





Contract No. PI 2/2020

Environmental Monitoring Works for Lei Yue Mun Waterfront Enhancement Project

Monthly EM&A Report (September 2023)

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HKCEDD15/50/109236

12 October 2023

Attention: Mr Daniel K Y Leung

BY EMAIL & POST (email: dkyleung@cedd.gov.hk)

Dear Sirs

Agreement No.: PI 3/2020 Independent Environmental Checker for Lei Yue Mun Waterfront Enhancement Project Verification of Monthly Environmental Monitoring and Audit Report (September 2023)

We refer to email of 10 October 2023 from Acuity Sustainability Consulting Limited attaching a Monthly Environmental Monitoring and Audit Report (September 2023).

We have no comments and hereby verify the captioned report in accordance with Clause 3.4 of the Environmental Permit no. EP-564/2018 and Section 13.4 of the Environmental Monitoring and Audit Manual.

Should you have any queries, please do not hesitate to contact the undersigned or our Mr Ricky Lau at 2618 2831.

Yours faithfully ANEWR CONSULTING LIMITED

James Choi Independent Environmental Checker

CPSJ/LCCR/lsmt

cc ArchSD – Mr Ken Cheung (email: cheunkk3@archsd.gov.hk) Acuity – Mr Kevin Li (email: kli@acuityhk.com) Acuity – Mr Kelvin Lau (email: klau@acuityhk.com)

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REVISION HISTORY

Rev.	DESCRIPTION OF MODIFICATION	DATE
0	First Issue for Comments	10 October 2023



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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 29th Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 September to 30 September 2023.

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	
 <u>Contract No. CV/2020/09</u> Construction of sloping seawall at landing facility Construction of pile cap at Landing Facility Placement of precast unit at Landing Facility Structural monitoring for nearby existing structures <u>Contract No. TC J517</u> Floor finishing work 	EXISTING LOOKUP PRINT EXISTING LOOKUP PRINT	

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

- Potential impact on water quality during rock drilling and hydraulic jacking, installation of seawall blocks near sea-side of Landing Facility and cast in-situ of pile caps.
- Construction dust and noise generation from rock drilling
- C&D waste generation



- A7. The key environmental mitigation measures implemented for the Project in this reporting period associated with the above construction works include:
 - Silt curtains was deployed enclosing all relevant working areas near seaside. Weekly inspection on the silt curtain on the silt curtain condition by the contractor should be carried out.
 - Stockpiling area should be provided with covers and water spraying system to prevent materials from being washed away.
 - Minimized surface run-off in adjacent marine waters and programmed to minimize soil excavation works during inclement weather.
 - Sort out demolition debris and excavated materials from demolition works to recover reusables.
 - 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.
 - Reduction of noise from equipment and machinery on-site
 - Sorting and storage of general refuse and construction waste

SUMMARY OF EXCEEDANCE & INVESTIGATION & FOLLOW-UP

- A8. No noise-related exceedance was recorded in the reporting period.
- A9. In this reporting period, water quality monitoring exceedances was recorded and summarized below. According to the Main Contractor photo records and Weekly Inspection Checklist for Silt Curtain on 20th September 2023, no evidence of muddy water seepage was observed outside the Silt curtain and Silt curtain checklist was shown the silt curtain is in good condition. According to the field observation by sampling team during sampling event on 21 September 2023, no silt plume was observed at all monitoring locations. Based on the above, it is no substantial evident that the SS exceedance is related to the project.
- A10. Weekly site inspections of the construction work by ET were carried out on 7, 14, 21, and 28 September 2023 to audit the mitigation measures implementation status. Observations were recorded on 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		
Construction of sloping seawall at landing	Landing Facility	
Construction of pile cap at landing	Landing Facility	
Placement of precast unit at landing	Landing Facility	
Structural monitoring for nearby existing structures	Landing Facility	
Contract No. TC J517		
Floor finishing work	Site	
Timber wooden installation at top of railing	Site	

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

- Impact on water quality from inland construction works
- Construction dust and noise generation from excavation and construction works
- Waste generation from construction activities
- A16. The key environmental mitigation measures for the Project in the coming reporting period associated with the above construction works will include:
 - High loading of SS in site run-off should be prevented through proper site management by the contractor.
 - Seawall modification works should be undertaken during low tide, when the water level is low.
 - Cover soil stockpiles to prevent materials from being wind-blown or washed away.
 - Minimized surface run-off in adjacent marine waters and programmed to minimize soil excavation works during inclement weather.
 - Silt curtain deployment zone should surround all relevant working areas including rock excavation zone near seaside. Weekly inspection on the silt curtain condition by the contractor to ensure the performance.
 - 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.



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), the Works were substantially completed on 31 October 2022 and handed over. The maintenance period for the above stated Works under **Contract no. TC J517** commenced on 1 November 2022 and will expire on 31 October 2023.

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 29th Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 September to 30 September 2023.

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**.



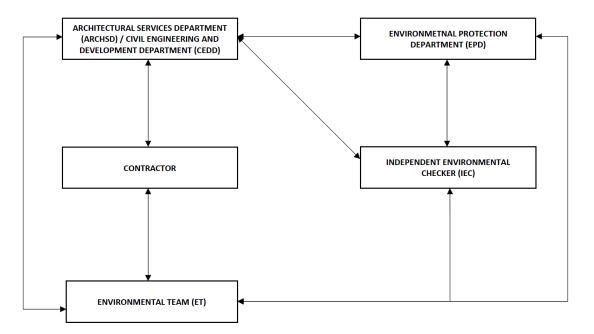


Figure 1.1 Project Organization Chart

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	Mr. Daniel Leung	2760 5737
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	Environmental Officer	Mr. Samson Ho	6335 2008

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	Ms. Carla Cheung	2867 3483			
ANewR	Independent Environmental Checker	Mr. Choi Pui Sum, James	2618 2831			
Acuity Sustainability Consulting Limited	Environmental Team	Mr. Li Wai Ming, Kevin	2698 6833			
Shui On Building Contractors Ltd	Safety Officer	Mr. Ho Tsz Lung	9862 0377			



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	
Construction of sloping seawall at landing	Landing Facility
Construction of pile cap	Landing Facility
Placement of precast frame unit	Landing Facility
Structural monitoring for nearby existing structures	Landing Facility
Contract No. TC J517	
Floor finishing work	Site



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 Construction	7039364	Throughout the Contract
Waste		
Discharge Licence under	WT00040594-2022	Valid to 30 Jun 2027
Water Pollution Control Ordinance		
<u>Contract No. TC [517</u>		
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 Construction	7039353	Throughout the Contract
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.

Table 1.4 Summary of Status for Key Environmental Aspects under the EM&A Manual

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.

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

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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 Baseline and Impact Monitoring

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 29th Monthly EM&A Report (September 2023)



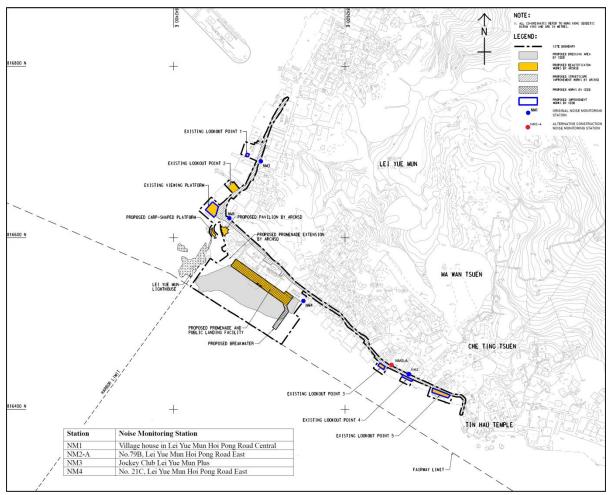


Figure 2.1 Noise Monitoring Locations



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 Tech ST11D (Serial no.: 820242)
Sound Level Meter	RION NL-52 (Serial No.: 01010877)
Sound Calibrator	RION NC-75 (Serial No.: 35124527)
Sound Calibrator	RION NC-75 (Serial No.: 35124528)

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**.

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**.

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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. 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)				
LUCATION	L _{eq 30min} Daytime (7:00-19:00 on normal weekdays)				
NM1	55.0 - 62.1				
NM2-A	59.1 - 62.6				
NM3	63.9 - 64.3				
NM4	55.3 - 70.1				

Table 2.6 Summary of Noise Monitoring Results in the Reporting Month

No noise monitoring exceedance was recorded in the reporting period.



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**.

Unit	Abbreviation	Abbreviation					
In-situ measurements							
mg/L	DO						
٥C	-						
-	-						
NTU	-						
mg/L	-						
·							
mg/L	SS						
	mg/L °C - NTU mg/L	mg/L DO oC - - - NTU - mg/L -					

Table 3.1 Parameters measured in the marine water quality monitor	ing
Tuble bit i didineters measured in the marine water quanty monitor	

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 DO meter, YSI 5739 probe, YSI 5795A submersible stirrer with reel and cable or an approved similar instrument).

Turbidity Measurement Equipment - The instrument will be a portable, weatherproof turbiditymeasuring unit complete with cable, sensor and comprehensive operation manuals. The equipment will be operated from a DC power source, it will have a photoelectric sensor capable of measuring turbidity between 0 - 1000 NTU and will be complete with a cable with at least 35 m in length (for example Hach 2100P or an approved similar instrument).

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.



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 re-calibrated at monthly intervals throughout the stages of the water quality monitoring. Responses of sensors and electrodes will be checked with certified standard solutions before each use.

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

3.5. 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.

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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



aurecon

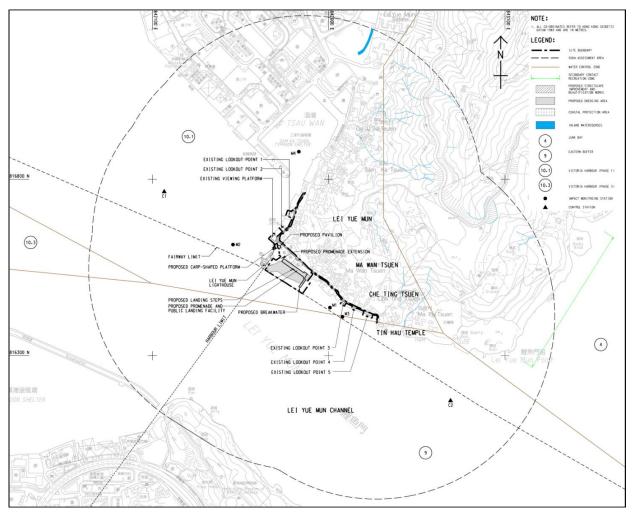


Figure 3.1 Water quality monitoring locations under EM&A Manual

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	<u>Surface and Middle</u> 7.95 mg L ^{.1} <u>Bottom</u> 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:

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**.

Location		Parameters							
		Dissolved Oxygen (mg/L)			Turbidity		Suspended Solids		
		S&M ⁽ⁱ⁾		B(i)		(NTU)		(mg/L)	
		Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb
	Avg.	8.56	8.80	8.59	8.81	2.73	3.07	3	3
C1	Min.	8.24	8.50	8.31	8.59	2.61	2.94	3	3
	Max.	9.14	9.22	9.15	9.23	2.83	3.25	4	4
	Avg.	8.68	8.77	8.65	8.77	3.06	2.74	3	3
C2	Min.	8.25	8.37	8.08	8.33	2.93	2.55	3	3
	Max.	9.41	9.44	9.42	9.35	3.25	2.97	4	5
	Avg.	8.64	8.79	8.67	8.76	2.18	2.04	3	3
M1	Min.	8.27	8.29	8.39	8.29	1.83	1.75	3	3
	Max.	9.19	9.60	9.18	9.65	2.50	2.35	5	5
	Avg.	8.69	8.81	8.69	8.79	2.17	2.15	3	4
M2	Min.	8.29	8.34	8.26	8.36	1.84	1.78	3	3
	Max.	9.45	9.26	9.41	9.23	2.49	2.33	4	10
	Avg.	8.66	8.60	8.65	8.63	2.04	2.19	3	4
M3	Min.	8.25	8.12	8.30	8.19	1.77	1.86	3	3
	Max.	9.17	9.04	9.17	9.14	2.33	2.38	5	9
	Avg.	8.74	8.56	8.76	8.58	2.04	2.22	3	3
M4	Min.	8.23	8.28	8.30	8.24	1.87	1.94	3	3
Notos	Max.	9.19	9.05	9.26	9.01	2.30	2.52	5	9

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

Notes:

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



In this reporting period, water quality monitoring exceedances was recorded and summarized below. According to the Main Contractor photo records and Weekly Inspection Checklist for Silt Curtain on 20th September 2023, no evidence of muddy water seepage was observed outside the Silt curtain and Silt curtain checklist was shown the silt curtain is in good condition. According to the field observation by sampling team during sampling event on 21 September 2023, no silt plume was observed at all monitoring locations. Based on the above, it is no substantial evident that the SS exceedance is related to the project.

Date	Tidal	Location	Parameter	Monitoring Result	AL	LL
21/9/2023	Mid-Ebb	M2	SS	10.2	6.7	17.6
21/9/2023	Mid-Ebb	M3	SS	8.8	6.7	17.6
21/9/2023	Mid-Ebb	M4	SS	9.0	6.7	17.6

Notes: SS: Suspended Solids



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 2021, 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 20 and 21 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 4.2.1**.

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.



Event		Action								
Event	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. 							

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4.3. MONITORING RESULTS AND OBSERVATIONS

The final session of Post-translocation Monitoring was performed on 26 May 2022 and fulfilled the approved Coral Translocation Plan requirement (i.e. monitoring will be conducted quarterly for one year after the coral translocation work.) and additional monitoring will be conducted after the construction work.

4.4. DISCUSSION AND CONCLUSION

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



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 as of September 2023

 Department:
 CEDD

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



Monthly Summary Waste Flow Table for Yea	ar 2023
--	---------

		Quantities of Inert C&D Materials Generated Monthly									Quantities of C&D Wastes Generated Monthly													
Month	Total Q Gene	. ,	Con	iken crete lote 2)	Reused Con	d in the tract		ed in Projects		sed as ic Fill	Alterr Disp	osal at native oosal und	Impor	ted Fill	Me	tals		er / board aging		stics lote 3)	Cher Wa	nical Iste	Other general	s, e.g. I refuse
	(in '00	00m³)	(in '0	00m³)	(in '0	00m³)	(in '0	00m³)	(in '0	00m³)	(in '0	00m³)	(in '0	00m³)	(in '0	00kg)	(in '0	00kg)	(in '0	00kg)	(in '0	00kg)	(in '00	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	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb	2.02	0	0	0	0	0	0	0	0.02	0	2	0	0	0	0	0	0	0	0	0	0	0	0.02	0
Mar	2.02	0	0	0	0	0	0	0	0.02	0	2	0	0	0	0	0	0	0	0	0	0	0	0.01	0
Apr	2.02	0.32	0	0	0	0	0	0	0.02	0	2	0.32	0	0	0	0	0	0	0	0	0	0	0.01	0
May	2.02	0	0	0	0	0	0	0	0.02	0	2	0	0	0	0	0	0	0	0	0	0	0	0.005	0
Jun	2.02	0	0	0	0	0	0	0	0.02	0	2	0	0	0	0	0	0	0	0	0	0.01	0	0.005	0
Sub-total	10.12	0.32	0	0	0	0	0	0	0.12	0	10	0.32	0	0	0	0	0	0	0	0	0.01	0	0.05	0
Jul	0.2	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0.005	0
Aug	0.3	0	0	0	0	0	0	0	0.3	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0.005	0
Sep	0.3	0	0	0	0	0	0	0	0.3	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0.005	0
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	0.32	0	0	0	0	0	0	1.52	0	10.00	0.32	0	0	0	0	0	0	0	0	0.02	0	0.08	0

	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 '000m³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m³)	(in '000m³)	(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.



Archite	Form No. D/OI.03/09.002			
Contract No. / Works Order No.: -	TCJ 517 / ASD012730	Final Submission	No	

Monthly Summary Waste Flow Table fr 2023 [year] [to be submitted not later than the 15th day of each month following reporting month]

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

	Actual Quantities of Inert Construction Waste Generated Monthly						
Month	(a)=(b)+(c)+(d)+(e) Total Quantity Generated	(b) Broken Concrete (see Note 4)	(c) Reused in the Contract	(d) Reused in other Projects	(e) Disposed of as Public Fill		
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)		
Jan	0.000	0.000	0.000	0.000	0.000		
Feb	0.046	0.000	0.000	0.000	0.046		
Mar	0.026	0.000	0.000	0.000	0.026		
Apr	0.013	0.000	0.000	0.000	0.013		
May	0.000	0.000	0.000	0.000	0.000		
Jun	0.039	0.000	0.000	0.000	0.039		
Sub-total	0.124	0.000	0.000	0.000	0.124		
Jul	0.000	0.000	0.000	0.000	0.000		
Aug	0.000	0.000	0.000	0.000	0.000		
Sep	0.000	0.000	0.000	0.000	0.000		
Oct	0.000						
Nov	0.000						
Dec	0.000						
Total	0.124	0.000	0.000	0.000	0.124		

Architectural Services Department Standard Form No. 0i03-09.002a First Issue Date - 20 : 07 : 2009 Current Issue Date - 18 : 04 : 2017

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

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

Water monitoring exceedances were recorded in reporting period. After investigation, the overall exceedances on SS are due to the localized water quality affected by non-project related events.

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

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



7. EM&A SITE INSPECTION

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting period, site inspections were carried out on 7, 14, 21 and 28 September 2023.

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 actio	n of last month site observation(s)	
	1. Nil.	1
	<u>n(s) in reporting month</u>	
7 September 23	 <u>CEDD</u> Silt curtain was observed too close offshore and the silt curtain was not good condition. The contractor is reminded that silt curtain should be improved asap. 	1. Silt curtain was improved.
	2. General materials should not placed at the chemical cabinet.	2. General materials were removed.
	3. (Reminder) Wet set should be well-connect use on-site.	3. N.A.
	<u>ASD</u> 1. Nil	1. N.A.
14 September 23	<u>CEDD</u> 1. Environmental Permit should be placed at the entrance.	1. Environmental Permit was placed at the site entrance.
	2. (Reminder) Stagnant water should be cleared on the drip tray.	2. N.A.
	3. (Reminder) General waste and C&D waste should be cleared.	3. N.A.
	4. (Reminder) Sedimentation Tank should be provided on-site.	4. N.A.

Table 7.1 Site Observations





Date	Environmental Observations	Follow-up Status
	5. (Reminder) Silt curtain should be good condition.	5. N.A.
	ASD 1. Nil	1. N.A.
21 September 23	 <u>CEDD</u> 1. A part of the silt curtain was observed too close offshore. The contractor was reminded that the silt curtain is makesure that good condition when marine work is continuous. 	1. Silt curtain was improved.
	2. (Reminder) The sedimentation tank should be provide on-site.	2. N.A.
	<u>ASD</u> 1. Nil	1. N.A.
28 September 23	<u>CEDD</u> 1. Silt curtain should be maintained and fit in position to avoid seepage of muddy water.	1. Silt curtain was improved.
	ASD 1. Nil	1. N.A.

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		
Construction of sloping seawall at landing	Landing Facility	
Construction of pile cap at landing	Landing Facility	
Placement of precast unit at landing	Landing Facility	
Structural monitoring for nearby existing structures	Landing Facility	
Contract No. TC J517		
Floor finishing work	Site	
Timber wooden installation at top of railing	Site	

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

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

The key environmental mitigation measures for the Project in the coming reporting period associated with the above construction works will include:

- High loading of SS in site run-off should be prevented through proper site management by the contractor.
- Seawall modification works should be undertaken during low tide, when the water level is low.
- Cover soil stockpiles to prevent materials from being wind-blown or washed away.
- Minimized surface run-off in adjacent marine waters and programmed to minimize soil excavation works during inclement weather.
- Silt curtain deployment zone should surround all relevant working areas including rock excavation zone near seaside. Weekly inspection on the silt curtain condition by the contractor to ensure the performance.
- 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.

