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Contract No. PI 2/2020

Environmental Monitoring Works for Lei Yue Mun Waterfront Enhancement Project

Monthly EM&A Report (January 2022)

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REVISION HISTORY

Rev.	DESCRIPTION OF MODIFICATION	DATE



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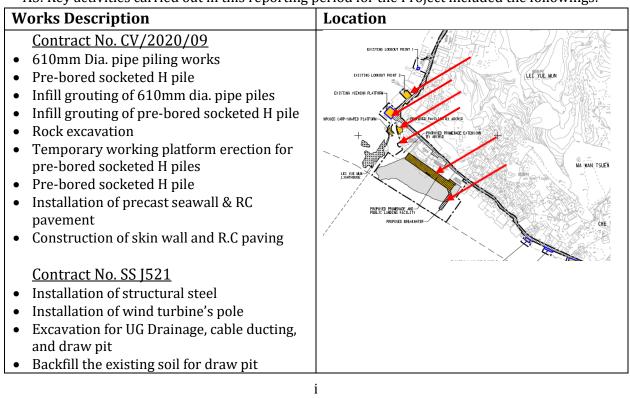
EXECUTIVE SUMMARY

INTRODUCTION

- A1. The Project, Lei Yue Mun Waterfront Enhancement Project, is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO) and is currently governed by an Environmental Permit (EP No. EP-564/2018) for the construction and operation of the Project.
- A2. The Civil Engineering and Development Department (CEDD) commissioned Acuity Sustainability Consulting Limited (ASCL) to undertake the role of Environmental Team (ET) for carrying out the Environmental Monitoring & Audit (EM&A) works during the construction phase of the Project in accordance with the EM&A Manual (the Manual).
- A3. In accordance with the Manual for the Project, the results and findings of all EM&A work required in this Manual shall be reported in the monthly EM&A reports prepared by the ET and endorsed by the Independent Environmental Checker (IEC).
- A4. This is the 9th Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 January to 31 January 2022.

SUMMARY OF MAIN WORKS UNDERTAKEN & KEY MITIGATION MEASURES IMPLEMENTED

A5. Key activities carried out in this reporting period for the Project included the followings:





Works Description	Location
Formwork	
• Excavation	
Formwork & Rebar fixing	

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

- Construction dust and noise generation from excavation and construction works
- Waste generation from construction activities
- Impact on water quality from marine construction works and inland 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
 - The dredging rate shall not exceed 100 m³ per hour with a maximum working period of 12 hours per day throughout the construction phase and operation phase.
 - Silt curtains should be deployed enclosing the dredging operation. Regular inspection on the silt curtain on the silt curtain condition by the contractor should be carried out.

SUMMARY OF EXCEEDANCE & INVESTIGATION & FOLLOW-UP

- A8. No noise-related exceedance was recorded in the reporting period.
- A9. No water quality monitoring exceedance was recorded in the reporting period.
- A10.Weekly site inspections of the construction work by ET were carried out on 5, 13, 20 and 26 January 2022 to audit the mitigation measures implementation status. 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

- A11.No project-related environmental complaint was received during the reporting period.
- A12.Neither notifications of summons nor prosecution was received for the Project.

REPORTING CHANGE

A13. 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

A14.Key activities anticipated in the next reporting period for the Project will include the followings:

Works Description	Location
Contract No. CV/2020/09	
610mm Dia. pipe piling works	Landing Facility
Pre-bored socketed H pile	Landing Facility
Infill grouting of 610mm dia. pipe piles	Landing Facility
Infill grouting of pre-bored socketed H pile	Landing Facility
Rock excavation	Landing Facility
Temporary working platform erection for pre-bored socketed H piles	Breakwater Construction Area
Pre-bored socketed H pile	Breakwater Construction Area
Installation of precast seawall & RC pavement	Viewing Platform
Construction of skin wall and R.C paving	Lookout Point
Contract No. SS J521	
Installation of structural steel	Viewing platform
Installation of wind turbine's pole	Rest garden
Excavation for UG Drainage, cable ducting, and draw pit	Rest garden
Backfill the existing soil for draw pit	Rest garden
Formwork	Precast staircase
Excavation	UG cable ducting at meter room
Formwork & Rebar fixing	Planter 1

A15.The major environmental impacts brought by the above construction works will include:

- Construction dust and noise generation from excavation and construction works
- Waste generation from construction activities
- Impact on water quality from marine construction works and inland construction works



- A16.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
 - The dredging rate shall not exceed 100 m³ per hour with a maximum working period of 12 hours per day throughout the construction phase and operation phase.
 - Silt curtains should be deployed enclosing the dredging operation. Regular inspection on the silt curtain on the silt curtain condition by the contractor should be carried out.



1. BASIC PROJECT INFORMATION

1.1. BACKGROUND

Civil Engineering and Development Department (CEDD) has contracted Concentric - Hong Kong River Joint Venture (CHKRJV) to carry out the Construction of Lei Yue Mun Public Landing Facility under **Contract No. CV/2020/09**; and Architectural Services Department (ArchSD) has contracted Milestone Builder Engineering Limited to carry out the development of a waterfront promenade and related improvement works under **Contract No. SS J521** for the Lei Yue Mun Waterfront Enhancement Project (the Project).

Acuity Sustainability Consulting Limited (ASCL) is commissioned by CEDD 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-219/2018) 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 under **Contract No. PI 2/2020**.

Pursuant to the Environmental Impact Assessment Ordinance (EIAO), the Director of Environmental Protection granted the Environmental Permit (No. EP-564/2018) to CEDD for the Project.

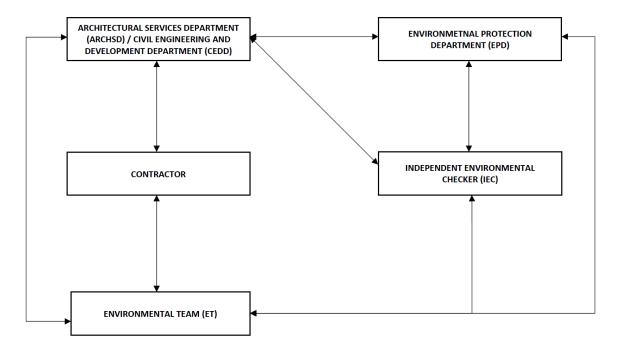
1.2. The Reporting Scope

This is the 9th Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 January to 31 January 2022.

1.3. PROJECT ORGANIZATION

The Project Organization structure for Construction Phase is presented in **Figure 1.1**. The key personnel's' contacts are presented in **Table 1.1** and **Table 1.2**.





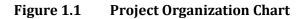


Table 1.1 Key Personnel's' Contact for the Construction of a Public Landing Facility andImprovement Works to Existing Lookout Points and Viewing Platform

Party	Position	Name	Phone
Civil Engineering and Development Department	Engineer	Ms. Lam Sau Lai, Katy	2762 5044
ANewR	Independent Environmental Checker	Mr. Choi Pui Sum, James	2618 2831
Acuity Sustainability Consulting Limited	Environmental Team	Mr. Li Wai Ming, Kevin	2698 6833
Concentric - Hong Kong River Joint Venture	Contractor	Mr. T S Lam	9655 5486

Table 1.2 Key Personnel's' Contact for the Development of a Waterfront Promenade and Related Improvement Works

Party	Position	Name	Phone
Architectural Services Department	Project Manager	Mr. Ken Chan	2867 3850
ANewR	Independent Environmental Checker	Mr. Choi Pui Sum, James	2618 2831
Acuity Sustainability Consulting Limited	Environmental Team	Mr. Li Wai Ming, Kevin	2698 6833
Milestone Builder Engineering Ltd.	Environmental Officer	Ms. Mandy Fung	6506 0375



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:

Works Description	Location	
Contract No. CV/2020/09		
610mm Dia. Pipe piling work	Landing Facility	
Infill grouting of 610mm dia. pipe piles	Landing Facility	
Pre-bored socketed H pile	Landing Facility	
Infill grouting of pre-bored socketed H pile	Landing Facility	
Rock Excavation	Landing Facility and	
	Breakwater Construction Area	
Temporary working platform erection for pre-bored	Breakwater Construction Area	
socketed H piles at breakwater area		
Demolition of existing seawall construction	Viewing Platform	
Trial panel for formwork erection	Lookout Point	
Contract No. SS J521		
Construct blinding layer	Planter 1	
Formwork & Rebar fixing	Planter 1	
Concrete work	Planter 1	
Formwork & Rebar fixing	Manhole	
Concrete work	Draw Pit	
Excavation	UG Drainage System,	
	UG cable ducting and draw pit,	
	UG cable ducting at meter room	
Lifting activities (structural steel)	Viewing platform	



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 1.3**.

Table 1.3 Summary of the Status of Valid Environmental Licence, Notification and Permit

Permit/ Licenses/ Notification	Reference	Validity Period
Contract No. CV/2020/09		
Environmental Permit	EP-564/2018	Throughout the Contract
Notification of Construction Works under	Ref. No.: 463353	Throughout the Contract
the Air Pollution Control (Construction		
Dust) Regulation (Form NA)		
Chemical Waste Producer Registration	5213-298-C3752-02	Throughout the Contract
Billing Account for Disposal of	7039364	Throughout the Contract
Construction Waste		
Contract No. SS J521		
Environmental Permit	EP-564/2018	Throughout the Contract
Notification of Construction Works under	Ref. No.: 467619	Throughout the Contract
the Air Pollution Control (Construction		
Dust) Regulation (Form NA)		
Chemical Waste Producer Registration	5312-298-M2939-02	Throughout the Contract
Billing Account for Disposal of	7039353	Throughout the Contract
Construction Waste		
Discharge Licence under	WT00039075-2021	Valid to 30 Sep 2026
Water Pollution Control Ordinance		



The status for all environmental aspects is presented in Table 1.4.

Parameters	Status	
Water Quality		
Baseline Monitoring under EM&A Manual	The baseline monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.3 on 25 May 2021	
Impact Monitoring	The impact water quality monitoring of the Project commenced on 14 September 2021	
Noise		
Baseline Monitoring	The baseline monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.3 on 25 May 2021	
Noise Management Plan	The Noise Management Plan was submitted by the Contractor on 4 May 2021 and approved on 10 May 2021	
Impact Monitoring	On-going	
Ecology		
Conceptual Landscape Layout Plan	The Conceptual Landscape Layout Plan will be submitted no later than three months prior to the commencement of detailed design of the landscape and architectural works of the Project under EP Condition 2.10	
Coral Baseline Survey Report	The Coral Baseline Survey Report was submitted to EPD under EP Condition 2.14 on 12 May 2021 and approved by EPD on 18 May 2021	
Coral Translocation Plan	The Coral Translocation Plan was submitted to EPD under EP Condition 2.16 on 28 April 2021 and commented received on 27 September 2021. Updated Coral Translocation Plan was submitted to EPD on 22 December 2021 and approved on 7 January 2022.	
Coral Review Report	The Coral Review Report will be submitted no later than three months before the commencement of each maintenance dredging under EP Condition 2.20	
Waste Management		
Mitigation Measures in Waste Monitoring Plan	On-going	
Environmental Audit		
Site Inspection covering Measures of Air Quality, Noise Impact, Water Quality, Waste, Ecological Quality, Fisheries, Landscape and Visual	On-going	

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 B**.



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) NM1 – Village house in Lei Yue Mun Hoi Pong Road Central, (ii) NM2-A – No.79B, Lei Yue Mun Hoi Pong Road East, (iii) NM3 – Jockey Club Lei Yue Mun Plus and (iv) NM4 – No. 21C, Lei Yue Mun Hoi Pong Road East 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 was 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.

Four (4) sessions of noise monitoring were carried out at the monitoring locations sited at LYM in the reporting month. The results are presented in **Appendix F.**

Construction noise level were measured in terms of the A-weighted equivalent continuous sound pressure level (LAeq). Leq _{30min} was used as the monitoring parameter for the time period between 0700 and 1900 on normal weekdays. **Table 2.1** summarizes the monitoring parameters, frequency and duration of the impact noise monitoring.

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

Table 2.1 Noise Monitoring Parameters, Time, Frequency and Duration

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.



Station	Noise Monitoring Stations	Monitoring Location	Position
NM1	Village house in Lei Yue Mun Hoi Pong Road Central	Pedestrian Road on Ground Floor	1 m from facade
NM2	No.81, Lei Yue Mun Hoi Pong Road East	Pedestrian Road on Ground Floor	1 m from facade
NM3	Jockey Club Lei Yue Mun Plus	Fenced Road on Ground Floor	1 m from facade
NM4	No. 21C, Lei Yue Mun Hoi Pong Road East	Fenced Road on Ground Floor	1 m from facade

Table 2.2 Noise Monitoring Locations

The original construction noise monitoring station NM2 was selected at the façade of No. 81 of Lei Yue Mun Hoi Pong Road East. However, the residents of the premises at No. 81 of Lei Yue Mun Hoi Pong Road East do not allow the setting up of the construction noise monitoring station NM2. No. 79B, Lei Yue Mun Hoi Pong Road East, was proposed as the alternative noise monitoring location for set up of construction noise monitoring station named as NM2-A.

A Proposal for Alternative Noise Monitoring Station, which was certified by the ET Leader and verified by the IEC, has been prepared to conclude that the alternative construction noise monitoring station NM2-A could conform to relevant requirements as set out in the EM&A Manual, namely:

- locate close to the major site activities which are likely to have noise impacts;
- locate close to the most affected existing NSRs; and
- take into account the possibility of minimizing disturbance to occupants at the NSRs during monitoring.

The Proposal for Alternative Noise Monitoring Station NM2-A has been approved by EPD on 16 April 2021.

The latest locations for the construction noise monitoring are listed in **Table 2.3**.

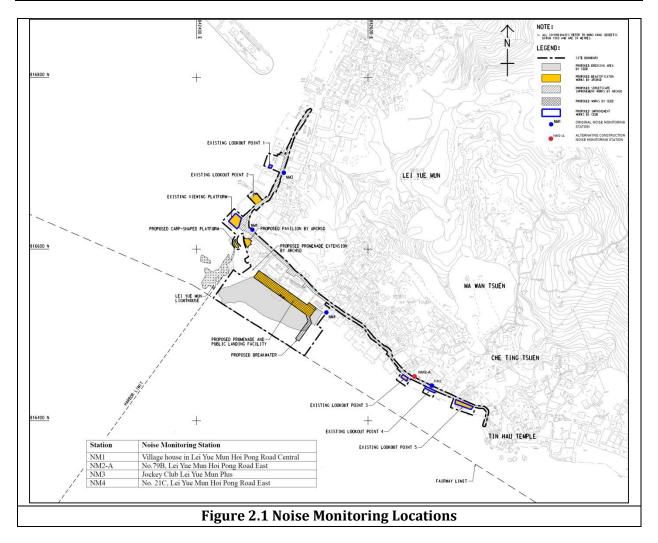
Station	Noise Sensitive Receiver	Monitoring Location	Position
NM1	Village house in Lei Yue Mun Hoi Pong Road Central	Pedestrian Road on Ground Floor	1 m from facade
NM2-A	No.79B, Lei Yue Mun Hoi Pong Road East	Pedestrian Road on Ground Floor	1 m from facade
NM3	Jockey Club Lei Yue Mun Plus	Fenced Road on Ground Floor	1 m from facade
NM4	No. 21C, Lei Yue Mun Hoi Pong Road East	Fenced Road on Ground Floor	1 m from facade

Table 2.3 Updated Noise Monitoring Stations for Ba	aseline and Impact Monitoring
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The location of all original construction noise monitoring stations and the alternative construction noise monitoring station are shown in **Figure 2.1**.

Contract No. PI 2/2020 Environmental Monitoring Works for Lei Yue Mun Waterfront Enhancement Project 9th Monthly EM&A Report (January 2022)







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 are shown at **Appendix E**.

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.

Table 2.4 Impact Noise Monitoring Equipment

Equipment	Make and Model
Sound Level Meter	Scarlet ST-11D
Acoustic Calibrator	Pulsar Model 105

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 2.5**.

Table 2.5 Action and Limit Levels for Noise per EM&A Manual

Time Period	Action	Limit (dB(A))
	When one documented	75 dB(A) for residential areas;
0700-1900 on normal weekdays	complaint is received from any one of the noise sensitive receivers	70 dB(A) for school; and 65 dB(A) during examination period

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 D**.



2.5. MONITORING RESULTS AND OBSERVATIONS

Referring to EM&A manual Section 4.6.1.1 construction noise monitoring should be carried out when there are project-related construction activities undertaken within a radius of 300m from the monitoring stations. Four (4) sessions of noise monitoring were carried out at the monitoring locations sited at LYM in the reporting month. The below Table 2.6 summarized the results of the monitoring.

Location	Noise in dB(A)
LUCALIUII	L _{eq 30min} Daytime (7:00-19:00 on normal weekdays)
NM1	60.1 - 63.4
NM2-A	53.1 - 55.7
NM3	64.2 - 65.8
NM4	66.8 - 67.4

Table 2.6 Summary of Noise Monitoring Results in the Reporting Month



3. WATER QUALITY

3.1. MONITORING REQUIREMENTS

As identified in the EIA Report, suspended sediment is the most critical water quality parameter caused by the dredging works. Marine water quality monitoring should be carried out during the dredging and filling operation to ensure that any unacceptable increase in suspended solids / turbidity and decrease in dissolved oxygen due to the dredging activities could be readily detected and timely action be taken to rectify the situation.

During the dredging (both capital and maintenance) and filling operation of the Project, water quality impact monitoring should be undertaken 3 days per week, at mid-flood and mid-ebb tides, with sampling / measurement at the designated monitoring stations. The locations for impact monitoring should be the same as those for baseline monitoring.

The impact water quality monitoring of the Project commenced on 14 September 2021.

3.2. 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 impact monitoring are listed in **Table 3.1**.

Parameters	Unit	Abbreviation		
In-situ measurements				
Dissolved oxygen*	mg/L	DO		
Temperature	٥C	-		
рН	-	-		
Turbidity*	NTU	-		
Salinity	mg/L	-		
Laboratory measurement	S			
Suspended Solids*	mg/L	SS		

Table 3.1 Falameters measured in the marme water quality monitoring	Table 3.1 Parameters measured in the marine water quality	y monitoring
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Notes: * Key Parameters shown in EM&A manual Table 5.1.



3.3. 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 cables shall be available for replacement where necessary (e.g. YSI model 59 D0 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).

pH Measurement Instrument - The instrument should consist of a potentiometer, a glass electrode, a reference electrode and a temperature-compensating device. It should be readable to 0.1 pH in a range of 0 to 14. Standard buffer solutions of at least pH 7 and pH 10 should be used for calibration of the instrument before and after use.

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.

Sample Containers and Storage - Water samples for SS should be stored in high density polythene bottles with no preservative added, packed in ice (cooled to 4 °C without being frozen) and delivered to the laboratory and analyzed as soon as possible after collection. Sufficient volume of samples should be collected to achieve the detection limit.

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.

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.

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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.

Calibration certificate for the water quality monitoring equipment is attached in **Appendix H**.

3.4. 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 recalibrated 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.

3.5. 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 24 hours 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.

Detailed testing methods, pre-treatment procedures, instruments use, Quality Assurance / Quality Control (QA/QC) details (such as blank, spike recovery, number of replicate samples per batch, etc.), detection limit and accuracy were submitted to EPD for approval on 3 February 2021 prior to the commencement of monitoring programme. EPD may also request the laboratory to carry out analysis of known standards provided by EPD for quality assurance. The QA / QC shall be in accordance with the requirements of HOKLAS or international accredited scheme. The QA/ QC results shall be reported. The testing methods and related proposal were checked and certified by IEC before submission to EPD for approval.

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



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

Parameter	Standard Method	Detection Limit	Accuracy
Suspended Solids (mg/L)	APHA 2540D	1.0*	±17%

Remark *: Albeit the selected HOKLAS accredited laboratories' standard testing method of total suspended solid according to APHA Method 2540D is capable of reporting the results to 1 mg/L, the laboratory advised that results reported between 1 and 2 mg/L shall be considered to be used as reference value and receive no HOKLAS accreditation for this particular range of result.

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**.

3.6. MONITORING LOCATIONS

The water quality monitoring locations for baseline are in accordance to the EM&A Manual and detailed in **Table 3.3** below. The water quality monitoring schedule should be submitted to EPD at least 1 week before the first day of the monitoring month.

Station	Easting	Northing	Description
C1	842134	816765	Control Station
C2	842946	816172	Control Station
M1	842605	816433	Coral Communities (Impact Monitoring Station)
M2	842329	816615	100m away from the dredging site (Impact Monitoring Station)
M3	842639	816410	Coral Communities (Impact Monitoring Station)
M4	842515	816878	Sam Ka Tsuen Typhoon Shelter (Impact Monitoring Station)

Table 3.3 Location of Water Quality Monitoring Station



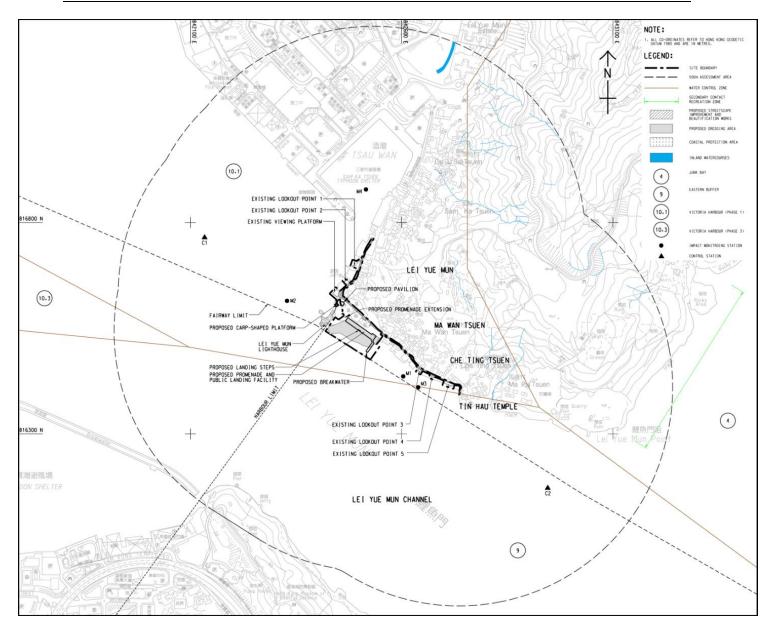


Figure 3.1 Water quality monitoring locations under EM&A Manual

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3.7. SAMPLING FREQUENCY

During periods when there are dredging or filling 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 or filling activities. Monitoring at each station would be undertaken at both mid-ebb and mid-flood tides on the same day. 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.

3.8. SAMPLING DEPTHS & REPLICATION

For water quality 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.

3.9. ACTION AND LIMIT LEVELS

Based on the baseline water quality monitoring data and the derivation criteria specified in the Baseline Monitoring Report, the Action/Limit Levels have been derived for the Project and presented in **Table 3.4**.

Parameters	Action	Limit		
During the Dredging and Filling Operation of the Project				
DO in mg/L	Surface and Middle 7.95 mg L ⁻¹ Bottom 7.91 mg L ⁻¹	Surface and Middle 4 mg L ⁻¹ Bottom 2 mg L ⁻¹		
SS in mg/L (Depth- averaged)	6.73 mg L ⁻¹ or 120% of control station's SS at the same tide of the same day	17.60 mg L ⁻¹ or 130% of control station's SS at the same tide of the same day and specific sensitive receiver water quality requirements (e.g. required SS level for concerned seawater intakes)		
Turbidity in NTU (Depth-averaged)	7.42 NTU or 120% of control station's SS at the same tide of the same day compared with corresponding data from control station	7.79 NTU or 130% of control station's SS at the same tide of the same day compared with corresponding data from control station		

Table 3.4 Derived Action and Limit Levels for Water Quality Monitoring

Notes:

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- 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 and Salinity, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

3.10. MONITORING PROGRAMME

The ET of the Project had conducted the baseline water monitoring between 15 April 2021 to 11 May 2021 at all six designated monitoring stations (i.e. C1, C2, M1, M2, M3 and M4). The monitoring results was presented in Baseline Water Quality Monitoring Report separately.

The commencement of marine construction activities for the Project is expected to be commenced in mid-September 2021 and the impact water quality monitoring of the Project commenced on 14 September 2021.

3.11. MONITORING RESULTS AND OBSERVATIONS

The impact water quality monitoring was conducted at all six monitoring stations (i.e. C1, C2, M1, M2, M3 and M4). The monitoring results are summarized in **Table 3.5**. Details of water quality monitoring results are presented in **Appendix I**.



					Para	ameters				
Loca	ation	Diss	olved Ox	xygen (mg	/L)	Turbi	dity	Suspende	ed Solids	
		S&N	((i)	B (i	i)	(NT	U)	(mg	g/L)	
		Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	
	Avg.	8.48	8.67	8.47	8.63	7.69	8.84	6	8	
C1	Min.	7.99	8.08	7.99	7.96	2.96	3.39	3	4	
Max.		9.15	9.46	9.19	9.35	10.37	11.07	14	15	
	Avg.	8.64	8.81	8.62	8.85	8.72	7.53	7	6	
C2 Min. Max.		8.02	8.27	7.99	8.17	3.13	2.68	4	3	
		9.28	9.57	9.33	9.54	11.68	9.57	10	15	
	Avg.		8.79	8.62	8.82	6.90	7.15	4	4	
M1	Min.	8.23	8.17	8.13	8.24	2.25	2.21	3	3	
	Max.	9.18	9.48	9.22	9.56	8.73	9.63	8	8	
	Avg.	8.63	8.74	8.62	8.74	6.59	6.59 6.85		5	
M2	Min.	8.04	8.13	8.06	8.14	1.89	2.12	3	3	
	Max.	9.68	9.78	9.63	9.69	8.52	8.90	7	6	
	Avg.	8.82	8.79	8.76	8.74	6.87	6.95	5	5	
M3	Min.	8.11	8.01	8.16	8.05	2.62	2.19	3	3	
	Max.	9.41	9.76	9.42	9.25	8.35	9.10	6	8	
	Avg.	8.62	8.71	8.67	8.69	6.49	6.81	4	4	
M4	Min.	8.01	8.14	8.13	8.08	2.20	2.20	3	3	
	Max.	9.11	9.46	9.20	9.42	9.60	8.71	7	7	

Table 3.5 Summary of Water Quality Monitoring Results in the Reporting Month

Notes: i.

" S&M": Surface and Middle, "B": Bottom.

No water quality monitoring exceedance was recorded in the reporting period.



Follow-up of Water Monitoring Exceedances

Water monitoring exceedances were recorded in the previous reporting period and summarized as below:

Date	Tidal	Location	Parameter	Monitoring Result (mg/L)	AL (mg/L)	LL (mg/L)
30/12/2021	Mid-Flood	M1	SS*	13.83	6.80	7.37
30/12/2021	Mid-Flood	M4	SS*	22.50	6.80	7.37
30/12/2021	Mid-Ebb	M2	SS*	7.50	7.40	8.02

Notes: SS*: Suspended Solids

After the ET's investigation, the exceedances on 30 December 2021 were deemed to be unrelated to the Project. The action level or limit Level exceedance incident report had send to IEC, ER, Contractor and EPD for record.



4. ECOLOGICAL

4.1. INTRODUCTION

Background

Lei Yue Mun (LYM) is one of the most popular tourist attractions in Hong Kong, for its pleasant seaside ambience and excellent seafood. LYM was included in the Tourism Commission (TC)'s Tourism District Enhancement Programme to enrich Hong Kong's appeal to visitors. In 2003, initial minor improvements were completed along the LYM waterfront, and further improvement of facilities along the LYM waterfront was planned.

The Project, Lei Yue Mun Waterfront Enhancement Project is a Designated Project under the Environmental Impact Assessment Ordinance (EIAO). An EIA Report under Agreement No. CE 54/2015 (EP) (Report No.: AEIAR-219/2018) for the Project was approved under EIAO on 26 October 2018 in accordance with the EIA Study Brief (No. ESB-287/2015) and the Technical Memorandum on Environmental Impact Assessment Process (EIAO-TM). The corresponding Environmental Permit was issued (EP no.: EP-564/2018) by the Director of Environmental Protection (DEP) on 10 December 2018.

The works to be executed under Contract No. CV/2020/09 Construction of Lei Yue Mun Public Landing Facility (hereinafter called "the Contract") mainly comprise the construction of a public landing facility, a breakwater, and structural improvement works to an existing viewing platform and a lookout point. Dredging and excavation works for berthing of vessels at the new public landing facility will be involved, which might directly affect the hard coral colonies. Thus, a coral baseline survey that involves a detail coral mapping survey shall be conducted to ascertain the location, sizes, species and health status of the corals with reference to the extent of marine ecological survey indicated at Figure 9.1 of the EIA Report under the Contract.

Coral mapping surveys were conducted in March 2021, forty-four (44) octocoral colonies recorded on movable boulders shall be translocated to a coral recipient site Fat Tong Chau (FTC), Junk Bay.

Coral translocation was conducted on 20 and 21 May 2021, a total of forty-seven (47) octocoral colonies attached to movable boulders were translocated to the coral recipient site FTC, Junk Bay.

A Post-translocation Coral Survey was conducted on 21 May 2020, to monitor the health condition of the tagged colonies after coral translocation, including the tagged colonies from the donor site (i.e. the proposed dredging area at LYM) and also the tagged naturally occurring corals at the coral recipient site at Fat Tong Chau (FTC), Junk Bay.

Followed by the Post-translocation Coral Survey, Post-translocation monitoring will be conducted quarterly for one year.

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4.2. METHOD

Following coral translocation which was undertaken on 20th and 21st May 2021, 10 selected translocated coral colonies as well as the 10 tagged natural coral colonies at the recipient site will be monitored once every 3 months for a period of 12 months. The monitoring team will record the following parameters (using the same methodology adopted during the pre-translocation survey): size, presence, survival, health conditions (percentage of mortality) and percentage of sediment of each translocated coral colonies. The general environmental conditions including weather, sea, and tidal conditions of the coral recipient site will also be monitored.

Photographic records of the translocated and natural coral colonies will be taken as far as possible maintaining the same aspect and orientation as photographs taken for the pre-translocation surveys. All the tags for marking the translocated and natural coral colonies will be removed / retrieved once the monitoring programme is completed.

The results of the post-translocation monitoring surveys should be reviewed with reference to findings of the baseline survey and the data from original colonies at the recipient site.

If, during the post-translocation monitoring, observations of any die-off / abnormal conditions of the translocated corals are made, the ET will inform the Contractor, Independent Environmental Checker (IEC)/ Environmental Project Office (ENPO), Agriculture, Fisheries and Conservation Department (AFCD) and in liaison with AFCD investigate any measures needed.

The results of the post-translocation monitoring will be reviewed with reference to findings of the baseline survey and the data from naturally occurring colonies at the recipient site and evaluated against Action and Limit Levels. Evaluation will be based on recorded changes in percentage of partial mortality of the corals. Action and Limit Levels are defined in **Table 4.2.1** below.

Parameter	Action Level Definition	Limit Level Definition
Mortality	a 15% increase in the percentage of partial mortality on the corals occurs at more than 20% of the translocated coral colonies that are not recorded on the	If during the Post-translocation Monitoring a 25% increase in the percentage of partial mortality at more than 20% of the translocated coral colonies occurs that is not recorded at the original corals at the recipient site, then the Limit Level is exceeded.

Table 4.2.1 Action and Limit Levels for Coral Post-translocation Monitoring

Post-translocation monitoring results will be evaluated against Action and Limit Levels. Evaluation will be based on recorded changes in percentage of partial mortality of the corals. Action and Limit Levels are defined in **Table 2.1**.

If the defined Action Level or Limit Level for coral monitoring as listed in **Table 4.2.1** is exceeded, the actions as set out in **Table 4.2.2** will be implemented.

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Table 4.2.2	Event and Action Plan for Coral Post-translocation Monitoring
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Event		Action	
Lvent	ET Leader	IEC	Main Contractor
Action Level Exceedance	 Check monitoring data; Identify the source(s) of impact; Inform the IEC and main contractor of the findings; Increase the monitoring to at least once a month to confirm findings; Liaise with AFCD to investigate any mitigation measures needed; and Propose mitigation measures for consideration. 	 Discuss monitoring with the ET; Review proposals for additional monitoring and any other measures and advise the main contractor accordingly. 	 Discuss with the IEC additional monitoring requirements and any other measures proposed by the ET; Make the agreement on the measures to be implemented.
Limit Level Exceedance	1. Undertake Steps 1-5 as in the Action Level Exceedance. If further exceedance of Limit Level, propose enhancement measures for consideration.	 Discuss monitoring with the ET; Review proposals for additional monitoring and any other measures and advise the main contractor accordingly. 	 Discuss with the IEC additional monitoring requirements and any other measures proposed by the ET; Make the agreement on the measures to be implemented.



4.3. MONITORING RESULTS AND OBSERVATIONS

No Post-translocation Monitoring was performed in the reporting month.

Table 4.3.1	Weather	Condition	for the	Coral	Translocation
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Date	Condition	Average Underwater Visibility
NIL		

10 selected translocated coral colonies were monitored at the recipient site as suggested in the Coral Translocation Plan. The area with translocated coral colonies in recipient Site A is shown in **Figure 4.1**. The general health conditions (size, mortality, bleaching and sediment) were recorded and summarized in **Table 4.3.2**.

Coral #	Species	Size (cm) – Max. Diameter/	Mortal	ity (%)	Bleach	ing (%)	Sediment (%)		
		Height	Baseline	Jan 22*	Baseline	Jan 22*	Baseline	Jan 22*	
T1	Echinomuricea sp.	20	0	N. A	0	N. A	0	N. A	
T2	Echinomuricea sp.	15	0	N. A	0	N. A	0	N. A	
T3	Echinomuricea sp.	15	0	N. A	0	N. A	0	N. A	
T4	Echinomuricea sp.	20	0	N. A	0	N. A	0	N. A	
T5	Echinomuricea sp.	20	0	N. A	0	N. A	0	N. A	
T6	Echinomuricea sp.	25	0	N. A	0	N. A	0	N. A	
T7	Echinomuricea sp.	20	0	N. A	0	N. A	0	N. A	
T8	Echinomuricea sp.	25	0	N. A	0	N. A	0	N. A	
T9	Echinomuricea sp.	15	0	N. A	0	N. A	0	N. A	
T10	Echinomuricea sp.	15	0	N. A	0	N. A	0	N. A	

Table 4.3.2 Size, Mortality, Bleaching and Sediment of 16 Translocated Coral Colonies

Notes: * No Post-translocation Monitoring was performed in the reporting month.

