30 | 31.47 | 22.60 | 3.39 | 2.5 |
| CF | 20210415 | Cloudy | Moderate | Mid-Flood | Bottom | 19.50 | 8:00 | 8.68 | 8.40 | 31.70 | 22.58 | 3.02 | 2.5 |
| CF | 20210415 | Cloudy | Moderate | Mid-Flood | Bottom | 19.50 | 8:00 | 7.96 | 8.44 | 32.15 | 22.64 | 2.82 | 3.4 |
| CF | 20210417 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 8:02 | 9.33 | 8.58 | 31.74 | 22.54 | 3.13 | 2.5 |
| CF | 20210417 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 8:02 | 8.33 | 8.58 | 32.41 | 22.56 | 3.38 | 3.2 |
| CF | 20210417 | Cloudy | Moderate | Mid-Flood | Middle | 10.65 | 8:01 | 8.99 | 8.79 | 32.01 | 22.57 | 3.66 | 3.4 |
| CF | 20210417 | Cloudy | Moderate | Mid-Flood | Middle | 10.65 | 8:01 | 8.36 | 8.77 | 32.29 | 22.54 | 3.06 | 3.3 |
| CF | 20210417 | Cloudy | Moderate | Mid-Flood | Bottom | 20.30 | 8:00 | 8.65 | 8.73 | 31.92 | 22.52 | 3.17 | 3.6 |
| CF | 20210417 | Cloudy | Moderate | Mid-Flood | Bottom | 20.30 | 8:00 | 8.87 | 8.71 | 32.47 | 22.73 | 2.77 | 3.7 |
| CF | 20210420 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 8:02 | 7.58 | 8.22 | 27.03 | 23.85 | 4.82 | 4.4 |
| CF | 20210420 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 8:02 | 7.78 | 8.30 | 27.33 | 23.80 | 4.93 | 5.4 |
| CF | 20210420 | Cloudy | Moderate | Mid-Flood | Middle | 10.55 | 8:01 | 7.54 | 8.21 | 27.28 | 23.66 | 4.33 | 5.2 |
| CF | 20210420 | Cloudy | Moderate | Mid-Flood | Middle | 10.55 | 8:01 | 7.71 | 8.45 | 27.52 | 23.81 | 4.80 | 9.3 |
| CF | 20210420 | Cloudy | Moderate | Mid-Flood | Bottom | 20.10 | 8:00 | 7.64 | 8.45 | 26.85 | 23.72 | 4.13 | 5.0 |
| CF | 20210420 | Cloudy | Moderate | Mid-Flood | Bottom | 20.10 | 8:00 | 8.56 | 8.33 | 27.05 | 23.72 | 4.61 | 5.6 |
| CF | 20210422 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 9:02 | 8.49 | 8.16 | 31.28 | 28.85 | 2.26 | 2.5 |
| CF | 20210422 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 9:02 | 8.18 | 8.24 | 31.15 | 28.74 | 2.27 | 2.5 |
| CF | 20210422 | Sunny | Moderate | Mid-Flood | Middle | 10.10 Page 5 c | 9:01 of 29 | 9.12 | 8.23 | 31.11 | 28.85 | 2.44 | 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) (Note 2) |
|----------|--------------------|---------|------------------|-----------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| CF | 20210422 | Sunny | Moderate | Mid-Flood | Middle | 10.10 | 9:01 | 9.34 | 8.08 | 30.89 | 28.79 | 2.60 | 2.5 |
| CF | 20210422 | Sunny | Moderate | Mid-Flood | Bottom | 19.20 | 9:00 | 8.71 | 8.22 | 30.72 | 28.73 | 2.31 | 2.5 |
| CF | 20210422 | Sunny | Moderate | Mid-Flood | Bottom | 19.20 | 9:00 | 9.11 | 8.21 | 31.15 | 28.78 | 2.14 | 2.5 |
| CF | 20210424 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 13:56 | 9.32 | 8.23 | 31.40 | 24.78 | 3.30 | 3.2 |
| CF | 20210424 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 13:56 | 8.94 | 8.21 | 31.23 | 24.68 | 3.16 | 3.0 |
| CF | 20210424 | Cloudy | Moderate | Mid-Flood | Middle | 10.70 | 13:55 | 9.50 | 8.28 | 31.20 | 24.65 | 3.48 | 3.6 |
| CF | 20210424 | Cloudy | Moderate | Mid-Flood | Middle | 10.70 | 13:55 | 9.09 | 8.12 | 31.31 | 24.63 | 3.35 | 2.5 |
| CF | 20210424 | Cloudy | Moderate | Mid-Flood | Bottom | 20.40 | 13:54 | 9.30 | 8.29 | 31.12 | 24.61 | 3.00 | 3.0 |
| CF | 20210424 | Cloudy | Moderate | Mid-Flood | Bottom | 20.40 | 13:54 | 8.90 | 8.27 | 31.57 | 24.78 | 3.27 | 3.1 |
| CF | 20210427 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 15:32 | 9.01 | 8.41 | 31.54 | 23.46 | 3.79 | 3.2 |
| CF | 20210427 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 15:32 | 8.43 | 8.42 | 30.51 | 23.42 | 3.78 | 3.3 |
| CF | 20210427 | Cloudy | Moderate | Mid-Flood | Middle | 9.55 | 15:31 | 9.86 | 8.40 | 31.07 | 23.66 | 3.46 | 2.5 |
| CF | 20210427 | Cloudy | Moderate | Mid-Flood | Middle | 9.55 | 15:31 | 8.41 | 8.17 | 31.48 | 23.57 | 3.04 | 2.6 |
| CF | 20210427 | Cloudy | Moderate | Mid-Flood | Bottom | 18.10 | 15:30 | 9.76 | 8.17 | 30.62 | 23.70 | 3.44 | 3.4 |
| CF | 20210427 | Cloudy | Moderate | Mid-Flood | Bottom | 18.10 | 15:30 | 9.09 | 8.46 | 31.38 | 23.61 | 3.18 | 4.5 |
| CF | 20210429 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 8:02 | 8.53 | 8.27 | 30.70 | 24.70 | 3.79 | 4.8 |
| CF | 20210429 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 8:02 | 9.07 | 8.44 | 30.17 | 24.63 | 3.65 | 3.6 |
| CF | 20210429 | Sunny | Moderate | Mid-Flood | Middle | 9.50 | 8:01 | 8.70 | 8.20 | 30.59 | 24.34 | 3.02 | 4.2 |
| CF | 20210429 | Sunny | Moderate | Mid-Flood | Middle | 9.50 | 8:01 | 8.98 | 8.30 | 30.73 | 24.68 | 3.33 | 4.4 |
| CF | 20210429 | Sunny | Moderate | Mid-Flood | Bottom | 18.00 | 8:00 | 8.77 | 8.24 | 30.09 | 24.35 | 3.21 | 2.8 |
| CF | 20210429 | Sunny | Moderate | Mid-Flood | Bottom | 18.00 | 8:00 | 8.64 | 8.34 | 30.12 | 24.58 | 3.05 | 4.5 |
| WSR01 | 20210401 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 8:28 | 9.52 | 8.21 | 31.42 | 26.79 | 2.68 | 2.5 |
| WSR01 | 20210401 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 8:28 | 9.68 | 8.19 | 31.25 | 26.80 | 2.57 | 2.5 |
| WSR01 | 20210401 | Sunny | Moderate | Mid-Flood | Middle | 4.30 | 8:27 | 8.41 | 8.06 | 31.74 | 26.82 | 2.87 | 2.5 |
| WSR01 | 20210401 | Sunny | Moderate | Mid-Flood | Middle | 4.30 | 8:27 | 7.62 | 8.14 | 31.89 | 26.70 | 2.64 | 2.5 |
| WSR01 | 20210401 | Sunny | Moderate | Mid-Flood | Bottom | 7.60 | 8:26 | 9.32 | 8.11 | 31.15 | 26.91 | 2.69 | 2.5 |
| WSR01 | 20210401 | Sunny | Moderate | Mid-Flood | Bottom | 7.60 | 8:26 | 8.49 | 8.19 | 31.84 | 26.89 | 2.34 | 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) (Note 2) |
|----------|--------------------|---------|------------------|-----------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR01 | 20210403 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 8:30 | 8.25 | 8.28 | 29.56 | 25.97 | 2.73 | 2.5 |
| WSR01 | 20210403 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 8:30 | 8.44 | 8.01 | 29.57 | 26.10 | 3.22 | 2.5 |
| WSR01 | 20210403 | Sunny | Moderate | Mid-Flood | Middle | 4.35 | 8:29 | 8.09 | 8.02 | 29.63 | 26.06 | 2.88 | 2.5 |
| WSR01 | 20210403 | Sunny | Moderate | Mid-Flood | Middle | 4.35 | 8:29 | 8.10 | 8.22 | 29.50 | 26.14 | 2.59 | 2.5 |
| WSR01 | 20210403 | Sunny | Moderate | Mid-Flood | Bottom | 7.70 | 8:28 | 8.34 | 8.16 | 29.55 | 26.03 | 2.60 | 2.5 |
| WSR01 | 20210403 | Sunny | Moderate | Mid-Flood | Bottom | 7.70 | 8:28 | 8.28 | 8.09 | 29.43 | 25.89 | 2.29 | 2.5 |
| WSR01 | 20210406 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 8:26 | 8.18 | 8.22 | 29.86 | 22.49 | 2.54 | 3.3 |
| WSR01 | 20210406 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 8:26 | 8.19 | 8.24 | 29.86 | 22.38 | 2.44 | 3.2 |
| WSR01 | 20210406 | Cloudy | Moderate | Mid-Flood | Middle | 4.35 | 8:25 | 8.67 | 8.21 | 29.94 | 22.40 | 3.03 | 2.9 |
| WSR01 | 20210406 | Cloudy | Moderate | Mid-Flood | Middle | 4.35 | 8:25 | 8.31 | 8.29 | 29.84 | 22.41 | 2.85 | 3.1 |
| WSR01 | 20210406 | Cloudy | Moderate | Mid-Flood | Bottom | 7.70 | 8:24 | 8.49 | 8.24 | 29.72 | 22.48 | 2.43 | 2.5 |
| WSR01 | 20210406 | Cloudy | Moderate | Mid-Flood | Bottom | 7.70 | 8:24 | 8.50 | 8.32 | 29.95 | 22.46 | 2.60 | 3.5 |
| WSR01 | 20210408 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 14:10 | 8.74 | 8.43 | 30.42 | 23.75 | 2.78 | 2.5 |
| WSR01 | 20210408 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 14:10 | 9.24 | 8.51 | 30.02 | 23.82 | 2.93 | 2.5 |
| WSR01 | 20210408 | Cloudy | Moderate | Mid-Flood | Middle | 4.20 | 14:09 | 8.61 | 8.35 | 30.01 | 23.76 | 2.23 | 2.5 |
| WSR01 | 20210408 | Cloudy | Moderate | Mid-Flood | Middle | 4.20 | 14:09 | 9.10 | 8.48 | 30.09 | 23.63 | 1.95 | 2.5 |
| WSR01 | 20210408 | Cloudy | Moderate | Mid-Flood | Bottom | 7.40 | 14:08 | 9.15 | 8.34 | 30.50 | 23.77 | 1.98 | 2.5 |
| WSR01 | 20210408 | Cloudy | Moderate | Mid-Flood | Bottom | 7.40 | 14:08 | 9.08 | 8.42 | 29.97 | 23.66 | 1.91 | 2.5 |
| WSR01 | 20210410 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 15:52 | 8.47 | 8.23 | 31.23 | 23.55 | 3.30 | 3.3 |
| WSR01 | 20210410 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 15:52 | 8.31 | 8.28 | 31.50 | 23.51 | 3.08 | 4.1 |
| WSR01 | 20210410 | Cloudy | Moderate | Mid-Flood | Middle | 4.65 | 15:51 | 8.67 | 8.27 | 31.64 | 23.74 | 2.73 | 2.5 |
| WSR01 | 20210410 | Cloudy | Moderate | Mid-Flood | Middle | 4.65 | 15:51 | 8.40 | 8.34 | 31.28 | 23.52 | 2.99 | 2.5 |
| WSR01 | 20210410 | Cloudy | Moderate | Mid-Flood | Bottom | 8.30 | 15:50 | 9.04 | 8.42 | 31.59 | 23.64 | 2.23 | 3.5 |
| WSR01 | 20210410 | Cloudy | Moderate | Mid-Flood | Bottom | 8.30 | 15:50 | 8.79 | 8.44 | 31.84 | 23.66 | 2.59 | 2.5 |
| WSR01 | 20210413 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 16:25 | 9.03 | 8.37 | 30.72 | 28.04 | 2.62 | 3.7 |
| WSR01 | 20210413 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 16:25 | 8.67 | 8.41 | 30.55 | 27.95 | 2.46 | 3.4 |
| WSR01 | 20210413 | Sunny | Moderate | Mid-Flood | Middle | 4.30 | 16:24 | 9.56 | 8.25 | 31.61 | 27.92 | 2.13 | 4.4 |
| VUSIOL | 20210413 | Sunny | wouldte | | whould | Page 7 c | | 5.50 | 0.25 | 51.01 | 21.32 | 2.13 | |

| 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) (Note 2) |
|----------|--------------------|---------|------------------|-----------|----------------|------------------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR01 | 20210413 | Sunny | Moderate | Mid-Flood | Middle | 4.30 | 16:24 | 9.82 | 8.39 | 30.97 | 27.91 | 2.34 | 3.3 |
| WSR01 | 20210413 | Sunny | Moderate | Mid-Flood | Bottom | 7.60 | 16:23 | 9.72 | 8.33 | 31.47 | 27.88 | 2.42 | 3.7 |
| WSR01 | 20210413 | Sunny | Moderate | Mid-Flood | Bottom | 7.60 | 16:23 | 9.05 | 8.37 | 31.17 | 28.03 | 2.27 | 4.3 |
| WSR01 | 20210415 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 8:28 | 9.96 | 8.52 | 31.75 | 22.66 | 1.89 | 3.1 |
| WSR01 | 20210415 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 8:28 | 9.25 | 8.30 | 31.50 | 22.68 | 2.05 | 2.5 |
| WSR01 | 20210415 | Cloudy | Moderate | Mid-Flood | Middle | 4.40 | 8:27 | 8.31 | 8.34 | 31.40 | 22.59 | 1.69 | 4.7 |
| WSR01 | 20210415 | Cloudy | Moderate | Mid-Flood | Middle | 4.40 | 8:27 | 9.94 | 8.44 | 31.39 | 22.57 | 1.63 | 2.5 |
| WSR01 | 20210415 | Cloudy | Moderate | Mid-Flood | Bottom | 7.80 | 8:26 | 9.06 | 8.40 | 31.49 | 22.59 | 1.88 | 2.5 |
| WSR01 | 20210415 | Cloudy | Moderate | Mid-Flood | Bottom | 7.80 | 8:26 | 9.86 | 8.41 | 32.01 | 22.59 | 1.91 | 2.8 |
| WSR01 | 20210417 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 8:27 | 8.69 | 8.78 | 32.05 | 22.52 | 1.94 | 5.2 |
| WSR01 | 20210417 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 8:27 | 8.07 | 8.78 | 31.89 | 22.56 | 2.20 | 3.1 |
| WSR01 | 20210417 | Cloudy | Moderate | Mid-Flood | Middle | 4.45 | 8:26 | 8.06 | 8.77 | 31.91 | 22.73 | 2.72 | 3.5 |
| WSR01 | 20210417 | Cloudy | Moderate | Mid-Flood | Middle | 4.45 | 8:26 | 9.81 | 8.62 | 31.97 | 22.53 | 2.82 | 3.7 |
| WSR01 | 20210417 | Cloudy | Moderate | Mid-Flood | Bottom | 7.90 | 8:25 | 9.90 | 8.63 | 32.07 | 22.56 | 2.06 | 2.8 |
| WSR01 | 20210417 | Cloudy | Moderate | Mid-Flood | Bottom | 7.90 | 8:25 | 10.12 | 8.80 | 32.01 | 22.61 | 1.98 | 3.3 |
| WSR01 | 20210420 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 8:26 | 8.19 | 8.41 | 27.65 | 23.76 | 3.11 | 2.9 |
| WSR01 | 20210420 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 8:26 | 8.54 | 8.40 | 27.01 | 23.66 | 2.81 | 3.9 |
| WSR01 | 20210420 | Cloudy | Moderate | Mid-Flood | Middle | 4.35 | 8:25 | 7.52 | 8.20 | 27.10 | 23.85 | 2.32 | 4.3 |
| WSR01 | 20210420 | Cloudy | Moderate | Mid-Flood | Middle | 4.35 | 8:25 | 7.95 | 8.47 | 27.47 | 23.77 | 2.25 | 4.2 |
| WSR01 | 20210420 | Cloudy | Moderate | Mid-Flood | Bottom | 7.70 | 8:24 | 7.96 | 8.32 | 27.53 | 23.65 | 2.85 | 4.4 |
| WSR01 | 20210420 | Cloudy | Moderate | Mid-Flood | Bottom | 7.70 | 8:24 | 8.18 | 8.24 | 27.48 | 23.78 | 3.23 | 3.3 |
| WSR01 | 20210422 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 9:28 | 9.06 | 8.12 | 31.12 | 28.67 | 2.30 | 2.5 |
| WSR01 | 20210422 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 9:28 | 9.12 | 8.19 | 30.77 | 28.67 | 2.10 | 3.0 |
| WSR01 | 20210422 | Sunny | Moderate | Mid-Flood | Middle | 4.20 | 9:27 | 8.50 | 8.17 | 30.53 | 28.77 | 2.59 | 2.9 |
| WSR01 | 20210422 | Sunny | Moderate | Mid-Flood | Middle | 4.20 | 9:27 | 8.90 | 8.09 | 30.82 | 28.93 | 2.48 | 3.2 |
| WSR01 | 20210422 | Sunny | Moderate | Mid-Flood | Bottom | 7.40 | 9:26 | 8.87 | 8.22 | 30.23 | 28.93 | 2.07 | 2.8 |
| WSR01 | 20210422 | Sunny | Moderate | Mid-Flood | Bottom | 7.40 Page 8 d | 9:26 | 9.17 | 8.18 | 30.62 | 28.87 | 1.85 | 2.8 |

| 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) (Note 2) |
|----------|--------------------|---------|------------------|-----------|----------------|------------------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR01 | 20210424 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 14:22 | 9.62 | 8.26 | 31.41 | 24.61 | 2.16 | 3.0 |
| WSR01 | 20210424 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 14:22 | 9.57 | 8.35 | 31.46 | 24.34 | 2.21 | 3.4 |
| WSR01 | 20210424 | Cloudy | Moderate | Mid-Flood | Middle | 4.55 | 14:21 | 9.45 | 8.27 | 31.58 | 24.50 | 2.31 | 3.2 |
| WSR01 | 20210424 | Cloudy | Moderate | Mid-Flood | Middle | 4.55 | 14:21 | 8.77 | 8.29 | 31.45 | 24.49 | 2.51 | 3.4 |
| WSR01 | 20210424 | Cloudy | Moderate | Mid-Flood | Bottom | 8.10 | 14:20 | 8.80 | 8.34 | 31.46 | 24.52 | 1.66 | 3.0 |
| WSR01 | 20210424 | Cloudy | Moderate | Mid-Flood | Bottom | 8.10 | 14:20 | 9.39 | 8.20 | 31.47 | 24.57 | 1.86 | 3.4 |
| WSR01 | 20210427 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 15:56 | 9.69 | 8.43 | 31.28 | 23.46 | 2.20 | 3.7 |
| WSR01 | 20210427 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 15:56 | 9.89 | 8.45 | 31.79 | 23.35 | 2.23 | 2.6 |
| WSR01 | 20210427 | Cloudy | Moderate | Mid-Flood | Middle | 4.60 | 15:55 | 9.72 | 8.35 | 31.67 | 23.30 | 1.84 | 2.7 |
| WSR01 | 20210427 | Cloudy | Moderate | Mid-Flood | Middle | 4.60 | 15:55 | 8.62 | 8.39 | 31.72 | 23.20 | 1.86 | 2.6 |
| WSR01 | 20210427 | Cloudy | Moderate | Mid-Flood | Bottom | 8.20 | 15:54 | 9.17 | 8.28 | 30.85 | 23.43 | 1.75 | 2.9 |
| WSR01 | 20210427 | Cloudy | Moderate | Mid-Flood | Bottom | 8.20 | 15:54 | 9.88 | 8.27 | 30.59 | 23.34 | 1.76 | 2.5 |
| WSR01 | 20210429 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 8:26 | 8.93 | 8.36 | 30.15 | 24.49 | 2.80 | 3.2 |
| WSR01 | 20210429 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 8:26 | 8.41 | 8.34 | 30.82 | 24.40 | 2.67 | 4.7 |
| WSR01 | 20210429 | Sunny | Moderate | Mid-Flood | Middle | 4.20 | 8:25 | 8.81 | 8.20 | 30.83 | 24.62 | 2.42 | 2.5 |
| WSR01 | 20210429 | Sunny | Moderate | Mid-Flood | Middle | 4.20 | 8:25 | 8.89 | 8.40 | 29.91 | 24.55 | 2.16 | 2.5 |
| WSR01 | 20210429 | Sunny | Moderate | Mid-Flood | Bottom | 7.40 | 8:24 | 8.88 | 8.24 | 30.71 | 24.40 | 1.69 | 4.8 |
| WSR01 | 20210429 | Sunny | Moderate | Mid-Flood | Bottom | 7.40 | 8:24 | 8.73 | 8.34 | 30.59 | 24.51 | 1.63 | 4.4 |
| WSR02 | 20210401 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 8:49 | 9.67 | 8.04 | 31.38 | 26.88 | 2.56 | 2.5 |
| WSR02 | 20210401 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 8:49 | 8.00 | 8.01 | 31.24 | 26.83 | 2.17 | 2.5 |
| WSR02 | 20210401 | Sunny | Moderate | Mid-Flood | Middle | 4.85 | 8:48 | 7.72 | 8.15 | 31.50 | 27.15 | 2.26 | 2.5 |
| WSR02 | 20210401 | Sunny | Moderate | Mid-Flood | Middle | 4.85 | 8:48 | 8.35 | 8.16 | 31.72 | 26.84 | 1.95 | 2.5 |
| WSR02 | 20210401 | Sunny | Moderate | Mid-Flood | Bottom | 8.70 | 8:47 | 7.83 | 8.19 | 31.28 | 26.86 | 1.67 | 2.5 |
| WSR02 | 20210401 | Sunny | Moderate | Mid-Flood | Bottom | 8.70 | 8:47 | 7.79 | 8.18 | 31.87 | 27.01 | 1.82 | 2.5 |
| WSR02 | 20210403 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 8:48 | 8.64 | 8.25 | 29.24 | 26.48 | 2.84 | 2.5 |
| WSR02 | 20210403 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 8:48 | 8.14 | 8.14 | 29.52 | 26.40 | 2.96 | 2.5 |
| WSR02 | 20210403 | Sunny | Moderate | Mid-Flood | Middle | 4.95 Page 9 d | 8:47 | 8.57 | 8.16 | 29.56 | 26.25 | 2.92 | 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) (Note 2) |
|----------|--------------------|---------|------------------|-----------|----------------|-----------------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR02 | 20210403 | Sunny | Moderate | Mid-Flood | Middle | 4.95 | 8:47 | 8.44 | 8.19 | 29.11 | 26.47 | 2.87 | 2.5 |
| WSR02 | 20210403 | Sunny | Moderate | Mid-Flood | Bottom | 8.90 | 8:46 | 8.51 | 8.07 | 29.45 | 26.18 | 2.61 | 2.5 |
| WSR02 | 20210403 | Sunny | Moderate | Mid-Flood | Bottom | 8.90 | 8:46 | 8.19 | 8.12 | 29.28 | 26.27 | 2.22 | 2.5 |
| WSR02 | 20210406 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 8:44 | 8.75 | 8.25 | 30.00 | 22.42 | 3.00 | 4.3 |
| WSR02 | 20210406 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 8:44 | 8.50 | 8.22 | 29.74 | 22.42 | 3.14 | 4.1 |
| WSR02 | 20210406 | Cloudy | Moderate | Mid-Flood | Middle | 4.70 | 8:43 | 8.44 | 8.40 | 29.76 | 22.63 | 2.44 | 3.8 |
| WSR02 | 20210406 | Cloudy | Moderate | Mid-Flood | Middle | 4.70 | 8:43 | 8.39 | 8.22 | 30.12 | 22.53 | 2.31 | 3.9 |
| WSR02 | 20210406 | Cloudy | Moderate | Mid-Flood | Bottom | 8.40 | 8:42 | 8.21 | 8.19 | 29.88 | 22.53 | 2.69 | 5.9 |
| WSR02 | 20210406 | Cloudy | Moderate | Mid-Flood | Bottom | 8.40 | 8:42 | 8.19 | 8.28 | 29.96 | 22.61 | 2.92 | 6.5 |
| WSR02 | 20210408 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 14:28 | 8.75 | 8.53 | 30.03 | 23.79 | 2.87 | 2.5 |
| WSR02 | 20210408 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 14:28 | 8.85 | 8.59 | 30.26 | 23.85 | 2.90 | 2.5 |
| WSR02 | 20210408 | Cloudy | Moderate | Mid-Flood | Middle | 4.85 | 14:27 | 8.99 | 8.35 | 30.43 | 23.72 | 2.33 | 4.8 |
| WSR02 | 20210408 | Cloudy | Moderate | Mid-Flood | Middle | 4.85 | 14:27 | 8.63 | 8.59 | 30.07 | 23.91 | 2.39 | 2.5 |
| WSR02 | 20210408 | Cloudy | Moderate | Mid-Flood | Bottom | 8.70 | 14:26 | 9.11 | 8.54 | 30.69 | 23.70 | 2.26 | 2.5 |
| WSR02 | 20210408 | Cloudy | Moderate | Mid-Flood | Bottom | 8.70 | 14:26 | 9.08 | 8.48 | 29.75 | 23.90 | 2.22 | 2.5 |
| WSR02 | 20210410 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:08 | 8.49 | 8.34 | 31.58 | 23.69 | 2.59 | 2.5 |
| WSR02 | 20210410 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:08 | 9.09 | 8.32 | 31.13 | 23.47 | 2.62 | 2.5 |
| WSR02 | 20210410 | Cloudy | Moderate | Mid-Flood | Middle | 4.85 | 16:07 | 8.34 | 8.30 | 31.16 | 23.56 | 2.56 | 2.6 |
| WSR02 | 20210410 | Cloudy | Moderate | Mid-Flood | Middle | 4.85 | 16:07 | 8.83 | 8.22 | 31.28 | 23.43 | 2.41 | 2.5 |
| WSR02 | 20210410 | Cloudy | Moderate | Mid-Flood | Bottom | 8.70 | 16:06 | 8.99 | 8.50 | 31.25 | 23.62 | 2.48 | 2.7 |
| WSR02 | 20210410 | Cloudy | Moderate | Mid-Flood | Bottom | 8.70 | 16:06 | 8.39 | 8.35 | 31.82 | 23.67 | 2.29 | 2.8 |
| WSR02 | 20210413 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 16:46 | 8.72 | 8.45 | 31.77 | 27.94 | 2.47 | 3.1 |
| WSR02 | 20210413 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 16:46 | 9.46 | 8.23 | 31.49 | 27.93 | 2.81 | 4.1 |
| WSR02 | 20210413 | Sunny | Moderate | Mid-Flood | Middle | 4.55 | 16:45 | 9.58 | 8.26 | 31.11 | 27.91 | 1.97 | 4.7 |
| WSR02 | 20210413 | Sunny | Moderate | Mid-Flood | Middle | 4.55 | 16:45 | 8.75 | 8.48 | 31.67 | 27.88 | 2.35 | 4.5 |
| WSR02 | 20210413 | Sunny | Moderate | Mid-Flood | Bottom | 8.10 | 16:44 | 9.38 | 8.28 | 31.54 | 27.88 | 1.86 | 4.2 |
| WSR02 | 20210413 | Sunny | Moderate | Mid-Flood | Bottom | 8.10 Page 10 | 16:44 | 8.96 | 8.32 | 31.08 | 27.82 | 2.10 | 4.8 |

| 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) (Note 2) |
|----------|--------------------|---------|------------------|-----------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR02 | 20210415 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 8:49 | 8.86 | 8.41 | 31.43 | 22.83 | 2.61 | 3.7 |
| WSR02 | 20210415 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 8:49 | 7.90 | 8.43 | 31.43 | 22.78 | 2.50 | 2.7 |
| WSR02 | 20210415 | Cloudy | Moderate | Mid-Flood | Middle | 4.55 | 8:48 | 8.82 | 8.37 | 31.75 | 22.74 | 2.25 | 2.5 |
| WSR02 | 20210415 | Cloudy | Moderate | Mid-Flood | Middle | 4.55 | 8:48 | 8.46 | 8.45 | 31.47 | 22.71 | 2.50 | 3.2 |
| WSR02 | 20210415 | Cloudy | Moderate | Mid-Flood | Bottom | 8.10 | 8:47 | 9.01 | 8.39 | 31.73 | 22.83 | 1.56 | 3.2 |
| WSR02 | 20210415 | Cloudy | Moderate | Mid-Flood | Bottom | 8.10 | 8:47 | 8.09 | 8.29 | 31.38 | 22.67 | 1.79 | 2.5 |
| WSR02 | 20210417 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 8:48 | 9.04 | 8.66 | 32.28 | 22.76 | 2.51 | 2.5 |
| WSR02 | 20210417 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 8:48 | 9.05 | 8.58 | 32.24 | 22.62 | 2.13 | 4.1 |
| WSR02 | 20210417 | Cloudy | Moderate | Mid-Flood | Middle | 4.95 | 8:47 | 9.58 | 8.58 | 32.23 | 22.54 | 2.59 | 3.8 |
| WSR02 | 20210417 | Cloudy | Moderate | Mid-Flood | Middle | 4.95 | 8:47 | 8.50 | 8.71 | 31.69 | 22.78 | 2.44 | 3.7 |
| WSR02 | 20210417 | Cloudy | Moderate | Mid-Flood | Bottom | 8.90 | 8:46 | 8.44 | 8.69 | 31.85 | 22.78 | 2.35 | 3.2 |
| WSR02 | 20210417 | Cloudy | Moderate | Mid-Flood | Bottom | 8.90 | 8:46 | 8.57 | 8.60 | 32.46 | 22.78 | 2.42 | 2.7 |
| WSR02 | 20210420 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 8:45 | 7.84 | 8.42 | 27.50 | 23.74 | 3.08 | 4.4 |
| WSR02 | 20210420 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 8:45 | 8.31 | 8.23 | 26.96 | 23.69 | 2.93 | 3.5 |
| WSR02 | 20210420 | Cloudy | Moderate | Mid-Flood | Middle | 4.65 | 8:44 | 8.06 | 8.33 | 26.79 | 23.73 | 2.43 | 3.4 |
| WSR02 | 20210420 | Cloudy | Moderate | Mid-Flood | Middle | 4.65 | 8:44 | 8.18 | 8.50 | 26.83 | 23.68 | 2.47 | 3.8 |
| WSR02 | 20210420 | Cloudy | Moderate | Mid-Flood | Bottom | 8.30 | 8:43 | 7.99 | 8.24 | 27.26 | 23.82 | 2.43 | 2.9 |
| WSR02 | 20210420 | Cloudy | Moderate | Mid-Flood | Bottom | 8.30 | 8:43 | 8.68 | 8.22 | 27.57 | 23.72 | 2.25 | 3.4 |
| WSR02 | 20210422 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 9:49 | 8.54 | 8.08 | 30.27 | 28.92 | 2.68 | 4.6 |
| WSR02 | 20210422 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 9:49 | 8.18 | 8.12 | 30.74 | 28.65 | 2.60 | 2.5 |
| WSR02 | 20210422 | Sunny | Moderate | Mid-Flood | Middle | 4.65 | 9:48 | 8.94 | 8.19 | 30.42 | 28.72 | 2.45 | 2.5 |
| WSR02 | 20210422 | Sunny | Moderate | Mid-Flood | Middle | 4.65 | 9:48 | 8.02 | 8.16 | 30.95 | 28.85 | 2.20 | 2.9 |
| WSR02 | 20210422 | Sunny | Moderate | Mid-Flood | Bottom | 8.30 | 9:47 | 9.14 | 8.18 | 31.06 | 28.67 | 2.23 | 3.6 |
| WSR02 | 20210422 | Sunny | Moderate | Mid-Flood | Bottom | 8.30 | 9:47 | 8.17 | 8.18 | 30.85 | 28.69 | 2.66 | 2.5 |
| WSR02 | 20210424 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 14:43 | 8.99 | 8.35 | 31.40 | 24.50 | 2.03 | 4.8 |
| WSR02 | 20210424 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 14:43 | 8.91 | 8.16 | 31.23 | 24.48 | 2.20 | 4.8 |
| WSR02 | 20210424 | Cloudy | Moderate | Mid-Flood | Middle | 4.60 | 14:42 | 8.75 | 8.17 | 31.69 | 24.40 | 2.03 | 2.6 |