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 29th Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 September to 30 September 2023, 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 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	55.0 - 62.1
HPRE 75B*	55-75	NM2-A	59.1 - 62.6
LYMP	70	NM3	63.9 - 64.3
HPRE 21C	67-75	NM4	55.3 - 70.1

*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>

					0		EDD Contract No															
Act		Orig	Early	Early			n of Lei Yue Mun							2022						2023		
ID	Description	Orig Dur	Start	Finish	Float	EC JAI	AN FEB MAR APR I	MAY JUN JU	UL AUG SE	P OCT NO	IV DEC JA	IN FEB MA	R APR MA	Y JUN JUL	AUG	SEP OCT	NOV DEC) JAN FEI	B MAR A	PR MAY JU	IN JUL ,	AUG SEP
Key Dates																						
K1-1000	and Starting Date Acceptance of Tender		15DEC20 A			`																
K1-1000	Commencement of the Works		29DEC20 A			۱																
Completion Da			2301020 A			10																
K2-1000	Section 1 of the Works	0		30APR23 *	0															•		
K2-1010	Section 2 of the Works	0		30APR23 *	0															•		
K2-1020	Section 3 of the Works	0		28FEB22 A								•										
K2-1100	Whole of the Works	0		30APR23 *	0															e		
Site Access Da																						
K3-1000	Access to Part A of the Site		29DEC20 A																			
K3-1010	Access to Part B of the Site		29DEC20A			•																
K3-1020 K3-1030	Access to Part C of the Site Access to Part D of the Site		24DEC21 A 29DEC20 A		$\left - \right $						τ											
K3-1030	Access to Part E of the Site		29DEC20 A 29DEC20 A		$\left - \right $																	
K3-1040	Access to Part E of the Site		29DEC20 A			Þ															* * * * * * * *	
Bill No. 1 - Prelin				I																		
General Prelim																						
B1-1000	Statutory Notifications (LD/EPD/CIC/PCFB)		15DEC20 A	11JAN21 A																		
B1-1010	Notification of Marine Works		28JAN21 A	17FEB21 A																		
B1-1100	General Site Clearance		29DEC20 A	25JAN21 A					<u> </u>													
B1-1200	Provision of Land Transport for PM		29DEC20A	04JAN21 A																		
B1-1210 B1-1220	Provision of 24-hr Telephone Hotline		29DEC20 A 22FEB21 A	04JAN21 A 30MAR21 A							+ + + + + + + + + + + + + + + + + + + +		9-1-1 - 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-					+ + + + +				
B1-1220 B1-1300	Design of Project Website Initial Topographic Survey		05JAN21 A	25JAN21 A																		
B1-1300	Initial Hydrographic Survey		10AUG21 A	19AUG21 A					-													
B1-1310	Condition Survey		03FEB21 A	08FEB21A			- -															
B1-1320	Establishment of Structural Monitoring		26JAN21 A	08FEB21 A																		
B1-1400	Tree Survey & Tree Risk Assessment	10	19JAN21 A	28JAN21 A		-																
B1-1410	Tree Felling	10	29JAN21 A	07FEB21 A																		
B1-1500	Submission of Noise Management Plan	30 (01APR21 A	30APR21 A			-															
Site Establish						LЦ																
B1-2000	Erection of Site Hoarding			25JAN21 A		Ţ																
B1-2100 B1-2110	Provision of Contractor's Site Accommodation Provision of PM's Principal Site Office		12JAN21 A 12APR21 A	08FEB21 A 12MAY21 A																		
B1-2120	Provision of PM's Container Site Office		26APR21A	26MAY21 A																		
B1-2200	Erection of Project Signboard		09JUL22 A	15JUL22 A																		
	Works																					
B1-3000	Coral Baseline Survey	2 0	05MAR21 A	06MAR21 A			e1															
B1-3100	Coral Translocation		20MAY21 A	21MAY21 A				- 1														
B1-3110	Coral Survey of Translocated Coral Colonies		22MAY21 A	23MAY21 A				••														
B1-3200	Final Coral Survey	14	18FEB23 A	16MAY23	-16d													1				
Bill No. 2 - Landi Site Clearance	ng Facility & Seawall																					
	Demolition of Existing Squatter			08FEB21 A			- -															
B2-1010	Removal of Existing Gabion Wall at Part B			01FEB21A			+															
B2-1020	Removal of Existing Armour Rock at Part B			08FEB21 A																		
Ground Investig	gation																					
B2-2000	Mobilization of Drilling Rig			29JAN21 A																		
B2-2010	Pre-drilling (13 Nos. Drillholes)	48	30JAN21 A	18MAR21 A																		
Pipe Pile Wall B2-3000	Mobilization of Piling Plant	7	14JUN21 A	20JUN21 A																		
B2-3000 B2-3010	Installation of Silt Curtain			20JUN21 A 20JUN21 A				F														
B2-3020	Installation & Grouting of Pipe Piles (86 Nos.)			18MAR22 A																		
22 3020		200							11111			11111111			الانجناء					1111111111		

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Act ID	Description	Orig Dur	Early Start	Early Finish	Total ² Float
B2-3030	Construction of Capping Beam & Panel Wall		23AUG22 A		
Socketted Stee					
B2-4000	Mobilization of Piling Plant	1	05NOV21 A	05NOV21 A	
B2-4010	Construction of Preliminary Pile	3	06NOV21 A	08NOV21 A	
B2-4020	Construction of Main Piles (34 Nos.)	108	09NOV21 A	24FEB22 A	
B2-4030	Grouting of Main Piles (34 Nos.)	38	08APR22 A	16MAY22 A	
B2-4100	Setup of Pile Testing Equipment	4	21MAR22 A	24MAR22 A	
B2-4110	Pile Load Test (1 No.)	8	25MAR22 A	04APR22 A	
B2-4200	Mobilization of Drilling Rig	4	17MAY22 A	20MAY22 A	
B2-4210	Post-construction Proof Drilling (4 NoS.)	14	21MAY22 A	10JUN22 A	
Dredging and	Sloping Seawall				
B2-5000	Mobilization of Excavation Plant	5	05NOV21 A	09NOV21 A	
B2-5100	Rock Excavation (Land-based)	500	10NOV21 A	31MAR23	-89d
B2-5200	Marine Dredging	10	13SEP21 A	22SEP21 A	
B2-5300	Placing of Levelling Stones	60	20NOV22 A	28APR23	-27d
B2-5310	Installation of Seawall Blocks	60	25JAN23 A	05MAY23	-27d
B2-5320	Placing of Rock Armours	60	01FEB23 A	12MAY23	-27d
Vertical Seawa					
B2-6000	Excavation to Formation Level (Bay 1)	14	28APR22 A	11MAY22 A	
B2-6010	Excavation to Formation Level (Bay 2)	14	110CT22 A	240CT22 A	
B2-6100	Placing of Rock Fill Foundation (Bay 1)	21	12MAY22 A	01JUN22 A	
B2-6110	Placing of Levelling Stones (Bay 2)	12	29DEC22 A	09JAN23 A	
B2-6120	Placing of Seawall Blocks (Bay 2)	3	10JAN23 A	12JAN23 A	
B2-6200	R.C. Wall w/ Granite Facing (Bay 1)	70	02JUN22 A	100CT22 A	
B2-6210	R.C. Wall w/ Granite Facing (Bay 2)	18	15JAN23 A	01FEB23A	
B2-6220	Backfilling behind R.C. Wall	7	02FEB23 A	08FEB23 A	
B2-6400	Placing of Rock Armours (Bay 1)	7	190CT22 A	250CT22 A	
B2-6410	Placing of Rock Armours (Bay 2)	7	13JAN23 A	19JAN23 A	
Linking Structu					1
B2-6500	Construction of Main Piles (4 Nos.)	21	16APR22 A	06MAY22 A	
B2-6600	Cast in-situ Pile Cap (PB13)	14	21JAN23 A	03FEB23 A	
Landing Steps					
B2-7000	Installation of Precast Pile Cap Walls (PW1-PW7)	49	29APR23	16JUN23	-87d
B2-7020	Installation of Precast Stringer Beams	21	20MAY23	09JUN23	-80d
B2-7030	Installation of Precast Tie Beams (B1-B5)	21	20MAY23	09JUN23	-80d
B2-7100	Cast in-situ Pile Caps (PB9-PB12)	60	10FEB23 A	31MAR23	-89d
B2-7101	Cast in-situ Pile Caps (PB1-PB3)	21	01APR23	21APR23	-89d
B2-7102	Cast in-situ Pile Caps (PB4-PB8)	75	01APR23	14JUN23	-89d
B2-7200	Installation of Precast Decking Slabs (S1-S17)	- 14	15JUN23	28JUN23	-89d
B2-7210	Installation of Precast Ramps	5	29JUN23	03JUL23	-89d
B2-7300	Installation of Precast Landing Slabs (L1-L5)	5	04JUL23	08JUL23	-89d
B2-7310	Installation of Precast Landing Steps (L6-L8)	3	09JUL23	11JUL23	-89d
Ancillary Works				4.4.11.10.10.7	
B2-8000	Installation of Corrosion Monitoring System	75	01APR23	14JUN23	-59d
B2-8010	Testing of Corrosion Monitoring System	14	15JUN23	28JUN23	-59d
B2-8100	Fabrication of Fender Waling	30	01APR23 *	30APR23	-40d
B2-8110	Installation of Fender System	30	17JUN23	16JUL23	-87d
B2-8200	Installation of Cathodic Protection System	21	17JUN23	07JUL23	-75d
B2-8300	Installation of Mooring Bollards	28	18MAY23	14JUN23	-45d
B2-8400	Installation of Stainless Steel Handrailing	10	12JUL23	21JUL23	-89d
B2-8500	Installation of Marine Notice Board	7	12JUL23	18JUL23	-79d
B2-8510	Installation of Structure Nr Plate & Info Plate	7	12JUL23	18JUL23	-79d
B2-8600	Vacation of Site Area	7	22JUL23	28JUL23	-89d

						EDD Contract No. CV/2020/09 on of Lei Yue Mun Public Landing Facility				
Act ID	Description	Orig Dur	Early Start	Early Finish	Total 2020	2021 2021 2022 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC J	an feb m/		2023 MAY JUN	JUL AUG SEP
Bill No. 3 - Breal										
Ground Investi			00.0000	40 11 10 10 4						
B3-2000	Mobilization of Drilling Rig & Jackup Barge	3	08JUN21 A	10JUN21 A						
B3-2010 Temporary Wo	Pre-drilling (8 Nos. Drillholes)	33	11JUN21 A	13JUL21 A	1 1 1 1					
B3-1000	Installation of Silt Curtain	3	04NOV21 A	06NOV21 A						
B3-1100	Submission of Temporary Works Design	54		03DEC21 A						
B3-1200	Installation of Temporary Piles	24		20JAN22 A						
B3-1210	Installation of Temporary Working Platform			29JAN22 A						
Socketted Ste			0.0202	2007.012277	1 1 1 1					
B3-3000	Mobilization of Piling Plant	7	11MAR22 A	17MAR22 A		₩,				
B3-3010	Construction of Preliminary Piles	23	24MAR22 A	15APR22 A						
B3-3020	Construction of Main Piles (34 Nos.)	113	16APR22 A	06AUG22 A						
B3-3100	Setup of Pile Testing Equipment	5	06JUL22 A	10JUL22 A						
B3-3110	Pile Load Test (2 Nos.)	20	11JUL22 A	30JUL22 A						
Breakwater St	ructure									
B3-4000	Modification of Temporary Working Platform	28	01SEP22 A	28SEP22 A						
B3-4010	Modification of Pile Heads (PMI No.55)	80	21NOV22 A	08FEB23 A						
B3-4100	Cast In-situ Pile Caps (PB14 & PB15)	120	280CT22 A	28FEB23 A						
B3-4110	Cast In-situ Breakwater Tip Pile Cap (BW2)	18	28FEB23	17MAR23	-87d					
B3-4120	Protective Coating on Pile Caps	18	18MAR23	04APR23	-63d					
B3-4200	Installation of Precast Frame Units (BW1 x 10)	14	29APR23	12MAY23	-87d					
B3-4210	Installation of Precast Frame Unit (BW3)	7	03JUN23	09JUN23	-53d				-	
B3-4400	Removal of Temporary Working Platform	14	18MAR23	31MAR23	30d					
Ancillary Work										
B3-5100	Installation of Navigation Light Post	10	10JUN23	19JUN23	-53d				7	
B3-5200	Vacation of Site Area	3	20JUN23	22JUN23	-53d				- 7	
	out Point and Viewing Platform Vorks at Lookout Point									
B4-1000	Demolition of Existing Wall	7	10MAY21 A	16MAY21 A						
B4-1100	Levelling of Existing Beach	14		31MAY21 A						
B4-1200	Mobilization of Piling Plant	4	07JUN21 A	10JUN21 A						
B4-1210	Installation of Pipe Piles (40 Nos.)	74		23AUG21 A						
B4-1220	Trimming of Pipe Piles for Wall Openings	7		16SEP21 A						
B4-1230	Infill Grouting of Pipe Piles	7		06NOV21 A						
B4-1280	Demobilization and Site Preparation	21		18DEC21 A						
B4-1290	Excavation and Placing of Concrete Blinding	24		20JAN22 A						
B4-1300	Casting of Skin Wall	37	28JAN22 A	05MAR22 A						
B4-1400	Laying of Concrete Paving	0	13MAR22 A	19MAR22 A						
Improvement V	Vorks at Viewing Platform									
B4-2000	Relocation of Existing Gabion Blocks	6		15SEP21 A						
B4-2010	Temporary Modification of Existing Drainage	29		15SEP21 A						
B4-2100	Mobilization of Piling Plant	7		22SEP21 A						
B4-2110	Installation of Pipe Piles (30 Nos.)	47		10DEC21 A						
B4-2120	Infill Grouting of Pipe Piles	6		16DEC21 A						
B4-2130	Demobilization and Site Preparation	10		26DEC21 A						
B4-2200	Excavation to Formation Level	20		07FEB22 A						
B4-2210	Placing of Levelling Stones	2		09FEB22 A						
B4-2219	Precasting of Seawall Blocks	35		25JAN22 A						
B4-2220	Installation of Seawall Blocks	2		11FEB22 A						
B4-2221	Precasting of Concrete Backing w/ Granite Facing	39		29JAN22 A						
B4-2230	Placing of Concrete Blinding	2		22FEB22 A						
B4-2240	Installation of Concrete Backing	2		22FEB22 A						
B4-2250	Cast in-situ Concrete Coping	8	01MAR22 A	U8MAR22 A			mbili	ulii.		

					Cor					st No. (Mun P			acility	/																		
Act ID	Description	Orig Dur	Early Start	Early Finish	Total Float	2020 DEC	JAN	FEB I	MAR	APR MA)21 JUL	AUG	SEP	ости	NON C	DEC J	AN FEE	3 MAI	R APR	MAY	022 JUL	AUG	SEP (DCT N	OV DE	EC JA	AN FEB	MAR		023 MAY JU	N JUL	. AUG SI
B4-2260	Installation of Geotextile Filter	2	22FEB22 A	23FEB22 A													-	1												8		
B4-2300	Backfilling behind Concrete Backing & Coping	13	24FEB22 A	12MAR22 A																												
B4-2400	Installation of Enhanced Seawall Panels	0	05JUN23 *	04JUN23	-350																											
B4-2500	Laying of Concrete Paving	0	13MAR22 A	13MAR22 A														н														
B4-2600	Vacation of Site Area	3	20MAR22 A	22MAR22 A																												
Completion and Sectional Com																																
C1-1000	Completion of Section 1 of the Works	0		28JUL23	-890																											1
C1-1010	Completion of Section 2 of the Works	0		22JUN23	-530																										†	
C1-1020	Completion of Section 3 of the Works	0		22MAR22 A														-														
Final Completi	ion																														, i i i	
C1-2000	Final Survey & Submission of As-built Records	28	01JUL23	28JUL23	-890																								i i E	+++++		
C1-2100	Handover of the Works to the Employer	0		28JUL23	-890																											<u> </u>
C1-2200	Completion of Whole of the Works	0		28JUL23	-890																										🖛	⊷

Start date 15DEC20		Early bar	Date	Revision		Approved
Must finish date 30APR23		Progress bar	28FEB23		ZYW	TSL
		Critical bar				
	CONSTRUCTION PROGRAMME	 Start milestone point 				
© Primavera Systems, Inc.		 Finish milestone point 				



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

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	Imple S ⁱ	ment tages		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	Imple Si	ment tages		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 / Mitigation Measures	Location / Timing	Implementation	Imple S [.]	menta tages		Relevant Legislation and
			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 Agent	Imple S	ment tages		Relevant Legislation and
	Mitigation Measures	•		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 ⁿ 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		V	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	J	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 Agent	-	ement Stages		Relevant Legislation and
	Mitigation Measures	3		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	Ū	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 / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and
				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		Relevant 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 /	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and
	Mitigation Measures			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	-	•• •		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 /	Location / Timing	Implementation	ⁿ Stages*	Implementation Stages*			Relevant Legislation and	
	Mitigation Measures	g	Agent	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 /	Location / Timing	Implementation	Implementation Stages*			Relevant Legislation and
	Mitigation Measures		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 /	Location / Timing	Implementation Agent	Imple St	ment tages		Relevant Legislation and Guidelines
	Mitigation Measures			Des	С	0	
	 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*			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		Imple St	menta tages		Relevant Legislation and
	Miligation Measures			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 Agent	Imple S ⁻	ment tages		Relevant Legislation and
	Mitigation Measures	Timing		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	

Table B.8 Implementation Schedule for Fisheries Mitigation Measures

EIA Ref.	Environmental Protection Measures /	Location / Timing		Implementation Stages*			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	Implementation Stages*			Relevant Legislation and	
	Mitigation Measures Agent	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	Implementation Stages*			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 / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*			Relevant Legislation and
		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



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Appendix CImpact Monitoring Schedule of this andnextReportingPeriod

		Cont	tract No. CV/2020/09 Lei Yue Mun Waterfront Enhancement P EM&A Monitoring Schedule	rroject						
Sep-23										
Sun	Mon	Tue	Wed	Thu	Fri	Sat				
					1	2				
						Impact Water Quality motioning for CL, G2, ML, M2, M3 & M4 <u>Halal Periodi</u> Bib Tales, 1049 - 1651 Food Tales, 0355 - 1049 Montoriani Ilmo: Male ebb-12.06 - 15:356 Male Hands 05:00 - 10:38 * 54				
3	4	5	6	7	8	9				
	Impact Dydrim Nole wondrong for NM1, NM2-A, NM3 & NM4	Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Periodi</u> Erbi Tide: 133 - 18:00 Flood Tide: 06:32 - 13:33 <u>Monitoring Time</u> Mid ebb: 1404 - 47:34 Mid-flood: 08:16 - 13:46		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Hail Period</u> . Ethi Tale: 02:25 : 09:33 Floot Tale: 09:33 - 23:59 <u>Monitoring Time</u> : Wid e.bb. 98:00: 09:11*5 Mid-flood: 15:01 - 18:31		Impact Water Quality monitoring for C, I, C2, M1, M2, M3 & M4 <u>Tidal Period</u> ; Ebb Tidle 0:029 12:255 Flood Tidle: 12:255 - 73:59 <u>Monitoring Time</u> ; Mid ebb: 08:00 10:27*5 Mid-flood: 16:42 - 19:00 \$&				
10	11	12	13	14	15	16				
		Impact Water Quelky monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Periodi</u> Ebb Tolic: 0716-14-33 Fload Tude: 14-33 - 21-27 <u>Monitoring Turing Times</u> Mid-ebb: 09:09-12-39 Mid-flood: 16:15-19:00\$&		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Total Period: ED Tote: 053-31-526 Floot The: 15.26 - 22:00 Minilary Ilime: Mid-ebb; 10:10-11349 Mid floot: 15-45 - 19:0058. Daytime Noise monitoring for NM1, MX2-4, NM3 & MM4		Impat Water Quality monitoring (For C1, C2, M1, M2, M3 & M4 <u>Tital Period</u> : Ebb Tide: 10:05 - 16:10 Flood Tide: 16:10 - 22:30 <u>Monitoring Time:</u> Mid-ebb; 11:122 - 14:52 Mid-flood: 16:29 - 19:005&				
17	18	19	20	21	22	23				
	Impact Dayline Nola wanalindring for NM1, NM2-A, NM3 & NM4	Impact Water Quality monitoring for CT, LC, ML, M2, M3 & M4 <u>Tidal Periodi</u> Ebb Tride: 1210-1715 Ficial Tide: 05:19-12:10 <u>Monitering Times</u> Mid-ebb: 1257-16:27 Mid-flood: 08:00-10:29*5		Impact Water Qualifymoritoring for C1, C2, M1, M2, M3 & M4 <u>Flaid Periodi</u> . Ebb Trids: 1432-1754 Flood Tria: 0659-14-12 <u>Minilaring: Time</u> Mid-ebb: 1408-1758 Mid-flood: 08:50-12:20		Impact Water Quality monitoring for Cr. 1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Trice 0:1323 - 10:04 Flood Tride: 10:04 - 23:39 <u>Monitoring: Time:</u> Mid-ebb: 08:00 - 09:38*5 Mid-flood: 15:16 - 18:46				
24	25	26	27	28	29	30				
		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Periodi</u> Ebb Tride: 05:10 - 13:32 Float Tude: 13:32 - 20:47 <u>Monitoring Time</u> Mid-ebb: 08:00 - 11:16*5 Mid-fload: 15:24 - 18:54	Impact Daytime Moise monitoring for NM1, NM2-A, NM3 & NM4	Impact Water Qualitymonitoring for C1, C2, M1, M2, M3 & M4 <u>Total Period</u> Ebb Trice (75:51-1436 Floot Trie: 1446-21:28 <u>Minitoring Time</u> Mid-ebb: 0928-12:58 Mid-flood: 16:17 - 19:00 55		Impact Water Quality minimizing for CT, CZ, ML, M2, M3 & M4 <u>Talial Periodi</u> Bib Tife: 0951-1538 Flood Tide: 1538-2222 <u>Montorina Times</u> Mid-ebb: 10:59-14:29 Mid-flood: 15:58-19:00 §&				

Remarks: Daytime Hoine Monitoring (07:00-1900) Monitoring Parameters: Dissolved oxygen, Temperature, pH, Turbidity, Salinity, Suspended Solids

Note: ^ - Monitoring cancelled due to indement weather. * - Due to safety concern of vessel transportation e atlier than 0800. Water Quality Monitoring would start at 0800. 5 - Since predicted tide is shorter than 3.5 Nours, method of 90% tidal period as monitoring time is adopted. 8 - Due to safety concern for sampling event in night-time, method of 90% tidal period as monitoring time is approached and end at 1900. ^ - Cancelled due to unforeseen obstatles

		Cor	atract No. CV/2020/09 Lei Yue Mun Waterfront Enhancement Project EM&A Monitoring Schedule		
			Oct-23		
Sun	Mon	Tue	Wed Thu	Fri	Sat
1	2	3	4 5	6	7
		Impact Water Quality mohisioning for C1, C2, CM1, M2, M3 & M4 <u>Tidal Periodi</u> Ebb Tide 1: 2227 - 16:53 Fiload Tider 05:29 - 12:27 Midel Tider 05:29 - 12:27 Midel deb: 12:55 - 16:29 Midel deb: 12:55 - 16:29 Midel deb: 12:55 - 16:29 Midel Model: 00:00 - 10:475 Daytime Noise monitoring for NM1, MV42 - NM3 & NM4	Water Qual	Impat Impat Infel Period: Ebb Tel: 5500-17-00 Flood Tel: 0735 - 15:00 Monitorin Time: Mid ebb : 4:15 - 17:45 Mid-flood: 09:32 - 13:02	Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 High-Tained File File File File File Maintering Mild Robit 06:00 - 10.35*5 Mild Robit 5:45 - 19:00 %&
8	9	10	11 12	13	14
		Impact Water Qualitymohicing for CL, CZ, ML, MZ, M3 & M4 <u>Tidal Period</u> : Ebb Träter, 05564, 32:19 Flood Tider, 13:19 – 20:44 <u>Montoning Time</u> ; Mid-@bb, 08:00 – 11:21 * 5 Mid-flood: 15:16 – 18:46	Water Gual	Impat Impat Insenioring (cc), Cc), MI, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tele (cr) A24 - 14-14 Flood Tide: 14-14 - 20-51 <u>Monetoring Time:</u> Mid-Biolog 33 - 12-43 Mid-Biold: 15-47 - 19:00 \$&	Impact Water Quality monitoring for CL, C2, M1, M2, M3 & M4 Tital Period: Ebb Tider (09:15-14:36) Flood Tide: 14:56 - 21:16 Monitoring Time: Mide-fbot (12:02 - 13:30 Mide-fbot 15:15 - 18:45 Daytime Noise monitoring for NM1, NM2 A, NM3 & M4
15	16	17	18 19	20	21
		Impart Water Quality moleconing for CL, CZ, ML, MZ, M3 & M4 <u>Tidal Period</u> : Ebb Tida: 1125-1601 Flood Tida: 01425-1125 <u>Monitoring Time</u> , Mid ebb 1128-1528 Mid-Flood: 08:00-11:04*\$	Water Qual	lity monitoring for C1, C2, M1, M2, M3 & M4 Daytime No	masci Impaci Impaci Impaci Water Quality monitoring for L, C2, M1, M2, M3 & M4 Water Quality monitoring for L, C2, M1, M2, M3 & M4 Water Quality monitoring / Time Food Take: 08,102 - 23-55 Monitoring Time; Mid-Bood: 14:20 - 17:50
22	23	24	25 26	27	28
		Impact Water Qualitymoliconing for CL, CZ, ML, MZ, M3 & M4 <u>Tidal Period</u> Ebb Tide: 0415 - 12:06 Fiload Tide: 12:06 - 19:39 <u>Monitorian Time</u> Mid-ebb: 08:00 - 09:55*5 Mid-ficod: 14:07 - 17:37		Impat Impat Infall Period: Dbh Tele: 06:46:10.17 Filod Tele: 13.17 - 20.17 Montpring Time: Mid: effod: 15.02 - 18.32 Mid: filod: 15.02 - 18.32 Mid: filod: 15.02 - 18.32	Impact Water Quality monitoring for CL, C2, ML, M2, M3 & M4 <u>Hidal Veriodi</u> Eth Tide: 08:54-14:22 Flood Tide:: 14.32-21:08 Monitourise Illine: Mid-white: 09:53-13:23 Mid-flood: 14:42-18:12
29	30	31			
		Impact Water Quality monitoring for CL, CZ, ML, MZ, M3 & MA <u>Tidal Period;</u> Ebb Tride: 11.35 - 1540 Flood Tride: 0.434 - 11.35 <u>Monitoring Time;</u> Mid ebb: 11.52 - 154.22 Mid-flood: 08:00 - 11:13*5			

Remarks: Daytime Noise Monitoring (07:00-1900) Monitoring Parameters: Dissolved oxygen, Temperature, pH, Turbidity, Salinity, Suspended Solids

Note: ^ - Moning cancelled due to indement weather. * - Due to safety concern of vessel transportation earlier than 0800, Water Quality Monitoring would start at 0800. § - Since predicted tide is shorter than 3.5 hours, method of 90% tidal period as monitoring time is adopted. & - Due to safety concern for sampling event in night time, method of 90% tidal period as monitoring time is approached and end at 1900. ^ - Cancelled due to unforeseen obstacles



aurecon

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



	ACTION						
EVENT	ET	ET IEC		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

for

Description:	Sound Level Meter				
Manufacturer:	Scarlet Tech				
Type No.:	ST11D (Serial No.: 820242)				
Microphone:	AWA14425 (Serial No.: 45053)				

Submitted by:

Customer:	Acuity Sustainability Consulting Limited
Address:	Unit E, 12/F., Ford Glory Plaza,
	Nos. 37-39 Wing Hong Street,
	Cheung Sha Wan, Kowloon, Hong Kong

Upon receipt for calibration, the instrument was found to be:

✓ Within (31.5Hz – 4kHz)□ Outside

the allowable tolerance.