Ten (10) hard coral colonies which grow naturally at the recipient site R3 were also monitored and photos of each coral colony were taken during the post-translocation activities (Photo Plate 2). The general health conditions (Size, Mortality, Bleaching and Sediment) were recorded and summarized in **Table 4.3.3**.

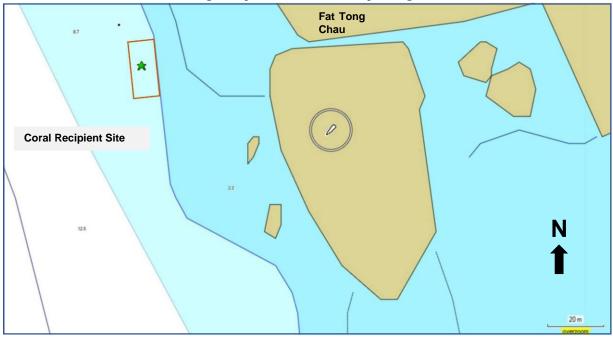


Coral #	Spagios	Size (cm) –	Mortal	ity (%)	Bleach	ing (%)	Sedime	nt (%)
Corar #	Species	Max. Height	Baseline	Jan 22*	Baseline	Jan 22*	Baseline	Jan 22*
R1	Echinomuricea sp.	35	0	N. A	0	N. A	0	N. A
R2	Echinomuricea sp.	35	0	N. A	0	N. A	0	N. A
R3	Echinomuricea sp.	30	0	N. A	0	N. A	0	N. A
R4	Echinomuricea sp.	30	0	N. A	0	N. A	0	N. A
R5	Echinomuricea sp.	35	0	N. A	0	N. A	0	N. A
R6	Echinomuricea sp.	30	0	N. A	0	N. A	0	N. A
R7	Echinomuricea sp.	30	0	N. A	0	N. A	0	N. A
R8	Echinomuricea sp.	20	0	N. A	0	N. A	0	N. A
R9	Echinomuricea sp.	20	0	N. A	0	N. A	0	N. A
R10	Echinomuricea sp.	20	0	N. A	0	N. A	0	N. A

Table 4.3.3 Size, Mortality, Bleaching and Sediment of 10 Natural Coral Colonies

Notes: * No Post-translocation Monitoring was performed in the reporting month.

4.4. DISCUSSION AND CONCLUSION



No Post-translocation Monitoring was performed in the reporting month.

Figure 4.1 Location of Coral Recipient Site



5. WASTE

The waste generated from this Project includes inert construction and demolition (C&D) materials, and non-inert C&D materials. Non-inert C&D materials are made up of general refuse, vegetative wastes and recyclable wastes such as plastics and paper/cardboard packaging waste. Steel materials generated from the 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 presented in **Table 5.1**.



Table 5.1 Quantities of Waste Generated from the Project during 2022

Department: CEDD Contract : CV/2020/09 - Construction of Lei Yue Mun Public Landing Facility



			8	Qu	antities	of Inert	C&D Ma	aterials (Generat	ed Mon	thly		8.				Quanti	ties of C	&D Was	tes Gen	erated N	/Ionthly			
Month		Total Quantity Generated (in '000m ³)		Generated (see Note 2)		Reused in the Contract (in '000m ³)		Reused in other Projects (in '000m ³)		Disposed as Public Fill				Imported Fill		Metals		Paper / Cardboard packaging		Plastics (see Note 3)		Chemical Waste		Others, e.g. general refuse	
	(in '0	00m³)	(in '000m ³)		(in '0					00m³)	(in '0	(in '000m ³)	(in '0	00m³)	(in '000kg)		(in '0	OOkg)	(in '0	OOkg)	(in '000kg)		(in '0	00m³)	
	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	
Jan	0.02	0.48	0	0	0	0	0	0	0.02	0	0	0.48	0	0	0	0	0	0	0	0	0	0	0	0	
Feb	2.02	901020502	0	(34)-0	0	98,527	0	2.5	0.02	2.6	2	ASTRONUT	0	~	0		0		0	220	0		0.02	10000	
Mar	2.02		0		0		0		0.02		2		0		0		0		0		0		0.01		
Apr	2.02		0		0		0		0.02		2		0		0		0		0		0		0.01		
May	2.02		0		0		0		0.02		2		0		0		0		0		0		0.005		
Jun	2.02		0		0		0		0.02		2		0		0		0		0		0.01		0.005		
Sub-total	10.12	0.48	0	0	0	0	0	0	0.12	0	10	0.48	0	0	0	0	0	0	0	0	0.01	0	0.05	0	
Jul	0.2		0		0		0		0.2		0		0		0		0		0		0		0.005		
Aug	0.3		0		0		0		0.3		0.0		0		0		0		0		0		0.005		
Sep	0.3		0		0		0		0.3		0.0		0		0		0		0		0		0.005		
Oct	0.2		0		0		0		0.2		0.0		0		0		0		0		0		0.005		
Nov	0.2		0		0		0		0.2		0.0		0		0		0		0		0		0.005		
Dec	0.2		0		0		0		0.2		0.0		0		0		0		0		0.01		0.005		
Total	11.52	0.48	0	0	0	0	0	0	1.52	0	10.00	0.48	0	0	0	0	0	0	0	0	0.02	0	0.08	0	

Monthly Summary	Waste Flow	Table for Year 2022	
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	Forecast of Total Quantities of C&D Materials to be Generated from the Contract														
Total Quantity Generated	Broken Concrete (see Note 2)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposal at Alternative Disposal Ground	Imported Fill	Metals	Paper / Cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse				
(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)				
13.2	0	0	0	2.7	10.0	0	0.1	0.1	0.06	0.04	0.20				

Notes: (1) The waste flow table shall also include C&D materials that are specified in the contract to be imported for use at the Site. (2) Broken concrete for recycling into aggregates.

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



Architectural Services Department

Form No. D/OI.03/09.004

Contract No. / Works Order No.: - SS J521

Waste Flow Table (for Capital Works Contracts NOT subject to EMP) 2022 [year]

[to be submitted not later than the 15th of Mar, Jun, Sep & Dec following the reporting Quarter]

(All quantities shall be rounded off to 3 decimal places.)

	Actual Quantities of Inert Construction Waste Generated Quarterly					Actual Quantities of Non-inert Construction Waste Generated Quarterly				
	(a)=(b)+(c)+(d)+(e)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
Quarter ending		Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed of as Public Fill	Metals	Paper/ cardboard packaging	Plastics	Chemical Waste	Others, e.g. general refuse disposed of at Landfill
	Total Quantity	(see Note						(see Note		at Lanum
	Generated	3)						2)		
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in'000m ³)
Jan	0.032	0.000	0.000	0.000	0.032	0.000	0.000	0.000	0.000	0.002
Total	0.032	0.000	0.000	0.000	0.032	0.000	0.000	0.000	0.000	0.002

Notes:

(1) The waste flow table shall also include construction waste that are specified in the Contract to be imported for use at the site.

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

(3) Broken concrete for recycling into aggregates.

(4) If necessary, use the conversion factor: 1 full load of dumping truck being equivalent to 6.5 m³ by volume.



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

No noise-related exceedance was recorded in the reporting period.

No water quality monitoring exceedance was recorded in the reporting period.

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 5, 13, 20 and 26 January 2022. A joint site inspection with IEC was carried out on 5 January 2022.

Environmental deficiencies were observed during weekly site inspection. Key observations during the site inspections and during the reporting period are summarized in **Table 7.1**.

Date	Environmental Observations	Follow-up Status
Follow-up a	ction of last month site observation(s)	
30 Dec 21	 Chemical containers if empty should be removed, if not, should be stored properly with a drip tray. 	1. Rectified.
Site observa	ation(s) in reporting month	
	1. At landing facility location, soil surface should be reformed to avoid flowing of wastewater	1. Rectified.
	into the sea. 2. Silt curtain should be well maintained to	2. Rectified.
05 Jan 22	 Sile cur can broad be wen maintained to ensure no breakage. Oil drums should be put on drip tray. The U- 	3. Rectified.
	channel should be guarded by sand bags to avoid seepage of muddy water.	
13 Jan 22	1. Oil leakage are observed within the silt curtain and should be cleaned immediately.	1. Rectified.
20 Jan 22	1. Nil.	1. <u>N.A</u>
26 Jan 22	 One more silt curtain or other measures should be set to prevent leakage of muddy water during operation. 	1. Rectified.

Table 7.1 Site Observations

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



8. FUTURE KEY ISSUES

Works to be undertaken in the next reporting month are:

Works Description	Location
Contract No. CV/2020/09	
610mm Dia. pipe piling works at landing facility	Landing Facility
Pre-bored socketed H pile at landing facility	Landing Facility
Infill grouting of 610mm dia. pipe piles	Landing Facility
Infill grouting of pre-bored socketed H pile	Landing Facility
Rock excavation at landing facility	Landing Facility
Temporary working platform erection for pre-bored socketed H piles at breakwater area	Breakwater Construction Area
Pre-bored socketed H pile at Breakwater Area	Breakwater Construction Area
Installation of precast seawall & RC pavement at viewing	Viewing Platform
platform	
Construction of skin wall and R.C paving	Lookout Point
Contract No. SS J521	
Installation of structural steel	Viewing platform
Installation of wind turbine's pole	Rest garden
Excavation for UG Drainage, cable ducting, and draw pit	Rest garden
Backfill the existing soil for draw pit	Rest garden
Formwork	Precast staircase
Excavation	UG cable ducting at meter room
Formwork & Rebar fixing	Planter 1

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

- Construction dust and noise generation from excavation and construction works
- Waste generation from construction activities
- Impact on water quality from marine construction works and inland 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
- The dredging rate shall not exceed 100 m³ per hour with a maximum working period of 12 hours per day throughout the construction phase and operation phase.
- Silt curtains should be deployed enclosing the dredging operation. Regular inspection on the silt curtain on the silt curtain condition by the contractor should be carried out.



Referring to EM&A Manual Section 4.6.1.1, the impact noise and water quality 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.

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9. CONCLUSIONS AND RECOMMENDATIONS

This is the 9th Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 January to 31 January 2022, in accordance with the EM&A Manual and the requirement under EP-564/2018.

No noise-related exceedance was recorded in the reporting period.

No water quality monitoring exceedance was recorded in the reporting period.

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.

No environmental complaint was received in the reporting period.

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

Agreed with the EIA prediction in Section 14.2.4.4, with the adoption of good site practice, quiet PME and noise barriers/enclosure, the noise levels at all the representative NSRs complied with the EIAO-TM noise criteria. The comparison between the EM&A data in the reporting month and the most updated noise level prediction as presented in the Noise Mitigation Plan (NMP) is presented in **Table 9.1**.

Table 9.1 Comparison between the EM&A Data in the Reporting Month and the UpdatedNoise Level Predictions

EIA Noise Assessment Point (NAP)	Prediction [dB(A)]	EM&A Monitoring Station	Noise Levels [db(A)]
HPRC V1	62-72	NM1	60.1 - 63.4
HPRE 75B*	55-75	NM2-A	53.1 - 55.7
LYMP	70	NM3	64.2 - 65.8
HPRE 21C	67-75	NM4	66.8 - 67.4

*NM2-A is located between NAPs HPRE 75B and HPRE 81, with lack of data in the NMP, the EIA prediction was used instead.

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



<u>Appendix A</u> <u>Master Programme</u>

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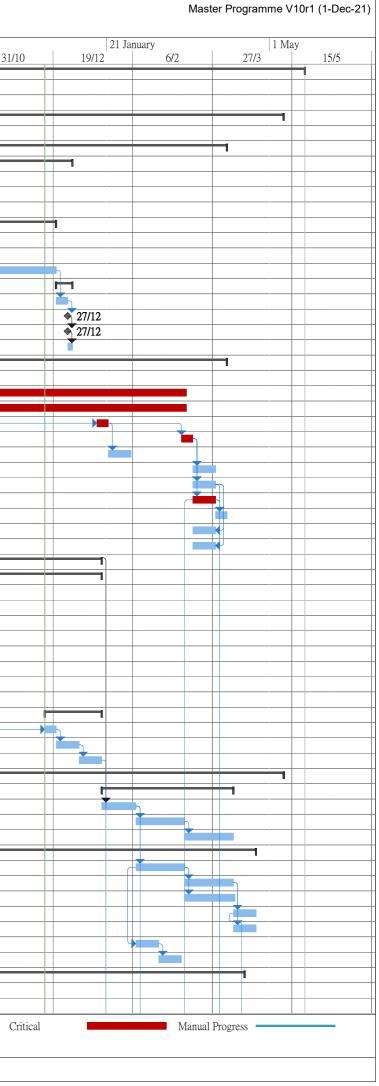
Act ID	Description	Orig Dur	Early Start	Early Finish	Total	JAN	FEB	2022 MAR	APR	MAY
ey Dates		Dur	Start	Finish	Float	03 10 17 24	31 07 14 21	28 07 14 2	APR 1 28 04 11 18	25 02 09 16
Completion D	ates									
K2-1020	Section 3 of the Works	0		28FEB22 *	0			•		
II No. 1 - Preli				LOI LBEE	, v					
Site Establish										
B1-2200	Erection of Project Signboard	7	22FEB22	28FEB22	0*					
ll No. 2 - Land	ling Facility & Seawall	I		1						
Pipe Pile Wal	l de la constante de									
B2-3020	Installation & Grouting of Pipe Piles (86 Nos.)	229	02JUL21 A	15FEB22	-17d					
B2-3030	Construction of Capping Beam & Panel Wall	60	19APR22	17JUN22	-29d				··┼╌┝╌╌┝┰ <mark>╾</mark> ╢	
Socketted Ste	eel H-piles	i 	·		·					
B2-4020	Construction of Main Piles (34 Nos.)	104	09NOV21 A	20FEB22	-48d					
B2-4100	Setup of Pile Testing Equipment	10	12FEB22	21FEB22	105d					
B2-4110	Pile Load Test (1 No.)	4	22FEB22	25FEB22	105d		►			
B2-4200	Mobilization of Drilling Rig	4	21FEB22	24FEB22	17d		►			
B2-4210	Post-construction Proof Drilling (1 No.)	7	25FEB22	03MAR22	17d					
Dredging and	Sloping Seawall									
B2-5100	Rock Excavation (Land-based)	160	10NOV21 A	18APR22	-29d					
B2-5300	Placing of Levelling Stones	45	19APR22	02JUN22	-25d					
Vertical Seaw	all									
B2-6000	Excavation to Formation Level	45	19APR22	02JUN22	142d					
_inking Struct	ure									
B2-6500	Construction of Main Piles (4 Nos.)	21	11MAR22	31MAR22	71d					
l No. 3 - Brea	kwater									
Femporary Wo	orking Platform	1		1						
B3-1210	Installation of Temporary Working Platform	30	31DEC21 A	29JAN22	-31d					
Socketted Ste										
B3-3000	Mobilization of Piling Plant	7	23FEB22	01MAR22	-48d					
B3-3010	Construction of Preliminary Pile	9	02MAR22	10MAR22	-48d					
B3-3020	Construction of Main Piles (34 Nos.)	140	11MAR22	28JUL22	-48d					
	out Point and Viewing Platform									
	Works at Lookout Point									
B4-1300	Casting of Skin Wall	24		20FEB22	1d					
B4-1400	Laying of Concrete Paving	7	21FEB22	27FEB22	1d					
	Works at Viewing Platform									
B4-2200	Excavation to Formation Level	20	19JAN22 A	07FEB22	-20d					
B4-2210	Placing of Levelling Stones	2	08FEB22	09FEB22	-20d					

	Constru		ntract No. C Yue Mun Pu		, Facilit	у								
Act ID		Orig Dur	Early Start	Early Finish	Total Float	JAN 03 10 17	24 3	FEB 31 07 14	21 28 (2022 MAR 07 14 2	21 28	PR 18 2	25 02	MAY 09 16 23
B4-2220	Installation of Seawall Blocks	2	10FEB22	11FEB22	-20d								1	
B4-2221	Precasting of Concrete Backing w/ Granite Facing	39	22DEC21 A	29JAN22	-5d								1	
B4-2230	Placing of Concrete Blinding	2	12FEB22	13FEB22	-20d									
B4-2240	Installation of Concrete Backing	1	14FEB22	14FEB22	-20d			¦ ⊥⊳ ∥						
B4-2250	Cast in-situ Concrete Coping	7	15FEB22	21FEB22	-20d								1	
B4-2260	Installation of Geotextile Filter	3	20FEB22	22FEB22	-20d									
B4-2300	Backfilling behind Concrete Backing & Coping	14	23FEB22	08MAR22	-20d			L		-				
B4-2400	Installation of Enhanced Seawall Panels	14	01MAR22	14MAR22	-19d								1	
B4-2500	Laying of Concrete Paving	7	09MAR22	15MAR22	-20d									
B4-2600	Vacation of Site Area	5	16MAR22	20MAR22	-20d									
Completion	and Handover												1	
Sectional	Completion												1	
C1-1020	Completion of Section 3 of the Works	0		20MAR22	-20d					⊔ ⊷			1	

Start date	15DEC20			Early bar	Date	Revision	Checked	Approved
Must finish date	30APR23			Progress bar	28JAN22		ZYW	TSL
				8				
				Critical bar				
		CONSTRUCTION PROGRAMME	\diamond	Start milestone point				
				Finish milesters maint				
© Primavera S	ystems, Inc.			Finish milestone point				

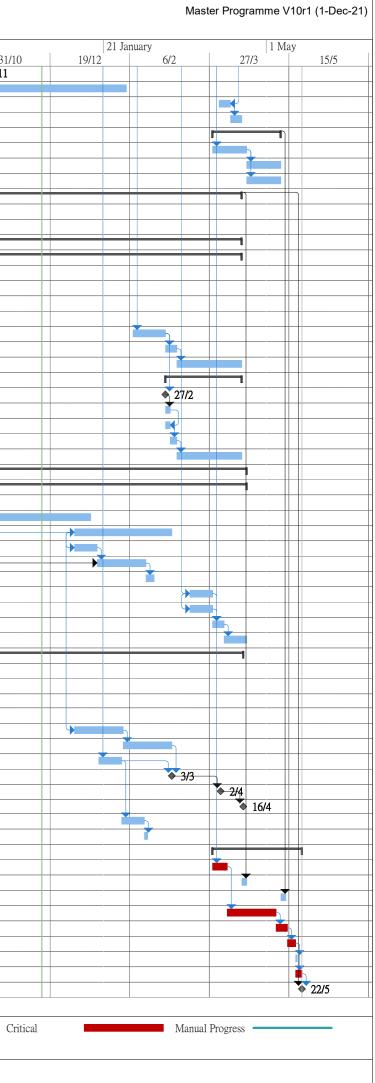
MILESTONE BUILDER ENGINEERING LTD.

	CONTRACT DEDIOD	516 days	23/12/2020	22/5/2022	22/11		10/1	28/2	18/4		25/7	12/9		31/
_	CONTRACT PERIOD Contract commencement	0 days	23/12/2020	23/12/2022	2	2/10								
2	PRELIMINARIES	126 days	23/12/2020 23/12/2020	27/4/2021	2 .	5/12								
7	SITE WORKS	503 days	23/12/2020	9/5/2022								<u> </u>		
28	Demolition	69 days	5/3/2021	12/5/2021										
35	Viewing platform structural works	327 days	13/5/2021	4/4/2022					· ·					
36	Concrete works	232 days	13/5/2021	30/12/2021					· · · · · · · · · · · · · · · · · · ·				<u> </u>	
37	Excavation (open cut)	202 days 21 days	13/5/2021	2/6/2021					•					
38	Compaction and inspection	21 days 21 days	3/6/2021	23/6/2021										
39	Blinding and inspection	30 days	24/6/2021	23/7/2021						+				
40	In-situ concreting / rebar / formwork (with inspection)	150 days	24/7/2021	20/12/2021										
41	Footing RF1 & RF2 (4 stages)	60 days	24/7/2021	21/9/2021							.			
42	Bearing wall	45 days	22/9/2021	5/11/2021										
13	Slab and bridge	45 days	6/11/2021	20/12/2021										
14	Precast concrete staircase	10 days	21/12/2021	30/12/2021										
45	Casting and inspection	7 days	21/12/2021	27/12/2021										
46	IIA inspection (not required)	0 days	27/12/2021	27/12/2021										
47	Delivery to site (not required)	0 days	27/12/2021	27/12/2021										
48	Site installation	3 days	28/12/2021	30/12/2021										
49	Steel and metal works	225 days	23/8/2021	4/4/2022										
50		30 days	23/8/2021	21/9/2021										
51	Materials testing Off site pre-fabrication and inspection	170 days	22/9/2021	10/3/2022										
52		170 days	22/9/2021	10/3/2022										
53	IIA inspection	7 days	15/1/2022	21/1/2022										
54	Delivery to site - 1st batch Delivery to site - 2nd batch	7 days 7 days	8/3/2022	14/3/2022										
55	Archhitectural features Site installation - 1st batch	14 days	22/1/2022	4/2/2022										
56	Archhitectural features Site installation - 1st batch		15/3/2022	28/3/2022										
57		14 days	15/3/2022	28/3/2022										
58	Type 2 Metal railing on pavement	14 days 14 days	15/3/2022	28/3/2022					8					
59	Metal railing on viewing platform		29/3/2022	4/4/2022										
50	On-site weld testing Aluminum fins	7 days	15/3/2022	28/3/2022										
50	Peforated sheet	14 days 14 days	15/3/2022	28/3/2022										
52		3	31/8/2021	17/1/2022										
53	New planter structural works Concrete works	140 days	31/8/2021	17/1/2022										
55 54		140 days 18 days	31/8/2021	17/9/2021										
55	Planter 3 & 4 Excavation	5 days	31/8/2021	4/9/2021										
56	Blinding and inspection	3 days	5/9/2021	7/9/2021										
57 57	Concreting / rebar / formwork (with inspection)	10 days	8/9/2021	17/9/2021										
58	Planter 2	35 days	31/8/2021	4/10/2021										
59	Excavation	7 days	31/8/2021	6/9/2021										
70			7/9/2021	20/9/2021										
70	Blinding and inspection Concreting / rebar / formwork (with inspection)	14 days 14 days	21/9/2021	4/10/2021					8					
72		35 days	14/12/2021	17/1/2022										
73	Planter 1 Excavation		14/12/2021	20/12/2022										
74		7 days	21/12/2021	3/1/2022										
75	Blinding and inspection	14 days	4/1/2022	17/1/2022										
76	Concreting / rebar / formwork (with inspection) Finishes and misc	14 days	27/8/2021	9/5/2022										
77		256 days												
78	New Planter Finishing	81 days	18/1/2022	8/4/2022 7/2/2022										
79	Floor and wall plastering	21 days	18/1/2022 8/2/2022	9/3/2022										
30	Washed granolithic finishes	30 days												
	Artificial granite finishes	30 days	10/3/2022	8/4/2022										
31	Existing rest garden Finishing	239 days	27/8/2021	22/4/2022										
32	Floor plastering	30 days	8/2/2022	9/3/2022										
33	Washed granolithic finishes	30 days	10/3/2022	8/4/2022										
34	Artificial granite finishes	31 days	10/3/2022	9/4/2022										
35	Safety mat	14 days	9/4/2022	22/4/2022										
36	New pergola roofing	14 days	9/4/2022	22/4/2022										
37	Waterproofing to existing meter room	14 days	8/2/2022	21/2/2022										
38	Meter room Wall plastering	14 days	22/2/2022	7/3/2022										
39	Fitness equipment	232 days	27/8/2021	15/4/2022								10		
0	Invite quotation	0 days	27/8/2021	27/8/2021							27/	8		
91	Selection / confirmation of quotation	71 days	27/8/2021	5/11/2021										



MILESTONE BUILDER ENGINEERING LTD. Contract : SS J521 - Lei Yue Mun Waterfront Enhancement Project

	ik Name	Duration	Start	Finish	11 Dec 22/11		0/1	21 Ma 28/2	18/4	1 July 6/6	25/7	12/9	October 31/1
2	Subcontract awarded	0 days	5/11/2021	5/11/2021				2012	10/1	0,0	2511		\$ 5/11
3	Manufacture and delivery of materials	90 days	6/11/2021	3/2/2022									•
)4	Concrete footing	7 days	2/4/2022	9/4/2022									
95	Installation	7 days	9/4/2022	15/4/2022									
96	Viewing platform Finishing	42 days	29/3/2022	9/5/2022									
97	Floor & wall plastering	21 days	29/3/2022	18/4/2022									
98	Washed granolithic finishes	21 days	19/4/2022	9/5/2022									
99	Artificial granite finishes	21 days	19/4/2022	9/5/2022									
100	Landscape works	479 days	23/12/2020	15/4/2022							+		
101	Tree plan material and sampling submission/ approval	60 days	23/12/2020	20/2/2021	*		h						
102	Tree & shrub selection	60 days	21/2/2021	21/4/2021									
103	Site works	376 days	5/4/2021	15/4/2022							+		
104	Inside site boundary	376 days	5/4/2021	15/4/2022							+	+	
105	Coordination with LCSD	15 days	5/4/2021	19/4/2021									
106	Root Prunning	10 days	20/4/2021	29/4/2021									
107	Crown Prunning	10 days	30/4/2021	9/5/2021				· · · · · ·					
108	Lifting of trees and transit to outside site boundary	1 day	10/5/2021	10/5/2021					+				
109	Drain Laying	20 days	8/2/2022	27/2/2022									
110	Import soil and backfill	7 days	28/2/2022	6/3/2022									
111	Shrub & groundcover planting	40 days	7/3/2022	15/4/2022									
112	Outside site boundary	47 days	27/2/2022	15/4/2022									
113	Take possession of LCSD planters	0 days	27/2/2022	27/2/2022									
114	Bamboo stakes and protection	3 days	28/2/2022	2/3/2022									
115	Temporary fence off of existing planter	3 days	28/2/2022	2/3/2022									
116	Remove existing shrubs	4 days	3/3/2022	6/3/2022									
117	Shrub & groundcover planting	40 days	7/3/2022	15/4/2022									
118	BS installation	452 days	22/1/2021	18/4/2022									
119	Electrical Installation	320 days	3/6/2021	18/4/2022						-			
120	TD existing lamp post	10 days	3/6/2021	12/6/2021									
120	Construct u/g drain pipes and manhole	90 days	15/10/2021	12/0/2021									
121		60 days	3/1/2022	3/3/2022									
122	Construct u/g cable duct and draw pit		3/1/2022	16/1/2022				· · · · · ·					
123	Construct footing for tubine / lamp post Conduit & wiring	14 days	17/1/2022	15/2/2022									
124		30 days 5 days	16/2/2022	20/2/2022									
125	Install the relocated lamp post Light fitting installation	-	15/3/2022	28/3/2022									
120	Install wind turbine	14 days 14 days	15/3/2022	28/3/2022									
127		7 days	29/3/2022	4/4/2022									
120	Earting and lightning	-		18/4/2022									
130	T&C	14 days	5/4/2022										
130	Plumbing installation	450 days	22/1/2021	16/4/2022									
	Submission/ approval of plumbing materials	35 days	22/1/2021	25/2/2021				05/0					
132	Submit WWO46 Part 1 & 2	0 days	25/2/2021	25/2/2021			•	25/2	10				
133 134	Receive WWO46 Part 3 from WSD (30 days after Part1/2 submitted)	0 days	27/3/2021	27/3/2021				• 27	73				
134	TD existing plumbing facilities	10 days	3/6/2021	12/6/2021									
	Trenching for water pipe laying	30 days	3/1/2022	1/2/2022									
136	Water pipe laying, u/g and above ground	30 days	2/2/2022	3/3/2022									
137	Irrigation point installation	14 days	18/1/2022	31/1/2022									
138	Submit WWO46 Part 4 (u/g and above ground)	0 days	3/3/2022	3/3/2022									
139	WSD inspection (30 days from Part 4 submitted)	0 days	2/4/2022	2/4/2022									
140	Receive WWO46 Part 5 from WSD (14 days after satisfactory inspec	0 days	16/4/2022	16/4/2022		8							
141	T&C	14 days	1/2/2022	14/2/2022									
142	Connection to existing water services	2 days	15/2/2022	16/2/2022									
	COMPLETION OF WORKS	55 days	29/3/2022	22/5/2022									
144	Removal of metal hoarding	9 days	29/3/2022	6/4/2022									
145	General site cleaning - within & outside site boundary	3 days	16/4/2022	18/4/2022									
146	General site cleaning - oyster beach	3 days	10/5/2022	12/5/2022									
47	SCCU inspection / approval	30 days	7/4/2022	6/5/2022									
148	Handover inspection with the LCSD	7 days	7/5/2022	13/5/2022									
149	Final cleaning & defect rectification	5 days	14/5/2022	18/5/2022									
150	Removal of tree protection	1 day	19/5/2022	19/5/2022									
	Removal of water barrier	4 days	19/5/2022	22/5/2022									
151 152	Handover to the LCSD	0 days	22/5/2022	22/5/2022									





<u>Appendix B</u> <u>Summary of Implementation Status of</u> <u>Environmental Mitigation</u>

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Appendix B IMPLEMENTATION SCHEDULE OF THE PROPOSED MITIGATION MEASURES

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	Imple St	menta tages		Relevant Legislation and
	Mitigation Measures		Agent	Des	С	0	Guidelines
S3.7.1.1	 Sufficient dust suppression measures as stipulated under the Air Pollution Control (Construction Dust) Regulation (Cap 311R) and good site practices should be properly implemented in order to minimise the construction dust generated. The measures include the followings: Use of regular watering, to reduce dust emissions from exposed site surfaces and unpaved roads particularly during dry weather; Use of frequent watering of particular dusty construction areas close to ASRs; Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering should be applied to aggregate fines; Open temporary stockpiles should be avoided or covered. Prevent placing dusty material storage piles near ASRs; Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations; Establishment and use of vehicle wheel and body washing facilities at the exit point of the site; Imposition of speed control for vehicles on unpaved site roads. 8 km/hr is the recommended limit; Routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs. 	Works sites / throughout the construction period	Contractor				 Air Pollution Control (Amendment) Ordinance 2013 (APCO) (Cap 311) Technical Memorandum on the Environmental Impact Assessment Process (EIAO- TM) Air Pollution Control (Construction Dust) Regulation (Cap 311R) Air Pollution Control (Non- road Mobile Machinery) (Emission) Regulation.

Table B.1 Implementation Schedule for Air Quality Mitigation Measures

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	Implementation Stages*			Relevant Legislation and
	Mitigation Measures		Agent	Des	С	0	Guidelines
S3.7.1.2	 Guidelines stipulated in EPD's Recommended Pollution Control Clauses for Construction Contracts should also be incorporated in the contract documents to abate dust impacts. The clauses include: The Contractor shall observe and comply with the Air Pollution Control Ordinance and its subsidiary regulations, particularly the Air Pollution Control (Open Burning) Regulation, Air Pollution Control (Construction Dust) Regulation and Air Pollution (Smoke) Regulation. The Contractor shall undertake at all times to prevent dust nuisance and smoke as a result of the construction activities. The Contractor shall ensure that there will be adequate water supply / storage for dust suppression. The Contractor shall devise, arrange methods of working and carrying out the works in such a manner so as to minimise dust impacts on the surrounding environment, and shall provide experienced personnel with suitable training to ensure that these methods are implemented. Before the commencement of any work, the Contractor may require to submit the methods of working, plant, equipment and air pollution control system to be used on the site for the Engineer inspection and approval. 	Works sites / throughout the construction period	Contractor				EPD's Recommended Pollution Control Clauses for Construction Contracts

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	Implementatio Stages*			Relevant Legislation and
	Mitigation Measures	_	Agent	Des	С	0	Guidelines
S3.7.3.1	Loading of the dredged sediment to the barge should be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water. Any dredged sediment should be stored in enclosed tanks or properly covered as far as practicable to minimise its exposed area during its temporary storage and should be placed as far away from the identified ASRs as practically possible. Dredging rate should be controlled carefully. The dredged sediment will be delivered off-site for disposal every day to avoid storing at the barge overnight. Dredged sediment placed on marine vessel for disposal should also be properly covered during transportation. Dredging activities should be conducted during non-summer season as far as possible.				\checkmark	\checkmark	 APCO EIAO-TM Air Pollution Control (Construction Dust) Regulation (Cap 311R) Air Pollution Control (Non- road Mobile Machinery) (Emission) Regulation.

Table B.2 Implementation Schedule for Noise Mitigation Measures

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	Implementation Stages*			Relevant Legislation and
	Mitigation Measures		Agent	Des	С	0	Guidelines
S4.8.1.3	 Good Site Practice Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program; Silencers or mufflers on construction equipment should be utilised and should be properly maintained during the construction program; Mobile plant, if any, should be sited as far from NSRs as possible; Machines and plant (such as trucks) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; and Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. 	Work sites /during construction stage	Contractor		~		 Noise Control Ordinance (NCO) EIAO-TM Technical Memorandum on Noise from Construction Work other than Percussive Piling (GW-TM) Recommended Pollution Control Clauses for Construction Contracts
S4.8.1.4	The "Recommended Pollution Control Clauses for Construction Contracts" published by the EPD should be adopted in the Contract Specification for the Contractors to follow and implement relevant measures and good site practices in minimising noise impact.	Works sites / during construction stage	Contractor		V		Ditto

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and
	Mitigation Measures			Des	С	0	Guidelines
S4.8.1.5, S4.8.1.6 & Table 4.5	Quiet Powered Mechanical Equipment Use of quiet plant which should be made reference to the Powered Mechanical Equipment (PME) listed in the Technical Memorandum or the Quality Powered Mechanical Equipment (QPME) / other commonly used PME listed in Environmental Protection Department (EPD) web pages as far as possible which includes the Sound Power Level (SWLs) for specific quiet PME.	Work sites /during construction stage	Contractor		V		Ditto
S4.8.1.7 & S4.8.1.8	Noise Barriers and Noise Enclosure The Contractor will be responsible for design of the movable noise barrier with due consideration given to the size of the PME and the requirement of intercepting the line of sight between the NSRs and PME. The movable noise barrier should have a minimum surface density of 10 kg/m ² and it should have no openings or gaps. Portable noise enclosure should be used, as far as practicable, to mitigate the noise impacts arising from the use of handheld breaker, air compressor, compactor (vibratory) and drill/grinder, hand-held electric at some work areas (i.e. works areas LP3, LP4, LP5 and ST) where locate very close to the NSRs.	Work sites /during construction stage	Contractor		~		Ditto

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	Imple S [.]	menta tages		Relevant Legislation and
	Mitigation Measures		Agent	Des	С	0	Guidelines
S4.8.1.10	The streetscape improvement works should not be carried out within 10 m from Jockey Club Lei Yue Mun Plus (LYMP) during the time when LYMP is used for any noise sensitive purposes, such as holding courses or workshops. In addition, the beautification works at work areas LP1 should not be conducted during examination period. The Contractor should liaise with the operator of LYMP to obtain the updated schedule of courses, workshops and examination at the time of conducting the relevant construction works.	Work sites /during construction stage	Contractor		V		Ditto
S4.8.2.6	Since conducting sewerage construction works and streetscape improvement works may involve repeated construction works at the same location, the ArchSD would closely liaise with DSD and their contractors in planning the interfacing works to minimise duplicated/concurrent construction works, including exploring the possibility of entrusting the streetscape improvement works to DSD, so as to minimise nuisance to nearby sensitive receivers such as residents, shops, restaurants and educational institution as far as practicable.	Work sites / during construction stage	Project Proponent / Contractor		~		Ditto
	Before commencing noisy construction works, such as road breaking works, in the vicinity of the NSRs, the Contractor would closely liaise with the affected NSRs to keep them informed of the works and should strive to complete the works in the shortest time possible. To minimise nuisance to nearby educational institution and seafood restaurants, noisy construction works would not						

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	Implementati Stages*			Relevant Legislation and
	Mitigation Measures	•	Agent	Des	С	0	Guidelines
	be carried out during the examination period of the educational institution and the peak business hour of the restaurant.						