| 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) (Note 2) |
|----------|--------------------|---------|------------------|-----------|----------------|-----------------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR02 | 20210424 | Cloudy | Moderate | Mid-Flood | Middle | 4.60 | 14:42 | 8.59 | 8.11 | 31.58 | 24.57 | 2.09 | 3.1 |
| WSR02 | 20210424 | Cloudy | Moderate | Mid-Flood | Bottom | 8.20 | 14:41 | 8.78 | 8.27 | 31.32 | 24.40 | 1.94 | 2.8 |
| WSR02 | 20210424 | Cloudy | Moderate | Mid-Flood | Bottom | 8.20 | 14:41 | 9.03 | 8.34 | 31.37 | 24.40 | 2.10 | 5.8 |
| WSR02 | 20210427 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:19 | 8.72 | 8.49 | 30.64 | 23.42 | 2.29 | 3.2 |
| WSR02 | 20210427 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:19 | 9.06 | 8.18 | 30.89 | 23.40 | 2.20 | 2.6 |
| WSR02 | 20210427 | Cloudy | Moderate | Mid-Flood | Middle | 4.50 | 16:18 | 8.83 | 8.21 | 30.78 | 23.34 | 2.25 | 4.4 |
| WSR02 | 20210427 | Cloudy | Moderate | Mid-Flood | Middle | 4.50 | 16:18 | 9.56 | 8.32 | 31.64 | 23.55 | 2.27 | 2.9 |
| WSR02 | 20210427 | Cloudy | Moderate | Mid-Flood | Bottom | 8.00 | 16:17 | 9.45 | 8.46 | 30.82 | 23.43 | 2.25 | 4.1 |
| WSR02 | 20210427 | Cloudy | Moderate | Mid-Flood | Bottom | 8.00 | 16:17 | 8.73 | 8.35 | 31.08 | 23.39 | 2.16 | 2.5 |
| WSR02 | 20210429 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 8:47 | 9.08 | 8.32 | 30.06 | 24.50 | 2.56 | 4.5 |
| WSR02 | 20210429 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 8:47 | 8.86 | 8.29 | 30.21 | 24.75 | 2.72 | 4.4 |
| WSR02 | 20210429 | Sunny | Moderate | Mid-Flood | Middle | 4.75 | 8:46 | 8.95 | 8.41 | 30.68 | 24.79 | 2.30 | 4.0 |
| WSR02 | 20210429 | Sunny | Moderate | Mid-Flood | Middle | 4.75 | 8:46 | 8.86 | 8.39 | 30.55 | 24.71 | 2.66 | 6.7 |
| WSR02 | 20210429 | Sunny | Moderate | Mid-Flood | Bottom | 8.50 | 8:45 | 8.85 | 8.46 | 30.32 | 24.83 | 2.54 | 4.7 |
| WSR02 | 20210429 | Sunny | Moderate | Mid-Flood | Bottom | 8.50 | 8:45 | 8.40 | 8.28 | 29.99 | 24.82 | 2.35 | 5.0 |
| WSR03 | 20210401 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 9:05 | 7.75 | 8.04 | 31.61 | 27.01 | 2.66 | 2.5 |
| WSR03 | 20210401 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 9:05 | 8.40 | 8.23 | 31.74 | 27.04 | 2.50 | 2.5 |
| WSR03 | 20210401 | Sunny | Moderate | Mid-Flood | Middle | 4.10 | 9:04 | 7.74 | 8.03 | 31.80 | 27.03 | 2.13 | 2.5 |
| WSR03 | 20210401 | Sunny | Moderate | Mid-Flood | Middle | 4.10 | 9:04 | 7.81 | 8.03 | 31.56 | 26.75 | 2.30 | 2.5 |
| WSR03 | 20210401 | Sunny | Moderate | Mid-Flood | Bottom | 7.20 | 9:03 | 9.15 | 8.18 | 31.49 | 27.15 | 1.78 | 2.5 |
| WSR03 | 20210401 | Sunny | Moderate | Mid-Flood | Bottom | 7.20 | 9:03 | 8.75 | 8.06 | 31.65 | 27.07 | 1.89 | 2.5 |
| WSR03 | 20210403 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 9:03 | 8.67 | 8.17 | 29.18 | 26.44 | 3.19 | 2.5 |
| WSR03 | 20210403 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 9:03 | 8.43 | 8.13 | 29.59 | 26.48 | 2.88 | 2.5 |
| WSR03 | 20210403 | Sunny | Moderate | Mid-Flood | Middle | 4.15 | 9:02 | 8.52 | 8.18 | 29.60 | 26.38 | 2.99 | 2.5 |
| WSR03 | 20210403 | Sunny | Moderate | Mid-Flood | Middle | 4.15 | 9:02 | 8.05 | 8.08 | 29.36 | 26.38 | 3.05 | 2.5 |
| WSR03 | 20210403 | Sunny | Moderate | Mid-Flood | Bottom | 7.30 | 9:01 | 8.55 | 8.17 | 29.12 | 26.54 | 2.89 | 2.5 |
| WSR03 | 20210403 | Sunny | Moderate | Mid-Flood | Bottom | 7.30 Page 12 | 9:01 | 8.08 | 8.14 | 29.33 | 26.35 | 2.74 | 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) (Note 2) |
|----------|--------------------|---------|------------------|-----------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR03 | 20210406 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 8:58 | 8.23 | 8.20 | 30.09 | 22.50 | 3.11 | 4.3 |
| WSR03 | 20210406 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 8:58 | 8.54 | 8.36 | 30.08 | 22.44 | 3.18 | 3.8 |
| WSR03 | 20210406 | Cloudy | Moderate | Mid-Flood | Middle | 3.95 | 8:57 | 8.39 | 8.26 | 30.15 | 22.53 | 2.92 | 3.6 |
| WSR03 | 20210406 | Cloudy | Moderate | Mid-Flood | Middle | 3.95 | 8:57 | 8.25 | 8.39 | 29.91 | 22.58 | 2.67 | 5.0 |
| WSR03 | 20210406 | Cloudy | Moderate | Mid-Flood | Bottom | 6.90 | 8:56 | 8.68 | 8.36 | 29.92 | 22.39 | 2.13 | 4.3 |
| WSR03 | 20210406 | Cloudy | Moderate | Mid-Flood | Bottom | 6.90 | 8:56 | 8.45 | 8.31 | 29.76 | 22.58 | 2.21 | 4.8 |
| WSR03 | 20210408 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 14:42 | 8.70 | 8.38 | 30.17 | 23.90 | 2.61 | 2.5 |
| WSR03 | 20210408 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 14:42 | 8.47 | 8.48 | 30.64 | 24.11 | 2.46 | 2.5 |
| WSR03 | 20210408 | Cloudy | Moderate | Mid-Flood | Middle | 3.95 | 14:41 | 8.73 | 8.47 | 30.46 | 24.09 | 2.61 | 2.5 |
| WSR03 | 20210408 | Cloudy | Moderate | Mid-Flood | Middle | 3.95 | 14:41 | 8.93 | 8.56 | 30.63 | 24.14 | 2.19 | 2.5 |
| WSR03 | 20210408 | Cloudy | Moderate | Mid-Flood | Bottom | 6.90 | 14:40 | 8.82 | 8.48 | 30.70 | 24.04 | 2.55 | 2.5 |
| WSR03 | 20210408 | Cloudy | Moderate | Mid-Flood | Bottom | 6.90 | 14:40 | 8.68 | 8.58 | 29.91 | 23.95 | 2.25 | 2.5 |
| WSR03 | 20210410 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:20 | 8.31 | 8.30 | 31.35 | 23.44 | 3.12 | 2.9 |
| WSR03 | 20210410 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:20 | 8.38 | 8.18 | 31.29 | 23.62 | 3.10 | 2.9 |
| WSR03 | 20210410 | Cloudy | Moderate | Mid-Flood | Middle | 4.10 | 16:19 | 8.82 | 8.20 | 31.64 | 23.45 | 2.59 | 2.9 |
| WSR03 | 20210410 | Cloudy | Moderate | Mid-Flood | Middle | 4.10 | 16:19 | 8.98 | 8.43 | 31.17 | 23.34 | 2.85 | 3.4 |
| WSR03 | 20210410 | Cloudy | Moderate | Mid-Flood | Bottom | 7.20 | 16:18 | 8.67 | 8.46 | 31.53 | 23.41 | 2.46 | 3.4 |
| WSR03 | 20210410 | Cloudy | Moderate | Mid-Flood | Bottom | 7.20 | 16:18 | 8.79 | 8.24 | 31.23 | 23.37 | 2.88 | 2.7 |
| WSR03 | 20210413 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 17:02 | 9.09 | 8.23 | 31.36 | 27.93 | 2.46 | 5.8 |
| WSR03 | 20210413 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 17:02 | 9.52 | 8.23 | 31.15 | 27.87 | 2.76 | 5.3 |
| WSR03 | 20210413 | Sunny | Moderate | Mid-Flood | Middle | 3.70 | 17:01 | 8.47 | 8.40 | 31.48 | 27.88 | 2.28 | 4.7 |
| WSR03 | 20210413 | Sunny | Moderate | Mid-Flood | Middle | 3.70 | 17:01 | 8.71 | 8.31 | 30.49 | 27.91 | 2.48 | 4.0 |
| WSR03 | 20210413 | Sunny | Moderate | Mid-Flood | Bottom | 6.40 | 17:00 | 9.22 | 8.18 | 31.70 | 27.85 | 1.99 | 6.6 |
| WSR03 | 20210413 | Sunny | Moderate | Mid-Flood | Bottom | 6.40 | 17:00 | 9.38 | 8.17 | 31.33 | 27.89 | 1.93 | 6.9 |
| WSR03 | 20210415 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 9:05 | 9.12 | 8.39 | 31.73 | 22.74 | 2.89 | 2.5 |
| WSR03 | 20210415 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 9:05 | 9.85 | 8.46 | 32.12 | 22.71 | 2.76 | 2.5 |
| WSR03 | 20210415 | Cloudy | Moderate | Mid-Flood | Middle | 3.70 | 9:04 | 8.95 | 8.50 | 31.54 | 22.83 | 1.68 | 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) (Note 2) |
|----------|--------------------|---------|------------------|-----------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR03 | 20210415 | Cloudy | Moderate | Mid-Flood | Middle | 3.70 | 9:04 | 8.62 | 8.32 | 31.78 | 22.82 | 1.96 | 2.5 |
| WSR03 | 20210415 | Cloudy | Moderate | Mid-Flood | Bottom | 6.40 | 9:03 | 9.10 | 8.45 | 32.13 | 22.64 | 2.02 | 2.5 |
| WSR03 | 20210415 | Cloudy | Moderate | Mid-Flood | Bottom | 6.40 | 9:03 | 8.38 | 8.33 | 31.69 | 22.80 | 2.26 | 2.5 |
| WSR03 | 20210417 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 9:04 | 8.90 | 8.80 | 31.91 | 22.81 | 2.96 | 2.5 |
| WSR03 | 20210417 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 9:04 | 9.73 | 8.62 | 31.67 | 22.55 | 3.09 | 4.3 |
| WSR03 | 20210417 | Cloudy | Moderate | Mid-Flood | Middle | 3.95 | 9:03 | 8.68 | 8.63 | 32.03 | 22.60 | 2.64 | 3.0 |
| WSR03 | 20210417 | Cloudy | Moderate | Mid-Flood | Middle | 3.95 | 9:03 | 9.05 | 8.58 | 31.95 | 22.61 | 2.61 | 4.7 |
| WSR03 | 20210417 | Cloudy | Moderate | Mid-Flood | Bottom | 6.90 | 9:02 | 8.92 | 8.65 | 32.11 | 22.57 | 2.06 | 2.8 |
| WSR03 | 20210417 | Cloudy | Moderate | Mid-Flood | Bottom | 6.90 | 9:02 | 9.79 | 8.78 | 32.33 | 22.57 | 2.29 | 2.7 |
| WSR03 | 20210420 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 9:01 | 7.69 | 8.36 | 27.00 | 23.83 | 2.97 | 3.3 |
| WSR03 | 20210420 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 9:01 | 7.97 | 8.36 | 27.31 | 23.67 | 2.66 | 3.6 |
| WSR03 | 20210420 | Cloudy | Moderate | Mid-Flood | Middle | 4.20 | 9:00 | 8.37 | 8.21 | 27.29 | 23.69 | 2.69 | 3.2 |
| WSR03 | 20210420 | Cloudy | Moderate | Mid-Flood | Middle | 4.20 | 9:00 | 8.62 | 8.20 | 27.68 | 23.84 | 2.76 | 3.5 |
| WSR03 | 20210420 | Cloudy | Moderate | Mid-Flood | Bottom | 7.40 | 8:59 | 7.59 | 8.32 | 27.21 | 23.77 | 2.55 | 3.1 |
| WSR03 | 20210420 | Cloudy | Moderate | Mid-Flood | Bottom | 7.40 | 8:59 | 8.60 | 8.42 | 27.48 | 23.66 | 2.32 | 4.2 |
| WSR03 | 20210422 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 10:05 | 9.25 | 8.07 | 30.40 | 28.74 | 2.90 | 2.5 |
| WSR03 | 20210422 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 10:05 | 9.35 | 8.18 | 30.42 | 28.97 | 2.60 | 2.5 |
| WSR03 | 20210422 | Sunny | Moderate | Mid-Flood | Middle | 3.90 | 10:04 | 9.38 | 8.17 | 31.25 | 28.99 | 2.10 | 2.6 |
| WSR03 | 20210422 | Sunny | Moderate | Mid-Flood | Middle | 3.90 | 10:04 | 8.13 | 8.15 | 30.28 | 28.87 | 2.15 | 2.6 |
| WSR03 | 20210422 | Sunny | Moderate | Mid-Flood | Bottom | 6.80 | 10:03 | 8.58 | 8.23 | 30.93 | 28.73 | 2.37 | 3.1 |
| WSR03 | 20210422 | Sunny | Moderate | Mid-Flood | Bottom | 6.80 | 10:03 | 8.31 | 8.15 | 30.36 | 28.82 | 1.98 | 2.9 |
| WSR03 | 20210424 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 14:59 | 8.86 | 8.24 | 31.42 | 24.40 | 2.40 | 4.4 |
| WSR03 | 20210424 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 14:59 | 8.84 | 8.24 | 31.23 | 24.38 | 2.19 | 2.7 |
| WSR03 | 20210424 | Cloudy | Moderate | Mid-Flood | Middle | 3.95 | 14:58 | 8.74 | 8.20 | 31.14 | 24.46 | 1.97 | 3.0 |
| WSR03 | 20210424 | Cloudy | Moderate | Mid-Flood | Middle | 3.95 | 14:58 | 8.81 | 8.36 | 31.55 | 24.35 | 1.65 | 5.2 |
| WSR03 | 20210424 | Cloudy | Moderate | Mid-Flood | Bottom | 6.90 | 14:57 | 8.82 | 8.29 | 31.31 | 24.32 | 1.63 | 4.2 |
| WSR03 | 20210424 | Cloudy | Moderate | Mid-Flood | Bottom | 6.90 | 14:57 | 8.63 | 8.28 | 31.49 | 24.48 | 1.60 | 4.1 |

| 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) (Note 2) |
|----------|--------------------|---------|------------------|-----------|----------------|-----------------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR03 | 20210427 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:35 | 8.99 | 8.20 | 30.86 | 23.24 | 2.20 | 2.5 |
| WSR03 | 20210427 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:35 | 8.89 | 8.35 | 31.54 | 23.20 | 2.46 | 2.5 |
| WSR03 | 20210427 | Cloudy | Moderate | Mid-Flood | Middle | 3.85 | 16:34 | 8.68 | 8.24 | 31.17 | 23.21 | 2.12 | 4.8 |
| WSR03 | 20210427 | Cloudy | Moderate | Mid-Flood | Middle | 3.85 | 16:34 | 9.55 | 8.34 | 31.24 | 23.42 | 2.40 | 3.1 |
| WSR03 | 20210427 | Cloudy | Moderate | Mid-Flood | Bottom | 6.70 | 16:33 | 8.46 | 8.35 | 31.11 | 23.14 | 2.05 | 3.2 |
| WSR03 | 20210427 | Cloudy | Moderate | Mid-Flood | Bottom | 6.70 | 16:33 | 9.41 | 8.50 | 31.62 | 23.34 | 2.36 | 4.6 |
| WSR03 | 20210429 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 9:01 | 8.44 | 8.32 | 30.19 | 24.89 | 2.33 | 4.5 |
| WSR03 | 20210429 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 9:01 | 8.97 | 8.22 | 30.25 | 24.66 | 2.04 | 3.0 |
| WSR03 | 20210429 | Sunny | Moderate | Mid-Flood | Middle | 3.70 | 9:00 | 8.41 | 8.26 | 30.61 | 24.69 | 2.55 | 2.9 |
| WSR03 | 20210429 | Sunny | Moderate | Mid-Flood | Middle | 3.70 | 9:00 | 8.51 | 8.34 | 29.97 | 24.75 | 2.19 | 4.5 |
| WSR03 | 20210429 | Sunny | Moderate | Mid-Flood | Bottom | 6.40 | 8:59 | 8.72 | 8.28 | 30.17 | 24.79 | 2.18 | 4.4 |
| WSR03 | 20210429 | Sunny | Moderate | Mid-Flood | Bottom | 6.40 | 8:59 | 8.97 | 8.19 | 30.11 | 24.79 | 1.83 | 4.2 |
| WSR04 | 20210401 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 9:21 | 9.20 | 8.11 | 31.32 | 26.90 | 3.11 | 2.5 |
| WSR04 | 20210401 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 9:21 | 9.60 | 8.21 | 31.48 | 26.94 | 2.64 | 2.5 |
| WSR04 | 20210401 | Sunny | Moderate | Mid-Flood | Middle | 3.75 | 9:20 | 9.34 | 8.11 | 31.11 | 27.04 | 2.41 | 2.5 |
| WSR04 | 20210401 | Sunny | Moderate | Mid-Flood | Middle | 3.75 | 9:20 | 8.94 | 8.12 | 31.56 | 27.14 | 2.62 | 2.5 |
| WSR04 | 20210401 | Sunny | Moderate | Mid-Flood | Bottom | 6.50 | 9:19 | 8.16 | 8.06 | 31.19 | 27.10 | 2.11 | 2.5 |
| WSR04 | 20210401 | Sunny | Moderate | Mid-Flood | Bottom | 6.50 | 9:19 | 7.80 | 8.12 | 31.34 | 27.01 | 2.07 | 2.5 |
| WSR04 | 20210403 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 9:17 | 8.67 | 8.15 | 29.18 | 26.31 | 2.92 | 2.5 |
| WSR04 | 20210403 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 9:17 | 8.28 | 8.09 | 29.52 | 26.62 | 2.65 | 2.5 |
| WSR04 | 20210403 | Sunny | Moderate | Mid-Flood | Middle | 3.65 | 9:16 | 8.22 | 8.06 | 29.65 | 26.70 | 2.46 | 2.5 |
| WSR04 | 20210403 | Sunny | Moderate | Mid-Flood | Middle | 3.65 | 9:16 | 8.20 | 8.25 | 29.62 | 26.45 | 2.60 | 2.5 |
| WSR04 | 20210403 | Sunny | Moderate | Mid-Flood | Bottom | 6.30 | 9:15 | 8.26 | 8.06 | 29.32 | 26.40 | 2.77 | 2.5 |
| WSR04 | 20210403 | Sunny | Moderate | Mid-Flood | Bottom | 6.30 | 9:15 | 8.28 | 8.02 | 29.51 | 26.77 | 2.59 | 2.5 |
| WSR04 | 20210406 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 9:10 | 8.56 | 8.37 | 29.78 | 22.47 | 2.75 | 4.6 |
| WSR04 | 20210406 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 9:10 | 8.59 | 8.29 | 30.14 | 22.37 | 2.60 | 4.5 |
| WSR04 | 20210406 | Cloudy | Moderate | Mid-Flood | Middle | 3.35 Page 15 | 9:09 | 8.47 | 8.38 | 30.13 | 22.60 | 2.93 | 4.2 |

| 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) (Note 2) |
|----------|--------------------|---------|------------------|-----------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR04 | 20210406 | Cloudy | Moderate | Mid-Flood | Middle | 3.35 | 9:09 | 8.75 | 8.31 | 29.86 | 22.52 | 2.45 | 6.1 |
| WSR04 | 20210406 | Cloudy | Moderate | Mid-Flood | Bottom | 5.70 | 9:08 | 8.26 | 8.33 | 30.13 | 22.63 | 2.59 | 6.4 |
| WSR04 | 20210406 | Cloudy | Moderate | Mid-Flood | Bottom | 5.70 | 9:08 | 8.32 | 8.39 | 30.09 | 22.42 | 2.64 | 6.2 |
| WSR04 | 20210408 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 14:56 | 8.47 | 8.59 | 30.25 | 24.02 | 2.70 | 2.5 |
| WSR04 | 20210408 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 14:56 | 9.08 | 8.51 | 30.51 | 24.14 | 2.47 | 2.5 |
| WSR04 | 20210408 | Cloudy | Moderate | Mid-Flood | Middle | 3.90 | 14:55 | 8.52 | 8.45 | 30.65 | 23.86 | 2.93 | 2.5 |
| WSR04 | 20210408 | Cloudy | Moderate | Mid-Flood | Middle | 3.90 | 14:55 | 8.66 | 8.50 | 30.42 | 24.00 | 2.48 | 2.5 |
| WSR04 | 20210408 | Cloudy | Moderate | Mid-Flood | Bottom | 6.80 | 14:54 | 9.21 | 8.35 | 29.74 | 23.85 | 2.72 | 2.5 |
| WSR04 | 20210408 | Cloudy | Moderate | Mid-Flood | Bottom | 6.80 | 14:54 | 8.80 | 8.36 | 30.65 | 24.15 | 2.29 | 2.5 |
| WSR04 | 20210410 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:34 | 9.11 | 8.28 | 31.59 | 23.61 | 3.23 | 2.5 |
| WSR04 | 20210410 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:34 | 8.31 | 8.20 | 31.34 | 23.60 | 3.37 | 3.5 |
| WSR04 | 20210410 | Cloudy | Moderate | Mid-Flood | Middle | 3.40 | 16:33 | 8.70 | 8.51 | 31.10 | 23.45 | 2.91 | 2.8 |
| WSR04 | 20210410 | Cloudy | Moderate | Mid-Flood | Middle | 3.40 | 16:33 | 9.01 | 8.36 | 31.23 | 23.42 | 2.80 | 3.6 |
| WSR04 | 20210410 | Cloudy | Moderate | Mid-Flood | Bottom | 5.80 | 16:32 | 8.45 | 8.43 | 31.14 | 23.51 | 2.57 | 3.3 |
| WSR04 | 20210410 | Cloudy | Moderate | Mid-Flood | Bottom | 5.80 | 16:32 | 9.10 | 8.33 | 31.28 | 23.60 | 2.69 | 4.5 |
| WSR04 | 20210413 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 17:15 | 8.95 | 8.44 | 30.71 | 27.89 | 2.61 | 4.4 |
| WSR04 | 20210413 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 17:15 | 9.11 | 8.17 | 31.58 | 27.93 | 2.48 | 4.9 |
| WSR04 | 20210413 | Sunny | Moderate | Mid-Flood | Middle | 3.65 | 17:14 | 8.76 | 8.32 | 31.55 | 28.00 | 2.34 | 6.1 |
| WSR04 | 20210413 | Sunny | Moderate | Mid-Flood | Middle | 3.65 | 17:14 | 8.84 | 8.36 | 31.75 | 28.01 | 2.59 | 5.5 |
| WSR04 | 20210413 | Sunny | Moderate | Mid-Flood | Bottom | 6.30 | 17:13 | 9.83 | 8.38 | 31.62 | 27.83 | 1.86 | 6.7 |
| WSR04 | 20210413 | Sunny | Moderate | Mid-Flood | Bottom | 6.30 | 17:13 | 9.97 | 8.21 | 31.65 | 27.93 | 1.67 | 4.2 |
| WSR04 | 20210415 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 9:21 | 9.15 | 8.31 | 32.10 | 22.73 | 2.05 | 2.5 |
| WSR04 | 20210415 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 9:21 | 9.77 | 8.36 | 32.09 | 22.87 | 1.86 | 2.5 |
| WSR04 | 20210415 | Cloudy | Moderate | Mid-Flood | Middle | 3.75 | 9:20 | 9.55 | 8.35 | 31.64 | 22.83 | 2.03 | 2.5 |
| WSR04 | 20210415 | Cloudy | Moderate | Mid-Flood | Middle | 3.75 | 9:20 | 8.79 | 8.53 | 32.00 | 22.89 | 1.85 | 2.5 |
| WSR04 | 20210415 | Cloudy | Moderate | Mid-Flood | Bottom | 6.50 | 9:19 | 8.71 | 8.43 | 31.43 | 22.74 | 1.41 | 2.5 |
| WSR04 | 20210415 | Cloudy | Moderate | Mid-Flood | Bottom | 6.50 | 9:19 | 9.46 | 8.47 | 31.71 | 22.81 | 1.36 | 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) (Note 2) |
|----------|--------------------|---------|------------------|-----------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR04 | 20210417 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 9:18 | 8.72 | 8.71 | 32.32 | 22.79 | 2.73 | 3.5 |
| WSR04 | 20210417 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 9:18 | 9.73 | 8.74 | 32.22 | 22.55 | 3.02 | 4.1 |
| WSR04 | 20210417 | Cloudy | Moderate | Mid-Flood | Middle | 3.35 | 9:17 | 8.57 | 8.72 | 32.30 | 22.60 | 2.14 | 3.9 |
| WSR04 | 20210417 | Cloudy | Moderate | Mid-Flood | Middle | 3.35 | 9:17 | 9.71 | 8.75 | 31.93 | 22.72 | 2.34 | 4.2 |
| WSR04 | 20210417 | Cloudy | Moderate | Mid-Flood | Bottom | 5.70 | 9:16 | 8.36 | 8.68 | 32.12 | 22.55 | 1.91 | 3.2 |
| WSR04 | 20210417 | Cloudy | Moderate | Mid-Flood | Bottom | 5.70 | 9:16 | 9.64 | 8.56 | 32.07 | 22.58 | 2.21 | 3.6 |
| WSR04 | 20210420 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 9:17 | 7.93 | 8.37 | 26.89 | 23.80 | 3.15 | 8.0 |
| WSR04 | 20210420 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 9:17 | 8.37 | 8.40 | 27.12 | 23.73 | 2.94 | 5.0 |
| WSR04 | 20210420 | Cloudy | Moderate | Mid-Flood | Middle | 3.85 | 9:16 | 8.16 | 8.26 | 27.05 | 23.76 | 2.19 | 4.3 |
| WSR04 | 20210420 | Cloudy | Moderate | Mid-Flood | Middle | 3.85 | 9:16 | 8.75 | 8.47 | 27.32 | 23.71 | 2.41 | 4.3 |
| WSR04 | 20210420 | Cloudy | Moderate | Mid-Flood | Bottom | 6.70 | 9:15 | 7.48 | 8.44 | 27.64 | 23.68 | 2.61 | 4.6 |
| WSR04 | 20210420 | Cloudy | Moderate | Mid-Flood | Bottom | 6.70 | 9:15 | 8.43 | 8.18 | 27.59 | 23.78 | 2.53 | 4.2 |
| WSR04 | 20210422 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 10:21 | 8.42 | 8.14 | 30.86 | 28.72 | 2.67 | 4.5 |
| WSR04 | 20210422 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 10:21 | 8.19 | 8.07 | 30.64 | 28.77 | 2.85 | 2.5 |
| WSR04 | 20210422 | Sunny | Moderate | Mid-Flood | Middle | 3.40 | 10:20 | 8.19 | 8.09 | 30.79 | 28.88 | 2.23 | 3.5 |
| WSR04 | 20210422 | Sunny | Moderate | Mid-Flood | Middle | 3.40 | 10:20 | 9.08 | 8.12 | 31.09 | 28.88 | 1.87 | 3.4 |
| WSR04 | 20210422 | Sunny | Moderate | Mid-Flood | Bottom | 5.80 | 10:19 | 8.00 | 8.11 | 30.83 | 28.93 | 2.06 | 3.0 |
| WSR04 | 20210422 | Sunny | Moderate | Mid-Flood | Bottom | 5.80 | 10:19 | 8.32 | 8.11 | 30.50 | 28.98 | 2.08 | 3.7 |
| WSR04 | 20210424 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 15:15 | 8.95 | 8.11 | 31.19 | 24.24 | 2.51 | 3.7 |
| WSR04 | 20210424 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 15:15 | 9.56 | 8.27 | 31.43 | 24.24 | 2.37 | 4.6 |
| WSR04 | 20210424 | Cloudy | Moderate | Mid-Flood | Middle | 3.85 | 15:14 | 9.60 | 8.33 | 31.38 | 24.32 | 2.05 | 3.7 |
| WSR04 | 20210424 | Cloudy | Moderate | Mid-Flood | Middle | 3.85 | 15:14 | 8.73 | 8.24 | 31.65 | 24.46 | 2.39 | 5.0 |
| WSR04 | 20210424 | Cloudy | Moderate | Mid-Flood | Bottom | 6.70 | 15:13 | 9.39 | 8.32 | 31.13 | 24.33 | 2.05 | 3.3 |
| WSR04 | 20210424 | Cloudy | Moderate | Mid-Flood | Bottom | 6.70 | 15:13 | 8.71 | 8.29 | 31.35 | 24.42 | 1.86 | 2.6 |
| WSR04 | 20210427 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:51 | 9.60 | 8.46 | 31.84 | 23.15 | 2.49 | 3.3 |
| WSR04 | 20210427 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:51 | 9.91 | 8.27 | 31.45 | 23.27 | 2.79 | 2.5 |
| WSR04 | 20210427 | Cloudy | Moderate | Mid-Flood | Middle | 3.65 | 16:50 | 9.70 | 8.22 | 31.08 | 23.36 | 2.03 | 2.5 |

Contract No. 13/WSD/17

| 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) (Note 2) |
|----------|--------------------|---------|------------------|-----------|----------------|------------------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR04 | 20210427 | Cloudy | Moderate | Mid-Flood | Middle | 3.65 | 16:50 | 9.59 | 8.41 | 30.69 | 23.41 | 2.27 | 3.3 |
| WSR04 | 20210427 | Cloudy | Moderate | Mid-Flood | Bottom | 6.30 | 16:49 | 8.61 | 8.20 | 31.19 | 23.17 | 1.89 | 2.5 |
| WSR04 | 20210427 | Cloudy | Moderate | Mid-Flood | Bottom | 6.30 | 16:49 | 9.77 | 8.35 | 30.70 | 23.39 | 1.68 | 2.5 |
| WSR04 | 20210429 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 9:15 | 8.88 | 8.42 | 30.69 | 24.86 | 2.28 | 5.1 |
| WSR04 | 20210429 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 9:15 | 8.94 | 8.33 | 30.39 | 24.86 | 2.60 | 4.7 |
| WSR04 | 20210429 | Sunny | Moderate | Mid-Flood | Middle | 3.60 | 9:14 | 8.56 | 8.41 | 30.54 | 24.82 | 2.31 | 3.1 |
| WSR04 | 20210429 | Sunny | Moderate | Mid-Flood | Middle | 3.60 | 9:14 | 8.59 | 8.43 | 30.15 | 25.01 | 2.59 | 2.5 |
| WSR04 | 20210429 | Sunny | Moderate | Mid-Flood | Bottom | 6.20 | 9:13 | 8.75 | 8.20 | 30.25 | 25.02 | 1.99 | 5.5 |
| WSR04 | 20210429 | Sunny | Moderate | Mid-Flood | Bottom | 6.20 | 9:13 | 8.83 | 8.43 | 30.06 | 24.78 | 2.17 | 4.9 |
| WSR16 | 20210401 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 10:37 | 9.24 | 8.24 | 31.85 | 27.42 | 2.48 | 2.5 |
| WSR16 | 20210401 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 10:37 | 8.21 | 8.10 | 31.54 | 27.22 | 2.90 | 2.5 |
| WSR16 | 20210401 | Sunny | Moderate | Mid-Flood | Middle | 7.95 | 10:36 | 7.87 | 8.06 | 31.89 | 27.25 | 2.31 | 2.5 |
| WSR16 | 20210401 | Sunny | Moderate | Mid-Flood | Middle | 7.95 | 10:36 | 8.52 | 8.24 | 31.45 | 27.41 | 2.68 | 2.5 |
| WSR16 | 20210401 | Sunny | Moderate | Mid-Flood | Bottom | 14.90 | 10:35 | 8.16 | 8.25 | 31.11 | 27.39 | 2.10 | 2.5 |
| WSR16 | 20210401 | Sunny | Moderate | Mid-Flood | Bottom | 14.90 | 10:35 | 9.26 | 8.13 | 31.38 | 27.46 | 2.17 | 2.5 |
| WSR16 | 20210403 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 10:26 | 8.36 | 8.14 | 29.58 | 27.02 | 2.87 | 2.5 |
| WSR16 | 20210403 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 10:26 | 8.33 | 8.12 | 29.24 | 26.88 | 2.79 | 2.5 |
| WSR16 | 20210403 | Sunny | Moderate | Mid-Flood | Middle | 8.55 | 10:25 | 8.19 | 8.05 | 29.47 | 27.25 | 2.76 | 2.5 |
| WSR16 | 20210403 | Sunny | Moderate | Mid-Flood | Middle | 8.55 | 10:25 | 8.66 | 8.13 | 29.50 | 27.06 | 2.86 | 2.5 |
| WSR16 | 20210403 | Sunny | Moderate | Mid-Flood | Bottom | 16.10 | 10:24 | 8.17 | 8.06 | 29.48 | 26.97 | 2.72 | 2.5 |
| WSR16 | 20210403 | Sunny | Moderate | Mid-Flood | Bottom | 16.10 | 10:24 | 8.14 | 8.24 | 29.32 | 26.85 | 2.86 | 2.5 |
| WSR16 | 20210406 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 10:15 | 8.72 | 8.35 | 30.08 | 22.73 | 2.73 | 4.1 |
| WSR16 | 20210406 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 10:15 | 8.51 | 8.29 | 30.12 | 22.71 | 3.01 | 4.1 |
| WSR16 | 20210406 | Cloudy | Moderate | Mid-Flood | Middle | 8.65 | 10:14 | 8.41 | 8.20 | 29.75 | 22.57 | 2.87 | 6.7 |
| WSR16 | 20210406 | Cloudy | Moderate | Mid-Flood | Middle | 8.65 | 10:14 | 8.73 | 8.37 | 29.88 | 22.72 | 2.97 | 6.1 |
| WSR16 | 20210406 | Cloudy | Moderate | Mid-Flood | Bottom | 16.30 | 10:13 | 8.31 | 8.27 | 30.03 | 22.74 | 2.67 | 5.0 |
| WSR16 | 20210406 | Cloudy | Moderate | Mid-Flood | Bottom | 16.30 | 10:13 | 8.54 | 8.38 | 30.11 | 22.74 | 2.23 | 4.3 |
| WSR16 | 20210406 | Cloudy | Moderate | Mid-Flood | Bottom | 16.30 Page 18 | | 8.54 | 8.38 | 30.11 | 22.74 | 2.23 | 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) (Note 2) |
|----------|--------------------|---------|------------------|-----------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR16 | 20210408 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:04 | 9.16 | 8.41 | 29.77 | 24.13 | 2.54 | 2.5 |
| WSR16 | 20210408 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:04 | 8.77 | 8.44 | 30.28 | 23.95 | 2.95 | 5.7 |
| WSR16 | 20210408 | Cloudy | Moderate | Mid-Flood | Middle | 8.00 | 16:03 | 8.55 | 8.52 | 29.86 | 24.14 | 2.91 | 2.5 |
| WSR16 | 20210408 | Cloudy | Moderate | Mid-Flood | Middle | 8.00 | 16:03 | 8.54 | 8.52 | 30.63 | 24.13 | 2.44 | 2.5 |
| WSR16 | 20210408 | Cloudy | Moderate | Mid-Flood | Bottom | 15.00 | 16:02 | 9.05 | 8.33 | 29.99 | 24.02 | 2.64 | 2.5 |
| WSR16 | 20210408 | Cloudy | Moderate | Mid-Flood | Bottom | 15.00 | 16:02 | 8.62 | 8.39 | 30.15 | 24.08 | 2.32 | 2.5 |
| WSR16 | 20210410 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 17:33 | 8.88 | 8.46 | 31.43 | 23.16 | 2.88 | 4.3 |
| WSR16 | 20210410 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 17:33 | 8.82 | 8.48 | 31.72 | 23.16 | 2.96 | 5.7 |
| WSR16 | 20210410 | Cloudy | Moderate | Mid-Flood | Middle | 7.85 | 17:32 | 8.67 | 8.30 | 31.78 | 23.30 | 2.87 | 4.0 |
| WSR16 | 20210410 | Cloudy | Moderate | Mid-Flood | Middle | 7.85 | 17:32 | 8.61 | 8.38 | 31.09 | 23.16 | 2.72 | 4.6 |
| WSR16 | 20210410 | Cloudy | Moderate | Mid-Flood | Bottom | 14.70 | 17:31 | 8.84 | 8.27 | 31.68 | 23.36 | 2.32 | 3.2 |
| WSR16 | 20210410 | Cloudy | Moderate | Mid-Flood | Bottom | 14.70 | 17:31 | 8.26 | 8.46 | 31.29 | 23.40 | 2.69 | 2.5 |
| WSR16 | 20210413 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 18:28 | 8.96 | 8.17 | 31.82 | 27.81 | 2.51 | 6.1 |
| WSR16 | 20210413 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 18:28 | 9.04 | 8.30 | 31.81 | 27.72 | 2.50 | 5.2 |
| WSR16 | 20210413 | Sunny | Moderate | Mid-Flood | Middle | 8.10 | 18:27 | 8.44 | 8.42 | 30.53 | 27.75 | 2.32 | 4.1 |
| WSR16 | 20210413 | Sunny | Moderate | Mid-Flood | Middle | 8.10 | 18:27 | 8.73 | 8.31 | 30.52 | 27.87 | 2.09 | 6.0 |
| WSR16 | 20210413 | Sunny | Moderate | Mid-Flood | Bottom | 15.20 | 18:26 | 8.81 | 8.44 | 30.66 | 27.91 | 2.15 | 3.4 |
| WSR16 | 20210413 | Sunny | Moderate | Mid-Flood | Bottom | 15.20 | 18:26 | 9.22 | 8.47 | 31.37 | 27.82 | 2.27 | 4.7 |
| WSR16 | 20210415 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 10:37 | 8.04 | 8.42 | 31.52 | 22.81 | 2.72 | 2.5 |
| WSR16 | 20210415 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 10:37 | 9.31 | 8.34 | 31.65 | 22.86 | 2.45 | 2.5 |
| WSR16 | 20210415 | Cloudy | Moderate | Mid-Flood | Middle | 7.85 | 10:36 | 8.60 | 8.52 | 31.43 | 22.89 | 2.59 | 2.5 |
| WSR16 | 20210415 | Cloudy | Moderate | Mid-Flood | Middle | 7.85 | 10:36 | 9.57 | 8.32 | 32.00 | 22.81 | 2.61 | 2.5 |
| WSR16 | 20210415 | Cloudy | Moderate | Mid-Flood | Bottom | 14.70 | 10:35 | 9.65 | 8.31 | 31.92 | 22.97 | 1.64 | 3.1 |
| WSR16 | 20210415 | Cloudy | Moderate | Mid-Flood | Bottom | 14.70 | 10:35 | 9.60 | 8.48 | 32.10 | 22.96 | 1.55 | 2.5 |
| WSR16 | 20210417 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 10:29 | 9.12 | 8.70 | 32.30 | 22.69 | 3.15 | 2.6 |
| WSR16 | 20210417 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 10:29 | 8.56 | 8.77 | 32.23 | 22.63 | 3.00 | 2.9 |
| WSR16 | 20210417 | Cloudy | Moderate | Mid-Flood | Middle | 8.40 | 10:28 | 8.89 | 8.62 | 32.18 | 22.66 | 2.27 | 2.5 |