Calibrated by:_

The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 08 November 2022

Date of calibration: 09 November 2022

Date of NEXT calibration: 08 November 2023

1 Calibration Technician

____ Certified by:

Mr. Ng Yan Wa Laboratory Manager

ALIAN TESTING LABORING

Page 1 of 3

Certificate No.: APJ22-095-CC001

Date of issue: 09 November 2022

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong Tel: (852) 2668 3423 Fax:(852) 2668 6946 Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com



1. Calibration Precaution:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Conditions:

Air Temperature:	24.4 °C
Air Pressure:	1006 hPa
Relative Humidity:	65.2 %

3. Calibration Equipment:

	Туре	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Setting of Unit-under-test (UUT)		Applied value		UUT Reading,	IEC 61672 Class 1		
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
43-138	dBA	SPL	Fast	94	1000	94.0	±0.4

Linearity

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		94.0	Ref
43-138	dBA	SPL	Fast	104	1000	104.0	±0.3
				114		114.0	±0.3



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Certificate No.: APJ22-095-CC001



Frequency Response

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	55.3	-39.4±2.0
			63	68.6	-26.2±1.5		
			125	77.8	-16.1±1.5		
43-138	dBA	SPL	D	94	250	85.3	-8.6±1.4
45-150	UDA	SPL	Fast	94	500	90.7	-3.2 ± 1.4
					1000	94.0	Ref
					2000	94.9	+1.2±1.6
					4000	93.9	$+1.0\pm1.6$

5. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.05
	63 Hz	± 0.05
	125 Hz	± 0.05
	250 Hz	\pm 0.05
	500 Hz	± 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.10
	4000 Hz	± 0.10
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

Note:

The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow for the equipment long-term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the calibration. (A+A)*L shall not be liable for any loss or damage resulting from the use of the equipment.

Certificate No.: APJ22-095-CC001



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Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong Tel: (852) 2668 3423 Fax:(852) 2668 6946 Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

Certificate of Calibration

for

Description:	Sound Level Meter
Manufacturer:	RION
Type No.:	NL-52 (Serial No.: 01010877)
Microphone:	UC-59 (Serial No.: 20521)
Preamplifier:	NH-25 (Serial No.: 11525)

Submitted by:

Customer: Acuity Sustainability Consulting Limited Address: Unit E, 12/F, Ford Glory Plaza, Nos. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

Upon receipt for calibration, the instrument was found to be:

Within (31.5Hz – 2kHz) **Outside**

the allowable tolerance.

(A+A)*L

The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 16 March 2023

Date of calibration: 21 March 2023

Date of NEXT calibration: 20 March 2024

Calibrated by: Calibration Technician

Date of issue: 21 March 2023

Certificate No.: APJ22-158-CC001

Certified by: Mr. Ng Yan Wa Laboratory Manager

Page 1 of 4

Room 422, Leader Industrial Centre, 57-59 Au Pui Wan Street, Fo Tan, Shatin, N.T., Hong Kong Fax:(852) 2668 6946 Tel: (852) 2668 3423 Homepage: http://www.aa-lab.com E-mail: inquiry@aa-lab.com

(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

1. Calibration Precaution:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Conditions:

Air Temperature:	22.0 °C
Air Pressure:	1004 hPa
Relative Humidity:	62.4 %

3. Calibration Equipment:

	Туре	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Setting of Unit-under-test (UUT)			App	lied value	UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. We	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	Fast	94	1000	93.9	±0.4

Linearity

Setting of Unit-under-test (UUT)				Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. V	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		93.9	Ref
30-130	dBA	SPL	Fast	104	1000	103.9	±0.3
				114		113.9	±0.3

Time Weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	Fast	94	1000	93.9	Ref
30-130	UDA	SPL	Slow	94	1000	93.9	±0.3

Certificate No.: APJ22-158-CC001



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(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

Frequency Response

Linear Response

Setting of Unit-under-test (UUT)				Appl	Applied value		IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	94.0	±2.0
					63	94.1	±1.5
					125	94.1	±1.5
30-130	dB	dB SPL	Fast	94	250	94.1	±1.4
					500	94.0	±1.4
					1000	93.9	Ref
					2000	93.3	±1.6

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	54.5	-39.4 ±2.0
					63	67.9	-26.2±1.5
					125	78.0	-16.1±1.5
30-130	dBA	A SPL Fast	94	250	85.5	-8.6±1.4	
					500	90.8	-3.2 ± 1.4
				1000	93.9	Ref	
					2000	94.6	$+1.2\pm1.6$

C-weighting

Setting of Unit-under-test (UUT)				Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	91.0	-3.0 ±2.0
					63	93.3	-0.8±1.5
					125	93.9	-0.2 ± 1.5
30-130	dBC	SPL	Fast	94	250	94.1	-0.0 ± 1.4
					500	94.0	-0.0 ± 1.4
					1000	93.9	Ref
					2000	93.2	-0.2 ± 1.6



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Certificate No.: APJ22-158-CC001

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(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

5. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.10
	63 Hz	± 0.10
	125 Hz	± 0.10
	250 Hz	± 0.10
	500 Hz	± 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.05
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

Note:

The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow for the equipment long-term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the calibration. (A+A)*L shall not be liable for any loss or damage resulting from the use of the equipment.



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Certificate No.: APJ22-158-CC001

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Certificate No. D224644E



CALIBRATION CERTIFICATE

Product	:	SOUND CALIBRATOR
Туре	:	NC-75
Serial number	:	35124527
Manufacturer	:	RION CO., LTD.
Calibration quantities	:	Sound pressure level (with reference standard microphone)
Calibration method	:	Measured by specified secondary standard microphone
		according to JCSS calibration procedure specified by RION.
Ambient conditions	:	Temperature 23.9 °C, Relative humidity 49 %,
		Static pressure 100.6 kPa
Calibration date	:	02/11/2022 (DD/MM/YYYY)
Calibration location	:	3-20-41 Higashimotomachi, Kokubunji, Tokyo 185-8533, Japan
		RION CO., LTD. Calibration Room

We hereby certify that the results of this calibration were as follows.

Issue date : 09/11/2022 (DD/MM/YYYY)

Junichi Kawamura Manager Quality Assurance Section, Quality Assurance Department, Environmental Instrument Division, RION CO., LTD. 3·20·41 Higashimotomachi, Kokubunji, Tokyo 185·8533, Japan

This certificate is based on article 144 of the Measurement Law and indicates the result of calibration in accordance with measurement standards traceable to Primary Measurement Standards (National Standards) which realizes the physical units of measurement according to the International System of Units (SI).

The accreditation symbol is attestation of which the result of calibration is traceable to Primary Measurement Standards (National Standards).

The certificate shall not be reproduced except in full, without the written approval of the issuing laboratory.

The calibration laboratory who issued this calibration certificate conforms to ISO/IEC 17025:2017.

This calibration certificate was issued by the calibration laboratory accredited by IAJapan who is a signatory to the Mutual Recognition Arrangement (MRA) of International Laboratory Accreditation Cooperation (ILAC) and Asia Pacific Accreditation Cooperation (APAC). This (These) calibration result(s) may be accepted internationally through ILAC/APAC MRA.



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Certificate No. D224644E

CALIBRATION RESULT

1. Sound pressure level (with reference standard microphone)

Measured	Expanded	
value	uncertainty *1	
93.99 dB	0.09 dB	

Specified secondary standard microphone: Type : 4160 Serial number : 2973341 Reference Sound pressure : $2 \times 10^{.5}$ Pa

*1 Defines an interval estimated to have a level of confidence of approximately 95 %. Coverage factor k=2

Calibration result is the calibration value in ambient conditions during calibration.

BE OUT OF JCSS CALIBRATION

1. Frequency

Measured value	Measuremen uncertainty (<i>k</i> =2)
1000.0 Hz	$2.7 imes10^{\cdot4}\mathrm{Hz}$

Working measurement standard universal counter: Type : 53132A Serial number : MY40005574

(JCSS Calibration Certificate No. 2208001889940)

2. Total distortion

Measured	
value	
0.2 %	

Working measurement standard distortion meter: Type : VA-2230A Serial number : 11076061 (A2LA Calibration Certificate No. 1502-03109)

· closing ·



Page 1 of 2

Certificate No. D224645E



CALIBRATION CERTIFICATE

Product	:	SOUND CALIBRATOR
Type	:	NC-75
Serial number	:	35124528
Manufacturer	:	RION CO., LTD.
Calibration quantities	:	Sound pressure level (with reference standard microphone)
Calibration method	:	Measured by specified secondary standard microphone
		according to JCSS calibration procedure specified by RION.
Ambient conditions	:	Temperature 23.9 °C, Relative humidity 49 %,
		Static pressure 100.6 kPa
Calibration date	:	02/11/2022 (DD/MM/YYYY)
Calibration location	:	3·20·41 Higashimotomachi, Kokubunji, Tokyo 185·8533, Japan
		RION CO., LTD. Calibration Room

We hereby certify that the results of this calibration were as follows.

Issue date : 09/11/2022 (DD/MM/YYYY)



Junichi Kawamura Manager Quality Assurance Section, Quality Assurance Department, Environmental Instrument Division, RION CO., LTD. 3-20-41 Higashimotomachi, Kokubunji, Tokyo 185-8533, Japan

This certificate is based on article 144 of the Measurement Law and indicates the result of calibration in accordance with measurement standards traceable to Primary Measurement Standards (National Standards) which realizes the physical units of measurement according to the International System of Units (SI).

The accreditation symbol is attestation of which the result of calibration is traceable to Primary Measurement Standards (National Standards).

The certificate shall not be reproduced except in full, without the written approval of the issuing laboratory. The calibration laboratory who issued this calibration certificate conforms to ISO/IEC 17025:2017.

This calibration certificate was issued by the calibration laboratory accredited by IAJapan who is a signatory to the Mutual Recognition Arrangement (MRA) of International Laboratory Accreditation Cooperation (ILAC) and Asia Pacific Accreditation Cooperation (APAC). This (These) calibration result(s) may be accepted internationally through ILAC/APAC MRA.



Page 2 of 2

Certificate No. D224645E

CALIBRATION RESULT

1. Sound pressure level (with reference standard microphone)

Measured	Expanded
value	uncertainty *1
93.99 dB	0.09 dB

Specified secondary standard microphone: Type : 4160 Serial number : 2973341 Reference Sound pressure : 2×10^{-5} Pa

*1 Defines an interval estimated to have a level of confidence of approximately 95 %. Coverage factor k=2

Calibration result is the calibration value in ambient conditions during calibration.

BE OUT OF JCSS CALIBRATION

1. Frequency

Measured value	Measurement uncertainty (k=2)
1000.0 Hz	$2.7 imes 10^{\cdot 4} \mathrm{Hz}$

Working measurement standard universal counter: Type : 53132A Serial number : MY40005574

(JCSS Calibration Certificate No. 2208001889940)

2. Total distortion

Measured	
value	
0.2 %	

Working measurement standard distortion meter: Type : VA·2230A Serial number : 11076061 (A2LA Calibration Certificate No. 1502.03109)

- closing -

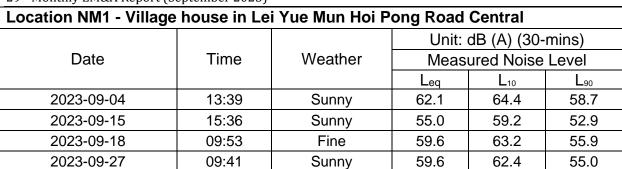




<u>Appendix F</u> <u>Noise Monitoring Results</u>



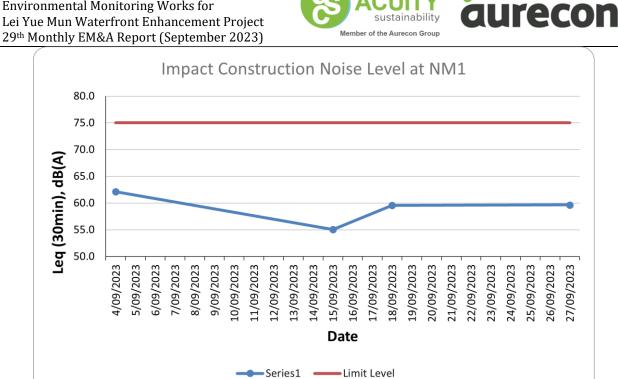
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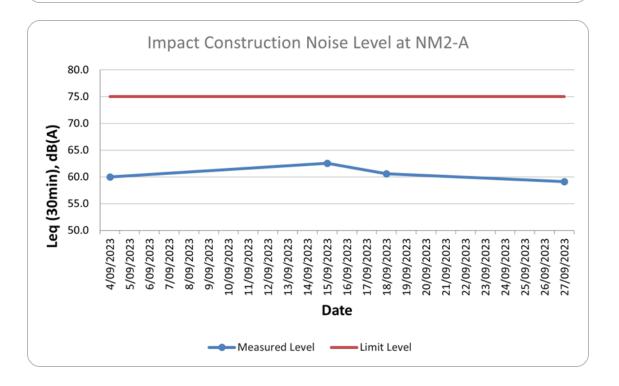


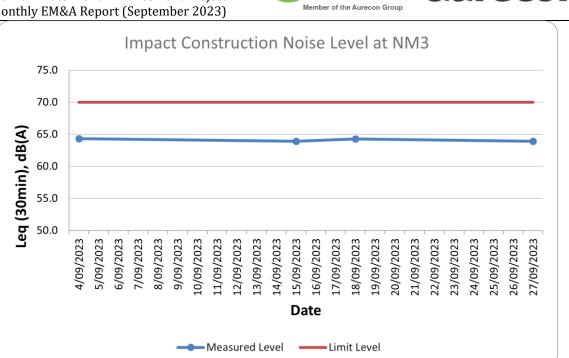
Location NM2A - No.79B, Lei Yue Mun Hoi Pong Road East							
	Unit: dB (A) (30-mins)						
Date	Time	Weather	Meas	Measured Noise Level			
			L _{eq}	L ₁₀	L ₉₀		
2023-09-04	14:51	Sunny	60.0	62.0	57.7		
2023-09-15	16:10	Sunny	62.6	65.2	51.6		
2023-09-18	11:03	Fine	60.6	63.9	57.2		
2023-09-27	10:15	Sunny	59.1	59.9	57.5		

Location NM3 - Jockey Club Lei Yue Mun Plus							
			Unit:	Unit: dB (A) (30-mins)			
Date	Time	Weather	Meas	easured Noise Level			
			Leq	L ₁₀	L ₉₀		
2023-09-04	13:04	Sunny	64.3	66.7	61.6		
2023-09-15	16:46	Sunny	63.9	66.3	57.6		
2023-09-18	09:18	Fine	64.3	66.9	60.9		
2023-09-27	09:07	Sunny	63.9	66.0	59.4		

Location NM4 - No. 21C, Lei Yue Mun Hoi Pong Road East							
			Unit:	Unit: dB (A) (30-mins)			
Date	Time	Weather	Measured Noise Lev		Level		
			L _{eq}	L ₁₀	L ₉₀		
2023-09-04	14:16	Sunny	70.1	73.3	65.7		
2023-09-15	17:21	Sunny	63.1	66.4	54.4		
2023-09-18	10:29	Fine	60.3	62.8	57.8		
2023-09-27	10:49	Sunny	55.3	57.5	54.2		

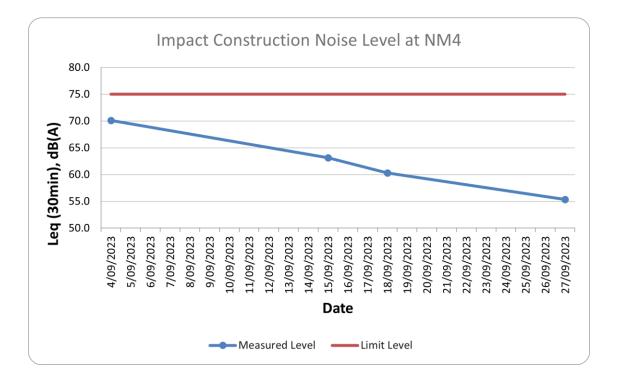






sustainability

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



sustainability

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		AC	CTION						
EVENI	ET	IEC	ER	CONTRACTOR					
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; Inform IEC, Contractor and EPD; Check monitoring data, all plants, equipment and Contractor's working methods; Discuss mitigation measures 	 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 	 Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation 	 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, IEC and ER and Propose mitigation measures to IEC and ER within 3 working 					
	 with IEC, ER and Contractor; 6. Ensure mitigation measures are implemented; 7. Increase the monitoring frequency to daily until no exceedance of Limit level. 8. (The above actions should be taken within 1 working day after the exceedance is identified) 	taken within 1 working day after the exceedance is identified)	 measures. 5. (The above actions should be taken within 1 working day after the exceedance is identified) 	days; 6. Implement the agreed mitigation measures					
Limit level being	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	 confirm findings; 2. Identify reasons for non-compliance and source(s) of impact; 3. Inform IEC, Contractor and EPD; 4. Check monitoring data, all plants, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC, ER and Contractor; 6. Ensure mitigation measures are implemented; 7. Increase the monitoring frequency to daily until no exceedance of Limit level for 2 consecutive days. 8. (The above actions should be taken within 1 working day after the exceedance is identified) 	 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) 	 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) 	 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>



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.	: R-BC070089
Date of Issue	: 31 July 2023
Page No.	: 1 of 2

PART A - CUSTOMER INFORMATION

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

PART B - SAMPLE INFORMATION

Name of Equipment :	YSI ProDSS (Multi-Parameters)
Manufacturer :	YSI (a xylem brand)
Serial Number :	S/N: 22C106561
Date of Received :	26 July 2023
Date of Calibration :	26 July 2023
Date of Next Calibration :	25 October 2023
Request No. :	D-BC070089

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter	Reference Method
pH value	APHA 21e 4500-H ⁺ B
Temperature	Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March
	2008: Working Thermometer Calibration Procedure
Salinity	APHA 21e 2520 B
Dissolved oxygen	APHA 23e 4500-O G (Membrane Electrode Method)
Turbidity	APHA 21e 2130 B (Nephelometric Method)

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result	
4.00	4.08	0.08	Satisfactory	
7.42	7.36	-0.06	Satisfactory	
10.01	10.09	0.08	Satisfactory	

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

(2) Temperature

Reading of Ref. thermometer (°C)	ading of Ref. thermometer (°C) Display Reading (°C)				
14	14.8	0.8	Satisfactory		
25	25.1	0.1	Satisfactory		
36	36.3	0.3	Satisfactory		

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

(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result	
10	10.02	0.20	Satisfactory	
20	20.63	3.15	Satisfactory	
30	31.61	5.37	Satisfactory	

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

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AUTHORIZED SIGNATORY:

LEE Chun-ning

Assistant Manager

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.	: R-BC070089
Date of Issue	: 31 July 2023
Page No.	:2 of 2

(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result	
7.38	7.42	0.04	Satisfactory	
6.30	6.38	0.08	Satisfactory	
4.90	4.83	-0.07	Satisfactory	
1.00	1.03	0.03	Satisfactory	

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

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	0.10		Satisfactory
10	9.88	-1.20	Satisfactory
20	21.25	6.30	Satisfactory
100	102.97	3.00	Satisfactory
800	787.11	-1.60	Satisfactory

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

Remark(s)