Table B.3 Implementation Schedule for Water Quality Mitigation Measures

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and
				Des	С	0	Guidelines
S5.7.1.1 & S5.7.2.13	The dredging operation would be properly scheduled such that no dredging works will be carried out during the period of the Annual Cross Harbour Swim Race to be held.	Works sites / during dredging in construction and operation stages	Contractor for dredging		V	V	N/A
S5.8.1.1	 Good Site Practices for Dredging All vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessels movement or propeller wash; All barges / dredgers should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; Excess material shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved; Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds; Construction activities should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation. 	Works sites / during dredging in construction and operation stages	Contractor for Dredging		V	V	 EIAO-TM EIAO WPCO Waste Disposal Ordinance (WDO) Technical Memorandum on Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters (TM-DSS)

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	-	ement Stages		Relevant Legislation and
_	Mitigation Measures	3	Agent	Des	С	0	Guidelines
S5.8.1.2	Only one closed grab should be used any time for the dredging works during both capital and maintenance dredging to minimise release of sediment and other contaminants.	Works sites / during dredging in construction and operation stages	Contractor for dredging		1	V	 Technical Memorandum on the Environmental Impact Assessment Process (EIAO- TM) Water Pollution Control Ordinance (WPCO)
S5.8.1.2	The dredging rate shall not exceed 100 m ³ per hour with a maximum working period of 12 hours per day throughout the construction phase and operation phase.	Works sites / during dredging in the construction and operation stages	Contractor for dredging		V	V	◆ EIAO-TM◆ WPCO
S5.8.1.3	Silt curtains should be deployed enclosing the dredging, filling operation and seawall modification works. Under Section 10.6.31 of the Contaminated Spoil Management Study Final Report, silt curtains are defined as screens that extend over the full water depth in the dredging area to confine most of the suspended sediments. This is equivalent to the silt curtains to be adopted for the dredging, filling and seawall modification works in LYM waterfront, which involve the use of impervious sheets or filter fabrics extending over the full water depth. Regular inspection on the silt curtain condition by the contractor should be carried out to ensure the silt curtains are deployed properly and to maintain the performance of the silt curtains throughout the construction period.	Works sites / during dredging, filling operation and seawall modification in construction stage and maintenance dredging in operation stage	Contractor for dredging and seawall modification works		V	V	 EIAO-TM WPCO

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	-	ement Stages		Relevant Legislation and
	Mitigation Measures	C C	Agent	Des	С	0	Guidelines
S5.8.1.5	Seawall modification works should be undertaken during low tide, when the water level is low.	Lookout point 1, 5 and viewing platform / during construction stage	Contractor for seawall modification works		V		◆ EIAO-TM◆ WPCO
S5.8.2.1 – S5.8.2.2	 Control of potential water quality impact arising from the general construction works shall be achieved based on the following principles: Minimisation of surface run-off; Prevention or minimisation of the likelihood of the identified pollutants being in contact with rain or run-off or adjacent marine waters; and Measures to abate pollutants at source. The Contractor shall apply for a discharge license under the WPCO and the discharge shall comply with the terms and conditions of the license. The Contractor shall also devise an Emergency Contingency Plan for accidental leakage or spillage of chemicals during construction phase and maintenance dredging. It should detail the communication line between Contractor, relevant government and stakeholders, remediation plan for containing and cleaning of leakage, evaluation and improvement work and determine follow-up action, such as monitoring. 	Works sites / during construction stage and maintenance dredging in operation stage	Contractor		V	V	 EIAO-TM WPCO
\$5.8.2.3	 Site Runoff and General Activities High loading of SS in site run-off should be prevented through proper site management by the contractor; Sand and silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly by the 	All works sites / during construction stage	Contractor		V		 ProPECCPN 1/94 Construction Site Drainage WPCO

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	-	ement Stages		Relevant Legislation and
	Mitigation Measures		Agent	Des	С	0	Guidelines
	contractor, and at the onset of and after each rainstorm to ensure that these facilities are functioning properly;						
	• The drilling operation can be fully controlled by the workers, the volume of sediment laden water and the material stockpiled in the temporary storage steel tank can be anticipated such that spillage can be prevented. The tank should be kept within the temporary working platform with surrounding concrete bund walls. The tanks should be removed to other site area located far away from the river						
	 immediately after filling up and within the same day; Stockpiles should be located away from any watercourses and the seafront; 						
	 Plant workshop / maintenance areas should be bunded on a hard standing. Sediment traps and oil interceptors should be provided at appropriate locations; 						
	 Works should be programmed to minimise soil excavation works where practicable during the rainy days; 						
	 Vehicle wheel washing facilities should be provided at the site exit such that mud, debris, etc. attached to the vehicle wheels or body can be washed off before the vehicle leaves the work site; 						
	 Section of the road between the wheel washing bay and the public road will be paved to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains; and 						
	 Sufficient chemical toilets should be provided in the works areas in the proximity of the riverside for the sewage generated by the workforce. A licensed waste collector should be deployed to clean the 						

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	-	ement Stages		Relevant Legislation and
	Mitigation Measures		Agent	Des	С	0	Guidelines
	chemical toilets on a regular basis. Any sewage or wastewater discharge into the surrounding environment should not be allowed. Any chemical toilets should be located away from the river.						
S5.8.3.2 & S5.8.3.3	 Design Measures Exposed surface shall be avoided within the proposed development to minimise soil erosion. Development site shall be either hard paved or covered by landscaping area where appropriate to reduce soil erosion. The existing marine water in adjacent to the Project sites will be retained to maintain the original flow path. The drainage system will be designed to avoid any case of flooding based on the 1 in 50 year return period. 	Works sites / during operation stage	Project Proponent / Operator	V		~	 EIAO-TM WPCO WDO
S5.8.3.4 to S5.8.3.6	 Devices / Facilities to Control Pollution Screening facilities such as standard gully grating and trash grille, with spacing which is capable of screening off large substances such as fallen leaves and rubbish should be provided at the inlet of drainage system. Road gullies with standard design and silt traps and oil interceptors should be incorporated during the detailed design to remove particles present in storm water runoff. Subject to detailed design, standard manholes with desilting opening / sand trap designed for first flush flow. (capable, of providing, at least 5, minuter) 	Works sites/ during operation stage	Project Proponent / Operator	V		V	 EIAO-TM WPCO WDO
	detailed design to remove particles present in storm water runoff.Subject to detailed design, standard manholes with						

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and
	Mitigation Measures			Des	С	0	Guidelines
	The feasibility of alternative measure such as Vortex grit separator would also be considered during the detailed design stage.						
S5.8.3.7 to S5.8.3.8	 Administrative Measures Good management measures such as regular cleaning and sweeping of road surface / open areas is suggested. The road surface / open area cleaning should also be carried out prior to occurrence of rainstorm. Manholes, as well as storm water gullies, ditches provided among the development areas should be regularly inspected and cleaned (e.g. monthly). Additional inspection and cleansing should be carried out before forecast heavy rainfall. 	Works sites/ during operation stage	The Operator			~	 ◆ EIAO-TM ◆ WPCO

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	Implementation Stages*			Relevant Legislation and
	Mitigation Measures		Agent	Des	С	0	Guidelines
6.5.1.6	The Project Proponent should closely coordinate with DSD in monitoring the programme and liaise with DSD to formulate mitigation measures including but not limit to installation of chemical toilets near the restaurants to cater for the additional sewage arising from the increased tourist after commencement of the Lei Yue Mun Waterfront Enhancement project and before the commissioning of the proposed sewerage works under DSD project should any programme gap is identified in the future.	Works sites/ During operation stage	Project Proponent / Operator			V	◆ EIAO-TM

Table B.4 Implementation Schedule for Sewerage and Sewage Mitigation Measures

Table B.5 Implementation Schedule for Waste Management Measures

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	Imple S	menta tages		Relevant Legislation and
	Mitigation Measures		Agent	Des	С	0	Guidelines
S7.7.2.1 – S7.7.2.2	 Waste Management Hierarchy The waste management hierarchy should be applied: Avoidance and minimisation of waste generation; Reuse of materials as far as practicable; Recovery and recycling of residual materials where possible; and Treatment and disposal of waste according to relevant laws, guidelines and good practices 	Works sites/ during design and construction stages	Project Proponent/ Contractor	V	V		 EIAO-TM ETWB TCW No. 19/2005
	Recommendations of good site practices and waste reduction measures should be stated in order to achieve avoidance and minimisation of waste generation in the waste management hierarchy. An Environmental Management Plan (EMP) and trip-ticket system are recommended for monitoring management of waste. Specific measures targeting the mitigation of impacts in works areas and the transportation of waste off-site should be provided to minimise the potential impacts to the surrounding environment.						
S7.7.3.1	 Good Site Practices Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site. Training of site personnel in proper waste management and chemical wastes handling procedures. 	Works sites/ during design and construction stages	Project Proponent/ Contractor	V	V		 EIAO-TM ETWB TCW No. 19/2005

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	Imple S	ment tages		Legislation and
	Mitigation Measures		Agent	Des	С	0	Guidelines
	 Provision of sufficient waste disposal points and regular collection for disposal. Adoption of appropriate measures to minimise windblown litter and dust during handling, transportation and disposal of waste. Preparation of a WMP in accordance with the ETWB TCW No. 19/2005 Environmental Management on Construction Sites and submitted it to the Engineer for approval. 						
S7.7.4.1	 Waste Reduction Measures Segregate and store different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal. Adopt proper storage and site practices to minimise the potential for damage to, and contamination of, construction materials. Plan the delivery and stock of construction materials carefully to minimise the amount of waste generated; Sort out demolition debris and excavated materials from demolition works to recover reusable / recyclable portions (i.e. soil, rock, broken concrete, etc.). Maximise the use of reusable steel formwork to reduce the amount of C&D materials. Minimise over ordering of concrete, mortars and cement grout by doing careful check before ordering. Adopt pre-cast construction method instead of cast-in-situ method for construction of concrete structure as far as possible. 	Works sites / during design and construction stages	Project Proponent/ Contractor	V	V		◆ EIAO-TM ◆ WDO

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and
				Des	С	0	Guidelines
S7.7.5.1 – 7.7.5.2	 Storage, Collection and Transportation of Waste Waste, such as soil, should be handled and stored well to ensure secure containment, thus minimising the potential of pollution; Maintain and clean storage areas routinely; Stockpiling area should be provided with covers and water spraying system to prevent materials from being wind-blown or washed away; and Different locations should be designated to stockpile each materials to enhance reuse. Waste hauler with appropriate permits should be employed by the Contractor for the collection and transportation of waste from works areas to respective disposal outlets. The following recommendation should be implemented to minimise the impacts: Remove waste in timely manner. Employ the trucks with cover or enclosed containers for waste disposal permits from the appropriate authorities. Dispose of waste at licensed waste disposal facilities. 	Works sites / during construction stage	Contractor		V		◆ EIAO-TM ◆ WDO

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	Imple S [.]	ment tages		Relevant Legislation and
	Mitigation Measures		Agent	Des	С	0	Guidelines
S7.7.6.1 – 7.7.6.10 & S7.7.13.1	 Dredged Marine Sediments The sediment should be dredged, handled, transported and disposed of in a manner that would minimise adverse environmental impacts. Requirements of the Air Pollution Ordinance (Construction Dust) Regulation, where relevant, shall be adhered to during dredging, transportation and disposal of the sediment. To minimise the exposure to contaminated materials, workers shall, if necessary, wear appropriate personal protective equipment (PPE) when handling contaminated sediments. Adequate washing and cleaning facilities shall also be provided on site. For off-site disposal, the basic requirements and procedures specified under ETWB TCW No. 34/2002 shall be followed. The rationale for sediment removal/disposal should be submitted to MFC/CEDD for agreement. For site allocation and application of marine dumping permit, separate Sediment Sampling and Testing Plan (SSTP) may need to be submitted to EPD for agreement under the Dumping at Sea Ordinance (DASO). Additional SI works, based on the SSTP, may need to be carried out in order to confirm the disposal arrangements of the dredged sediment. A Sediment Quality Report (SQR), reporting the chemical and 	Works sites / during dredging, handling, transportation and disposal of sediment in construction stage and maintenance dredging in operation stages	Project Proponent / Contractor	Des	C √	○ √	Guidelines • DASO • ETWB TCW No. 34/2002 • APCO • WPCO
	Quality Report (SQR), reporting the chemical and biological screening results and the estimated quantities of sediment under different disposal options, may then need to be submitted to EPD for agreement under DASO.						

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and
				Des	С	0	Guidelines
	 To ensure disposal space is allocated for the Project, the Project Proponent should be responsible for obtaining agreement from MFC on the allocation of the disposal site. The contractor(s), on the other hand, should be responsible for the application of the marine dumping permit under DASO from EPD for the sediment disposal. The dredged sediments are expected to be loaded onto the barge and transported to the designated disposal sites allocated by MFC. The dredged sediment would be disposed of according to its determined disposal options and ETWB TCW No. 34/2002. Stockpiling of contaminated sediments should be avoided as far as possible. If temporary stockpiling of contaminated sediments is necessary, the dredged sediment should be covered by tarpaulin and the area should be placed within earth bunds or sand bags to prevent leachate from entering the ground, nearby drains and surrounding water bodies. The stockpiling areas should be provided for stockpiling of contaminated and uncontaminated materials. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO). 						

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*			Relevant Legislation and
			Agent	Des	С	0	Guidelines
	 In order to minimise the potential odour / dust emissions during dredging and transportation of the sediment, the dredged sediments shall be wetted during dredging / material handling and shall be properly covered when placed on trucks or barges. Loading of the dredged sediment to the barge shall be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water. The barge transporting the sediments to the designated disposal sites shall be equipped with tight fitting seals to prevent leakage and shall not be filled to a level that would cause overflow of materials or laden water during loading or transportation. In addition, monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic selfmonitoring devices as specified under DASO authority. 						
S7.7.7.1 – 7.7.7.4	 Construction and Demolition (C&D) Materials Implement a trip-ticket system to monitor and document the disposal of C&D waste C&D materials generated from dredging, lookout points excavation works, and landing facility and carpshaped platform construction works should be segregated from other waste to avoid contamination and ensure acceptability at the public fill reception facilities or reclamation sites. C&D materials should be sorted on-site into inert and non-inert materials. 	Works sites / during construction stage	Contractor		~		 WDO DEVB TCW No. 06/2010 ETWB TCW 33/2002 ETWB TCW 19/2005

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Imple St	ment tages		Relevant Legislation and
				Des	С	0	Guidelines
	 Non-inert C&D waste, such as wood, plastic, steel and other metals should be reused or recycled and, as a last resort, disposed to landfill. A suitable area should be designated within the site for temporary stockpiling of C&D materials and to facilitate the sorting process. Within the stock pile areas, the following measures should be taken to control potential environmental impacts or nuisance: Waste such as soil should be handled and stored well to ensure secure containment; Covering materials during heavy rainfall; Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; Locating stockpiles to minimise potential visual impacts; and Minimising land intake of stockpile area as far as possible. A system should be devised for on-site sorting of C&D materials. This system should include the identification of the source of generation, estimated quantity of waste generated, arrangement for on-site sorting and / or collection by recycling contractors and frequency of removal off-site. All dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet. 						

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation Agent	Imple S [.]	ment tages		Relevant Legislation and
	Mitigation Measures			Des	С	0	Guidelines
S7.7.8.1	 Chemical Waste If chemical waste is produced at the construction site, the Contractor will be required to register with the EPD as a chemical waste producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Chemical waste should be stored in appropriate containers and collected by a licensed chemical waste collector. Chemical waste (e.g. spent lubricant oil) should be disposed of at either the CWTC, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. 	Works sites / during construction stage	Contractor		V		 WDO Code of Practice on the Packaging, Labelling and Storage of Chemical Waste A Guide to the Chemical Waste Control Scheme
S7.7.9.1 & S7.7.11.1	 General Refuse General refuse should be stored in enclosed bins separately from construction and chemical waste. Recycling bins should also be placed to encourage recycling. Enclosed and covered areas should be provided preferably for general refuse collection. Routine cleaning should be also be provided to keep the areas clean. A reputable waste collector should be employed to remove general refuse on a daily basis 	Works sites / during construction and operation stages	Project Proponent / Contractor		V	V	◆ WDO
S7.7.10.1 & S7.7.10.2	 Floating Refuse Floating refuse should be collected and removed at regular intervals on a daily basis to keep water within the site boundary and the neighbouring water free from rubbish. In case of floating refuse is identified, a waste 	Works sites / during construction stage	Contractor		V		◆ WDO

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and
	Mitigation Measures			Des	С	0	Guidelines
	 collection vessel is needed to remove the floating materials and eventually store and dispose of together with the general refuse, after separating the recyclables for recycling, at North East New Territories Landfill (NENT) via Kwun Tong Road and Fanling Highway. Provision of general refuse bins on site and education programme to construction workforce to minimise the potential of marine contamination. 						
S7.7.12.1	 Sufficient general refuse and recycling bins should be provided respectively. Meanwhile, the general refuse collection areas should be enclosed and covered properly to avoid potential losses of waste to the adjacent watercourses. 	Project site / during operation stage	Project Proponent				◆ WDO
S7.7.12.2	 Refuse scavenging and collection service will be provided by the Contractor of Marine Department (MD) under existing Contract. 	Project site / during operation stage	MD				◆ WDO

Table B.6 Implementation Schedule for Land Contamination Mitigation Measures

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and
	Miligation Measures	, ining	Agent	Des	С	0	Guidelines
S8.7.1.1	No mitigation measure is required.	N/A	N/A				N/A

Table B.7 Implementation Schedule for Ecology Mitigation Measures

EIA Ref.	Environmental Protection Measures /	Location /	Implementation	Imple S ⁻	ment tages		Relevant Legislation and
	Mitigation Measures	Timing	Agent	Des	С	0	Guidelines
S9.8.1.2	 Avoidance Avoided encroaching on recognized sites of conservation importance (i.e. the CPA comprising the oyster shell beach, rocky outcrop with the lighthouse to the south of LYM Village). Avoided direct impact on area with relatively higher abundance of coral colonies (i.e. REA 2). Avoided direct impact on natural terrestrial habitats, (e.g. mixed woodland, natural watercourses) and associated fauna and flora. 	Works sites / during design, construction and operation stages	Project Proponent	V	V	V	◆ EIAO-TM
S9.8.1.3 – S9.8.1.4	 Minimisation of Direct Loss of Coral A detailed coral mapping should be undertaken before the commencement of the works A detailed Coral Mitigation Plan should be prepared prior to the implementation of mitigation measures. Suitable recipient site(s) should be identified. Description of methodology including translocation (e.g. pre-translocation survey, identification / proposal of coral recipient site(s)) and/or other best practicable mitigation measures, and post-mitigation monitoring programme should be prepared with reference to recently approved EIA and subject to comment by the AFCD before commencement of the coral mitigation. All the coral mitigation exercises should be conducted by experienced marine ecologist(s) with at least 5 years relevant experience. 	Works sites / prior to construction stage	Contractor		\checkmark		◆ Cap. 586
S9.8.1.3	• During operation phase, coral survey will be carried out to review and update the conditions of corals in the dredging area and its vicinity prior to each	Dredging area and its vicinity / prior to each	Contractor			\checkmark	 ◆ Cap. 586

EIA Ref.	Environmental Protection Measures /	Location /	Implementation	Imple S ⁻	ment tages		Relevant Legislation and
_	Mitigation Measures	Timing	Agent	Des	С	0	Guidelines
	maintenance dredging. Subject to the findings of the coral survey, the impact on corals due to maintenance dredging will be reviewed and mitigation measures will be proposed as necessary.	maintenance dredging in operation stage					
S9.8.1.5	 Minimisation of Water Quality Impact Adoption of the mitigation measures recommended in water quality impact assessment during capital and maintenance dredging operations, including use of closed grab, restriction of dredging production rate (no more than 100m³ per hour) and deployment of silt curtains. 	Works site / during dredging operation in the construction and maintenance dredging stages	Contractors		\checkmark	V	 ◆ EIAO-TM ◆ WPCO ◆
S9.8.1.6	 To minimise the contamination of wastewater discharge, accidental chemical spillage and construction site run-off to the receiving water bodies, mitigation measures recommended in water quality impact assessment should be adopted to control construction site runoff and drainage form the work areas, and to prevent runoff and drainage water with high levels of suspended solids from entering the nearby local stormwater drainage system and water bodies directly. The mitigation measures include: The good site practices outlined in ProPECC PN 1/94 "Construction Site Drainage" should be strictly followed to minimise surface runoff. Surface run-off from construction sites should be discharged into storm drains via adequately designed sand / silt removal facilities such as sand traps, silt traps and sedimentation basins; Open stockpiles of construction materials (e.g. aggregates, sand and fill material) on sites should be covered with tarpaulin or similar fabric during 	Works site / during the construction stage	Contractors		V		 WPCO ProPECC PN 1/94

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and
			, igoni	Des	С	0	Guidelines
S9.8.1.7	 rainstorms; Good construction and site management practices should be observed to ensure that litter, fuels and solvents do no enter the storm water drains; and Chemical toilets should be provided within the construction site and properly maintained. All effluent discharged from the construction site should comply with the standards stipulated in the "Technical Memorandum on Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters" (TM-DSS). Other Minimisation Measures To mitigate the impact of the loss, the proposed sloping seawall would be constructed with rock armour units to allow intertidal organisms to grow. The new vertical seawall for the lookout points and viewing platform and the breakwater would also provide additional hard substrata for the recolonization of intertidal fauna and corals. Ecological features e.g. seawall enhanced with rough texture and irregular pattern would be incorporated into the design of vertical seawall as far as practicable. A submission on the detailed design of the ecological features to be adopted will be prepared subject to comment by the AFCD prior to the installation of the ecological features. 	Works site / during the construction and operation stages	Project Proponent / Contractors		V	V	◆ EIAO-TM

* Des - Design, C - Construction, O – Operation

Table B.8 Implementation Schedule for Fisheries Mitigation Measures

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementatio	Imple St	menta tages		Relevant Legislation and
	Mitigation Measures		n Agent	Des	С	0	Guidelines
S10.7.1.3	 During the capital and maintenance dredging operations, mitigation measures (including use of closed grab, silt curtains and restriction of dredging rate to no more than 100m³ per hour) recommended in the water quality impact assessment would be implemented to control water quality impacts to within acceptable levels. These mitigation measures would also control and minimize the indirect impacts on fisheries resources due to deterioration in water quality as a result of both capital and maintenance dredging works. 	Works site / during the construction and operation stages	Contractors		V	~	 EIAO-TM ProPECC PN 1/94 WPCO

* Des - Design, C - Construction, O – Operation

EIA Ref.		Environmental Protection Measures /	Location / Timing	Implementation	Imple St	ment tages		Relevant Legislation and
		Mitigation Measures	5	Agent	Des	С	0	Guidelines
Table 11.10	•	CM1 - All the existing Trees to be retained and not to be affected by the Project should be carefully protected during the construction phase in accordance with DEVB TCW No. 7/2015 titled "Tree Preservation" and the latest "Guidelines on Tree Preservation during Development" issued by GLTM Section of DEVB, including provision of Tree Protection Zones (TPZs). Any existing vegetation in landscaped areas and natural terrain not to be affected by the Project should also be carefully preserved. Therefore, these existing landscape elements can maintain their qualities throughout the construction phase. CM4 - Lighting for the construction works at night, if any, should be carefully controlled to prevent light overspill to the nearby VSRs and into the sky. CM5 - Decorative Hoardings, with designs and forms compatible with the surrounding settings, should be erected during the construction phase to minimise the potential landscape and visual impacts from the construction works and activities, e.g. avoiding unintended destruction of existing trees and other landscape elements, and reducing visual bulkiness of the screen hoardings, etc. CM6 - The layout and arrangement of construction site facilities which include site office and temporary storage area should be properly managed and construction activities at the site should be carefully supervised and controlled to minimise potential		Project Proponent/ Contractors				 EIAO-TM DEVB TC (W) No.7/2015 Guidelines on Tree Preservation during Development

Table B.9 Implementation Schedule for Landscape and Visual Impact Mitigation Measures

EIA Ref.		Environmental Protection Measures /	Location / Timing	Implementation	Imple S ⁻	ment tages		Relevant Legislation and	
-		Mitigation Measures	3	Agent	Des	С	0	Guidelines	
		adverse landscape and visual impacts.							
Table 11.10	•	CM7 - A buffer zone with a minimum distance of about 10m will be provided between the CPA and the boundary of dredging works to minimise the potential impact on the CPA arising from the dredging activities.	Works site / during the design construction and operation stages	Project Proponent/ Contractors	V	V	\checkmark		
Table 11.10	•	CM8 - Silt curtains will be deployed to enclose the dredging works to minimise the potential water quality impact (e.g. dispersion of suspended sediments) on the CPA. CM9 - The dredging works will be closely supervised by site staff to ensure no unauthorised works will be carried out within the CPA.	Works site / during the construction stage	Project Proponent/ Contractors		\checkmark		◆ EIAO-TM◆ WPCO	
Table 11.11	•	 OM1 - A buffer zone with a minimum distance of about 10m will be provided between the CPA and the boundary of maintenance dredging works to minimise the potential impact on the CPA arising from the dredging activities. OM2 - Silt curtains will be deployed to enclose the maintenance dredging works to minimise the potential water quality impact (e.g. dispersion of suspended sediments) on the CPA. OM 3 - The maintenance dredging works will be closely supervised by site staff to ensure no unauthorised works will be carried out within the CPA. 	Works site / during maintenance dredging in operation stage	Project Proponent/ Contractors			V	◆ EIAO-TM	
Table 11.11	•	OM 4 - The Aboveground/Above-sea-level Structures/Hardscape Features of the Project, including the pavilion, the breakwater, and the promenade with public landing facility, etc. and elements of streetscape in regard to the layouts, forms, materials and finishes shall be sensitively	Works site / during the design and operation stages	Project Proponent/ Contractors	V		V	◆ EIAO-TM	

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	Implementation Stages*			Relevant Legislation and	
	Mitigation Measures	Ū	Agent	Des	С	0	Guidelines	
	designed, so that the structures/hardscape features can blend with the surrounding landscape and visual context, e.g. the pavilion should be visually permeable and its appearance and orientation should take into account the overall landscape master plan of the proposed enhancement works. The proposed colour and texture for the proposed breakwater and lookout points shall be visually compatible with the adjacent landscape elements.							
Table 11.11	 OM5 - Buffer Planting shall be provided at the perimeter of potential intrusive aboveground structures, so as to visually screen and soften their hard edges and surfaces and create a more harmonious landscape. OM 6 - Opportunity of Amenity Planting shall be maximised within the Project, so that the proposed works will be more compatible and harmonious with the surroundings landscape - and visual-wise. OM7 - During the Operation Phase, all disturbed hard and soft landscape areas within temporary works sites and works areas caused by the proposed works shall have already been reinstated equal or better quality to the satisfaction of the relevant Government Departments, so as to maintain or improve the existing landscape and visual quality. 	Works site / during the operation stage	Project Proponent/ Contractors			~	◆ EIAO-TM	

* Des - Design, C - Construction, O – Operation



<u>Appendix C</u> <u>Impact Monitoring Schedule of this and</u> <u>next Reporting Period</u>

		Cont	rract No. CV/2020/09 Lei Yue Mun Waterfront Enhancement Projec EM&A Monitoring Schedule	ct.		
			Jan-22			
Sun	Mon	Тие	Wed T	'nu	Fri	Sat
						1
						Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 09:19 - 13:00 Flood Tide: 13:00 - 19:39 <u>Monitoring Time:</u> Mid-ebb: 09:24 - 12:54 Mid-flood: 14:34 - 18:04
2	3	4	5 6	;	7	8
		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 11:55 - 15:07 Flood Tide: 04:43 - 11:55 <u>Monitoring Time:</u> Mid-ebb: 11:46 - 15:16 Mid-flood: 08:00 - 10:04*\$		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period</u> Ebb Tide: 13:27 - 17:00 Flood Tide: 06:14 - 13:27 <u>Monitoring Time:</u> Mid-ebb: 13:28 - 16:58 Mid-flood: 08:05 - 11:35 Daytime Noise monitoring for NM1, NM2-A, NM3 & NM4		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period</u> Ebb Tide: 15:00 - 19:00 Flood Tide: 07:32 - 15:00 <u>Monitoring Time:</u> Mid-ebb: 15:15 - 18:45 Mid-flood: 09:31 - 13:01
9	10	11	12 1	3	14	15
		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 17:38 - 09:14 Flood Tide: 23:00 - 17:38 <u>Monitoring Time:</u> Mid-ebb: 11:41 - 15:11 Mid-flood: 17:40 - 19:00&\$		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 07:31 - 10:16 Flood Tide: 10:16 - 18:49 <u>Monitoring Time:</u> Mid-ebb: 08:00 - 10:38*\$ Mid-flood: 12:47 - 16:17		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 10:00 - 12:00 Flood Tide: 12:00 - 19:40 <u>Monitoring Time:</u> Mid-ebb: 09:15 - 12:45 Mid-flood: 14:05 - 17:35
				Daytime Noise monitoring for NM1, NM2-A, NM3 & NM4		
16	17	18	19 2	0	21	22
		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 11:06 - 14:00 Flood Tide: 04:18 - 11:06 <u>Monitoring Time:</u> Mid-ebb: 10:48 - 14:18 Mid-flood: 08:00 - 10:45*\$	Impact Daytime Noise monitoring for NM1, NM2-A, NM3 & NM4	Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 12:02 - 15:24 Flood Tide: 05:19 - 12:02 <u>Monitoring Time:</u> Mid-ebb: 11:58 - 15:28 Mid-flood: 08:00 - 10:25*\$		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 13:13 - 17:05 Flood Tide: 06:21 - 13:13 <u>Monitoring Time:</u> Mid-ebb: 13:24 - 16:54 Mid-flood: 08:02 - 11:32
23	24	25	26 2	7	28	29
23	24	25 Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 15:28 - 20:28 Flood Tide: 08:00 - 15:28 <u>Monitoring Time:</u> Mid-ebb: 15:43 - 19:00&\$ Mid-flood: 09:59 - 13:29	26 2	7 Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 09:25 - 10:58 Monitoring Time: Mid-ebb: 08:00 - 09:12*\$ Mid-flood: 11:26 - 14:56	28 Impact Daytime Noise monitoring for NM1, NM2-A, NM3 & NM4	29 Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 08:38 - 11:20 Flood Tide: 11:20 - 18:31 <u>Monitoring Time:</u> Mid-ebb: 08:14 - 11:44 Mid-flood: 13:10 - 16:40
23	24	Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 15:28 - 20:28 Flood Tide: 08:00 - 15:28 <u>Monitoring Time:</u> Mid-ebb: 15:43 - 19:00&\$	26 2	Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 05:21 - 09:25 Flood Tide: 09:25 - 16:58 <u>Monitoring Time:</u> Mid-ebb: 08:00 - 09:12*\$	Impact Daytime Noise monitoring for	Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 08:38 - 11:20 Flood Tide: 11:20 - 18:31 <u>Monitoring Time:</u> Mid-ebb: 08:14 - 11:44
23		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 15:28 - 20:28 Flood Tide: 08:00 - 15:28 <u>Monitoring Time:</u> Mid-ebb: 15:43 - 19:00&\$	26 2	Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 05:21 - 09:25 Flood Tide: 09:25 - 16:58 <u>Monitoring Time:</u> Mid-ebb: 08:00 - 09:12*\$	Impact Daytime Noise monitoring for	Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 08:38 - 11:20 Flood Tide: 11:20 - 18:31 <u>Monitoring Time:</u> Mid-ebb: 08:14 - 11:44

	C	ontract No. CV/2020/09 Lei Yue Mun Waterfront Enhancement F EM&A Monitoring Schedule	Project		
		Feb-22			
iun Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5
				Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 13:00 - 17:00 Flood Tide: 05:38 - 13:00 <u>Monitoring Time:</u> Mid-ebb: 13:15 - 16:45 Mid-flood: 08:00 - 11:30* Daytime Noise monitoring for NM1, NM2-A, NM3 & NM4	
6 7	8	9	10	11	12
	Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 15:32 - 20:49 Flood Tide: 07:23 - 15:32 <u>Monitoring Time:</u> Mid-ebb: 15:47 - 19:00& Mid-flood: 09:42 - 13:12	Impact Daytime Noise monitoring for NM1, NM2-A, NM3 & NM4	Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 17:00 - 23:59 Flood Tide: 08:00 - 17:00 <u>Monitoring Time:</u> Mid-ebb: 17:20 - 19:00&\$ Mid-flood: 10:45 - 14:15		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 18:00 - 23:59 Flood Tide: 01:55 - 18:00 <u>Monitoring Time:</u> Mid-ebb: 18:17 - 19:00&\$ Mid-flood: 08:12 - 11:42
13 14	15	16	17	18	19
	Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 10:00 - 13:19 Flood Tide: 13:19 - 20:20 <u>Monitoring Time:</u> Mid-ebb: 10:09 - 13:09\$ Mid-flood: 15:04 - 18:34 Daytime Noise monitoring for NM1, NM2-A, NM3 & NM4		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Periodi</u> Ebb Tide: 10:52 - 15:00 Flood Tide: 15:00 - 21:51 <u>Monitoring Time:</u> Mid-ebb: 11:11 - 14:41 Mid-flood: 15:20 - 18:50		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Periodi</u> Ebb Tide: 11:42 - 16:29 Flood Tide: 05:12 - 11:42 <u>Monitoring Time:</u> Mid-ebb: 12:20 - 15:50 Mid-flood: 08:00 - 10:12
20 21	22	23	24	25	26
	Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 13:31 - 19:04 Flood Tide: 06:36 - 13:31 <u>Monitoring Time:</u> Mid-ebb: 14:32 - 18:02 Mid-flood: 08:18 - 11:48		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 15:07 - 22:00 Flood Tide: 08:00 - 15:07 <u>Monitoring Time:</u> Mid-ebb: 15:27 - 18:57 Mid-flood: 09:48 - 13:18 Post Translocation Coral Monitoring	Impact Daytime Noise monitoring for NM1, NM2-A, NM3 & NM4	Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 17:12 - 23:59 Flood Tide: 00:36 - 17:12 <u>Monitoring Time:</u> Mid-ebb: 17:32 - 19:00&\$ Mid-flood: 08:00 - 10:39*
27 28					
Remarks:					
Note: * - Due to safety concern of vessel transportation earlier than 0800, Water Quality Monitoring wou \$ - Since predicted tide is shorter than 3.5 hours, method of 90% tidal period as monitoring time is	uld start at 0800.				