Contract No. 13/WSD/17

| 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) (Note 2) |
|----------|--------------------|---------|------------------|-----------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR16 | 20210417 | Cloudy | Moderate | Mid-Flood | Middle | 8.40 | 10:28 | 9.35 | 8.70 | 31.82 | 22.71 | 2.62 | 3.0 |
| WSR16 | 20210417 | Cloudy | Moderate | Mid-Flood | Bottom | 15.80 | 10:27 | 9.47 | 8.59 | 32.29 | 22.58 | 2.37 | 5.2 |
| WSR16 | 20210417 | Cloudy | Moderate | Mid-Flood | Bottom | 15.80 | 10:27 | 9.51 | 8.80 | 31.99 | 22.62 | 2.58 | 3.1 |
| WSR16 | 20210420 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 10:23 | 7.36 | 8.23 | 25.37 | 23.97 | 3.56 | 4.1 |
| WSR16 | 20210420 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 10:23 | 7.37 | 8.25 | 26.59 | 23.78 | 4.03 | 4.1 |
| WSR16 | 20210420 | Cloudy | Moderate | Mid-Flood | Middle | 8.25 | 10:25 | 7.38 | 8.21 | 27.03 | 24.02 | 4.01 | 3.2 |
| WSR16 | 20210420 | Cloudy | Moderate | Mid-Flood | Middle | 8.25 | 10:25 | 7.49 | 8.48 | 27.16 | 24.09 | 3.53 | 3.6 |
| WSR16 | 20210420 | Cloudy | Moderate | Mid-Flood | Bottom | 15.50 | 10:25 | 7.71 | 8.28 | 27.71 | 23.84 | 2.03 | 4.4 |
| WSR16 | 20210420 | Cloudy | Moderate | Mid-Flood | Bottom | 15.50 | 10:25 | 8.41 | 8.33 | 27.17 | 23.64 | 1.92 | 5.4 |
| WSR16 | 20210422 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 11:37 | 8.46 | 8.08 | 31.08 | 28.95 | 2.21 | 2.5 |
| WSR16 | 20210422 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 11:37 | 9.07 | 8.16 | 30.54 | 29.00 | 2.25 | 2.5 |
| WSR16 | 20210422 | Sunny | Moderate | Mid-Flood | Middle | 7.70 | 11:36 | 8.74 | 8.21 | 30.73 | 28.96 | 1.81 | 2.5 |
| WSR16 | 20210422 | Sunny | Moderate | Mid-Flood | Middle | 7.70 | 11:36 | 9.15 | 8.13 | 31.05 | 28.94 | 2.16 | 2.5 |
| WSR16 | 20210422 | Sunny | Moderate | Mid-Flood | Bottom | 14.40 | 11:35 | 8.85 | 8.19 | 30.68 | 28.90 | 2.45 | 2.5 |
| WSR16 | 20210422 | Sunny | Moderate | Mid-Flood | Bottom | 14.40 | 11:35 | 8.47 | 8.10 | 30.19 | 28.97 | 2.31 | 2.5 |
| WSR16 | 20210424 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:31 | 9.02 | 8.12 | 31.19 | 24.22 | 2.05 | 2.5 |
| WSR16 | 20210424 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:31 | 9.49 | 8.34 | 31.59 | 24.25 | 2.37 | 2.8 |
| WSR16 | 20210424 | Cloudy | Moderate | Mid-Flood | Middle | 7.60 | 16:30 | 8.48 | 8.17 | 31.60 | 24.15 | 2.25 | 3.5 |
| WSR16 | 20210424 | Cloudy | Moderate | Mid-Flood | Middle | 7.60 | 16:30 | 9.13 | 8.29 | 31.51 | 24.21 | 2.11 | 3.1 |
| WSR16 | 20210424 | Cloudy | Moderate | Mid-Flood | Bottom | 14.20 | 16:29 | 9.15 | 8.34 | 31.35 | 24.16 | 2.37 | 2.5 |
| WSR16 | 20210424 | Cloudy | Moderate | Mid-Flood | Bottom | 14.20 | 16:29 | 9.63 | 8.15 | 31.31 | 24.14 | 2.02 | 3.7 |
| WSR16 | 20210427 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 18:05 | 9.21 | 8.21 | 30.56 | 23.27 | 2.29 | 2.5 |
| WSR16 | 20210427 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 18:05 | 9.73 | 8.37 | 31.32 | 23.23 | 2.13 | 3.1 |
| WSR16 | 20210427 | Cloudy | Moderate | Mid-Flood | Middle | 8.30 | 18:04 | 8.62 | 8.23 | 30.76 | 23.03 | 2.38 | 3.5 |
| WSR16 | 20210427 | Cloudy | Moderate | Mid-Flood | Middle | 8.30 | 18:04 | 9.05 | 8.20 | 30.96 | 23.22 | 2.15 | 2.7 |
| WSR16 | 20210427 | Cloudy | Moderate | Mid-Flood | Bottom | 15.60 | 18:03 | 8.55 | 8.18 | 31.37 | 23.17 | 2.34 | 4.5 |
| WSR16 | 20210427 | Cloudy | Moderate | Mid-Flood | Bottom | 15.60 | 18:03 | 8.69 | 8.31 | 30.97 | 23.11 | 2.33 | 3.7 |
| | | | | | | Page 20 | of 20 | | | | | | |

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) (Note 2) |
|----------|--------------------|---------|------------------|-----------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR16 | 20210429 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 10:26 | 9.01 | 8.30 | 29.94 | 25.52 | 2.21 | 4.8 |
| WSR16 | 20210429 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 10:26 | 8.65 | 8.24 | 30.50 | 25.45 | 2.33 | 5.0 |
| WSR16 | 20210429 | Sunny | Moderate | Mid-Flood | Middle | 8.55 | 10:25 | 8.54 | 8.41 | 30.84 | 25.27 | 2.25 | 4.5 |
| WSR16 | 20210429 | Sunny | Moderate | Mid-Flood | Middle | 8.55 | 10:25 | 9.06 | 8.33 | 30.03 | 25.28 | 2.39 | 6.6 |
| WSR16 | 20210429 | Sunny | Moderate | Mid-Flood | Bottom | 16.10 | 10:24 | 8.96 | 8.45 | 29.91 | 25.53 | 2.04 | 7.0 |
| WSR16 | 20210429 | Sunny | Moderate | Mid-Flood | Bottom | 16.10 | 10:24 | 8.99 | 8.25 | 30.51 | 25.34 | 2.33 | 4.7 |
| WSR33 | 20210401 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 9:38 | 8.72 | 8.15 | 31.61 | 27.25 | 2.77 | 2.5 |
| WSR33 | 20210401 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 9:38 | 8.84 | 8.12 | 31.52 | 27.09 | 2.64 | 2.5 |
| WSR33 | 20210401 | Sunny | Moderate | Mid-Flood | Middle | 3.60 | 9:37 | 8.54 | 8.11 | 31.55 | 27.13 | 1.95 | 2.5 |
| WSR33 | 20210401 | Sunny | Moderate | Mid-Flood | Middle | 3.60 | 9:37 | 7.55 | 8.15 | 31.59 | 26.97 | 1.79 | 2.5 |
| WSR33 | 20210401 | Sunny | Moderate | Mid-Flood | Bottom | 6.20 | 9:36 | 7.48 | 8.05 | 31.77 | 27.20 | 2.44 | 2.5 |
| WSR33 | 20210401 | Sunny | Moderate | Mid-Flood | Bottom | 6.20 | 9:36 | 7.97 | 8.22 | 31.36 | 27.04 | 2.32 | 2.5 |
| WSR33 | 20210403 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 9:32 | 8.19 | 8.27 | 29.38 | 26.51 | 3.07 | 2.5 |
| WSR33 | 20210403 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 9:32 | 8.36 | 8.26 | 29.44 | 26.44 | 3.19 | 2.5 |
| WSR33 | 20210403 | Sunny | Moderate | Mid-Flood | Middle | 3.55 | 9:31 | 8.54 | 8.17 | 29.23 | 26.44 | 2.49 | 2.5 |
| WSR33 | 20210403 | Sunny | Moderate | Mid-Flood | Middle | 3.55 | 9:31 | 8.24 | 8.28 | 29.62 | 26.84 | 2.90 | 2.5 |
| WSR33 | 20210403 | Sunny | Moderate | Mid-Flood | Bottom | 6.10 | 9:30 | 8.46 | 8.12 | 29.49 | 26.82 | 2.92 | 2.5 |
| WSR33 | 20210403 | Sunny | Moderate | Mid-Flood | Bottom | 6.10 | 9:30 | 8.13 | 8.11 | 29.15 | 26.88 | 2.89 | 2.5 |
| WSR33 | 20210406 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 9:25 | 8.25 | 8.31 | 29.89 | 22.51 | 3.03 | 4.4 |
| WSR33 | 20210406 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 9:25 | 8.31 | 8.29 | 30.00 | 22.71 | 2.59 | 3.2 |
| WSR33 | 20210406 | Cloudy | Moderate | Mid-Flood | Middle | 3.70 | 9:24 | 8.29 | 8.28 | 29.92 | 22.53 | 2.67 | 4.7 |
| WSR33 | 20210406 | Cloudy | Moderate | Mid-Flood | Middle | 3.70 | 9:24 | 8.62 | 8.21 | 29.85 | 22.73 | 2.71 | 3.3 |
| WSR33 | 20210406 | Cloudy | Moderate | Mid-Flood | Bottom | 6.40 | 9:23 | 8.73 | 8.20 | 29.93 | 22.75 | 2.28 | 3.8 |
| WSR33 | 20210406 | Cloudy | Moderate | Mid-Flood | Bottom | 6.40 | 9:23 | 8.71 | 8.40 | 29.74 | 22.70 | 2.52 | 4.6 |
| WSR33 | 20210408 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 15:11 | 9.11 | 8.41 | 30.21 | 24.21 | 2.54 | 2.5 |
| WSR33 | 20210408 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 15:11 | 8.57 | 8.47 | 30.02 | 23.96 | 2.51 | 2.7 |
| WSR33 | 20210408 | Cloudy | Moderate | Mid-Flood | Middle | 3.65 | 15:10 | 8.91 | 8.55 | 30.68 | 24.21 | 2.33 | 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) (Note 2) |
|----------|--------------------|---------|------------------|-----------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR33 | 20210408 | Cloudy | Moderate | Mid-Flood | Middle | 3.65 | 15:10 | 8.86 | 8.55 | 30.77 | 24.08 | 2.31 | 2.5 |
| WSR33 | 20210408 | Cloudy | Moderate | Mid-Flood | Bottom | 6.30 | 15:09 | 8.67 | 8.40 | 30.49 | 24.12 | 2.25 | 2.5 |
| WSR33 | 20210408 | Cloudy | Moderate | Mid-Flood | Bottom | 6.30 | 15:09 | 8.78 | 8.50 | 30.30 | 24.18 | 1.89 | 2.5 |
| WSR33 | 20210410 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:47 | 9.21 | 8.26 | 31.10 | 23.51 | 2.94 | 3.7 |
| WSR33 | 20210410 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:47 | 8.97 | 8.39 | 31.80 | 23.54 | 3.18 | 3.0 |
| WSR33 | 20210410 | Cloudy | Moderate | Mid-Flood | Middle | 3.50 | 16:46 | 8.93 | 8.31 | 31.68 | 23.32 | 2.92 | 2.5 |
| WSR33 | 20210410 | Cloudy | Moderate | Mid-Flood | Middle | 3.50 | 16:46 | 8.61 | 8.45 | 31.37 | 23.24 | 3.17 | 3.5 |
| WSR33 | 20210410 | Cloudy | Moderate | Mid-Flood | Bottom | 6.00 | 16:45 | 8.63 | 8.28 | 31.74 | 23.45 | 2.72 | 3.3 |
| WSR33 | 20210410 | Cloudy | Moderate | Mid-Flood | Bottom | 6.00 | 16:45 | 8.94 | 8.37 | 31.40 | 23.59 | 2.69 | 3.2 |
| WSR33 | 20210413 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 17:32 | 9.53 | 8.50 | 30.53 | 27.88 | 2.46 | 3.4 |
| WSR33 | 20210413 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 17:32 | 8.61 | 8.39 | 31.62 | 27.86 | 2.84 | 5.9 |
| WSR33 | 20210413 | Sunny | Moderate | Mid-Flood | Middle | 3.60 | 17:31 | 9.17 | 8.43 | 30.67 | 27.98 | 2.26 | 4.1 |
| WSR33 | 20210413 | Sunny | Moderate | Mid-Flood | Middle | 3.60 | 17:31 | 9.22 | 8.21 | 30.64 | 27.99 | 2.08 | 5.9 |
| WSR33 | 20210413 | Sunny | Moderate | Mid-Flood | Bottom | 6.20 | 17:30 | 8.50 | 8.37 | 31.77 | 27.91 | 2.09 | 7.0 |
| WSR33 | 20210413 | Sunny | Moderate | Mid-Flood | Bottom | 6.20 | 17:30 | 8.60 | 8.39 | 31.28 | 27.99 | 2.28 | 6.8 |
| WSR33 | 20210415 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 9:38 | 9.93 | 8.49 | 31.49 | 22.79 | 2.52 | 2.5 |
| WSR33 | 20210415 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 9:38 | 8.18 | 8.34 | 32.01 | 22.89 | 2.64 | 3.0 |
| WSR33 | 20210415 | Cloudy | Moderate | Mid-Flood | Middle | 3.85 | 9:37 | 9.74 | 8.36 | 32.07 | 22.82 | 1.78 | 3.2 |
| WSR33 | 20210415 | Cloudy | Moderate | Mid-Flood | Middle | 3.85 | 9:37 | 9.27 | 8.49 | 31.89 | 22.83 | 1.58 | 2.5 |
| WSR33 | 20210415 | Cloudy | Moderate | Mid-Flood | Bottom | 6.70 | 9:36 | 8.92 | 8.35 | 32.08 | 22.82 | 2.33 | 2.5 |
| WSR33 | 20210415 | Cloudy | Moderate | Mid-Flood | Bottom | 6.70 | 9:36 | 9.76 | 8.42 | 31.59 | 22.75 | 2.37 | 2.6 |
| WSR33 | 20210417 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 9:35 | 9.21 | 8.71 | 31.74 | 22.72 | 2.99 | 3.0 |
| WSR33 | 20210417 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 9:35 | 9.03 | 8.68 | 31.66 | 22.59 | 3.12 | 2.9 |
| WSR33 | 20210417 | Cloudy | Moderate | Mid-Flood | Middle | 3.85 | 9:34 | 9.82 | 8.73 | 32.02 | 22.54 | 2.30 | 4.0 |
| WSR33 | 20210417 | Cloudy | Moderate | Mid-Flood | Middle | 3.85 | 9:34 | 10.12 | 8.56 | 31.84 | 22.57 | 2.12 | 3.7 |
| WSR33 | 20210417 | Cloudy | Moderate | Mid-Flood | Bottom | 6.70 | 9:33 | 9.33 | 8.66 | 32.42 | 22.69 | 2.48 | 4.0 |
| WSR33 | 20210417 | Cloudy | Moderate | Mid-Flood | Bottom | 6.70 | 9:33 | 10.13 | 8.63 | 32.22 | 22.53 | 2.30 | 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) (Note 2) |
|----------|--------------------|---------|------------------|-----------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR33 | 20210420 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 9:31 | 7.81 | 8.20 | 27.52 | 23.80 | 3.20 | 4.7 |
| WSR33 | 20210420 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 9:31 | 8.50 | 8.50 | 27.80 | 23.67 | 3.19 | 5.0 |
| WSR33 | 20210420 | Cloudy | Moderate | Mid-Flood | Middle | 3.70 | 9:30 | 7.85 | 8.39 | 26.95 | 23.76 | 2.28 | 5.4 |
| WSR33 | 20210420 | Cloudy | Moderate | Mid-Flood | Middle | 3.70 | 9:30 | 7.89 | 8.33 | 27.45 | 23.64 | 2.24 | 3.3 |
| WSR33 | 20210420 | Cloudy | Moderate | Mid-Flood | Bottom | 6.40 | 9:29 | 8.04 | 8.35 | 27.50 | 23.65 | 2.46 | 3.8 |
| WSR33 | 20210420 | Cloudy | Moderate | Mid-Flood | Bottom | 6.40 | 9:29 | 8.37 | 8.21 | 27.55 | 23.74 | 2.30 | 3.0 |
| WSR33 | 20210422 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 10:38 | 9.15 | 8.12 | 30.76 | 28.98 | 2.59 | 2.5 |
| WSR33 | 20210422 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 10:38 | 8.51 | 8.07 | 31.00 | 28.97 | 2.32 | 2.5 |
| WSR33 | 20210422 | Sunny | Moderate | Mid-Flood | Middle | 3.85 | 10:37 | 8.13 | 8.18 | 30.62 | 28.98 | 2.40 | 2.5 |
| WSR33 | 20210422 | Sunny | Moderate | Mid-Flood | Middle | 3.85 | 10:37 | 8.53 | 8.25 | 30.98 | 28.72 | 2.36 | 2.5 |
| WSR33 | 20210422 | Sunny | Moderate | Mid-Flood | Bottom | 6.70 | 10:36 | 8.97 | 8.11 | 31.16 | 28.95 | 2.41 | 2.5 |
| WSR33 | 20210422 | Sunny | Moderate | Mid-Flood | Bottom | 6.70 | 10:36 | 8.15 | 8.28 | 30.82 | 28.96 | 2.39 | 2.5 |
| WSR33 | 20210424 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 15:32 | 8.53 | 8.16 | 31.51 | 24.25 | 2.13 | 4.3 |
| WSR33 | 20210424 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 15:32 | 8.70 | 8.27 | 31.65 | 24.34 | 2.09 | 3.1 |
| WSR33 | 20210424 | Cloudy | Moderate | Mid-Flood | Middle | 3.80 | 15:31 | 9.03 | 8.36 | 31.40 | 24.25 | 2.44 | 3.4 |
| WSR33 | 20210424 | Cloudy | Moderate | Mid-Flood | Middle | 3.80 | 15:31 | 8.55 | 8.13 | 31.64 | 24.45 | 2.46 | 3.6 |
| WSR33 | 20210424 | Cloudy | Moderate | Mid-Flood | Bottom | 6.60 | 15:30 | 9.48 | 8.17 | 31.20 | 24.33 | 1.94 | 3.2 |
| WSR33 | 20210424 | Cloudy | Moderate | Mid-Flood | Bottom | 6.60 | 15:30 | 8.86 | 8.23 | 31.29 | 24.25 | 2.23 | 2.5 |
| WSR33 | 20210427 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 17:06 | 8.41 | 8.31 | 31.51 | 23.18 | 2.56 | 3.5 |
| WSR33 | 20210427 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 17:06 | 9.50 | 8.42 | 31.60 | 23.33 | 2.64 | 3.1 |
| WSR33 | 20210427 | Cloudy | Moderate | Mid-Flood | Middle | 3.65 | 17:05 | 8.50 | 8.45 | 31.35 | 23.11 | 2.19 | 3.2 |
| WSR33 | 20210427 | Cloudy | Moderate | Mid-Flood | Middle | 3.65 | 17:05 | 8.55 | 8.31 | 30.85 | 23.20 | 1.92 | 3.0 |
| WSR33 | 20210427 | Cloudy | Moderate | Mid-Flood | Bottom | 6.30 | 17:04 | 9.03 | 8.32 | 31.65 | 23.13 | 2.28 | 2.5 |
| WSR33 | 20210427 | Cloudy | Moderate | Mid-Flood | Bottom | 6.30 | 17:04 | 8.73 | 8.28 | 31.10 | 23.31 | 2.15 | 4.3 |
| WSR33 | 20210429 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 9:32 | 8.70 | 8.35 | 29.91 | 24.94 | 2.90 | 10.1 |
| WSR33 | 20210429 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 9:32 | 8.68 | 8.41 | 30.33 | 25.15 | 2.54 | 4.5 |
| WSR33 | 20210429 | Sunny | Moderate | Mid-Flood | Middle | 3.65 | 9:31 | 8.40 | 8.20 | 30.78 | 24.98 | 2.43 | 4.7 |

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) (Note 2) |
|----------|--------------------|---------|------------------|-----------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR33 | 20210429 | Sunny | Moderate | Mid-Flood | Middle | 3.65 | 9:31 | 8.55 | 8.26 | 30.06 | 25.13 | 2.13 | 3.9 |
| WSR33 | 20210429 | Sunny | Moderate | Mid-Flood | Bottom | 6.30 | 9:30 | 8.68 | 8.19 | 30.30 | 24.89 | 1.88 | 3.2 |
| WSR33 | 20210429 | Sunny | Moderate | Mid-Flood | Bottom | 6.30 | 9:30 | 8.74 | 8.24 | 30.58 | 25.12 | 1.86 | 5.2 |
| WSR36 | 20210401 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 9:54 | 8.63 | 8.11 | 31.39 | 27.20 | 2.41 | 2.5 |
| WSR36 | 20210401 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 9:54 | 7.73 | 8.24 | 31.92 | 27.19 | 2.84 | 2.5 |
| WSR36 | 20210401 | Sunny | Moderate | Mid-Flood | Middle | 3.20 | 9:54 | 8.07 | 8.19 | 31.76 | 27.35 | 1.91 | 2.5 |
| WSR36 | 20210401 | Sunny | Moderate | Mid-Flood | Middle | 3.20 | 9:54 | 8.33 | 8.19 | 31.25 | 26.98 | 1.88 | 2.5 |
| WSR36 | 20210401 | Sunny | Moderate | Mid-Flood | Bottom | 5.40 | 9:53 | 8.48 | 8.11 | 31.23 | 27.02 | 2.07 | 2.5 |
| WSR36 | 20210401 | Sunny | Moderate | Mid-Flood | Bottom | 5.40 | 9:53 | 7.48 | 8.17 | 31.42 | 27.26 | 1.79 | 2.5 |
| WSR36 | 20210403 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 9:46 | 8.48 | 8.16 | 29.36 | 26.91 | 2.96 | 2.5 |
| WSR36 | 20210403 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 9:46 | 8.30 | 8.28 | 29.38 | 26.54 | 3.14 | 2.5 |
| WSR36 | 20210403 | Sunny | Moderate | Mid-Flood | Middle | 3.35 | 9:46 | 8.06 | 8.05 | 29.21 | 26.63 | 3.17 | 2.5 |
| WSR36 | 20210403 | Sunny | Moderate | Mid-Flood | Middle | 3.35 | 9:46 | 8.42 | 8.18 | 29.54 | 27.03 | 2.92 | 2.5 |
| WSR36 | 20210403 | Sunny | Moderate | Mid-Flood | Bottom | 5.70 | 9:45 | 8.31 | 8.01 | 29.25 | 26.64 | 2.91 | 2.5 |
| WSR36 | 20210403 | Sunny | Moderate | Mid-Flood | Bottom | 5.70 | 9:45 | 8.06 | 8.17 | 29.18 | 26.55 | 2.44 | 2.5 |
| WSR36 | 20210406 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 9:39 | 8.21 | 8.22 | 29.90 | 22.77 | 3.22 | 5.0 |
| WSR36 | 20210406 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 9:39 | 8.40 | 8.32 | 29.80 | 22.71 | 2.80 | 5.1 |
| WSR36 | 20210406 | Cloudy | Moderate | Mid-Flood | Middle | 3.40 | 9:39 | 8.33 | 8.20 | 29.89 | 22.74 | 2.59 | 4.3 |
| WSR36 | 20210406 | Cloudy | Moderate | Mid-Flood | Middle | 3.40 | 9:39 | 8.70 | 8.40 | 30.13 | 22.73 | 3.02 | 6.9 |
| WSR36 | 20210406 | Cloudy | Moderate | Mid-Flood | Bottom | 5.80 | 9:38 | 8.33 | 8.34 | 29.71 | 22.59 | 2.72 | 6.2 |
| WSR36 | 20210406 | Cloudy | Moderate | Mid-Flood | Bottom | 5.80 | 9:38 | 8.48 | 8.36 | 29.81 | 22.60 | 2.69 | 2.5 |
| WSR36 | 20210408 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 15:25 | 8.80 | 8.54 | 30.49 | 23.92 | 3.21 | 2.5 |
| WSR36 | 20210408 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 15:25 | 9.24 | 8.44 | 29.98 | 24.16 | 3.17 | 2.5 |
| WSR36 | 20210408 | Cloudy | Moderate | Mid-Flood | Middle | 3.60 | 15:25 | 8.74 | 8.59 | 30.38 | 24.17 | 2.41 | 2.5 |
| WSR36 | 20210408 | Cloudy | Moderate | Mid-Flood | Middle | 3.60 | 15:25 | 9.14 | 8.35 | 30.66 | 24.19 | 2.87 | 2.9 |
| WSR36 | 20210408 | Cloudy | Moderate | Mid-Flood | Bottom | 6.20 | 15:24 | 8.89 | 8.44 | 30.26 | 24.17 | 2.53 | 2.8 |
| WSR36 | 20210408 | Cloudy | Moderate | Mid-Flood | Bottom | 6.20 | 15:24 | 8.60 | 8.55 | 30.42 | 23.90 | 2.65 | 2.8 |

| WSR3620210410 CloudyModeWSR3620210410 CloudyModeWSR3620210410 CloudyModeWSR3620210410 CloudyModeWSR3620210410 CloudyModeWSR3620210410 CloudyModeWSR3620210410 CloudyModeWSR3620210413 SunnyModeWSR3620210413 SunnyModeWSR3620210413 SunnyModeWSR3620210413 SunnyModeWSR3620210413 SunnyMode | Sea Tidal | Water Level | Depth (m) | Time (hh:mm) | DO (mg/L) | рН | Sal (ppt) | Temp (°C) | Turbidty (NTU) note 1 | SS (mg/L) (Note 2) |
|---|-----------------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR3620210410 CloudyModeWSR3620210410 CloudyModeWSR3620210410 CloudyModeWSR3620210410 CloudyModeWSR3620210413 SunnyModeWSR3620210413 SunnyModeWSR3620210413 SunnyModeWSR3620210413 SunnyModeWSR3620210413 SunnyModeWSR3620210413 SunnyMode | erate Mid-Flood | Surface | 1.00 | 17:01 | 8.91 | 8.41 | 31.82 | 23.25 | 2.94 2 | 2.5 |
| WSR3620210410 CloudyModeWSR3620210410 CloudyModeWSR3620210410 CloudyModeWSR3620210413 SunnyModeWSR3620210413 SunnyModeWSR3620210413 SunnyModeWSR3620210413 SunnyModeWSR3620210413 SunnyModeWSR3620210413 SunnyMode | erate Mid-Flood | Surface | 1.00 | 17:01 | 8.67 | 8.16 | 31.23 | 23.44 | 2.56 2 | 2.6 |
| WSR3620210410 CloudyModeWSR3620210410 CloudyModeWSR3620210413 SunnyModeWSR3620210413 SunnyModeWSR3620210413 SunnyModeWSR3620210413 SunnyModeWSR3620210413 SunnyMode | erate Mid-Flood | Middle | 3.20 | 17:01 | 9.21 | 8.40 | 31.55 | 23.38 | 2.54 3 | 3.4 |
| WSR3620210410 CloudyModeWSR3620210413 SunnyModeWSR3620210413 SunnyModeWSR3620210413 SunnyModeWSR3620210413 SunnyMode | erate Mid-Flood | Middle | 3.20 | 17:01 | 8.94 | 8.34 | 31.60 | 23.24 | 2.79 3 | 3.6 |
| WSR3620210413 SunnyModeWSR3620210413 SunnyModeWSR3620210413 SunnyModeWSR3620210413 SunnyMode | erate Mid-Flood | Bottom | 5.40 | 17:00 | 8.82 | 8.46 | 31.11 | 23.52 | 2.44 2 | 2.5 |
| WSR3620210413 SunnyModeWSR3620210413 SunnyModeWSR3620210413 SunnyMode | erate Mid-Flood | Bottom | 5.40 | 17:00 | 8.60 | 8.22 | 31.12 | 23.28 | 2.34 2 | 2.5 |
| WSR36 20210413 Sunny Mode WSR36 20210413 Sunny Mode | erate Mid-Flood | Surface | 1.00 | 17:46 | 9.96 | 8.21 | 30.55 | 27.72 | 2.27 5 | 5.5 |
| WSR36 20210413 Sunny Mode | erate Mid-Flood | Surface | 1.00 | 17:46 | 9.79 | 8.27 | 30.60 | 27.95 | 2.41 5 | 5.6 |
| , | erate Mid-Flood | Middle | 3.35 | 17:46 | 8.79 | 8.29 | 31.42 | 27.89 | 2.06 5 | 5.2 |
| | erate Mid-Flood | Middle | 3.35 | 17:46 | 9.11 | 8.50 | 31.83 | 27.68 | 1.79 4 | 1.7 |
| WSR36 20210413 Sunny Mode | erate Mid-Flood | Bottom | 5.70 | 17:45 | 9.93 | 8.40 | 31.72 | 27.95 | 2.25 5 | 5.1 |
| WSR36 20210413 Sunny Mode | erate Mid-Flood | Bottom | 5.70 | 17:45 | 9.87 | 8.31 | 31.44 | 27.61 | 2.04 5 | 5.5 |
| WSR36 20210415 Cloudy Mode | erate Mid-Flood | Surface | 1.00 | 9:54 | 7.89 | 8.30 | 31.98 | 22.83 | 2.67 2 | 2.5 |
| WSR36 20210415 Cloudy Mode | erate Mid-Flood | Surface | 1.00 | 9:54 | 8.94 | 8.33 | 31.55 | 22.81 | 2.24 2 | 2.5 |
| WSR36 20210415 Cloudy Mode | erate Mid-Flood | Middle | 3.65 | 9:54 | 8.90 | 8.37 | 32.04 | 22.84 | 2.59 3 | 3.1 |
| WSR36 20210415 Cloudy Mode | erate Mid-Flood | Middle | 3.65 | 9:54 | 9.56 | 8.36 | 31.47 | 22.88 | 2.22 2 | 2.5 |
| WSR36 20210415 Cloudy Mode | erate Mid-Flood | Bottom | 6.30 | 9:53 | 9.73 | 8.33 | 32.16 | 22.77 | 1.83 2 | 2.5 |
| WSR36 20210415 Cloudy Mode | erate Mid-Flood | Bottom | 6.30 | 9:53 | 9.18 | 8.41 | 31.93 | 22.76 | 1.76 2 | 2.5 |
| WSR36 20210417 Cloudy Mode | erate Mid-Flood | Surface | 1.00 | 9:49 | 8.65 | 8.67 | 31.93 | 22.65 | 2.14 2 | 2.5 |
| WSR36 20210417 Cloudy Mode | erate Mid-Flood | Surface | 1.00 | 9:49 | 10.06 | 8.71 | 31.79 | 22.77 | 2.42 3 | 3.9 |
| WSR36 20210417 Cloudy Mode | erate Mid-Flood | Middle | 3.50 | 9:49 | 8.82 | 8.74 | 32.39 | 22.82 | 2.62 3 | 3.2 |
| WSR36 20210417 Cloudy Mode | erate Mid-Flood | Middle | 3.50 | 9:49 | 8.59 | 8.64 | 32.18 | 22.79 | 2.66 2 | 2.5 |
| WSR36 20210417 Cloudy Mode | erate Mid-Flood | Bottom | 6.00 | 9:48 | 8.17 | 8.71 | 32.26 | 22.76 | 1.91 4 | 1.4 |
| WSR36 20210417 Cloudy Mode | erate Mid-Flood | Bottom | 6.00 | 9:48 | 8.71 | 8.59 | 32.43 | 22.66 | 2.28 2 | 2.8 |
| WSR36 20210420 Cloudy Mode | erate Mid-Flood | Surface | 1.00 | 9:51 | 6.76 | 8.25 | 27.81 | 23.94 | 3.18 2 | 2.5 |
| WSR36 20210420 Cloudy Mode | erate Mid-Flood | Surface | 1.00 | 9:51 | 7.93 | 8.25 | 24.50 | 23.90 | 3.25 4 | 1.4 |
| WSR36 20210420 Cloudy Mode | erate Mid-Flood | Middle | 3.45 | 9:53 | 7.01 | 8.22 | 27.14 | 23.94 | 4.30 3 | 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) (Note 2) |
|----------|--------------------|---------|------------------|-----------|----------------|-----------------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR36 | 20210420 | Cloudy | Moderate | Mid-Flood | Middle | 3.45 | 9:53 | 7.69 | 8.24 | 27.24 | 23.94 | 4.54 | 4.1 |
| WSR36 | 20210420 | Cloudy | Moderate | Mid-Flood | Bottom | 5.90 | 9:55 | 7.22 | 8.22 | 27.49 | 23.94 | 3.70 | 3.4 |
| WSR36 | 20210420 | Cloudy | Moderate | Mid-Flood | Bottom | 5.90 | 9:55 | 7.63 | 8.23 | 27.51 | 23.93 | 4.02 | 4.5 |
| WSR36 | 20210422 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 10:54 | 8.22 | 8.09 | 30.89 | 28.82 | 2.15 | 2.5 |
| WSR36 | 20210422 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 10:54 | 9.12 | 8.09 | 30.69 | 28.82 | 2.04 | 2.5 |
| WSR36 | 20210422 | Sunny | Moderate | Mid-Flood | Middle | 3.55 | 10:54 | 8.65 | 8.19 | 30.47 | 28.81 | 2.08 | 2.5 |
| WSR36 | 20210422 | Sunny | Moderate | Mid-Flood | Middle | 3.55 | 10:54 | 8.02 | 8.18 | 30.26 | 28.87 | 2.27 | 2.5 |
| WSR36 | 20210422 | Sunny | Moderate | Mid-Flood | Bottom | 6.10 | 10:53 | 8.93 | 8.16 | 31.08 | 28.93 | 2.13 | 2.5 |
| WSR36 | 20210422 | Sunny | Moderate | Mid-Flood | Bottom | 6.10 | 10:53 | 8.77 | 8.25 | 30.26 | 28.85 | 2.21 | 2.5 |
| WSR36 | 20210424 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 15:48 | 8.97 | 8.13 | 31.51 | 24.26 | 2.50 | 2.6 |
| WSR36 | 20210424 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 15:48 | 8.87 | 8.27 | 31.67 | 24.31 | 2.51 | 2.5 |
| WSR36 | 20210424 | Cloudy | Moderate | Mid-Flood | Middle | 3.20 | 15:48 | 8.89 | 8.31 | 31.67 | 24.46 | 2.43 | 2.7 |
| WSR36 | 20210424 | Cloudy | Moderate | Mid-Flood | Middle | 3.20 | 15:48 | 9.35 | 8.30 | 31.11 | 24.30 | 2.33 | 2.7 |
| WSR36 | 20210424 | Cloudy | Moderate | Mid-Flood | Bottom | 5.40 | 15:47 | 9.24 | 8.14 | 31.10 | 24.34 | 1.70 | 4.3 |
| WSR36 | 20210424 | Cloudy | Moderate | Mid-Flood | Bottom | 5.40 | 15:47 | 9.62 | 8.32 | 31.15 | 24.29 | 1.99 | 2.8 |
| WSR36 | 20210424 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 15:48 | 8.97 | 8.13 | 31.51 | 24.26 | 2.50 | 2.5 |
| WSR36 | 20210424 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 15:48 | 8.87 | 8.27 | 31.67 | 24.31 | 2.51 | 2.5 |
| WSR36 | 20210424 | Cloudy | Moderate | Mid-Flood | Middle | 3.20 | 15:48 | 8.89 | 8.31 | 31.67 | 24.46 | 2.43 | 2.6 |
| WSR36 | 20210424 | Cloudy | Moderate | Mid-Flood | Middle | 3.20 | 15:48 | 9.35 | 8.30 | 31.11 | 24.30 | 2.33 | 4.7 |
| WSR36 | 20210424 | Cloudy | Moderate | Mid-Flood | Bottom | 5.40 | 15:47 | 9.24 | 8.14 | 31.10 | 24.34 | 1.70 | 3.1 |
| WSR36 | 20210424 | Cloudy | Moderate | Mid-Flood | Bottom | 5.40 | 15:47 | 9.62 | 8.32 | 31.15 | 24.29 | 1.99 | 2.5 |
| WSR36 | 20210429 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 9:45 | 8.57 | 8.39 | 30.78 | 24.99 | 2.40 | 5.0 |
| WSR36 | 20210429 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 9:45 | 8.95 | 8.30 | 30.32 | 25.23 | 2.35 | 5.9 |
| WSR36 | 20210429 | Sunny | Moderate | Mid-Flood | Middle | 3.40 | 9:45 | 8.60 | 8.21 | 30.16 | 25.23 | 2.15 | 5.7 |
| WSR36 | 20210429 | Sunny | Moderate | Mid-Flood | Middle | 3.40 | 9:45 | 8.41 | 8.30 | 30.48 | 25.17 | 2.07 | 5.4 |
| WSR36 | 20210429 | Sunny | Moderate | Mid-Flood | Bottom | 5.80 | 9:44 | 8.39 | 8.21 | 30.11 | 24.93 | 2.17 | 4.6 |
| WSR36 | 20210429 | Sunny | Moderate | Mid-Flood | Bottom | 5.80 Page 26 | 9:44 | 8.94 | 8.37 | 30.65 | 25.00 | 2.16 | 5.4 |