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

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

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

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

--- END OF REPORT ----



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



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		ту шиг	ал керо		ptembe		<i>'</i>)	1	r							
Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (?)	Turbidty (NTU)	SS	Current Velocity (m/s)	Current Direction	Remark
C1	20230905		Moderate	Mid-Flood	Surface	1	9:14			32.33	28.06	2.64	2.5	0.300	SE	/
C1 C1	20230905 20230905	Cloudy Cloudy	Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	10.65	9:14 9:13	8.89	8.32 8.33	32.57 32.54	28.12 28.15	2.70	2.5	0.266	5E E	/
C1	20230905	Cloudy	Moderate	Mid-Flood	Middle	10.65	9:13	8.88	8.27	32.57	28.10	2.64	2.5	0.264	E	/
C1			Moderate	Mid-Flood	Bottom	20.3	9:12		8.30	32.37	28.03	2.53	2.5	0.282	E	/
C1 C2	20230905	Cloudy Cloudy	Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	20.3	9:12 8:18		8.31 8.21	32.51 32.71	28.05	2.64	2.5	0.306	SE	/
C2	20230905	Cloudy	Moderate	Mid-Flood	Surface	1	8:18		8.19	32.96	27.88	2.96	2.5	0.293	E	/
C2	20230905	Cloudy	Moderate	Mid-Flood	Middle	11.2	8:17		8.21	32.67	27.99	2.92	2.5	0.276	E	/
C2 C2	20230905	Cloudy Cloudy	Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	11.2 21.4	8:17 8:16		8.17 8.21	32.74 32.75	27.98	3.13	2.5	0.273	SE	/
C2 C2	20230905	Cloudy	Moderate	Mid-Flood	Bottom	21.4	8:16		8.18	32.73	27.91	2.87	3	0.293	SE	/
M1	20230905		Moderate	Mid-Flood	Surface	1	8:42	8.39	8.30	33.04	27.97	1.86	3	0.264	E	/
M1	20230905	Cloudy	Moderate	Mid-Flood	Surface	1	8:42		8.32	33.30	27.95	2.21	2.5	0.298	E	/
M1 M1	20230905 20230905	Cloudy Cloudy	Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	3.35	8:41 8:41	8.33	8.29 8.27	33.03 33.00	27.97 27.89	1.87	2.5	0.290	SE	/
M1	20230905	Cloudy	Moderate	Mid-Flood	Bottom	5.7	8:40		8.29	33.03	27.93	2.03	3	0.296	SE	/
M1	20230905	Cloudy	Moderate	Mid-Flood	Bottom	5.7	8:40		8.32	33.34	27.85	2.15	3	0.286	SE	/
M2 M2	20230905 20230905	Cloudy Cloudy	Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	8:56 8:56		8.32 8.31	32.62 32.64	27.97 28.10	2.20	2.5	0.294	SE	/
M2	20230905	Cloudy	Moderate	Mid-Flood	Middle	6.2	8:55	8.82	8.30	32.85	28.05	2.24	2.5	0.271	E	/
M2	20230905	Cloudy	Moderate	Mid-Flood	Middle	6.2	8:55	8.89	8.33	32.65	27.99	2.36	2.5	0.300	E	/
M2	20230905	Cloudy	Moderate	Mid-Flood	Bottom	11.4	8:54	8.91	8.32	32.70	27.99	2.17	3	0.281	SE	/
M2 M3	20230905 20230905	Cloudy Cloudy	Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	11.4	8:54 8:31	8.77	8.27 8.28	32.83 32.65	28.03 28.15	2.27	2.5	0.309	SE	/
M3	20230905	Cloudy	Moderate	Mid-Flood	Surface	1	8:31		8.29	32.45	28.06	2.24	3	0.276	SE	/
M3	20230905	Cloudy	Moderate	Mid-Flood	Middle	3.4	8:30	8.86	8.31	32.53	28.16	1.81	2.5	0.264	E	/
M3	20230905		Moderate	Mid-Flood	Middle	3.4 5.8	8:30		8.29	32.58	28.09	1.88	2.5	0.277	E	/
M3 M3	20230905 20230905	Cloudy Cloudy	Moderate Moderate	Mid-Flood Mid-Flood	Bottom Bottom	5.8	8:29		8.30 8.25	32.53 32.35	28.13 28.02	1.89	2.5	0.302	E	/
M4	20230905	Cloudy	Moderate	Mid-Flood	Surface	1	9:34	9.06	8.29	31.79	28.05	1.99	2.5	0.299	E	/
M4	20230905	Cloudy	Moderate	Mid-Flood	Surface	1	9:34		8.29	31.63	28.19	2.10	2.5	0.302	SE	/
M4 M4	20230905 20230905	Cloudy Cloudy	Moderate Moderate	Mid-Flood Mid-Flood	Bottom Bottom	4.2	9:33 9:33		8.32 8.32	31.67 31.84	28.11 28.14	2.13	2.5	0.269	E SE	/
C1	20230903		Moderate	Mid-Flood	Surface	4.2	9.55			32.95	28.14	2.30	2.5	0.278	SE	/
C1	20230907	Sunny	Moderate	Mid-Flood	Surface	1	16:12	8.31	8.15	32.90	28.31	2.66	2.5	0.306	SE	/
C1	20230907	Sunny	Moderate	Mid-Flood	Middle	9.55	16:11	8.31	8.18	32.72	28.32	2.92	3	0.263	E	/
C1 C1	20230907 20230907	Sunny Sunny	Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	9.55 18.1	16:11 16:10	8.17	8.21 8.15	32.79 33.05	28.31 28.28	2.85	2.5	0.302	SE	/
C1	20230907	Sunny	Moderate	Mid-Flood	Bottom	18.1	16:10		8.20	33.13	28.29	2.81	2.5	0.298	SE	/
C2	20230907	Sunny	Moderate	Mid-Flood	Surface	1	15:03	8.65	8.17	33.29	28.21	3.03	2.5	0.287	SE	/
C2 C2	20230907 20230907	Sunny Sunny	Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	1 12.65	15:03 15:02		8.19 8.14	33.00 33.13	28.21 28.28	3.19	2.5	0.309	SE F	/
C2		Sunny	Moderate	Mid-Flood	Middle	12.65	15:02			33.29	28.22	3.21	2.5	0.274	E	/
C2	20230907	Sunny	Moderate	Mid-Flood	Bottom	24.3	15:01	8.42	8.15	33.00	28.22	3.14	2.5	0.300	SE	/
C2	20230907	Sunny	Moderate	Mid-Flood	Bottom	24.3	15:01		8.17	33.09	28.21 28.27	3.23	2.5	0.290	SE	/
M1 M1	20230907 20230907	Sunny Sunny	Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	15:38 15:38	9.14	8.32	32.35 32.45	28.27	2.23	2.5	0.285	SE	/
M1	20230907	Sunny	Moderate	Mid-Flood	Middle	3.6	15:37		8.27	32.14	28.27	2.08	2.5	0.285	SE	/
M1	20230907		Moderate	Mid-Flood	Middle	3.6	15:37		8.29	32.41	28.26	2.14	2.5	0.282	SE	/
M1 M1	20230907 20230907	Sunny Sunny	Moderate Moderate	Mid-Flood Mid-Flood	Bottom Bottom	6.2	15:36 15:36	8.97	8.30 8.26	32.22	28.26	2.05	2.5	0.301	E	/
M2	20230907	Sunny	Moderate	Mid-Flood	Surface	1	15:50	8.33	8.25	32.76	28.34	2.53	2.5	0.250	SE	/
M2	20230907	Sunny	Moderate	Mid-Flood	Surface	1	15:50	8.48	8.21	32.66	28.26	2.55	2.5	0.292	SE	/
M2 M2	20230907 20230907	Sunny Sunny	Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	7	15:49 15:49	8.42	8.19 8.23	32.98 32.90	28.30 28.31	2.40	7	0.308	SE	/
M2	20230907		Moderate	Mid-Flood	Bottom	13	15:49			32.90	28.36	2.45	3	0.311	SE	/
M2	20230907	Sunny	Moderate	Mid-Flood	Bottom	13	15:48	8.36	8.19	32.88	28.30	2.57	2.5	0.297	E	/
M3		Sunny	Moderate	Mid-Flood	Surface	1	15:21			32.79	28.20	1.86	2.5	0.292	SE	/
M3 M3	20230907 20230907	Sunny Sunny	Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	3.65	15:21 15:20	8.20	8.22 8.16	32.68 32.71	28.28 28.27	2.01	2.5	0.273	F	/
M3	20230907	Sunny	Moderate	Mid-Flood	Middle	3.65	15:20	8.29	8.22	32.62	28.25	2.05	2.5	0.306	E	/
M3	20230907	Sunny	Moderate	Mid-Flood	Bottom	6.3	15:19	8.41	8.19	32.68	28.26	2.00	2.5	0.285	E	/
M3 M4	20230907 20230907	Sunny Sunny	Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	6.3	15:19 16:35	8.23	8.15 8.29	33.01 32.57	28.26 28.30	2.16	2.5	0.300	E SF	/
M4	20230907	Sunny	Moderate	Mid-Flood	Surface	1	16:35	9.15	8.34	32.68	28.30	1.81	2.5	0.281		/
M4	20230907	Sunny	Moderate	Mid-Flood	Bottom	4.5	16:34	9.26	8.28	32.90	28.32	1.84	2.5	0.295	E	/
M4	20230907	Sunny	Moderate	Mid-Flood	Bottom	4.5	16:34	9.25	8.33	32.94	28.30	2.05	2.5	0.304	E	/
C1 C1	20230909 20230909	Cloudy Cloudy	Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	17:38 17:38	8.42	8.26	32.51 32.53	27.46	2.84	2.5	0.299	SE	/
C1	20230909	Cloudy	Moderate	Mid-Flood	Middle	10.1	17:37	8.33	8.27	32.46	27.44	2.83	2.5	0.273	SE	/
C1	20230909		Moderate	Mid-Flood	Middle	10.1	17:37		8.20	32.59	27.42	2.77	2.5	0.276	E	/
C1 C1	20230909 20230909	Cloudy Cloudy	Moderate Moderate	Mid-Flood Mid-Flood	Bottom Bottom	19.2 19.2	17:36 17:36	8.36	8.28	32.64 32.35	27.36	2.69	2.5	0.293	SE	/
C2	20230909	Cloudy	Moderate	Mid-Flood	Surface	15.2	16:44	9.47	8.25	33.43	27.31	3.08	3	0.278	E	/
C2	20230909		Moderate	Mid-Flood	Surface	1	16:44	9.50	8.22	33.66	27.36	2.99	2.5	0.281	E	/
C2	20230909 20230909		Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	10.85 10.85	16:43 16:43		8.23	33.65 33.51	27.27 27.30	3.18	2.5	0.275	E SF	/
C2 C2	20230909		Moderate	Mid-Flood	Bottom	20.7			8.23	33.47	27.30	2.98	2.5		E	/
C2	20230909	Cloudy	Moderate	Mid-Flood	Bottom	20.7	16:42	9.40	8.22	33.44	27.26	2.94	2.5	0.296	SE	/
M1	20230909		Moderate			1	17:07			32.43	27.63	1.82	2.5	0.305	SE E	/
M1 M1	20230909 20230909	Cloudy Cloudy	Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	3.65	17:07 17:06	8.29	8.21 8.19	32.52 32.52	27.60 27.56	1.88	2.5	0.304	E	/
M1	20230909	Cloudy	Moderate	Mid-Flood	Middle	3.65	17:06	8.42	8.23	32.54	27.55	2.00	2.5	0.285	SE	/
M1	20230909	Cloudy	Moderate	Mid-Flood	Bottom	6.3	17:05	8.42	8.22		27.64	2.04	2.5	0.307	E	/
M1 M2	20230909 20230909		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	6.3	17:05 17:22	8.46	8.22	32.53 32.21	27.61 27.51	2.07	2.5	0.295	E SF	/
M2	20230909	Cloudy	Moderate	Mid-Flood	Surface	1					27.51	1.79		0.309		/
M2	20230909	Cloudy	Moderate	Mid-Flood	Middle	6.6	17:21			32.27	27.59	1.69	2.5	0.273	SE	/
M2	20230909		Moderate	Mid-Flood		6.6	17:21		8.31	32.17	27.55	1.94	2.5		E	/
M2 M2	20230909 20230909		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Bottom	12.2	17:20		8.33 8.36	32.27 32.30	27.56	1.67	2.5	0.288		/
M3	20230909		Moderate	Mid-Flood	Surface	12.2	16:55		8.22	32.02	27.60	2.11	2.5	0.290		/
	20230909	Cloudy	Moderate	Mid-Flood	Surface	1	16:55	8.73	8.23	31.99	27.53	2.15	2.5	0.270	E	/
M3	1 20230909	Cloudy	Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	3.95	16:54 16:54	8.57	8.20	32.17 32.04	27.57 27.52	2.12	2.5	0.297		/
M3	20230000			1111U-FI000	Invituale	3.95					27.52	2.20	3	0.311	F	/
	20230909 20230909	Cloudy Cloudy	Moderate	Mid-Flood	Bottom	6.9	16:53	8.75	8.26	31.97						
M3 M3 M3 M3	20230909 20230909 20230909	Cloudy Cloudy	Moderate	Mid-Flood Mid-Flood	Bottom	6.9	16:53	8.74	8.27	32.14	27.57	2.37	2.5	0.280		/
M3 M3 M3 M3 M4	20230909 20230909 20230909 20230909	Cloudy Cloudy Cloudy	Moderate Moderate	Mid-Flood Mid-Flood Mid-Flood	Bottom Surface	6.9 1	16:53 18:00	8.74 8.50	8.27 8.21	32.14 32.53	27.57 27.41	2.37	2.5	0.280	E	/
M3 M3 M3 M3	20230909 20230909 20230909	Cloudy Cloudy Cloudy Cloudy	Moderate	Mid-Flood Mid-Flood	Bottom Surface Surface	6.9	16:53 18:00 18:00	8.74	8.27 8.21 8.22	32.14 32.53 32.58	27.57	2.37	2.5	0.280 0.271 0.309	E SE	/ / /



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C1	20230912			Mid-Flood Mid-Flood		1	17:30	9.10 8.18	33.22	27.66	2.66	3	0.302	SE /
C1		Cloudy	Moderate		Surface	10.65	17:30 17:29	9.14 8.21 9.17 8.22	33.26 33.22	27.65	2.71	2.5	0.308	E /
C1	20230912		Moderate	Mid-Flood	Middle	10.65						4		SE /
C1		Cloudy	Moderate	Mid-Flood	Middle	10.65	17:29	9.13 8.19	33.35	27.62	2.76	3	0.304	SE /
C1		Cloudy	Moderate	Mid-Flood	Bottom	20.3	17:28	9.13 8.24	33.42	27.56	2.68	3	0.268	E /
C1		Cloudy	Moderate	Mid-Flood	Bottom	20.3	17:28	9.16 8.19	33.39	27.68	2.77	3	0.305	SE /
C2		Cloudy	Moderate	Mid-Flood	Surface	1	16:17	9.01 8.19	33.08	27.45		2.5	0.292	SE /
C2	20230912	Cloudy	Moderate	Mid-Flood	Surface	1	16:17	8.99 8.18	33.08	27.34	2.97	3	0.289	E /
C2	20230912	Cloudy	Moderate	Mid-Flood	Middle	12.2	16:16	9.29 8.20	33.05	27.40	2.87	2.5	0.286	SE /
C2	20230912	Cloudy	Moderate	Mid-Flood	Middle	12.2	16:16	9.24 8.16	33.12	27.29	2.88	2.5	0.276	E /
C2	20230912	Cloudy	Moderate	Mid-Flood	Bottom	23.4	16:15	9.06 8.18	32.92	27.38	2.93	3	0.268	SE /
C2		Cloudy	Moderate	Mid-Flood	Bottom	23.4	16:15	9.07 8.19	32.84	27.33	3.07	3		E /
M1	20230912	Cloudy	Moderate	Mid-Flood	Surface	1	16:55	8.77 8.29	32.65	27.57	1.88	2.5	0.310	SE /
M1	20230912	Cloudy	Moderate	Mid-Flood	Surface	1	16:55	8.73 8.30	32.66	27.53	1.98	2.5	0.270	E /
M1	20230912	Cloudy	Moderate	Mid-Flood	Middle	3.2	16:54	8.76 8.38	32.82	27.52	1.63	2.5	0.269	E /
M1	20230912	Cloudy	Moderate	Mid-Flood	Middle	3.2	16:54	8.76 8.33	32.87	27.50	1.70	2.5	0.296	SE /
M1	20230912	Cloudy	Moderate	Mid-Flood	Bottom	5.4	16:53	9.01 8.37	32.80	27.46	1.87	2.5	0.300	SE /
M1	20230912	Cloudy	Moderate	Mid-Flood	Bottom	5.4	16:53	8.88 8.35	32.85	27.53	1.94	2.5	0.287	E /
M2	20230912	Cloudy	Moderate	Mid-Flood	Surface	1	17:12	8.44 8.19	33.55	27.34	2.11	3	0.311	SE /
M2	20230912	Cloudy	Moderate	Mid-Flood	Surface	1	17:12	8.42 8.17	33.56	27.28	2.01	2.5	0.279	SE /
M2	20230912	Cloudy	Moderate	Mid-Flood	Middle	6.3	17:11	8.43 8.16	33.55	27.26	2.06	3	0.307	SE /
M2		Cloudy	Moderate	Mid-Flood	Middle	6.3	17:11	8.49 8.17	33.58	27.38	2.18	2.5	0.274	SE /
M2		Cloudy	Moderate	Mid-Flood	Bottom	11.6		8.32 8.19	33.43	27.26	1.97	2.5	0.268	E /
M2	20230912	Cloudy	Moderate	Mid-Flood	Bottom	11.6	17:10	8.40 8.18	33.56	27.28	2.29	2.5	0.278	SE /
M3	20230912	Cloudy	Moderate	Mid-Flood	Surface	1	16:42	8.35 8.31	32.69	27.46	2.18	2.5	0.301	SE /
M3	20230912	Cloudy	Moderate	Mid-Flood	Surface	1	16:42	8.47 8.35	32.42	27.41	1.97	2.5	0.290	SE /
M3	20230912	Cloudy	Moderate	Mid-Flood	Middle	3.3	16:41	8.33 8.27	32.70	27.40	1.88	2	0.275	SE /
M3		Cloudy	Moderate	Mid-Flood	Middle	3.3	16:41	8.48 8.27	32.68	27.40	2.01	2.5	0.273	SE /
M3		Cloudy	Moderate	Mid-Flood	Bottom	5.6		8.44 8.30	32.68	27.51	1.76	2.5	0.267	F /
M3 M3						5.6	16:40				2.06	2.5	0.267	SE /
M4		Cloudy Cloudy	Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	5.0	16:40	8.46 8.35 8.67 8.21	32.66	27.43 27.62		2.5	0.286	s /
M4		Cloudy	Moderate	Mid-Flood Mid-Flood	Surface	4	17:51	8.76 8.18	33.05	27.62	1.99	3	0.283	SF /
M4						4.3			33.24	27.49	1.91		0.294	SE /
M4 M4		Cloudy	Moderate Moderate	Mid-Flood Mid-Flood	Bottom	4.3		8.62 8.21 8.47 8.17	33.09	27.57	1.86		0.268	SE /
		Cloudy				4.3				27.50		3		ы. / с /
C1	20230914	Cloudy	Moderate	Mid-Flood	Surface	1	16:45	8.33 8.22	32.57		2.82	2.5	0.300	
C1	20230914	Cloudy	Moderate	Mid-Flood	Surface	1	16:45	8.44 8.22	32.65	27.35	2.77	2.5	0.279	5t /
C1	20230914	Cloudy	Moderate	Mid-Flood	Middle	10.6	16:44	8.39 8.21	32.54	27.27	2.97	2.5	0.305	5L /
C1	20230914	Cloudy	Moderate	Mid-Flood	Middle	10.6	16:44	8.60 8.22	32.61	27.35	2.86	3	0.303	t /
C1	20230914	Cloudy	Moderate	Mid-Flood	Bottom	20.2	16:43	8.44 8.25	32.75	27.36	2.86	2.5	0.276	5E /
C1	20230914	Cloudy	Moderate	Mid-Flood	Bottom	20.2	16:43	8.58 8.22	32.65	27.39	2.72	4	0.273	SE /
C2	20230914	Cloudy	Moderate	Mid-Flood	Surface	1	15:50	8.67 8.24	32.60	27.51	3.16	2.5	0.275	SE /
C2	20230914	Cloudy	Moderate	Mid-Flood	Surface	1	15:50	8.44 8.27	32.74	27.37	2.99	3	0.305	SE /
C2	20230914	Cloudy	Moderate	Mid-Flood	Middle	11.15	15:49	8.79 8.24	32.51	27.49	3.07	2.5	0.289	E /
C2		Cloudy	Moderate	Mid-Flood	Middle	11.15	15:49	8.47 8.23	32.53	27.42	3.17	3	0.310	SE /
C2	20230914	Cloudy	Moderate	Mid-Flood	Bottom	21.3	15:48	8.73 8.27	32.53	27.41	3.16	3	0.304	SE /
C2	20230914	Cloudy	Moderate	Mid-Flood	Bottom	21.3	15:48	8.78 8.27	32.75	27.47	3.31	3	0.290	SE /
M1	20230914	Cloudy	Moderate	Mid-Flood	Surface	1	16:14	8.29 8.18	32.79	27.46	2.34	3	0.273	SE /
M1	20230914	Cloudy	Moderate	Mid-Flood	Surface	1	16:14	8.18 8.19	32.92	27.54	2.57	4	0.310	SE /
M1	20230914	Cloudy	Moderate	Mid-Flood	Middle	3.7	16:13	8.21 8.15	32.75	27.55	2.34	4	0.279	SE /
M1	20230914	Cloudy	Moderate	Mid-Flood	Middle	3.7	16:13	8.39 8.19	32.94	27.44	2.54	2.5	0.284	E /
M1	20230914	Cloudy	Moderate	Mid-Flood	Bottom	6.4	16:12	8.38 8.19	32.82	27.36	2.51	4	0.285	SE /
M1	20230914	Cloudy	Moderate	Mid-Flood	Bottom	6.4		8.41 8.21	32.94	27.46	2.67	2.5	0.274	SE /
M2	20230914	Cloudy	Moderate	Mid-Flood	Surface	1	16:27	8.25 8.17	33.44	27.34	2.08	2.5	0.292	E /
M2	20230914	Cloudy	Moderate	Mid-Flood	Surface	1	16:27	8.41 8.15	33.44	27.19	2.31	3	0.271	SE /
M2	20230914	Cloudy	Moderate	Mid-Flood	Middle	6.6	16:26	8.28 8.15	33.46	27.32	2.37	3	0.307	E /
M2	20230914	Cloudy	Moderate	Mid-Flood	Middle	6.6	16:26	8.26 8.19	33.50	27.24	2.38	4	0.266	SE /
M2	20230914	Cloudy	Moderate	Mid-Flood	Bottom	12.2	16:25	8.40 8.13	33.43	27.25	2.04		0.273	SF /
M2		Cloudy	Moderate	Mid-Flood	Bottom	12.2		8.22 8.18	33.59	27.39	2.04	3	0.310	SE /
M3	20230914	Cloudy	Moderate	Mid-Flood	Surface	11.12	16:03	8.60 8.18	33.06	27.23	1.70	2	0.299	sc /
M3	20230914	Cloudy	Moderate	Mid-Flood	Surface	1	16:03	8.51 8.22	32.77	27.18			0.302	se /
M3	20230914	Cloudy	Moderate	Mid-Flood	Middle	3.35	16:02	8.48 8.18	32.84	27.25	1.58	25	0.295	5L /
M3	20230914	Cloudy	Moderate	Mid-Flood	Middle	3.35	16:02	8.46 8.24	33.09	27.23	1.38	2.5	0.295	E /
										27.28	1.80	2.3		SE /
M3	20230914	Cloudy	Moderate	Mid-Flood	Bottom	5.7	16:01	8.39 8.24	33.09			3	0.276	SE /
M3 M4	20230914	Cloudy	Moderate	Mid-Flood	Bottom	5.7	16:01	8.66 8.25	33.09	27.26	1.95	3	0.301	E /
		Cloudy	Moderate	Mid-Flood	Surface	1	17:08	8.86 8.27	32.50	27.48		2.5	0.308	E /
M4	20230914	Cloudy	Moderate	Mid-Flood	Surface	1	17:08	8.81 8.27	32.61	27.46	2.41	3	0.278	SL /
M4	20230914	Cloudy	Moderate	Mid-Flood	Bottom	4.6		8.83 8.26	32.56	27.47	2.05	3	0.277	2E /
M4	20230914	Cloudy	Moderate	Mid-Flood	Bottom	4.6	17:07	8.86 8.24	32.56	27.49	2.32	2.5	0.294	t /
C1	20230916	Cloudy	Moderate	Mid-Flood	Surface	1	17:35	8.65 8.14	32.98	27.39	2.64	2.5	0.304	SE //
C1	20230916	Cloudy	Moderate	Mid-Flood	Surface	1	17:35	8.66 8.18	32.78	27.40	2.73	2.5	0.275	5E /
C1		Cloudy	Moderate	Mid-Flood	Middle	10.5	17:34	8.24 8.17	33.03	27.33	2.48	3	0.306	t /
C1	20230916	Cloudy	Moderate	Mid-Flood	Middle	10.5	17:34	8.33 8.22	32.83	27.35	2.62	2.5	0.293	E //
C1	20230916		Moderate	Mid-Flood	Bottom	20	17:33	8.62 8.19	32.80	27.37	2.52	3	0.305	5E //
C1		Cloudy	Moderate	Mid-Flood	Bottom	20	17:33	8.55 8.13	32.94	27.32	2.69	2.5	0.290	5E /
C2	20230916	Cloudy	Moderate	Mid-Flood	Surface	1	16:31	8.41 8.16	31.97	27.50	3.11	2.5	0.301	SE /
C2	20230916	Cloudy	Moderate	Mid-Flood	Surface	1	16:31	8.50 8.15	32.18	27.39	2.97	2.5	0.285	5E /
C2	20230916	Cloudy	Moderate	Mid-Flood	Middle	10.65	16:30	8.38 8.15	32.15	27.49	2.88	2.5	0.304	SE //
C2		Cloudy	Moderate	Mid-Flood	Middle	10.65	16:30	8.40 8.18	31.92	27.42	2.92	2.5	0.309	5E /
C2			Moderate	Mid-Flood	Bottom	20.3	16:29	8.39 8.14	32.10	27.50	2.87	2.5	0.275	SE /
C2	20230916		Moderate		Bottom	20.3	16:29	8.47 8.14	31.94	27.40	2.94	2.5	0.309	t /
M1	20230916	Cloudy	Moderate	Mid-Flood		1	17:00	8.52 8.26	32.97	27.52	1.89	2.5		SE /
M1	20230916		Moderate	Mid-Flood	Surface	1	17:00	8.31 8.28	32.77	27.53	1.99	2.5		SE /
M1	20230916		Moderate	Mid-Flood	Middle	3.4		8.31 8.32	32.72	27.61	1.97	3	0.308	E /
M1		Cloudy	Moderate	Mid-Flood	Middle	3.4	16:59	8.33 8.24	32.96	27.54	2.20	2.5	0.273	E /
M1		Cloudy		Mid-Flood	Bottom	5.8	16:58	8.26 8.31	32.75	27.62	1.81	3	0.307	SE /
M1		Cloudy	Moderate	Mid-Flood	Bottom	5.8		8.53 8.29	32.87	27.53	2.14	2.5	0.298	
	20230916		Moderate	Mid-Flood	Surface	1	17:14	8.40 8.24	33.28	27.36	2.07	2.5	0.275	SE /
M2		Cloudy	Moderate	Mid-Flood	Surface	1	17:14	8.44 8.24	33.33	27.44	2.15	2.5		E /
M2 M2	20230916		Moderate	Mid-Flood	Middle	6.65	17:13	8.34 8.25	33.31	27.42		2.5		E /
M2 M2 M2	20230916 20230916						17:13	8.38 8.19	33.33	27.48	2.08		0.204	SF /
M2 M2 M2 M2	20230916 20230916 20230916	Cloudy	Moderate	Mid-Flood	Middle	6.65						3	0.301	/
M2 M2 M2 M2 M2 M2	20230916 20230916 20230916 20230916	Cloudy Cloudy		Mid-Flood Mid-Flood	Middle Bottom	12.3	17:12	8.38 8.27	33.14	27.40	2.05	3	0.294	SE /
M2 M2 M2 M2 M2 M2 M2	20230916 20230916 20230916 20230916 20230916	Cloudy Cloudy Cloudy	Moderate Moderate Moderate					8.38 8.27 8.45 8.18	33.14 33.18	27.40 27.46	2.05	3	0.294 0.304	SE / E /
M2 M2 M2 M2 M2 M2	20230916 20230916 20230916 20230916 20230916	Cloudy Cloudy	Moderate Moderate	Mid-Flood	Bottom	12.3	17:12	8.38 8.27	33.14	27.40	2.05	3 3 2.5	0.294	SE / E / SE /
M2 M2 M2 M2 M2 M2 M2	20230916 20230916 20230916 20230916 20230916	Cloudy Cloudy Cloudy Cloudy	Moderate Moderate Moderate	Mid-Flood Mid-Flood	Bottom Bottom	12.3	17:12 17:12	8.38 8.27 8.45 8.18	33.14 33.18	27.40 27.46	2.05	3 3 2.5 2.5	0.294 0.304 0.307	SE / E / SE / E /
M2 M2 M2 M2 M2 M2 M2 M3	20230916 20230916 20230916 20230916 20230916 20230916 20230916	Cloudy Cloudy Cloudy Cloudy Cloudy	Moderate Moderate Moderate Moderate Moderate	Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood	Bottom Bottom Surface	12.3	17:12 17:12 16:47	8.38 8.27 8.45 8.18 9.16 8.12	33.14 33.18 32.20	27.40 27.46 27.32	2.05 2.28 1.69		0.294 0.304 0.307 0.269	E/ SE/ E/
M2 M2 M2 M2 M2 M2 M3 M3	20230916 20230916 20230916 20230916 20230916 20230916 20230916 20230916	Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy	Moderate Moderate Moderate Moderate Moderate	Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood	Bottom Bottom Surface Surface	12.3 12.3 1 1	17:12 17:12 16:47 16:47	8.38 8.27 8.45 8.18 9.16 8.12 9.05 8.15	33.14 33.18 32.20 32.29 32.28	27.40 27.46 27.32 27.31	2.05 2.28 1.69 1.78 1.72	2.5	0.294 0.304 0.307 0.269	E/ SE/ E/
M2 M2 M2 M2 M2 M2 M3 M3 M3 M3	20230916 20230916 20230916 20230916 20230916 20230916 20230916 20230916 20230916	Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy	Moderate Moderate Moderate Moderate Moderate	Mid-Flood Mid-Flood Mid-Flood Mid-Flood	Bottom Bottom Surface Surface Middle	12.3 12.3 1 1 3.55	17:12 17:12 16:47 16:47 16:46	8.38 8.27 8.45 8.18 9.16 8.12 9.05 8.15 9.24 8.17	33.14 33.18 32.20 32.29	27.40 27.46 27.32 27.31 27.36	2.05 2.28 1.69 1.78 1.72 2.01	2.5	0.294 0.304 0.307 0.269 0.264	E / /
M2 M2 M2 M2 M2 M3 M3 M3 M3 M3 M3 M3	20230916 20230916 20230916 20230916 20230916 20230916 20230916 20230916 20230916 20230916	Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy	Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate	Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood	Bottom Bottom Surface Surface Middle Middle Bottom	12.3 12.3 1 3.55 3.55 6.1	17:12 17:12 16:47 16:47 16:46 16:46 16:45	8.38 8.27 8.45 8.18 9.16 8.12 9.05 8.15 9.24 8.17 9.21 8.18 9.22 8.16	33.14 33.18 32.20 32.29 32.28 32.10 32.09	27.40 27.46 27.32 27.31 27.36 27.29 27.37	2.05 2.28 1.69 1.78 1.72 2.01 1.74	2.5	0.294 0.304 0.307 0.269 0.264 0.301 0.275	E/ SE/ SE/ SE/
M2 M2 M2 M2 M2 M2 M3 M3 M3 M3 M3	20230916 20230916 20230916 20230916 20230916 20230916 20230916 20230916 20230916 20230916	Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy	Moderate Moderate Moderate Moderate Moderate Moderate Moderate	Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood	Bottom Bottom Surface Surface Middle Middle	12.3 12.3 1 1 3.55 3.55	17:12 17:12 16:47 16:47 16:46 16:46	8.38 8.27 8.45 8.18 9.16 8.12 9.05 8.15 9.24 8.17 9.21 8.18	33.14 33.18 32.20 32.29 32.28 32.10	27.40 27.46 27.32 27.31 27.36 27.29	2.05 2.28 1.69 1.78 2.01 2.01 1.74 1.72	2.5	0.294 0.304 0.307 0.269 0.264 0.301	E/ SE/ SE/ SE/
M2 M2 M2 M2 M2 M3 M3 M3 M3 M3 M3 M3 M3 M3	20230916 20230916 20230916 20230916 20230916 20230916 20230916 20230916 20230916 20230916	Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy	Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate	Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood	Bottom Bottom Surface Surface Middle Bottom Bottom	12.3 12.3 1 3.55 3.55 6.1	17:12 17:12 16:47 16:47 16:46 16:46 16:45 16:45 16:45 16:45	8.38 8.27 8.45 8.18 9.16 8.12 9.05 8.15 9.24 8.17 9.21 8.18 9.22 8.16 9.12 8.19	33.14 33.18 32.20 32.29 32.28 32.10 32.09 32.09	27.40 27.46 27.32 27.31 27.36 27.29 27.37 27.29	2.05 2.28 1.69 1.72 2.01 1.74 1.72 1.96	2.5 2.5 3 3	0.294 0.307 0.269 0.264 0.301 0.275 0.275 0.271 0.300	E / / SE / / SE / / SE / / SE / / SE / / SE / /
M2 M2 M2 M2 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3	20230916 20230916 20230916 20230916 20230916 20230916 20230916 20230916 20230916 20230916 20230916	Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy	Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate	Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood	Bottom Bottom Surface Surface Middle Bottom Bottom Surface	12.3 12.3 1 1 3.55 3.55 6.1 6.1 1	17:12 17:12 16:47 16:46 16:46 16:45 16:45 16:45 17:57 17:57	8.38 8.27 8.45 8.18 9.16 8.12 9.05 8.15 9.24 8.17 9.21 8.18 9.22 8.16 9.12 8.19 9.12 8.12	33.14 33.18 32.20 32.29 32.28 32.10 32.09 32.09 32.09 32.29	27.40 27.46 27.32 27.31 27.36 27.29 27.37 27.29 27.37 27.29	2.05 2.28 1.69 1.72 2.01 1.74 1.72 1.96	2.5 2.5 3 3 2.5	0.294 0.307 0.269 0.264 0.301 0.275 0.275 0.271 0.300	E / / SE / / E / SE / SE / / SE / / SE / / SE / SE / SE / / SE / / SE / S
M2 M2 M2 M2 M2 M3 M3 M3 M3 M3 M3 M3 M3 M4 M4 M4	20230916 20230916 20230916 20230916 20230916 20230916 20230916 20230916 20230916 20230916 20230916 20230916	Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy Cloudy	Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate	Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood Mid-Flood	Bottom Bottom Surface Surface Middle Middle Bottom Bottom Surface Surface Surface Bottom	12.3 12.3 1 1 3.55 3.55 6.1 6.1 1 1	17:12 17:12 16:47 16:47 16:46 16:46 16:45 16:45 16:45 16:45 17:57 17:57	8.38 8.27 8.45 8.18 9.16 8.12 9.05 8.15 9.24 8.17 9.21 8.18 9.22 8.16 9.12 8.19 9.01 8.22 8.78 8.22	33.14 33.18 32.20 32.29 32.28 32.10 32.09 32.09 32.29 32.29 32.36	27.40 27.46 27.32 27.31 27.36 27.29 27.37 27.29 27.37 27.29 27.72 27.63	2.05 2.28 1.69 1.78 1.72 2.01 1.74 1.72 1.96 2.27 1.97	2.5 2.5 3 3 2.5	0.294 0.304 0.307 0.269 0.264 0.301 0.275 0.231 0.300 0.300 0.300 0.300	E / / SE / /