\$ - Since predicted tide is shorter than 3.5 hours, method of 90% tidal period as monitoring time is adopted.
 & - Due to safety concern for sampling event in night-time, method of 90% tidal period as monitoring time is approached and end at 1900.



<u>Appendix D</u> <u>Event/Action Plan for Noise Exceedance</u>



		ACT	TION	
EVENT	ET	IEC	ER	Contractor
Action Level	 Notify IEC, ER and Contractor; Carry out investigation; Report the results of investigation to the IEC, ER and Contractor; Discuss with the Contractor and formulate remedial measures; and Increase monitoring frequency to check mitigation effectiveness. 	 Review the analysed results submitted by the ET; Review the proposed remedial measures by the Contractor and advise the ER accordingly; and Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; and Ensure remedial measures are properly implemented. 	 Submit noise mitigation proposals to IEC, ET and ER; and Implement noise mitigation proposals.
Limit Level	 Identify source; Inform IEC, ER, EPD and Contractor; Repeat measurements to confirm findings; Increase monitoring frequency; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Inform IEC, ER and EPD the causes and actions taken for the exceedances; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; and If exceedance stops, cease additional monitoring. 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; and Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures properly implemented; and If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; and Stop the relevant portion of works as determined by the ER until the exceedance is abated.



<u>Appendix E</u> <u>Noise Monitoring Equipment Calibration</u> <u>Certificate</u>



CERTIFICATE OF CALIBRATION

NO. 20210924246

Name of Product:	Sound Level Meter	
Model:	ST-11D	
Serial Number:	820259	
Specification:	Class 1	
Conclusion:	Pass	
Date of calibration:	2021-10-12	
Due Date:	2022-10-11	
		_

Calibrated by:



I. This report certifies that all calibration equipment used in the test is traceable with the internal ISO9001 procedures and meets all specification given in the Manual(s) or respectively surpass then, and applies only to the unit identified above.

II. This certificate is produced with advanced equipment & procedures which permit comprehensive quality assurance verification of all data supplied herein.

III. This certificate of calibration shall not be reproduced except in full, without written permission of the Scarlet Tech Co Ltd Taiwan.

1. Preliminary inspection: OK

4. Measuring up limit: 140 dBA

2. Type & serial No. of Microphone: AWA14425-14994

5. Frequency weightings (Acoustic signal tests for Z weighting, other electric signal tests.)

3. Adjustments to indicated sound levels:

Type of Calibrator <u>B&K 4231</u>

Sound Pressure Level 94.0 dB

Equivalent Free-field Sound Level (reference environment conditions) 93.8 dB

Nominal	Free	quency weight	ing / dB	Nominal	Frequency weighting / dB			
frequency /Hz	A	с	z	frequency /Hz	A	с	z	
10	-71.2	-14.8	-0.7	1000	0.0	-0.1	-0.2	
20	-50.2	-6.2	-0.2	2000	1.2	-0.2	0.2	
31.5	-39.4	-2.9	0.0	4000	1.0	-0.9	0.3	
63	-26.3	-0.9	0.4	8000	-1.0	-3.2	-0.7	
125	-16.0	-0.3	0.1	12500	-5.9	-7.9	-1.3	
250	-8.6	-0.1	0.2	16000	-11.8	-13.8	-1.0	
500	-3.2	-0.1	0.2	20000	-23.9	-25.9	-1.2	

6. Self-generated noise

Microphone replaced by electrical input signal device

11.5 dB(A)	17.7 dB(C)	23.6 dB(Z)	
7. F&S Weighting			
Rate of the F weighting decrease (dB/s) 35.2			
Rate of the S weighting d	ecrease (dB/s)	4.4	
Deviation of	F&S	0.0	

8. Level Linearity (A-weighting at frequency 1 kHz)

Reference sound level 90.0 dB

Max error at 10dB steps upper reference sound level -0.1 dB

Max error at 1dB steps within 5dB of the upper limit linear operating range 0.0 dB

Max error at 10dB steps below reference sound level 0.1 dB

Max error at 1dB steps within 5dB upper the lower limit linear operating range 0.1 dB

9. Tone burst response (A Weighting) :

Single Toneburst duration /ms	Toneburst response /dB					
Single Toneburst duration /ms	LAFmax-LA	Lasmax+La	Lae-La	LaeqT-LA		
500	0.0	-4.0	-2.9	-7.0		
200	-1.0	-7.4	-6.9	-7.0		
50	-18.1	-26.9	-26.9	-7.0		
10	-27.0	1	-36.0	-7.0		

10. Peak C sound level (500Hz) :

Cycle	One cycle	nominal value	Positive half	nominal value	Negative half	nominal value
LCpeak-LC(dB)	3.5	3.5	2.3	2.4	2.3	2.4

11. Overload indication: Pass

12. Statistical analysis function

Sweep signal maximum indicated sound level: 112.8 dB

Sweep amplitude: 40 dB

Scan cycle time: <u>60</u> S; Measurement period: <u>180</u> S.

Items	Items Measured value/dB		Error/dB	
LAeq,T	103.2	103.2	0.0	

L5	110.8	110.8	0.0
L10	108.8	108.8	0.0
L50	92.9	92.8	0.1
L90	76.9	76.8	0.1
L95	75.0	74.8	0.2

Uncertainty of measurement results: 0.4 dB (k=2)

Environment conditions:

Air temperature:	<u>29</u> °C
Relative humidity:	72 %
Static pressure:	<u>100.9</u> kPa

References:

IEC 61672-3 Sound Level Meters Part 3: Periodic tests

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CERTIFICATE OF CALIBRATION

NO. 20210924249

Sound Level Meter	
ST-11D	
820262	
Class 1	
Pass	
2021-10-12	
2022-10-11	-
	ST-11D 820262 Class 1 Pass 2021-10-12



Calibrated by:

5. Frequency weightings (Acoustic signal tests for Z weighting, other

I. This report certifies that all calibration equipment used in the test is traceable with the internal ISO9001 procedures and meets all specification given in the Manual(s) or respectively surpass then, and applies only to the unit identified above.

II. This certificate is produced with advanced equipment & procedures which permit comprehensive quality assurance verification of all data supplied herein.

III. This certificate of calibration shall not be reproduced except in full, without written permission of the Scarlet Tech Co Ltd Taiwan.

1. Preliminary inspection: OK

4. Measuring up limit: 140 dBA

electric signal tests.)

2. Type & serial No. of Microphone: AWA14425-14994

3. Adjustments to indicated sound levels:

Type of Calibrator <u>B&K 4231</u>

Sound Pressure Level 94.0 dB

Equivalent Free-field Sound Level (reference environment conditions) 93.8 dB

Nominal	Frequency weighting / dB			Nominal	Fre	quency weighting	g/dB
frequency /Hz	A	с	Z	frequency /Hz	A	с	z
10	-71.2	-14.8	-0.7	1000	0.0	-0.1	-0.2
20	-50.2	-6.2	-0.2	2000	1.2	-0.2	0.2
31.5	-39.4	-2.9	0.0	4000	1.0	-0.9	0.3
63	-26.3	-0.9	0.4	8000	-1.0	-3.2	-0.7
125	-16.0	-0.3	0.1	12500	-5.9	-7.9	-1.3
250	-8.6	-0.1	0.2	16000	-11.8	-13.8	-1.0
500	-3.2	-0.1	0.2	20000	-23.9	-25.9	-1.2

6. Self-generated noise

Microphone replaced by electrical input signal device

11.5 dB(A)	17.7 dB(C)	23.6 dB(Z)
. F&S Weighting		
Rate of the F weighting	decrease (dB/s)	35.2

	53.2
Rate of the S weighting decrease (dB/s)	4.4
Deviation of F&S	0.0

8. Level Linearity (A-weighting at frequency 1 kHz)

Reference sound level 90.0 dB

Max error at 10dB steps upper reference sound level -0.1 dB

Max error at 1dB steps within 5dB of the upper limit linear operating range $\underline{0.0}$ dB

Max error at 10dB steps below reference sound level 0.1 dB

Max error at 1dB steps within 5dB upper the lower limit linear operating range 0.1 dB

9. Tone burst response (A Weighting) :

Single Toneburst duration /ms	Toneburst response /dB				
Single Toneburst duration /ms	LAFmax-LA	Lasmax-La	Lae-La	LAeqT-LA	
500	0.0	-4.0	-2.9	-7.0	
· 200	-1.0	-7.4	-6.9	-7.0	
50	-18.1	-26.9	-26.9	-7.0	
10	-27.0	1	-36.0	-7.0	

10. Peak C sound level (500Hz) :

Cycle	One cycle	nominal value	Positive half	nominal value	Negative half	nominal value
LCpeak-LC(dB)	3.5	3.5	2.3	2.4	2.3	2.4

11. Overload indication: Pass

12. Statistical analysis function

Sweep signal maximum indicated sound level: 112.8 dB

Sweep amplitude: 40 dB

Scan cycle time: <u>60</u> S; Measurement period: <u>180</u> S.

ltems	Measured value/dB	Theoretical calculated value/dB	Error/dB	
LAeq,T	103.2	103.2	0.0	

L5	110.8	110.8	0.0
L10	108.8	108.8	0.0
L50	92.9	92.8	0.1
L90	76.9	76.8	0.1
L95	75.0	74.8	0.2

Uncertainty of measurement results: 0.4 dB (k=2)

Environment conditions:

Air temperature:	<u>29</u> °C
Relative humidity:	%
Static pressure:	<u>100.9</u> kPa

References:

IEC 61672-3 Sound Level Meters Part 3: Periodic tests



CALIBRATION CERTIFICATE

Certificate Informat	ion				
Date of Issue	7-Aug-2021]	C	Certificate Number	MLCN212053S
Customer Information	on				
Company Name	Acuity Sustainab	oility Consulting Lim	ited		
Address	Unit C, 11/F., Fc				
	Nos. 37-39 Wing	g Hing Street.			
	Cheung Sha War				
Equipment-under-To	est (EUT)				
Description	Acoustic Calibra	tor			
Manufacturer	Pulsar	litor			
Model Number	105				
Serial Number	63705				
	03703				
Equipment Number					
Calibration Particul	ar				
Date of Calibration	7-Aug-2021				
Calibration Equipment	4231(MLTE008)) / AV200063 / 23-Ju	in-23		
	1357(MLTE190)	/ MLEC21/05/02 / 2	26-May-22		
Calibration Procedure	MLCG00, MLCO	G15			
Calibration Conditions	Laboratory	Temperature	23 °C ± 5	о <u>с</u>	
Cambration Conditions	Laboratory	Relative Humidity	$23 C \pm 3$ 55% ± 25%		
	EUT	Stabilizing Time	Over 3 hou		
	LUI	Warm-up Time			
		•	Not applic		
		Power Supply	Internal ba		
Calibration Results		were detailed in the			
	All calibration re	sults were within EU	JT specificat	ion.	
					8
Approved By & Date			S. Statistics		
			1		
			16	K.O. Lo	7-Aug-2021
Clashannanda				11.0.150	1 1146 2021
 Statements * Calibration equipment used 	for this calibration ar	a traccable to national (nternational st	andarda	
 The results on this Calibrati 					incertainties quoted will
not include allowance for th					
overloading, mishandling, n					
* MaxLab Calibration Centre					
 The copy of this Certificate prior written approval of Ma 			ted. No part o	t this Certificate may be re	eproduced without the
	ixeau canoration Cer	na e Lillinea.			

Page 1 of 2



Calibration Data		C	ertificate No.	MLCN212053S
EUT Setting	Standard Reading	EUT Error from Setting	Calibration Uncertainty	EUT Specification
94 dB	93.9 dB	-0.1 dB	0.20 dB	± 0.2 dB
		- END -		
Caliburated Pro	Kanath	C	hoolend By	KOLO

Keneth Checked By : K.O. Lo Calibrated By : 7-Aug-21 7-Aug-21 Date : Date : Page 2 of 2



<u>Appendix F</u> <u>Noise Monitoring Results</u>



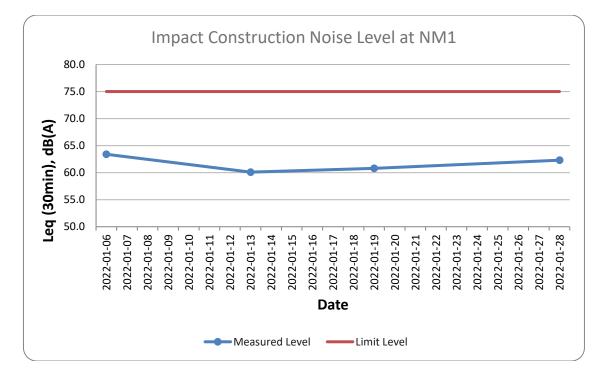
Location NM1 - Village house in Lei Yue Mun Hoi Pong Road Central							
	dB (A) (30-	mins)					
Date	Time	Weather Measured N	Measured Noise Level				
			L _{eq}	L ₁₀	L ₉₀		
2022-01-06	16:48	Fine	63.4	66.1	57.0		
2022-01-13	14:48	Fine	60.1	65.0	53.9		
2022-01-19	09:54	Sunny	60.8	64.0	55.9		
2022-01-28	16:00	Fine	62.3	65.6	54.7		

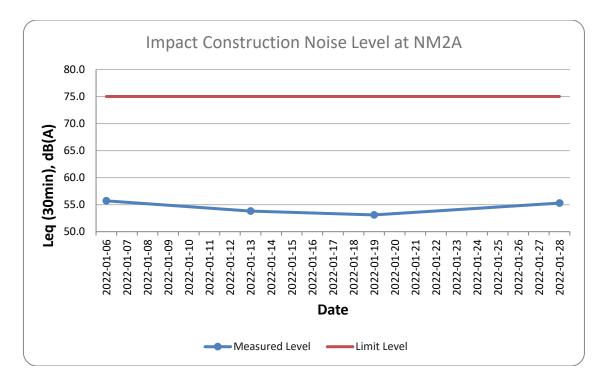
Location NM2A - No.79B, Lei Yue Mun Hoi Pong Road East							
	dB (A) (30-	·mins)					
Date	Time	Weather	Measured Noise Level		Level		
			L _{eq}	L ₁₀	L ₉₀		
2022-01-06	17:53	Fine	55.7	58.2	51.7		
2022-01-13	16:01	Fine	53.8	57.0	49.7		
2022-01-19	11:10	Sunny	53.1	56.7	49.9		
2022-01-28	14:45	Fine	55.3	58.0	49.6		

Location NM3 - Jockey Club Lei Yue Mun Plus							
			Unit:	dB (A) (30-	·mins)		
Date	Time	Weather	Measured Noise Level				
			L _{eq}	L ₁₀	L ₉₀		
2022-01-06	16:15	Fine	64.2	66.6	60.4		
2022-01-13	14:10	Fine	64.8	67.2	60.9		
2022-01-19	9:15	Sunny	64.9	66.3	61.2		
2022-01-28	16:40	Fine	65.8	66.9	64.5		

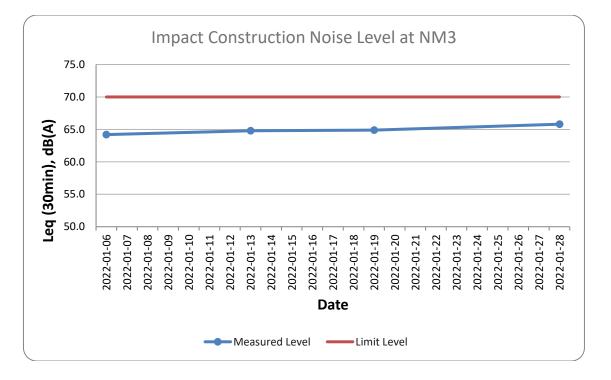
Location NM4 - No. 21C, Lei Yue Mun Hoi Pong Road East							
Unit: dB (A) (30-mir							
Date	Time	Weather	Measured Noise Level				
			L _{eq}	L ₁₀	L ₉₀		
2022-01-06	17:21	Fine	66.8	69.1	64.5		
2022-01-13	15:23	Fine	67.2	69.2	63.6		
2022-01-19	10:32	Sunny	67.4	70.3	65.3		
2022-01-28	15:20	Fine	66.8	69.2	61.3		

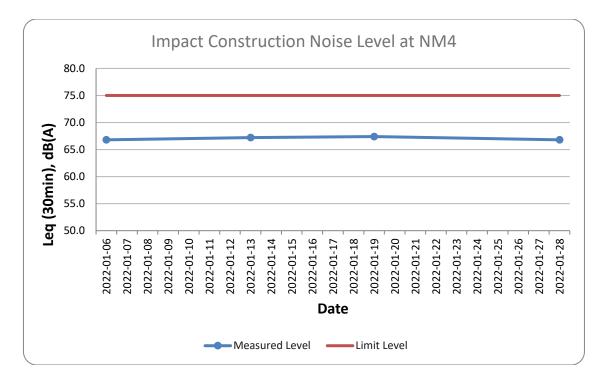














<u>Appendix G</u> <u>Event/Action Plan for Water Quality</u> <u>Exceedance</u>



EVENT	ACTION							
EVENT	ET	IEC	ER	CONTRACTOR				
Action level being exceeded by one sampling day	 Repeat <i>in-situ</i> measurement to confirm findings; Identify reasons for non- compliance and source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plants, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; (The above actions should be taken within 1 working day after the exceedance is identified) Repeat measurement on next day of exceedance. 	 Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER 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. Assess the effectiveness of the implemented mitigation measures (The above actions should be taken within 1 working day after the exceedance is identified) 	 Inform the ER and confirm notification of the non- compliance in writing; Rectify unacceptable practice; Check all plants and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and ER; 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	 Repeat <i>in-situ</i> measurement to confirm findings; Identify reasons for non- compliance and source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plants, 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; (The above actions should be taken within 1 working day after the exceedance is identified) Repeat measurement on next working day of exceedance. 	 Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER 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; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified) 	 Inform the ER and confirm notification of the non- compliance in writing; Rectify unacceptable practice; Check all plants and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified) 				



EVENT	ACTION					
EVENI	ET	ET IEC ER CO				
Limit level being exceeded by one sampling day	 Repeat <i>in-situ</i> measurement to confirm findings; Identify reasons for non- compliance and source(s) of impact; 	 Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER 	 Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; 	 Inform the ER and confirm notification of the non- compliance in writing; Rectify unacceptable practice; Check all plants and equipment; 		
	 Inform IEC, Contractor and EPD; Check monitoring data, all plants, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; 	 accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after 	 Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. 	 Consider changes of working methods; Discuss with ET, IEC and ER and Propose mitigation measures to IEC and ER within 3 working days; 		
	 Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level. (The above actions should be taken within 1 working day after 	the exceedance is identified)	 (The above actions should be taken within 1 working day after the exceedance is identified) 	 Implement the agreed mitigation measures 		
Limit level being	the exceedance is identified) 1. Repeat <i>in-situ</i> measurement to	1. Discuss with ET and Contractor	1. Discuss with IEC, ET and	1. Inform the ER and confirm		
exceeded by more than one consecutive sampling day	 Identify reasons for non- compliance and source(s) of impact; Identify reasons for non- compliance and source(s) of impact; Inform IEC, Contractor and EPD; Check monitoring data, all plants, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level for 2 consecutive days. (The above actions should be taken within 1 working day after the exceedance is identified) 	 Distribution on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified) 	 Discusse with Loy, Er chia 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 mitigation measures. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the dredging and sand filling work until no exceedance of Limit level. (The above actions should be taken within 1 working day after the exceedance is identified) 	 Informatic Enclarge community notification of the non- compliance in writing; Rectify unacceptable practice; Check all plants and equipment; Consider changes of working methods; Discuss with ET, IEC and ER and Propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures; As directed by the ER, to slow down or stop all or part of the dredging and sand filling work. 		



<u>Appendix H</u> <u>Water Quality Monitoring Equipment</u> <u>Calibration Certificate</u>



Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. Date of Issue Page No. : R-BA120081 : 16 December 2021 : 1 of 2

PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited Unit E, 12/F, Ford Glory Plaza 37-39 Wing Hong Street, Cheung Sha Wan Kowloon (HK) Hong Kong Attn :

PART B - SAMPLE INFORMATION

Name of Equipment :	HORIBA U-53
Manufacturer :	HORIBA
Serial Number :	NEKVM2XU
Date of Received :	09 December 2021
Date of Calibration :	15 December 2021
Date of Next Calibration :	14 March 2022

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

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

PART D - CALIBRATION RESULT

(1) pH value

TARGET (PH UNIT)	DISPLAY READING	TOLERANCE	RESULT
4.00	3.99	-0.01	Satisfactory
7.42	7.22	-0.20	Satisfactory
10.01	9.81	-0.20	Satisfactory

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

(2) Temperature

READING OF REF. THERMOMETER ($^{\circ}C$)	DISPLAY READING (°C)	TOLERANCE (°C)	RESULT
16	16.30	0.30	Satisfactory
22	22.00	0.00	Satisfactory
34	33.38	-0.62	Satisfactory

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

(3) Dissolved oxygen

EXPECTED READING (MG/L)	DISPLAY READING (MG/L)	TOLERANCE (MG/L)	RESULT
8.39	8.17	-0.22	Satisfactory
6.59	6.79	0.20	Satisfactory

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

Lee Chun-ning

Assistant Manager (Chemical Testing)



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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EXPECTED READING (MG/L)	DISPLAY READING (MG/L)	TOLERANCE (MG/L)	RESULT
5.96	6.10	0.14	Satisfactory
2.21	1.76	-0.45	Satisfactory

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

(4) Salinity

EXPECTED READING (G/L)	DISPLAY READING (G/L)	TOLERANCE (%)	RESULT
10	9.69	-3.10	Satisfactory
20	20.50	2.50	Satisfactory
30	31.18	3.93	Satisfactory

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

(5) Turbidity

EXPECTED READING (NTU)	DISPLAY READING (NTU)	TOLERANCE (%)	RESULT
0	0.17		Satisfactory
10	9.90	-1.0	Satisfactory
20	19.7	-1.5	Satisfactory
100	104	4.0	Satisfactory
800	796	-0.5	Satisfactory

Tolerance of Turbidity should be less than ± 10.0 (%)

Remark(s)

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

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

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

The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

--- END OF REPORT ---



<u>Appendix I</u> <u>Water Quality Monitoring Results</u>

																<u> </u>
Location C1	Date 20220101	Weather Cloudy	Sea Condition Moderate	Tidal Mid-Ebb	Water Level Surface	Depth (m) 1	Time 9:34	DO (mg/L) 8.30	pH 8.35	Sal (ppt) 33.28	Temp (?) 20.97	Turbidty (NTU) 3.78	SS 6	Current Velocity (m/s) 0.298	Current Direction E	Remark /
C1	20220101	Cloudy	Moderate	Mid-Ebb	Surface	1	9:34	8.33	8.38	33.10	20.89	3.89	6	0.278	SE	/
C1	20220101	Cloudy	Moderate	Mid-Ebb	Middle	10.6	9:33	8.34	8.46	33.10	20.10	4.17	4	0.205	SE	/
C1 C1	20220101 20220101	Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	10.6	9:33 9:32	8.34	8.47	32.92 32.89	20.02 20.21	4.30 3.80	4	0.201	E	/
C1	20220101	Cloudy	Moderate	Mid-Ebb	Bottom	20.2	9:32	8.40	8.34	32.88	20.07	4.06	4	0.299	E	/
C2 C2	20220101 20220101	Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	10:45 10:45	8.41	8.45	32.70 32.75	20.72 20.76	3.64	2.5	0.276	SE	/
C2 C2	20220101	Cloudy	Moderate	Mid-Ebb	Middle	12.15	10:43	8.42	8.22	32.75	20.70	3.06	4		SE	/
C2	20220101	Cloudy	Moderate	Mid-Ebb	Middle	12.15	10:44	8.30		32.71	20.82	3.08	3		SE	/
C2 C2	20220101 20220101	Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Bottom	23.3 23.3	10:43 10:43	8.14	8.40	33.61 33.45	20.19 20.20	3.43	6		E	/
M1	20220101	Cloudy	Moderate	Mid-Ebb	Surface	1	10:43	8.14	8.21	33.22	20.32	2.54	4	0.301	E	/
M1	20220101	Cloudy	Moderate	Mid-Ebb	Surface	1	10:12	8.16	8.40	33.53	20.75	2.49	4	0.295	SE	/
M1 M1	20220101 20220101	Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Middle	3.45 3.45	10:11 10:11	8.22	8.32	33.26 33.29	20.30 20.38	3.30	6 4	0.281 0.293	SE	/
M1	20220101	Cloudy	Moderate	Mid-Ebb	Bottom	5.9	10:10	8.27	8.32	33.32	20.27	2.69	4	0.271	SE	/
M1	20220101	Cloudy	Moderate	Mid-Ebb	Bottom	5.9	10:10	8.27		33.35	20.26	2.81	3	0.298	SE	/
M2 M2	20220101 20220101	Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	9:52 9:52	8.16	8.41	33.21 33.40	20.26 20.44	2.32	4		E SE	/
M2	20220101	Cloudy	Moderate	Mid-Ebb	Middle	6.4	9:51	8.59	8.52	32.42	20.12	1.94	5	0.265	SE	/
M2	20220101	Cloudy	Moderate	Mid-Ebb	Middle	6.4	9:51	8.69	8.48	32.59	20.12	2.13	3	0.283	E	/
M2 M2	20220101 20220101	Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Bottom	11.8 11.8	9:50 9:50	8.54	8.40	32.47 32.55	20.22 20.12	2.10	5	0.275	E SF	/
M3	20220101	Cloudy	Moderate	Mid-Ebb	Surface	1	10:27	8.62	8.28	32.23	19.98	2.94	8		E	/
M3	20220101	Cloudy	Moderate	Mid-Ebb	Surface	1	10:27	8.55		32.16	19.97	3.21	8	0.000	E	/
M3 M3	20220101 20220101	Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Middle	3.95 3.95	10:26 10:26	8.23	8.33	32.72 32.29	20.78 19.99	3.40	2.5	0.277	E	/
M3	20220101	Cloudy	Moderate	Mid-Ebb	Bottom	6.9	10:25	8.74	8.31	33.15	20.19	3.95	4	0.274	E	/
M3	20220101	Cloudy	Moderate	Mid-Ebb	Bottom	6.9	10:25	8.79	8.28	33.04	20.17	3.66	5	0.281	E	/
M4 M4	20220101 20220101	Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	11:03 11:03	8.77	8.41	32.42 33.68	20.15 20.37	1.99	4	0.273	SE	/
M4	20220101	Cloudy	Moderate	Mid-Ebb	Bottom	4.4	11:01	8.68	8.45	32.28	20.29	2.62	3	0.289	SE	/
M4 C1	20220101 20220104	Cloudy Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Surface	4.4	11:01 11:54	8.79	8.46	32.48 32.93	20.14 21.81	2.33 9.19	4	0.265	E SF	/
C1 C1	20220104 20220104	Sunny Sunny	Moderate	Mid-Ebb	Surface	1	11:54	8.54	8.22	32.93	21.81 21.86	9.19	4		E	/
C1	20220104	Sunny	Moderate	Mid-Ebb	Middle	9.95	11:53	8.20	8.33	31.54	21.67	8.57	4	0.227	E	/
C1 C1	20220104 20220104	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	9.95 18.9	11:53 11:52	8.27	8.39 8.34	31.51 31.64	21.63 21.59	8.80 8.46	4	0.252 0.247	SE F	/
C1	20220104	Sunny	Moderate	Mid-Ebb	Bottom	18.9	11:52	8.28	8.35	31.42	21.55	8.39	4	0.240	SE	/
C2	20220104	Sunny	Moderate	Mid-Ebb	Surface	1	13:20	8.19	8.41	33.02	21.84	6.86	2.5	0.214	SE	/
C2 C2		Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Middle	1 10.55	13:20 13:19	8.18	8.44	32.93 32.50	21.81 21.44	7.28	3	0.247	E	/
C2		,	Moderate	Mid-Ebb	Middle	10.55	13:19	8.15	8.46	32.96	21.80	7.89	3	0.228	SE	/
C2	20220104	Sunny	Moderate	Mid-Ebb	Bottom	20.1	13:18	8.79	8.20	31.33	21.77	8.30	3	0.217	E	/
C2 M1	20220104 20220104	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Surface	20.1	13:18 12:31	8.85	8.23	31.44 31.51	21.74 21.68	8.36 8.26	2.5	0.248	E SE	/
M1	20220104	Sunny	Moderate	Mid-Ebb	Surface	1	12:31	8.48	8.19	32.90	22.39	7.85	3	0.239	E	/
M1	20220104	Sunny	Moderate	Mid-Ebb	Middle	3.7	12:30	8.53	8.36	31.50	21.69	7.46	3	0.245	SE	/
M1 M1	20220104 20220104	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	3.7	12:30 12:29	8.51 8.51	8.38	31.45 31.38	21.64 21.73	7.48	3	0.221 0.254	SE E	/
M1	20220104	Sunny	Moderate	Mid-Ebb	Bottom	6.4	12:29	8.52	8.37	31.29	21.66	7.87	4		SE	/
M2 M2	20220104 20220104	Sunny	Moderate	Mid-Ebb	Surface	1	12:15 12:15	8.47	8.24	31.77 31.75	21.86 21.89	8.06	5	0.239	SE SE	/
M2	20220104	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Middle	6.4	12:15	8.51	8.29	31.75	21.89	7.43	3	0.214	SE	/
M2	20220104	Sunny	Moderate	Mid-Ebb	Middle	6.4	12:14	8.03	8.19	31.42	21.96	7.48	7	0.231	SE	/
M2 M2	20220104 20220104	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Bottom	11.8 11.8	12:13 12:13	8.62	8.21	31.44 31.48	21.90 21.87	7.27	6	0.247	SE	/
M3		Sunny	Moderate	Mid-Ebb	Surface	11.8	12:13	8.68		31.48	21.87	6.85	4		SE	/
M3	20220104		Moderate	Mid-Ebb	Surface	1	12:51	8.64	8.25	31.43	21.58	6.98	6	0.239	E	/
M3 M3	20220104 20220104	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Middle	4	12:50 12:50	8.10	8.41	31.83 31.50	22.44 21.55	7.38	4		E	/
M3	20220104	Sunny	Moderate	Mid-Ebb	Bottom	7	12:49	8.47	8.36	32.50	21.55	6.08	7	0.235	SE	/
M3	20220104	Sunny	Moderate	Mid-Ebb	Bottom	7	12:49	8.47	8.35	32.67	21.67	6.06	7	0.237	E	/
M4 M4	20220104 20220104	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	13:38 13:38	8.32	8.30	31.91 31.84	21.88 21.51	7.11	5	0.251 0.225	SE	/
M4 M4	20220104		Moderate	Mid-Ebb	Bottom	4.1	13:38	8.44	8.30	31.84	21.31	6.59	4	0.223	E	/
M4	20220104	Sunny	Moderate		Bottom	4.1	13:37	8.44	8.37	31.77	21.82	6.40	3	0.242	E	/
C1 C1		Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	13:25 13:25	8.04	8.50	34.92 34.80	21.75 21.72	11.20	9		E	/
C1	20220106	Sunny	Moderate	Mid-Ebb	Middle	9.5	13:24	8.56	8.30	34.36	21.66	9.83	6	0.278	SE	/
C1		Sunny	Moderate	Mid-Ebb Mid-Ebb	Middle	9.5	13:24	8.68		34.31	21.63	10.30	5		SE	/
C1 C1		Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Bottom	18 18	13:23 13:23	8.54	8.33	34.27 34.27	21.80 21.65	10.90	8 10		E	/
C2	20220106	Sunny	Moderate	Mid-Ebb	Surface	1	14:19	8.66	8.46	35.51	21.83	8.89	2.5	0.285	SE	/
C2			Moderate	Mid-Ebb Mid-Ebb	Surface	11 7	14:19	8.77		35.40	21.89	8.64	2.5			/
C2 C2	20220106 20220106	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Middle	11.7 11.7	14:18 14:18	8.08	8.48 8.44	35.52 35.49	22.23 21.88	8.31 7.89	3	0.298 0.293	SE E	/
C2	20220106	Sunny	Moderate	Mid-Ebb	Bottom	22.4	14:17	8.70	8.35	34.49	21.69	7.57	4	0.269	SE	/
C2	20220106	Sunny	Moderate	Mid-Ebb	Bottom	22.4	14:17	8.78		34.56	21.76	7.48	3	0.000	SE	/
M1 M1	20220106 20220106	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	13:55 13:55	8.54	8.44	34.93 34.42	21.84 22.17	7.42	4	0.270 0.263	E SE	/
M1	20220106	Sunny	Moderate	Mid-Ebb	Middle	3.6	13:54	8.41	8.44	34.91	21.81	7.94	4	0.265	E	/
M1 M1	20220106	Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	3.6	13:54 13:53	8.55		34.85 34.98	21.89 21.84	7.96	2.5	0.268	SE	/
M1 M1		Sunny Sunny	Moderate	Mid-Ebb	Bottom	6.2	13:53	8.43		34.98 34.99	21.84	8.65	8	0.1000	E	/
M2	20220106	Sunny	Moderate	Mid-Ebb	Surface	1	13:43	8.88	8.35	34.31	21.92	7.43	3	0.270	SE	/
M2 M2	20220106 20220106	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Middle	1 6.9	13:43 13:42	8.79	8.36	34.31 35.08	21.97 21.82	7.50	4	0:205	SE	/
M2	20220100	Sunny	Moderate	Mid-Ebb	Middle	6.9	13:42	8.35	8.35	34.98	21.82	7.91	4	0.283	SE	/
M2	20220106	Sunny	Moderate	Mid-Ebb	Bottom	12.8	13:41	8.38	8.28	34.96	21.80	7.66	4	0.264	E	/
M2 M3	20220106 20220106	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Surface	12.8	13:41 14:06	8.38		34.96 34.38	21.82 21.68	7.18	5		E	/
M3	20220106		Moderate	Mid-Ebb	Surface	1	14:06	8.61	8.47	34.31	21.69	8.75	5	0.301	SE	/
M3	20220106	Sunny	Moderate	Mid-Ebb	Middle	3.85	14:05	8.56	8.38	35.47	22.02	8.32	4		E	/
M3 M3	20220106 20220106	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	3.85	14:05 14:04	8.69	8.32	34.28 34.24	21.73 21.92	8.48	4	0.272 0.271	SE SE	/
M3	20220106	Sunny	Moderate	Mid-Ebb	Bottom	6.7	14:04	8.76	8.39	34.29	21.94	9.75	4	0.301	SE	/
M4	20220106	Sunny	Moderate	Mid-Ebb Mid-Ebb	Surface	1	14:35	8.05	8.35	35.12	21.79	8.00	4	0.284	E	/
M4 M4	20220106 20220106	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Bottom	4.5	14:35 14:34	8.66	8.29 8.36	34.98 35.02	22.20 21.85	8.10	4		E	/
			Moderate		Bottom	4.5	14:34	8.16		35.02	21.61	8.49	4		F	1