Contract No. 13/WSD/17

| 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) (Note 2) |
|----------|--------------------|---------|------------------|--------------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR37 | 20210401 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 10:12 | 9.68 | 8.17 | 31.89 | 27.42 | 2.62 | 2.5 |
| WSR37 | 20210401 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 10:12 | 8.26 | 8.23 | 31.23 | 27.37 | 2.48 | 2.5 |
| WSR37 | 20210401 | Sunny | Moderate | Mid-Flood | Middle | 3.80 | 10:11 | 9.09 | 8.24 | 31.90 | 27.25 | 2.61 | 2.5 |
| WSR37 | 20210401 | Sunny | Moderate | Mid-Flood | Middle | 3.80 | 10:11 | 8.97 | 8.14 | 31.61 | 27.12 | 2.32 | 2.5 |
| WSR37 | 20210401 | Sunny | Moderate | Mid-Flood | Bottom | 6.60 | 10:10 | 8.29 | 8.10 | 31.61 | 27.47 | 1.75 | 2.5 |
| WSR37 | 20210401 | Sunny | Moderate | Mid-Flood | Bottom | 6.60 | 10:10 | 9.52 | 8.02 | 31.19 | 27.45 | 1.56 | 2.5 |
| WSR37 | 20210403 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 10:03 | 8.34 | 8.14 | 29.09 | 26.90 | 3.40 | 2.8 |
| WSR37 | 20210403 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 10:03 | 8.35 | 8.21 | 29.64 | 27.07 | 2.88 | 2.5 |
| WSR37 | 20210403 | Sunny | Moderate | Mid-Flood | Middle | 4.40 | 10:02 | 8.36 | 8.04 | 29.47 | 27.08 | 2.65 | 2.5 |
| WSR37 | 20210403 | Sunny | Moderate | Mid-Flood | Middle | 4.40 | 10:02 | 8.18 | 8.02 | 29.59 | 26.82 | 2.95 | 2.5 |
| WSR37 | 20210403 | Sunny | Moderate | Mid-Flood | Bottom | 7.80 | 10:01 | 8.28 | 8.06 | 29.26 | 27.03 | 2.33 | 2.5 |
| WSR37 | 20210403 | Sunny | Moderate | Mid-Flood | Bottom | 7.80 | 10:01 | 8.33 | 8.17 | 29.61 | 26.78 | 2.55 | 2.5 |
| WSR37 | 20210406 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 9:52 | 8.26 | 8.39 | 29.94 | 22.59 | 3.18 | 4.4 |
| WSR37 | 20210406 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 9:52 | 8.63 | 8.20 | 30.01 | 22.67 | 2.69 | 4.3 |
| WSR37 | 20210406 | Cloudy | Moderate | Mid-Flood | Middle | 3.80 | 9:51 | 8.52 | 8.28 | 29.96 | 22.89 | 2.95 | 5.1 |
| WSR37 | 20210406 | Cloudy | Moderate | Mid-Flood | Middle | 3.80 | 9:51 | 8.53 | 8.25 | 29.94 | 22.76 | 2.67 | 4.3 |
| WSR37 | 20210406 | Cloudy | Moderate | Mid-Flood | Bottom | 6.60 | 9:50 | 8.26 | 8.35 | 29.83 | 22.74 | 2.43 | 6.6 |
| WSR37 | 20210406 | Cloudy | Moderate | Mid-Flood | Bottom | 6.60 | 9:50 | 8.34 | 8.20 | 30.15 | 22.77 | 2.53 | 4.8 |
| WSR37 | 20210408 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 15:41 | 9.13 | 8.42 | 30.32 | 24.18 | 2.51 | 2.5 |
| WSR37 | 20210408 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 15:41 | 8.47 | 8.34 | 29.90 | 24.21 | 2.60 | 2.5 |
| WSR37 | 20210408 | Cloudy | Moderate | Mid-Flood | Middle | 4.00 | 15:40 | 8.76 | 8.44 | 30.38 | 23.94 | 2.94 | 2.7 |
| WSR37 | 20210408 | Cloudy | Moderate | Mid-Flood | Middle | 4.00 | 15:40 | 8.75 | 8.47 | 30.77 | 24.00 | 2.65 | 2.5 |
| WSR37 | 20210408 | Cloudy | Moderate | Mid-Flood | Bottom | 7.00 | 15:39 | 9.07 | 8.50 | 30.40 | 24.05 | 2.49 | 2.5 |
| WSR37 | 20210408 | Cloudy | Moderate | Mid-Flood | Bottom | 7.00 | 15:39 | 9.04 | 8.45 | 30.24 | 24.19 | 2.13 | 2.5 |
| WSR37 | 20210410 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 17:14 | 8.66 | 8.26 | 31.79 | 23.43 | 3.36 | 3.0 |
| WSR37 | 20210410 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 17:14 | 9.20 | 8.18 | 31.77 | 23.25 | 3.07 | 3.1 |
| WSR37 | 20210410 | Cloudy | Moderate | Mid-Flood | Middle | 4.10 | 17:13 | 8.77 | 8.39 | 31.23 | 23.29 | 2.95 | 3.0 |
| vv 51\57 | 20210410 | ciouuy | wouldate | iviiu-i ioou | windule | Page 27 | | 0.77 | 0.39 | 51.25 | 25.25 | 2.95 | 5.0 |

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) (Note 2) |
|----------|--------------------|---------|------------------|-----------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR37 | 20210410 | Cloudy | Moderate | Mid-Flood | Middle | 4.10 | 17:13 | 8.34 | 8.45 | 31.25 | 23.46 | 3.14 | 3.8 |
| WSR37 | 20210410 | Cloudy | Moderate | Mid-Flood | Bottom | 7.20 | 17:12 | 9.18 | 8.45 | 31.54 | 23.23 | 2.16 | 3.4 |
| WSR37 | 20210410 | Cloudy | Moderate | Mid-Flood | Bottom | 7.20 | 17:12 | 8.73 | 8.34 | 31.27 | 23.42 | 2.47 | 2.5 |
| WSR37 | 20210413 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 18:04 | 8.54 | 8.23 | 31.66 | 27.92 | 2.45 | 5.0 |
| WSR37 | 20210413 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 18:04 | 9.18 | 8.39 | 30.97 | 27.73 | 2.09 | 4.2 |
| WSR37 | 20210413 | Sunny | Moderate | Mid-Flood | Middle | 4.00 | 18:03 | 8.84 | 8.33 | 30.53 | 27.89 | 2.54 | 6.2 |
| WSR37 | 20210413 | Sunny | Moderate | Mid-Flood | Middle | 4.00 | 18:03 | 9.01 | 8.25 | 31.80 | 27.76 | 2.34 | 5.2 |
| WSR37 | 20210413 | Sunny | Moderate | Mid-Flood | Bottom | 7.00 | 18:02 | 8.71 | 8.44 | 31.24 | 27.89 | 1.67 | 6.0 |
| WSR37 | 20210413 | Sunny | Moderate | Mid-Flood | Bottom | 7.00 | 18:02 | 8.40 | 8.18 | 31.83 | 27.80 | 1.97 | 6.5 |
| WSR37 | 20210415 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 10:12 | 9.71 | 8.32 | 32.07 | 22.83 | 2.19 | 3.0 |
| WSR37 | 20210415 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 10:12 | 9.37 | 8.30 | 31.60 | 22.90 | 2.20 | 2.5 |
| WSR37 | 20210415 | Cloudy | Moderate | Mid-Flood | Middle | 4.15 | 10:11 | 8.54 | 8.45 | 31.55 | 22.89 | 1.76 | 2.8 |
| WSR37 | 20210415 | Cloudy | Moderate | Mid-Flood | Middle | 4.15 | 10:11 | 9.49 | 8.45 | 31.60 | 22.88 | 1.49 | 2.5 |
| WSR37 | 20210415 | Cloudy | Moderate | Mid-Flood | Bottom | 7.30 | 10:10 | 8.69 | 8.52 | 32.19 | 22.93 | 2.13 | 2.5 |
| WSR37 | 20210415 | Cloudy | Moderate | Mid-Flood | Bottom | 7.30 | 10:10 | 8.21 | 8.42 | 31.57 | 22.86 | 1.78 | 2.5 |
| WSR37 | 20210417 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 10:07 | 8.54 | 8.61 | 32.06 | 22.63 | 2.93 | 3.1 |
| WSR37 | 20210417 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 10:07 | 8.53 | 8.74 | 32.05 | 22.81 | 2.72 | 2.5 |
| WSR37 | 20210417 | Cloudy | Moderate | Mid-Flood | Middle | 4.20 | 10:06 | 9.52 | 8.69 | 32.12 | 22.66 | 2.84 | 2.5 |
| WSR37 | 20210417 | Cloudy | Moderate | Mid-Flood | Middle | 4.20 | 10:06 | 8.63 | 8.56 | 31.92 | 22.91 | 2.87 | 3.3 |
| WSR37 | 20210417 | Cloudy | Moderate | Mid-Flood | Bottom | 7.40 | 10:05 | 8.08 | 8.75 | 31.90 | 22.61 | 2.58 | 2.5 |
| WSR37 | 20210417 | Cloudy | Moderate | Mid-Flood | Bottom | 7.40 | 10:05 | 9.66 | 8.58 | 32.12 | 22.83 | 2.63 | 2.5 |
| WSR37 | 20210420 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 10:14 | 7.48 | 8.26 | 26.80 | 23.87 | 3.53 | 6.2 |
| WSR37 | 20210420 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 10:14 | 8.07 | 8.34 | 27.82 | 23.94 | 2.95 | 4.2 |
| WSR37 | 20210420 | Cloudy | Moderate | Mid-Flood | Middle | 4.30 | 10:13 | 7.77 | 8.46 | 27.58 | 23.69 | 2.42 | 5.1 |
| WSR37 | 20210420 | Cloudy | Moderate | Mid-Flood | Middle | 4.30 | 10:13 | 7.81 | 8.41 | 27.01 | 23.67 | 2.30 | 5.0 |
| WSR37 | 20210420 | Cloudy | Moderate | Mid-Flood | Bottom | 7.60 | 10:12 | 7.60 | 8.28 | 27.85 | 23.70 | 3.08 | 3.7 |
| WSR37 | 20210420 | Cloudy | Moderate | Mid-Flood | Bottom | 7.60 | 10:12 | 7.94 | 8.33 | 27.64 | 23.84 | 2.64 | 4.1 |

| 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) (Note 2) |
|----------|--------------------|---------|------------------|-----------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR37 | 20210422 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 11:12 | 8.53 | 8.10 | 30.22 | 28.88 | 2.47 | 2.5 |
| WSR37 | 20210422 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 11:12 | 8.26 | 8.14 | 30.40 | 28.80 | 2.44 | 3.0 |
| WSR37 | 20210422 | Sunny | Moderate | Mid-Flood | Middle | 4.45 | 11:11 | 8.78 | 8.09 | 30.90 | 28.94 | 2.07 | 2.5 |
| WSR37 | 20210422 | Sunny | Moderate | Mid-Flood | Middle | 4.45 | 11:11 | 8.71 | 8.08 | 30.26 | 28.81 | 2.21 | 2.5 |
| WSR37 | 20210422 | Sunny | Moderate | Mid-Flood | Bottom | 7.90 | 11:10 | 9.20 | 8.11 | 31.30 | 28.95 | 2.13 | 2.5 |
| WSR37 | 20210422 | Sunny | Moderate | Mid-Flood | Bottom | 7.90 | 11:10 | 8.76 | 8.18 | 30.26 | 28.93 | 2.06 | 2.5 |
| WSR37 | 20210424 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:06 | 8.77 | 8.26 | 31.19 | 24.16 | 2.36 | 5.6 |
| WSR37 | 20210424 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 16:06 | 9.22 | 8.19 | 31.37 | 24.26 | 2.19 | 2.5 |
| WSR37 | 20210424 | Cloudy | Moderate | Mid-Flood | Middle | 4.45 | 16:05 | 9.53 | 8.17 | 31.15 | 24.08 | 1.93 | 2.9 |
| WSR37 | 20210424 | Cloudy | Moderate | Mid-Flood | Middle | 4.45 | 16:05 | 9.54 | 8.15 | 31.20 | 24.19 | 1.66 | 2.7 |
| WSR37 | 20210424 | Cloudy | Moderate | Mid-Flood | Bottom | 7.90 | 16:04 | 9.26 | 8.31 | 31.43 | 24.29 | 1.65 | 2.5 |
| WSR37 | 20210424 | Cloudy | Moderate | Mid-Flood | Bottom | 7.90 | 16:04 | 8.93 | 8.14 | 31.39 | 24.17 | 1.69 | 4.2 |
| WSR37 | 20210427 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 17:38 | 8.45 | 8.45 | 31.62 | 23.18 | 2.45 | 2.5 |
| WSR37 | 20210427 | Cloudy | Moderate | Mid-Flood | Surface | 1.00 | 17:38 | 9.74 | 8.45 | 31.25 | 23.03 | 2.47 | 4.2 |
| WSR37 | 20210427 | Cloudy | Moderate | Mid-Flood | Middle | 4.05 | 17:37 | 8.40 | 8.44 | 31.07 | 23.07 | 1.90 | 4.2 |
| WSR37 | 20210427 | Cloudy | Moderate | Mid-Flood | Middle | 4.05 | 17:37 | 9.47 | 8.34 | 30.90 | 23.26 | 2.04 | 6.1 |
| WSR37 | 20210427 | Cloudy | Moderate | Mid-Flood | Bottom | 7.10 | 17:36 | 9.29 | 8.49 | 31.41 | 23.04 | 2.09 | 3.3 |
| WSR37 | 20210427 | Cloudy | Moderate | Mid-Flood | Bottom | 7.10 | 17:36 | 9.03 | 8.46 | 30.79 | 23.19 | 1.86 | 3.6 |
| WSR37 | 20210429 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 10:03 | 8.50 | 8.40 | 30.16 | 25.31 | 2.42 | 4.4 |
| WSR37 | 20210429 | Sunny | Moderate | Mid-Flood | Surface | 1.00 | 10:03 | 8.90 | 8.21 | 30.11 | 25.21 | 2.86 | 4.9 |
| WSR37 | 20210429 | Sunny | Moderate | Mid-Flood | Middle | 4.10 | 10:02 | 9.06 | 8.41 | 30.15 | 25.29 | 2.34 | 4.9 |
| WSR37 | 20210429 | Sunny | Moderate | Mid-Flood | Middle | 4.10 | 10:02 | 8.83 | 8.36 | 30.34 | 25.23 | 2.54 | 5.4 |
| WSR37 | 20210429 | Sunny | Moderate | Mid-Flood | Bottom | 7.20 | 10:01 | 8.51 | 8.39 | 30.86 | 25.33 | 2.38 | 5.2 |
| WSR37 | 20210429 | Sunny | Moderate | Mid-Flood | Bottom | 7.20 | 10:01 | 8.91 | 8.43 | 30.35 | 25.26 | 2.03 | 4.6 |

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

Note 2: Measurement data of Suspending Solids would be rounding to 2.5mg/L if the value was less than 2.5mg/L to facilitate data analysing

| 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) (Note 2) |
|----------|--------------------|---------|------------------|---------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| CE | 20210401 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 13:13 | 8.10 | 8.37 | 31.18 | 27.83 | 3.60 | 2.5 |
| CE | 20210401 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 13:13 | 8.83 | 8.36 | 31.00 | 27.63 | 3.88 | 2.5 |
| CE | 20210401 | Sunny | Moderate | Mid-Ebb | Middle | 11.55 | 13:12 | 7.93 | 8.16 | 31.04 | 27.92 | 3.90 | 2.5 |
| CE | 20210401 | Sunny | Moderate | Mid-Ebb | Middle | 11.55 | 13:12 | 8.76 | 8.35 | 31.73 | 27.88 | 3.36 | 2.5 |
| CE | 20210401 | Sunny | Moderate | Mid-Ebb | Bottom | 22.10 | 13:11 | 8.00 | 8.16 | 31.50 | 27.97 | 3.25 | 2.5 |
| CE | 20210401 | Sunny | Moderate | Mid-Ebb | Bottom | 22.10 | 13:11 | 9.22 | 8.26 | 30.90 | 27.69 | 2.96 | 2.5 |
| CE | 20210403 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 14:58 | 8.43 | 7.95 | 28.89 | 27.33 | 3.95 | 2.9 |
| CE | 20210403 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 14:58 | 8.29 | 8.24 | 28.77 | 27.18 | 3.75 | 2.5 |
| CE | 20210403 | Sunny | Moderate | Mid-Ebb | Middle | 12.05 | 14:57 | 8.88 | 8.11 | 29.35 | 27.16 | 3.95 | 2.5 |
| CE | 20210403 | Sunny | Moderate | Mid-Ebb | Middle | 12.05 | 14:57 | 8.07 | 8.23 | 29.17 | 27.18 | 3.46 | 2.9 |
| CE | 20210403 | Sunny | Moderate | Mid-Ebb | Bottom | 23.10 | 14:56 | 8.49 | 8.19 | 29.04 | 27.26 | 3.61 | 2.5 |
| CE | 20210403 | Sunny | Moderate | Mid-Ebb | Bottom | 23.10 | 14:56 | 8.21 | 8.07 | 29.42 | 27.11 | 3.97 | 2.5 |
| CE | 20210406 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 15:32 | 8.38 | 8.21 | 29.79 | 23.41 | 3.55 | 5.2 |
| CE | 20210406 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 15:32 | 8.26 | 8.36 | 29.59 | 23.22 | 3.63 | 5.7 |
| CE | 20210406 | Cloudy | Moderate | Mid-Ebb | Middle | 11.80 | 15:31 | 8.74 | 8.30 | 29.87 | 23.24 | 3.46 | 3.1 |
| CE | 20210406 | Cloudy | Moderate | Mid-Ebb | Middle | 11.80 | 15:31 | 8.64 | 8.28 | 29.58 | 23.29 | 3.91 | 2.5 |
| CE | 20210406 | Cloudy | Moderate | Mid-Ebb | Bottom | 22.60 | 15:30 | 8.55 | 8.30 | 29.72 | 23.27 | 3.12 | 3.1 |
| CE | 20210406 | Cloudy | Moderate | Mid-Ebb | Bottom | 22.60 | 15:30 | 8.40 | 8.21 | 29.66 | 23.34 | 3.22 | 4.3 |
| CE | 20210408 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 8:47 | 9.29 | 8.26 | 30.02 | 23.69 | 3.63 | 2.5 |
| CE | 20210408 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 8:47 | 8.60 | 8.43 | 30.49 | 23.64 | 3.28 | 2.5 |
| CE | 20210408 | Cloudy | Moderate | Mid-Ebb | Middle | 11.65 | 8:46 | 9.14 | 8.26 | 30.22 | 23.32 | 3.39 | 2.5 |
| CE | 20210408 | Cloudy | Moderate | Mid-Ebb | Middle | 11.65 | 8:46 | 8.86 | 8.33 | 30.38 | 23.44 | 3.46 | 2.5 |
| CE | 20210408 | Cloudy | Moderate | Mid-Ebb | Bottom | 22.30 | 8:45 | 9.18 | 8.25 | 30.11 | 23.68 | 3.08 | 2.5 |
| CE | 20210408 | Cloudy | Moderate | Mid-Ebb | Bottom | 22.30 | 8:45 | 9.38 | 8.22 | 30.50 | 23.53 | 3.37 | 2.5 |
| CE | 20210410 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 9:46 | 8.60 | 8.17 | 31.33 | 23.81 | 3.74 | 2.5 |
| CE | 20210410 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 9:46 | 9.18 | 8.41 | 31.80 | 23.47 | 3.84 | 2.5 |
| CE | 20210410 | Cloudy | Moderate | Mid-Ebb | Middle | 11.95 | 9:45 | 9.10 | 8.40 | 31.39 | 23.71 | 3.60 | 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) (Note 2) |
|----------|--------------------|---------|------------------|---------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| CE | 20210410 | Cloudy | Moderate | Mid-Ebb | Middle | 11.95 | 9:45 | 9.13 | 8.21 | 31.19 | 23.56 | 3.79 | 2.7 |
| CE | 20210410 | Cloudy | Moderate | Mid-Ebb | Bottom | 22.90 | 9:44 | 8.68 | 8.18 | 30.98 | 23.53 | 3.42 | 3.2 |
| CE | 20210410 | Cloudy | Moderate | Mid-Ebb | Bottom | 22.90 | 9:44 | 9.15 | 8.15 | 31.93 | 23.73 | 3.86 | 2.5 |
| CE | 20210413 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 11:32 | 9.20 | 8.50 | 30.42 | 28.39 | 3.25 | 2.5 |
| CE | 20210413 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 11:32 | 8.69 | 8.26 | 30.35 | 28.32 | 3.49 | 2.5 |
| CE | 20210413 | Sunny | Moderate | Mid-Ebb | Middle | 10.05 | 11:31 | 9.71 | 8.34 | 31.42 | 28.71 | 3.03 | 2.5 |
| CE | 20210413 | Sunny | Moderate | Mid-Ebb | Middle | 10.05 | 11:31 | 9.98 | 8.36 | 31.51 | 28.46 | 3.00 | 2.5 |
| CE | 20210413 | Sunny | Moderate | Mid-Ebb | Bottom | 19.10 | 11:30 | 9.13 | 8.31 | 30.63 | 28.41 | 3.16 | 2.5 |
| CE | 20210413 | Sunny | Moderate | Mid-Ebb | Bottom | 19.10 | 11:30 | 8.87 | 8.53 | 30.92 | 28.51 | 3.35 | 2.5 |
| CE | 20210415 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 12:17 | 8.03 | 8.47 | 32.05 | 23.08 | 3.73 | 2.5 |
| CE | 20210415 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 12:17 | 8.81 | 8.36 | 31.82 | 23.17 | 3.55 | 2.5 |
| CE | 20210415 | Cloudy | Moderate | Mid-Ebb | Middle | 10.85 | 12:16 | 9.50 | 8.45 | 31.43 | 23.24 | 3.58 | 2.9 |
| CE | 20210415 | Cloudy | Moderate | Mid-Ebb | Middle | 10.85 | 12:16 | 8.87 | 8.33 | 31.55 | 23.25 | 3.25 | 2.5 |
| CE | 20210415 | Cloudy | Moderate | Mid-Ebb | Bottom | 20.70 | 12:15 | 8.48 | 8.38 | 31.62 | 23.26 | 3.00 | 3 |
| CE | 20210415 | Cloudy | Moderate | Mid-Ebb | Bottom | 20.70 | 12:15 | 8.95 | 8.43 | 32.32 | 23.05 | 3.29 | 3.3 |
| CE | 20210417 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 12:47 | 8.56 | 8.55 | 31.37 | 23.14 | 3.98 | 2.5 |
| CE | 20210417 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 12:47 | 9.71 | 8.58 | 32.31 | 23.27 | 3.38 | 2.5 |
| CE | 20210417 | Cloudy | Moderate | Mid-Ebb | Middle | 11.15 | 12:46 | 9.17 | 8.49 | 31.28 | 23.09 | 3.15 | 4.1 |
| CE | 20210417 | Cloudy | Moderate | Mid-Ebb | Middle | 11.15 | 12:46 | 9.61 | 8.66 | 31.37 | 23.03 | 3.73 | 3.1 |
| CE | 20210417 | Cloudy | Moderate | Mid-Ebb | Bottom | 21.30 | 12:45 | 9.09 | 8.64 | 31.30 | 23.16 | 2.73 | 2.7 |
| CE | 20210417 | Cloudy | Moderate | Mid-Ebb | Bottom | 21.30 | 12:45 | 9.61 | 8.51 | 31.75 | 23.03 | 3.15 | 2.5 |
| CE | 20210420 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 15:32 | 8.19 | 8.44 | 27.76 | 23.88 | 4.15 | 2.5 |
| CE | 20210420 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 15:32 | 7.45 | 8.41 | 26.98 | 24.05 | 3.77 | 3.6 |
| CE | 20210420 | Cloudy | Moderate | Mid-Ebb | Middle | 10.05 | 15:31 | 7.68 | 8.31 | 27.27 | 23.99 | 3.97 | 4.4 |
| CE | 20210420 | Cloudy | Moderate | Mid-Ebb | Middle | 10.05 | 15:31 | 7.92 | 8.48 | 26.78 | 23.89 | 3.74 | 3.2 |
| CE | 20210420 | Cloudy | Moderate | Mid-Ebb | Bottom | 19.10 | 15:30 | 7.48 | 8.29 | 27.29 | 23.90 | 4.64 | 2.5 |
| CE | 20210420 | Cloudy | Moderate | Mid-Ebb | Bottom | 19.10 | 15:30 | 7.74 | 8.40 | 27.12 | 23.97 | 4.57 | 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) (Note 2) |
|----------|--------------------|---------|------------------|---------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| CE | 20210422 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 16:02 | 8.01 | 8.13 | 30.66 | 28.94 | 3.59 | 2.8 |
| CE | 20210422 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 16:02 | 8.07 | 8.18 | 30.43 | 28.91 | 3.13 | 2.6 |
| CE | 20210422 | Sunny | Moderate | Mid-Ebb | Middle | 12.00 | 16:01 | 9.00 | 8.24 | 30.65 | 28.94 | 3.61 | 3.3 |
| CE | 20210422 | Sunny | Moderate | Mid-Ebb | Middle | 12.00 | 16:01 | 8.99 | 8.27 | 31.16 | 28.83 | 3.27 | 2.5 |
| CE | 20210422 | Sunny | Moderate | Mid-Ebb | Bottom | 23.00 | 16:00 | 8.80 | 8.28 | 30.46 | 28.97 | 2.85 | 2.5 |
| CE | 20210422 | Sunny | Moderate | Mid-Ebb | Bottom | 23.00 | 16:00 | 8.29 | 8.21 | 30.83 | 29.04 | 3.08 | 2.5 |
| CE | 20210424 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 8:34 | 8.84 | 8.17 | 31.11 | 23.67 | 3.12 | 3.0 |
| CE | 20210424 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 8:34 | 9.11 | 8.27 | 31.22 | 23.70 | 3.06 | 2.5 |
| CE | 20210424 | Cloudy | Moderate | Mid-Ebb | Middle | 11.65 | 8:33 | 8.89 | 8.27 | 31.38 | 23.71 | 3.08 | 2.5 |
| CE | 20210424 | Cloudy | Moderate | Mid-Ebb | Middle | 11.65 | 8:33 | 8.70 | 8.33 | 31.02 | 23.56 | 3.12 | 5.1 |
| CE | 20210424 | Cloudy | Moderate | Mid-Ebb | Bottom | 22.30 | 8:32 | 8.96 | 8.10 | 31.11 | 23.67 | 3.11 | 2.7 |
| CE | 20210424 | Cloudy | Moderate | Mid-Ebb | Bottom | 22.30 | 8:32 | 8.96 | 8.36 | 30.74 | 23.62 | 3.01 | 2.9 |
| CE | 20210427 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 10:27 | 9.39 | 8.41 | 31.02 | 23.31 | 3.66 | 2.9 |
| CE | 20210427 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 10:27 | 9.27 | 8.30 | 30.84 | 23.29 | 3.72 | 2.5 |
| CE | 20210427 | Cloudy | Moderate | Mid-Ebb | Middle | 11.80 | 10:26 | 8.59 | 8.25 | 31.20 | 23.35 | 3.18 | 3.1 |
| CE | 20210427 | Cloudy | Moderate | Mid-Ebb | Middle | 11.80 | 10:26 | 9.77 | 8.23 | 30.87 | 23.34 | 3.49 | 2.9 |
| CE | 20210427 | Cloudy | Moderate | Mid-Ebb | Bottom | 22.60 | 10:25 | 9.12 | 8.51 | 30.94 | 23.34 | 3.27 | 2.5 |
| CE | 20210427 | Cloudy | Moderate | Mid-Ebb | Bottom | 22.60 | 10:25 | 10.13 | 8.44 | 30.98 | 23.21 | 3.29 | 2.5 |
| CE | 20210429 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 11:53 | 8.88 | 8.27 | 30.08 | 26.14 | 3.14 | 4.3 |
| CE | 20210429 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 11:53 | 8.77 | 8.21 | 30.72 | 26.31 | 3.66 | 4.7 |
| CE | 20210429 | Sunny | Moderate | Mid-Ebb | Middle | 10.80 | 11:52 | 9.07 | 8.24 | 30.42 | 26.33 | 3.03 | 4.9 |
| CE | 20210429 | Sunny | Moderate | Mid-Ebb | Middle | 10.80 | 11:52 | 8.65 | 8.23 | 30.68 | 26.11 | 2.81 | 3.2 |
| CE | 20210429 | Sunny | Moderate | Mid-Ebb | Bottom | 20.60 | 11:51 | 8.76 | 8.33 | 30.39 | 26.16 | 3.15 | 5.1 |
| CE | 20210429 | Sunny | Moderate | Mid-Ebb | Bottom | 20.60 | 11:51 | 8.71 | 8.15 | 30.09 | 26.17 | 2.94 | 5.3 |
| CF | 20210401 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 16:12 | 8.04 | 8.38 | 31.96 | 28.03 | 3.46 | 2.5 |
| CF | 20210401 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 16:12 | 9.54 | 8.35 | 31.73 | 27.78 | 3.37 | 2.5 |
| CF | 20210401 | Sunny | Moderate | Mid-Ebb | Middle | 10.05 | 16:11 | 8.02 | 8.28 | 31.33 | 27.92 | 3.66 | 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) (Note 2) |
|----------|--------------------|---------|------------------|---------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| CF | 20210401 | Sunny | Moderate | Mid-Ebb | Middle | 10.05 | 16:11 | 9.24 | 8.11 | 31.32 | 28.00 | 4.15 | 2.5 |
| CF | 20210401 | Sunny | Moderate | Mid-Ebb | Bottom | 19.10 | 16:10 | 8.86 | 8.31 | 31.26 | 27.74 | 3.24 | 2.5 |
| CF | 20210401 | Sunny | Moderate | Mid-Ebb | Bottom | 19.10 | 16:10 | 8.99 | 8.09 | 31.33 | 27.90 | 3.06 | 2.5 |
| CF | 20210403 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 17:40 | 8.68 | 8.19 | 29.26 | 27.26 | 3.24 | 3.3 |
| CF | 20210403 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 17:40 | 8.80 | 8.18 | 29.04 | 27.39 | 2.98 | 2.5 |
| CF | 20210403 | Sunny | Moderate | Mid-Ebb | Middle | 9.95 | 17:39 | 8.22 | 8.31 | 29.37 | 27.24 | 2.92 | 2.5 |
| CF | 20210403 | Sunny | Moderate | Mid-Ebb | Middle | 9.95 | 17:39 | 8.86 | 8.10 | 28.82 | 27.28 | 2.57 | 2.5 |
| CF | 20210403 | Sunny | Moderate | Mid-Ebb | Bottom | 18.90 | 17:38 | 8.09 | 8.28 | 29.12 | 27.28 | 3.59 | 2.5 |
| CF | 20210403 | Sunny | Moderate | Mid-Ebb | Bottom | 18.90 | 17:38 | 8.57 | 7.97 | 29.10 | 27.32 | 3.06 | 2.5 |
| CF | 20210406 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 17:59 | 8.49 | 8.36 | 29.88 | 23.21 | 3.05 | 4.8 |
| CF | 20210406 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 17:59 | 8.34 | 8.27 | 29.85 | 23.06 | 3.52 | 2.7 |
| CF | 20210406 | Cloudy | Moderate | Mid-Ebb | Middle | 10.50 | 17:58 | 8.33 | 8.21 | 29.66 | 23.21 | 3.94 | 3.1 |
| CF | 20210406 | Cloudy | Moderate | Mid-Ebb | Middle | 10.50 | 17:58 | 8.62 | 8.27 | 29.78 | 23.16 | 3.41 | 2.5 |
| CF | 20210406 | Cloudy | Moderate | Mid-Ebb | Bottom | 20.00 | 17:57 | 8.44 | 8.27 | 29.71 | 23.20 | 3.55 | 3.3 |
| CF | 20210406 | Cloudy | Moderate | Mid-Ebb | Bottom | 20.00 | 17:57 | 8.51 | 8.33 | 29.71 | 23.22 | 3.74 | 3.3 |
| CF | 20210408 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 11:25 | 8.84 | 8.33 | 30.08 | 23.78 | 3.42 | 2.5 |
| CF | 20210408 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 11:25 | 9.31 | 8.27 | 30.32 | 23.63 | 4.10 | 2.5 |
| CF | 20210408 | Cloudy | Moderate | Mid-Ebb | Middle | 10.55 | 11:24 | 8.61 | 8.40 | 30.01 | 23.64 | 3.99 | 2.9 |
| CF | 20210408 | Cloudy | Moderate | Mid-Ebb | Middle | 10.55 | 11:24 | 8.62 | 8.29 | 30.09 | 23.77 | 3.65 | 2.5 |
| CF | 20210408 | Cloudy | Moderate | Mid-Ebb | Bottom | 20.10 | 11:23 | 9.15 | 8.25 | 30.00 | 23.90 | 3.60 | 2.5 |
| CF | 20210408 | Cloudy | Moderate | Mid-Ebb | Bottom | 20.10 | 11:23 | 9.00 | 8.29 | 29.96 | 23.61 | 3.35 | 2.5 |
| CF | 20210410 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 12:06 | 8.95 | 8.32 | 31.62 | 23.45 | 3.87 | 2.5 |
| CF | 20210410 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 12:06 | 8.77 | 8.44 | 31.67 | 23.71 | 3.79 | 2.5 |
| CF | 20210410 | Cloudy | Moderate | Mid-Ebb | Middle | 9.85 | 12:05 | 8.77 | 8.33 | 30.87 | 23.53 | 3.16 | 2.6 |
| CF | 20210410 | Cloudy | Moderate | Mid-Ebb | Middle | 9.85 | 12:05 | 8.67 | 8.12 | 31.11 | 23.45 | 3.02 | 2.7 |
| CF | 20210410 | Cloudy | Moderate | Mid-Ebb | Bottom | 18.70 | 12:04 | 8.85 | 8.33 | 31.98 | 23.55 | 3.71 | 2.5 |
| CF | 20210410 | Cloudy | Moderate | Mid-Ebb | Bottom | 18.70 | 12:04 | 8.98 | 8.20 | 31.16 | 23.72 | 3.27 | 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) (Note 2) |
|----------|--------------------|---------|------------------|---------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| CF | 20210413 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 14:18 | 9.25 | 8.39 | 31.30 | 28.49 | 3.02 | 2.5 |
| CF | 20210413 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 14:18 | 9.44 | 8.40 | 30.49 | 28.88 | 3.28 | 3.2 |
| CF | 20210413 | Sunny | Moderate | Mid-Ebb | Middle | 10.80 | 14:17 | 9.47 | 8.47 | 31.34 | 28.82 | 3.24 | 3.0 |
| CF | 20210413 | Sunny | Moderate | Mid-Ebb | Middle | 10.80 | 14:17 | 8.84 | 8.43 | 30.57 | 28.84 | 3.36 | 3.0 |
| CF | 20210413 | Sunny | Moderate | Mid-Ebb | Bottom | 20.60 | 14:16 | 9.52 | 8.32 | 31.39 | 28.70 | 2.82 | 2.8 |
| CF | 20210413 | Sunny | Moderate | Mid-Ebb | Bottom | 20.60 | 14:16 | 9.35 | 8.50 | 30.50 | 28.82 | 3.08 | 2.8 |
| CF | 20210415 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 15:16 | 9.55 | 8.49 | 31.83 | 23.28 | 1.73 | 4.1 |
| CF | 20210415 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 15:16 | 8.54 | 8.22 | 32.10 | 23.09 | 2.00 | 4.6 |
| CF | 20210415 | Cloudy | Moderate | Mid-Ebb | Middle | 10.70 | 15:15 | 8.15 | 8.41 | 31.95 | 23.20 | 1.79 | 7.5 |
| CF | 20210415 | Cloudy | Moderate | Mid-Ebb | Middle | 10.70 | 15:15 | 9.58 | 8.31 | 31.32 | 23.19 | 1.64 | 3 |
| CF | 20210415 | Cloudy | Moderate | Mid-Ebb | Bottom | 20.40 | 15:14 | 8.66 | 8.32 | 31.09 | 23.27 | 1.78 | 3 |
| CF | 20210415 | Cloudy | Moderate | Mid-Ebb | Bottom | 20.40 | 15:14 | 8.47 | 8.40 | 32.30 | 23.24 | 1.66 | 3 |
| CF | 20210417 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 15:38 | 8.53 | 8.64 | 32.06 | 23.11 | 3.35 | 2.5 |
| CF | 20210417 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 15:38 | 9.07 | 8.52 | 31.21 | 23.22 | 3.79 | 2.5 |
| CF | 20210417 | Cloudy | Moderate | Mid-Ebb | Middle | 10.20 | 15:37 | 8.95 | 8.59 | 32.21 | 23.04 | 3.60 | 2.5 |
| CF | 20210417 | Cloudy | Moderate | Mid-Ebb | Middle | 10.20 | 15:37 | 8.72 | 8.58 | 31.97 | 23.07 | 3.27 | 2.5 |
| CF | 20210417 | Cloudy | Moderate | Mid-Ebb | Bottom | 19.40 | 15:36 | 8.40 | 8.68 | 31.28 | 23.02 | 3.44 | 2.5 |
| CF | 20210417 | Cloudy | Moderate | Mid-Ebb | Bottom | 19.40 | 15:36 | 8.07 | 8.72 | 31.92 | 23.04 | 3.08 | 3.8 |
| CF | 20210420 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 18:15 | 7.99 | 8.46 | 27.98 | 23.91 | 4.33 | 3.4 |
| CF | 20210420 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 18:15 | 8.10 | 8.48 | 27.91 | 24.06 | 4.30 | 4.4 |
| CF | 20210420 | Cloudy | Moderate | Mid-Ebb | Middle | 10.05 | 18:14 | 7.65 | 8.33 | 27.17 | 24.17 | 4.31 | 3.6 |
| CF | 20210420 | Cloudy | Moderate | Mid-Ebb | Middle | 10.05 | 18:14 | 7.98 | 8.22 | 27.80 | 24.07 | 3.85 | 4.1 |
| CF | 20210420 | Cloudy | Moderate | Mid-Ebb | Bottom | 19.10 | 18:13 | 7.58 | 8.34 | 27.67 | 23.97 | 4.61 | 2.9 |
| CF | 20210420 | Cloudy | Moderate | Mid-Ebb | Bottom | 19.10 | 18:13 | 8.15 | 8.37 | 27.71 | 24.10 | 4.50 | 3.6 |
| CF | 20210422 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 19:01 | 8.19 | 8.13 | 31.04 | 28.81 | 2.87 | 3.5 |
| CF | 20210422 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 19:01 | 8.69 | 8.24 | 30.74 | 28.62 | 2.45 | 4.5 |
| CF | 20210422 | Sunny | Moderate | Middle | Middle | 9.85 | 19:00 | 8.27 | 8.15 | 31.07 | 28.65 | 2.62 | 3.9 |
| | | | | | | | | | | | | | |