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C1	20230919		Moderate	Mid-Flood		1	9:01	8.46	8.16		27.36	2.64	2.5	0.282	SE	/
C1	20230919		Moderate	Mid-Flood	Surface	1	9:01	8.67	8.17	33.00	27.39	2.66	2.5		E	/
C1		Sunny	Moderate	Mid-Flood	Middle	10.95	9:00	8.61	8.17	32.81	27.49	2.60	3	0.292	SE	/
C1	20230919		Moderate	Mid-Flood	Middle	10.95	9:00	8.59	8.20		27.39	2.77	3	0.302	E Cr	/
C1 C1	20230919 20230919	Sunny	Moderate	Mid-Flood Mid-Flood	Bottom	20.9	8:59	8.58	8.18	32.83	27.36	2.62	2.5	0.283	SE	/
C2	20230919 20230919	Sunny	Moderate Moderate	Mid-Flood Mid-Flood	Bottom	20.9	8:59	8.53	8.18	32.88	27.58	3.18		0.2/1	t r	/
C2 C2	20230919	Sunny Sunny	Moderate	Mid-Flood	Surface Surface	1	8:02	8.78	8.22	32.20	27.56	3.47	2.5	0.282	с с	/
C2	20230919		Moderate	Mid-Flood	Middle	11.6	8:01	8.64	8.22	32.22	27.66	3.20	2.5		F	/
C2	20230919	Sunny	Moderate	Mid-Flood	Middle	11.6	8:01	8.69	8.19	32.01	27.67	3.31	2.5	0.279	SE	/
C2	20230919		Moderate	Mid-Flood	Bottom	22.2	8:00	8.70	8.19		27.61	3.21	2.5	0.288	SE	/
C2	20230919	Sunny	Moderate	Mid-Flood	Bottom	22.2	8:00	8.68	8.17	32.14	27.55	3.11	2.5	0.292	E	/
M1		Sunny	Moderate	Mid-Flood	Surface	1	8:27	8.66	8.26	5 32.94	27.32	2.23	2.5	0.275	E	/
M1	20230919	Sunny	Moderate	Mid-Flood	Surface	1	8:27	8.60	8.21	33.17	27.35	2.26	m	0.297	SE	/
M1	20230919	Sunny	Moderate	Mid-Flood	Middle	3.65	8:26	8.50	8.18	33.00	27.42	2.48	-	0.274	SE	/
M1	20230919	Sunny	Moderate	Mid-Flood	Middle	3.65	8:26	8.58	8.21	33.05	27.38	2.34	2.5	0.285	SE	/
M1	20230919	Sunny	Moderate	Mid-Flood	Bottom	6.3	8:25	8.54	8.21		27.30	2.45	2.5	0.283	SE	/
M1	20230919	Sunny	Moderate	Mid-Flood	Bottom	6.3	8:25	8.50	8.25	33.00	27.40	2.58	-	0.269	E	/
M2 M2	20230919 20230919		Moderate Moderate	Mid-Flood Mid-Flood	Surface	1	8:42	8.42	8.29	32.39	27.45	2.28	2.5	0.279	SE r	/
M2 M2	20230919 20230919	Sunny Sunny	Moderate	Mid-Flood Mid-Flood	Surface Middle	1 6.7	8:42	8.44	8.31	32.35	27.46	2.42	Z.5	0.301	E CF	/
M2	20230919	Sunny	Moderate	Mid-Flood	Middle	6.7	8:41	8.33	8.23		27.41	2.23	2.5	0.298	SF	/
M2	20230919	Sunny	Moderate	Mid-Flood	Bottom	12.4	8:40	8.49	8.24	32.48	27.45	2.10	2.5		F	/
M2		Sunny	Moderate	Mid-Flood	Bottom	12.4	8:40	8.46	8.29	32.42	27.35	2.10			F	/
M3	20230919	Sunny	Moderate	Mid-Flood	Surface	1	8:15	8.33	8.16		27.51	2.04	3	0.297	SE	/
M3	20230919		Moderate	Mid-Flood	Surface	1	8:15	8.40	8.23		27.42	2.26	2.5	0.295	E	/
M3	20230919	Sunny	Moderate	Mid-Flood	Middle	4	8:14	8.47	8.24		27.51	2.23	3	0.263	E	/
M3	20230919		Moderate	Mid-Flood	Middle	4	8:14	8.48	8.24	32.08	27.40	2.33	3	0.298	SE	/
M3	20230919	Sunny	Moderate	Mid-Flood	Bottom	7	8:13	8.35	8.20		27.45	2.15	3	0.287	E	/
M3	20230919	Sunny	Moderate	Mid-Flood	Bottom	7	8:13	8.24	8.24	32.06	27.49	2.16	2.5	0.305	E	/
M4	20230919	Sunny	Moderate	Mid-Flood	Surface	1	9:25	8.22	8.17	32.68	27.67	1.94	2.5	0.269	SE	/
M4	20230919	Sunny	Moderate	Mid-Flood	Surface	1	9:25	8.23	8.20		27.68	2.10	3	0.277	SE	/
M4			Moderate	Mid-Flood	Bottom	3.7	9:24	8.32	8.19		27.57	1.79	3	0.295	5L	/
M4 C1	20230919 20230921	Sunny	Moderate Moderate	Mid-Flood Mid-Flood	Bottom	3.7	9:24	8.27	8.21	32.73	27.69	2.02	3	0.283	с сс	/
C1 C1	20230921 20230921	Sunny	Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	9:57	8.67	8.19	33.83	27.10 27.18	2.94		0.274	55	/
C1 C1		Sunny Sunny	Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	11.4	9:57	8.55	8.21	33.69	27.18	2.91		0.311	r F	/
C1	20230921 20230921	Sunny Sunny	Moderate	Mid-Flood Mid-Flood	Middle	11.4	9:56	8.53	8.22		27.11 27.18	2.69		0.300	SF.	/
C1	20230921	Sunny	Moderate	Mid-Flood	Bottom	21.8	9:55	8.71	8.15	33.66	27.10	2.88	-	0.270	SE	/
C1		Sunny	Moderate	Mid-Flood	Bottom	21.8	9:55	8.54	8.16	33.75	27.19	2.88	4	0.285	E	/
C2	20230921		Moderate	Mid-Flood	Surface	1	8:52	8.83	8.23	32.54	27.21	3.10	3	0.302	SE	/
C2		Sunny	Moderate	Mid-Flood	Surface	1	8:52	8.83	8.26	32.57	27.20	2.85	4	0.308	SE	/
C2	20230921	Sunny	Moderate	Mid-Flood	Middle	10.5	8:51	8.82	8.25	32.37	27.26	2.99	4	0.266	SE	/
C2	20230921	Sunny	Moderate	Mid-Flood	Middle	10.5	8:51	8.82	8.24	32.39	27.20	2.92	4	0.294	SE	/
C2	20230921	Sunny	Moderate	Mid-Flood	Bottom	20	8:50	8.66	8.26	i 32.36	27.23	3.15	4	0.272	SE	/
C2	20230921	Sunny	Moderate	Mid-Flood	Bottom	20	8:50	8.63	8.27	32.57	27.24	3.17	5	0.273	SE	/
M1	20230921	Sunny	Moderate	Mid-Flood	Surface	1	9:25	8.41	8.34		27.12	2.40	E	0.297	E	/
M1	20230921		Moderate	Mid-Flood	Surface	1	9:25	8.44	8.29		27.19	2.18	8	0.287	SE	/
M1	20230921	Sunny	Moderate	Mid-Flood	Middle	3.3	9:24	8.42	8.29	32.60	27.24	2.40	4	0.296	SE	/
M1	20230921	Sunny	Moderate	Mid-Flood	Middle	3.3	9:24	8.48	8.33	32.70	27.14	2.43	5	0.285	SE	/
M1	20230921	Sunny	Moderate	Mid-Flood	Bottom	5.6	9:23	8.43	8.33		27.23	2.32	4	0.310	SE	/
M1 M2	20230921	Sunny	Moderate Moderate	Mid-Flood	Bottom Surface	5.6	9:23	8.35	8.27	32.62	27.21 27.18	2.35	4	0.304	E CE	/
M2	20230921 20230921	Sunny Sunny	Moderate	Mid-Flood Mid-Flood	Surface	1	9:38	9.20	8.20	32.45	27.18	2.40	F	0.281	F	/
M2	20230921		Moderate	Mid-Flood	Middle	6.3	9:37	9.29	8.17		27.18	2.14		0.309	SE	/
M2	20230921		Moderate	Mid-Flood	Middle	6.3	9:37	9.45	8.21	32.50	27.17	2.39	5	0.282	E	/
M2		Sunny	Moderate	Mid-Flood	Bottom	11.6	9:36	9.41	8.17	32.44	27.24	2.15	4	0.300	SE	/
M2	20230921	Sunny	Moderate	Mid-Flood	Bottom	11.6	9:36	9.39	8.16	32.38	27.16	2.06	3	0.301	SE	/
M3	20230921	Sunny	Moderate	Mid-Flood	Surface	1	9:13	8.95	8.17	32.80	27.02	1.74	4	0.279	E	/
M3	20230921	Sunny	Moderate	Mid-Flood	Surface	1	9:13	8.81	8.18		27.01	1.99		0.264	SE	/
M3	20230921	Sunny	Moderate	Mid-Flood	Middle	3.55	9:12	8.82	8.15	32.82	27.07	1.70	4	0.272	SE	/
M3	20230921	Sunny	Moderate	Mid-Flood	Middle	3.55	9:12	9.02	8.12	32.76	27.04	1.83	4	0.285	E	/
M3	20230921		Moderate	Mid-Flood	Bottom	6.1	9:11	8.93	8.15		27.08	1.80	4	0.304	SE	/
M3	20230921	Sunny	Moderate	Mid-Flood	Bottom	6.1	9:11	8.78	8.13	32.92	27.07	2.09	3	0.264	E	/
M4	20230921	Sunny	Moderate	Mid-Flood	Surface	1	10:18	8.85	8.25	33.50	27.07	2.09	4	0.277	SE	/
M4 M4	20230921 20230921	Sunny Sunny	Moderate Moderate	Mid-Flood Mid-Flood	Surface Bottom	4.1	10:18	9.10 9.05	8.26	i 33.31	27.01 26.98	2.26	6	0.298	F	/
M4 M4	20230921 20230921	Sunny Sunny	Moderate Moderate	Mid-Flood Mid-Flood	Bottom	4.1	10:17	9.05	8.26	33.36	26.98	2.13	5	0.265	SF	/
M4 C1	20230921 20230923	Sunny	Moderate	Mid-Flood Mid-Flood	Surface	4.1	10:17	8.94	8.26	33.30	26.99	2.22	4	0.273	SE	/
C1		Sunny	Moderate	Mid-Flood	Surface	1	16:23	8.61	8.30		27.05	2.66	-	0.204	SE	/
C1	20230923	Sunny	Moderate	Mid-Flood	Middle	11.2	16:22	8.37	8.34		27.15	2.69	3	0.287	E	/
C1	20230923	Sunny	Moderate	Mid-Flood	Middle	11.2	16:22	8.43	8.29	32.50	27.11	2.74	5	0.287	SE	/
C1	20230923	Sunny	Moderate	Mid-Flood	Bottom	21.4	16:21	8.37	8.30	32.47	27.16	2.47	3	0.272	SE	/
C1	20230923	Sunny	Moderate	Mid-Flood	Bottom	21.4	16:21	8.35	8.31	32.51	27.14	2.65	4	0.302	SE	/
C2	20230923	Sunny	Moderate	Mid-Flood	Surface	1	15:18	8.76	8.43	32.59	27.17	2.82	4	0.266	SE	/
C2	20230923	Sunny	Moderate	Mid-Flood	Surface	1	15:18	8.88	8.46	32.69	27.14	2.87	3	0.311	E	/
C2	20230923	Sunny	Moderate	Mid-Flood	Middle	11.65	15:17	8.85	8.41		27.19	2.87	4	0.270	5E	/
C2 C2	20230923 20230923	Sunny	Moderate Moderate	Mid-Flood Mid-Flood	Middle	11.65 22.3	15:17	8.94 8.94	8.45	32.66	27.14	2.97	5	0.270	5E CE	/
C2		Sunny			Bottom	22.3				32.00	27.19	2.93	4		SE	/
C2 M1	20230923 20230923	Sunny Sunny	Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	44.5	15:16	8.78	8.47	32.69	27.04	3.11 2.27	6	0.299	SE	/
M1 M1	20230923 20230923		Moderate	Mid-Flood Mid-Flood	Surface	1	15:46	8.38	8.34		26.99 27.10	2.27	4	0.286	E	/
M1	20230923	Sunny	Moderate	Mid-Flood	Middle	3.65	15:40	8.41	8.38		27.10	1.95	-	0.278	SE	/
M1 M1	20230923		Moderate		Middle	3.65	15:45	8.45	8.37		27.00	2.24	4	0.296		/
M1	20230923		Moderate	Mid-Flood		6.3	15:44	8.52	8.35		27.08	2.27	4	0.300		/
M1	20230923	Sunny	Moderate	Mid-Flood	Bottom	6.3	15:44	8.59	8.35	32.74	27.11	2.32	4	0.290		/
M2	20230923	Sunny	Moderate	Mid-Flood	Surface	1	15:58	8.48	8.31	33.92	27.08	2.26	3	0.276	E	/
M2	20230923	Sunny	Moderate	Mid-Flood	Surface	1	15:58	8.46	8.30	33.96	27.10	2.49	3	0.311		/
M2	20230923	Sunny	Moderate		Middle	6.8	15:57	8.45	8.29		27.00	2.20	3	0.311		/
M2	20230923	Sunny	Moderate	Mid-Flood	Middle	6.8	15:57	8.48	8.27		26.98	2.42	5		SE	/
M2	20230923		Moderate	Mid-Flood	Bottom	12.6	15:56	8.56	8.30		27.12	2.29	3	0.291	E	/
M2	20230923		Moderate	Mid-Flood	Bottom	12.6	15:56	8.44	8.29		27.10	2.41	3	0.288	SE	/
M3	20230923	Sunny	Moderate	Mid-Flood	Surface	1	15:32	8.54	8.20		26.93	2.19	4	0.283	E CE	/
M3	20230923		Moderate	Mid-Flood Mid-Flood	Surface	1	15:32	8.56	8.24		26.96	2.23			5E	/
M3 M3	20230923 20230923	Sunny	Moderate Moderate		Middle Middle	3.3 3.3	15:31 15:31	8.62	8.22		26.98 27.00	2.10	5	0.301	SE CE	/
M3 M3		Sunny	Moderate	Mid-Flood Mid-Flood		3.3	15:31	8.55			27.00 26.91	2.22	4	0.305	SE	/
M3 M3	20230923 20230923	Sunny Sunny	Moderate	Mid-Flood Mid-Flood	Bottom Bottom	5.6	15:30	8.53	8.23		26.91	2.16	4	0.305	F	/
M4	20230923		Moderate	Mid-Flood	Surface	5.0	16:47	8.59	8.42		27.01	2.13		0.281	SE	<i>′</i> /
M4	20230923		Moderate	Mid-Flood	Surface	1	16:47	8.53	8.41		27.06	2.45	5	0.295	E	/
M4	20230923	Sunny	Moderate	Mid-Flood	Bottom	4.6	16:46	8.50	8.40		27.07	2.28	4	0.283	E	/
M4	20230923		Moderate	Mid-Flood		4.6	16:46	8.49	8.35		27.00	2.32	4	0.273		/
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D Disco Job Disco Job Job<	C1					Surface	1	16:33	8.31	8.24		28.25		4	0.299	SE /	
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Mail 2023028 kunny Moderate Mdi-Floo Mdi-Floo State Res Res Res	M3	20230928	Sunny	Moderate	Mid-Flood	Surface	1	16:31	8.66	8.34	33.54	28.15	2.16	2.5	ō 0.287	E /	
M32023928 kurryModerateMid-Flooettem	M3		Sunny	Moderate	Mid-Flood	Middle	3.2	16:30	8.90	8.29	33.51	28.18	2.32	4	0.273	SE /	
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M4 20230222 Summy Moderate Mufrefood M	M3	20230928	Sunny	Moderate	Mid-Flood	Bottom	5.4	16:29	8.66	8.34	33.71	28.12	2.19	4	0.270	E /	
40230022 Sumy Moderate Mid-Fload Bottom 4.1 17.45 8.8.3 8.2.2 2.8.27 17.6 1 0.2.05 E ////////////////////////////////////	M4		Sunny	Moderate		Surface	1			8.31				3		E /	
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M2 2023093 Sunny Moderate Md-Flood Surface 1 1645 8.8.3 8.2.1 32.5.0 7.7.5 2.2.8 3 0.2.74 §E / M2 2023093 Sunny Moderate Md-Flood Middle 6.4 16.44 8.2.3 8.2.0 32.53 27.60 2.10 2.5 0.2.64 5.5 / / M2 20230930 Sunny Moderate Md-Flood Middle 6.4 16.44 8.22 8.23 32.55 27.60 2.10 2.5 0.266 §E / M2 20230930 Sunny Moderate Md-Flood Bottom 11.8 16.43 8.31 8.20 8.25 7.60 2.10 2.5 0.266 §E / M3 20230930 Sunny Moderate Md-Flood Surface 1 16.16 8.55 8.15 32.26 27.44 2.45 2.6 0.207 §E / / M3 20230930 Sunny Moderate Md-Flood Surface														2.5			
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M2 20230930 Sunny Moderate Md+Flood Midelle 6.4 16.44 8.22 8.24 27.58 2.5 2.6 0.264 SE / M2 20230930 Sunny Moderate Mid-Flood Bottom 11.8 16.43 8.21 8.21 32.55 27.60 1.94 2.5 0.266 SE / M2 20230930 Sunny Moderate Mid-Flood Bottom 11.8 16.43 8.21 32.55 27.60 1.94 2.5 0.270 E / M3 20230930 Sunny Moderate Mid-Flood Surface 1 16.16 8.55 8.15 32.26 27.46 2.41 2.5 0.220 St 2.6 0.242 St 2.6 0.242 St 2.6 0.242 St 2.6 0.242 St 2.6 0.247 St 2.6																F /	
M2 20230930 Sunny Moderate Md-Hood Bottom 11.8 16.43 8.21 8.23 32.56 27.60 1.94 2.5 0.266 [5 E / M2 20230930 Sunny Moderate Md-Hood Bottom 11.8 16.43 8.21 8.23 8.25 7.60 2.55 0.260 [5 E / / M3 20230930 Sunny Moderate Md-Hood Surface 1 16.16 8.55 8.15 32.26 27.46 2.45 2.5 0.267 [5 E / / M3 20230930 Sunny Moderate Mid-Hood Surface 1 16.16 8.57 8.13 32.29 27.46 2.45 2.5 0.207 [5 E / / M3 20230930 Sunny Moderate Mid-Hood Midele 3.25 16.15 8.64 8.13 32.29 27.41 2.48 3 0.2030 [5 C / / M3 20230930 Sunny Moderate Mid-Hood Midele																- / SF /	
M2 20220930 Sunny Moderate Mid-Flood Suttom 11.8 16.43 8.19 8.21 32.57 27.60 2.5 2.5 0.270 [c] / M3 20230930 Sunny Moderate Mid-Flood Surface 1 16.16 8.55 8.15 32.26 27.46 2.41 2.5 0.287 [s] / M3 20230930 Sunny Moderate Mid-Flood Surface 1 16.16 8.57 8.14 32.29 27.46 2.41 2.5 0.287 [s] / M3 20230930 Sunny Moderate Mid-Flood Surface 1 16.16 8.57 8.14 32.29 27.44 2.45 2.5 0.287 [s] / M3 20230930 Sunny Moderate Mid-Flood Midide 3.25 16.15 8.64 8.13 32.39 27.41 2.48 3 0.280 [s] / M3 20230930 Sunny Moderate Mid-Flood Buttom 5.5 16.14 <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></td><td></td></td<>																	
M3 20230930 Summy Moderate Md+Flood Surface 1 16:16 8.55 8.15 32.26 27.46 2.41 2.5 0.282 [st] / M3 20230930 Summy Moderate Md+Flood Surface 1 16:16 8.57 8.44 32.29 27.44 2.45 2.5 0.282 [st] / M3 20230930 Summy Moderate Md+Flood Midelice 3.25 16:15 8.69 8:13 32.29 27.41 2.48 3 0.280 [st] / // M3 20230930 Sumny Moderate Mid-Flood Midelice 3.25 16:15 8.64 8.13 32.29 27.41 2.48 3 0.280 [st] / M3 20230930 Sumny Moderate Mid-Flood Bottom 5.5 16:14 8.52 8.14 3.23 27.41 2.23 3 0.278 [st] / M3 20230930 Sunny Moderate Mid-Flood Bottom 5.5 <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>F /</td><td></td></td<>																F /	
M3 20230930 Sumny Moderate Md+Flood Surface 1 16.16 8.57 8.14 32.29 27.44 2.45 2.5 0.297 JSE / M3 20230930 Sumny Moderate Mid-Flood Middle 3.25 16.15 8.59 8.13 32.29 27.48 2.09 2.5 0.307 E / M3 20230930 Sumny Moderate Mid-Flood Middle 3.25 16.15 8.64 8.13 32.39 27.41 2.48 3 0.280 JSE / M3 20230930 Sunny Moderate Mid-Flood Middle 3.25 16.14 8.52 8.14 32.39 27.41 2.48 3 0.280 JSE / M3 20230930 Sunny Moderate Mid-Flood Buttom 5.5 16.14 8.52 8.14 32.34 27.41 2.23 3 0.280 JSE / M4 20230930 Sunny Moderate Mid-Flood Surface 1 17.31 8.4							11.8									SF /	
M3 20230930 Sunny Moderate Md-Hood Midelle 3.25 16.15 8.59 8.13 32.29 27.48 2.09 2.5 0.307 [c] / M3 20230930 Sunny Moderate Mid-Hood Midelle 3.25 16.15 8.69 8.13 32.39 27.41 2.48 3 0.280 Sec / M3 20230930 Sunny Moderate Mid-Hood Bottom 5.5 16.14 8.52 8.14 32.38 27.41 2.23 3 0.278 Sec / M3 20230930 Sunny Moderate Mid-Hood Bottom 5.5 16.14 8.52 8.14 32.38 27.41 2.23 3 0.278 Sec / M4 20230930 Sunny Moderate Mid-Hood Suttom 5.5 16.14 8.69 8.13 32.49 27.42 2.34 2.5 0.239 Sec / M4 20230930 Sunny Moderate Mid-Hood Sutface 1 17.31 8.44<							1										
M3 20230930 Sunny Moderate Mid-Flood Midelle 3.25 16.14 8.64 8.13 32.39 27.41 2.48 3 0.200 SE / M3 20230930 Sunny Moderate Mid-Flood Bottom 5.5 16.14 8.52 8.14 32.38 27.41 2.23 3 0.270 SE / M3 20230930 Sunny Moderate Mid-Flood Bottom 5.5 16.14 8.65 8.13 32.34 27.41 2.23 3 0.270 SE / / M4 20230930 Sunny Moderate Mid-Flood Surface 1 17.31 8.44 8.09 33.45 27.66 1.83 3 0.270 SE / M4 20230930 Sunny Moderate Mid-Flood Surface 1 17.31 8.44 8.13 31.42 27.66 1.90 2.5 0.296 SE / M4 20230930 Sunny Moderate Mid-Flood Surface 1 17.31							2 75									F /	
M3 20220930 Sunny Moderate Md+Flood Bottom 5.5 16:14 8.52 8.14 32.38 27.41 2.23 3 0.278 [sc / M3 20230930 Sunny Moderate Mid+Flood Bottom 5.5 16:14 8.65 8.13 32.34 27.41 2.3 3 0.278 [sc / M4 20230930 Sunny Moderate Mid-Flood Surface 1 1.731 8.44 8.09 3.136 27.64 1.83 3 0.297 [sc / M4 20230930 Sunny Moderate Mid-Flood Surface 1 1.731 8.41 8.13 31.42 27.66 1.90 2.5 0.296 [sc / M4 20230930 Sunny Moderate Mid-Flood Surface 1 1.731 8.51 8.13 31.42 27.66 1.90 2.5 0.296 [sc / M4 20230930 Sunny Moderate Mid-Flood Burface 1 1.730 8.44 <td></td> <td></td> <td></td> <td></td> <td>Mid_Flood</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2.5</td> <td></td> <td>SF /</td> <td></td>					Mid_Flood									2.5		SF /	
M3 20230930 Sunny Moderate Mid-Flood Bottom 5.5 16:14 8.65 8.13 32.34 27.42 2.34 2.5 0.294 SE / M4 20230930 Sunny Moderate Mid-Flood Surface 1 17.731 8.44 8.09 31.36 27.64 1.83 3 0.297 SE / M4 20230930 Sunny Moderate Mid-Flood Surface 1 17.731 8.44 8.09 31.42 27.66 1.90 2.5 0.296 SE / M4 20230930 Sunny Moderate Mid-Flood Surface 1 17.731 8.44 8.12 31.42 27.66 1.90 2.5 0.296 SE / M4 20230930 Sunny Moderate Mid-Flood Bottom 3.9 17.30 8.44 8.12 31.42 27.66 2.00 4 0.270 SE /																	
M4 20230930 Sunny Moderate Mid-Flood Surface 1 17.31 8.44 8.09 33.66 27.64 1.83 3 0.297 JSc / M4 20230930 Sunny Moderate Mid-Flood Surface 1 17.31 8.61 8.13 31.42 27.66 1.90 2.5 0.296 JSc / M4 20230930 Sunny Moderate Mid-Flood Bottom 3.9 17.30 8.44 8.12 31.42 27.66 1.90 2.5 0.296 JSc /																	
M4 20230930 Sunny Moderate Mid-Flood Surface 1 17:31 8.51 8.13 31.42 27.66 1.90 2.5 0.296 SE / M4 20230930 Sunny Moderate Mid-Flood Bottom 3.9 17:30 8.44 8.12 31.42 27.66 2.00 4 0.270 SE /		20230930	Sunny														
M4 20230930 Sunny Moderate Mid-Flood Bottom 3.9 17:30 8.44 8.12 31.42 27.66 2.00 4 0.270 SE /							4										
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100 100 100 100 100 100 100 100 100 100																	
							3.9	27.50	0.52	0.00		27.00	1.63	4.3	J.2/8	/	