Location C1	Date 20220108	Weather Sunny	Sea Condition Moderate	Tidal Mid-Ebb	Water Level Surface	Depth (m) 1	Time 15:17	DO (mg/L) 9.17		Sal (ppt) 34.24	Temp (?) 22.65	Turbidty (NTU) 11.30	SS 4	Current Velocity (m/s) 0.299	Current Direction SE	Remark /
C1	20220108	Sunny	Moderate	Mid-Ebb	Surface	1	15:17	9.29		34.24	22.63	10.90	4		SE	/
C1	20220108	Sunny	Moderate	Mid-Ebb	Middle	10.3	15:16	8.05		34.06	22.14	10.80	5	0.292	E	/
C1 C1	20220108 20220108	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	10.3 19.6	15:16 15:15	8.20		34.16 34.13	22.14 22.10	10.50 9.59	4	0.301 0.267	F	/
C1	20220108	Sunny	Moderate	Mid-Ebb	Bottom	19.6	15:15	8.00		33.94	22.09	10.60	4	0.265	SE	/
C2 C2	20220108 20220108	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	16:20 16:20	8.96	5 8.29 8.25	33.92 33.85	22.63 22.60	8.16	3	0.295	E SF	/
C2	20220108	Sunny	Moderate	Mid-Ebb	Middle	12.4	16:19	8.20		34.74	22.00	7.49	5	0.286		/
C2	20220108	Sunny	Moderate	Mid-Ebb	Middle	12.4	16:19	8.35		34.78	22.00	7.67	3	0.289	E	/
C2 C2	20220108 20220108	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Bottom	23.8 23.8	16:18 16:18	8.38		34.75 34.56	22.01 21.99	8.43	3	0.298	SE SE	/
M1	20220108	Sunny	Moderate	Mid-Ebb	Surface	1	15:50	8.06		34.33	22.00	8.23	3	0.270	E	/
M1	20220108	Sunny	Moderate	Mid-Ebb	Surface	1	15:50	8.06		34.35	22.01	8.06	3	0.283	SE	/
M1 M1	20220108 20220108	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Middle	3.35 3.35	15:49 15:49	8.75	5 8.27 5 8.31	34.19 34.14	21.93 21.96	7.31	2.5	0.282	E SE	/
M1	20220108	Sunny	Moderate	Mid-Ebb	Bottom	5.7	15:48	8.71		34.06	21.86	8.14	5	0.269	E	/
M1 M2	20220108	Sunny	Moderate	Mid-Ebb	Bottom	5.7	15:48 15:35	8.73	8 8.29	34.03	21.86 21.89	8.20	7	0.288	SE	/
M2	20220108 20220108	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	15:35	9.02	8.30	33.65 33.50	21.89	8.22 8.56	4	0.280	SE	/
M2	20220108	Sunny	Moderate	Mid-Ebb	Middle	6.95	15:34	8.87	8.30	34.65	22.07	8.50	9	0.263	SE	/
M2 M2	20220108 20220108	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	6.95 12.9	15:34 15:33	8.79		34.59 34.60	21.99 22.02	8.51 8.12	9	0.282	SE SE	/
M2	20220108	Sunny	Moderate	Mid-Ebb	Bottom	12.9	15:33	8.79		34.78	21.99	8.12	3	0.294		/
M3	20220108	Sunny	Moderate	Mid-Ebb	Surface	1	16:03	9.43		34.52	22.28	8.20	4	0.200	E	/
M3 M3	20220108 20220108	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Middle	3.25	16:03 16:02	9.41		34.48 34.89	22.25 22.20	8.44	5	0.279	E	/
M3	20220108	Sunny	Moderate	Mid-Ebb	Middle	3.25	16:02	8.51		34.94	22.20	7.97	3	0.203	SE	/
M3	20220108	Sunny	Moderate	Mid-Ebb	Bottom	5.5	16:01	8.48		34.91	22.11	7.54	4	0.271	SE	/
M3 M4	20220108 20220108	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Surface	5.5	16:01 16:00	8.52	8.33 8.37	34.93 34.65	22.20 22.34	7.19	2.5	0.295	SE E	/
M4	20220108	Sunny	Moderate	Mid-Ebb	Surface	1	16:00	8.46	8.38	34.40	22.24	8.85	3	0.263	SE	/
M4 M4	20220108 20220108	Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom	4.4	16:39	8.25	8.32 8 8.30	34.19 34.07	22.03 22.12	8.48 8.56	4	0.268	E SF	/
C1	20220108	Sunny Sunny	Moderate Moderate	Mid-Ebb	Bottom Surface	4.4	16:39 11:44	8.08		34.07	22.12	3.26	3 11		E	/
C1	20220111	Sunny	Moderate	Mid-Ebb	Surface	1	11:44	8.38		34.72	20.41	3.19	11	0.281	SE	/
C1 C1	20220111 20220111	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Middle	11.5 11.5	11:43 11:43	8.38		34.61 34.76	20.31 20.27	3.48	14 14		SE SE	/
C1	20220111	Sunny	Moderate	Mid-Ebb	Bottom	22	11:42	8.34		34.70	20.14	3.58	6	0.296	SE	/
C1	20220111	Sunny	Moderate	Mid-Ebb	Bottom	22	11:42	8.40		34.74	20.24	3.47	5	0.283	E	/
C2 C2	20220111 20220111	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	12:38 12:38	8.97		35.99 35.95	20.31 20.29	2.72	5	0.299		/
C2	20220111	Sunny	Moderate	Mid-Ebb	Middle	11.1	12:37	8.93	8.27	35.85	20.26	2.58	5	0.283		/
C2 C2	20220111 20220111	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	11.1 21.2	12:37 12:36	9.06	8.32 8.32	35.86	20.37 20.22	2.57	3	0.278	E SE	/
C2	20220111	Sunny	Moderate	Mid-Ebb	Bottom	21.2	12:30	9.04		35.80	20.22	2.79	5	0.274	SE	/
M1	20220111	Sunny	Moderate	Mid-Ebb	Surface	1	12:13	8.87		35.40	20.44	2.27	4	0.296	E	/
M1 M1	20220111 20220111	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Middle	3.5	12:13 12:12	8.88	8 8.20 5 8.21	35.36	20.46 20.48	2.38	3	0.275	E SF	/
M1	20220111	Sunny	Moderate	Mid-Ebb	Middle	3.5	12:12	8.86		35.35	20.40	2.25	5	0.263	SE	/
M1	20220111	Sunny	Moderate	Mid-Ebb	Bottom	6	12:11	8.73		35.46	20.35	1.97	5	0.266	E	/
M1 M2	20220111 20220111	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Surface	6	12:11 11:59	8.74		35.35 34.59	20.32 20.16	2.12	3	0.271 0.263	E	/
M2	20220111	Sunny	Moderate	Mid-Ebb	Surface	1	11:59	8.62		34.44	20.13	2.90	3	0.267	SE	/
M2	20220111	Sunny	Moderate	Mid-Ebb	Middle	5.95	11:58	8.69		34.60	20.03	2.92	3	0.293	SE SF	/
M2 M2	20220111 20220111	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	5.95	11:58 11:57	8.68		34.46 34.60	20.01 20.12	2.88	3	0.289	SE	/
M2	20220111	Sunny	Moderate	Mid-Ebb	Bottom	10.9	11:57	8.75	8.25	34.59	20.02	2.99	5	0.278	E	/
M3 M3	20220111 20220111	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	12:26 12:26	8.82		35.94 35.83	20.23 20.32	1.97	2.5	0.292	SE F	/
M3	20220111		Moderate	Mid-Ebb	Middle	3.9	12:25	8.70		35.80	20.32	2.12	4		E	/
M3	20220111	Sunny	Moderate	Mid-Ebb	Middle	3.9	12:25	8.71		35.93	20.30 20.47	2.44	5	0.280	E	/
M3 M3	20220111 20220111	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Bottom	6.8 6.8	12:24	8.79		35.93 35.79	20.47	2.37	4	0.265	SE	/
M4	20220111	Sunny	Moderate	Mid-Ebb	Surface	1	12:56	8.80	8.32	35.72	20.24	2.33	2.5	0.292	SE	/
M4 M4	20220111 20220111	Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Bottom	1	12:56 12:55	8.83		35.75 35.62	20.17 20.25	2.25	2.5	0.291 0.295	E	/
M4 M4	20220111 20220111	Sunny Sunny	Moderate Moderate	Mid-Ebb		3.7	12:55	8.80		35.62	20.25	2.63	3	0.295	SE	/
C1	20220113		Moderate	Mid-Ebb	Surface	1	8:17	8.09		33.18	20.97	11.40	8	0.290		/
C1 C1	20220113 20220113	Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Middle	1 10.3	8:17 8:16	7.94		33.20 33.24	21.00 20.96	11.90 10.70	8	0.298	SE SE	/
C1	20220113	Cloudy	Moderate	Mid-Ebb	Middle	10.3	8:16	8.11	8.37	33.25	20.96	10.90	3	0.267	E	/
C1 C1	20220113 20220113	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Bottom	19.6 19.6	8:15 8:15	7.96		33.23 33.24	21.01 20.95	10.20 11.30	3	0.278	E	/
C1 C2	20220113 20220113	Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Surface	19.6	9:24	7.96		33.24 34.33	20.95	11.30	5			/
C2	20220113	Cloudy	Moderate	Mid-Ebb	Surface	1	9:24	8.66	8.16	34.37	21.14	10.40	4	0.283	SE	/
C2 C2		Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Middle	10.6	9:23 9:23	8.69		34.40 34.31	21.08 21.11	9.45 9.30	4	0.273		/
C2 C2	20220113	Cloudy Cloudy	Moderate Moderate	Mid-Ebb	Bottom	20.2	9:23	8.68		34.31 34.27	21.11 21.07	9.30	3	0.287	SE	/
C2	20220113	Cloudy	Moderate	Mid-Ebb	Bottom	20.2	9:22	8.65	8.20	34.39	21.15	9.12	2.5	0.280		/
M1 M1	20220113 20220113	Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	8:51 8:51	8.44		34.31 34.26	20.99 21.12	7.35	2.5	0.299	SE SE	/
M1	20220113	Cloudy	Moderate	Mid-Ebb	Middle	3.7	8:50	8.42	8.27	34.27	21.06	7.22	2.5	0.274		/
M1 M1	20220113 20220113	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	3.7	8:50	8.42		34.25 34.30	21.05	7.44	4	0.278	E	/
M1 M1		Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom	6.4	8:49 8:49	8.38		34.30	20.99	8.42	5	0.297	SE	/
M2	20220113	Cloudy	Moderate	Mid-Ebb	Surface	1	8:35	8.65	8.38	33.34	21.12	6.85	4	0.268	E	/
M2 M2	20220113 20220113	Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Middle	1 6.35	8:35 8:34	8.67		33.38 33.41	21.15 21.11	6.78 6.81	5	0.270	SE F	/
M2	20220113	Cloudy	Moderate	Mid-Ebb	Middle	6.35	8:34	8.64		33.41	21.11 21.15	7.23	5	0.299		/
M2	20220113	Cloudy	Moderate	Mid-Ebb	Bottom	11.7	8:33	8.60	8.36	33.29	21.20	7.65	5	0.277		/
M2 M3	20220113 20220113	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Surface	11.7	8:33 9:04	8.60		33.33 34.13	21.14 20.99	7.55	5	0.277	E	/
M3			Moderate	Mid-Ebb	Surface	1	9:04	8.92		34.13	20.99	6.94	2.5		E	/
M3	20220113	Cloudy	Moderate	Mid-Ebb	Middle	3.9	9:03	8.91	8.31	34.15	20.94	7.88	2.5	0.277		/
M3 M3	20220113 20220113	Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	3.9 6.8	9:03 9:02	8.92		34.21 34.19	20.93 21.01	8.11 8.94	3	0.263		/
M3	20220113	Cloudy	Moderate	Mid-Ebb	Bottom	6.8	9:02	8.93	8.26	34.25	21.00	8.65	3	0.263	SE	/
M4	20220113	Cloudy	Moderate	Mid-Ebb	Surface	1	9:48	8.68		33.57	20.83	6.99	4	0.296	SE	/
M4 M4	20220113 20220113	Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Bottom	4.6	9:48 9:47	8.71		33.49 33.56	20.91 20.93	6.68 7.18	3	0.277	E	/
M4	20220113		Moderate		Bottom	4.6	9:47	8.66		33.48	20.93	7.10	3		E	/

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1 1			Weather	Sea Condition Moderate	Tidal Mid-Ebb	Water Level	Depth (m) 1	Time 10.12	DO (mg/L) 9.01		Sal (ppt) 34.65	Temp (?) 20.63	Turbidty (NTU) 8 30	SS 10	Current Velocity (m/s)	Current Direction	Remark /
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					Mid-Ebb			10:10	9.13	8.37	34.59	20.62	8.45	6	0.281	SE	/
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C2 2020118 Couly Moderate Mat Etals Barters 22.1 21.3 90.9 1.55 31.86 23.2 23.80 1.65 4.30 0.55 4.30 0.55 4.30 0.55 4.30 0.55 4.3 0.574 C 0.774 C 0.774 <thc< th=""> <thc< th=""> 0.774</thc<></thc<>																E	/
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M1 2222113 Colum, Moderate Mode A 3.32 11.34 9.29 R.20 3.03 S.23 S.2 S.20		20220118	Cloudy	Moderate	Mid-Ebb	Surface	1	11:35	9.41	8.25	34.23	20.38	9.66	4	0.291	E	/
M1 2222113 Octor M Modernel Med Bb Battom 3.32 1.34 9.42 8.23 8.27 8.20 9.20 5.9 1.9 0.0376 [1.14 2022113 Grady Moderate Med Db Battom 5.5 1.13 3.21 4.27 4.20 5.44 4 0.2024 E.44 0.2024							2 25							3		E	/
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N2 2222118 Couly Moderate Mel Sib Settim 123 113 8.90 2.2 3.42 3.023 8.80 7 0.255 E / M3 2022118 Cody Moderate Mel Sb Setting 1 1159 3.04 3.12 4.12 3.12 4.12 3.12 4.12 3.12 4.12 3.12 4.12 4.12 3.12 4.12 4.12 4.12 4.12 4.12 4.12 4.12 4.12 4.12 <td></td> <td>SE</td> <td>/</td>																SE	/
1222 1222 1113 4.90 2.22 9.10 4 0.299 Sc ////////////////////////////////////														4		SE F	/
N3 222218 Courty Moderate M46 bb Made 3.3 1158 0.24 8.3 33.25 20.22 8.86 1 0.260 SF / N3 2022118 Courty Moderate M46 bb Mide 3.3 1158 0.22 8.21 8.30 20.22 8.86 1 0.277 SF / / N3 2022118 Courty Moderate M46 bb Bertom 6.6 1.157 0.27 8.13 8.30 20.22 8.86 3 0.026 SF / / 0.288 E 7 0.027 E 0.277 E 0.27 E 0.272 E 0.275 E 0.27 E											34.26			4		SE	/
NA3 2202118 Cloudy Moderate Midelba Midele 3.3 1158 9.2 8.38 20.22 6.66 10 0.298 8.7 ////////////////////////////////////							1							3		E	/
M3 20220118 (Cloudy Moderate Mid-Ebb Sottom 5.6 11:7 9.22 8.13 3.3.62 9.0.22 8.88 3 0.2248 [st / M4 20220118 (Cloudy Moderate Mid-Ebb Surface 1 12:44 8.33 3.32 3.04 20.27 8.81 4 0.2221 [st 0.0271 [st / // 0.271 [st / // 0.221 [st 0.021 [st 0.221 [st / / 0.221 [st / / / 0.221 [st 0.227 [st / / 0.221 [st 0.221 [3.3									SE	/
N3 20220118 (Coudy Moderate Mid-Ebb Sufface 1 1249 8.39 8.21 34.04 20.27 8.89 4 0.228 [E / M4 20220118 (Coudy Moderate Mid-Ebb Sufface 1 1249 8.42 34.04 20.27 8.61 4 0.222 [E / M4 20220118 (Coudy Moderate Mid-Ebb Sufface 1 1248 8.33 34.17 20.26 8.74 3 0.237 [S = 0.7 / / M4 20220120 Sumy Moderate Mid-Ebb Sufface 1 0.50947 8.78 8.19 34.04 20.31 13.07 2.2 8.11 20.15 9.77 2.2 34.11 20.15 10.7 7.5 0.275 [S = 0.7 / / C1 20.2202.02 Sumy Moderate Mid-Ebb Sufface 1 0.50978 8.21 33.17 20.14 10.03 5 0.226 [S = 0.7 / / C1 20.2202.02 Sumy Moderate Mid-Ebb Sufface 1 0.50988 8.78 8.21 33.01														8		SE	/
Number 2022113 Guay Moderate Mode Stress 1 12-49 8-39 221 44.04 20.24 8.62 7 0.271 F M4 2022113 Guay Moderate Md-Ebb Burrace 1 12-49 8-42 8.83 Mode 20.27 8.73 0.271 5.7 3 0.271 5.7 1 0.291 5.7 1 0.291 5.7 1 0.291 5.7 1 0.271 5.7 0.271 5.7 1 0.291 5.7 1 0.291 5.7 1 0.291 5.7 1 0.291 5.7 1 0.291 5.7 1 0.291 5.7 1 0.291 5.7 1 0.291 5.7 0.211 5.7 0.211 5.7 0.211 5.7 0.211 5.7 0.211 5.7 0.271 5.7 0.271 5.7 0.271 5.7 0.271 5.7 0.271 5.7 0.271 5.7 0.271							0.0							3		SE E	/
M4 2022118 Goody Moderate Mid-bb Battom 3.9 1248 8.4 8.3 8.4.12 20.27 8.79 3 0.679 E / C1 20220120 Summy Moderate Mid-bb Surface 1 0.9347 8.76 8.21 34.07 205 8.74 3 0.227 St 1 0.227 St 1 0.221 St 0.27 St 0.27 St 1 0.221 St 0.22 0.2	-	20220118		Moderate	Mid-Ebb	Surface	1	12:49	8.39	8.22	34.04	20.24	8.62	7	0.271	E	/
N4 2022012 Storder II Mid-Ebb Storface 1 2032 8.31 34.47 20.26 8.74 3 0.271 SE / C1 20220120 Summy Moderate Mid-Ebb Surface 1 0.53347 8.78 8.31 34.09 2015 10.7 2.5 0.27 St 7.7 1.6 20220120 Summy Moderate Mid-Ebb Sufface 1 0.53347 8.76 8.21 34.01 2016 10.3 5 0.28 St / / C1 20220120 Summy Moderate Mid-Ebb Butom 1.8.2 0.50208 8.71 8.21 34.01 20.14 10.4 0.276 St /							1							4		E	/
1 2022020 Summy Moderate Mid-Ebb Surface 1 0.59347 8.7.8 8.19 9.409 20.15 10.7 2.5 0.2.7 SE / C1 20220102 Summy Moderate Mid-Ebb Middle 9.6 0.50276 8.7.8 8.21 33.87 20.14 10.0 4 0.276 SE / / 10.202012 Summy Moderate Mid-Ebb Niddle 9.6 0.50276 8.6.6 8.21 33.91 20.14 10.0 4 0.275 SE / / 10.202012 Summy Moderate Mid-Ebb Bottom 18.2 0.50208 8.71 8.71 8.41 34.01 20.15 10.3 4 0.275 SE / / 12.2220120 Summy Moderate Mid-Ebb Surface 10.55111 8.71 8.71 8.30 20.21 8.27 3 0.275 SE / / 12.2220120 Summy Moderate Mid-Ebb Niddle 12.40 0.55111 8.71 8.31 3.32 20.32 7.							3.9							3		SE	/
1 20220120 Summy Moderate Mid-bb Middle 9.0 0.0278 6.8 /rg 8.21 33.87 20.14 10.3 5 0.269 SE / C1 20220120 Summy Moderate Mid-bb Bottom 18.2 0.50208 8.79 8.24 34.01 20.14 9.78 4 0.265 SE / C1 20220120 Summy Moderate Mid-bb Surface 1 0.56181 8.71 8.21 34.01 20.14 9.78 4 0.274 SE / C2 20220120 Summy Moderate Mid-bb Surface 1 0.56181 8.71 8.21 34.07 20.32 3 0.277 SE / / C2 20220120 Summy Moderate Mid-bb Surface 1 0.56181 8.77 8.18 33.9 20.31 7.92 3 0.273 SE / / C2 20220120 Summy Moderate Mid-bb Surface 1 0.5042 8.81 8.38		20220120	Sunny	Moderate	Mid-Ebb	Surface	1	0.50347	8.78	8.19	34.09	20.15	10.7		0.27		/
C1 20220120 Sunny Moderate Mid-Ebb Bottom 132 0.50026 8.79 8.24 3.301 20.14 9.79 4 0.276 SE / C1 20220120 Sunny Moderate Mid-Ebb Bottom 118.2 0.5008 8.71 8.21 34.07 20.15 10.3 4 0.274 SE / C2 20220120 Sunny Moderate Mid-Ebb Surface 1 0.56181 8.78 8.81 33.9 20.23 8.22 3 0.273 SE / C2 20220120 Sunny Moderate Mid-Ebb Surface 1 0.56181 8.78 8.18 33.9 20.32 R.57 3 0.623 SE / / 0.263 SE / / 0.263 SE / / 0.263 SE / 0.264 R.71 SE 3.46 20.32 R.52 4 0.264 R.71 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td>3</td><td></td><td></td><td>/</td></t<>							1							3			/
C1 20220120 Sumy Moderate Md-Ebb Bottom 18.2 0.5008 8.7.9 8.24 34.01 20.14 9.78 4 0.283 E / C1 20220120 Sumy Moderate Md-Ebb Surface 1 0.5618 8.77 8.26 34.01 20.23 8.22 3 0.279 5E / C2 20220120 Sunny Moderate Md-Ebb Surface 1 0.5618 8.72 8.18 33.9 20.31 7.92 3 0.279 5E / C2 20220120 Sunny Moderate Md-Ebb Midele 1.24.5 0.5611 8.7 8.25 3.416 20.32 7.9 3 0.263 SE / // C2 20220120 Sunny Moderate Md-Ebb Sufface 1 0.5333 8.95 8.25 3.89 20.18 8.59 3 0.263 SE / // // 0.2201														4			/
12 20220120 Summy Moderate Mid-Ebb Surface 1 0.5618 8.7 8.26 3.4.01 20.23 8.22 3 0.287 SE / C2 20220120 Summy Moderate Mid-Ebb Surface 10.56181 8.72 8.18 33.9 20.31 7.92 3 0.273 SE / C2 20220120 Summy Moderate Mid-Ebb Midele 12.45 0.56111 8.7 8.26 3.4.16 20.32 8.07 4 0.276 SE / C2 20220120 Summy Moderate Mid-Ebb Bottom 23.9 0.56042 8.81 8.18 3.82 20.4 8.79 3 0.275 E / / Mid 20.22012 Summy Moderate Mid-Ebb Sufface 1 0.53333 9.55 8.25 33.9 20.16 8.44 3 0.266 E / / Mi1 20220102		20220120	Sunny	Moderate	Mid-Ebb	Bottom	18.2	0.50208	8.79	8.24	34.01	20.14	9.78		0.285	SE	/
C2 20220120 Sumny Moderate Mid-Ebb Midele 1 0.56111 8.72 8.18 33.9 20.31 7.92 3 0.273 SE / C2 20220120 Sumny Moderate Mid-Ebb Midele 1.245 0.56111 8.77 8.18 33.9 20.32 8.07 4 0.276 SE / C2 20220120 Sumny Moderate Mid-Ebb Midele 1.245 0.56111 8.74 8.12 3.416 2.032 8.57 3 0.275 E / C2 20220120 Sumny Moderate Mid-Ebb Strafe 1 0.5333 8.55 8.25 3.389 20.16 8.44 3 0.265 SE / M1 20220120 Sumny Moderate Mid-Ebb Midele 3.35 0.53264 8.99 8.27 3.39 20.16 8.44 3 0.235 E / / Mid <							18.2										/
12 20220120 Sunny Moderate Mid-Ebb Midele 12.45 0.56111 8.74 8.25 34.16 20.32 7.59 3 0.263 SE / C2 20220120 Sunny Moderate Mid-Ebb Bottom 23.9 0.56042 8.81 8.18 33.82 20.24 8.79 3 0.273 E / / M1 20220120 Sunny Moderate Mid-Ebb Surface 1 0.53333 8.95 8.25 33.89 20.19 8.56 3 0.267 E / / M1 20220120 Sunny Moderate Mid-Ebb Surface 1 0.53333 8.95 8.25 33.99 20.18 8.59 3 0.268 E / / / // // M1 20220120 Sunny Moderate Mid-Ebb Surface 1 0.53343 9.07 8.21 34.06 20.11 8.2 4 0.268 E // / // // // // // Surfac		20220120	Sunny	Moderate	Mid-Ebb	Surface	1	0.56181	8.72	8.18	33.9	20.31	7.92		0.279		/
C2 20220120 Sunny Moderate Mid-Ebb Bottom 23.9 0.56042 8.81 8.18 33.82 20.24 8.79 3 0.275 E / C2 20220120 Sunny Moderate Mid-Ebb Bottom 23.9 0.56042 8.79 8.24 34.19 20.32 8.55 4 0.264 E / M1 20220120 Sunny Moderate Mid-Ebb Surface 1 0.53333 9.05 8.25 33.99 20.16 8.44 3 0.267 SE / M1 20220120 Sunny Moderate Mid-Ebb Middle 3.35 0.53264 8.96 8.2 33.99 20.11 8.28 3 0.266 E / M1 20220120 Sunny Moderate Mid-Ebb Bottom 5.7 0.5314 9.06 8.21 33.97 20.11 8.28 4 0.2861 E / / Mid 20.20102 Sunny Moderate Mid-Ebb Sotisita 9.07 8.24 8.33.														4			/
12 20220120 Sunny Moderate Mid-Ebb Bottom 23.9 0.56042 8.79 8.24 34.19 20.32 8.52 4 0.264 E / M1 20220120 Sunny Moderate Mid-Ebb Surface 1 0.53333 8.95 8.25 33.89 20.16 8.44 3 0.267 SE / M1 20220120 Sunny Moderate Mid-Ebb Surface 1 0.53333 8.95 8.27 33.99 20.16 8.44 3 0.267 SE / M1 20220120 Sunny Moderate Mid-Ebb Midle 3.35 0.53264 8.96 8.2 33.99 20.18 8.59 3 0.285 E / / M1 20220120 Sunny Moderate Mid-Ebb Bottom 5.7 0.5314 9.06 8.21 34.06 20.1 8.2 4 0.266 E / / Mid 8.26 8.33.75 20.1 8.64 5 0.352 / /														3		SE E	/
M1 20220120 Summy Moderate Mid-Ebb Surface 1 0.53333 9.05 8.25 33.9 20.16 8.44 3 0.0267 5E / M1 20220120 Sumny Moderate Mid-Ebb Middle 3.35 0.53264 8.96 8.2 33.99 20.18 8.59 3 0.266 E / M1 20220120 Sumny Moderate Mid-Ebb Sunface 1 0.53264 8.99 8.19 33.97 20.11 8.28 3 0.286 E / M1 20220120 Sunny Moderate Mid-Ebb Bottom 5.7 0.53194 9.06 8.21 34.06 20.1 8.2 4 0.281 E / / / / / / 0.23194 9.07 8.24 33.95 20.12 8.64 4 0.266 E / / / / / / / / / / / / / / / / / / <t< td=""><td></td><td>20220120</td><td></td><td>Moderate</td><td>Mid-Ebb</td><td></td><td></td><td>0.56042</td><td>8.79</td><td>8.24</td><td>34.19</td><td>20.32</td><td>8.52</td><td>4</td><td>0.264</td><td>E</td><td>/</td></t<>		20220120		Moderate	Mid-Ebb			0.56042	8.79	8.24	34.19	20.32	8.52	4	0.264	E	/
M1 20220120 Sunny Moderate Mid-Ebb Middle 3.3 0.53264 8.96 8.2 33.99 20.18 8.59 3 0.286 E / M1 20220120 Sunny Moderate Mid-Ebb Middle 3.35 0.53264 8.99 8.19 33.97 20.11 8.28 3 0.286 E / M1 20220120 Sunny Moderate Mid-Ebb Bottom 5.7 0.53194 9.06 8.21 34.06 20.11 8.24 4 0.281 E / M1 20220120 Sunny Moderate Mid-Ebb Surface 1 0.52083 8.21 8.40 20.12 8.46 4 0.268 E / M2 20220120 Sunny Moderate Mid-Ebb Surface 1 0.52083 8.2 8.18 33.75 20.12 8.46 6 0.288 E / / M2 20220120 Sunny Moderate Mid-Ebb Mid-Ebb Surface 1 0.51944 8.27							1							3		E	/
M1 20220120 Sunny Moderate Mid-Ebb Midle 3.3 0.53264 8.99 8.19 33.97 20.11 8.28 3 0.295 E / M1 20220120 Sunny Moderate Mid-Ebb Bottom 5.7 0.5314 9.06 8.21 34.06 20.1 8.2 4 0.281 E / M1 20220120 Sunny Moderate Mid-Ebb Sutom 5.7 0.5314 9.07 8.24 34.06 20.1 8.2 4 0.266 E / M2 20220120 Sunny Moderate Mid-Ebb Surface 1 0.52083 8.2 8.18 33.73 20.12 8.86 0.288 E / M2 20220120 Sunny Moderate Mid-Ebb Surface 1 0.52084 8.27 8.12 33.62 20.18 8.38 5 0.268 E / M2 20220120 Su							3.35							3		E	/
N1 20220120 Sumy Moderate Mid-Ebb Bottom 5.7 0.53194 9.07 8.24 33.96 20.12 8.46 4 0.266 E / M2 20220120 Sumy Moderate Mid-Ebb Surface 1 0.52083 8.2 8.18 33.75 20.1 8.46 5 0.3 5E / M2 20220120 Sumy Moderate Mid-Ebb Surface 1 0.52083 8.2 8.14 33.55 20.12 8.48 6 0.288 E / M2 20220120 Sumy Moderate Mid-Ebb Midle 6 0.52014 8.24 8.18 33.73 20.12 8.35 5 0.288 E / M2 20220120 Sumy Moderate Mid-Ebb Bottom 11 0.51944 8.28 8.17 33.63 20.17 8.3 7 0.292 5 / / M3		20220120	Sunny	Moderate	Mid-Ebb	Middle	3.35	0.53264	8.99	8.19	33.97	20.11	8.28	-	0.295	E	/
M2 20220120 Summy Moderate Mid-Ebb Surface 1 0.52083 8.2 8.18 33.75 20.1 8.64 5 0.3 5E / M2 20220120 Sumny Moderate Mid-Ebb Surface 1 0.52083 8.2 8.14 33.75 20.12 8.84 6 0.268 E / M2 20220120 Sunny Moderate Mid-Ebb Midle 6 0.52014 8.24 8.18 33.73 20.12 8.35 5 0.268 E / M2 20220120 Sunny Moderate Mid-Ebb Bottom 11 0.51944 8.28 8.17 33.63 20.17 8.3 7 0.294 E / M3 20220120 Sunny Moderate Mid-Ebb Surface 1 0.54833 8.56 8.9 33.89 20.3 7.84 4 0.292 SE / M3 20220120 <td></td> <td>E</td> <td>/</td>																E	/
Int 20220120 Summy Moderate Mid-Ebs Surface 1 0.52083 8.2 8.14 33.55 20.12 8.48 6 0.288 E / M2 20220120 Sumny Moderate Mid-Ebs Middle 6 0.52014 8.24 8.18 33.73 20.12 8.48 6 0.288 E / M2 20220120 Sumny Moderate Mid-Ebs Middle 6 0.52014 8.24 8.18 33.73 20.12 8.38 5 0.268 E / M2 20220120 Sunny Moderate Mid-Ebs Bottom 11 0.51944 8.28 8.17 33.63 20.17 8.3 7 0.294 E / / M3 20220120 Sunny Moderate Mid-Ebs Surface 1 0.54583 8.56 8.19 34.02 20.27 7.93 4 0.292 SE / M3 20220120 Sunny Moderate Mid-Ebs Surface 1<0.54583							5./							4			/
M2 20220120 Sunny Moderate Mid-Ebb Middle 6 0.52014 8.27 8.12 33.62 20.18 8.38 5 0.288 E / M2 20220120 Sunny Moderate Mid-Ebb Bottom 11 0.51944 8.28 8.17 33.63 20.17 8.3 7 0.294 E / M2 20220120 Sunny Moderate Mid-Ebb Bottom 11 0.51944 8.3 8.14 33.72 20.1 8.71 7 0.294 E / M3 20220120 Sunny Moderate Mid-Ebb Surface 1 0.54533 8.52 8.19 33.89 20.3 7.88 4 0.269 SE / M3 20220120 Sunny Moderate Mid-Ebb Surface 7.1 0.54514 8.58 8.27 34.16 20.25 7.97 3 0.277 SE / M3 2022		20220120	Sunny	Moderate	Mid-Ebb	Surface	1	0.52083	8.2	8.14	33.55	20.12	8.48	6	0.288	E	/
N2 20220120 Summy Moderate Mid-Ebb Bottom 11 0.51944 8.28 8.17 33.63 20.17 8.3 7 0.294 E / M2 20220120 Sunny Moderate Mid-Ebb Bottom 11 0.51944 8.3 8.14 33.72 20.1 8.71 7 0.294 E / M3 20220120 Sunny Moderate Mid-Ebb Surface 1 0.54583 8.56 19 40.2 20.27 7.93 4 0.292 5 / M3 20220120 Sunny Moderate Mid-Ebb Surface 1 0.54583 8.52 8.19 33.89 20.3 7.88 4 0.269 5 / M3 20220120 Sunny Moderate Mid-Ebb Midele 4.05 0.54514 8.58 8.27 34.2 20.3 7.84 6 0.29 5 / / M3							6 c							5		F	/
M3 20220120 Sunny Moderate Mid-Ebb Surface 1 0.54583 8.56 8.19 34.02 20.27 7.93 4 0.292 5£ / M3 20220120 Sunny Moderate Mid-Ebb Surface 1 0.54583 8.52 8.19 33.89 20.3 7.88 4 0.269 5£ / M3 20220120 Sunny Moderate Mid-Ebb Surface 1 0.54514 8.58 8.26 34.16 20.25 7.97 3 0.277 55 / M3 20220120 Sunny Moderate Mid-Ebb Midele 4.05 0.54514 8.58 8.27 34.2 20.3 7.84 6 0.29 95 / M3 20220120 Sunny Moderate Mid-Ebb Bottom 7.1 0.54444 8.56 8.21 34.12 20.26 7.57 3 0.294 95 / /		20220120	Sunny		Mid-Ebb			0.51944			33.63	20.17	8.3	7	0.294		/
N3 20220120 Sunny Moderate Mid-Ebb Surface 1 0.59433 8.52 8.19 33.89 20.3 7.88 4 0.269 55 / M3 20220120 Sunny Moderate Mid-Ebb Mididle 4.05 0.54514 8.5 8.26 34.16 20.25 7.97 3 0.277 55 / M3 20220120 Sunny Moderate Mid-Ebb Mididle 4.05 0.54514 8.58 8.27 34.2 20.3 7.84 6 0.29 55 / M3 20220120 Sunny Moderate Mid-Ebb Bottom 7.1 0.54444 8.56 8.21 34.2 20.26 7.57 3 0.294 §E / M4 20220120 Sunny Moderate Mid-Ebb Sunface 1 0.58125 8.97 8.21 34.22 20.26 7.57 4 0.299 §E / M4 20220120 Sunny Moderate Mid-Ebb <td< td=""><td></td><td>20220120</td><td>Sunny</td><td>Moderate</td><td>Mid-Ebb</td><td>Bottom</td><td>11</td><td>0.51944</td><td>8.3</td><td>8.14</td><td>33.72</td><td>20.1</td><td>8.71</td><td>7</td><td>0.292</td><td>SE</td><td>/</td></td<>		20220120	Sunny	Moderate	Mid-Ebb	Bottom	11	0.51944	8.3	8.14	33.72	20.1	8.71	7	0.292	SE	/
M3 20220120 Sunny Moderate Mid-Ebb Middle 4.05 0.54514 8.5 8.26 34.16 20.25 7.97 3 0.277 5E / M3 20220120 Sunny Moderate Mid-Ebb Middle 4.05 0.54514 8.58 8.27 3.42 20.3 7.84 6 0.29 9E / M3 20220120 Sunny Moderate Mid-Ebb 80tom 7.1 0.54444 8.68 8.21 34.12 20.26 7.57 3 0.294 9E / M3 20220120 Sunny Moderate Mid-Ebb Bottom 7.1 0.54444 8.68 8.19 34.09 20.25 7.57 4 0.299 9E / M4 20220120 Sunny Moderate Mid-Ebb Surface 1 0.58125 8.97 8.26 33.92 20.29 8.64 3 0.273 9E / M4 20220120 Sunny Moderate Mid-Ebb <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>/</td></td<>							1										/
M3 20220120 Sunny Moderate Mid-Ebb Bottom 7.1 0.54444 8.6 8.21 34.12 20.26 7.57 3 0.294 SE / M3 20220120 Sunny Moderate Mid-Ebb Bottom 7.1 0.54444 8.56 8.19 34.02 20.25 7.57 3 0.294 SE / M4 20220120 Sunny Moderate Mid-Ebb Surface 1 0.58125 8.97 8.2 33.92 20.29 8.64 3 0.277 SE / M4 20220120 Sunny Moderate Mid-Ebb Surface 1 0.58125 8.97 8.2 33.92 20.29 8.64 3 0.277 SE / M4 20220120 Sunny Moderate Mid-Ebb Surface 1 0.58125 8.97 8.26 33.85 20.25 8.55 3 0.293 SE / M4 20220120 Sunny Moderate Mid-Ebb B		20220120		Moderate	Mid-Ebb	Middle		0.54514	8.5	8.26	34.16	20.25	7.97	3	0.277	SE	/
M3 20220120 Sunny Moderate Mid-Ebb Bottom 7.1 0.54444 8.56 8.19 34.09 20.25 7.57 4 0.299 5£ / M4 20220120 Sunny Moderate Mid-Ebb Surface 1 0.58125 8.97 8.2 33.92 20.29 8.64 3 0.279 5£ / M4 20220120 Sunny Moderate Mid-Ebb Surface 1 0.58125 8.97 8.2 33.92 20.29 8.64 3 0.279 5£ / M4 20220120 Sunny Moderate Mid-Ebb Surface 1 0.58125 8.97 8.26 33.85 20.25 8.55 3 0.273 5£ / M4 20220120 Sunny Moderate Mid-Ebb Stotom 4.1 0.58056 8.94 8.26 33.85 20.26 8.85 5 0.295 5£ /														•			/
N4 20220120 Sunny Moderate Mid-Ebb Surface 1 0.58125 8.97 8.2 33.92 20.29 8.64 3 0.277 55 / M4 20220120 Sunny Moderate Mid-Ebb Surface 1 0.58125 8.97 8.26 33.99 20.25 8.55 3 0.273 55 / M4 20220120 Sunny Moderate Mid-Ebb Bottom 4.1 0.58025 8.97 8.26 33.89 20.25 8.85 0.293 55 / M4 20220120 Sunny Moderate Mid-Ebb Bottom 4.1 0.58025 8.94 8.26 3.88 20.25 8.85 0.293 55 /														-			/
M4 20220120 Sunny Moderate Mid-Ebb Bottom 4.1 0.58056 8.94 8.26 33.85 20.26 8.85 5 0.295 SE /		20220120	Sunny	Moderate	Mid-Ebb	Surface	1	0.58125	8.97	8.2	33.92	20.29	8.64	3	0.277		/
							1							3		-	/
M4 20220120 Sunny Moderate Mid-Ebb Bottom 4.1 0.58056 9 8.27 33.73 20.29 8.79 5 0.274 E /		20220120		Moderate Moderate		Bottom Bottom		0.58056			33.85	20.26 20.29	8.85 8.79	5			/