| 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) (Note 2) |
|----------|--------------------|---------|------------------|---------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| CF | 20210422 | Sunny | Moderate | Mid-Ebb | Middle | 9.85 | 19:00 | 8.76 | 8.11 | 30.98 | 28.78 | 2.66 | 3.3 |
| CF | 20210422 | Sunny | Moderate | Mid-Ebb | Bottom | 18.70 | 18:59 | 8.52 | 8.18 | 31.07 | 28.77 | 3.55 | 2.8 |
| CF | 20210422 | Sunny | Moderate | Mid-Ebb | Bottom | 18.70 | 18:59 | 8.59 | 8.15 | 31.12 | 28.77 | 2.96 | 2.5 |
| CF | 20210424 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 11:33 | 9.22 | 8.34 | 31.10 | 23.99 | 2.81 | 2.6 |
| CF | 20210424 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 11:33 | 9.36 | 8.25 | 31.05 | 23.96 | 2.90 | 2.5 |
| CF | 20210424 | Cloudy | Moderate | Mid-Ebb | Middle | 9.95 | 11:32 | 9.15 | 8.19 | 31.27 | 24.17 | 2.90 | 2.5 |
| CF | 20210424 | Cloudy | Moderate | Mid-Ebb | Middle | 9.95 | 11:32 | 8.76 | 8.10 | 30.99 | 24.17 | 3.00 | 2.5 |
| CF | 20210424 | Cloudy | Moderate | Mid-Ebb | Bottom | 18.90 | 11:31 | 9.06 | 8.36 | 30.98 | 24.01 | 3.79 | 2.5 |
| CF | 20210424 | Cloudy | Moderate | Mid-Ebb | Bottom | 18.90 | 11:31 | 9.02 | 8.29 | 30.78 | 24.14 | 3.34 | 2.5 |
| CF | 20210427 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 13:26 | 8.95 | 8.22 | 30.93 | 23.69 | 3.65 | 3.0 |
| CF | 20210427 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 13:26 | 9.16 | 8.36 | 31.66 | 23.75 | 3.22 | 2.6 |
| CF | 20210427 | Cloudy | Moderate | Mid-Ebb | Middle | 10.05 | 13:25 | 10.05 | 8.24 | 31.36 | 23.80 | 3.30 | 2.9 |
| CF | 20210427 | Cloudy | Moderate | Mid-Ebb | Middle | 10.05 | 13:25 | 9.01 | 8.36 | 31.51 | 23.89 | 3.17 | 3.4 |
| CF | 20210427 | Cloudy | Moderate | Mid-Ebb | Bottom | 19.10 | 13:24 | 9.47 | 8.39 | 30.71 | 23.66 | 2.80 | 2.5 |
| CF | 20210427 | Cloudy | Moderate | Mid-Ebb | Bottom | 19.10 | 13:24 | 10.05 | 8.35 | 31.51 | 23.86 | 2.79 | 3.4 |
| CF | 20210429 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 14:39 | 9.11 | 8.20 | 30.40 | 26.80 | 3.18 | 4.0 |
| CF | 20210429 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 14:39 | 8.77 | 8.20 | 30.34 | 26.62 | 3.00 | 4.9 |
| CF | 20210429 | Sunny | Moderate | Mid-Ebb | Middle | 9.75 | 14:38 | 8.89 | 8.25 | 30.73 | 26.69 | 2.85 | 4.9 |
| CF | 20210429 | Sunny | Moderate | Mid-Ebb | Middle | 9.75 | 14:38 | 8.58 | 8.32 | 30.54 | 26.75 | 3.07 | 4.6 |
| CF | 20210429 | Sunny | Moderate | Mid-Ebb | Bottom | 18.50 | 14:37 | 8.62 | 8.20 | 30.30 | 26.75 | 2.81 | 4.5 |
| CF | 20210429 | Sunny | Moderate | Mid-Ebb | Bottom | 18.50 | 14:37 | 8.93 | 8.32 | 30.54 | 26.77 | 2.96 | 4.5 |
| WSR01 | 20210401 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 15:46 | 8.86 | 8.13 | 30.92 | 27.71 | 2.51 | 2.5 |
| WSR01 | 20210401 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 15:46 | 8.21 | 8.22 | 31.13 | 27.72 | 2.36 | 2.5 |
| WSR01 | 20210401 | Sunny | Moderate | Mid-Ebb | Middle | 4.55 | 15:45 | 8.51 | 8.10 | 31.88 | 27.66 | 2.14 | 2.5 |
| WSR01 | 20210401 | Sunny | Moderate | Mid-Ebb | Middle | 4.55 | 15:45 | 8.92 | 8.28 | 30.79 | 27.92 | 2.11 | 2.5 |
| WSR01 | 20210401 | Sunny | Moderate | Mid-Ebb | Bottom | 8.10 | 15:44 | 8.57 | 8.30 | 31.85 | 27.79 | 2.07 | 2.5 |
| WSR01 | 20210401 | Sunny | Moderate | Mid-Ebb | Bottom | 8.10 | 15:44 | 8.55 | 8.13 | 31.94 | 27.86 | 2.11 | 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) (Note 2) |
|----------|--------------------|---------|------------------|---------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR01 | 20210403 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 17:17 | 8.18 | 8.02 | 29.24 | 27.30 | 3.49 | 2.5 |
| WSR01 | 20210403 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 17:17 | 8.42 | 8.09 | 29.36 | 27.45 | 3.24 | 2.5 |
| WSR01 | 20210403 | Sunny | Moderate | Mid-Ebb | Middle | 4.20 | 17:16 | 8.45 | 8.24 | 29.35 | 27.46 | 3.02 | 2.5 |
| WSR01 | 20210403 | Sunny | Moderate | Mid-Ebb | Middle | 4.20 | 17:16 | 8.18 | 8.07 | 29.43 | 27.31 | 2.76 | 2.5 |
| WSR01 | 20210403 | Sunny | Moderate | Mid-Ebb | Bottom | 7.40 | 17:15 | 8.93 | 8.04 | 29.42 | 27.34 | 2.56 | 4.1 |
| WSR01 | 20210403 | Sunny | Moderate | Mid-Ebb | Bottom | 7.40 | 17:15 | 8.66 | 8.10 | 29.14 | 27.33 | 2.76 | 4.2 |
| WSR01 | 20210406 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 17:36 | 8.32 | 8.35 | 29.79 | 23.11 | 2.63 | 4.0 |
| WSR01 | 20210406 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 17:36 | 8.44 | 8.25 | 29.91 | 23.21 | 3.02 | 3.8 |
| WSR01 | 20210406 | Cloudy | Moderate | Mid-Ebb | Middle | 4.50 | 17:35 | 8.56 | 8.19 | 29.81 | 23.13 | 2.21 | 4.0 |
| WSR01 | 20210406 | Cloudy | Moderate | Mid-Ebb | Middle | 4.50 | 17:35 | 8.72 | 8.23 | 29.64 | 23.28 | 2.44 | 3.4 |
| WSR01 | 20210406 | Cloudy | Moderate | Mid-Ebb | Bottom | 8.00 | 17:34 | 8.61 | 8.21 | 29.71 | 23.10 | 2.69 | 2.5 |
| WSR01 | 20210406 | Cloudy | Moderate | Mid-Ebb | Bottom | 8.00 | 17:34 | 8.78 | 8.27 | 29.84 | 23.11 | 2.40 | 3.2 |
| WSR01 | 20210408 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 11:02 | 9.07 | 8.33 | 30.62 | 23.88 | 2.43 | 2.5 |
| WSR01 | 20210408 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 11:02 | 9.17 | 8.24 | 30.35 | 23.86 | 2.11 | 2.5 |
| WSR01 | 20210408 | Cloudy | Moderate | Mid-Ebb | Middle | 4.50 | 11:01 | 8.61 | 8.34 | 30.39 | 23.62 | 2.67 | 2.5 |
| WSR01 | 20210408 | Cloudy | Moderate | Mid-Ebb | Middle | 4.50 | 11:01 | 8.91 | 8.56 | 30.51 | 23.83 | 2.85 | 3.2 |
| WSR01 | 20210408 | Cloudy | Moderate | Mid-Ebb | Bottom | 8.00 | 11:00 | 9.14 | 8.47 | 30.42 | 23.72 | 2.15 | 3.5 |
| WSR01 | 20210408 | Cloudy | Moderate | Mid-Ebb | Bottom | 8.00 | 11:00 | 8.91 | 8.54 | 30.19 | 23.63 | 2.07 | 2.5 |
| WSR01 | 20210410 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 11:45 | 9.11 | 8.31 | 31.66 | 23.74 | 3.02 | 2.5 |
| WSR01 | 20210410 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 11:45 | 8.87 | 8.17 | 30.74 | 23.66 | 2.97 | 2.5 |
| WSR01 | 20210410 | Cloudy | Moderate | Mid-Ebb | Middle | 4.35 | 11:44 | 8.74 | 8.15 | 31.33 | 23.86 | 2.80 | 2.5 |
| WSR01 | 20210410 | Cloudy | Moderate | Mid-Ebb | Middle | 4.35 | 11:44 | 9.07 | 8.31 | 31.08 | 23.68 | 2.71 | 2.5 |
| WSR01 | 20210410 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.70 | 11:43 | 8.77 | 8.34 | 31.55 | 23.73 | 2.80 | 2.5 |
| WSR01 | 20210410 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.70 | 11:43 | 8.78 | 8.18 | 31.63 | 23.88 | 2.55 | 3.2 |
| WSR01 | 20210413 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 13:52 | 9.52 | 8.33 | 30.71 | 28.64 | 2.48 | 2.7 |
| WSR01 | 20210413 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 13:52 | 8.71 | 8.27 | 30.90 | 28.71 | 2.42 | 3.0 |
| WSR01 | 20210413 | Sunny | Moderate | Mid-Ebb | Middle | 4.70 | 13:51 | 9.57 | 8.48 | 30.43 | 28.60 | 2.21 | 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) (Note 2) |
|----------|--------------------|---------|------------------|---------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR01 | 20210413 | Sunny | Moderate | Mid-Ebb | Middle | 4.70 | 13:51 | 9.37 | 8.24 | 30.40 | 28.75 | 2.21 | 2.6 |
| WSR01 | 20210413 | Sunny | Moderate | Mid-Ebb | Bottom | 8.40 | 13:50 | 9.62 | 8.33 | 31.53 | 28.71 | 2.02 | 2.5 |
| WSR01 | 20210413 | Sunny | Moderate | Mid-Ebb | Bottom | 8.40 | 13:50 | 9.43 | 8.48 | 30.97 | 28.60 | 2.17 | 3.1 |
| WSR01 | 20210415 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 14:50 | 9.09 | 8.45 | 32.02 | 23.16 | 2.58 | 3.4 |
| WSR01 | 20210415 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 14:50 | 9.20 | 8.21 | 32.21 | 23.31 | 2.53 | 4.7 |
| WSR01 | 20210415 | Cloudy | Moderate | Mid-Ebb | Middle | 4.70 | 14:49 | 8.22 | 8.50 | 31.66 | 23.25 | 2.06 | 3.9 |
| WSR01 | 20210415 | Cloudy | Moderate | Mid-Ebb | Middle | 4.70 | 14:49 | 8.02 | 8.44 | 31.80 | 23.16 | 2.06 | 4.2 |
| WSR01 | 20210415 | Cloudy | Moderate | Mid-Ebb | Bottom | 8.40 | 14:48 | 9.29 | 8.36 | 31.42 | 23.36 | 1.85 | 2.5 |
| WSR01 | 20210415 | Cloudy | Moderate | Mid-Ebb | Bottom | 8.40 | 14:48 | 8.77 | 8.47 | 31.63 | 23.27 | 1.61 | 2.5 |
| WSR01 | 20210417 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 15:15 | 8.34 | 8.47 | 31.81 | 23.35 | 2.27 | 4.2 |
| WSR01 | 20210417 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 15:15 | 9.29 | 8.71 | 31.59 | 23.35 | 2.37 | 4.1 |
| WSR01 | 20210417 | Cloudy | Moderate | Mid-Ebb | Middle | 4.35 | 15:14 | 8.42 | 8.64 | 32.03 | 23.37 | 2.64 | 4.1 |
| WSR01 | 20210417 | Cloudy | Moderate | Mid-Ebb | Middle | 4.35 | 15:14 | 8.04 | 8.65 | 31.55 | 23.21 | 2.75 | 2.5 |
| WSR01 | 20210417 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.70 | 15:13 | 9.78 | 8.52 | 31.61 | 23.39 | 2.55 | 3.1 |
| WSR01 | 20210417 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.70 | 15:13 | 8.25 | 8.49 | 31.93 | 23.38 | 2.47 | 3.5 |
| WSR01 | 20210420 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 17:52 | 7.58 | 8.21 | 27.35 | 24.24 | 2.88 | 3.1 |
| WSR01 | 20210420 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 17:52 | 7.98 | 8.46 | 26.76 | 24.12 | 3.26 | 3.0 |
| WSR01 | 20210420 | Cloudy | Moderate | Mid-Ebb | Middle | 4.60 | 17:51 | 7.64 | 8.36 | 27.33 | 24.06 | 2.98 | 2.9 |
| WSR01 | 20210420 | Cloudy | Moderate | Mid-Ebb | Middle | 4.60 | 17:51 | 7.45 | 8.44 | 27.73 | 24.14 | 2.55 | 5.2 |
| WSR01 | 20210420 | Cloudy | Moderate | Mid-Ebb | Bottom | 8.20 | 17:50 | 7.76 | 8.48 | 27.47 | 24.25 | 2.45 | 3.7 |
| WSR01 | 20210420 | Cloudy | Moderate | Mid-Ebb | Bottom | 8.20 | 17:50 | 7.49 | 8.37 | 27.86 | 24.03 | 2.65 | 4.3 |
| WSR01 | 20210422 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 18:35 | 8.17 | 8.27 | 30.37 | 28.74 | 2.90 | 2.7 |
| WSR01 | 20210422 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 18:35 | 9.06 | 8.19 | 30.92 | 28.62 | 2.89 | 2.5 |
| WSR01 | 20210422 | Sunny | Moderate | Mid-Ebb | Middle | 4.60 | 18:34 | 8.18 | 8.11 | 30.83 | 28.79 | 2.11 | 3.4 |
| WSR01 | 20210422 | Sunny | Moderate | Mid-Ebb | Middle | 4.60 | 18:34 | 8.94 | 8.14 | 30.64 | 28.75 | 2.37 | 3.1 |
| WSR01 | 20210422 | Sunny | Moderate | Mid-Ebb | Bottom | 8.20 | 18:33 | 8.06 | 8.20 | 30.35 | 28.69 | 2.40 | 3.1 |
| WSR01 | 20210422 | Sunny | Moderate | Mid-Ebb | Bottom | 8.20 | 18:33 | 8.75 | 8.13 | 31.00 | 28.70 | 2.25 | 2.6 |

| 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) (Note 2) |
|----------|--------------------|---------|------------------|---------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR01 | 20210424 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 11:07 | 9.04 | 8.08 | 31.25 | 24.10 | 2.28 | 2.5 |
| WSR01 | 20210424 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 11:07 | 9.35 | 8.14 | 31.29 | 24.12 | 2.27 | 2.5 |
| WSR01 | 20210424 | Cloudy | Moderate | Mid-Ebb | Middle | 4.45 | 11:06 | 9.21 | 8.33 | 31.30 | 24.01 | 2.58 | 2.5 |
| WSR01 | 20210424 | Cloudy | Moderate | Mid-Ebb | Middle | 4.45 | 11:06 | 8.82 | 8.20 | 30.86 | 24.10 | 2.30 | 2.8 |
| WSR01 | 20210424 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.90 | 11:05 | 8.91 | 8.32 | 31.22 | 24.12 | 1.68 | 2.5 |
| WSR01 | 20210424 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.90 | 11:05 | 9.41 | 8.36 | 31.12 | 24.07 | 1.96 | 2.5 |
| WSR01 | 20210427 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 12:58 | 9.17 | 8.37 | 30.48 | 23.74 | 2.35 | 4.6 |
| WSR01 | 20210427 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 12:58 | 8.71 | 8.51 | 30.90 | 23.57 | 2.12 | 3.3 |
| WSR01 | 20210427 | Cloudy | Moderate | Mid-Ebb | Middle | 4.20 | 12:57 | 9.81 | 8.47 | 31.52 | 23.74 | 2.08 | 2.5 |
| WSR01 | 20210427 | Cloudy | Moderate | Mid-Ebb | Middle | 4.20 | 12:57 | 8.93 | 8.42 | 30.66 | 23.67 | 2.26 | 2.8 |
| WSR01 | 20210427 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.40 | 12:56 | 9.54 | 8.50 | 31.50 | 23.91 | 2.35 | 2.9 |
| WSR01 | 20210427 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.40 | 12:56 | 9.09 | 8.49 | 30.81 | 23.69 | 2.04 | 3.2 |
| WSR01 | 20210429 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 14:16 | 8.67 | 8.30 | 30.57 | 26.75 | 2.34 | 5.2 |
| WSR01 | 20210429 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 14:16 | 9.02 | 8.16 | 30.59 | 26.65 | 2.25 | 3.7 |
| WSR01 | 20210429 | Sunny | Moderate | Mid-Ebb | Middle | 4.75 | 14:15 | 8.65 | 8.21 | 30.31 | 26.84 | 2.26 | 4.7 |
| WSR01 | 20210429 | Sunny | Moderate | Mid-Ebb | Middle | 4.75 | 14:15 | 8.93 | 8.15 | 30.27 | 26.72 | 1.99 | 5.7 |
| WSR01 | 20210429 | Sunny | Moderate | Mid-Ebb | Bottom | 8.50 | 14:14 | 9.15 | 8.40 | 30.25 | 26.87 | 2.15 | 4.4 |
| WSR01 | 20210429 | Sunny | Moderate | Mid-Ebb | Bottom | 8.50 | 14:14 | 8.77 | 8.16 | 30.58 | 26.76 | 2.05 | 3.1 |
| WSR02 | 20210401 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 15:25 | 8.52 | 8.10 | 31.73 | 27.84 | 2.71 | 2.5 |
| WSR02 | 20210401 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 15:25 | 8.84 | 8.11 | 31.90 | 27.67 | 2.62 | 2.5 |
| WSR02 | 20210401 | Sunny | Moderate | Mid-Ebb | Middle | 4.70 | 15:24 | 9.34 | 8.38 | 31.84 | 27.91 | 2.43 | 2.5 |
| WSR02 | 20210401 | Sunny | Moderate | Mid-Ebb | Middle | 4.70 | 15:24 | 8.75 | 8.33 | 31.69 | 27.60 | 2.58 | 2.5 |
| WSR02 | 20210401 | Sunny | Moderate | Mid-Ebb | Bottom | 8.40 | 15:23 | 9.16 | 8.28 | 31.11 | 27.63 | 2.23 | 2.5 |
| WSR02 | 20210401 | Sunny | Moderate | Mid-Ebb | Bottom | 8.40 | 15:23 | 8.43 | 8.27 | 31.05 | 27.73 | 2.30 | 2.5 |
| WSR02 | 20210403 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 16:56 | 8.54 | 8.28 | 28.98 | 27.13 | 2.66 | 2.5 |
| WSR02 | 20210403 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 16:56 | 8.48 | 8.30 | 28.90 | 27.24 | 3.10 | 2.7 |
| WSR02 | 20210403 | Sunny | Moderate | Mid-Ebb | Middle | 4.85 | 16:55 | 8.78 | 8.04 | 29.37 | 27.15 | 2.97 | 3.6 |

| 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) (Note 2) |
|----------|--------------------|---------|------------------|---------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR02 | 20210403 | Sunny | Moderate | Mid-Ebb | Middle | 4.85 | 16:55 | 8.17 | 8.18 | 28.88 | 27.43 | 2.81 | 2.9 |
| WSR02 | 20210403 | Sunny | Moderate | Mid-Ebb | Bottom | 8.70 | 16:54 | 8.42 | 8.09 | 28.73 | 27.31 | 3.03 | 4.5 |
| WSR02 | 20210403 | Sunny | Moderate | Mid-Ebb | Bottom | 8.70 | 16:54 | 8.89 | 7.96 | 29.39 | 27.11 | 3.03 | 4.7 |
| WSR02 | 20210406 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 17:19 | 8.51 | 8.18 | 29.84 | 23.17 | 2.61 | 3.5 |
| WSR02 | 20210406 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 17:19 | 8.89 | 8.29 | 29.66 | 23.17 | 2.93 | 2.5 |
| WSR02 | 20210406 | Cloudy | Moderate | Mid-Ebb | Middle | 4.60 | 17:18 | 8.83 | 8.28 | 29.64 | 23.24 | 2.64 | 2.5 |
| WSR02 | 20210406 | Cloudy | Moderate | Mid-Ebb | Middle | 4.60 | 17:18 | 8.85 | 8.34 | 29.78 | 23.29 | 2.33 | 2.8 |
| WSR02 | 20210406 | Cloudy | Moderate | Mid-Ebb | Bottom | 8.20 | 17:17 | 8.32 | 8.24 | 29.90 | 23.28 | 2.51 | 2.5 |
| WSR02 | 20210406 | Cloudy | Moderate | Mid-Ebb | Bottom | 8.20 | 17:17 | 8.68 | 8.32 | 29.91 | 23.21 | 2.22 | 2.9 |
| WSR02 | 20210408 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 10:43 | 9.28 | 8.56 | 30.35 | 23.50 | 3.13 | 2.5 |
| WSR02 | 20210408 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 10:43 | 9.09 | 8.39 | 30.59 | 23.77 | 2.83 | 2.6 |
| WSR02 | 20210408 | Cloudy | Moderate | Mid-Ebb | Middle | 4.85 | 10:42 | 8.60 | 8.49 | 30.25 | 23.78 | 2.51 | 2.7 |
| WSR02 | 20210408 | Cloudy | Moderate | Mid-Ebb | Middle | 4.85 | 10:42 | 8.79 | 8.34 | 29.98 | 23.69 | 2.47 | 2.5 |
| WSR02 | 20210408 | Cloudy | Moderate | Mid-Ebb | Bottom | 8.70 | 10:41 | 9.01 | 8.21 | 29.97 | 23.73 | 2.07 | 2.5 |
| WSR02 | 20210408 | Cloudy | Moderate | Mid-Ebb | Bottom | 8.70 | 10:41 | 8.88 | 8.55 | 30.28 | 23.59 | 2.40 | 2.5 |
| WSR02 | 20210410 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 11:29 | 8.83 | 8.36 | 31.75 | 23.89 | 2.78 | 2.5 |
| WSR02 | 20210410 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 11:29 | 9.12 | 8.30 | 31.17 | 23.90 | 2.74 | 2.5 |
| WSR02 | 20210410 | Cloudy | Moderate | Mid-Ebb | Middle | 4.90 | 11:28 | 9.20 | 8.45 | 31.44 | 23.80 | 2.64 | 4.9 |
| WSR02 | 20210410 | Cloudy | Moderate | Mid-Ebb | Middle | 4.90 | 11:28 | 9.24 | 8.29 | 31.59 | 23.98 | 2.25 | 2.7 |
| WSR02 | 20210410 | Cloudy | Moderate | Mid-Ebb | Bottom | 8.80 | 11:27 | 9.21 | 8.36 | 31.21 | 23.72 | 2.04 | 2.6 |
| WSR02 | 20210410 | Cloudy | Moderate | Mid-Ebb | Bottom | 8.80 | 11:27 | 8.57 | 8.21 | 31.10 | 23.83 | 2.23 | 3.4 |
| WSR02 | 20210413 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 13:33 | 8.77 | 8.26 | 31.46 | 28.78 | 2.59 | 2.5 |
| WSR02 | 20210413 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 13:33 | 8.95 | 8.37 | 31.03 | 28.62 | 2.54 | 2.5 |
| WSR02 | 20210413 | Sunny | Moderate | Mid-Ebb | Middle | 4.70 | 13:32 | 9.02 | 8.48 | 30.84 | 28.80 | 2.15 | 2.5 |
| WSR02 | 20210413 | Sunny | Moderate | Mid-Ebb | Middle | 4.70 | 13:32 | 8.96 | 8.48 | 30.71 | 28.56 | 2.57 | 2.5 |
| WSR02 | 20210413 | Sunny | Moderate | Mid-Ebb | Bottom | 8.40 | 13:31 | 9.65 | 8.29 | 31.06 | 28.64 | 1.95 | 3.5 |
| WSR02 | 20210413 | Sunny | Moderate | Mid-Ebb | Bottom | 8.40 | 13:31 | 9.12 | 8.55 | 30.18 | 28.78 | 1.69 | 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) (Note 2) |
|----------|--------------------|---------|------------------|---------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR02 | 20210415 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 14:29 | 9.21 | 8.27 | 31.74 | 23.18 | 1.85 | 3.0 |
| WSR02 | 20210415 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 14:29 | 9.37 | 8.30 | 31.25 | 23.31 | 1.58 | 3.0 |
| WSR02 | 20210415 | Cloudy | Moderate | Mid-Ebb | Middle | 4.55 | 14:28 | 8.44 | 8.35 | 31.43 | 23.14 | 2.36 | 4.0 |
| WSR02 | 20210415 | Cloudy | Moderate | Mid-Ebb | Middle | 4.55 | 14:28 | 9.03 | 8.24 | 31.46 | 23.28 | 1.98 | 3.0 |
| WSR02 | 20210415 | Cloudy | Moderate | Mid-Ebb | Bottom | 8.10 | 14:27 | 8.80 | 8.25 | 32.05 | 23.34 | 1.67 | 2.5 |
| WSR02 | 20210415 | Cloudy | Moderate | Mid-Ebb | Bottom | 8.10 | 14:27 | 8.29 | 8.23 | 31.59 | 23.36 | 1.81 | 2.5 |
| WSR02 | 20210417 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 14:56 | 9.75 | 8.60 | 32.16 | 23.41 | 2.23 | 2.5 |
| WSR02 | 20210417 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 14:56 | 8.08 | 8.51 | 31.49 | 23.14 | 2.35 | 2.5 |
| WSR02 | 20210417 | Cloudy | Moderate | Mid-Ebb | Middle | 4.75 | 14:55 | 9.76 | 8.58 | 32.35 | 23.38 | 2.55 | 2.5 |
| WSR02 | 20210417 | Cloudy | Moderate | Mid-Ebb | Middle | 4.75 | 14:55 | 8.80 | 8.63 | 31.66 | 23.34 | 2.14 | 2.5 |
| WSR02 | 20210417 | Cloudy | Moderate | Mid-Ebb | Bottom | 8.50 | 14:54 | 8.37 | 8.52 | 31.32 | 23.19 | 1.95 | 2.5 |
| WSR02 | 20210417 | Cloudy | Moderate | Mid-Ebb | Bottom | 8.50 | 14:54 | 9.92 | 8.72 | 31.18 | 23.15 | 2.14 | 3.4 |
| WSR02 | 20210420 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 17:34 | 7.71 | 8.42 | 27.52 | 24.06 | 3.35 | 3.0 |
| WSR02 | 20210420 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 17:34 | 8.24 | 8.49 | 27.35 | 24.13 | 3.21 | 2.5 |
| WSR02 | 20210420 | Cloudy | Moderate | Mid-Ebb | Middle | 4.90 | 17:33 | 8.21 | 8.26 | 27.48 | 23.95 | 2.77 | 4.4 |
| WSR02 | 20210420 | Cloudy | Moderate | Mid-Ebb | Middle | 4.90 | 17:33 | 7.66 | 8.41 | 27.67 | 24.14 | 3.16 | 2.5 |
| WSR02 | 20210420 | Cloudy | Moderate | Mid-Ebb | Bottom | 8.80 | 17:32 | 7.79 | 8.36 | 27.74 | 24.24 | 2.99 | 2.5 |
| WSR02 | 20210420 | Cloudy | Moderate | Mid-Ebb | Bottom | 8.80 | 17:32 | 7.84 | 8.31 | 27.63 | 24.08 | 2.62 | 5.8 |
| WSR02 | 20210422 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 18:14 | 8.12 | 8.29 | 30.28 | 28.76 | 2.15 | 5.2 |
| WSR02 | 20210422 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 18:14 | 8.81 | 8.31 | 30.30 | 28.74 | 2.44 | 3.0 |
| WSR02 | 20210422 | Sunny | Moderate | Mid-Ebb | Middle | 4.80 | 18:13 | 8.60 | 8.11 | 31.00 | 28.73 | 2.65 | 4.0 |
| WSR02 | 20210422 | Sunny | Moderate | Mid-Ebb | Middle | 4.80 | 18:13 | 8.05 | 8.21 | 31.08 | 28.90 | 2.54 | 2.7 |
| WSR02 | 20210422 | Sunny | Moderate | Mid-Ebb | Bottom | 8.60 | 18:12 | 9.12 | 8.30 | 30.40 | 28.79 | 1.71 | 2.5 |
| WSR02 | 20210422 | Sunny | Moderate | Mid-Ebb | Bottom | 8.60 | 18:12 | 8.08 | 8.22 | 31.11 | 28.68 | 1.90 | 2.5 |
| WSR02 | 20210424 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 10:46 | 9.28 | 8.11 | 30.79 | 23.89 | 2.81 | 2.5 |
| WSR02 | 20210424 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 10:46 | 8.82 | 8.25 | 31.19 | 23.88 | 2.70 | 2.5 |
| WSR02 | 20210424 | Cloudy | Moderate | Mid-Ebb | Middle | 4.50 | 10:45 | 9.21 | 8.17 | 31.35 | 24.00 | 2.30 | 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) (Note 2) |
|----------|--------------------|---------|------------------|---------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR02 | 20210424 | Cloudy | Moderate | Mid-Ebb | Middle | 4.50 | 10:45 | 9.48 | 8.33 | 31.05 | 23.88 | 1.95 | 3.8 |
| WSR02 | 20210424 | Cloudy | Moderate | Mid-Ebb | Bottom | 8.00 | 10:44 | 8.72 | 8.08 | 30.97 | 24.08 | 2.35 | 3.9 |
| WSR02 | 20210424 | Cloudy | Moderate | Mid-Ebb | Bottom | 8.00 | 10:44 | 8.86 | 8.21 | 31.16 | 23.97 | 2.42 | 2.5 |
| WSR02 | 20210427 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 12:39 | 9.35 | 8.27 | 30.41 | 23.63 | 2.83 | 2.5 |
| WSR02 | 20210427 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 12:39 | 9.02 | 8.48 | 30.62 | 23.80 | 2.64 | 2.5 |
| WSR02 | 20210427 | Cloudy | Moderate | Mid-Ebb | Middle | 4.95 | 12:38 | 9.79 | 8.44 | 30.32 | 23.78 | 2.54 | 2.8 |
| WSR02 | 20210427 | Cloudy | Moderate | Mid-Ebb | Middle | 4.95 | 12:38 | 9.19 | 8.31 | 31.14 | 23.81 | 2.48 | 2.7 |
| WSR02 | 20210427 | Cloudy | Moderate | Mid-Ebb | Bottom | 8.90 | 12:37 | 9.30 | 8.45 | 31.44 | 23.73 | 1.96 | 2.5 |
| WSR02 | 20210427 | Cloudy | Moderate | Mid-Ebb | Bottom | 8.90 | 12:37 | 10.14 | 8.39 | 30.39 | 23.66 | 2.12 | 2.7 |
| WSR02 | 20210429 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 13:55 | 8.70 | 8.17 | 30.22 | 26.59 | 2.37 | 4.3 |
| WSR02 | 20210429 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 13:55 | 8.91 | 8.19 | 30.46 | 26.59 | 2.13 | 3.4 |
| WSR02 | 20210429 | Sunny | Moderate | Mid-Ebb | Middle | 4.65 | 13:54 | 8.63 | 8.23 | 30.35 | 26.63 | 2.12 | 3.5 |
| WSR02 | 20210429 | Sunny | Moderate | Mid-Ebb | Middle | 4.65 | 13:54 | 9.17 | 8.34 | 30.20 | 26.81 | 1.95 | 2.5 |
| WSR02 | 20210429 | Sunny | Moderate | Mid-Ebb | Bottom | 8.30 | 13:53 | 8.59 | 8.20 | 30.27 | 26.50 | 2.11 | 2.5 |
| WSR02 | 20210429 | Sunny | Moderate | Mid-Ebb | Bottom | 8.30 | 13:53 | 8.84 | 8.18 | 30.58 | 26.59 | 1.99 | 4.1 |
| WSR03 | 20210401 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 15:07 | 8.55 | 8.18 | 31.20 | 27.62 | 2.64 | 2.5 |
| WSR03 | 20210401 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 15:07 | 8.31 | 8.20 | 31.30 | 27.57 | 2.28 | 2.5 |
| WSR03 | 20210401 | Sunny | Moderate | Mid-Ebb | Middle | 3.90 | 15:06 | 8.31 | 8.38 | 31.18 | 27.66 | 2.63 | 2.5 |
| WSR03 | 20210401 | Sunny | Moderate | Mid-Ebb | Middle | 3.90 | 15:06 | 8.92 | 8.32 | 31.62 | 27.58 | 2.40 | 2.5 |
| WSR03 | 20210401 | Sunny | Moderate | Mid-Ebb | Bottom | 6.80 | 15:05 | 8.91 | 8.26 | 31.90 | 27.81 | 2.25 | 2.5 |
| WSR03 | 20210401 | Sunny | Moderate | Mid-Ebb | Bottom | 6.80 | 15:05 | 8.49 | 8.35 | 31.88 | 27.93 | 2.32 | 2.5 |
| WSR03 | 20210403 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 16:40 | 8.37 | 8.24 | 29.06 | 27.09 | 3.25 | 4.9 |
| WSR03 | 20210403 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 16:40 | 8.12 | 8.26 | 29.47 | 27.03 | 2.73 | 6.2 |
| WSR03 | 20210403 | Sunny | Moderate | Mid-Ebb | Middle | 4.10 | 16:39 | 8.10 | 8.08 | 29.44 | 27.06 | 2.88 | 4.3 |
| WSR03 | 20210403 | Sunny | Moderate | Mid-Ebb | Middle | 4.10 | 16:39 | 8.19 | 7.97 | 29.13 | 27.27 | 2.71 | 3.2 |
| WSR03 | 20210403 | Sunny | Moderate | Mid-Ebb | Bottom | 7.20 | 16:38 | 8.31 | 8.03 | 29.58 | 27.06 | 2.78 | 4.4 |
| WSR03 | 20210403 | Sunny | Moderate | Mid-Ebb | Bottom | 7.20 | 16:38 | 8.12 | 8.10 | 28.90 | 27.29 | 2.99 | 3.4 |