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Location		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 C1	20230905 20230905		Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	14:06 14:06	8.62	8.15	32.14	27.91 27.94	2.85		0.297 E 0.267 E	/
C1		Cloudy Cloudy	Moderate	Mid-Ebb	Middle	11.45	14:05	8.91 8.91	8.11 8.15	32.01 32.31	27.94	2.89		0.273 E	/
C1	20230905	Cloudy	Moderate	Mid-Ebb	Middle	11.45	14:05	8.83	8.14	32.27	27.99	2.93			/
C1 C1		Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Bottom	21.9 21.9	14:04 14:04	8.65 8.64	8.14 8.16	32.18 32.21	28.01 27.92	3.15	2.5	0.265 SE 0.265 SE	/
C2		Cloudy	Moderate	Mid-Ebb	Surface	1	15:04	8.76	8.3	32.8	28.15	2.7	3	0.273 SE	/
C2		Cloudy	Moderate	Mid-Ebb	Surface	1	15:04	8.89	8.29	32.98	28.12	2.82	2.5	0.297 SE	/
C2 C2	20230905 20230905	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Middle	10.6 10.6	15:03 15:03	9.03	8.25 8.26	32.88 32.76	28.14 28.08	2.55	3	0.280 SE 0.292 E	/
C2	20230905		Moderate	Mid-Ebb	Bottom	20.2	15:02	8.86	8.26	33.04	28.18	2.48	3	0.273 SE	/
C2	20230905		Moderate	Mid-Ebb	Bottom	20.2	15:02	9.04	8.29	32.84	28.14	2.64	3	0.287 SE	/
M1 M1	20230905 20230905	Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	14:35 14:35	8.59 8.44	8.25 8.26	32.19 32.28	28.1 28.09	1.93	3	0.270 E 0.290 E	/
M1		Cloudy	Moderate	Mid-Ebb	Middle	3.6	14:34	8.67	8.25	32.54	28.05	1.99	3	0.293 E	Ť/
M1		Cloudy	Moderate	Mid-Ebb	Middle	3.6	14:34	8.45	8.25	32.26	28.12	2.19	2.5	0.284 SE	/
M1 M1	20230905 20230905	Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Bottom	6.2	14:33 14:33	8.44	8.26 8.26	32.41 32.19	28.03 28.06	2.06	2.5	0.265 E 0.267 SE	/
M2	20230905	Cloudy	Moderate	Mid-Ebb	Surface	1	14:23	8.52	8.28	31.79	28.07	1.59	3	0.267 E	1
M2 M2		Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Middle	1 6.95	14:23 14:22	8.55 8.59	8.22 8.26	32.03	28.09 28.04	1.68	3	0.299 SE 0.264 E	/
M2		Cloudy	Moderate	Mid-Ebb	Middle	6.95	14:22	8.65	8.28	32	28.04	1.82	2.5	0.204 E	/
M2	20230905	Cloudy	Moderate	Mid-Ebb	Bottom	12.9	14:21	8.57	8.27	31.83	28.07	1.85	3	0.283 SE	/
M2 M3	20230905 20230905		Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Surface	12.9	14:21 14:46	8.56	8.24 8.26	32.06 31.52	28.05	1.95	2.5	0.275 SE 0.272 E	/
M3		Cloudy Cloudy	Moderate	Mid-Ebb	Surface	1	14:46	8.40	8.28	31.32	28.26	2.35	2.5		/
M3	20230905	Cloudy	Moderate	Mid-Ebb	Middle	3.8	14:45	8.51	8.26	31.66	28.11	2.26	3	0.288 SE	/
M3 M3		Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	3.8	14:45 14:44	8.47	8.24 8.27	31.68 31.9	28.11 28.24	2.27	2.5	0.269 SE 0.279 E	/
M3	20230905	Cloudy	Moderate	Mid-Ebb	Bottom	6.6	14:44	8.79	8.27	31.9	28.24	2.21	3	0.279 E	/
M4	20230905	Cloudy	Moderate	Mid-Ebb	Surface	1	15:32	8.53	8.13	32.62	28.31	2.08	3	0.297 E	/
M4 M4	20230905 20230905	Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Bottom	4.4	15:32 15:31	8.71	8.14 8.15	32.53 32.57	28.33 28.23	1.79	2.5	0.282 SE 0.297 E	/
M4	20230903	Cloudy	Moderate	Mid-Ebb	Bottom	4.4	15:31	8.73	8.13	32.62	28.23	1.87	4	0.279 SE	1
C1	20230907	Sunny	Moderate	Mid-Ebb	Surface	1	8:02	9.1	8.29	33.39	28.08	3.21	3	0.297 E	/
C1 C1	20230907 20230907	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Middle	10.35	8:02 8:01	9.27	8.3 8.32	33.25 33.65	28.11 28.11	3.16	2.5	0.294 E 0.268 E	/
C1	20230907	Sunny	Moderate	Mid-Ebb	Middle	10.35	8:01	9.08	8.32	33.61	28.07	3.24	2.5	0.270 SE	/
C1		Sunny	Moderate	Mid-Ebb	Bottom	19.7	8:00	9.1	8.3	33.41	28.16	3.25	2.5		/
C1 C2	20230907 20230907	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Surface	19.7	8:00	9.09	8.3 8.21	33.28 32.79	28.15 28.23	3.11 2.88	2.5	0.284 E 0.263 E	/
C2	20230907	Sunny	Moderate	Mid-Ebb	Surface	1	8:57	8.98	8.24	33.02	28.26	2.92	2.5	0.292 SE	1
C2		Sunny	Moderate	Mid-Ebb	Middle	12.7	8:56	9.13	8.2	32.64	28.25	2.89	2.5	0.275 E	/
C2 C2	20230907 20230907	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	12.7 24.4	8:56 8:55	8.98 9.05	8.26 8.19	32.67 32.87	28.22 28.23	2.71	2.5	0.276 E 0.267 SE	/
C2	20230907	Sunny	Moderate	Mid-Ebb	Bottom	24.4	8:55	9.12	8.26	32.79	28.19	2.91	2.5	0.267 SE	/
M1 M1	20230907 20230907		Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	8:26 8:26	8.37 8.46	8.29 8.24	32.76	28.23 28.18	2.13			/
M1 M1	20230907 20230907		Moderate	Mid-Ebb	Middle	3.55	8:25	8.46	8.24	32.87 32.87	28.18	2.30	2.5		/
M1	20230907	Sunny	Moderate	Mid-Ebb	Middle	3.55	8:25	8.32	8.23	32.65	28.19	2.24	2.5	0.273 E	/
M1 M1	20230907 20230907		Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Bottom	6.1 6.1	8:24 8:24	8.41 8.39	8.29 8.26	32.75 32.47	28.2	2.24	2.5		/
M2	20230907		Moderate	Mid-Ebb	Surface	0.1	8:15	8.61	8.26	32.47	28.44	1.8		0.289 SE	/
M2	20230907	Sunny	Moderate	Mid-Ebb	Surface	1	8:15	8.68	8.22	32.84	28.36	1.93	3	0.265 E	/
M2 M2	20230907 20230907	Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Middle	6.65 6.65	8:14 8:14	8.58 8.58	8.22 8.27	32.83 32.68	28.42 28.45	1.92	2.5	0.281 E 0.273 E	_/
M2	20230907		Moderate	Mid-Ebb	Bottom	12.3	8:13	8.59	8.26	32.85	28.44	1.84	2.5	0.284 SE	/
M2	20230907		Moderate	Mid-Ebb	Bottom	12.3	8:13	8.47	8.22	32.64	28.45	1.88	2.5	0.301 E	/
M3 M3	20230907 20230907		Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	8:38 8:38	8.43 8.43	8.23 8.23	32.02 32.29	28.2 28.16	2.13	3	0.287 SE 0.284 SE	/
M3		Sunny	Moderate	Mid-Ebb	Middle	3.6	8:37	8.44	8.22	32.04	28.11	1.94	3	0.293 SE	/
M3	20230907	Sunny	Moderate	Mid-Ebb	Middle	3.6	8:37	8.41	8.24	31.86	28.18	2.11	4	0.279 E	/
M3 M3	20230907 20230907	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Bottom	6.2	8:36 8:36	8.38 8.35	8.28 8.26	32.14 32.02	28.14 28.18	2.3	2.5	0.297 SE 0.285 E	/
M4	20230907	Sunny	Moderate	Mid-Ebb	Surface	1	9:28	8.49	8.28	32.32	28.34	2.42	2.5		1
M4	20230907	Sunny	Moderate	Mid-Ebb	Surface	1	9:28	8.38	8.31	32.48	28.3	2.27	2.5	0.285 SE	/
M4 M4		Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Bottom	4.5	9:27 9:27	8.43 8.35	8.28 8.27	32.55 32.44	28.24 28.25	2.29	3	0.299 E 0.271 SE	/
C1	20230909	Cloudy	Moderate	Mid-Ebb	Surface	4.5	8:07	8.62	8.23	32.97	27.34	3.18	3	0.263 E	/
C1	20230909		Moderate Moderate	Mid-Ebb	Surface	9.8	8:07	8.46	8.18	33.18	27.36	3.26	2.5	0.290 E 0.270 E	/
C1 C1	20230909 20230909		Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Middle	9.8	8:06 8:06	8.57 8.59	8.17 8.2	32.94 33.03	27.33 27.38	2.94	2.5		/
C1	20230909	Cloudy	Moderate	Mid-Ebb	Bottom	18.6	8:05	8.47	8.2	32.94	27.33	2.88	2.5	0.297 SE	/
C1 C2	20230909 20230909		Moderate Moderate	Mid-Ebb Mid-Ebb		18.6	8:05 9:15	8.71 8.49	8.22 8.2	32.9 33.24	27.36	3.01 2.47	3	0.278 SE 0.292 E	-/
C2 C2	20230909 20230909		Moderate		Surface	1	9:15	8.49	8.22	33.24	27.47	2.47	2.5		/
C2	20230909	Cloudy	Moderate	Mid-Ebb	Middle	12.4	9:14	8.34	8.17	33.42	27.52	2.61	2.5	0.285 SE	/
C2 C2	20230909 20230909		Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	12.4	9:14 9:13	8.48 8.41	8.23 8.18	33.29 33.4	27.53 27.45	2.49	2.5		/
C2 C2	20230909 20230909		Moderate	Mid-Ebb Mid-Ebb	Bottom	23.8	9:13	8.41	8.18	33.4	27.45	2.63	2.5	0.264 E 0.273 E	/
M1	20230909	Cloudy	Moderate	Mid-Ebb	Surface	1	8:39	8.61	8.23	33.19	27.57	1.55	2.5	0.273 SE	/
M1 M1	20230909 20230909		Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Middle	1 3.45	8:39 8:38	8.47 8.59	8.22 8.2	33.06 33.2	27.6	1.73	2.5	0.286 SE 0.273 E	/
M1 M1	20230909 20230909		Moderate		Middle	3.45	8:38	8.59	8.18	33.04	27.64	2.01	2.5		/
M1	20230909	Cloudy	Moderate	Mid-Ebb	Bottom	5.9	8:37	8.67	8.2	33.02	27.58	1.92	3	0.295 SE	/
M1 M2		Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Surface	5.9	8:37 8:26	8.45 8.94	8.22 8.19	33.06 32.74	27.59	1.94	2.5		/
M2 M2	20230909 20230909		Moderate	Mid-Ebb		1	8:26	8.94	8.19	32.74	27.63	2.10	2.5	0.291 SE	/
M2	20230909	Cloudy	Moderate	Mid-Ebb	Middle	5.85	8:25	9.02	8.2	32.74	27.55	2.17	2.5		/
M2 M2	20230909 20230909		Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	5.85	8:25 8:24	9.16	8.24 8.19	32.75 32.66	27.63 27.62	2.17	2.5	0.283 E 0.291 E	/
M2 M2	20230909 20230909		Moderate	Mid-Ebb Mid-Ebb	Bottom	10.7	8:24	8.98 9.06	8.19	32.66	27.62	2.23	2.5		/
M3	20230909	Cloudy	Moderate	Mid-Ebb	Surface	1	8:52	8.82	8.22	33.02	27.32	2.06	2.5	0.269 SE	/
M3 M3	20230909 20230909		Moderate Moderate	Mid-Ebb Mid-Ebb		1	8:52 8:51	8.7 8.82	8.29 8.22	32.8 33.09	27.37 27.31	2.26	2.5		/
M3 M3	20230909 20230909		Moderate		Middle	3.9	8:51	8.82	8.22	33.09	27.31 27.26	2.34			/
M3	20230909	Cloudy	Moderate	Mid-Ebb	Bottom	6.8	8:50	8.86	8.27	32.81	27.36	2.47	2.5	0.264 E	/
M3 M4	20230909 20230909		Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Surface	6.8	8:50 9:43	8.88 8.44	8.24 8.21	32.96 32.26	27.27	2.2	3 2.5		/
M4 M4	20230909 20230909		Moderate		Surface	1	9:43	8.44	8.21	32.26	27.54	2.07			/
M4	20230909	Cloudy	Moderate	Mid-Ebb	Bottom	4.1	9:42	8.62	8.18	32.37	27.47	2.36	2.5	0.268 SE	/
M4	20230909	Cloudy	Moderate	Mid-Ebb	Bottom	4.1	9:42	8.68	8.18	32.21	27.49	2.52	2.5	0.286 E	/