M2 202202 Slowh Mederate <																	1
0.1 Non-Solve Non-Solve<	Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pН	Sal (ppt)	Temp (?)	Turbidty (NTU)	SS	Current Velocity (m/s)	Current Direction	Remark
1 bolta bolta <th< td=""><td>-</td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td>SE</td><td>/</td></th<>	-						1		-							SE	/
3.1 Burkey box Mate Mate Mate Mate	-						9,75									E SE	/
0 0	C1	20220122		Moderate	Mid-Ebb			0.56181			34.36	20.08	9		0.283	E	/
C Correl Corre Corre Corre	-															SE	/
C None N							18.5									SE	/
C COUND LOW MODE MADE MADE MADE <							1										/
C Solor Mode Mode <																SE F	/
Unit Unit <thunit< th=""> Unit Unit <thu< td=""><td>C2</td><td>20220122</td><td></td><td></td><td>Mid-Ebb</td><td></td><td>23.1</td><td>0.61944</td><td>9.13</td><td>8.22</td><td>34.22</td><td>20.07</td><td>8.07</td><td>11</td><td>0.294</td><td>SE</td><td>/</td></thu<></thunit<>	C2	20220122			Mid-Ebb		23.1	0.61944	9.13	8.22	34.22	20.07	8.07	11	0.294	SE	/
Num Num </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>23.1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>SE</td> <td>/</td>							23.1									SE	/
Unit Unit <thunit< th=""> Unit Unit <thu< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>/</td></thu<></thunit<>							1										/
Dist Dist <thdist< th=""> Dist Dist <th< td=""><td></td><td></td><td>Cloudy</td><td>Moderate</td><td>Mid-Ebb</td><td>Middle</td><td>-</td><td></td><td>8.89</td><td>8.19</td><td>34.5</td><td>20.25</td><td>7.06</td><td>5</td><td>0.292</td><td>SE</td><td>/</td></th<></thdist<>			Cloudy	Moderate	Mid-Ebb	Middle	-		8.89	8.19	34.5	20.25	7.06	5	0.292	SE	/
Unit Unit Unit Int																E SF	/
Norm Norm <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>E</td><td>/</td></t<>																E	/
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Dist Dist <thdist< th=""> Dist Dist <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>6.2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>SE</td><td>/</td></th<></thdist<>							6.2									SE	/
UD Displicit of the sector of t	M2	20220122	Cloudy	Moderate	Mid-Ebb	Middle	6.2	0.60556	8.78	8.17	34.42	20.19	6.79	7	0.299	E	/
Disp Disp <thdisp< th=""> Disp Disp <thd< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>7</td><td></td><td>SE</td><td>/</td></thd<></thdisp<>														7		SE	/
Image Image <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>10</td><td></td><td>SE</td><td>/</td></t<>														10		SE	/
10.1 10.200 10.200 <td>M3</td> <td>20220122</td> <td>Cloudy</td> <td>Moderate</td> <td>Mid-Ebb</td> <td>Surface</td> <td>1</td> <td>0.57569</td> <td>9.07</td> <td>8.16</td> <td>34.23</td> <td>20.06</td> <td>7.1</td> <td></td> <td>0.286</td> <td></td> <td>/</td>	M3	20220122	Cloudy	Moderate	Mid-Ebb	Surface	1	0.57569	9.07	8.16	34.23	20.06	7.1		0.286		/
10.100 2002.00 Mode Made Made Made <														6		SE SE	/
Method Method Method Mathod Mathod Mathod<	M3	20220122	Cloudy	Moderate	Mid-Ebb	Bottom	6.2	0.57431	9.02	8.15	34.13	20.12	7.17	7	0.29		/
Method Mathod							6.2							7			/
Meth Subble Meth							1									E	/
C. Soluty Moders		20220122	Cloudy	Moderate	Mid-Ebb	Bottom		0.63125	9.33	8.18	33.57	19.98	7.17		0.265	SE	/
C. B12321 Cooly Medges							4.1									E	/
C Sigeng Sindy Moders Moders<	C1	20220125	Cloudy	Moderate	Mid-Ebb	Surface	1	0.65694	9.22	8.04	33.57	20.24	10.7	-	0.3		/
C3 Solar) Solar) Solar) Made Made <td></td> <td>5</td> <td></td> <td>52</td> <td>/</td>														5		52	/
C Distally Body Modes <	C1	20220125		Moderate	Mid-Ebb		19.6	0.65556	9.32	8.11	33.43	20.16	9.5	3	0.277	E	/
C S </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>19.6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>SE</td> <td>/</td>							19.6									SE	/
C3 202005 Condy Modente Mode Mode 11.6 3.714 6.20 40.50 6.20 2.012 6.20 7.20							1									E SE	/
C1 202013 Oxford Models	C2	20220125	Cloudy	Moderate	Mid-Ebb	Middle	-	0.70764	9.37	8.09	34.04	20.15	9.3		0.278		/
C Description Modeles Modeles Munte Burton D2112 Dambe D312 D314 D314 D312 D314 D314 <thd314< th=""> <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>4</td><td></td><td></td><td>/</td></t<></thd314<>														4			/
M1 202033 Gody Meder Meder <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5</td><td></td><td>E</td><td>/</td></t<>														5		E	/
M1 2223122 Conv. Moderate Mode Mode 3.7 0.788 M3 3.59 7.27 4 0.717 C 0 0.717 C 0 0.718 C M <							1							5		SE	/
M1 S223123 Gouly Median Median M31 B M31 M31 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>3.7</td><td></td><td></td><td></td><td></td><td></td><td></td><td>5</td><td></td><td>F</td><td>/</td></t<>							3.7							5		F	/
Mi S22002 Outy Moders Mode bis Series 6 6 9 80 9.00 9.	M1	20220125			Mid-Ebb			0.67986	9.31	8.09	34.17	20.17	7.62	4	0.286	SE	/
Nall S20212 Coury Modente Marche Burfare Nall Second Barla Second Barla <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>E</td> <td>/</td>							-									E	/
N2 222202 Clocy Moderale Mote be Mode be Georg Georg <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>/</td>							0.4										/
N2 2022012 Clocyth Moderale Methale Methale Sector 9.601 8.11 3.4.8 9.01 8.201 6.01 0.202 E. M. 102 1220202 Clocyth Moderate Methale Sector 1.01 0.6605 9.02 8.13 3.4.4 20.1 6.8.8 6 0.022 F. 1.01 0.01 8.8 0.01 0.022 0.01 0.022 F. 1.01 0.01 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4</td> <td></td> <td></td> <td>/</td>							1							4			/
N2 202202 Clocky Mederate Metho Bettom 12.0 0.6865 9 8.12 9.44 7.03 6.88 4 0.777 K M3 2022023 Chocky Moderate Metho Surface 1 0.0375 8.67 8.63 2.017 0.091 5 0.038 K 0.0275 Surface 1 0.0375 8.67 8.61 3.30 2.017 0.091 5 0.038 K 0.0275 Surface 1 0.0275 K K K 0.021 C.0.01 0.0275 K K K 0.021 C.0.01 0.021 K K 0.021 Surface N N 0.021 K N 0.022 Surface N														5			/
NB 202203 Jow Moderate Michae Jowarse I 0.63375 6.7.4 6.88 Jou Jou Jou Jou Jou	M2								9		34.47			5		SE	/
Nine 202202 Jow Moderate Methe Market 1 0.6375 6.67 6.16 0.037 0.037 0.037 0.037 0.027 0.37 0.027 0.3 0.275 0.27 0.3 0.275 0.27 0.3 0.275 0.27 0.3 0.275							12.9									E	/
M3 202212 Outy Moderate Md-bb Modes S.4 0.69236 8.8 8.15 20.16 9.17 5 0.239 E / M3 202212 Oudy Moderate Md-bb Batom 5.8 6.69236 8.78 8.10 33.86 20.16 9.71 5 0.239 E / M4 2022125 Goudy Moderate Md-bb Straftee 1 0.7261 9.48 8.11 8.408 2022 7.42 5 0.277 Straftee / 1 0.7261 9.48 5 0.023 E 0.277 Straftee / 1 0.7222 9.77 8.13 8.402 2021 7.41 6 0.0272 Straftee / 1 0.0217 0.049 Moderate Md-bb	-						1									SE	/
M3 202212 Gody Moderate Me4-bb Betom S.B 0.69236 8.78 805 20.13 9.917 S 0.298 E / M4 202212 Gody Moderate Me4-bb Strike I 0.7281 9.93 812 33.86 20.21 7.45 6 0.2277 SE / //							-									E	/
M3 2020135 [Cudy Moderate Md+Ebs Bertom 5.8 0.676 8.76 8.12 3.84 0.20 7.93 7.027 0.2028 Cudy A M4 2020135 [Cudy Moderate Md+Ebs Surface 1 0.7361 9.498 8.10 9.202 7.45 6 0.0273 5 0.272 7 0.283 0.8340 8.57 7.88 2.224 1.954 0.938 5 0.283 1.852 0.938 8.52 1.938 1.954 0.938 5 0.283 1.954 0.938 5 0.225 1.934 0.234 1.944 1.93							.									E	/
M4 2020125 [Coudy Moderate M4-Ebb Surface 1 0 9 8 3 0 20.27 7.45 6 0.2777 SE / M4 2020125 [Coudy Moderate M4-Ebb Battom 38 0.7292 9.38 8.08 30.07 20.34 7.28 5 0.2737 SE / / 0.2737 SE / / 0.2737 SE / / 0.2737 SE / / 0.2737 SE / 0.273 SE 0.2737 SE / 0.273 SE 0.273 SE <td>M3</td> <td>20220125</td> <td>Cloudy</td> <td>Moderate</td> <td>Mid-Ebb</td> <td>Bottom</td> <td></td> <td>0.69236</td> <td>8.76</td> <td>8.15</td> <td>33.96</td> <td>20.13</td> <td>9.05</td> <td>5</td> <td></td> <td>E</td> <td>/</td>	M3	20220125	Cloudy	Moderate	Mid-Ebb	Bottom		0.69236	8.76	8.15	33.96	20.13	9.05	5		E	/
M4 2020125 [Coudy Moderate M4-bb Battom 3.8 0.722 9.97 8.13 3.407 2.0.41 7.28 5 0.2717 Sec / C1 2020127 [Coudy Moderate M4-bb Surface 1 0.3347 R.83 7.83 2.83 19.94 9.94 5 0.238 Sec / 1.21 C1 2020127 [Coudy Moderate M4-bb Midde 9.6 0.3343 R.857 7.91 3.28 1.996 9.21 0.208 Sec 1.26 0.267 Sec 1.26 1202127 [Coudy Moderate M4-bb Nether 1.81<0							1							7			/
C1 2022027 Cloudy Moderate Mide bb Surface 1 0.3472 8.83 2.28 19.94 9.84 5 0.263 [E / C1 2022027 Cloudy Moderate Mide bb Mide bb 0.3403 8.66 20.28 19.96 9.73 5 0.263 [E / / C1 2022027 Cloudy Moderate Mide bb Mide bb 0.3403 8.67 7.9 3.246 19.94 9.93 5 0.263 [E / / / / / / / 0.227 [E / / / / / / / 1.0 3.333 8.6 7.8 3.244 19.94 9.32 6 0.267 [E / <	M4						3.8							-			/
C1 2020127 Oudy Moderate Md+Ebb Midde 10.3372 8.84 8.01 32.28 19.99 9.71 5 0.289 SC 0.276 SC 0.277 SC 0.276 SC 0.277 SC 0.277 SC 0.277 SC 0.277 SC 0.277 SC	M4						3.8							6		SE	/
C1 2020127 Cloudy Moderate Mideb	C1 C1						1							5		SE	/
C1 20220127 Cloudy Moderate Mid-bb Bottom 182 0.3333 8.6 7.96 32.34 19.94 9.16 4 0.276 SE // C1 20220127 Cloudy Moderate Mid-bb Surface 1 0.37431 8.7 8.04 19.94 9.32 6 0.272 C 0.272 C 0.272 C 0.272 C 0.273 Si 7.96 3.248 20.06 7.81 5 0.273 Si 7.40 C2 20220127 Cloudy Moderate Mid-bb Mid-die 10.15 0.37361 8.62 7.86 3.248 20.06 8.13 5 0.226 Si / C2 20220127 Cloudy Moderate Mid-b 10.3127 8.66 8.08 3.236 20.07 8.96 4 0.238 Si / / 0.265 Si / / 0.275 / / /	C1	20220127	Cloudy	Moderate	Mid-Ebb	Middle		0.33403	8.65	7.88	32.43	19.96	9.38	5	0.267	E	/
C1 20220127 Cloudy Moderate Mid-Ebb Sourface 1 3.3333 8.6 7.8 3.2.44 19.94 9.92 6 0.272 E / C2 20220127 Cloudy Moderate Mid-Ebb Surface 1 0.37431 8.66 8.11 32.44 20.02 8.19 5 0.267 55 / C2 20220127 Cloudy Moderate Mid-Ebb Mid-Eb 0.37431 8.62 7.98 32.38 2.0.66 8.13 5 0.293 SE / C1 20220127 Cloudy Moderate Mid-Eb Bottom 1.33 3.7292 8.68 8.08 32.62 2.007 8.64 0.283 E / / M1 20220127 Cloudy Moderate Mid-Eb Surface 1 3.3272 8.68 8.07 33.03 2.007 6.63 4 0.285 E / / / /														5		SE SE	/
C2 2022012 Oudy Moderate Mid-Ebb Surface 1 0.7431 8.66 8.11 32.48 20.21 8.19 5 0.7293 SE / C2 20220127 Goudy Moderate Mid-Ebb Middle 10.15 0.37361 8.62 7.8 23.33 20.06 8.13 5 0.2963 K / C2 20220127 Goudy Moderate Mid-Ebb Bottom 19.3 0.37292 8.62 8.06 32.41 20.04 8.09 4 0.233 SC / C2 20220127 Goudy Moderate Mid-Ebb Bottom 19.3<0.37292	C1	20220127	Cloudy	Moderate	Mid-Ebb	Bottom		0.33333	8.6	7.88	32.44	19.94	9.32	6	0.272	E	/
C2 20220127 Cloudy Moderate Mid-Ebb Middle 10.15 0.37361 8.62 7.98 32.38 20.06 8.13 5 0.296 SE / C2 20220127 Cloudy Moderate Mid-Ebb Bottom 19.3 0.37292 8.62 8.06 32.41 2.044 8.09 4 0.238 C / C2 20220127 Cloudy Moderate Mid-Ebb Bottom 19.3 0.37292 8.62 8.06 32.41 2.040 8.09 4 0.238 C / M1 20220127 Cloudy Moderate Mid-Ebb Surface 1 0.35278 8.67 8.15 3.13 2.008 7.12 3 0.275 E / M1 20220127 Cloudy Moderate Mid-Ebb Surface 1 0.3528 8.51 8.17 32.96 2.00 7.12 3 0.275 E / M1	C2						1							5			/
C2 20220127 Cloudy Moderate Mid-Ebb Middle 10.15 0.37261 8.8.7 8.04 32.36 20.12 8.8 4 0.268 E / C2 20220127 Cloudy Moderate Mid-Ebb Bottom 193 0.37292 8.8.6 8.06 32.34 20.004 8.09 4 0.293 SE / M1 20220127 Cloudy Moderate Mid-Ebb Strate 11 0.5727 8.66 8.07 33.03 20.07 6.93 4 0.2263 E / M1 20220127 Cloudy Moderate Mid-Ebb Strate 8.17 32.96 20.08 7.12 3 0.2757 E / M1 20220127 Cloudy Moderate Mid-Ebb Midule 3.4 0.35208 8.51 8.13 32.97 2.01 7.4 4 0.301 SE / M1 20220127 Cloudy Moderat							10.15							5			/
C2 20220127 Cloudy Moderate Mid-Ebb Bottom 19.3 0.37292 8.65 8.08 32.36 20.07 8.66 4 0.28 E / M1 20220127 Cloudy Moderate Mid-Ebb Surface 1 0.35278 8.67 8.57 8.15 33.13 20.08 7.03 4 0.269 5E / M1 20220127 Cloudy Moderate Mid-Ebb Midle 3.4 0.35208 8.57 8.17 32.96 20.08 7.12 3 0.0757 E / M1 20220127 Cloudy Moderate Mid-Ebb Midle 3.4 0.35139 8.56 8.1 3.01 2.01 8.56 4 0.288 E / M1 20220127 Cloudy Moderate Mid-Ebb Sufface 1 0.34514 8.78 8.1 3.2.17 19.98 5.56 4 0.288 E / / M2 20220127 Cloudy Moderate Mid-Ebb Sufface 1	C2	20220127	Cloudy	Moderate	Mid-Ebb	Middle	10.15	0.37361	8.72	8.04	32.36	20.12	8.8		0.268	E	/
M1 20220127 Cloudy Moderate Mid-Ebs Surface 1 0.35278 8.6 8.07 33.03 20.07 6.6.93 4 0.265 EE / M1 20220127 Cloudy Moderate Mid-Ebs Surface 1 0.35278 8.57 8.15 33.13 20.08 7.03 4 0.245 EC / M1 20220127 Cloudy Moderate Mid-Ebs Midle 3.4 0.35208 8.51 8.17 3.3.09 2.0.1 7.4 4 0.301 SE / M1 20220127 Cloudy Moderate Mid-Ebs Bottom 5.8 0.35139 8.56 8.08 32.94 2.01 8.36 4 0.208 SE / M1 20220127 Cloudy Moderate Mid-Ebs Surface 1 0.34514 8.7 8.2 3.267 19.98 5.66 4 0.203 SE / M2 20220127 Cloudy Moderate Mid-Ebs Surface 1 0.34514 8.														4 4		SE E	/
M1 20220127 Cloudy Moderate Mid-Eb Middle 3.4 0.35208 8.5 8.17 32.96 20.08 7.12 3 0.275 E / M1 20220127 Cloudy Moderate Mid-Eb Midele 3.4 0.35208 8.61 8.13 32.97 20.1 7.4 4 0.301 SE / M1 20220127 Cloudy Moderate Mid-Eb Bottom 5.8 0.35139 8.55 8.08 32.94 20.1 8.36 4 0.208 E / M2 20220127 Cloudy Moderate Mid-Eb Surface 1 0.34514 8.87 8.2 32.76 19.98 5.56 4 0.3027 SE / M2 20220127 Cloudy Moderate Mid-Eb Surface 1 0.34514 8.87 8.1 32.76 20 5.54 3 0.275 E / / M2 20220127 Cloudy Moderate Mid-Eb Surface 1 0.34514 <t< td=""><td>M1</td><td>20220127</td><td></td><td></td><td>Mid-Ebb</td><td>Surface</td><td>15.5</td><td>0.35278</td><td>8.6</td><td>8.07</td><td>33.03</td><td>20.07</td><td>6.93</td><td></td><td>0.265</td><td>SE</td><td>/</td></t<>	M1	20220127			Mid-Ebb	Surface	15.5	0.35278	8.6	8.07	33.03	20.07	6.93		0.265	SE	/
M1 20220127 Cloudy Moderate Mid-Ebb Midle 3.4 0.35208 8.61 8.13 32.97 20.1 7.4 4 0.301 SE / M1 20220127 Cloudy Moderate Mid-Ebb Bottom 5.8 0.35139 8.856 8.1 3.01 2.001 8.11 4 0.288 E / M1 20220127 Cloudy Moderate Mid-Ebb Suttom 5.8 0.35139 8.856 8.1 3.01 2.01 8.36 4 0.288 E / M2 20220127 Cloudy Moderate Mid-Ebb Surface 1 0.3451 8.82 8.17 32.72 19.98 5.66 3 0.278 SE / M2 20220127 Cloudy Moderate Mid-Ebb Surface 1 0.3451 8.81 32.76 19.98 5.66 3 0.278 E / / M2 20220127 Cloudy Moderate Mid-Ebb Surface 1 0.3437 8.78							1									SE	/
M1 20220127 Cloudy Moderate Mid-Ebb Bottom 5.8 0.35139 8.56 8.1 33.01 20.01 8.11 4 0.284 E / M1 20220127 Cloudy Moderate Mid-Ebb Bottom 5.8 0.35139 8.55 8.08 32.94 20.1 8.36 4 0.288 E / M2 20220127 Cloudy Moderate Mid-Ebb Surface 1 0.34514 8.72 22 32.67 19.98 5.66 4 0.288 E / M2 20220127 Cloudy Moderate Mid-Ebb Surface 1 0.34514 8.87 32.76 19.98 5.66 3 0.277 E / M2 20220127 Cloudy Moderate Mid-Ebb Surface 1 0.3475 8.73 8.18 32.77 19.98 6.62 4 0.288 E / M2 20220127 Cloudy Moderate Mid-Ebb Surface 1 0.3455 8.81 8.08	M1 M1															SE	/
M2 2022012 Cloudy Moderate Mid-Ebb Surface 1 0.3451 8.82 3.267 19.98 5.69 4 0.301 EC / M2 2022012 Cloudy Moderate Mid-Ebb Surface 1 0.3451 8.88 8.17 32.72 19.96 5.66 3 0.274 5C / // M2 2022017 Cloudy Moderate Mid-Ebb Surface 5.9 3.444 8.73 8.1 32.76 20 5.94 5 0.228 E / /// /// // // <td>M1</td> <td>20220127</td> <td>Cloudy</td> <td>Moderate</td> <td>Mid-Ebb</td> <td>Bottom</td> <td>5.8</td> <td>0.35139</td> <td>8.56</td> <td>8.1</td> <td>33.01</td> <td>20.01</td> <td>8.11</td> <td>4</td> <td>0.284</td> <td>E</td> <td>/</td>	M1	20220127	Cloudy	Moderate	Mid-Ebb	Bottom	5.8	0.35139	8.56	8.1	33.01	20.01	8.11	4	0.284	E	/
M2 20220127 Cloudy Moderate Mid-Ebs Surface 1 0.34514 8.8 8.17 32.72 19.96 5.66 3 0.278 SE / M2 20220127 Cloudy Moderate Mid-Ebs Midele 5.59 0.3444 8.79 8.8 32.76 20 5.94 5 0.228 5E / / M2 20220127 Cloudy Moderate Mid-Ebs Sottom 10.9 0.34375 8.73 8.18 32.77 19.98 6.62 4 0.285 E / M2 20220127 Cloudy Moderate Mid-Ebs Sottom 10.9 0.34375 8.81 8.02 7.283 19.98 6.62 4 0.268 E / / M3 20220127 Cloudy Moderate Mid-Ebs Surface 1 0.3625 8.21 32.73 19.98 6.62 4 0.263 E / //							5.8							4		SE SE	/
M2 20220127 Cloudy Moderate Mid-bb Middle 5.59 0.3444 8.79 8.08 32.61 20 5.52 3 0.275 E / M2 20220127 Cloudy Moderate Mid-bb Bottom 10.9 0.34375 8.81 32.77 19.98 6.62 4 0.285 E / M2 20220127 Cloudy Moderate Mid-bb Sutom 10.9 0.34375 8.81 808 32.67 20.01 6.62 4 0.285 E / M3 20220127 Cloudy Moderate Mid-bb Surface 1 0.3625 7.94 8.2 32.83 19.9 6.51 4 0.266 E / M3 20220127 Cloudy Moderate Mid-bb Surface 1 0.3625 8.03 8.14 32.73 19.94 6.31 6 0.273 E / M3 20220127 Cloudy Moderate Mid-bb Surface 1 0.36181 8.03 8.11	M2	20220127	Cloudy	Moderate	Mid-Ebb	Surface	1	0.34514	8.8	8.17	32.72	19.96	5.66	3	0.274		/
M2 20220127 Cloudy Moderate Mid-Ebb Bottom 10.9 0.34375 8.78 8.18 32.77 19.98 6.62 4 0.288 E / M2 20220127 Cloudy Moderate Mid-Ebb Bottom 1.09 0.34375 8.81 8.08 32.67 2.010 6.59 5 0.286 E / M3 20220127 Cloudy Moderate Mid-Ebb Strafece 1 0.3625 7.54 8.2 32.83 1.9 6.5 4 0.265 E / M3 20220127 Cloudy Moderate Mid-Ebb Strafece 1 0.3625 8.03 8.14 32.7 19.94 6.31 6 0.273 E / M3 20220127 Cloudy Moderate Mid-Ebb Strafece 3 0.3618 8.05 8.21 32.73 19.86 6.41 4 0.297 SE / M3 <t< td=""><td>M2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5</td><td></td><td>SE</td><td>/</td></t<>	M2													5		SE	/
M2 20220127 Cloudy Moderate Mid-Ebb Bottom 10.9 0.34375 8.81 8.08 32.67 20.01 6.59 5 0.286 E / M3 20220127 Cloudy Moderate Mid-Ebb Surface 1 0.3625 7.74 8.2 32.83 19.9 6.5 4 0.266 SC / / / / / / / / / / / / / / / / 0.3625 SC 8.38 18.4 32.7 19.94 6.51 4 0.266 SC / / / / / / / / / / <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>E</td><td>/</td></td<>																E	/
M3 20220127 Cloudy Moderate Mid-Ebb Surface 1 0.3625 8.03 8.14 32.7 19.94 6.31 6 0.727 E / M3 20220127 Cloudy Moderate Mid-Ebb Midele 3.6 0.36181 8.03 8.12 32.86 19.89 6.82 3 0.2625 E / M3 20220127 Cloudy Moderate Mid-Ebb Midele 3.6 0.36181 8.05 8.11 32.73 19.88 6.41 4 0.296 SE / M3 20220127 Cloudy Moderate Mid-Ebb Stotim 6.2 0.36111 8.05 8.11 32.78 19.86 6.41 4 0.296 SE / M3 20220127 Cloudy Moderate Mid-Ebb Stotim 6.2 0.36111 8.05 8.2 3.27 19.98 6.41 4 0.299 SE / M4 20220127 Cloudy	M2	20220127	Cloudy	Moderate	Mid-Ebb	Bottom		0.34375	8.81	8.08	32.67	20.01	6.99	5	0.286	E	/
M3 20220127 Cloudy Moderate Mid-Ebb Middle 3.6 0.36181 8.03 8.12 32.86 19.89 6.682 3 0.265 E / M3 20220127 Cloudy Moderate Mid-Ebb Middle 3.6 0.36181 8.03 8.12 32.86 19.89 6.642 4 0.265 SE / M3 20220127 Cloudy Moderate Mid-Ebb 8.016 8.21 32.78 19.88 6.41 4 0.265 SE / M3 20220127 Cloudy Moderate Mid-Ebb Section 6.2 0.3611 8.05 8.21 32.78 19.86 7.28 4 0.269 SE / M4 20220127 Cloudy Moderate Mid-Ebb Surface 1 0.38403 8.15 7.95 32.82 20.04 6.39 5 0.268 SE / M4 20220127 Cloudy Moderat							1									SE E	/
M3 20220127 Cloudy Moderate Mid-Ebb Bottom 6.2 0.3611 8.05 8.11 32.78 19.86 7.28 4 0.207 SE / M3 20220127 Cloudy Moderate Mid-Ebb Bottom 6.2 0.3611 8.05 8.1 32.78 19.96 7.28 4 0.207 SE / M4 20220127 Cloudy Moderate Mid-Ebb Surface 1 0.38403 8.15 7.95 32.28 20.04 6.39 5 0.298 SE / M4 20220127 Cloudy Moderate Mid-Ebb Surface 1 0.38403 8.12 7.95 32.28 20.04 6.39 5 0.298 SE / M4 20220127 Cloudy Moderate Mid-Ebb Surface 1 0.38403 8.03 7.97 32.26 20.01 6.54 4 0.272 E / M4	M3	20220127	Cloudy	Moderate	Mid-Ebb	Middle		0.36181	8.03	8.12	32.86	19.89	6.82	3	0.265	E	/
M3 20220127 Cloudy Moderate Mid-Ebb Bottom 6.2 0.3611 8.05 8.2 32.7 19.92 7.3 4 0.269 SE / M4 20220127 Cloudy Moderate Mid-Ebb Surface 1 0.38403 8.15 7.95 32.28 20.04 6.39 5 0.298 SE / M4 20220127 Cloudy Moderate Mid-Ebb surface 1 0.38403 8.12 7.95 32.41 20 6.3 4 0.269 SE / M4 20220127 Cloudy Moderate Mid-Ebb surface 1 0.38403 8.81 7.95 32.41 20 6.3 4 0.269 SE / M4 20220127 Cloudy Moderate Mid-Ebb surface 0.38303 8.03 7.97 32.26 20.01 6.54 4 0.272 E /														4			/
M4 20220127 [Cloudy Moderate Mid-Ebb Surface 1 0.38403 8.15 7.95 32.28 20.04 6.39 5 0.298 5E / M4 20220127 [Cloudy Moderate Mid-Ebb Surface 1 0.38403 8.12 7.95 32.41 20 6.3 4 0.268 SE / M4 20220127 [Cloudy Moderate Mid-Ebb Section 4 0.38333 8.03 7.97 32.26 20.01 6.54 4 0.272 E /														4			/
M4 20220127 Cloudy Moderate Mid-Ebb Bottom 4 0.3833 8.03 7.97 32.26 20.01 6.54 4 0.272 E //	M4	20220127	Cloudy	Moderate	Mid-Ebb	Surface	1	0.38403	8.15	7.95	32.28	20.04	6.39	5	0.298	SE	/
							1									SE E	/
	M4															SE	/