| 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) (Note 2) |
|----------|--------------------|---------|------------------|---------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR03 | 20210406 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 17:03 | 8.56 | 8.32 | 29.87 | 23.27 | 2.94 | 2.6 |
| WSR03 | 20210406 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 17:03 | 8.55 | 8.31 | 29.58 | 23.12 | 2.98 | 2.5 |
| WSR03 | 20210406 | Cloudy | Moderate | Mid-Ebb | Middle | 3.80 | 17:02 | 8.41 | 8.21 | 29.67 | 23.13 | 2.64 | 2.7 |
| WSR03 | 20210406 | Cloudy | Moderate | Mid-Ebb | Middle | 3.80 | 17:02 | 8.89 | 8.33 | 29.68 | 23.31 | 2.61 | 2.9 |
| WSR03 | 20210406 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.60 | 17:01 | 8.33 | 8.29 | 29.66 | 23.17 | 2.67 | 3.4 |
| WSR03 | 20210406 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.60 | 17:01 | 8.27 | 8.24 | 29.92 | 23.28 | 2.68 | 2.5 |
| WSR03 | 20210408 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 10:27 | 9.34 | 8.32 | 29.89 | 23.49 | 2.60 | 2.5 |
| WSR03 | 20210408 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 10:27 | 9.13 | 8.46 | 30.12 | 23.74 | 3.02 | 2.5 |
| WSR03 | 20210408 | Cloudy | Moderate | Mid-Ebb | Middle | 3.80 | 10:26 | 9.12 | 8.27 | 30.30 | 23.54 | 2.34 | 2.5 |
| WSR03 | 20210408 | Cloudy | Moderate | Mid-Ebb | Middle | 3.80 | 10:26 | 9.04 | 8.46 | 29.96 | 23.57 | 2.71 | 2.5 |
| WSR03 | 20210408 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.60 | 10:25 | 8.61 | 8.54 | 30.41 | 23.50 | 2.60 | 2.5 |
| WSR03 | 20210408 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.60 | 10:25 | 9.39 | 8.47 | 29.95 | 23.63 | 2.70 | 2.5 |
| WSR03 | 20210410 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 11:13 | 9.25 | 8.44 | 31.30 | 23.82 | 2.87 | 2.5 |
| WSR03 | 20210410 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 11:13 | 9.09 | 8.34 | 31.61 | 23.76 | 3.24 | 2.5 |
| WSR03 | 20210410 | Cloudy | Moderate | Mid-Ebb | Middle | 3.95 | 11:12 | 8.79 | 8.29 | 30.90 | 23.77 | 2.59 | 3.8 |
| WSR03 | 20210410 | Cloudy | Moderate | Mid-Ebb | Middle | 3.95 | 11:12 | 8.96 | 8.34 | 31.46 | 23.86 | 2.33 | 2.7 |
| WSR03 | 20210410 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.90 | 11:11 | 9.12 | 8.35 | 31.93 | 23.89 | 2.53 | 2.8 |
| WSR03 | 20210410 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.90 | 11:11 | 8.67 | 8.33 | 31.24 | 23.69 | 2.61 | 2.9 |
| WSR03 | 20210413 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 13:15 | 8.96 | 8.32 | 30.60 | 28.51 | 2.43 | 2.8 |
| WSR03 | 20210413 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 13:15 | 8.95 | 8.39 | 30.21 | 28.59 | 2.07 | 2.5 |
| WSR03 | 20210413 | Sunny | Moderate | Mid-Ebb | Middle | 4.15 | 13:14 | 9.57 | 8.43 | 30.98 | 28.67 | 2.18 | 2.5 |
| WSR03 | 20210413 | Sunny | Moderate | Mid-Ebb | Middle | 4.15 | 13:14 | 9.93 | 8.51 | 30.79 | 28.81 | 2.60 | 2.5 |
| WSR03 | 20210413 | Sunny | Moderate | Mid-Ebb | Bottom | 7.30 | 13:13 | 9.44 | 8.46 | 30.42 | 28.64 | 2.23 | 2.8 |
| WSR03 | 20210413 | Sunny | Moderate | Mid-Ebb | Bottom | 7.30 | 13:13 | 9.55 | 8.29 | 30.96 | 28.74 | 2.14 | 2.5 |
| WSR03 | 20210415 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 14:11 | 9.50 | 8.33 | 31.18 | 23.28 | 1.90 | 3.2 |
| WSR03 | 20210415 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 14:11 | 9.03 | 8.32 | 31.84 | 23.35 | 2.14 | 2.5 |
| WSR03 | 20210415 | Cloudy | Moderate | Mid-Ebb | Middle | 4.00 | 14:10 | 8.51 | 8.25 | 31.94 | 23.41 | 2.22 | 4.3 |