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	Tomenty														
C1	20230912 Clo		Moderate	Mid-Ebb	Surface	1	9:11	8.73 8.33	32.89	27.61	2.8	2.5	0.291 St	E /	
C1	20230912 Clo		Moderate	Mid-Ebb	Surface	1	9:11	8.79 8.34	33.01	27.63	3.12	2.5	0.271 St	E /	
C1	20230912 Clo		Moderate	Mid-Ebb	Middle	10.15	9:10	8.68 8.32	32.85	27.71	3.16	2.5	0.268 E	/	
C1	20230912 Clo		Moderate	Mid-Ebb	Middle	10.15	9:10	8.74 8.34	32.99	27.65	3.07	2.5	0.292 St	E /	
C1	20230912 Clo		Moderate	Mid-Ebb	Bottom	19.3	9:09	8.66 8.33	32.98	27.6	2.85	3	0.290 St	E /	
C1		loudy	Moderate	Mid-Ebb	Bottom	19.3	9:09	8.55 8.28	32.85	27.71	2.91	2.5	0.267 St	E /	
C2		loudy	Moderate	Mid-Ebb	Surface	1	10:14	8.48 8.31	32.58	27.49	2.67	2.5	0.282 St	E /	
C2		loudy	Moderate	Mid-Ebb	Surface	1	10:14	8.47 8.31	32.42	27.56	2.53	2.5	0.267 E	/	
C2		loudy	Moderate	Mid-Ebb	Middle	11.5	10:13	8.28 8.32	32.67	27.49	2.79	2.5	0.278 SI	Ε /	
C2		loudy	Moderate	Mid-Ebb	Middle	11.5	10:13	8.44 8.28	32.54	27.45	2.67	2.5	0.290 E	/	
C2		loudy	Moderate	Mid-Ebb	Bottom	22	10:12	8.35 8.29	32.37	27.42	2.72	2.5	0.264 E	/	
C2		loudy	Moderate	Mid-Ebb	Bottom	22	10:12	8.3 8.32	32.39	27.5	2.61	2.5	0.296 SI	ε /	
M1		loudy	Moderate	Mid-Ebb	Surface	1	9:38	8.29 8.26	33.34	27.76	1.74	2.5	0.272 SI	ε /	
M1		loudy	Moderate	Mid-Ebb	Surface	1	9:38	8.22 8.27	33.45	27.68	1.8	2.5	0.283 SI	E /	
M1	20230912 Clo		Moderate	Mid-Ebb	Middle	3.7	9:37	8.33 8.35	33.37	27.65	1.66	2.5	0.299 E	/	
M1	20230912 Clo		Moderate	Mid-Ebb	Middle	3.7	9:37	8.31 8.26	33.4	27.65	1.78	2.5	0.284 E	- /	
M1	20230912 Clo		Moderate	Mid-Ebb	Bottom	6.4	9:36	8.3 8.26	33.44	27.71	1.62	2.5	0.274 SE	ε /	
M1	20230912 Cld		Moderate	Mid-Ebb	Bottom	6.4	9:36	8.27 8.34	33.43	27.69	1.92	3	0.296 E	- /	
M2	20230912 Clo		Moderate	Mid-Ebb	Surface	1	9:26	8.58 8.24	33.58	27.56	2.26	2.5	0.298 SI	£ /	
M2 M2	20230912 Clo 20230912 Clo		Moderate	Mid-Ebb Mid-Ebb	Surface Middle	5.8	9:26	8.64 8.21 8.68 8.22	33.39 33.56	27.68	2.29	2.5	0.269 St 0.287 St	٤ /	
M2 M2	20230912 Cld		Moderate Moderate	Mid-Ebb	Middle	5.8	9:25	8.69 8.26	33.50	27.65	2.29	4	0.287 SI 0.285 E	<u> </u>	
M2 M2	20230912 Cld		Moderate	Mid-Ebb	Bottom	5.8	9:25	8.79 8.24	33.4	27.59	2.41	3	0.285 E	r /	
M2 M2		loudy	Moderate	Mid-Ebb	Bottom	10.6	9:24	8.62 8.22	33.35	27.52	2.12	4	0.284 St	r /	
				Mid-Ebb		10.6	9:24	9.07 8.32				3	0.290 St	r /	
M3		loudy	Moderate	Mid-Ebb	Surface	1	9:51		32.67	27.7 27.75	1.8	3	0.287 SE	r /	
M3 M3		loudy loudy	Moderate Moderate	Mid-Ebb	Surface Middle	3.55	9:51	9.07 8.34 9.02 8.34	32.81 32.78	27.75	2.08	3	0.287 St	<u> </u>	
												4		E /	
M3 M3		loudy loudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	3.55	9:50 9:49	9.01 8.32 9.12 8.32	32.81 32.9	27.62 27.63	1.92 1.92	3	0.285 SE 0.273 E	- /	
M3 M3		loudy	Moderate	Mid-Ebb	Bottom	6.1	9:49	9.12 8.32	32.9	27.63	2.15	3	0.273 E	F /	
M4		loudy	Moderate	Mid-Ebb	Surface	1.0	9:49	8.27 8.29	32.69	27.73	2.15	3	0.276 St	- //	
M4				Mid-Ebb	Surface	1	10:42	8.27 8.29	33.47	27.53	2.18	4	0.296 E	F /	
M4 M4		loudy loudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Bottom	4.7	10:42	8.28 8.33	33.42	27.44	2.37	2.5	0.293 St	- /	
M4 M4		loudy	Moderate	Mid-Ebb	Bottom	4.7	10:41	8.24 8.26	33.25	27.30	2.22	2.5	0.285 St	- ,	
C1	20230912 Cld		Moderate	Mid-Ebb	Surface	4./	10:41	8.46 8.19	33.45	27.43	3.26	2.5	0.283 St	- ,	
C1	20230914 Cld		Moderate	Mid-Ebb	Surface	1	10:23	8.63 8.2	33.35	27.46	3.26	2.5	0.279 St	- /	
C1	20230914 Cid		Moderate	Mid-Ebb	Middle	11.65	10:23	8.44 8.19	33.44	27.36	3.08	2.5	0.291 E		
C1	20230914 Cld	,	Moderate	Mid-Ebb	Middle	11.65	10:22	8.45 8.18	33.3	27.43	3.27	2.5	0.291 E	<u>/</u>	
C1	20230914 Cld		Moderate	Mid-Ebb	Bottom	22.3	10:22	8.63 8.16	33.3	27.43	3.12	2.5	0.267 E	/	
C1	20230914 Cld			Mid-Ebb	Bottom	22.3	10:21	8.65 8.17	33.45	27.3	3.19	2.5	0.270 St	e í/	
C2	20230914 Cld			Mid-Ebb	Surface	1	11:20	9.36 8.3	32.05	27.33	2.94	2.5	0.278 E	/	
C2	20230914 Clo		Moderate	Mid-Ebb	Surface	1	11:20	9.45 8.34	32.11	27.34	2.91	2.5	0.277 St	F /	
C2	20230914 Clo		Moderate	Mid-Ebb	Middle	12.1	11:19	9.46 8.3	32.34	27.31	2.75	2.5	0.301 E	/	
C2	20230914 Cld		Moderate	Mid-Ebb	Middle	12.1	11:19	9.48 8.3	32.29	27.39	2.81	2.5	0.279 E	/	
C2	20230914 Cld		Moderate	Mid-Ebb	Bottom	23.2	11:18	9.39 8.38	32.25	27.42	2.69	2.5	0.300 E	/	
C2	20230914 Cld		Moderate	Mid-Ebb	Bottom	23.2	11:18	9.3 8.31	32.07	27.41	2.71	3	0.287 E	/	
M1	20230914 Cld		Moderate	Mid-Ebb	Surface	1	10:52	9.56 8.19	32.97	27.18	1.72	2.5	0.296 St	F /	
M1		loudy	Moderate	Mid-Ebb	Surface	1	10:52	9.63 8.17	32.8	27.29	1.76	2.5	0.266 E	/	
M1		loudy	Moderate	Mid-Ebb	Middle	3.4	10:51	9.58 8.19	32.92	27.22	1.9	2.5	0.284 SE	E /	
M1		loudy	Moderate	Mid-Ebb	Middle	3.4	10:51	9.64 8.24	32.73	27.15	1.99	2.5	0.285 E	/	
M1	20230914 Cld		Moderate	Mid-Ebb	Bottom	5.8	10:50	9.74 8.23	32.69	27.26	1.88	2.5	0.296 E	/	
M1	20230914 Clo		Moderate	Mid-Ebb	Bottom	5.8	10:50	9.56 8.21	32.83	27.27	2.04	2.5	0.288 SI	E /	
M2	20230914 Clo		Moderate	Mid-Ebb	Surface	1	10:39	9.3 8.21	33.06	27.32	2.07	3	0.275 E	/	
M2	20230914 Cld		Moderate	Mid-Ebb	Surface	1	10:39	9.23 8.18	33.02	27.33	2.12	2.5	0.289 E	/	
M2	20230914 Cld		Moderate	Mid-Ebb	Middle	5.8	10:38	9.17 8.17	33.08	27.34	1.87	2.5	0.287 5	E /	
M2	20230914 Clo		Moderate	Mid-Ebb	Middle	5.8	10:38	9.33 8.19	32.9	27.42	2.06	2.5	0.265 SE	E /	
M2	20230914 Clo		Moderate	Mid-Ebb	Bottom	10.6	10:37	9.24 8.17	33.16	27.37	2.2	3	0.270 SE	E /	
M2	20230914 Cld	loudy	Moderate	Mid-Ebb	Bottom	10.6	10:37	9.21 8.2	33.13	27.27	2.18	2.5	0.296 SI	E /	
M3	20230914 Cld	loudy	Moderate	Mid-Ebb	Surface	1	11:03	8.76 8.35	32.54	27.45	1.84	3	0.285 E	/	
M3	20230914 Clo	loudy	Moderate	Mid-Ebb	Surface	1	11:03	8.7 8.37	32.51	27.54	1.96	3	0.288 E	/	
M3	20230914 Clo	loudy	Moderate	Mid-Ebb	Middle	4.05	11:02	8.84 8.34	32.4	27.45	2.01	3	0.271 SE	E /	
M3	20230914 Clo	loudy	Moderate	Mid-Ebb	Middle	4.05	11:02	8.86 8.36	32.34	27.49	1.82	3	0.293 SE	E /	
M3		loudy	Moderate	Mid-Ebb	Bottom	7.1	11:01	8.72 8.34	32.35	27.42		3	0.263 SI	F /	
M3	20230914 Clo		Wouerate						52.55	27.43	1.7	_	0.291 SE	/	
M4	20230914 Clo 20230914 Clo		Moderate	Mid-Ebb	Bottom	7.1	11:01	8.89 8.39	32.35	27.43	1.7	3	0.291 30	,	
		loudy	Moderate	Mid-Ebb Mid-Ebb			11:01 11:47			27.54 27.12		3 2.5	0.291 St	E /	
M4	20230914 Clo	loudy loudy	Moderate					8.89 8.39 8.97 8.36 9.06 8.32	32.36 33.29 33.15	27.54 27.12 27.19	1.83	2.5 2.5	0.279 St 0.264 St	E / E /	
M4 M4	20230914 Clo 20230914 Clo	loudy loudy loudy	Moderate Moderate	Mid-Ebb	Surface	7.1 1 1 3.5	11:47 11:47 11:46	8.89 8.39 8.97 8.36	32.36 33.29 33.15 33.26	27.54 27.12 27.19 27.22	1.83 2.22 2.21 2.36	2.5	0.279 St 0.264 St 0.264 E	E / E /	
M4 M4 M4	20230914 Cld 20230914 Cld 20230914 Cld 20230914 Cld 20230914 Cld 20230914 Cld	loudy loudy loudy loudy loudy	Moderate Moderate Moderate Moderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Surface Surface Bottom Bottom	7.1 1 1	11:47 11:47 11:46 11:46	8.89 8.39 8.97 8.36 9.06 8.32 8.85 8.33 8.95 8.32	32.36 33.29 33.15 33.26 33.25	27.54 27.12 27.19 27.22 27.26	1.83 2.22 2.21 2.36 2.51		0.279 Si 0.264 Si 0.264 E 0.266 E	E / E /	
M4 M4 M4 C1	20230914 Cld 20230914 Cld 20230914 Cld 20230914 Cld 20230914 Cld 20230914 Cld 20230914 Cld 20230916 Cld	loudy loudy loudy loudy loudy loudy	Moderate Moderate Moderate Moderate Moderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Surface Surface Bottom Bottom Surface	7.1 1 1 3.5	11:47 11:47 11:46 11:46 11:31	8.89 8.39 8.97 8.36 9.06 8.32 8.85 8.33 8.95 8.32 8.85 8.33	32.36 33.29 33.15 33.26 33.25 32.52	27.54 27.12 27.19 27.22 27.26 27.58	1.83 2.22 2.21 2.36 2.51 3.15	2.5	0.279 St 0.264 St 0.264 E 0.296 E 0.264 E	E / E /	
M4 M4 C1 C1	20230914 Cld 20230914 Cld 20230914 Cld 20230914 Cld 20230914 Cld 20230914 Cld 20230916 Cld 20230916 Cld	loudy loudy loudy loudy loudy loudy loudy	Moderate Moderate Moderate Moderate Moderate Moderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Surface Surface Bottom Bottom Surface Surface	7.1 1 3.5 3.5 1 1	11:47 11:47 11:46 11:46 11:31 11:31	8.89 8.39 8.97 8.36 9.06 8.32 8.85 8.33 8.95 8.32 8.88 8.33 9 8.3	32.36 33.29 33.15 33.26 33.25 32.52 32.51	27.54 27.12 27.19 27.22 27.26 27.58 27.56	1.83 2.22 2.21 2.36 2.51 3.15 3.05	2.5 3 2.5	0.279 St 0.264 St 0.264 E 0.296 E 0.264 E 0.264 E 0.268 E	E / E /	
M4 M4 C1 C1 C1 C1	20230914 Clc 20230914 Clc 20230914 Clc 20230914 Clc 20230914 Clc 20230914 Clc 20230916 Clc 20230916 Clc 20230916 Clc	loudy loudy loudy loudy loudy loudy loudy loudy	Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Surface Surface Bottom Bottom Surface Surface Middle	7.1 1 3.5 3.5 1 1 10.9	11:47 11:47 11:46 11:46 11:31 11:31 11:31	8.89 8.39 8.97 8.36 9.06 8.32 8.85 8.33 8.95 8.32 8.8 8.33 9 8.3 9 8.3 8.77 8.31	32.36 33.29 33.15 33.26 33.25 32.52 32.52 32.51 32.6	27.54 27.12 27.19 27.22 27.26 27.58 27.56 27.66	1.83 2.22 2.21 2.36 2.51 3.15 3.05 2.88	2.5 3 2.5 3 5 3	0.279 SI 0.264 SI 0.264 E 0.266 E 0.264 E 0.268 E 0.288 E 0.274 E	E / E /	
M4 M4 C1 C1 C1 C1 C1 C1	20230914 Cld 20230914 Cld 20230914 Cld 20230914 Cld 20230914 Cld 20230914 Cld 20230916 Cld 20230916 Cld 20230916 Cld 20230916 Cld	loudy loudy loudy loudy loudy loudy loudy loudy loudy	Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Surface Surface Bottom Bottom Surface Surface Middle Middle	7.1 1 3.5 3.5 1 1 10.9 10.9	11:47 11:47 11:46 11:46 11:31 11:31 11:30 11:30	8.89 8.39 8.97 8.36 9.06 8.32 8.85 8.33 8.95 8.32 8.8 8.33 9 8.3 8.77 8.31 9 8.3	32.36 33.29 33.15 33.26 33.25 32.52 32.51 32.6 32.41	27.54 27.12 27.19 27.22 27.26 27.58 27.56 27.66 27.62	1.83 2.22 2.21 2.36 2.51 3.05 2.88 2.96	2.5 3 2.5 3 5 2.5	0.279 SI 0.264 SI 0.264 E 0.296 E 0.264 E 0.264 E 0.274 E 0.274 E 0.274 E	E / E /	
M4 M4 C1 C1 C1 C1 C1 C1 C1	20230914 Clc 20230914 Clc 20230914 Clc 20230914 Clc 20230914 Clc 20230916 Clc 20230916 Clc 20230916 Clc 20230916 Clc 20230916 Clc 20230916 Clc	loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy	Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Surface Surface Bottom Bottom Surface Surface Middle Bottom	7.1 1 3.5 3.5 1 1 10.9 20.8	11:47 11:46 11:46 11:31 11:31 11:30 11:30 11:29	8.89 8.39 8.97 8.36 9.06 8.32 8.85 8.33 8.95 8.32 8.8 8.33 9 8.3 8.97 8.31 9 8.3 8.77 8.31 9 8.3 8.89 8.33	32.36 33.29 33.15 33.26 33.25 32.52 32.51 32.6 32.41 32.62	27.54 27.12 27.19 27.22 27.26 27.58 27.56 27.66 27.62 27.54	1.83 2.22 2.21 3.36 2.51 3.15 3.05 2.88 2.96 2.93	2.5 3 2.5 3 5 3	0.279 St 0.264 E 0.266 E 0.266 E 0.266 E 0.268 E 0.288 E 0.274 E 0.274 E 0.280 St 0.273 St	E / E /	
M4 M4 C1 C1 C1 C1 C1 C1 C1 C1 C1	20230914 Clc 20230914 Clc 20230914 Clc 20230914 Clc 20230914 Clc 20230916 Clc 20230916 Clc 20230916 Clc 20230916 Clc 20230916 Clc 20230916 Clc 20230916 Clc 20230916 Clc 20230916 Clc	loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy	Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Surface Surface Bottom Bottom Surface Surface Middle Middle Bottom Bottom	7.1 1 3.5 3.5 1 1 10.9 10.9	11:47 11:47 11:46 11:46 11:31 11:31 11:30 11:30 11:29 11:29	8.89 8.39 8.97 8.36 9.06 8.32 8.85 8.33 8.95 8.32 8.85 8.33 9 8.3 8.77 8.31 9 8.3 8.89 8.33 8.89 8.33 8.89 8.33 8.89 8.33 8.89 8.33 8.89 8.33 8.89 8.33 8.9 8.33 8.9 8.33 8.9 8.33 8.9 8.33	32.36 33.29 33.15 33.26 33.25 32.51 32.6 32.41 32.62 32.41	27.54 27.12 27.19 27.22 27.56 27.56 27.66 27.62 27.54 27.55	1.83 2.22 2.21 3.15 3.05 2.88 2.96 2.93 2.93	2.5 3 2.5 3 2.5 2.5 2.5 3	0.279 SI 0.264 SI 0.264 E 0.264 E 0.264 E 0.284 E 0.288 SI 0.274 E 0.280 SI 0.283 SI 0.283 SI 0.283 SI	E / E /	
M4 M4 C1 C1 C1 C1 C1 C1 C1	20230914 Clc 20230914 Clc 20230914 Clc 20230914 Clc 20230914 Clc 20230916 Clc 20230916 Clc 20230916 Clc 20230916 Clc 20230916 Clc 20230916 Clc 20230916 Clc 20230916 Clc	loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy	Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Surface Surface Bottom Bottom Surface Surface Middle Bottom	7.1 1 3.5 3.5 1 1 10.9 20.8	11:47 11:46 11:46 11:31 11:31 11:30 11:30 11:29	8.89 8.39 8.97 8.36 9.06 8.32 8.85 8.33 8.95 8.32 8.8 8.33 9 8.3 8.97 8.31 9 8.3 8.77 8.31 9 8.3 8.89 8.33	32.36 33.29 33.15 33.26 33.25 32.52 32.51 32.6 32.41 32.62	27.54 27.12 27.19 27.22 27.26 27.58 27.56 27.66 27.62 27.54	1.83 2.22 2.21 3.36 2.51 3.15 3.05 2.88 2.96 2.93	2.5 3 2.5 3 5 2.5	0.279 St 0.264 E 0.266 E 0.266 E 0.266 E 0.268 E 0.288 E 0.274 E 0.274 E 0.280 St 0.273 St	E / E /	
M4 M4 C1 C1 C1 C1 C1 C1 C1 C1 C2 C2 C2	20230914 Cic 20230914 Cic 20230914 Cic 20230914 Cic 20230914 Cic 20230916 Cic 20230916 Cic 20230916 Cic 20230916 Cic 20230916 Cic 20230916 Cic 20230916 Cic 20230916 Cic 20230916 Cic	loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy	Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Surface Surface Bottom Bottom Surface Surface Middle Bottom Bottom Surface Surface	7.1 1 3.5 3.5 1 1 10.9 20.8 20.8 20.8 1 1 1 1 1 1 1 1 1 1 1 1 1	11:47 11:47 11:46 11:46 11:31 11:31 11:30 11:30 11:29 11:29 12:31	8.89 8.39 8.97 8.36 9.06 8.32 8.85 8.33 9.9 8.33 8.95 8.32 8.8 8.33 9 8.3 9 8.3 8.77 8.31 9 8.3 8.89 8.33 8.89 8.33 8.99 8.3 8.39 8.33 8.39 8.33 8.39 8.33 8.39 8.33 8.39 8.33 8.39 8.33 8.39 8.33 8.39 8.33 8.39 8.33 8.39 8.33	32.36 33.29 33.15 33.26 32.52 32.51 32.6 32.41 32.62 32.41 32.62 32.47 32.97 32.86	27.54 27.12 27.19 27.22 27.26 27.58 27.56 27.66 27.62 27.54 27.55 27.68 27.68 27.63	1.83 2.22 2.21 3.15 3.05 2.88 2.96 2.93 2.96 2.93 2.96 2.64 2.66	2.5 3 2.5 3 2.5 2.5 3 2.5 3 2.5 3 2.5 3	0 279 St 0 264 St 0 264 St 0 256 E 0 288 E 0 288 E 0 280 St 0 280 St 0 280 St 0 280 St 0 280 St 0 293 St 0 293 St 0 293 St 0 293 St	E / / E / / E / / / / / / / / / / / E / E	