				1												1
Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pН	Sal (ppt)	Temp (?)	Turbidty (NTU)	SS	Current Velocity (m/s)	Current Direction	Remark
C1	20220129	Cloudy	Moderate	Mid-Ebb	Surface	1	0.34583	8.87	7.91	34.65	20.35	8.7	5	0.278	E SF	/
C1 C1	20220129 20220129	Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Middle	9.9	0.34583 0.34514	8.92	8.03 7.92	34.67 34.72	20.25	8.3 8.39	19	0.266	E E	/
C1	20220129	Cloudy	Moderate	Mid-Ebb	Middle	9.9	0.34514	8.9	8.02	34.72	20.32	8.5	18	0.271	F	/
C1	20220129	Cloudy	Moderate	Mid-Ebb	Bottom	18.8	0.34444	8.97	7.99	34.63	20.21	8.54	15	0.294	SE	/
C1	20220129	Cloudy	Moderate	Mid-Ebb	Bottom	18.8	0.34444	8.98	7.97	34.81	20.24	8.83	15	0.281	SE	/
C2	20220129	Cloudy	Moderate	Mid-Ebb	Surface	1	0.39583	8.51	8.09	34.85	19.97	7.06	10	0.264	E	/
C2	20220129	Cloudy	Moderate	Mid-Ebb	Surface	1	0.39583	8.55	8.13	34.79	19.96	7.23	10		E	/
C2	20220129	Cloudy	Moderate	Mid-Ebb	Middle	11.55		8.63	8.18	34.78	20.1	7.41	7	0.276	E	/
C2	20220129	Cloudy	Moderate	Mid-Ebb	Middle	11.55	0.39514	8.45	8.1	34.91	19.96	6.98	7	0.272	E	/
C2	20220129 20220129	Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Bottom	22.1	0.39444 0.39444	8.65 8.65	8.11 8.12	34.79 34.9	20.1	6.95 7.32	4	0.286	E	/
M1	20220129	Cloudy	Moderate	Mid-Ebb	Surface	1	0.37014	9.47	8.15	34.42	20.01	7.5	4	0.291	SE	/
M1	20220129	Cloudy	Moderate	Mid-Ebb	Surface	1		9.4	8.2	34.48	20.33	7.5	4	0.267	SE	/
M1	20220129	Cloudy	Moderate	Mid-Ebb	Middle	3.3		9.32	8.13	34.58	20.28	7.6	6	0.288	E	/
M1	20220129	Cloudy	Moderate	Mid-Ebb	Middle	3.3	0.36944	9.54	8.14	34.53	20.19	7.82	5	0.294	SE	/
M1	20220129	Cloudy	Moderate	Mid-Ebb	Bottom	5.6		9.36	8.23	34.57	20.17	7.91	5	0.266	SE	/
M1	20220129	Cloudy	Moderate	Mid-Ebb	Bottom	5.6		9.47	8.24	34.51	20.23	7.65	7	0.264	E	/
M2	20220129	Cloudy	Moderate	Mid-Ebb	Surface	1	0.00000	9.16	8.24	34.02	20.32	6.76	6	0.27	E	/
M2	20220129	Cloudy	Moderate	Mid-Ebb	Surface		0.35903	9.33	8.25	34.01	20.35	6.93	5	0.298	E r	/
M2 M2	20220129	Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Middle	6.65	0.35833	9.22	8.16 8.15	34.14	20.4	7.2	5	0.273	E	/
M2	20220129	Cloudy	Moderate	Mid-Ebb	Bottom	6.65	0.35833	9.16	8.15	34.17	20.36	6.85	3	0.279	SF	/
M2	20220129	Cloudy	Moderate	Mid-Ebb	Bottom	12.3	0.35764	9.33	8.18	34.18	20.32	7.19	7	0.282	SE	1
M3	20220129	Cloudy	Moderate	Mid-Ebb	Surface	12.5	0.37917	8.48	8.12	33.85	19.98	7.1	8	0.273	E	1/
M3	20220129	Cloudy	Moderate	Mid-Ebb	Surface	1	0.37917	8.54	8.05	33.84	19.98	7.04	8	0.279	SE	/
M3	20220129	Cloudy	Moderate	Mid-Ebb	Middle	3.6	0.37847	8.42	8.09	33.71	20.06	6.97	5	0.264	SE	/
M3	20220129	Cloudy	Moderate	Mid-Ebb	Middle	3.6	0.37847	8.32	8.13	33.79	20.11	6.89	4	0.267	SE	/
M3	20220129	Cloudy	Moderate	Mid-Ebb	Bottom	6.2		8.37	8.04	33.68	20.07	7.07	6	0.291	E	/
M3	20220129	Cloudy	Moderate	Mid-Ebb	Bottom	6.2	0.37778	8.38	8.13	33.77	19.99	6.74	4	0.28	E	/
M4 M4		Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	0.40556	8.67 8.73	7.95	34.79 34.67	20.08	6.63 6.52	5	0.276	SE	/
M4	20220129	Cloudy	Moderate	Mid-Ebb	Bottom	3.6		8.63	7.93	34.67	20.23	6.9	7	0.296	E	/
M4	20220129	Cloudy	Moderate	Mid-Ebb	Bottom	3.6		8.78	8.06	34.79	20.17	6.77	5	0.288	SE	1
C1	20220131	Cloudy	Moderate	Mid-Ebb	Surface	1	0.42222	8.42	8.27	32.02	19.9	8.63	4	0.27	SE	/
C1	20220131	Cloudy	Moderate	Mid-Ebb	Surface	1	0.42222	8.45	8.26	32.03	19.87	8.44	2.5	0.267	E	/
C1	20220131	Cloudy	Moderate	Mid-Ebb	Middle	10.05	0.42153	8.43	8.13	32.04	19.86	8.66	4	0.291	SE	/
C1	20220131	Cloudy	Moderate	Mid-Ebb	Middle	10.05	0.42153	8.41	8.19	32.01	19.83	8.76	3	0.282	SE	/
C1	20220131	Cloudy	Moderate	Mid-Ebb	Bottom	19.1	0.42083	8.44	8.14	31.88	19.85	9.44	27	0.281	SE	/
C1 C2	20220131	Cloudy	Moderate	Mid-Ebb	Bottom	19.1	0.42083	8.55	8.2	31.95 32.3	19.84 19.85	9.35	29 18	0.285	SE	/
C2	20220131 20220131	Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	0.47222 0.47222	8.8 8.97	8.17 8.22	32.3	19.85	7.22	18	0.28	SF	/
C2	20220131	Cloudy	Moderate	Mid-Ebb	Middle	11.2		8.8	8.21	32.41	19.85	7.38	9	0.273	SE	/
C2	20220131	Cloudy	Moderate	Mid-Ebb	Middle	11.2		8.92	8.22	32.31	19.92	7.46	9	0.27	SE	/
C2	20220131	Cloudy	Moderate	Mid-Ebb	Bottom	21.4	0.47083	8.82	8.2	32.34	19.79	6.96	19	0.297	SE	/
C2	20220131	Cloudy	Moderate	Mid-Ebb	Bottom	21.4	0.47083	8.83	8.15	32.45	19.84	6.97	17	0.295	SE	/
M1	20220131	Cloudy	Moderate	Mid-Ebb	Surface	1	0.44444	8.27	8.13	31.48	20.01	8.11	5	0.299	E	/
M1	20220131	Cloudy	Moderate	Mid-Ebb	Surface	1	0.44444	8.23	8.13	31.52	19.87	8.14	5	0.273	SE	/
M1 M1	20220131	Cloudy	Moderate	Mid-Ebb Mid-Ebb	Middle Middle	3.7	0.44375	8.17	8.09	31.39 31.55	19.84	8.12	2.5	0.27	SE	/
M1 M1	20220131 20220131	Cloudy Cloudy	Moderate Moderate	Mid-Ebb	Bottom	3.7		8.24 8.29	8.04	31.55	19.98	7.73	2.5 2.5	0.27	F	/
M1	20220131	Cloudy	Moderate	Mid-Ebb	Bottom	6.4		8.29	8.07	31.40	19.91	8.12	2.5	0.269	SE	1
M2	20220131	Cloudy	Moderate	Mid-Ebb	Surface	0.4	0.43264	8.12	8.03	31.94	19.89	7.31	2.5	0.282	E	1
M2	20220131	Cloudy	Moderate	Mid-Ebb	Surface	1	0.43264	8.21	8.08	32.04	19.9	7	2.5	0.293	SE	/
M2	20220131	Cloudy	Moderate	Mid-Ebb	Middle	5.9	0.43194	8.14	8.02	31.94	19.88	7.44	4	0.294	SE	/
M2	20220131	Cloudy	Moderate	Mid-Ebb	Middle	5.9	0.43194	8.06	7.98	31.92	19.76	7.5	3	0.295	SE	/
M2	20220131	Cloudy	Moderate	Mid-Ebb	Bottom	10.8	0.43125	8.22	8.03	31.94	19.78	7.28	3	0.276	SE	/
M2	20220131	Cloudy	Moderate	Mid-Ebb	Bottom	10.8	0.43125	8.05	8.07	32.04	19.92	7.17	2.5	0.276	E	/
M3 M3	20220131 20220131	Cloudy	Moderate Moderate	Mid-Ebb	Surface Surface	1	0.45694	9 8.98	8.05 8.17	31.85 31.83	20.01	7.02	2.5	0.28	SE SF	/
M3 M3	20220131 20220131	Cloudy Cloudy	Moderate	Mid-Ebb Mid-Ebb	Surface Middle	3.95	0.45694	8.98 9.03	8.1/	31.83	19.99	6.93	2.5	0.28	F	/
M3	20220131	Cloudy	Moderate	Mid-Ebb	Middle	3.95		9.03 Q	8.04	31.71	20.05	7.06	4	0.266	SE	1
M3	20220131	Cloudy	Moderate	Mid-Ebb	Bottom		0.45556	9.12	8.14	31.8	19.94	7.15	3	0.269	-	/
M3		Cloudy	Moderate	Mid-Ebb	Bottom		0.45556	8.99	8.09	31.78	20.03	6.92	5	0.271	E	/
M4	20220131	Cloudy	Moderate	Mid-Ebb	Surface	1	0.49097	8.24	8.19	32.09	19.78	7.43	5	0.285	E	/
M4	20220131	Cloudy	Moderate	Mid-Ebb	Surface	1	0.49097	8.32	8.26	32.14	19.82	7.43	6	0.294	SE	/
M4	20220131	Cloudy	Moderate	Mid-Ebb	Bottom	3.9	0.48958	8.39	8.21	32.17	19.9	7.5	4	0.276	SE	/
M4	20220131	Cloudy	Moderate	Mid-Ebb	Bottom	3.9	0.48958	8.21	8.16	32.22	19.73	7.25	2.5	0.294	SE	/

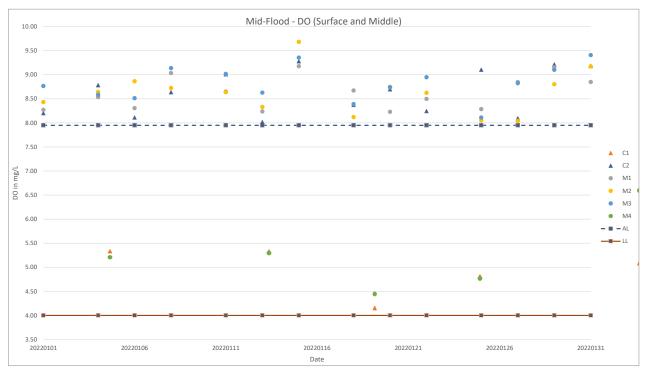
Location C1	Date 20220101	Weather Cloudy	Sea Condition Moderate	Tidal Mid-Flood	Water Level Surface	Depth (m) 1	Time 15:58	DO (mg/L) 8.74	рН 8.4	Sal (ppt) 4 33.57	Temp (?) 20.30	Turbidty (NTU) 2.88	SS 4	Current Velocity (m/s) 0.286	Current Direction SE	Remark /
C1	20220101	Cloudy	Moderate	Mid-Flood	Surface	1	15:58	8.83	8.4	1 33.61	20.22	2.99	2.5	0.294		/
C1 C1	20220101 20220101		Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	10	15:57 15:57	8.52 8.42	8.3				7		SE F	/
C1	20220101	Cloudy	Moderate	Mid-Flood	Bottom	19	15:56	8.37	8.3	1 33.28	20.41	3.07	3	0.301	SE	/
C1 C2	20220101 20220101		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	19	15:56 14:41	8.21 8.23	8.3				5		SE	/
C2	20220101		Moderate	Mid-Flood	Surface	1	14:41	8.23	8.4			4.07	4 6		E	/
C2	20220101		Moderate	Mid-Flood	Middle	12.75	14:40	8.15	8.2				4		SE	/
C2 C2	20220101 20220101		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	12.75 24.5	14:40 14:39	8.16	8.4				5		E	/
C2	20220101		Moderate	Mid-Flood	Bottom	24.5	14:39	8.15	8.3				5		SE	/
M1 M1	20220101 20220101		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	15:20 15:20	8.20 8.51	8.4				4		SE	/
M1	20220101	Cloudy	Moderate	Mid-Flood	Middle	3.6	15:19	8.15	8.4	9 33.17	20.43	2.85	4	0.278	SE	/
M1 M1	20220101 20220101		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	3.6	15:19 15:18	8.22 8.16	8.4				4			/
M1	20220101	Cloudy	Moderate	Mid-Flood	Bottom	6.2	15:18	8.10	8.3	8 33.11	20.41	3.35	5	0.303	SE	/
M2 M2	20220101 20220101		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	15:35 15:35	8.13 8.21	8.4				3		SE F	/
M2	20220101	Cloudy	Moderate	Mid-Flood	Middle	6.05	15:34	8.66	8.4	4 33.21	20.52	3.03	5	0.280	E	/
M2 M2	20220101 20220101		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	6.05 11.1	15:34 15:33	8.73 8.67	8.4				6		SE	/
M2	20220101	Cloudy	Moderate	Mid-Flood	Bottom	11.1	15:33	8.71	8.4	1 33.28	20.53	3.16	6	0.307		/
M3 M3	20220101 20220101		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	15:00 15:00	8.87 8.93	8.5				6		E	/
M3	20220101		Moderate	Mid-Flood	Middle	3.65	14:59	8.29	8.5				3		SE	/
M3	20220101		Moderate	Mid-Flood	Middle	3.65	14:59	8.97	8.5				5		E	/
M3 M3	20220101 20220101		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Bottom	6.3 6.3	14:58 14:58	8.20 8.28	8.2 8.3				4		SE	/
M4	20220101	Cloudy	Moderate	Mid-Flood	Surface	1	16:19	8.95	8.4	1 33.01	20.25	2.62	4	0.286		/
M4 M4	20220101 20220101		Moderate Moderate	Mid-Flood Mid-Flood	Surface Bottom	4.6	16:19 16:18	8.22	8.4				5		SE	/
M4	20220101	Cloudy	Moderate	Mid-Flood	Bottom	4.6	16:18	9.05	8.3	4 33.02	20.23	2.82	4	0.289	SE	/
C1 C1	20220104 20220104		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	9:22 9:22	8.32 8.39	8.2				4		E	/
C1	20220104	Sunny	Moderate	Mid-Flood	Middle	10.85	9:21	8.89	8.1	7 32.44	21.68	10.40	4	0.276	E	/
C1 C1	20220104 20220104		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	10.85	9:21 9:20	8.90 8.93	8.2				3			/
C1	20220104		Moderate	Mid-Flood	Bottom	20.7	9:20	8.93	8.1	7 32.23	21.59		3			1
C2 C2	20220104 20220104		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	8:04 8:04	8.73 8.74	8.1				10 10		SE	/
C2	20220104		Moderate	Mid-Flood	Middle	11.4	8:04	9.01	8.2				9		E	/
C2 C2	20220104		Moderate	Mid-Flood	Middle	11.4	8:03	8.65	8.1				9		SE	/
C2	20220104 20220104		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Bottom	21.8	8:02 8:02	8.13	8.1				4		SE	/
M1	20220104		Moderate	Mid-Flood	Surface	1	8:42	8.61	8.1				7			/
M1 M1	20220104 20220104		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	1 3.55	8:42 8:41	8.42	8.3				7		SE	/
M1	20220104	Sunny	Moderate	Mid-Flood	Middle	3.55	8:41	8.63	8.2	3 32.34	21.49	6.83	4	0.237	SE	/
M1 M1	20220104 20220104		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Bottom	6.1 6.1	8:40 8:40	8.51 8.54	8.2				5		E SF	/
M2	20220104	Sunny	Moderate	Mid-Flood	Surface	1	9:02	8.10	8.3	8 31.85	22.05	6.33	6	0.253	SE	/
M2 M2	20220104 20220104		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	6.15	9:02 9:01	9.03	8.3				3			/
M2	20220104		Moderate	Mid-Flood	Middle	6.15	9:01	8.72	8.2				9		SE	1
M2 M2	20220104 20220104		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Bottom	11.3 11.3	9:00 9:00	8.77	8.2				7			/
M3	20220104		Moderate	Mid-Flood	Surface	11.5	8:21	8.75	8.1				4		SE	/
M3	20220104		Moderate	Mid-Flood	Surface	1	8:21	8.77	8.1				7		SE	/
M3 M3	20220104 20220104		Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	3.2		8.10 8.72	8.2				4		SE	/
M3	20220104		Moderate	Mid-Flood	Bottom	5.4		8.50	8.3				5		E	/
M3 M4	20220104 20220104		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	5.4		8.46 8.96	8.3				4			/
M4	20220104	Sunny	Moderate	Mid-Flood	Surface	1	9:42	8.27	8.1	7 31.29	21.36	2.54	5	0.267	SE	/
M4 M4	20220104 20220104		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Bottom	4.3		8.92 8.84	8.3				4		SE	/
C1	20220106	Sunny	Moderate	Mid-Flood	Surface	1	9:52	8.19	8.2	0 33.44	21.57	8.48	4	0.290		/
C1 C1	20220106		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	1 10.95	9:52 9:51	8.12	8.2				5	0.270	E SF	/
C1	20220106	Sunny	Moderate	Mid-Flood	Middle	10.95	9:51	8.29	8.2	6 32.77	21.64	8.32	7	0.281	SE	/
C1 C1	20220106		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Bottom	20.9	9:50 9:50	8.12 8.18	8.3 8.2				5			/
C2	20220106		Moderate	Mid-Flood Mid-Flood	Surface	20.9	8:59	8.18	8.4	2 33.30	21.47	10.60				/
C2	20220106		Moderate	Mid-Flood		12.45	8:59	8.01	8.4							/
C2 C2	20220106 20220106		Moderate Moderate	Mid-Flood Mid-Flood		12.45	8:58 8:58	8.13	8.4 8.4				4			/
C2	20220106	Sunny	Moderate	Mid-Flood	Bottom	23.9	8:57	8.08	8.2	8 32.83	21.72	11.20	4	0.311	E	/
C2 M1	20220106 20220106		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	23.9	8:57 9:26	8.09	8.2				5			/
M1	20220106	Sunny	Moderate	Mid-Flood	Surface	1	9:26	8.35	8.5	0 34.23	21.59	8.25	6	0.271	SE	/
M1 M1	20220106		Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	3.35		8.26 8.33	8.4				5			/
M1	20220106	Sunny	Moderate	Mid-Flood	Bottom	5.7	9:24	8.27	8.3	5 32.76	21.56	8.74	5	0.283	SE	/
M1 M2	20220106		Moderate Moderate	Mid-Flood Mid-Flood		5.7		8.37 8.89	8.3				4		SE F	/
M2	20220106	Sunny	Moderate	Mid-Flood	Surface	1	9:41	8.90	8.4	9 33.26	21.70	7.90	6	0.297		/
M2	20220106		Moderate	Mid-Flood	Middle	6.45		8.87	8.3				5			/
M2 M2	20220106 20220106		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	6.45 11.9		8.80 8.86	8.3 8.4				3			/
M2	20220106	Sunny	Moderate	Mid-Flood	Bottom	11.9	9:39	8.84	8.3	9 33.62	21.74	7.83	4	0.279	E	/
M3 M3	20220106		Moderate Moderate	Mid-Flood Mid-Flood		1	9:15 9:15	8.56 8.52	8.3				4			/
M3	20220106	Sunny	Moderate	Mid-Flood	Middle	3.4	9:14	8.51	8.2	8 33.45	21.76	8.52	7	0.296	SE	/
M3 M3	20220106		Moderate Moderate	Mid-Flood Mid-Flood		3.4		8.46 8.39	8.4				7			/
M3	20220106	Sunny	Moderate	Mid-Flood	Bottom	5.8	9:13	8.13	8.2	7 32.71	21.73	8.14	6	0.302	SE	/
M4 M4	20220106		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	10:04 10:04	8.32 8.33	8.4 8.4				4		SE F	/
M4	20220106		Moderate	Mid-Flood Mid-Flood		3.8		8.33	8.4	5 32.90	21.62	9.92	3	0.293	E	/
M4	20220106	Sunny	Moderate	Mid-Flood		3.8	10:03	8.24	8.5	1 33.00	21.65	9.86	6	0.306	E	/

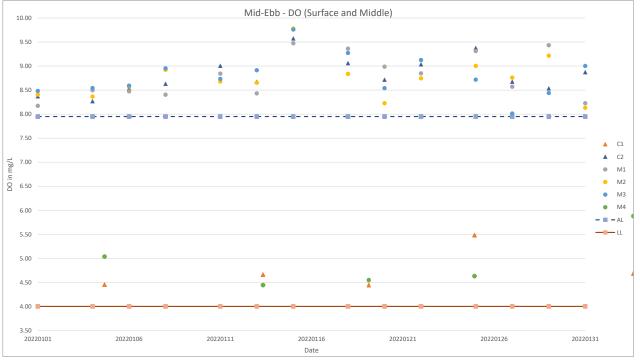
															Γ
Location C1	Date 20220108	Weather Sunny	Sea Condition Moderate	Tidal Mid-Flood	Water Level Surface	Depth (m) 1	Time 11:01	DO (mg/L) pH 8.63 8.22	Sal (ppt) 34.07	Temp (?) 21.68	Turbidty (NTU) 10.10	SS	Current Velocity (m/s) 0.287 E	Current Direction	Remark /
C1	20220108	Sunny	Moderate	Mid-Flood	Surface	1	11:01	8.59 8.22	34.12	21.65	10.40	2.5	i 0.281 S	SE	/
C1 C1	20220108 20220108		Moderate Moderate	Mid-Flood Mid-Flood	Middle	10	11:00 11:00	8.28 8.24 8.30 8.27	33.97 34.05			4	0.297 S	E	/
C1 C1	20220108 20220108		Moderate Moderate	Mid-Flood Mid-Flood	Bottom	19 19	10:59 10:59	8.28 8.24 8.33 8.23	34.01 34.02				0.267 5	E.	/
C2	20220108		Moderate	Mid-Flood	Bottom Surface	19	9:47	8.86 8.35	34.02				0.294 9	ie ie	/
C2 C2	20220108 20220108		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	1 12.35	9:47 9:46	8.87 8.35 8.44 8.28	33.85 34.40				0.268 S	E	/
C2	20220108	Sunny	Moderate	Mid-Flood	Middle	12.35	9:46	8.38 8.33	34.30	21.86	11.30	4	0.273 9	δE	/
C2 C2	20220108 20220108		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Bottom	23.7	9:45 9:45	8.49 8.30 8.45 8.27	34.24 34.29				8 0.301 S 8 0.278 S	SE SE	/
M1	20220108	Sunny	Moderate	Mid-Flood	Surface	1	10:22	8.96 8.25	35.58	22.19	7.68	2.5	5 0.302 S	SE.	/
M1 M1	20220108 20220108		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	3.25	10:22	9.04 8.28 9.08 8.31	35.47 34.57			4		E	/
M1	20220108	Sunny	Moderate	Mid-Flood	Middle	3.25	10:21	9.06 8.31	34.55	22.03	7.63		i 0.296 S	6E	/
M1 M1	20220108 20220108		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Bottom	5.5	10:20 10:20	9.07 8.33 9.03 8.28	34.51 34.53				5 0.300 E 8 0.263 S	E	/
M2 M2	20220108 20220108		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	10:41 10:41	9.29 8.29 9.26 8.20	35.44 35.34					E.	/
M2 M2	20220108		Moderate	Mid-Flood	Middle	7	10:41	8.20 8.34	33.34					6E	/
M2 M2	20220108 20220108		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	7	10:40 10:39	8.15 8.35 8.12 8.31	34.63 34.64			6	0.304 S 0.267 S	E	/
M2	20220108	Sunny	Moderate	Mid-Flood	Bottom	13	10:39	8.21 8.34	34.75	21.85	8.26	3	0.283 9	6E	/
M3 M3	20220108 20220108		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	10:04 10:04	9.37 8.27 9.39 8.34	33.78 33.95					SE SE	/
M3	20220108	Sunny	Moderate	Mid-Flood	Middle	3.55	10:03	8.90 8.26	34.21	21.91	7.71	4	0.287 9	ie ie	/
M3 M3	20220108 20220108		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	3.55	10:03 10:02	8.89 8.35 8.89 8.34	34.24 34.19			6		ε ε	/
M3	20220108	Sunny	Moderate	Mid-Flood	Bottom	6.1	10:02	8.93 8.34	34.17	21.86	8.33	9	0.306 9	ε.	/
M4 M4	20220108 20220108		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	11:21 11:21	8.49 8.25 8.38 8.27	34.34 34.36				0.282 E	E E	/
M4	20220108	Sunny	Moderate	Mid-Flood	Bottom	4.5	11:20	8.38 8.20	35.04	22.05	8.14	7	0.281 E		/
M4 C1	20220108 20220111		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	4.5	11:20 18:34	8.43 8.28 8.48 8.31	35.08 34.69				0.010	E	/
C1	20220111	Sunny	Moderate	Mid-Flood	Surface	1	18:34	8.69 8.37	34.68	20.38	3.15	3	0.280 5	6E	/
C1 C1	20220111 20220111		Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	11.75 11.75	18:33 18:33	8.46 8.28 8.54 8.28	34.77 34.75					6E	/
C1	20220111	Sunny	Moderate	Mid-Flood	Bottom	22.5	18:32	8.52 8.30	34.84	20.46	2.87	5	i 0.273 S	6E	/
C1 C2	20220111 20220111		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	22.5	18:32 17:42	8.64 8.33 8.90 8.36	34.86 34.88					6E 6E	/
C2	20220111	Sunny	Moderate	Mid-Flood	Surface	1	17:42	9.08 8.33	34.82	20.20	2.88	e	i 0.310 S	6E	/
C2 C2	20220111 20220111		Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	10.65	17:41 17:41	9.11 8.34 8.95 8.28	34.75 34.81						/
C2	20220111		Moderate	Mid-Flood	Bottom	20.3	17:40	8.97 8.35	34.87					δE.	/
C2 M1	20220111 20220111		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	20.3	17:40 18:11	8.90 8.33 8.67 8.37	34.69 34.36			4		ie ie	/
M1	20220111		Moderate	Mid-Flood	Surface	1	18:11	8.58 8.33	34.23						/
M1 M1	20220111 20220111		Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	3.65	18:10 18:10	8.77 8.35 8.58 8.31	34.28 34.38			5			/
M1	20220111	Sunny	Moderate	Mid-Flood	Bottom	6.3	18:09	8.61 8.34	34.27					SE	/
M1 M2	20220111 20220111		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	6.3	18:09 18:22	8.70 8.36 8.62 8.41	34.39 34.17				3 0.296 S 5 0.298 S	ie ie	/
M2	20220111		Moderate	Mid-Flood	Surface	1	18:22	8.51 8.34	34.18			2.5		Ε	/
M2 M2	20220111 20220111		Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	5.85	18:21 18:21	8.76 8.32 8.66 8.35	34.09 34.17			-			/
M2 M2	20220111 20220111		Moderate Moderate	Mid-Flood Mid-Flood	Bottom	10.7	18:20 18:20	8.58 8.34 8.68 8.36	33.99 34.07			2.5	0.283 S	E	/
M3	20220111		Moderate	Mid-Flood	Bottom Surface	10.7	17:58	9.11 8.34	34.07					SE	/
M3 M3	20220111 20220111		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	1 3.25	17:58 17:57	9.13 8.38 8.94 8.34	34.22 34.27			2.5		E	/
M3	20220111		Moderate	Mid-Flood	Middle	3.25	17:57	8.89 8.32	34.27			2.5			/
M3 M3	20220111 20220111		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Bottom	5.5 5.5	17:56 17:56	9.01 8.41 9.12 8.32	34.21 34.29			2.5			/
M4	20220111		Moderate	Mid-Flood	Surface	1	18:47	9.04 8.32	34.84						/
M4 M4	20220111 20220111		Moderate Moderate	Mid-Flood Mid-Flood	Surface Bottom	4.2	18:47 18:46	9.09 8.34 8.99 8.33	34.94 34.99				0.296 E		/
M4	20220111	Sunny	Moderate	Mid-Flood	Bottom	4.2	18:46	9.19 8.34	34.85	20.21	2.41	2.5	0.276 E		/
C1 C1	20220113 20220113		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	13:34 13:34	8.26 8.33 8.31 8.29	34.92 35.08	-				SE SE	/
C1	20220113		Moderate	Mid-Flood	Middle	11.75	13:33	8.31 8.35	35.02	21.34	7.77	6			/
C1 C1	20220113 20220113	Cloudy Cloudy	Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	11.75 22.5	13:33 13:32	8.22 8.29 8.27 8.30	34.98 34.99	-	7.71		0.291 S 0.298 E	ь́Е	/
C1	20220113	Cloudy	Moderate	Mid-Flood	Bottom	22.5	13:32	8.21 8.35	34.97	21.37	7.45	4	0.296 9	SE .	/
C2 C2	20220113 20220113		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	12:58 12:58							E	/
C2	20220113	Cloudy	Moderate	Mid-Flood	Middle	11.55	12:57	8.03 8.28	35.04	21.05	9.18	4	0.296 9		/
C2 C2	20220113 20220113		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	11.55 22.1	12:57 12:56	8.03 8.28 8.04 8.25						SE SE	/
C2	20220113	Cloudy	Moderate	Mid-Flood	Bottom	22.1	12:56	7.94 8.22	35.06	21.19	8.88	5	6 0.298 E		/
M1 M1	20220113 20220113		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	13:27 13:27	8.28 8.29 8.19 8.31	34.75 34.91						/
M1	20220113	Cloudy	Moderate	Mid-Flood	Middle	3.3	13:26	8.22 8.25	34.81	21.40	7.09	4	0.296 9		/
M1 M1	20220113 20220113		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	3.3 5.6	13:26 13:25	8.26 8.33 8.30 8.28							/
M1	20220113	Cloudy	Moderate	Mid-Flood	Bottom	5.6	13:25	8.27 8.27	34.79	21.37	6.36	4	0.280 5		/
M2 M2	20220113 20220113		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	13:42 13:42	8.33 8.40 8.34 8.43						DE.	/
M2	20220113	Cloudy	Moderate	Mid-Flood	Middle	6.6	13:41	8.32 8.37	34.42	21.37	6.35	4	0.294 9	Ε -	/
M2 M2	20220113 20220113		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	6.6	13:41 13:40	8.33 8.42 8.41 8.39						: SE	/
M2	20220113	Cloudy	Moderate	Mid-Flood	Bottom	12.2	13:40	8.38 8.43	34.58	21.31	5.99	4	0.269 5		/
M3 M3	20220113 20220113		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	13:13 13:13	8.64 8.19 8.60 8.24	35.43 35.51					e e e e e e e e e e e e e e e e e e e	/
M3	20220113	Cloudy	Moderate	Mid-Flood	Middle	3.45	13:12	8.64 8.25	35.42	21.35	8.64	3	0.301 E		/
M3 M3	20220113 20220113		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	3.45 5.9	13:12 13:11	8.63 8.21 8.67 8.18	35.44 35.55						/
M3	20220113	Cloudy	Moderate	Mid-Flood	Bottom	5.9	13:11	8.57 8.27	35.53	21.19	7.70	3	0.301 9	SE .	/
M4 M4	20220113 20220113		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	13:51 13:51	8.93 8.37 8.86 8.37	34.20 34.30					E E	/
M4	20220113	Cloudy	Moderate	Mid-Flood	Bottom	4.3	13:50	8.93 8.35	34.34	21.33	6.09	3	0.308 E		/
M4	20220113	Cloudy	Moderate	Mid-Flood	Bottom	4.3	13:50	8.85 8.34	34.32	21.38	6.49	3	0.267 5	ε	/