| 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) (Note 2) |
|----------|--------------------|---------|------------------|---------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR03 | 20210415 | Cloudy | Moderate | Mid-Ebb | Middle | 4.00 | 14:10 | 9.03 | 8.46 | 31.15 | 23.36 | 2.02 | 2.5 |
| WSR03 | 20210415 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.00 | 14:09 | 8.09 | 8.48 | 31.53 | 23.22 | 1.72 | 3.8 |
| WSR03 | 20210415 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.00 | 14:09 | 8.12 | 8.43 | 31.31 | 23.19 | 1.80 | 2.6 |
| WSR03 | 20210417 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 14:38 | 8.01 | 8.70 | 31.53 | 23.31 | 2.22 | 3.0 |
| WSR03 | 20210417 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 14:38 | 8.02 | 8.51 | 31.61 | 23.42 | 2.35 | 2.5 |
| WSR03 | 20210417 | Cloudy | Moderate | Mid-Ebb | Middle | 3.75 | 14:37 | 9.31 | 8.66 | 31.50 | 23.42 | 2.61 | 2.6 |
| WSR03 | 20210417 | Cloudy | Moderate | Mid-Ebb | Middle | 3.75 | 14:37 | 9.27 | 8.58 | 31.24 | 23.41 | 2.21 | 3.5 |
| WSR03 | 20210417 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.50 | 14:36 | 9.69 | 8.50 | 31.18 | 23.30 | 2.18 | 2.5 |
| WSR03 | 20210417 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.50 | 14:36 | 8.58 | 8.63 | 31.18 | 23.31 | 2.01 | 2.6 |
| WSR03 | 20210420 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 17:19 | 8.13 | 8.27 | 26.95 | 23.97 | 3.24 | 3.1 |
| WSR03 | 20210420 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 17:19 | 7.60 | 8.43 | 27.96 | 24.26 | 3.38 | 5.3 |
| WSR03 | 20210420 | Cloudy | Moderate | Mid-Ebb | Middle | 3.95 | 17:18 | 7.99 | 8.39 | 27.06 | 24.02 | 2.81 | 6.9 |
| WSR03 | 20210420 | Cloudy | Moderate | Mid-Ebb | Middle | 3.95 | 17:18 | 7.53 | 8.40 | 27.07 | 24.13 | 2.58 | 3.9 |
| WSR03 | 20210420 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.90 | 17:17 | 7.59 | 8.26 | 27.75 | 24.13 | 2.68 | 4.7 |
| WSR03 | 20210420 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.90 | 17:17 | 8.21 | 8.22 | 27.39 | 24.26 | 3.01 | 3.6 |
| WSR03 | 20210422 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 17:56 | 8.82 | 8.21 | 30.46 | 28.87 | 2.80 | 2.5 |
| WSR03 | 20210422 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 17:56 | 9.21 | 8.21 | 30.45 | 28.72 | 2.48 | 2.5 |
| WSR03 | 20210422 | Sunny | Moderate | Mid-Ebb | Middle | 3.75 | 17:55 | 8.26 | 8.18 | 31.05 | 28.61 | 2.08 | 3.3 |
| WSR03 | 20210422 | Sunny | Moderate | Mid-Ebb | Middle | 3.75 | 17:55 | 8.88 | 8.13 | 31.08 | 28.74 | 2.03 | 3.5 |
| WSR03 | 20210422 | Sunny | Moderate | Mid-Ebb | Bottom | 6.50 | 17:54 | 8.65 | 8.14 | 30.78 | 28.81 | 2.11 | 3.6 |
| WSR03 | 20210422 | Sunny | Moderate | Mid-Ebb | Bottom | 6.50 | 17:54 | 8.90 | 8.26 | 30.59 | 28.87 | 2.30 | 2.7 |
| WSR03 | 20210424 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 10:28 | 9.06 | 8.29 | 31.10 | 23.85 | 2.02 | 2.5 |
| WSR03 | 20210424 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 10:28 | 9.14 | 8.32 | 31.14 | 23.97 | 2.15 | 2.5 |
| WSR03 | 20210424 | Cloudy | Moderate | Mid-Ebb | Middle | 3.95 | 10:27 | 8.85 | 8.32 | 30.93 | 23.95 | 2.40 | 2.5 |
| WSR03 | 20210424 | Cloudy | Moderate | Mid-Ebb | Middle | 3.95 | 10:27 | 9.02 | 8.08 | 30.97 | 23.90 | 2.56 | 2.5 |
| WSR03 | 20210424 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.90 | 10:26 | 8.96 | 8.23 | 30.77 | 23.85 | 1.54 | 2.5 |
| WSR03 | 20210424 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.90 | 10:26 | 8.68 | 8.22 | 31.11 | 23.91 | 1.80 | 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) (Note 2) |
|----------|--------------------|---------|------------------|---------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR03 | 20210427 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 12:19 | 10.18 | 8.37 | 31.24 | 23.71 | 2.58 | 3.4 |
| WSR03 | 20210427 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 12:19 | 9.72 | 8.33 | 31.01 | 23.82 | 2.26 | 2.5 |
| WSR03 | 20210427 | Cloudy | Moderate | Mid-Ebb | Middle | 4.05 | 12:18 | 9.65 | 8.31 | 31.61 | 23.63 | 2.59 | 2.9 |
| WSR03 | 20210427 | Cloudy | Moderate | Mid-Ebb | Middle | 4.05 | 12:18 | 9.13 | 8.22 | 31.36 | 23.57 | 2.24 | 3.8 |
| WSR03 | 20210427 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.10 | 12:17 | 9.17 | 8.28 | 30.48 | 23.88 | 2.28 | 2.8 |
| WSR03 | 20210427 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.10 | 12:17 | 9.19 | 8.42 | 30.95 | 23.72 | 2.59 | 3.0 |
| WSR03 | 20210429 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 13:39 | 8.69 | 8.40 | 30.39 | 26.65 | 2.88 | 6.0 |
| WSR03 | 20210429 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 13:39 | 8.98 | 8.35 | 30.30 | 26.51 | 2.47 | 4.0 |
| WSR03 | 20210429 | Sunny | Moderate | Mid-Ebb | Middle | 4.00 | 13:38 | 8.88 | 8.28 | 30.50 | 26.46 | 2.64 | 2.6 |
| WSR03 | 20210429 | Sunny | Moderate | Mid-Ebb | Middle | 4.00 | 13:38 | 9.21 | 8.37 | 30.70 | 26.72 | 2.32 | 4.6 |
| WSR03 | 20210429 | Sunny | Moderate | Mid-Ebb | Bottom | 7.00 | 13:37 | 9.18 | 8.31 | 30.22 | 26.55 | 1.61 | 8.8 |
| WSR03 | 20210429 | Sunny | Moderate | Mid-Ebb | Bottom | 7.00 | 13:37 | 8.85 | 8.14 | 30.26 | 26.78 | 1.77 | 3.1 |
| WSR04 | 20210401 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 14:52 | 9.15 | 8.13 | 31.14 | 27.76 | 2.43 | 2.5 |
| WSR04 | 20210401 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 14:52 | 8.03 | 8.19 | 31.30 | 27.61 | 2.27 | 2.5 |
| WSR04 | 20210401 | Sunny | Moderate | Mid-Ebb | Middle | 3.55 | 14:51 | 9.35 | 8.17 | 30.98 | 27.78 | 2.22 | 2.9 |
| WSR04 | 20210401 | Sunny | Moderate | Mid-Ebb | Middle | 3.55 | 14:51 | 8.38 | 8.11 | 31.12 | 27.73 | 2.66 | 2.5 |
| WSR04 | 20210401 | Sunny | Moderate | Mid-Ebb | Bottom | 6.10 | 14:50 | 8.64 | 8.25 | 30.74 | 27.72 | 2.52 | 2.5 |
| WSR04 | 20210401 | Sunny | Moderate | Mid-Ebb | Bottom | 6.10 | 14:50 | 8.76 | 8.30 | 31.84 | 27.62 | 2.87 | 2.5 |
| WSR04 | 20210403 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 16:25 | 8.46 | 8.02 | 29.29 | 27.09 | 2.80 | 3.7 |
| WSR04 | 20210403 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 16:25 | 8.24 | 8.04 | 29.12 | 27.30 | 2.67 | 2.9 |
| WSR04 | 20210403 | Sunny | Moderate | Mid-Ebb | Middle | 3.90 | 16:24 | 8.12 | 7.95 | 29.10 | 27.14 | 2.45 | 2.5 |
| WSR04 | 20210403 | Sunny | Moderate | Mid-Ebb | Middle | 3.90 | 16:24 | 8.81 | 8.29 | 28.73 | 27.12 | 2.82 | 3.6 |
| WSR04 | 20210403 | Sunny | Moderate | Mid-Ebb | Bottom | 6.80 | 16:23 | 8.34 | 8.12 | 29.56 | 27.16 | 2.89 | 4.5 |
| WSR04 | 20210403 | Sunny | Moderate | Mid-Ebb | Bottom | 6.80 | 16:23 | 8.84 | 8.23 | 29.22 | 27.18 | 2.75 | 3.9 |
| WSR04 | 20210406 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 16:50 | 8.73 | 8.22 | 29.58 | 23.28 | 2.90 | 2.8 |
| WSR04 | 20210406 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 16:50 | 8.32 | 8.17 | 29.74 | 23.28 | 3.17 | 2.5 |
| WSR04 | 20210406 | Cloudy | Moderate | Mid-Ebb | Middle | 3.75 | 16:49 | 8.69 | 8.33 | 29.76 | 23.16 | 2.73 | 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) (Note 2) |
|----------|--------------------|---------|------------------|---------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR04 | 20210406 | Cloudy | Moderate | Mid-Ebb | Middle | 3.75 | 16:49 | 8.58 | 8.23 | 29.67 | 23.31 | 2.60 | 2.9 |
| WSR04 | 20210406 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.50 | 16:48 | 8.59 | 8.26 | 29.74 | 23.19 | 2.59 | 2.9 |
| WSR04 | 20210406 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.50 | 16:48 | 8.65 | 8.23 | 29.68 | 23.13 | 2.43 | 3.0 |
| WSR04 | 20210408 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 10:14 | 9.05 | 8.33 | 30.27 | 23.61 | 2.74 | 2.5 |
| WSR04 | 20210408 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 10:14 | 8.85 | 8.22 | 29.95 | 23.65 | 2.95 | 2.5 |
| WSR04 | 20210408 | Cloudy | Moderate | Mid-Ebb | Middle | 3.45 | 10:13 | 9.37 | 8.33 | 30.19 | 23.65 | 2.57 | 2.5 |
| WSR04 | 20210408 | Cloudy | Moderate | Mid-Ebb | Middle | 3.45 | 10:13 | 8.78 | 8.42 | 29.96 | 23.56 | 2.87 | 2.5 |
| WSR04 | 20210408 | Cloudy | Moderate | Mid-Ebb | Bottom | 5.90 | 10:12 | 8.97 | 8.40 | 30.42 | 23.66 | 2.22 | 2.5 |
| WSR04 | 20210408 | Cloudy | Moderate | Mid-Ebb | Bottom | 5.90 | 10:12 | 8.88 | 8.32 | 30.50 | 23.44 | 2.61 | 2.9 |
| WSR04 | 20210410 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 11:02 | 9.22 | 8.20 | 31.42 | 23.77 | 2.49 | 2.7 |
| WSR04 | 20210410 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 11:02 | 8.89 | 8.45 | 31.95 | 23.61 | 2.62 | 3.4 |
| WSR04 | 20210410 | Cloudy | Moderate | Mid-Ebb | Middle | 3.50 | 11:01 | 8.90 | 8.39 | 31.94 | 23.70 | 3.07 | 2.5 |
| WSR04 | 20210410 | Cloudy | Moderate | Mid-Ebb | Middle | 3.50 | 11:01 | 8.82 | 8.26 | 30.89 | 23.77 | 2.67 | 3.8 |
| WSR04 | 20210410 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.00 | 11:00 | 8.88 | 8.26 | 30.91 | 23.66 | 2.20 | 2.5 |
| WSR04 | 20210410 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.00 | 11:00 | 8.77 | 8.28 | 31.72 | 23.91 | 2.59 | 3.0 |
| WSR04 | 20210413 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 13:01 | 9.51 | 8.49 | 30.69 | 28.55 | 2.31 | 2.5 |
| WSR04 | 20210413 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 13:01 | 9.67 | 8.54 | 31.36 | 28.75 | 2.05 | 2.5 |
| WSR04 | 20210413 | Sunny | Moderate | Mid-Ebb | Middle | 3.35 | 13:00 | 9.82 | 8.51 | 30.81 | 28.57 | 2.01 | 2.5 |
| WSR04 | 20210413 | Sunny | Moderate | Mid-Ebb | Middle | 3.35 | 13:00 | 9.55 | 8.32 | 30.74 | 28.58 | 1.91 | 2.5 |
| WSR04 | 20210413 | Sunny | Moderate | Mid-Ebb | Bottom | 5.70 | 12:59 | 9.04 | 8.41 | 30.67 | 28.49 | 1.97 | 2.5 |
| WSR04 | 20210413 | Sunny | Moderate | Mid-Ebb | Bottom | 5.70 | 12:59 | 9.91 | 8.41 | 31.23 | 28.41 | 2.07 | 2.6 |
| WSR04 | 20210415 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 13:56 | 7.78 | 8.37 | 31.09 | 23.32 | 2.49 | 3.7 |
| WSR04 | 20210415 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 13:56 | 9.33 | 8.34 | 31.40 | 23.38 | 2.57 | 4.1 |
| WSR04 | 20210415 | Cloudy | Moderate | Mid-Ebb | Middle | 3.35 | 13:55 | 9.33 | 8.30 | 31.27 | 23.34 | 1.63 | 4.3 |
| WSR04 | 20210415 | Cloudy | Moderate | Mid-Ebb | Middle | 3.35 | 13:55 | 8.77 | 8.22 | 32.16 | 23.25 | 1.88 | 3.2 |
| WSR04 | 20210415 | Cloudy | Moderate | Mid-Ebb | Bottom | 5.70 | 13:54 | 8.09 | 8.45 | 31.94 | 23.30 | 1.57 | 2.5 |
| WSR04 | 20210415 | Cloudy | Moderate | Mid-Ebb | Bottom | 5.70 | 13:54 | 9.60 | 8.27 | 31.19 | 23.20 | 1.86 | 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) (Note 2) |
|----------|--------------------|---------|------------------|---------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR04 | 20210417 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 14:23 | 8.71 | 8.74 | 32.15 | 23.25 | 2.77 | 2.5 |
| WSR04 | 20210417 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 14:23 | 8.02 | 8.75 | 32.29 | 23.23 | 3.08 | 4.3 |
| WSR04 | 20210417 | Cloudy | Moderate | Mid-Ebb | Middle | 3.50 | 14:22 | 8.36 | 8.55 | 32.11 | 23.17 | 2.67 | 2.5 |
| WSR04 | 20210417 | Cloudy | Moderate | Mid-Ebb | Middle | 3.50 | 14:22 | 8.04 | 8.52 | 31.18 | 23.15 | 2.55 | 3.4 |
| WSR04 | 20210417 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.00 | 14:21 | 8.89 | 8.54 | 31.42 | 23.14 | 2.50 | 3.4 |
| WSR04 | 20210417 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.00 | 14:21 | 8.67 | 8.56 | 31.74 | 23.24 | 2.31 | 3.2 |
| WSR04 | 20210420 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 17:04 | 8.02 | 8.27 | 27.95 | 24.00 | 3.36 | 3.9 |
| WSR04 | 20210420 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 17:04 | 7.76 | 8.22 | 27.78 | 24.08 | 2.96 | 3.9 |
| WSR04 | 20210420 | Cloudy | Moderate | Mid-Ebb | Middle | 3.55 | 17:03 | 8.12 | 8.39 | 27.19 | 24.16 | 2.87 | 5.4 |
| WSR04 | 20210420 | Cloudy | Moderate | Mid-Ebb | Middle | 3.55 | 17:03 | 8.18 | 8.35 | 26.88 | 24.01 | 2.97 | 3.5 |
| WSR04 | 20210420 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.10 | 17:02 | 8.00 | 8.37 | 27.48 | 24.10 | 2.68 | 3.6 |
| WSR04 | 20210420 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.10 | 17:02 | 7.58 | 8.34 | 27.79 | 23.93 | 2.58 | 4.1 |
| WSR04 | 20210422 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 17:41 | 9.14 | 8.24 | 30.72 | 28.82 | 2.43 | 2.5 |
| WSR04 | 20210422 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 17:41 | 8.32 | 8.29 | 30.54 | 28.72 | 2.67 | 2.5 |
| WSR04 | 20210422 | Sunny | Moderate | Mid-Ebb | Middle | 3.75 | 17:40 | 8.56 | 8.18 | 30.45 | 28.63 | 2.21 | 2.6 |
| WSR04 | 20210422 | Sunny | Moderate | Mid-Ebb | Middle | 3.75 | 17:40 | 9.02 | 8.26 | 31.13 | 28.71 | 1.97 | 3.0 |
| WSR04 | 20210422 | Sunny | Moderate | Mid-Ebb | Bottom | 6.50 | 17:39 | 9.02 | 8.12 | 31.03 | 28.70 | 2.34 | 2.9 |
| WSR04 | 20210422 | Sunny | Moderate | Mid-Ebb | Bottom | 6.50 | 17:39 | 9.04 | 8.30 | 30.84 | 28.68 | 2.62 | 2.5 |
| WSR04 | 20210424 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 10:13 | 8.58 | 8.25 | 31.06 | 23.92 | 2.16 | 3.0 |
| WSR04 | 20210424 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 10:13 | 8.94 | 8.24 | 31.33 | 23.85 | 2.30 | 2.5 |
| WSR04 | 20210424 | Cloudy | Moderate | Mid-Ebb | Middle | 3.70 | 10:12 | 8.70 | 8.14 | 31.31 | 23.90 | 1.94 | 2.9 |
| WSR04 | 20210424 | Cloudy | Moderate | Mid-Ebb | Middle | 3.70 | 10:12 | 9.35 | 8.14 | 30.89 | 23.85 | 2.22 | 2.8 |
| WSR04 | 20210424 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.40 | 10:11 | 9.30 | 8.21 | 30.76 | 23.86 | 2.37 | 2.5 |
| WSR04 | 20210424 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.40 | 10:11 | 9.28 | 8.11 | 31.22 | 23.82 | 2.41 | 3.3 |
| WSR04 | 20210427 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 12:06 | 9.53 | 8.26 | 30.84 | 23.68 | 2.36 | 4.5 |
| WSR04 | 20210427 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 12:06 | 9.27 | 8.39 | 30.30 | 23.79 | 2.16 | 2.5 |
| WSR04 | 20210427 | Cloudy | Moderate | Mid-Ebb | Middle | 3.50 | 12:05 | 9.82 | 8.27 | 31.10 | 23.71 | 2.25 | 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) (Note 2) |
|----------|--------------------|---------|------------------|---------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR04 | 20210427 | Cloudy | Moderate | Mid-Ebb | Middle | 3.50 | 12:05 | 10.06 | 8.35 | 31.02 | 23.77 | 2.58 | 3.8 |
| WSR04 | 20210427 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.00 | 12:04 | 9.08 | 8.28 | 30.91 | 23.80 | 2.05 | 3.3 |
| WSR04 | 20210427 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.00 | 12:04 | 9.63 | 8.22 | 30.88 | 23.79 | 2.24 | 3.4 |
| WSR04 | 20210429 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 13:24 | 8.90 | 8.31 | 30.31 | 26.49 | 2.21 | 2.9 |
| WSR04 | 20210429 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 13:24 | 8.60 | 8.14 | 30.75 | 26.59 | 2.34 | 3.2 |
| WSR04 | 20210429 | Sunny | Moderate | Mid-Ebb | Middle | 3.55 | 13:23 | 8.99 | 8.23 | 30.19 | 26.65 | 2.62 | 2.9 |
| WSR04 | 20210429 | Sunny | Moderate | Mid-Ebb | Middle | 3.55 | 13:23 | 8.97 | 8.25 | 30.42 | 26.48 | 2.28 | 3.1 |
| WSR04 | 20210429 | Sunny | Moderate | Mid-Ebb | Bottom | 6.10 | 13:22 | 8.98 | 8.33 | 30.53 | 26.65 | 1.94 | 3.3 |
| WSR04 | 20210429 | Sunny | Moderate | Mid-Ebb | Bottom | 6.10 | 13:22 | 9.23 | 8.21 | 30.17 | 26.78 | 2.16 | 4.4 |
| WSR16 | 20210401 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 13:38 | 8.05 | 8.33 | 31.46 | 27.69 | 2.63 | 2.5 |
| WSR16 | 20210401 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 13:38 | 8.35 | 8.22 | 31.57 | 27.79 | 2.84 | 2.9 |
| WSR16 | 20210401 | Sunny | Moderate | Mid-Ebb | Middle | 7.85 | 13:37 | 8.26 | 8.11 | 31.74 | 27.86 | 2.01 | 2.5 |
| WSR16 | 20210401 | Sunny | Moderate | Mid-Ebb | Middle | 7.85 | 13:37 | 8.63 | 8.20 | 31.60 | 27.67 | 2.19 | 2.5 |
| WSR16 | 20210401 | Sunny | Moderate | Mid-Ebb | Bottom | 14.70 | 13:36 | 8.82 | 8.35 | 31.45 | 27.91 | 2.14 | 3.6 |
| WSR16 | 20210401 | Sunny | Moderate | Mid-Ebb | Bottom | 14.70 | 13:36 | 8.45 | 8.14 | 31.42 | 27.83 | 2.36 | 2.5 |
| WSR16 | 20210403 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 15:20 | 8.50 | 7.97 | 28.93 | 27.45 | 2.83 | 7.2 |
| WSR16 | 20210403 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 15:20 | 8.47 | 8.28 | 28.93 | 27.37 | 3.24 | 3.6 |
| WSR16 | 20210403 | Sunny | Moderate | Mid-Ebb | Middle | 7.85 | 15:19 | 8.28 | 8.23 | 29.04 | 27.19 | 2.83 | 3.0 |
| WSR16 | 20210403 | Sunny | Moderate | Mid-Ebb | Middle | 7.85 | 15:19 | 8.28 | 8.21 | 29.19 | 27.33 | 3.02 | 3.5 |
| WSR16 | 20210403 | Sunny | Moderate | Mid-Ebb | Bottom | 14.70 | 15:18 | 8.25 | 8.27 | 29.00 | 27.56 | 2.60 | 3.9 |
| WSR16 | 20210403 | Sunny | Moderate | Mid-Ebb | Bottom | 14.70 | 15:18 | 8.61 | 8.22 | 29.42 | 27.44 | 2.97 | 5.8 |
| WSR16 | 20210406 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 15:52 | 8.25 | 8.26 | 29.85 | 23.27 | 3.30 | 2.5 |
| WSR16 | 20210406 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 15:52 | 8.84 | 8.26 | 29.85 | 23.46 | 2.87 | 3.8 |
| WSR16 | 20210406 | Cloudy | Moderate | Mid-Ebb | Middle | 8.40 | 15:51 | 8.25 | 8.33 | 29.69 | 23.27 | 2.51 | 4.5 |
| WSR16 | 20210406 | Cloudy | Moderate | Mid-Ebb | Middle | 8.40 | 15:51 | 8.38 | 8.17 | 29.80 | 23.46 | 2.44 | 2.6 |
| WSR16 | 20210406 | Cloudy | Moderate | Mid-Ebb | Bottom | 15.80 | 15:50 | 8.85 | 8.25 | 29.86 | 23.46 | 2.60 | 2.5 |
| WSR16 | 20210406 | Cloudy | Moderate | Mid-Ebb | Bottom | 15.80 | 15:50 | 8.28 | 8.28 | 29.88 | 23.26 | 2.75 | 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) (Note 2) |
|----------|--------------------|---------|------------------|---------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR16 | 20210408 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 9:09 | 9.33 | 8.48 | 30.33 | 23.53 | 3.23 | 2.5 |
| WSR16 | 20210408 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 9:09 | 8.76 | 8.44 | 30.38 | 23.57 | 2.89 | 2.5 |
| WSR16 | 20210408 | Cloudy | Moderate | Mid-Ebb | Middle | 7.95 | 9:08 | 9.37 | 8.23 | 30.04 | 23.41 | 2.81 | 2.5 |
| WSR16 | 20210408 | Cloudy | Moderate | Mid-Ebb | Middle | 7.95 | 9:08 | 9.10 | 8.24 | 29.97 | 23.45 | 2.56 | 2.5 |
| WSR16 | 20210408 | Cloudy | Moderate | Mid-Ebb | Bottom | 14.90 | 9:07 | 9.31 | 8.28 | 30.02 | 23.40 | 2.53 | 2.5 |
| WSR16 | 20210408 | Cloudy | Moderate | Mid-Ebb | Bottom | 14.90 | 9:07 | 8.81 | 8.49 | 30.12 | 23.55 | 2.66 | 2.5 |
| WSR16 | 20210410 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 10:05 | 8.97 | 8.35 | 31.45 | 23.59 | 2.59 | 2.5 |
| WSR16 | 20210410 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 10:05 | 8.84 | 8.34 | 31.90 | 23.52 | 2.84 | 2.5 |
| WSR16 | 20210410 | Cloudy | Moderate | Mid-Ebb | Middle | 8.15 | 10:04 | 8.83 | 8.29 | 31.72 | 23.65 | 2.68 | 2.7 |
| WSR16 | 20210410 | Cloudy | Moderate | Mid-Ebb | Middle | 8.15 | 10:04 | 9.24 | 8.27 | 31.50 | 23.76 | 3.01 | 2.8 |
| WSR16 | 20210410 | Cloudy | Moderate | Mid-Ebb | Bottom | 15.30 | 10:03 | 8.73 | 8.44 | 31.88 | 23.82 | 2.23 | 2.5 |
| WSR16 | 20210410 | Cloudy | Moderate | Mid-Ebb | Bottom | 15.30 | 10:03 | 8.72 | 8.17 | 31.74 | 23.57 | 2.46 | 2.5 |
| WSR16 | 20210413 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 11:55 | 9.70 | 8.41 | 30.27 | 28.31 | 2.34 | 2.5 |
| WSR16 | 20210413 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 11:55 | 9.05 | 8.26 | 30.60 | 28.30 | 2.17 | 2.5 |
| WSR16 | 20210413 | Sunny | Moderate | Mid-Ebb | Middle | 8.25 | 11:54 | 9.36 | 8.44 | 30.69 | 28.43 | 2.62 | 2.5 |
| WSR16 | 20210413 | Sunny | Moderate | Mid-Ebb | Middle | 8.25 | 11:54 | 8.70 | 8.33 | 30.85 | 28.52 | 2.61 | 2.5 |
| WSR16 | 20210413 | Sunny | Moderate | Mid-Ebb | Bottom | 15.50 | 11:53 | 8.75 | 8.30 | 30.69 | 28.34 | 1.82 | 3.1 |
| WSR16 | 20210413 | Sunny | Moderate | Mid-Ebb | Bottom | 15.50 | 11:53 | 8.96 | 8.46 | 31.27 | 28.47 | 1.58 | 2.5 |
| WSR16 | 20210415 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 12:42 | 8.45 | 8.45 | 31.64 | 23.17 | 2.13 | 2.8 |
| WSR16 | 20210415 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 12:42 | 9.65 | 8.47 | 32.09 | 23.06 | 2.16 | 3.7 |
| WSR16 | 20210415 | Cloudy | Moderate | Mid-Ebb | Middle | 8.10 | 12:41 | 9.35 | 8.22 | 31.43 | 23.16 | 1.98 | 3.7 |
| WSR16 | 20210415 | Cloudy | Moderate | Mid-Ebb | Middle | 8.10 | 12:41 | 8.99 | 8.46 | 31.25 | 23.31 | 2.23 | 2.9 |
| WSR16 | 20210415 | Cloudy | Moderate | Mid-Ebb | Bottom | 15.20 | 12:40 | 8.57 | 8.30 | 31.74 | 23.30 | 2.23 | 2.5 |
| WSR16 | 20210415 | Cloudy | Moderate | Mid-Ebb | Bottom | 15.20 | 12:40 | 8.10 | 8.24 | 31.94 | 23.06 | 2.02 | 2.6 |
| WSR16 | 20210417 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 13:11 | 9.93 | 8.64 | 31.47 | 23.17 | 2.49 | 3.4 |
| WSR16 | 20210417 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 13:11 | 8.30 | 8.45 | 32.02 | 23.22 | 2.78 | 4.2 |
| WSR16 | 20210417 | Cloudy | Moderate | Mid-Ebb | Middle | 8.45 | 13:10 | 9.15 | 8.63 | 31.38 | 23.27 | 2.43 | 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) (Note 2) |
|----------|--------------------|---------|------------------|---------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR16 | 20210417 | Cloudy | Moderate | Mid-Ebb | Middle | 8.45 | 13:10 | 9.04 | 8.68 | 32.42 | 23.07 | 2.48 | 3.4 |
| WSR16 | 20210417 | Cloudy | Moderate | Mid-Ebb | Bottom | 15.90 | 13:09 | 9.70 | 8.52 | 32.13 | 23.21 | 2.22 | 2.5 |
| WSR16 | 20210417 | Cloudy | Moderate | Mid-Ebb | Bottom | 15.90 | 13:09 | 9.14 | 8.55 | 32.30 | 23.07 | 1.95 | 3.2 |
| WSR16 | 20210420 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 15:55 | 7.68 | 8.39 | 26.94 | 24.14 | 3.25 | 3.0 |
| WSR16 | 20210420 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 15:55 | 7.61 | 8.48 | 27.87 | 24.26 | 2.87 | 4.5 |
| WSR16 | 20210420 | Cloudy | Moderate | Mid-Ebb | Middle | 7.80 | 15:54 | 7.80 | 8.49 | 27.25 | 23.95 | 2.70 | 4.2 |
| WSR16 | 20210420 | Cloudy | Moderate | Mid-Ebb | Middle | 7.80 | 15:54 | 8.31 | 8.34 | 27.44 | 24.12 | 2.63 | 5.3 |
| WSR16 | 20210420 | Cloudy | Moderate | Mid-Ebb | Bottom | 14.60 | 15:53 | 7.77 | 8.25 | 27.39 | 24.17 | 2.36 | 4.3 |
| WSR16 | 20210420 | Cloudy | Moderate | Mid-Ebb | Bottom | 14.60 | 15:53 | 8.10 | 8.45 | 27.75 | 24.18 | 2.75 | 5.7 |
| WSR16 | 20210422 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 16:27 | 8.03 | 8.21 | 30.93 | 28.98 | 2.65 | 3.1 |
| WSR16 | 20210422 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 16:27 | 8.47 | 8.15 | 30.35 | 28.80 | 2.46 | 2.5 |
| WSR16 | 20210422 | Sunny | Moderate | Mid-Ebb | Middle | 7.65 | 16:26 | 9.15 | 8.15 | 30.34 | 28.74 | 2.26 | 4.5 |
| WSR16 | 20210422 | Sunny | Moderate | Mid-Ebb | Middle | 7.65 | 16:26 | 8.14 | 8.17 | 31.08 | 28.98 | 2.02 | 3.2 |
| WSR16 | 20210422 | Sunny | Moderate | Mid-Ebb | Bottom | 14.30 | 16:25 | 8.15 | 8.16 | 30.35 | 28.87 | 2.58 | 2.8 |
| WSR16 | 20210422 | Sunny | Moderate | Mid-Ebb | Bottom | 14.30 | 16:25 | 8.53 | 8.21 | 30.97 | 28.76 | 2.32 | 2.5 |
| WSR16 | 20210424 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 8:59 | 9.41 | 8.26 | 31.11 | 23.66 | 2.40 | 3.4 |
| WSR16 | 20210424 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 8:59 | 8.92 | 8.25 | 31.32 | 23.63 | 2.42 | 3.4 |
| WSR16 | 20210424 | Cloudy | Moderate | Mid-Ebb | Middle | 8.00 | 8:58 | 9.15 | 8.36 | 31.31 | 23.71 | 2.22 | 2.5 |
| WSR16 | 20210424 | Cloudy | Moderate | Mid-Ebb | Middle | 8.00 | 8:58 | 9.40 | 8.13 | 31.14 | 23.69 | 2.00 | 2.6 |
| WSR16 | 20210424 | Cloudy | Moderate | Mid-Ebb | Bottom | 15.00 | 8:57 | 8.88 | 8.20 | 31.05 | 23.69 | 2.22 | 3.0 |
| WSR16 | 20210424 | Cloudy | Moderate | Mid-Ebb | Bottom | 15.00 | 8:57 | 8.73 | 8.14 | 30.84 | 23.70 | 2.33 | 4.1 |
| WSR16 | 20210427 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 10:50 | 8.72 | 8.32 | 31.41 | 23.32 | 2.59 | 3.9 |
| WSR16 | 20210427 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 10:50 | 10.05 | 8.43 | 30.97 | 23.54 | 2.80 | 4.3 |
| WSR16 | 20210427 | Cloudy | Moderate | Mid-Ebb | Middle | 8.25 | 10:49 | 9.86 | 8.21 | 30.83 | 23.51 | 2.54 | 4.4 |
| WSR16 | 20210427 | Cloudy | Moderate | Mid-Ebb | Middle | 8.25 | 10:49 | 8.80 | 8.47 | 31.11 | 23.67 | 2.29 | 3.3 |
| WSR16 | 20210427 | Cloudy | Moderate | Mid-Ebb | Bottom | 15.50 | 10:48 | 10.04 | 8.44 | 31.32 | 23.49 | 1.83 | 4.3 |
| WSR16 | 20210427 | Cloudy | Moderate | Mid-Ebb | Bottom | 15.50 | 10:48 | 9.29 | 8.36 | 31.66 | 23.42 | 1.92 | 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) (Note 2) |
|----------|--------------------|---------|------------------|---------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR16 | 20210429 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 12:16 | 8.87 | 8.24 | 30.12 | 26.42 | 2.86 | 4.5 |
| WSR16 | 20210429 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 12:16 | 9.19 | 8.20 | 30.51 | 26.45 | 2.60 | 3.4 |
| WSR16 | 20210429 | Sunny | Moderate | Mid-Ebb | Middle | 8.30 | 12:15 | 8.88 | 8.29 | 30.43 | 26.30 | 1.86 | 3.1 |
| WSR16 | 20210429 | Sunny | Moderate | Mid-Ebb | Middle | 8.30 | 12:15 | 9.12 | 8.31 | 30.45 | 26.44 | 2.08 | 3.4 |
| WSR16 | 20210429 | Sunny | Moderate | Mid-Ebb | Bottom | 15.60 | 12:14 | 8.68 | 8.33 | 30.16 | 26.39 | 2.37 | 3.7 |
| WSR16 | 20210429 | Sunny | Moderate | Mid-Ebb | Bottom | 15.60 | 12:14 | 8.95 | 8.37 | 30.08 | 26.48 | 2.30 | 3.5 |
| WSR33 | 20210401 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 14:35 | 7.92 | 8.29 | 31.25 | 27.82 | 2.73 | 2.5 |
| WSR33 | 20210401 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 14:35 | 8.59 | 8.28 | 30.95 | 27.76 | 2.34 | 2.5 |
| WSR33 | 20210401 | Sunny | Moderate | Mid-Ebb | Middle | 3.55 | 14:34 | 8.47 | 8.38 | 31.71 | 27.86 | 2.31 | 2.5 |
| WSR33 | 20210401 | Sunny | Moderate | Mid-Ebb | Middle | 3.55 | 14:34 | 8.40 | 8.32 | 31.62 | 27.76 | 2.61 | 2.5 |
| WSR33 | 20210401 | Sunny | Moderate | Mid-Ebb | Bottom | 6.10 | 14:33 | 7.92 | 8.26 | 31.08 | 27.63 | 2.36 | 2.5 |
| WSR33 | 20210401 | Sunny | Moderate | Mid-Ebb | Bottom | 6.10 | 14:33 | 9.43 | 8.16 | 31.74 | 27.54 | 2.79 | 2.5 |
| WSR33 | 20210403 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 16:10 | 8.34 | 7.99 | 29.02 | 27.64 | 3.19 | 5.1 |
| WSR33 | 20210403 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 16:10 | 8.30 | 8.15 | 29.29 | 27.36 | 3.25 | 4.8 |
| WSR33 | 20210403 | Sunny | Moderate | Mid-Ebb | Middle | 3.85 | 16:09 | 8.81 | 8.00 | 29.12 | 27.51 | 2.65 | 5.1 |
| WSR33 | 20210403 | Sunny | Moderate | Mid-Ebb | Middle | 3.85 | 16:09 | 8.84 | 8.18 | 29.55 | 27.64 | 2.52 | 3.4 |
| WSR33 | 20210403 | Sunny | Moderate | Mid-Ebb | Bottom | 6.70 | 16:08 | 8.39 | 8.08 | 29.12 | 27.30 | 2.72 | 4.7 |
| WSR33 | 20210403 | Sunny | Moderate | Mid-Ebb | Bottom | 6.70 | 16:08 | 8.38 | 8.11 | 28.92 | 27.31 | 2.89 | 3.9 |
| WSR33 | 20210406 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 16:35 | 8.31 | 8.18 | 29.83 | 23.32 | 2.84 | 4.0 |
| WSR33 | 20210406 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 16:35 | 8.43 | 8.18 | 29.73 | 23.24 | 2.89 | 2.8 |
| WSR33 | 20210406 | Cloudy | Moderate | Mid-Ebb | Middle | 3.85 | 16:34 | 8.56 | 8.35 | 29.87 | 23.30 | 2.75 | 2.7 |
| WSR33 | 20210406 | Cloudy | Moderate | Mid-Ebb | Middle | 3.85 | 16:34 | 8.83 | 8.35 | 29.78 | 23.16 | 2.33 | 2.5 |
| WSR33 | 20210406 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.70 | 16:33 | 8.78 | 8.28 | 29.70 | 23.24 | 2.65 | 2.5 |
| WSR33 | 20210406 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.70 | 16:33 | 8.63 | 8.31 | 29.75 | 23.32 | 2.81 | 3.8 |
| WSR33 | 20210408 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 9:59 | 9.17 | 8.30 | 30.12 | 23.59 | 2.74 | 2.5 |
| WSR33 | 20210408 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 9:59 | 9.36 | 8.36 | 29.95 | 23.58 | 3.19 | 2.5 |
| WSR33 | 20210408 | Cloudy | Moderate | Mid-Ebb | Middle | 3.55 | 9:58 | 9.07 | 8.21 | 30.36 | 23.73 | 2.83 | 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) (Note 2) |
|----------|--------------------|---------|------------------|---------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR33 | 20210408 | Cloudy | Moderate | Mid-Ebb | Middle | 3.55 | 9:58 | 8.90 | 8.50 | 30.32 | 23.44 | 2.88 | 2.5 |
| WSR33 | 20210408 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.10 | 9:57 | 8.79 | 8.30 | 30.13 | 23.61 | 2.51 | 2.5 |
| WSR33 | 20210408 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.10 | 9:57 | 9.08 | 8.22 | 30.08 | 23.47 | 2.52 | 2.5 |
| WSR33 | 20210410 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 10:47 | 9.16 | 8.20 | 31.61 | 23.79 | 2.51 | 2.5 |
| WSR33 | 20210410 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 10:47 | 8.62 | 8.45 | 31.91 | 23.84 | 2.48 | 2.5 |
| WSR33 | 20210410 | Cloudy | Moderate | Mid-Ebb | Middle | 3.75 | 10:46 | 8.92 | 8.18 | 31.20 | 23.94 | 2.55 | 2.5 |
| WSR33 | 20210410 | Cloudy | Moderate | Mid-Ebb | Middle | 3.75 | 10:46 | 8.78 | 8.37 | 31.11 | 23.85 | 2.28 | 2.7 |
| WSR33 | 20210410 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.50 | 10:45 | 8.96 | 8.29 | 30.83 | 23.76 | 2.86 | 2.9 |
| WSR33 | 20210410 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.50 | 10:45 | 8.99 | 8.26 | 31.15 | 23.90 | 2.88 | 2.5 |
| WSR33 | 20210413 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 12:46 | 9.75 | 8.51 | 30.90 | 28.66 | 2.47 | 7.3 |
| WSR33 | 20210413 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 12:46 | 8.82 | 8.25 | 30.34 | 28.61 | 2.79 | 12.7 |
| WSR33 | 20210413 | Sunny | Moderate | Mid-Ebb | Middle | 3.80 | 12:45 | 8.74 | 8.24 | 30.92 | 28.50 | 2.46 | 2.5 |
| WSR33 | 20210413 | Sunny | Moderate | Mid-Ebb | Middle | 3.80 | 12:45 | 9.15 | 8.38 | 30.65 | 28.44 | 2.53 | 3.0 |
| WSR33 | 20210413 | Sunny | Moderate | Mid-Ebb | Bottom | 6.60 | 12:44 | 9.60 | 8.25 | 30.89 | 28.47 | 1.89 | 3.3 |
| WSR33 | 20210413 | Sunny | Moderate | Mid-Ebb | Bottom | 6.60 | 12:44 | 9.12 | 8.24 | 30.89 | 28.68 | 2.04 | 4.3 |
| WSR33 | 20210415 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 13:39 | 8.60 | 8.29 | 31.42 | 23.30 | 2.08 | 7.5 |
| WSR33 | 20210415 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 13:39 | 8.27 | 8.27 | 31.91 | 23.31 | 2.45 | 4.7 |
| WSR33 | 20210415 | Cloudy | Moderate | Mid-Ebb | Middle | 3.75 | 13:38 | 7.77 | 8.42 | 32.20 | 23.41 | 2.11 | 3.9 |
| WSR33 | 20210415 | Cloudy | Moderate | Mid-Ebb | Middle | 3.75 | 13:38 | 9.58 | 8.24 | 31.78 | 23.33 | 2.21 | 4.8 |
| WSR33 | 20210415 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.50 | 13:37 | 9.09 | 8.39 | 31.41 | 23.29 | 1.89 | 4 |
| WSR33 | 20210415 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.50 | 13:37 | 8.68 | 8.37 | 31.34 | 23.30 | 1.72 | 4.2 |
| WSR33 | 20210417 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 14:08 | 9.39 | 8.64 | 32.41 | 23.29 | 2.60 | 3.0 |
| WSR33 | 20210417 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 14:08 | 9.90 | 8.49 | 32.36 | 23.30 | 2.98 | 2.5 |
| WSR33 | 20210417 | Cloudy | Moderate | Mid-Ebb | Middle | 3.50 | 14:07 | 8.95 | 8.50 | 32.35 | 23.27 | 2.48 | 2.5 |
| WSR33 | 20210417 | Cloudy | Moderate | Mid-Ebb | Middle | 3.50 | 14:07 | 8.98 | 8.66 | 31.44 | 23.21 | 2.58 | 2.5 |
| WSR33 | 20210417 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.00 | 14:06 | 8.79 | 8.65 | 31.48 | 23.20 | 2.53 | 2.5 |
| WSR33 | 20210417 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.00 | 14:06 | 9.39 | 8.53 | 32.38 | 23.34 | 2.30 | 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) (Note 2) |
|----------|--------------------|---------|------------------|---------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR33 | 20210420 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 16:50 | 7.65 | 8.25 | 27.91 | 23.97 | 2.54 | 4.2 |
| WSR33 | 20210420 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 16:50 | 7.87 | 8.33 | 27.94 | 24.21 | 2.75 | 5.1 |
| WSR33 | 20210420 | Cloudy | Moderate | Mid-Ebb | Middle | 3.70 | 16:49 | 7.62 | 8.31 | 27.53 | 23.90 | 3.13 | 5.6 |
| WSR33 | 20210420 | Cloudy | Moderate | Mid-Ebb | Middle | 3.70 | 16:49 | 7.99 | 8.49 | 27.48 | 24.06 | 3.11 | 2.5 |
| WSR33 | 20210420 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.40 | 16:48 | 7.86 | 8.27 | 27.68 | 24.19 | 2.63 | 3.4 |
| WSR33 | 20210420 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.40 | 16:48 | 7.80 | 8.36 | 26.96 | 24.04 | 2.97 | 2.8 |
| WSR33 | 20210422 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 17:24 | 8.96 | 8.16 | 30.61 | 28.73 | 2.56 | 3.3 |
| WSR33 | 20210422 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 17:24 | 8.51 | 8.19 | 30.60 | 28.87 | 2.78 | 2.8 |
| WSR33 | 20210422 | Sunny | Moderate | Mid-Ebb | Middle | 3.70 | 17:23 | 8.15 | 8.31 | 30.89 | 28.74 | 2.09 | 4.3 |
| WSR33 | 20210422 | Sunny | Moderate | Mid-Ebb | Middle | 3.70 | 17:23 | 8.11 | 8.28 | 30.27 | 28.87 | 2.40 | 2.8 |
| WSR33 | 20210422 | Sunny | Moderate | Mid-Ebb | Bottom | 6.40 | 17:22 | 8.77 | 8.16 | 30.75 | 28.82 | 1.89 | 3.1 |
| WSR33 | 20210422 | Sunny | Moderate | Mid-Ebb | Bottom | 6.40 | 17:22 | 8.65 | 8.29 | 30.53 | 28.88 | 1.58 | 3.4 |
| WSR33 | 20210424 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 9:56 | 8.88 | 8.34 | 30.83 | 23.87 | 2.60 | 2.8 |
| WSR33 | 20210424 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 9:56 | 8.62 | 8.15 | 30.85 | 23.67 | 2.78 | 3.4 |
| WSR33 | 20210424 | Cloudy | Moderate | Mid-Ebb | Middle | 3.80 | 9:55 | 9.44 | 8.09 | 30.93 | 23.86 | 2.61 | 3.5 |
| WSR33 | 20210424 | Cloudy | Moderate | Mid-Ebb | Middle | 3.80 | 9:55 | 8.76 | 8.08 | 31.22 | 23.70 | 2.37 | 2.5 |
| WSR33 | 20210424 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.60 | 9:54 | 9.31 | 8.32 | 30.74 | 23.73 | 1.85 | 2.5 |
| WSR33 | 20210424 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.60 | 9:54 | 9.29 | 8.14 | 31.27 | 23.79 | 2.17 | 2.5 |
| WSR33 | 20210427 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 11:47 | 9.15 | 8.51 | 31.16 | 23.83 | 2.90 | 3.4 |
| WSR33 | 20210427 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 11:47 | 9.15 | 8.42 | 30.93 | 23.86 | 2.55 | 4.4 |
| WSR33 | 20210427 | Cloudy | Moderate | Mid-Ebb | Middle | 3.70 | 11:46 | 8.66 | 8.38 | 31.09 | 23.57 | 1.84 | 3.2 |
| WSR33 | 20210427 | Cloudy | Moderate | Mid-Ebb | Middle | 3.70 | 11:46 | 10.17 | 8.27 | 30.40 | 23.80 | 2.15 | 5.2 |
| WSR33 | 20210427 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.40 | 11:45 | 8.74 | 8.48 | 30.30 | 23.57 | 1.56 | 3.2 |
| WSR33 | 20210427 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.40 | 11:45 | 10.12 | 8.25 | 30.75 | 23.69 | 1.69 | 4.4 |
| WSR33 | 20210429 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 13:11 | 8.81 | 8.37 | 30.63 | 26.46 | 2.85 | 3.9 |
| WSR33 | 20210429 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 13:11 | 9.17 | 8.22 | 30.21 | 26.54 | 2.78 | 4.9 |
| WSR33 | 20210429 | Sunny | Moderate | Mid-Ebb | Middle | 3.50 | 13:10 | 8.59 | 8.19 | 30.42 | 26.42 | 2.53 | 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) (Note 2) |
|----------|--------------------|---------|------------------|---------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR33 | 20210429 | Sunny | Moderate | Mid-Ebb | Middle | 3.50 | 13:10 | 8.99 | 8.27 | 30.61 | 26.42 | 2.26 | 3.0 |
| WSR33 | 20210429 | Sunny | Moderate | Mid-Ebb | Bottom | 6.00 | 13:09 | 8.72 | 8.33 | 30.36 | 26.60 | 1.63 | 3.0 |
| WSR33 | 20210429 | Sunny | Moderate | Mid-Ebb | Bottom | 6.00 | 13:09 | 9.19 | 8.37 | 30.63 | 26.45 | 1.85 | 2.7 |
| WSR36 | 20210401 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 14:18 | 9.50 | 8.11 | 31.97 | 27.60 | 2.77 | 2.5 |
| WSR36 | 20210401 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 14:18 | 8.27 | 8.28 | 31.16 | 27.77 | 2.64 | 2.5 |
| WSR36 | 20210401 | Sunny | Moderate | Mid-Ebb | Middle | 3.80 | 14:18 | 7.99 | 8.27 | 31.82 | 27.90 | 2.04 | 2.5 |
| WSR36 | 20210401 | Sunny | Moderate | Mid-Ebb | Middle | 3.80 | 14:18 | 7.96 | 8.18 | 31.60 | 27.84 | 2.26 | 2.5 |
| WSR36 | 20210401 | Sunny | Moderate | Mid-Ebb | Bottom | 6.60 | 14:17 | 8.59 | 8.25 | 31.08 | 27.86 | 2.20 | 2.5 |
| WSR36 | 20210401 | Sunny | Moderate | Mid-Ebb | Bottom | 6.60 | 14:17 | 8.50 | 8.37 | 31.78 | 27.75 | 2.32 | 2.5 |
| WSR36 | 20210403 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 15:55 | 8.41 | 8.13 | 29.51 | 27.36 | 3.09 | 4.8 |
| WSR36 | 20210403 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 15:55 | 8.09 | 8.08 | 29.12 | 27.53 | 3.07 | 5.1 |
| WSR36 | 20210403 | Sunny | Moderate | Mid-Ebb | Middle | 3.15 | 15:55 | 8.17 | 8.18 | 29.07 | 27.34 | 2.88 | 3.6 |
| WSR36 | 20210403 | Sunny | Moderate | Mid-Ebb | Middle | 3.15 | 15:55 | 8.17 | 8.29 | 29.51 | 27.36 | 2.56 | 3.8 |
| WSR36 | 20210403 | Sunny | Moderate | Mid-Ebb | Bottom | 5.30 | 15:54 | 8.52 | 8.21 | 29.50 | 27.62 | 2.65 | 2.8 |
| WSR36 | 20210403 | Sunny | Moderate | Mid-Ebb | Bottom | 5.30 | 15:54 | 8.12 | 8.19 | 29.06 | 27.33 | 2.86 | 3.0 |
| WSR36 | 20210406 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 16:22 | 8.50 | 8.27 | 29.67 | 23.25 | 3.16 | 2.5 |
| WSR36 | 20210406 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 16:22 | 8.66 | 8.22 | 29.68 | 23.22 | 3.18 | 2.8 |
| WSR36 | 20210406 | Cloudy | Moderate | Mid-Ebb | Middle | 3.40 | 16:22 | 8.54 | 8.21 | 29.60 | 23.24 | 2.76 | 2.5 |
| WSR36 | 20210406 | Cloudy | Moderate | Mid-Ebb | Middle | 3.40 | 16:22 | 8.61 | 8.20 | 29.78 | 23.24 | 2.39 | 3.8 |
| WSR36 | 20210406 | Cloudy | Moderate | Mid-Ebb | Bottom | 5.80 | 16:21 | 8.85 | 8.31 | 29.67 | 23.36 | 2.55 | 4.3 |
| WSR36 | 20210406 | Cloudy | Moderate | Mid-Ebb | Bottom | 5.80 | 16:21 | 8.39 | 8.35 | 29.64 | 23.21 | 2.43 | 4.0 |
| WSR36 | 20210408 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 9:44 | 8.62 | 8.36 | 30.51 | 23.46 | 2.52 | 2.5 |
| WSR36 | 20210408 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 9:44 | 9.33 | 8.30 | 30.63 | 23.64 | 2.87 | 2.5 |
| WSR36 | 20210408 | Cloudy | Moderate | Mid-Ebb | Middle | 3.05 | 9:44 | 8.82 | 8.43 | 29.89 | 23.38 | 2.19 | 2.5 |
| WSR36 | 20210408 | Cloudy | Moderate | Mid-Ebb | Middle | 3.05 | 9:44 | 9.00 | 8.29 | 29.98 | 23.49 | 2.00 | 2.5 |
| WSR36 | 20210408 | Cloudy | Moderate | Mid-Ebb | Bottom | 5.10 | 9:43 | 8.89 | 8.48 | 30.50 | 23.70 | 2.24 | 2.9 |
| WSR36 | 20210408 | Cloudy | Moderate | Mid-Ebb | Bottom | 5.10 | 9:43 | 8.65 | 8.42 | 30.05 | 23.64 | 2.21 | 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) (Note 2) |
|----------|--------------------|---------|------------------|---------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR36 | 20210410 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 10:34 | 8.87 | 8.21 | 31.38 | 23.86 | 2.71 | 2.5 |
| WSR36 | 20210410 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 10:34 | 8.62 | 8.44 | 30.77 | 23.54 | 2.51 | 2.5 |
| WSR36 | 20210410 | Cloudy | Moderate | Mid-Ebb | Middle | 3.05 | 10:34 | 9.30 | 8.15 | 31.77 | 23.77 | 2.92 | 2.5 |
| WSR36 | 20210410 | Cloudy | Moderate | Mid-Ebb | Middle | 3.05 | 10:34 | 8.87 | 8.22 | 30.90 | 23.67 | 2.84 | 2.5 |
| WSR36 | 20210410 | Cloudy | Moderate | Mid-Ebb | Bottom | 5.10 | 10:33 | 8.78 | 8.41 | 30.81 | 23.77 | 2.38 | 2.5 |
| WSR36 | 20210410 | Cloudy | Moderate | Mid-Ebb | Bottom | 5.10 | 10:33 | 8.68 | 8.37 | 31.24 | 23.70 | 2.09 | 2.5 |
| WSR36 | 20210413 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 12:31 | 9.54 | 8.38 | 31.47 | 28.55 | 2.83 | 2.8 |
| WSR36 | 20210413 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 12:31 | 9.19 | 8.34 | 30.30 | 28.42 | 2.59 | 3.9 |
| WSR36 | 20210413 | Sunny | Moderate | Mid-Ebb | Middle | 3.35 | 12:31 | 9.49 | 8.39 | 31.45 | 28.37 | 1.98 | 2.5 |
| WSR36 | 20210413 | Sunny | Moderate | Mid-Ebb | Middle | 3.35 | 12:31 | 9.61 | 8.39 | 30.97 | 28.46 | 1.82 | 3.0 |
| WSR36 | 20210413 | Sunny | Moderate | Mid-Ebb | Bottom | 5.70 | 12:30 | 9.41 | 8.25 | 30.16 | 28.65 | 1.36 | 3.3 |
| WSR36 | 20210413 | Sunny | Moderate | Mid-Ebb | Bottom | 5.70 | 12:30 | 9.35 | 8.29 | 30.45 | 28.60 | 1.59 | 3.2 |
| WSR36 | 20210415 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 13:22 | 8.75 | 8.26 | 31.29 | 23.19 | 2.18 | 4.4 |
| WSR36 | 20210415 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 13:22 | 7.92 | 8.28 | 31.13 | 23.29 | 2.57 | 2.7 |
| WSR36 | 20210415 | Cloudy | Moderate | Mid-Ebb | Middle | 3.70 | 13:22 | 8.54 | 8.47 | 32.29 | 23.31 | 2.45 | 2.6 |
| WSR36 | 20210415 | Cloudy | Moderate | Mid-Ebb | Middle | 3.70 | 13:22 | 9.16 | 8.40 | 32.24 | 23.25 | 2.15 | 2.5 |
| WSR36 | 20210415 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.40 | 13:21 | 9.48 | 8.41 | 31.60 | 23.34 | 2.27 | 4.2 |
| WSR36 | 20210415 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.40 | 13:21 | 7.87 | 8.32 | 31.74 | 23.26 | 2.07 | 3.6 |
| WSR36 | 20210417 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 13:51 | 9.13 | 8.52 | 32.10 | 23.13 | 2.07 | 4.6 |
| WSR36 | 20210417 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 13:51 | 9.40 | 8.48 | 31.25 | 23.10 | 2.35 | 3.8 |
| WSR36 | 20210417 | Cloudy | Moderate | Mid-Ebb | Middle | 3.65 | 13:51 | 8.79 | 8.67 | 32.12 | 23.14 | 2.43 | 6.0 |
| WSR36 | 20210417 | Cloudy | Moderate | Mid-Ebb | Middle | 3.65 | 13:51 | 9.69 | 8.67 | 31.70 | 23.19 | 2.74 | 2.5 |
| WSR36 | 20210417 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.30 | 13:50 | 8.44 | 8.55 | 31.62 | 23.18 | 1.90 | 2.7 |
| WSR36 | 20210417 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.30 | 13:50 | 8.03 | 8.70 | 32.00 | 23.23 | 1.79 | 2.5 |
| WSR36 | 20210420 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 16:33 | 7.50 | 8.42 | 27.85 | 24.04 | 3.13 | 3.7 |
| WSR36 | 20210420 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 16:33 | 7.66 | 8.29 | 27.71 | 23.99 | 3.55 | 2.5 |
| WSR36 | 20210420 | Cloudy | Moderate | Mid-Ebb | Middle | 3.20 | 16:33 | 7.91 | 8.44 | 26.85 | 24.18 | 2.83 | 3.8 |

| 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) (Note 2) |
|----------|--------------------|---------|------------------|---------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR36 | 20210420 | Cloudy | Moderate | Mid-Ebb | Middle | 3.20 | 16:33 | 8.07 | 8.24 | 27.54 | 23.96 | 3.24 | 3.0 |
| WSR36 | 20210420 | Cloudy | Moderate | Mid-Ebb | Bottom | 5.40 | 16:32 | 7.60 | 8.31 | 26.74 | 24.09 | 3.04 | 4.2 |
| WSR36 | 20210420 | Cloudy | Moderate | Mid-Ebb | Bottom | 5.40 | 16:32 | 7.88 | 8.44 | 27.88 | 24.17 | 2.66 | 3.5 |
| WSR36 | 20210422 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 17:07 | 8.34 | 8.27 | 30.23 | 28.80 | 2.72 | 2.5 |
| WSR36 | 20210422 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 17:07 | 9.12 | 8.15 | 30.67 | 28.87 | 2.41 | 5.0 |
| WSR36 | 20210422 | Sunny | Moderate | Mid-Ebb | Middle | 3.35 | 17:07 | 9.21 | 8.22 | 30.84 | 28.69 | 2.29 | 3.4 |
| WSR36 | 20210422 | Sunny | Moderate | Mid-Ebb | Middle | 3.35 | 17:07 | 8.98 | 8.13 | 30.46 | 28.63 | 2.62 | 4.4 |
| WSR36 | 20210422 | Sunny | Moderate | Mid-Ebb | Bottom | 5.70 | 17:06 | 8.10 | 8.29 | 30.49 | 28.62 | 1.96 | 3.3 |
| WSR36 | 20210422 | Sunny | Moderate | Mid-Ebb | Bottom | 5.70 | 17:06 | 8.54 | 8.21 | 30.23 | 28.76 | 2.29 | 2.9 |
| WSR36 | 20210424 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 9:39 | 9.04 | 8.17 | 30.85 | 23.65 | 2.61 | 2.9 |
| WSR36 | 20210424 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 9:39 | 8.62 | 8.13 | 31.22 | 23.56 | 2.33 | 3.6 |
| WSR36 | 20210424 | Cloudy | Moderate | Mid-Ebb | Middle | 3.80 | 9:39 | 8.91 | 8.26 | 30.95 | 23.72 | 2.10 | 2.5 |
| WSR36 | 20210424 | Cloudy | Moderate | Mid-Ebb | Middle | 3.80 | 9:39 | 9.49 | 8.15 | 31.18 | 23.55 | 1.91 | 3.7 |
| WSR36 | 20210424 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.60 | 9:38 | 8.76 | 8.12 | 31.12 | 23.56 | 2.15 | 4.1 |
| WSR36 | 20210424 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.60 | 9:38 | 9.47 | 8.11 | 31.26 | 23.53 | 2.26 | 3.0 |
| WSR36 | 20210427 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 11:32 | 10.19 | 8.31 | 31.38 | 23.56 | 2.45 | 3.9 |
| WSR36 | 20210427 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 11:32 | 8.66 | 8.30 | 30.64 | 23.72 | 2.29 | 3.7 |
| WSR36 | 20210427 | Cloudy | Moderate | Mid-Ebb | Middle | 3.75 | 11:32 | 9.11 | 8.27 | 31.50 | 23.50 | 2.46 | 4.9 |
| WSR36 | 20210427 | Cloudy | Moderate | Mid-Ebb | Middle | 3.75 | 11:32 | 10.16 | 8.32 | 31.36 | 23.52 | 2.38 | 3.9 |
| WSR36 | 20210427 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.50 | 11:31 | 8.65 | 8.50 | 31.56 | 23.73 | 1.71 | 3.1 |
| WSR36 | 20210427 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.50 | 11:31 | 8.60 | 8.44 | 30.46 | 23.63 | 1.94 | 3.8 |
| WSR36 | 20210429 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 12:54 | 8.69 | 8.33 | 30.44 | 26.50 | 2.53 | 3.2 |
| WSR36 | 20210429 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 12:54 | 9.15 | 8.24 | 30.13 | 26.49 | 2.76 | 2.9 |
| WSR36 | 20210429 | Sunny | Moderate | Mid-Ebb | Middle | 3.30 | 12:54 | 9.09 | 8.16 | 30.76 | 26.61 | 2.51 | 3.1 |
| WSR36 | 20210429 | Sunny | Moderate | Mid-Ebb | Middle | 3.30 | 12:54 | 8.79 | 8.18 | 30.43 | 26.48 | 2.52 | 3.3 |
| WSR36 | 20210429 | Sunny | Moderate | Mid-Ebb | Bottom | 5.60 | 12:53 | 8.60 | 8.36 | 30.79 | 26.46 | 2.20 | 3.5 |
| WSR36 | 20210429 | Sunny | Moderate | Mid-Ebb | Bottom | 5.60 | 12:53 | 8.99 | 8.14 | 30.12 | 26.55 | 2.15 | 3.0 |

| 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) (Note 2) |
|----------|--------------------|---------|------------------|---------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR37 | 20210401 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 14:02 | 8.42 | 8.23 | 30.85 | 27.87 | 2.13 | 2.5 |
| WSR37 | 20210401 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 14:02 | 9.35 | 8.12 | 31.78 | 27.91 | 2.49 | 2.5 |
| WSR37 | 20210401 | Sunny | Moderate | Mid-Ebb | Middle | 4.05 | 14:01 | 8.93 | 8.24 | 30.79 | 27.88 | 2.05 | 2.5 |
| WSR37 | 20210401 | Sunny | Moderate | Mid-Ebb | Middle | 4.05 | 14:01 | 8.21 | 8.35 | 31.42 | 27.61 | 2.24 | 2.5 |
| WSR37 | 20210401 | Sunny | Moderate | Mid-Ebb | Bottom | 7.10 | 14:00 | 8.03 | 8.30 | 31.62 | 27.57 | 1.89 | 2.5 |
| WSR37 | 20210401 | Sunny | Moderate | Mid-Ebb | Bottom | 7.10 | 14:00 | 8.70 | 8.31 | 31.60 | 27.73 | 1.79 | 2.5 |
| WSR37 | 20210403 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 15:41 | 8.41 | 8.13 | 29.22 | 27.42 | 2.94 | 2.6 |
| WSR37 | 20210403 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 15:41 | 8.51 | 8.10 | 29.23 | 27.43 | 3.19 | 4.7 |
| WSR37 | 20210403 | Sunny | Moderate | Mid-Ebb | Middle | 4.35 | 15:40 | 8.44 | 8.29 | 29.01 | 27.59 | 3.17 | 5.9 |
| WSR37 | 20210403 | Sunny | Moderate | Mid-Ebb | Middle | 4.35 | 15:40 | 8.45 | 8.05 | 29.17 | 27.29 | 2.80 | 4.7 |
| WSR37 | 20210403 | Sunny | Moderate | Mid-Ebb | Bottom | 7.70 | 15:39 | 8.50 | 8.02 | 29.21 | 27.41 | 2.90 | 4.5 |
| WSR37 | 20210403 | Sunny | Moderate | Mid-Ebb | Bottom | 7.70 | 15:39 | 8.17 | 8.14 | 28.81 | 27.48 | 2.65 | 4.1 |
| WSR37 | 20210406 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 16:11 | 8.80 | 8.28 | 29.61 | 23.34 | 2.96 | 3.6 |
| WSR37 | 20210406 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 16:11 | 8.74 | 8.31 | 29.72 | 23.43 | 2.56 | 4.2 |
| WSR37 | 20210406 | Cloudy | Moderate | Mid-Ebb | Middle | 4.10 | 16:10 | 8.77 | 8.36 | 29.92 | 23.28 | 2.59 | 4.0 |
| WSR37 | 20210406 | Cloudy | Moderate | Mid-Ebb | Middle | 4.10 | 16:10 | 8.32 | 8.26 | 29.73 | 23.25 | 3.02 | 4.7 |
| WSR37 | 20210406 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.20 | 16:09 | 8.57 | 8.21 | 29.83 | 23.33 | 2.60 | 2.8 |
| WSR37 | 20210406 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.20 | 16:09 | 8.53 | 8.36 | 29.85 | 23.29 | 2.48 | 2.9 |
| WSR37 | 20210408 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 9:30 | 8.73 | 8.22 | 30.16 | 23.59 | 3.23 | 2.5 |
| WSR37 | 20210408 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 9:30 | 8.69 | 8.49 | 30.48 | 23.38 | 3.02 | 2.5 |
| WSR37 | 20210408 | Cloudy | Moderate | Mid-Ebb | Middle | 4.45 | 9:29 | 9.30 | 8.24 | 29.94 | 23.38 | 2.71 | 2.5 |
| WSR37 | 20210408 | Cloudy | Moderate | Mid-Ebb | Middle | 4.45 | 9:29 | 9.14 | 8.46 | 30.12 | 23.52 | 2.52 | 3.4 |
| WSR37 | 20210408 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.90 | 9:28 | 9.39 | 8.48 | 30.62 | 23.48 | 2.65 | 2.6 |
| WSR37 | 20210408 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.90 | 9:28 | 9.38 | 8.38 | 30.26 | 23.39 | 2.28 | 2.5 |
| WSR37 | 20210410 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 10:22 | 8.75 | 8.31 | 31.73 | 23.83 | 2.95 | 2.5 |
| WSR37 | 20210410 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 10:22 | 8.79 | 8.41 | 31.82 | 23.78 | 3.01 | 2.6 |
| WSR37 | 20210410 | Cloudy | Moderate | Mid-Ebb | Middle | 4.10 | 10:21 | 8.92 | 8.38 | 31.50 | 23.80 | 2.97 | 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) (Note 2) |
|----------|--------------------|---------|------------------|---------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR37 | 20210410 | Cloudy | Moderate | Mid-Ebb | Middle | 4.10 | 10:21 | 8.77 | 8.46 | 31.89 | 23.73 | 2.86 | 2.5 |
| WSR37 | 20210410 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.20 | 10:20 | 8.65 | 8.33 | 31.77 | 23.61 | 2.70 | 2.5 |
| WSR37 | 20210410 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.20 | 10:20 | 8.60 | 8.26 | 31.57 | 23.71 | 2.62 | 2.5 |
| WSR37 | 20210413 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 12:17 | 8.76 | 8.29 | 30.69 | 28.51 | 2.45 | 3.0 |
| WSR37 | 20210413 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 12:17 | 9.13 | 8.44 | 31.43 | 28.73 | 2.80 | 3.2 |
| WSR37 | 20210413 | Sunny | Moderate | Mid-Ebb | Middle | 4.10 | 12:16 | 9.57 | 8.55 | 30.38 | 28.75 | 1.64 | 3.0 |
| WSR37 | 20210413 | Sunny | Moderate | Mid-Ebb | Middle | 4.10 | 12:16 | 9.99 | 8.37 | 30.64 | 28.64 | 1.88 | 3.1 |
| WSR37 | 20210413 | Sunny | Moderate | Mid-Ebb | Bottom | 7.20 | 12:15 | 9.99 | 8.51 | 30.80 | 28.50 | 2.34 | 2.5 |
| WSR37 | 20210413 | Sunny | Moderate | Mid-Ebb | Bottom | 7.20 | 12:15 | 9.19 | 8.41 | 30.98 | 28.73 | 2.16 | 3.3 |
| WSR37 | 20210415 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 13:06 | 8.47 | 8.38 | 31.73 | 23.22 | 2.14 | 2.5 |
| WSR37 | 20210415 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 13:06 | 9.27 | 8.42 | 31.14 | 23.09 | 2.56 | 3.9 |
| WSR37 | 20210415 | Cloudy | Moderate | Mid-Ebb | Middle | 4.10 | 13:05 | 8.44 | 8.24 | 31.80 | 23.19 | 2.35 | 3.2 |
| WSR37 | 20210415 | Cloudy | Moderate | Mid-Ebb | Middle | 4.10 | 13:05 | 8.32 | 8.21 | 31.94 | 23.14 | 2.24 | 4.2 |
| WSR37 | 20210415 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.20 | 13:04 | 8.77 | 8.30 | 31.24 | 23.16 | 1.55 | 4.4 |
| WSR37 | 20210415 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.20 | 13:04 | 8.76 | 8.23 | 32.20 | 23.17 | 1.65 | 3.2 |
| WSR37 | 20210417 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 13:35 | 9.31 | 8.49 | 31.90 | 23.16 | 2.76 | 2.5 |
| WSR37 | 20210417 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 13:35 | 8.06 | 8.67 | 31.73 | 23.21 | 2.82 | 2.5 |
| WSR37 | 20210417 | Cloudy | Moderate | Mid-Ebb | Middle | 4.15 | 13:34 | 8.99 | 8.46 | 31.62 | 23.28 | 2.21 | 2.5 |
| WSR37 | 20210417 | Cloudy | Moderate | Mid-Ebb | Middle | 4.15 | 13:34 | 8.34 | 8.51 | 31.68 | 23.13 | 2.21 | 2.5 |
| WSR37 | 20210417 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.30 | 13:33 | 8.79 | 8.63 | 31.36 | 23.30 | 2.09 | 4.7 |
| WSR37 | 20210417 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.30 | 13:33 | 8.83 | 8.67 | 32.23 | 23.19 | 2.33 | 2.5 |
| WSR37 | 20210420 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 16:19 | 7.50 | 8.29 | 27.53 | 23.89 | 2.99 | 3.3 |
| WSR37 | 20210420 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 16:19 | 8.23 | 8.32 | 27.01 | 24.10 | 3.03 | 3.7 |
| WSR37 | 20210420 | Cloudy | Moderate | Mid-Ebb | Middle | 4.40 | 16:18 | 7.43 | 8.47 | 26.89 | 24.17 | 2.86 | 4.0 |
| WSR37 | 20210420 | Cloudy | Moderate | Mid-Ebb | Middle | 4.40 | 16:18 | 7.47 | 8.38 | 26.86 | 24.17 | 2.56 | 3.5 |
| WSR37 | 20210420 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.80 | 16:17 | 7.67 | 8.35 | 26.92 | 24.05 | 2.52 | 4.4 |
| WSR37 | 20210420 | Cloudy | Moderate | Mid-Ebb | Bottom | 7.80 | 16:17 | 7.98 | 8.32 | 27.45 | 24.18 | 2.87 | 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) (Note 2) |
|----------|--------------------|---------|------------------|---------|----------------|-----------|-----------------|-----------|------|-----------|-----------|-----------------------------|-----------------------|
| WSR37 | 20210422 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 16:51 | 8.89 | 8.11 | 31.02 | 29.00 | 2.80 | 4.1 |
| WSR37 | 20210422 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 16:51 | 9.15 | 8.30 | 30.56 | 28.88 | 2.86 | 3.1 |
| WSR37 | 20210422 | Sunny | Moderate | Mid-Ebb | Middle | 4.45 | 16:50 | 8.79 | 8.23 | 31.03 | 28.78 | 2.49 | 3.1 |
| WSR37 | 20210422 | Sunny | Moderate | Mid-Ebb | Middle | 4.45 | 16:50 | 8.34 | 8.24 | 30.23 | 28.95 | 2.52 | 4.0 |
| WSR37 | 20210422 | Sunny | Moderate | Mid-Ebb | Bottom | 7.90 | 16:49 | 8.76 | 8.26 | 30.56 | 28.73 | 2.03 | 3.1 |
| WSR37 | 20210422 | Sunny | Moderate | Mid-Ebb | Bottom | 7.90 | 16:49 | 8.74 | 8.14 | 30.94 | 28.91 | 2.16 | 3.2 |
| WSR37 | 20210424 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 9:23 | 9.33 | 8.12 | 31.01 | 23.53 | 2.06 | 4.3 |
| WSR37 | 20210424 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 9:23 | 9.24 | 8.22 | 31.11 | 23.54 | 1.81 | 2.8 |
| WSR37 | 20210424 | Cloudy | Moderate | Mid-Ebb | Middle | 3.85 | 9:22 | 9.10 | 8.16 | 31.03 | 23.60 | 2.18 | 3.4 |
| WSR37 | 20210424 | Cloudy | Moderate | Mid-Ebb | Middle | 3.85 | 9:22 | 8.98 | 8.32 | 31.26 | 23.66 | 1.96 | 2.6 |
| WSR37 | 20210424 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.70 | 9:21 | 8.74 | 8.17 | 30.91 | 23.57 | 2.11 | 2.5 |
| WSR37 | 20210424 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.70 | 9:21 | 9.32 | 8.16 | 30.75 | 23.54 | 2.26 | 2.9 |
| WSR37 | 20210427 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 11:16 | 9.92 | 8.40 | 30.73 | 23.42 | 2.27 | 2.7 |
| WSR37 | 20210427 | Cloudy | Moderate | Mid-Ebb | Surface | 1.00 | 11:16 | 9.19 | 8.33 | 31.61 | 23.57 | 2.02 | 4.2 |
| WSR37 | 20210427 | Cloudy | Moderate | Mid-Ebb | Middle | 3.80 | 11:15 | 8.58 | 8.44 | 31.12 | 23.68 | 2.37 | 3.1 |
| WSR37 | 20210427 | Cloudy | Moderate | Mid-Ebb | Middle | 3.80 | 11:15 | 8.82 | 8.24 | 31.66 | 23.35 | 2.31 | 3.3 |
| WSR37 | 20210427 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.60 | 11:14 | 9.43 | 8.46 | 31.68 | 23.53 | 2.25 | 2.7 |
| WSR37 | 20210427 | Cloudy | Moderate | Mid-Ebb | Bottom | 6.60 | 11:14 | 9.27 | 8.45 | 31.31 | 23.49 | 2.35 | 3.1 |
| WSR37 | 20210429 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 12:40 | 8.79 | 8.30 | 30.35 | 26.35 | 2.48 | 4.0 |
| WSR37 | 20210429 | Sunny | Moderate | Mid-Ebb | Surface | 1.00 | 12:40 | 9.13 | 8.31 | 30.79 | 26.38 | 2.32 | 3.7 |
| WSR37 | 20210429 | Sunny | Moderate | Mid-Ebb | Middle | 3.85 | 12:39 | 9.12 | 8.17 | 30.08 | 26.42 | 2.14 | 4.0 |
| WSR37 | 20210429 | Sunny | Moderate | Mid-Ebb | Middle | 3.85 | 12:39 | 8.71 | 8.39 | 30.62 | 26.49 | 1.85 | 3.0 |
| WSR37 | 20210429 | Sunny | Moderate | Mid-Ebb | Bottom | 6.70 | 12:38 | 8.60 | 8.21 | 30.21 | 26.50 | 2.28 | 3.2 |
| WSR37 | 20210429 | Sunny | Moderate | Mid-Ebb | Bottom | 6.70 | 12:38 | 9.20 | 8.14 | 30.11 | 26.42 | 2.09 | 3.8 |
| Remark: | | | | | | | | | | | | | |

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

| 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) (Note 2) | |
|----------|--------------------|---------|------------------|-------|----------------|-----------|-----------------|-----------|----|-----------|-----------|-----------------------------|-----------------------|--|
|----------|--------------------|---------|------------------|-------|----------------|-----------|-----------------|-----------|----|-----------|-----------|-----------------------------|-----------------------|--|

Note 2: Measurement data of Suspending Solids would be rounding to 2.5mg/L if the value was less than 2.5mg/L to facilitate data analysing



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 ISG/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 ISG/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

L 001195



Appendix N

Water Quality Equipment Calibration Certificate



| Report No. | : | BA |
|---------------|---|-----|
| Date of Issue | : | 18 |
| Page No. | | 1 o |

030062 March 2021

 f_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

| Multi Water Quality Checker U-53 |
|----------------------------------|
| Horiba |
| UHB5F2BB |
| Mar 15, 2021 |
| Mar 18, 2021 |
| Jun 17, 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 Section 6 of international Accreditation New Zealand Technical Temperature 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 | 4.01 | 0.01 | Satisfactory |
| 7.42 | 7.32 | -0.10 | Satisfactory |
| 10.01 | 9.88 | -0.13 | 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 |
|-------------------------------------|------------------------|----------------|--------------|
| 7.5 | 7.80 | 0.30 | Satisfactory |
| 23 | 23.14 | 0.14 | Satisfactory |
| 37 | 36.45 | -0.55 | 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)"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.

LEE Chun-ning, Desmond Senior Chemist



| Report No. | : | BA030062 |
|---------------|---|---------------|
| Date of Issue | : | 18 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 |
|-------------------------|--------------------------|------------------|--------------|
| 0.51 | 0.17 | -0.34 | Satisfactory |
| 2.10 | 1.86 | -0.24 | Satisfactory |
| 5.67 | 5.36 | -0.31 | Satisfactory |
| 8.36 | 7.99 | -0.37 | 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 |
|------------------------|-------------------------|---------------|--------------|
| 10 | 9.15 | -8.50 | Satisfactory |
| 20 | 18.42 | -7.90 | Satisfactory |
| 30 | 28.43 | -5.23 | Satisfactory |

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

(5) Turbidity

| Expected Reading (NTU) | Displayed Reading ^(f) (NTU) | Tolerance ^(g) (%) | Results |
|---------------------------|--|---------------------------------|--------------|
| 0 | 0.55 | | Satisfactory |
| 10 | 9.15 | -8.5 | Satisfactory |
| 20 | 18.8 | -6.0 | Satisfactory |
| 100 | 93.0 | -7.0 | Satisfactory |
| 800 | 766 | -4.3 | Satisfactory |

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

~ END OF REPORT ~

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

"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.



| Report No. | : | BA040049 |
|---------------|---|---------------|
| Date of Issue | : | 16 April 2021 |
| Page No. | : | 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 : | Multi Water Quality Checker U-53 |
|---|----------------------------------|
| Manufacturer : | Horiba |
| Serial Number : | L20550GA |
| Date of Received : | Apr 08, 2021 |
| Date of Calibration : | Apr 15, 2021 |
| Date of Next Calibration ^(a) : | Jul 14, 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 | 4.04 | 0.04 | Satisfactory |
| 7.42 | 7.42 | 0.00 | Satisfactory |
| 10.01 | 9.85 | -0.16 | 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 | 13.07 | 0.07 | Satisfactory |
| 24.5 | 24.70 | 0.20 | Satisfactory |
| 33.5 | 33.09 | -0.41 | Satisfactory |

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

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

(a) 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

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

(d) "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
 (e) 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.

EE Chun-ning, Desmond Senior Chemist



| Report No. | : | BA040049 |
|---------------|---|---------------|
| Date of Issue | : | 16 April 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 |
|-------------------------|--------------------------|------------------|--------------|
| 0.21 | 0.00 | -0.21 | Satisfactory |
| 1.90 | 2.06 | 0.16 | Satisfactory |
| 5.50 | 5.69 | 0.19 | Satisfactory |
| 7.98 | 8.11 | 0.13 | 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 |
|------------------------|-------------------------|---------------|--------------|
| 10 | 9.78 | -2.20 | Satisfactory |
| 20 | 20.34 | 1.70 | Satisfactory |
| 30 | 31.16 | 3.87 | 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 | 9.25 | -7.5 | Satisfactory |
| 20 | 19.4 | -3.0 | Satisfactory |
| 100 | 105 | 5.0 | Satisfactory |
| 800 | 860 | 7.5 | Satisfactory |

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

~ END OF REPORT ~

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

 [&]quot;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. | |

BA040007 08 April 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 | 1 | Multi Water Quality Checker U-53 |
|---|---|----------------------------------|
| Manufacturer | : | Horiba |
| Serial Number | : | S2A98W8H |
| Date of Received | : | Mar 26, 2021 |
| Date of Calibration | : | Apr 07, 2021 |
| Date of Next Calibration ^(a) | : | Jul 06, 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 | 4.07 | 0.07 | Satisfactory |
| 7.42 | 7.41 | -0.01 | Satisfactory |
| 10.01 | 9.94 | -0.07 | 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 |
|-------------------------------------|------------------------|----------------|--------------|
| 17 | 17.55 | 0.55 | Satisfactory |
| 28 | 27.76 | -0.24 | Satisfactory |
| 43 | 42.80 | -0.20 | Satisfactory |

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

~ CONTINUED ON NEXT PAGE ~

<u>Remark(s): -</u> (a) The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.

- The results relate only to the calibrated equipment as received
- The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source. (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. | : | BA040007 |
|---------------|---|---------------|
| Date of Issue | : | 08 April 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 |
|-------------------------|--------------------------|------------------|--------------|
| 0.85 | 0.99 | 0.14 | Satisfactory |
| 2.60 | 2.40 | -0.20 | Satisfactory |
| 5.23 | 4.78 | -0.45 | Satisfactory |
| 8.15 | 8.06 | -0.09 | 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 |
|------------------------|-------------------------|---------------|--------------|
| 10 | 9.40 | -6.00 | Satisfactory |
| 20 | 18.80 | -6.00 | Satisfactory |
| 30 | 28.90 | -3.67 | 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 | 10.8 | 8.0 | Satisfactory |
| 20 | 21.0 | 5.0 | Satisfactory |
| 100 | 105 | 5.0 | Satisfactory |
| 800 | 838 | 4.8 | Satisfactory |

Tolerance limit of turbidity should be less than ± 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 (g) relevant international standards.

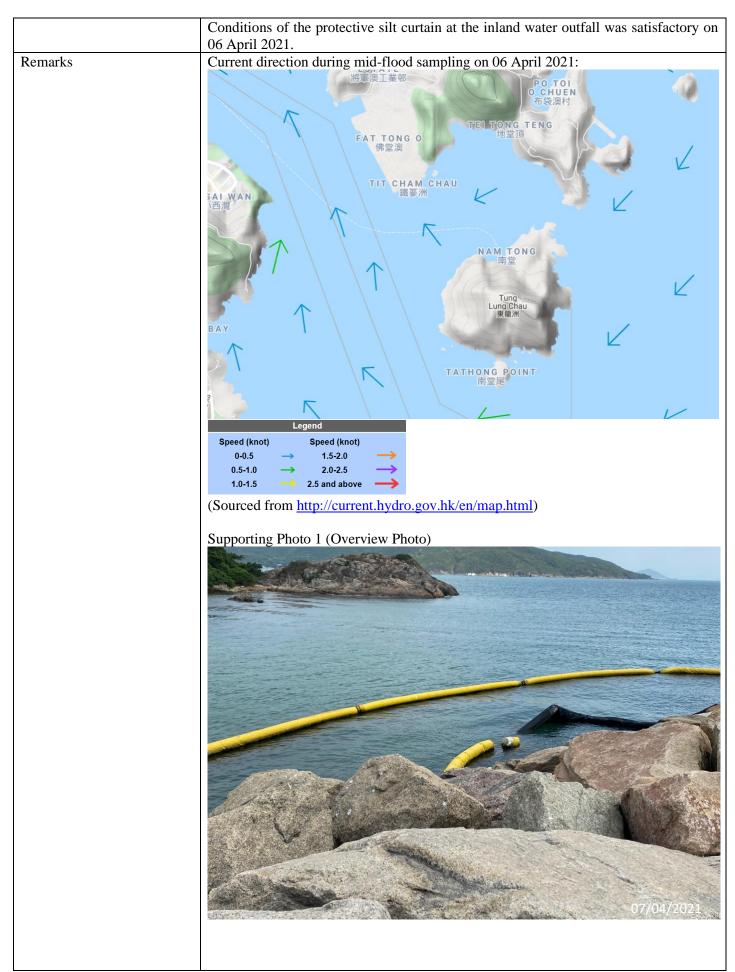


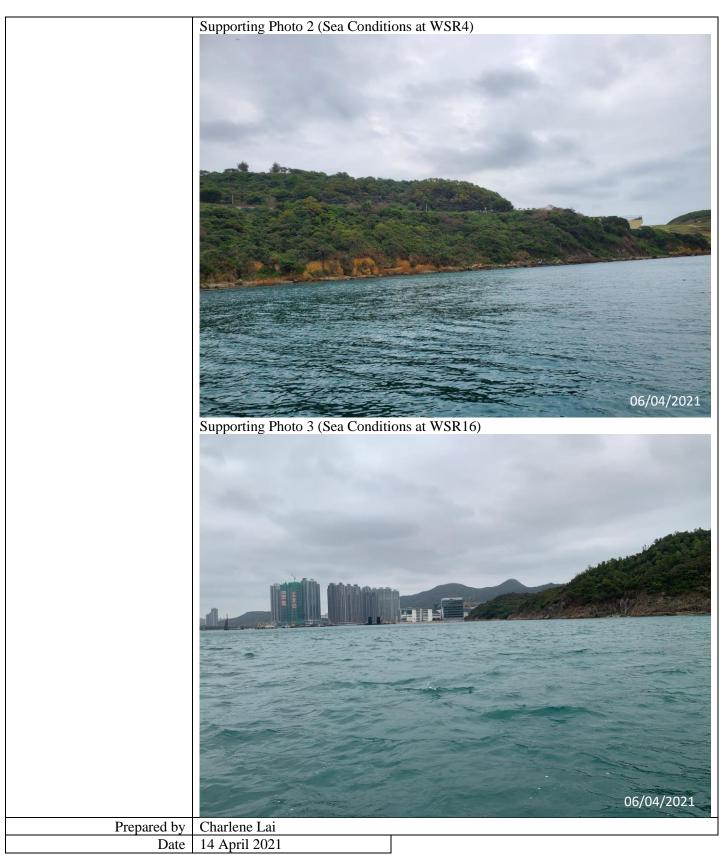
Appendix O

Exceedance Report(s)

Incident Report on Action Level or Limit Level Non-Compliance

| Project | Design, Build and Operate Fi | rst Stage of Tseung Kwan O | Desalination Plant |
|---|---|---|--|
| Date | 06 Apr 2021 (Lab result received on 12 Apr 2021) | | |
| Time | 08:00-11:30 (Mid-Flood) | i , | |
| | Mid-Fl | ood | |
| Monitoring Location | WSR4 and WSR16 | | |
| | HONG KONG ISLAND Tai Tam | Clear Water Bay | |
| 2 | | ¢F a | Klometree 1 2 |
| Parameter | Suspended Solid (SS) | · · · · · · | |
| Action & Limit Levels | Action Level | Limit Level | |
| | > 5.0 mg/L | > 6.0 mg/L | |
| Measurement Level | Impact Station(s) of | Control Stations | Impact Station(s) without |
| | Exceedance | 2.1 m c/L (CE) | Exceedance |
| | 5.3 mg/L (WSR 4) 5.1 mg/L (WSR 16) | 3.1 mg/L (CF) | 3.1 mg/L (WSR1) 4.8 mg/L (WSR2) |
| | 5.1 mg/L (WSIC 10) | | 4.3 mg/L (WSR3) |
| | | | 4.0 mg/L (WSR33) |
| | | | 5.0 mg/L (WSR36) |
| | | | 4.9 mg/L (WSR37) |
| Possible reason for Action or Limit Level Non-compliance | No marine activities were correstricted to land-based, of general housekeeping works accordance with the condition | onducted on 06/04/2021. Co which activities included for at various workfronts. These | nstruction works were only mworking, rebar fixing and e activities were regulated in |
| | 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 WSR4 and WSR 16 are located at upstream and downstream direction respectively during flood tide. Since no marine construction activities were conducted on the monitoring day (public holiday) whilst both stations were considered to be distant from the construction site, the exceedance on 06/04/2021 could be concluded not project-relevant. | | |
| | According to the field obser plume was observed in the Pr | | ring sampling event, no silt |



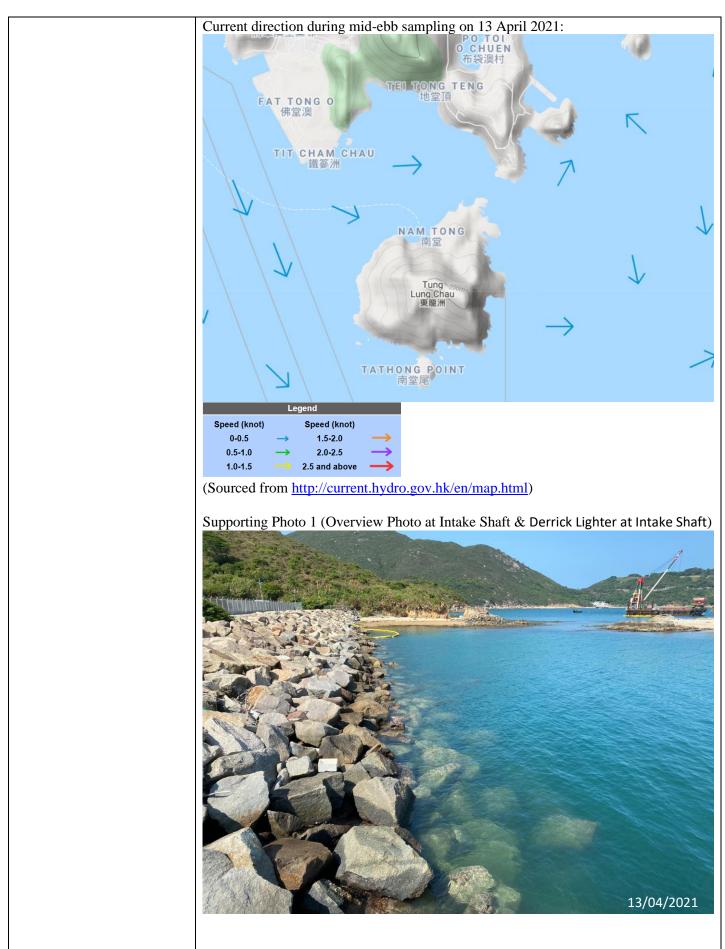


Incident Report on Action Level or Limit Level Non-Compliance

| Project | Design, Build and Operate Fi | rst Stage of Tseung Kwan | O Desalination Plant |
|---|---|---|--|
| Date | 13 Apr 2021 (Lab result received on 19 Apr 2021) | | |
| Time | 16:00-19:30 (Mid-Flood) and | | |
| | Mid-Fl | ood | |
| Monitoring Location | WSR3, WSR4, WSR33, WSI | R36 and WSR37 | |
| | HONG KONG ISLAND Tai Tam Big Nove Bay | Clear Water Bay | |
| | | 0 | Kilometres inclusive Location of Stativator Image 1 2 Indicative Location of Stativator Utility |
| Parameter | Suspended Solid (SS) | <u> </u> | |
| Action & Limit Levels | Action Level | Limit Lev | el |
| | > 5.0 mg/L | > 6.0 mg/I | L |
| Measurement Level | Impact Station(s) of Exceedance 5.6 mg/L (WSR 3) 5.3 mg/L (WSR 4) 5.5 mg/L (WSR 33) 5.3 mg/L (WSR 36) | Control Stations 3.1 mg/L (CF) | Impact Station(s) without Exceedance 3.8 mg/L (WSR1) 4.2 mg/L (WSR2) 4.9 mg/L (WSR16) |
| Possible reason for Action or Limit Level Non-compliance | 5.5 mg/L (WSR 37) Outfall Shaft Area: Marine of sheeting inside the hopper of conducted. Intake Shaft Area: marine con on temp. steel platform were Marine construction activities was conducted. Marine vessels on 13th April 2 Derrick lighter x 1, tug be Derrick lighter x 1(Intake Dominating sea current direct | derrick lighter and 2) re-a nstruction activities, name conducted. s with contact with water: 1 2021: oat x 1 (Outfall Shaft) e Shaft) tion was found to be from S | mely 1) seaming of silt curtain nchoring of derrick lighter were ely 1) material lifting & welding 1) re-anchoring of derrick lighter Southeast to Northwest at waters st to Southwest at waters to the |

| | the Outfall Shaft Area, only duration of re-anchoring wou limited. SS values of stations area (i.e. WSR3 and WSR4 WSR3 (the furthest station) exceedance observation may According to the field obser plume was observed in the P | one derrick lighter boat wald be considered as tempor which were considered to have also exceeded the was even higher than the be resulted from other na rvation by sampling team roject site. | was noted on 13 th April 2021 in was deployed near WSR37. The orary and affected area would be be distant from the construction Action Level. The SS value of ne other stations. Hence the SS tural factors. |
|---|--|--|---|
| Monitoring Logotion | | 200 | |
| Monitoring Location | HONG KONG ISLAND Tai Tam | Clear Water Bay WSR37 WSR37 WSR37 WSR37 WSR37 WSR47 WSR47 WSR47 WSR47 WSR47 UNR UNR Chau Chau | Image: State Stat |
| Parameter | Suspended Solid (SS) | | |
| Action & Limit Levels | Action Level | Limit Lev | |
| | > 5.0 mg/L | > 6.0 mg/ | |
| Measurement Level | Impact Station(s) of Exceedance | Control Stations | Impact Station(s) without Exceedance |
| | 5.5 mg/L (WSR 33) | 2.5 mg/L (CE) | 2.7 mg/L (WSR1) 2.9 mg/L (WSR2) 2.6 mg/L (WSR3) 2.5 mg/L (WSR4) 2.6 mg/L (WSR46) 3.1 mg/L (WSR36) 3.0 mg/L (WSR37) |
| Possible reason for Action or Limit Level Non-compliance | sheeting inside the hopper of conducted. | derrick lighter and 2) re-a | amely 1) seaming of silt curtain anchoring of derrick lighter were ely 1) material lifting & welding |

| | Marine construction activities with contact with water: 1) re-anchoring of derrick lighter was conducted. |
|---------|---|
| | Marine vessels on 13th April 2021: Derrick lighter x 1, tug boat x 1 (Outfall Shaft) Derrick lighter x 1(Intake Shaft) |
| | Dominating sea current direction was found to be from Northwest to Southeast at waters to the west side of Tit Cham Chau; and from West to East at waters to the east side of Tit Cham Chau. |
| | No marine construction activities with contact with water was conducted at the Intake Shaft on 13 th April 2021. Only material lifting and welding on temporary steel platform were conducted. Considering the SS level at the station (WSR37) which was nearest to the construction site with marine works was lower than station WSR33, there is no direct evidence indicating that the SS exceedance observed in station WSR33 was project related. |
| | 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 13 April 2021. |
| Remarks | Current direction during mid-flood sampling on 13 April 2021: |
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Incident Report on Action Level or Limit Level Non-Compliance

| Project | Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant | | |
|---|---|-----------------------|---|
| Date | 29 Apr 2021 (Lab result received on 06 May 2021) | | |
| Time | 08:00-11:30 (Mid-Flood) and 11:51-15:21 (Mid-Ebb) | | |
| Mid-Flood | | | |
| Monitoring Location | WSR16, WSR33 and WSR36 | | |
| | HONG KONG ISLAND | Clear Water Bay | |
| | Tai Tam Big Wave Boy | Tung Chau Voire | Key No |
| | | 0 | Kilometres 1 2 Indicative Location of Submarine Out(s) |
| Parameter | Suspended Solid (SS) | | |
| Action & Limit Levels | Action Level | Limit Le | evel |
| | > 5.0 mg/L | > 6.0 mg | g/L |
| Measurement Level | Impact Station(s) of | Control Stations | Impact Station(s) without |
| | Exceedance | | Exceedance |
| | 5.4 mg/L (WSR 16) | 4.1 mg/L (CF) | 3.7 mg/L (WSR1) |
| | 5.3 mg/L (WSR 33) | | 4.9 mg/L (WSR2) |
| | 5.3 mg/L (WSR 36) | | 3.9 mg/L (WSR3) |
| | - | | 4.3 mg/L (WSR4) |
| | | | 4.9 mg/L (WSR37) |
| Possible reason for Action or | | | |
| Limit Level Non-compliance prepared for pipe pile stocking; 2) dredging of non-marine sedimen | | | |
| | Intake Shaft Area: marine construction activities, namely 1) welding on temporary steel platform by derrick barge; 2) idling of crane barge | | |
| | Marine construction activities with contact with water: 1) dredging of non-marine sediment by derrick barge. | | |
| | Marine vessels on 29th April 2021: Derrick lighter x 2 (Outfall Shaft) Derrick lighter x 1, crane barge x 1 (Intake Shaft) | | |
| | Dominating sea current direction was found to be from Southeast to Northwest at waters to the west side of Tit Cham Chau; and from Northeast to Southwest at waters to the east side of Tit Cham Chau. | | |
| | The SS value of the station closet to the working area (WSR37) was observed relatively lower (4.9 mg/L) than of the stations with SS exceedance. Whilst dredging activities could lead to high SS values, the observed results infer that dredging at Outfall Shaft | | |