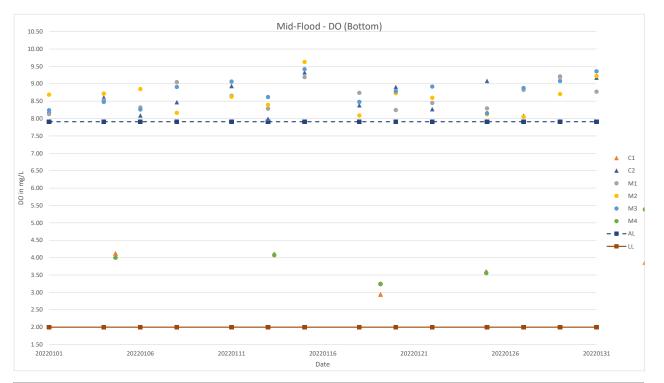
Location C1																
	Date 20220115	Weather	Sea Condition Moderate	Tidal Mid-Flood	Water Level Surface	Depth (m)	Time 15:16	DO (mg/L) 8.74	рН 8.2	Sal (ppt) 5 34.47	Temp (?) 20.64	Turbidty (NTU) 7.94	SS 2.5	Current Velocity (m/s) 0.289	Current Direction	Remark /
C1	20220115	Cloudy	Moderate	Mid-Flood	Surface	1	15:16	9.00	8.2	34.48	20.51	8.20	2.5	0.288		/
C1	20220115		Moderate	Mid-Flood	Middle	10.7	15:15	8.90	8.3		20.59	7.84	2.5	0.287	SE	/
C1 C1	20220115 20220115		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	10.7 20.4	15:15	8.89 8.87	8.3		20.63 20.60	7.87	2.5	0.274	SE	/
C1	20220115	Cloudy	Moderate	Mid-Flood	Bottom	20.4	15:14	8.96	8.3	2 34.56	20.53	8.29	2.5	0.286	SE	/
C2 C2	20220115		Moderate	Mid-Flood	Surface	1	14:10	9.27	8.3			9.63	11	0.304	SE	/
C2	20220115 20220115		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	11.15	14:10	9.25	8.3		20.40 20.33	9.89	11 2.5	0.302	E	/
C2	20220115	Cloudy	Moderate	Mid-Flood	Middle	11.15	14:09	9.21	8.3	3 34.48	20.34	8.97	3	0.287	E	/
C2 C2	20220115 20220115		Moderate Moderate	Mid-Flood Mid-Flood	Bottom	21.3 21.3		9.25 9.40	8.3				8		SE	/
M1	20220113		Moderate	Mid-Flood	Surface	21.5	14:08	9.40	8.3			8.02	2.5	0.269	SE	/
M1	20220115		Moderate	Mid-Flood	Surface	1	14:40	9.06	8.3		20.63	8.26	3	0.297	E	/
M1 M1	20220115 20220115		Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	3.4		9.15 9.20	8.3		20.72	8.26	2.5	0.308	E	/
M1 M1	20220113		Moderate	Mid-Flood	Bottom	5.8		9.20	8.4		20.39		2.5		E	/
M1	20220115		Moderate	Mid-Flood	Bottom	5.8		9.22	8.3				7		SE	/
M2 M2	20220115 20220115		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	14:55	9.75 9.67	8.2				2.5	0.297	SE	/
M2	20220115		Moderate	Mid-Flood	Middle	6.95		9.71	8.2		20.44	6.71	2.5	0.289	E	/
M2	20220115		Moderate	Mid-Flood	Middle	6.95		9.60	8.30			6.68	3		E	/
M2 M2	20220115 20220115		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Bottom	12.9 12.9		9.62 9.64	8.2			6.46 6.74	8			/
M3	20220115		Moderate	Mid-Flood	Surface	12.5	14:33	9.38	8.3				2.5	0.275		/
M3	20220115		Moderate	Mid-Flood	Surface	1	14:23	9.35	8.3				4		E	/
M3 M3	20220115 20220115		Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	3.35	14:22	9.27 9.42	8.4		20.56 20.57	7.21	2.5	0.279	E	-/
M3	20220113		Moderate	Mid-Flood	Bottom	5.7		9.45	8.3		20.57	7.63	2.5	0.280	E	/
M3	20220115		Moderate	Mid-Flood	Bottom	5.7		9.39	8.3		20.62	7.63	2.5	0.311	E	/
M4 M4	20220115 20220115		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	15:02	8.71 8.57	8.3			7.96	2.5	0.273		/
M4	20220113		Moderate	Mid-Flood	Bottom	4.7		8.55	8.3	4 35.37	20.48		2.5	0.285	E	/
M4	20220115	Cloudy	Moderate	Mid-Flood	Bottom	4.7	15:01	8.81	8.30	35.37	20.35	8.17	4	0.310	SE	/
C1 C1	20220118 20220118		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	9:01	8.06 7.97	8.2		20.26 20.45	9.50 10.60	3		SE F	/
C1	20220118		Moderate	Mid-Flood Mid-Flood	Middle	9.95		7.97	8.2		20.45	8.99	4		SE	/
C1	20220118	Cloudy	Moderate	Mid-Flood	Middle	9.95	9:00	8.01	8.2	3 33.63	20.30	8.45	6	0.273	E	/
C1 C1	20220118 20220118		Moderate Moderate	Mid-Flood Mid-Flood	Bottom	18.9 18.9		7.99 7.98	8.2				3	0.309	E SF	/
C2	20220118		Moderate	Mid-Flood	Surface	10.5	8:04	8.41	8.3				14		E	/
C2	20220118	Cloudy	Moderate	Mid-Flood	Surface	1	8:04	8.27	8.2	1 33.08	20.22	9.76	14	0.301	SE	/
C2	20220118		Moderate	Mid-Flood	Middle	12.15		8.43	8.2		20.35	10.60	3	0.287	SE	/
C2 C2	20220118 20220118		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	12.15		8.38 8.49	8.2		20.32 20.30		4		E	/
C2	20220118		Moderate	Mid-Flood	Bottom	23.3		8.27	8.24				5		SE	/
M1	20220118		Moderate	Mid-Flood	Surface	1		8.59	8.2				3			/
M1 M1	20220118 20220118		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	1 3.25	8:31	8.63 8.81	8.2			8.83	2.5	0.299 0.309	SE F	/
M1	20220118		Moderate	Mid-Flood	Middle	3.25		8.66	8.2			8.61	4		SE	/
M1	20220118		Moderate	Mid-Flood	Bottom	5.5		8.82	8.2			8.80	4		E	/
M1 M2	20220118 20220118		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	5.5		8.66 8.13	8.2		20.33 20.28	8.65	3 2.5	0.302	SE	/
M2	20220118		Moderate	Mid-Flood	Surface	1		8.15	8.1			8.35	3			/
M2	20220118		Moderate	Mid-Flood	Middle	6.8		8.16	8.1				4		E	/
M2 M2	20220118 20220118		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	6.8 12.6		8.04 8.08	8.1		20.18 20.26	8.57	4		SE	/
M2	20220118		Moderate	Mid-Flood	Bottom	12.6		8.10	8.10				5	0.280	E	/
M3	20220118		Moderate	Mid-Flood	Surface	1		8.31	8.1		20.24	8.24	5	0.292	E	/
M3 M3	20220118 20220118		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	1 3.35		8.44 8.50	8.10			8.14	4		E	/
M3	20220118		Moderate	Mid-Flood	Middle	3.35		8.31	8.0				7		E	/
M3	20220118		Moderate	Mid-Flood	Bottom	5.7		8.45	8.0			8.26	4		E	/
M3 M4	20220118 20220118		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	5.7		8.51 8.38	8.0				5	0.272 0.293	E	/
M4	20220118		Moderate	Mid-Flood	Surface	1		8.21	8.2			8.10	6		SE	/
M4	20220118	Cloudy	Moderate	Mid-Flood	Bottom	3.7	9:17	8.35	8.3	2 34.10	20.28	7.87	3	0.306	E	/
M4 C1	20220118 20220120		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	3.7		8.30	8.3			7.85	4			/
C1	20220120		Moderate	Mid-Flood	Surface	1	0.39097	8	8.1				5	0.28		/
C1	20220120	Sunny	Moderate	Mid-Flood		11.2	0.39028	8.19	8.14	4 34.69	20.14	7.89		0.267		/
C1 C1	20220120 20220120		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	11.2	0.39028	8.17 8.03	8.1		20.16 20.11	8.19 8.92	13	0.308	SE F	/
C1	20220120		Moderate	Mid-Flood Mid-Flood	Bottom	21.4		8.03	8.1		20.09	9.3			E	/
C2	20220120	Sunny	Moderate	Mid-Flood	Surface	1	0.33472	8.73	8.1	5 34.46	20.16	9.41	5	0.309	E	/
C2 C2	20220120 20220120		Moderate Moderate	Mid-Flood Mid-Flood		1 12.25	0.33472	8.68 8.74	8.1							/
C2	20220120 20220120		Moderate	Mid-Flood Mid-Flood		12.25		8.74	8.1							/
C2	20220120	Sunny	Moderate	Mid-Flood	Bottom	23.5	0.33333	8.98	8.1	5 34.55	20.14	8.55	19	0.3	E	/
C2 M1	20220120 20220120		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	23.5	0.33333	8.83 8.2	8.1				19 5			/
M1 M1	20220120 20220120		Moderate	Mid-Flood Mid-Flood	Surface	1	0.36181	8.2	8.1				5			1
M1	20220120	Sunny	Moderate	Mid-Flood	Middle	3.4	0.36111	8.14	8.1	3 34	20.09	6.63	9	0.294	SE	/
M1 M1	20220120		Moderate	Mid-Flood Mid-Flood		3.4		8.25	8.1							/
M1 M1	20220120 20220120		Moderate Moderate	Mid-Flood Mid-Flood		5.8		8.15 8.34	8.1						E	1
M2	20220120	Sunny	Moderate	Mid-Flood	Surface	1	0.37431	8.78	8.3	2 34.12	20.1	7.59	7	0.297		/
M2	20220120		Moderate	Mid-Flood		1	0.37431	8.66	8.2							/
M2 M2	20220120 20220120		Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	6.45 6.45		8.76 8.79	8.1				8			1/
M2	20220120		Moderate	Mid-Flood		11.9	0.37292	8.75	8.2	2 34.22	20.12	7.93	4	0.281	E	/
M2	20220120	Sunny	Moderate	Mid-Flood	Bottom	11.9	0.37292	8.71	8.1	5 34.15	20.15	7.76	7	0.287	E	/
M3 M3	20220120 20220120		Moderate Moderate	Mid-Flood Mid-Flood		1	0.34861	8.65 8.8	8.2				6			/
VI3 VI3	20220120		Moderate	Mid-Flood Mid-Flood		3.7		8.8	8.1							/
	20220120	Sunny	Moderate	Mid-Flood	Middle	3.7	0.34792	8.74	8.1	5 34.89	20.16	7.62	5	0.265	SE	/
M3		Sunny	Moderate	Mid-Flood		6.4		8.74	8.1							/
M3 M3		Supply	Modorate													
M3	20220120 20220120 20220120		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	6.4		8.83 8.51	8.1				6			/
M3 M3 M3	20220120	Sunny Sunny			Surface Surface		0.40625			5 33.91 8 33.96	20.34 20.33	8.11 8.03	8	0.291 0.271	E SE	/

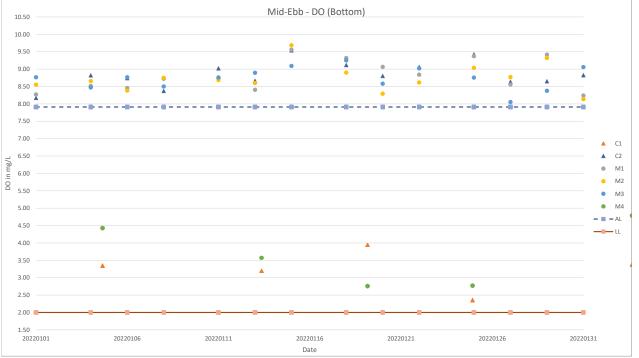
Location C1	Date 20220122	Weather Cloudy	Sea Condition Moderate	Tidal Mid-Flood	Water Level Surface	Depth (m) 1	Time 0.39236	DO (mg/L) 8.16	рН 8.1	Sal (ppt) 7 34.18	Temp (?) 19.99	Turbidty (NTU) 8.79	SS 11	Current Velocity (m/s) 0.264	Current Direction SE	Remark /
C1	20220122	Cloudy	Moderate	Mid-Flood	Surface	1	0.39236	8.02	8.1	6 34.04	19.94	8.84	12	0.29		/
C1 C1	20220122 20220122		Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	10.35		8.11 8.18	8. 8.1				11	0.296	SE	/
C1	20220122		Moderate	Mid-Flood	Bottom	10.33		8.19	8.1				10		SE	/
C1	20220122		Moderate	Mid-Flood	Bottom	19.7		8.14	8.				8		E	/
C2 C2	20220122 20220122		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	0.3375	8.21 8.19	8.2			11.1	8		E	/
C2	20220122	Cloudy	Moderate	Mid-Flood	Middle	10.8	0.33681	8.27	8.2	3 34.33	19.94	9.87	8	0.306	E	/
C2 C2	20220122 20220122		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	10.8 20.6		8.31 8.31	8.2				8		E	/
C2 C2	20220122		Moderate	Mid-Flood	Bottom	20.6		8.23	8.1				11	0.298	SE	/
M1	20220122		Moderate	Mid-Flood	Surface	1	0.36319	8.42	8.1				6		E	/
M1 M1	20220122 20220122		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	3.7	0.36319	8.41 8.6	8.2			8.28	6		E	/
M1	20220122		Moderate	Mid-Flood	Middle	3.7		8.56	8.2			8.02	9	0.311	E	/
M1	20220122		Moderate	Mid-Flood	Bottom	6.4		8.47	8.1				9		SE	/
M1 M2	20220122 20220122		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	6.4	0.36181	8.43 8.56	8.2				9		E	/
M2	20220122	Cloudy	Moderate	Mid-Flood	Surface	1	0.37569	8.62	8.1	4 33.81	20.16	8.38	7	0.279	E	/
M2 M2	20220122 20220122		Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	6.95 6.95		8.65 8.67	8.1		20.15		3		SE	/
M2	20220122		Moderate	Mid-Flood	Bottom	12.9		8.55	8.1				5	0.288	E	/
M2	20220122		Moderate	Mid-Flood	Bottom	12.9		8.65	8.1				5		SE	/
M3 M3	20220122 20220122		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	0.35139	8.87 8.97	8.2				5	0.285	SE F	/
M3	20220122		Moderate	Mid-Flood	Middle	4.05		8.91	8.2				4		SE	/
M3	20220122		Moderate	Mid-Flood	Middle	4.05		9.04	8.2				6		E	/
M3 M3	20220122 20220122		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Bottom	7.1		8.95 8.89	8.2				4	0.289	E SE	/
M4	20220122	Cloudy	Moderate	Mid-Flood	Surface	1	0.40764	8.82	8.2	5 34.65	20.19	8.77	4	0.305		/
M4	20220122		Moderate	Mid-Flood	Surface	1	0.40764	8.94	8.2				5	0.304	SE	/
M4 M4	20220122 20220122		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Bottom	4.3		8.78 8.92	8.1				6		E	/
C1	20220125	Cloudy	Moderate	Mid-Flood	Surface	1	0.46875	8.01	8.2	4 33.33	20.06	8.03	4	0.288	SE	/
C1 C1	20220125		Moderate	Mid-Flood	Surface	1	0.46875	8.1	8.2				4		E	/
C1 C1	20220125 20220125		Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	9.85 9.85		8.01 8.15	8.2				4		E	/
C1	20220125	Cloudy	Moderate	Mid-Flood	Bottom	18.7	0.46736	8.13	8.2	9 33.38	20.12	8.54	6	0.292	E	/
C1 (2)	20220125		Moderate	Mid-Flood Mid-Flood	Bottom	18.7		8.15	8.2				4		SE	/
C2 C2	20220125 20220125		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	0.41736	9.15 9.09	8.1 8.0				5		SE	/
C2	20220125	Cloudy	Moderate	Mid-Flood	Middle	10.5	0.41667	9.08	8.0	3 33.34	20.1	9.05	5	0.28	SE	/
C2 C2	20220125 20220125		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	10.5		9.1	8.1		20.04		4		SE	/
C2 C2	20220125		Moderate	Mid-Flood	Bottom	20		9.05	8.				4		SE	/
M1	20220125	Cloudy	Moderate	Mid-Flood	Surface	1	0.44236	8.25	8.1	3 33.52	20	7.31	5	0.304		/
M1 M1	20220125 20220125		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	1	0.44236	8.28 8.25	8.2				4	0.285	E	/
M1 M1	20220125		Moderate	Mid-Flood	Middle	3.3		8.36	8.1				3		SE	/
M1	20220125		Moderate	Mid-Flood	Bottom	5.6		8.29	8.1				4		SE	/
M1 M2	20220125 20220125		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	5.6	0.44097	8.3 8.04	8.2 8.1			7.28	4		SE	/
M2	20220125		Moderate	Mid-Flood	Surface	1	0.45764	8.04	8.1				4		E	/
M2	20220125		Moderate	Mid-Flood	Middle	6.4		8.09	8.1		20.04		4		SE	/
M2 M2	20220125 20220125		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	6.4 11.8		8.04 8.16	8.1				3		E SF	/
M2	20220125		Moderate	Mid-Flood	Bottom	11.8		8.09	8.1				6		SE	/
M3	20220125		Moderate	Mid-Flood	Surface	1	0.42917	8.06	8.1				5		E	/
M3 M3	20220125 20220125		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	3.6	0.42917	8.06 8.13	8.1				5		SE	/
M3	20220125		Moderate	Mid-Flood	Middle	3.6		8.19	8.0	8 34.31	20.07		4		E	/
M3	20220125		Moderate	Mid-Flood	Bottom	6.2		8.13	8.				5	0.296	SE	/
M3 M4	20220125 20220125		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	6.2	0.42778	8.18 7.99	8.0				4		E	/
M4	20220125	Cloudy	Moderate	Mid-Flood	Surface	1	0.48681	8.03	8.0	9 33.35	19.95	7.6	7	0.311	SE	/
M4	20220125		Moderate	Mid-Flood	Bottom	3.5		8.13	8.0				5		SE	/
M4 C1	20220125 20220127		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	3.5	0.48611	8.12 9.1	8.0 8.2			7.42	4		E	/
C1	20220127	Cloudy	Moderate	Mid-Flood	Surface	1	0.52153	8.99	8.1	9 32.82	20.03	8.12	3	0.299	SE	/
C1	20220127 20220127		Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	10.15		8.98 9.06	8.2				5	0.286	E	/
C1	20220127		Moderate	Mid-Flood Mid-Flood	Bottom	10.15		9.08	8.1				3		SE	/
C1	20220127	Cloudy	Moderate	Mid-Flood	Bottom	19.3	0.52014	9.08	8.2	7 32.89	20.08	8.23	3	0.296	SE	/
C2 C2	20220127 20220127		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1		8.01 8.12	8.1							/
C2	20220127	Cloudy	Moderate	Mid-Flood	Middle	11.85	0.47917	8.13	8.1	6 32.44	20.07	8.74	3	0.267	E	/
C2	20220127	Cloudy	Moderate	Mid-Flood	Middle	11.85	0.47917	8.12	8.1	8 32.42	20.05	8.99	3	0.303	SE	/
C2 C2	20220127 20220127		Moderate Moderate	Mid-Flood Mid-Flood		22.7		8.06 8.1	8.1				5			/
M1	20220127	Cloudy	Moderate	Mid-Flood	Surface	1	0.5	8.87	8.0	8 31.94	20.19	8.29	4	0.269	E	/
M1	20220127		Moderate	Mid-Flood	Surface	1		8.92	8.1							/
M1 M1	20220127 20220127		Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	3.7		8.8 8.8	8.0 8.0							/
M1	20220127	Cloudy	Moderate	Mid-Flood	Bottom	6.4	0.49861	8.81	8.0	9 31.94	20.11	7.88	5	0.293	SE	/
M1	20220127		Moderate	Mid-Flood		6.4		8.84	8.0							/
M2 M2	20220127 20220127		Moderate Moderate	Mid-Flood Mid-Flood		1	0.51042	8.02 8.05	8.1							/
M2	20220127	Cloudy	Moderate	Mid-Flood	Middle	6.9	0.50972	8.09	8.1	5 31.83	19.92	7.85	4	0.277	SE	/
M2 M2	20220127		Moderate	Mid-Flood Mid-Flood	Middle	6.9		8 02					4			/
M2 M2	20220127 20220127		Moderate Moderate	Mid-Flood Mid-Flood		12.8 12.8		8.02 8.09	8.1							/
M3	20220127	Cloudy	Moderate	Mid-Flood	Surface	1	0.48958	8.81	8.2	1 32.06	20.11	7.05	4	0.281	SE	/
M3	20220127		Moderate	Mid-Flood		1		8.84	8.1						SE	/
M3 M3	20220127 20220127		Moderate Moderate	Mid-Flood Mid-Flood		3.7		8.82 8.82	8.2				5		E	/
M3	20220127	Cloudy	Moderate	Mid-Flood	Bottom	6.4	0.48819	8.9	8.2	4 32.03	20.17	6.92	6	0.263	E	/
M3	20220127		Moderate	Mid-Flood	Bottom	6.4		8.86	8.1				4			/
M4 M4	20220127 20220127		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	0.53403	8.67 8.76	7.9				5			/
M4	20220127	Cloudy	Moderate	Mid-Flood	Bottom	4.6	0.53333	8.69	8.0	8 32.64	20.17	6.46	5	0.287	SE	/
M4	20220127	Cloudy	Moderate	Mid-Flood	Bottom	4.6	0.53333	8.73	8.0	7 32.58	20.14	6.53	4	0.294	SE	/

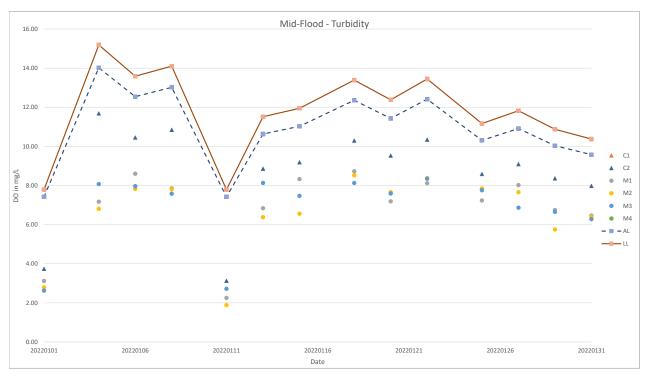
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Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L) p		Sal (ppt)	Temp (?)	Turbidty (NTU)			Current Direction	Remark
C1	20220129 20220129		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	0.60486	8.7	8.04	34.31	20.27	7.25	3	0.274 0.299		_/
C1	20220129		Moderate	Mid-Flood Mid-Flood	Middle	9.7	0.60486	8.74	8.09		20.43	7.48	4	0.299		-/
C1	20220129		Moderate	Mid-Flood	Middle	9.7	0.60417	8.78	8.13		20.34	7.19	20	0.304		/
C1	20220129	Cloudy	Moderate	Mid-Flood	Bottom	18.4	0.60347	8.6	8.07	34.24	20.41	7.42	19	0.285	SE	/
C1	20220129		Moderate	Mid-Flood	Bottom	18.4	0.60347	8.66	8.04		20.26	7.48	20	0.283	E	/
C2	20220129 20220129		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	0.55	9.28 9.13	8.23		20.5	8.49	12 12	0.283	SE E	/
C2	20220129		Moderate	Mid-Flood	Middle	11		9.19	8.22		20.43	8.13	4	0.265	SE	/
C2	20220129		Moderate	Mid-Flood	Middle	11		9.26	8.19		20.46	8.31	6	0.301		/
C2	20220129		Moderate	Mid-Flood	Bottom	21	0.54861	9.16	8.21	33.08	20.31	8.01	13	0.289		/
C2 M1	20220129 20220129		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	21	0.54861 0.57917	9.27 9.16	8.17	33.03 33.57	20.4	8.24	13	0.292	SE	/
M1	20220129		Moderate	Mid-Flood Mid-Flood	Surface	1	0.57917	9.16	8.09		20.53	6.99	4	0.281	SF	-/
M1	20220129		Moderate	Mid-Flood	Middle	3.4	0.57847	9.18	8.08	33.47	20.38	6.78	4	0.267		/
M1	20220129	Cloudy	Moderate	Mid-Flood	Middle	3.4	0.57847	9.17	8.13	33.45	20.47	6.74	5	0.263	E	/
M1	20220129		Moderate	Mid-Flood	Bottom	5.8	0.57778	9.19	8.09		20.41	6.83	4	0.298		/
M1 M2	20220129 20220129		Moderate Moderate	Mid-Flood Mid-Flood	Bottom	5.8	0.57778	9.24 8.79	8.05		20.53	6.6 5.53	4	0.295		/
M2 M2	20220129 20220129		Moderate	Mid-Flood Mid-Flood	Surface	1	0.59306	8.79	8.15		20.44	5.53	4	0.311	E	/
M2	20220129		Moderate	Mid-Flood	Middle	6.4	0.59236	8.79	8.15		20.39	5.92	5	0.302	SE	/
M2	20220129		Moderate	Mid-Flood	Middle	6.4	0.59236	8.81	8.09		20.43	5.65	7	0.264	SE	/
M2	20220129		Moderate	Mid-Flood	Bottom	11.8	0.59167	8.67	8.09		20.37	5.85	4	0.286	E	/
M2 M3	20220129 20220129		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	11.8	0.59167	8.74 9.12	8.11	33.14	20.37 20.41	5.85	4	0.269	F	/
M3	20220129		Moderate	Mid-Flood	Surface	1	0.56736	9.03	8.15	33.94	20.41	6.73	10	0.263	E	/
M3	20220129		Moderate	Mid-Flood	Middle	3.45	0.56667	9.09	8.19		20.39	6.46	5	0.287	SE	/
M3	20220129	Cloudy	Moderate	Mid-Flood	Middle	3.45	0.56667	9.17	8.13		20.54	6.76	4	0.284		/
M3	20220129		Moderate	Mid-Flood	Bottom	5.9	0.56597	9.19	8.12		20.55	6.73	4	0.297		/
M3 M4	20220129 20220129		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	5.9	0.56597	8.97 8.59	8.14		20.5	6.41	4	0.311	SE E	_/
M4	20220129		Moderate	Mid-Flood	Surface	1	0.61875	8.58	8.16		20.18	6.22	4	0.31	SE	/
M4	20220129		Moderate	Mid-Flood	Bottom	4.7	0.61736	8.58	8.21		20.35	6.42	3	0.299	E	/
M4	20220129		Moderate	Mid-Flood	Bottom	4.7	0.61736	8.44	8.16		20.23	6.02	5	0.269		/
C1	20220131		Moderate	Mid-Flood	Surface	1	0.6875	9.13 9.25	8.04		20.19 20.23	6.63	5	0.299		/
C1 C1	20220131 20220131		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	10.35	0.6875	9.25	8.08		20.23	6.96 7.13	3	0.303	F	-/
C1	20220131		Moderate	Mid-Flood	Middle	10.35	0.68681	9.12	8.08		20.2	7.24	2.5	0.281	E	/
C1	20220131	Cloudy	Moderate	Mid-Flood	Bottom	19.7	0.68611	9.29	8.01	33.68	20.23	6.74	4	0.283		/
C1	20220131		Moderate	Mid-Flood	Bottom	19.7	0.68611	9.09	8.06		20.26	6.65	2.5	0.278		/
C2	20220131 20220131		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	0.63125	9.09 9.19	8.01		20.2	6.99 7.24	2.5	0.307		/
C2 C2	20220131	Cloudy	Moderate	Mid-Flood Mid-Flood	Middle	12		9.19	8.03		20.24	7.95	4	0.266		-/
C2	20220131		Moderate	Mid-Flood	Middle	12		9.22	8		20.12	8.88	14	0.267	E	/
C2	20220131	Cloudy	Moderate	Mid-Flood	Bottom	23		9.17	7.97		20.14	8.52	12	0.292	E	/
C2	20220131		Moderate	Mid-Flood	Bottom	23	0.62986	9.18	7.98		20.19	8.3	12	0.269		/
M1 M1	20220131 20220131		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	0.65625	8.8 8.86	7.94		20.02 20.06	6.5	4	0.278		/
M1 M1	20220131		Moderate	Mid-Flood Mid-Flood	Middle	3.45	0.65556	8.89	7.95		20.08	6.4	2.5	0.304	E	/
M1	20220131	Cloudy	Moderate	Mid-Flood	Middle	3.45	0.65556	8.85	8.03		20.1	6.29	3	0.293	E	/
M1	20220131	Cloudy	Moderate	Mid-Flood	Bottom	5.9	0.65486	8.81	7.95		20.04	6.31	5	0.295		/
M1 M2	20220131		Moderate	Mid-Flood	Bottom	5.9	0.65486	8.74	8.09		19.97	6.67	4	0.271	-	/
M2 M2	20220131 20220131		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	0.67083	9.23 9.15	8.09		20.18 20.05	6.47	2.5	0.309	SE SF	/
M2	20220131		Moderate	Mid-Flood	Middle	6.55	0.67014	9.27	8.02		20.03	6.49	5	0.302		/
M2	20220131	Cloudy	Moderate	Mid-Flood	Middle	6.55	0.67014	9.04	8	32.92	20.21	6.58	3	0.291	SE	/
M2	20220131		Moderate	Mid-Flood	Bottom	12.1	0.66944	9.24	8.03		20.16	6.19	5	0.273		/
M2 M3	20220131		Moderate	Mid-Flood	Bottom	12.1	0.66944	9.21 9.41	8.01	32.96	20.15	6.07	4	0.293 0.302	SE	/
M3 M3	20220131 20220131		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	0.64306	9.41	8.03		20.24 20.25	6.3	5	0.302	SF	/
M3	20220131		Moderate	Mid-Flood	Middle	4		9.45	8.06		20.23	6.22	7	0.311		/
M3	20220131	Cloudy	Moderate	Mid-Flood	Middle	4	0.64236	9.3	8.03	33.82	20.25	6.43	7	0.288	E	/
M3	20220131		Moderate	Mid-Flood	Bottom	7	0.64167	9.37	8.08		20.21	6.19	3	0.267	E	/
M3	20220131		Moderate	Mid-Flood	Bottom	7	0.64167	9.35	8.11		20.2	6.1	3	0.28	SE	/
M4 M4	20220131 20220131	Cloudy Cloudy	Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1		9.13 9.08	8.01		20.19 20.17	5.71	2.5	0.294 0.285	E SF	/
M4	20220131		Moderate	Mid-Flood	Bottom	3.6		9.19	7.98		20.17	5.61	3	0.285	E	/
M4	20220131		Moderate	Mid-Flood	Bottom	3.6		9.21	8.04		20.19	5.37	4	0.269	SE	/

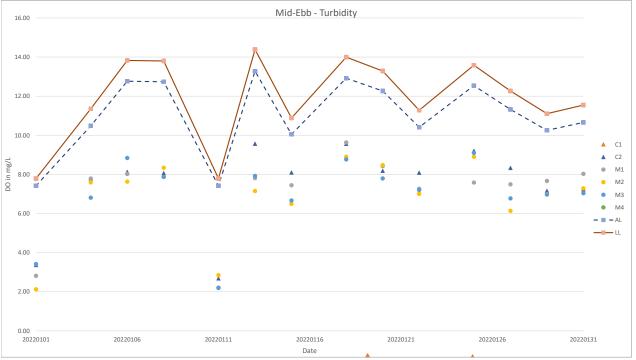


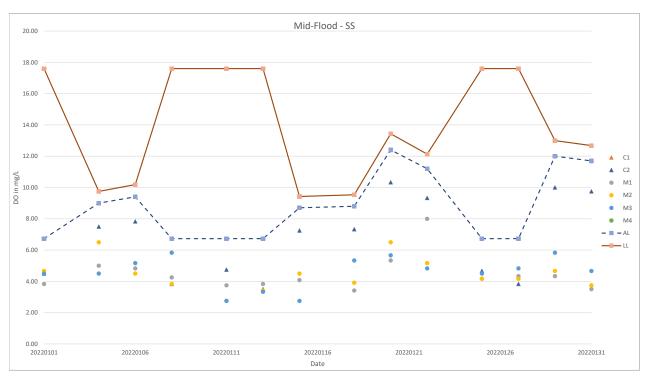


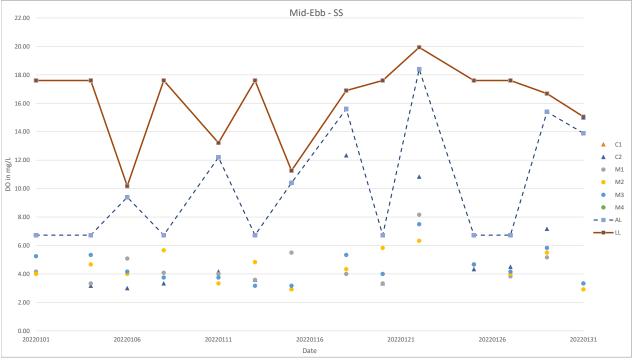














<u>Appendix J</u> <u>Complaint Log</u>



Statistical Summary of Environmental Complaints

Reporting	Envir	onmental Complaint Stat	tistics		
Period	Frequency	Cumulative	Complaint Nature		
January 2022	0	0	N/A		

Statistical Summary of Environmental Summons

Reporting Period	Envir	conmental Summons Stat	istics		
Period	Frequency	Cumulative	Details		
January 2022	0	0	N/A		

Statistical Summary of Environmental Prosecution

Reporting Period	Environmental Prosecution Statistics							
Period	Frequency	Cumulative	Details					
January 2022	0	0	N/A					