M4 M4 C1 C1 C1 C1 C1 C1 C1 C2 C2 C2 C2	20230914 Clc 20230914 Clc 20230914 Clc 20230914 Clc 20230914 Clc 20230916 Clc	loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy	Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Surface Surface Bottom Bottom Surface Middle Bottom Bottom Surface Surface Middle	7.1 1 3.5 3.5 1 1 1 1 1 0.9 20.8 20.8 1 1 1.5 1.5 1.5 1.5 1.5 1.5 1.	11:47 11:47 11:46 11:46 11:31 11:31 11:30 11:30 11:29 11:29 12:31 12:31	8.89 8.39 8.97 8.36 9.06 8.32 8.85 8.33 8.95 8.32 8.8 8.33 9.9 8.3 8.77 8.31 9 8.33 8.95 8.33 8.99 8.33 8.89 8.33 8.98 8.33 8.99 8.33 8.39 8.33 8.39 8.33 8.32 8.26 8.36 8.32	32.36 33.29 33.15 33.25 32.52 32.51 32.6 32.41 32.6 32.41 32.62 32.47 32.97 32.86 32.82	27.54 27.12 27.19 27.22 27.26 27.58 27.56 27.66 27.62 27.54 27.55 27.68 27.63 27.63	1.83 2.22 2.21 2.36 2.51 3.15 2.88 2.96 2.93 2.96 2.93 2.96 2.66 2.75	2.5 3 2.5 3 2.5 2.5 3 2.5 3 2.5 3 2.5 3 2.5	0.279 St 0.264 St 0.256 E 0.256 E 0.256 E 0.258 E 0.274 E 0.233 St 0.233 St 0.233 St 0.230 St 0.250 St 0.276 E 0.276 E	E / / E / / E / / F / / / / / E / / E / E / E / E / E / E /	
M4 M4 C1 C1 C1 C1 C1 C1 C1 C2 C2 C2 C2	20230914 Cic 20230914 Cic 20230914 Cic 20230914 Cic 20230914 Cic 20230916 Cic	loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy	Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Surface Surface Bottom Bottom Surface Surface Middle Bottom Bottom Surface Surface Middle Middle	7.1 1 1 3.5 3.5 1 1 10.9 20.8 20.8 20.8 1 1 1.5 11.5	11:47 11:47 11:46 11:46 11:31 11:30 11:30 11:30 11:29 11:29 12:31 12:31 12:30	8.89 8.30 8.97 8.36 9.06 8.32 8.85 8.33 8.95 8.32 8.85 8.33 9 8.3 8.97 8.31 9 8.3 8.89 8.33 8.9 8.3 8.9 8.3 8.9 8.3 8.9 8.3 8.39 8.33 8.32 8.28 8.36 8.32 8.48 8.28 8.48 8.28	32.36 33.29 33.15 33.26 32.52 32.51 32.6 32.41 32.62 32.41 32.62 32.47 32.97 32.86 32.82 32.82	27.54 27.12 27.29 27.26 27.56 27.56 27.62 27.54 27.55 27.68 27.63 27.68 27.68 27.68 27.68	1.83 2.22 2.21 3.36 2.51 3.05 2.88 2.96 2.93 2.96 2.64 2.66 2.75 2.68	2.5 3 2.5 3 2.5 2.5 2.5 3 2.5 3 2.5 3 2.5 2.5	0.279 SI 0.264 SI 0.264 E 0.266 E 0.268 E 0.274 E 0.278 SI 0.285 SI 0.285 SI 0.276 E 0.276 E 0.282 SI	E / / E / / E / / F / / / / / / / / / / / / / / E / / E / / E / / E / / E / / / E / / / / /	
M4 M4 M4 C1 C1 C1 C1 C1 C1 C2 C2 C2 C2 C2	20230914 Cic 20230914 Cic 20230914 Cic 20230914 Cic 20230914 Cic 20230916 Cic	loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy	Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Surface Surface Bottom Bottom Surface Middle Bottom Bottom Surface Surface Middle Middle Bottom	7.1 1 1 3.5 3.5 1 1 10.9 20.8 20.8 20.8 1 1 11.5 11.5 22	11:47 11:47 11:46 11:46 11:31 11:30 11:30 11:29 12:31 12:31 12:30 12:30 12:29	8.89 8.39 8.97 8.36 9.06 8.32 8.85 8.33 8.95 8.32 8.85 8.33 9 8.3 8.77 8.31 9 8.33 8.89 8.33 8.89 8.33 8.39 8.33 8.39 8.33 8.32 8.28 8.36 8.32 8.36 8.32 8.36 8.32 8.36 8.32 8.36 8.32 8.36 8.32 8.36 8.32 8.36 8.32 8.36 8.32 8.37 8.29	32.36 33.29 33.15 33.26 33.25 32.52 32.51 32.6 32.41 32.6 32.41 32.62 32.47 32.97 32.86 32.82 32.81 32.81	27.54 27.12 27.19 27.22 27.26 27.56 27.66 27.62 27.54 27.55 27.68 27.63 27.63 27.63 27.63 27.63	1.83 2.22 2.21 3.65 2.51 3.05 2.88 2.96 2.93 2.96 2.64 2.66 2.75 2.66 2.75 2.66 2.77	2.5 3 2.5 3 2.5 2.5 3 2.5 3 2.5 3 2.5 2.5 2.5 2.5	0.279 S 0.264 S 0.264 S 0.256 E 0.288 E 0.288 E 0.274 E 0.274 S 0.273 S 0.273 S 0.220 S 0.275 S 0.220 S 0.275 S 0.277 S 0.277 S	E / / E / / E / / F / / / / / / / / / / / / / / E / / E / / E / / E / / E / / / E / / / / /	
M4 M4 M4 C1 C1 C1 C1 C1 C1 C2 C2 C2 C2 C2 C2 C2 C2	20230914 Cic 20230914 Cic 20230914 Cic 20230914 Cic 20230914 Cic 20230916 Cic	loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy	Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Surface Surface Bottom Bottom Surface Middle Bottom Bottom Surface Surface Middle Middle Bottom Bottom Bottom	7.1 1 1 3.5 3.5 1 1 10.9 20.8 20.8 20.8 1 1 1.5 11.5	11:47 11:47 11:46 11:31 11:31 11:30 11:29 11:29 12:31 12:30 12:30 12:29 12:29	8.89 8.30 8.97 8.32 9.06 8.32 8.85 8.33 9.9 8.3 8.97 8.31 9 8.33 8.87 8.33 8.89 8.33 8.9 8.33 8.9 8.33 8.9 8.33 8.32 8.28 8.33 8.32 8.48 8.32 8.48 8.32 8.41 8.28 8.37 8.29 8.3 8.32 8.4 8.28 8.37 8.29 8.38 8.32	32.36 33.29 33.15 33.26 33.25 32.51 32.51 32.66 32.41 32.62 32.47 32.86 32.82 32.82 32.81 32.88 32.82 32.81 32.82 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.81 32.812	27.54 27.12 27.19 27.22 27.56 27.56 27.56 27.56 27.54 27.55 27.54 27.53 27.54 27.53 27.63 27.63 27.68 27.63 27.68 27.69	183 2.22 2.21 2.36 2.51 3.05 2.88 2.96 2.93 2.96 2.64 2.64 2.66 2.75 2.66 2.72 2.66 2.72 2.87	2.5 3 2.5 3 2.5 2.5 3 2.5 3 2.5 2.5 2.5 2.5 2.5	0.279 S 0.264 S 0.264 S 0.256 E 0.288 E 0.274 E 0.288 S 0.289 S 0.280 S 0.280 S 0.280 S 0.280 S 0.280 S 0.276 E 0.281 S 0.276 S 0.277 S 0.272 S 0.272 S	E / / E / / E / / E / / / / / / E / / E / E	
M4 M4 C1 C1 C1 C1 C1 C1 C2 C2 C2 C2 C2 C2 M1	20230914 Cic 20230914 Cic 20230914 Cic 20230914 Cic 20230914 Cic 20230916 Cic	loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy loudy	Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Surface Surface Bottom Bottom Surface Surface Middle Bottom Bottom Surface Surface Middle Middle Bottom Bottom Bottom Bottom	7.1 1 1 3.5 3.5 1 1 10.9 20.8 20.8 20.8 1 1 11.5 11.5 22	11:47 11:47 11:46 11:46 11:31 11:30 11:30 11:29 11:29 12:31 12:31 12:30 12:29 12:29 12:29 11:57	8.89 8.30 8.97 8.36 9.06 8.32 8.85 8.33 8.95 8.32 8.85 8.33 9 8.3 8.97 8.31 9 8.3 8.99 8.3 8.99 8.3 8.39 8.33 8.39 8.32 8.42 8.32 8.46 8.32 8.47 8.28 8.36 8.32 8.4 8.28 8.36 8.32 8.4 8.28 8.37 8.29 8.3 8.32 8.4 8.28 8.37 8.29 8.3 8.32 9.05 8.31	32.36 33.29 33.15 33.26 33.25 32.52 32.51 32.61 32.62 32.41 32.62 32.41 32.62 32.41 32.62 32.42 32.813	27.54 27.12 27.19 27.22 27.26 27.58 27.66 27.62 27.54 27.63 27.64 27.64 27.64 27.54 27.65 27.64 27.65	1 83 2.22 2.21 3.65 3.05 2.88 2.96 2.64 2.66 2.75 2.66 2.75 2.66 2.772 2.87 2.87 2.88 2.93 2.94 2.93 2.94 2.93 2.94 2.93 2.94 2.93 2.94 2.93 2.94 2.93 2.94 2.93 2.94 2.93 2.94 2.93 2.94 2.93 2.94 2.93 2.94 2.93 2.94 2.93 2.94 2.94 2.93 2.94 2.94 2.94 2.93 2.94 2.94 2.94 2.94 2.94 2.94 2.94 2.94	2.5 3 2.5 3 2.5 2.5 3 2.5 3 2.5 2.5 2.5 2.5 2.5 2.5	0 279 S 0 264 S 0 264 S 0 256 E 0 288 E 0 288 E 0 288 S 0 280 S 0 282 S 0 282 S 0 282 S 0 282 S 0 282 S 0 283 S 0 283 S 0 283 S 0 283 S 0 283 S 0 293 S 0 295	E / / E / / E / / E / / / / / / E / / E / E	
M4 M4 M4 C1 C1 C1 C1 C1 C2 C2 C2 C2 C2 C2 M1 M1	20230914 Cit 20230914 Cit 20230914 Cit 20230914 Cit 20230914 Cit 20230916 Cit 20230016 Cit 20230016 Cit 20230	loudy loudy	Noderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Surface Surface Bottom Bottom Surface Middle Middle Bottom Surface Surface Middle Bottom Bottom Bottom Surface Surface Surface Surface Surface	7.1 1 1 3.55 3.55 1 1 1.09 20.8 20.8 1 1.15 1.15 22 22 22 1 1 1 1 1 1 22 22	11:47 11:47 11:46 11:46 11:31 11:31 11:30 11:29 11:29 12:31 12:30 12:30 12:30 12:30 12:30 12:57 11:57	8.89 8.39 8.97 8.36 9.06 8.32 8.85 8.33 8.95 8.32 8.85 8.33 9 8.3 8.77 8.31 9 8.3 8.89 8.33 8.9 8.3 8.9 8.3 8.39 8.32 8.46 8.28 8.37 8.29 8.3 8.32 9.05 8.31 9.20 8.3	32.36 33.29 33.15 33.25 32.52 32.51 32.62 32.47 32.62 32.47 32.86 32.47 32.86 32.82	27.54 27.12 27.19 27.22 27.26 27.56 27.66 27.55 27.68 27.55 27.68 27.53 27.68 27.68 27.68 27.68 27.68 27.69 27.61 27.61	1 83 2 222 2 21 3 15 3 15 3 05 2 88 2 96 2 .64 2 .66 2 .75 2 .66 2 .75 2 .66 2 .772 2 .87 2 .17 2 .33	2.5 3 2.5 3 2.5 2.5 3 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	0.279 S 0.264 S 0.264 S 0.256 E 0.288 E 0.274 E 0.233 S 0.233 S 0.230 S 0.230 S 0.256 E 0.250 S 0.250 S 0.275 E 0.277 S 0.277 S 0.277 S 0.277 S 0.277 S 0.277 S 0.277 S 0.277 S 0.278 E 0.278 E 0.288 E 0.278 E 0.288 E 0.278 E 0.288 E 0.278 E 0.2	E / / E / / E / / E / / / / / / E / / E / E	
M4 M4 C1 C1 C1 C1 C1 C2 C2 C2 C2 C2 C2 C2 C2 C2 C2 M1 M1	20230914 [Cit 20230914 [Cit 20230914 [Cit 20230914 [Cit 20230914 [Cit 20230916 [Cit 20230016 [Cit 20230016 [Cit 20230016 [Cit 20230016 [Cit 20230016 [Cit 20230016 [Cit 20230016 [Cit 20	loudy loudy	Noderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Surface Surface Bottom Bottom Surface Surface Middle Bottom Bottom Surface Surface Middle Middle Bottom Bottom Surface Surface Middle M	7.1 1 1 3.5 3.5 1 1 1 10.9 20.8 20.8 20.8 20.8 1 1 1.5 22 22 22 22 22 22 22 22 22 2	11:47 11:47 11:46 11:46 11:31 11:31 11:30 11:29 11:29 12:31 12:30 12:30 12:29 12:29 12:29 11:57 11:57	8.89 8.30 8.97 8.36 9.06 8.32 8.85 8.33 8.95 8.32 8.8 8.33 9 8.3 8.97 8.31 9 8.3 8.99 8.3 8.99 8.3 8.39 8.33 8.39 8.32 8.46 8.32 8.47 8.28 8.37 8.29 8.3 8.32 8.4 8.28 8.37 8.29 8.3 8.32 9.05 8.31 9.05 8.31 9.12 8.31 9.13 8.32	32.36 33.29 33.15 32.52 32.52 32.52 32.61 32.62 32.41 32.62 32.47 32.47 32.87 32.82	27.54 27.12 27.22 27.26 27.56 27.56 27.66 27.66 27.63 27.54 27.53 27.53 27.68 27.63 27.63 27.63 27.63 27.63 27.63 27.64 27.55 27.55	1 83 2 22 2.21 2.36 2.51 3.05 2.88 2.96 2.93 2.96 2.66 2.75 2.66 2.72 2.67 2.77 2.17 2.39 2.28	2.55 3 3 3 3 3 3 2.55 2.55 2.55 2.55 2.5	0 279 S 0 264 S 0 264 S 0 256 E 0 256 E 0 288 E 0 280 S 0 283 S 0 287	E / / E / / E / / E / / / / / / E / / E / E	
M4 M4 M4 C1 C1 C1 C1 C1 C2 C2 C2 C2 C2 C2 C2 C2 C2 C2 M1 M1 M1	20220914 Cic 20230914 Cic 20230916 Cic 20230	loudy loudy	Moderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Surface Butform Bottom Bottom Bottom Surface Surface Middle Bottom Bottom Surface Middle Bottom Bottom Bottom Surface Surface Surface Middle Middle Middle Middle	7.1 1 1 3.5 3.5 1 1 1.0 9 20.8 20.8 20.8 1 1 1.5 11.5 222 222 222 1 1 3.65 3.65	11:47 11:46 11:46 11:31 11:31 11:30 11:29 12:31 12:31 12:30 12:29 12:29 12:29 12:29 11:57 11:55 11:55	8.89 8.39 8.97 8.36 9.06 8.32 8.85 8.33 8.95 8.32 8.85 8.33 9 8.3 8.95 8.32 8.8 8.33 8.9 8.33 8.9 8.33 8.39 8.33 8.39 8.33 8.39 8.33 8.39 8.33 8.39 8.33 8.39 8.32 8.4 8.28 8.37 8.29 8.38 8.32 8.9 8.33 9.05 8.31 9.17 8.32 8.9 8.33	32.36 33.29 33.15 33.25 32.51 32.62 32.47 32.62 32.47 32.82	27.54 27.12 27.22 27.26 27.56 27.56 27.56 27.55 27.68 27.63 27.68 27.63 27.63 27.63 27.63 27.63 27.63 27.63 27.63 27.63 27.65 27.55 27.55	1.83 2.22 2.21 2.21 3.15 3.05 2.88 2.96 2.23 2.96 2.64 2.64 2.66 2.75 2.66 2.77 2.66 2.72 2.87 7.2.77 2.89 2.28 2.29 2.28 2.29 2.28 2.29 2.28 2.29 2.29	2.5 3 2.5 3 2.5 2.5 3 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	0.279 S 0.264 S 0.264 S 0.256 E 0.286 E 0.288 E 0.274 E 0.274 S 0.273 S 0.283 S 0.280 S 0.285 S 0.280 S 0.285 S 0.285 S 0.285 S 0.285 S 0.285 S 0.285 S 0.277 S 0.277 S 0.273 S 0.277 S 0.273 S 0.277 S 0.273 S 0.277 S 0.273 S 0.277 S 0.273 S 0.277 S 0.273 S 0.277 S 0.278 E 0.278 E 0.278 E 0.278 E 0.278 E 0.278 E	E / / E / / E / / E / / / / / / E / / E / E	
M4 M4 M4 C1 C1 C1 C1 C1 C2 C2 C2 C2 C2 C2 C2 C2 M1 M1 M1 M1 M1	20230914 Cic 20230914 Cic 20230914 Cic 20230914 Cic 20230914 Cic 20230914 Cic 20230914 Cic 20230916 Cic 20230	loudy loudy	Noderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface Bottom Bottom Surface Surface Surface Middle Bottom Bottom Surface Surface Middle Bottom Surface Surface Surface Middle Bottom Surface Surfac Surfac Surface Surface Surfac Surfac Surface Surfac Surfac Surfac Surfac	7.1 1 1 1 3.5 3.5 1 1 1 10.9 20.8 10.9 20.8 1 1 11.5 222 222 1 1 3.65 3.65 3.65 3.65 3.65 3.65 3.65 3.65 3.65 3.65 3.65 3.65 3.65 3.75	11:47 11:47 11:46 11:31 11:30 11:29 12:29 12:30 12:30 12:29 11:57 11:56 11:55	8.89 8.30 8.97 8.36 9.06 8.32 8.85 8.33 8.95 8.32 8.85 8.33 9 8.3 8.87 8.33 8.89 8.33 8.89 8.33 8.9 8.3 8.9 8.3 8.9 8.3 8.9 8.3 8.39 8.33 8.32 8.28 8.34 8.28 8.37 8.29 8.3 9.05 8.31 9.22 9.05 8.31 9.17 8.32 8.59 8.34 8.59 8.34	32.36 33.29 33.15 33.26 33.25 32.52 32.51 32.62 32.41 32.62 32.41 32.62 32.41 32.62 32.84 32.97 32.86 32.82 32.81 32.84 32.77 32.74 32.85 32.74 32.85 32.77 32.74 32.74 32.74 32.74 32.74 32.74 32.74 32.74 32.74 32.74 32.74 32.74 32.74 32.74 32.74 32.74 32.74 32.85 32.77 32.74 32.74 32.74 32.85 32.77 32.74 32.77 32.78 32.85 32.77 32.74 32.77 32.78 32.88 32.77 32.78 32.88 32.77 32.78 32.88 32.77 32.78 32.88 32.77 32.78 32.88 32.77 32.78 32	27.54 27.12 27.12 27.22 27.26 27.56 27.62 27.62 27.63 27.53 27.53 27.53 27.53 27.53	1 83 2 22 2.21 2.36 2.51 3.05 2.88 2.96 2.93 2.96 2.64 2.66 2.75 2.66 2.75 2.66 2.75 2.27 2.87 2.93 2.99 2.28 2.99 2.28 2.91 2.99 2.28 2.91 2.91 2.91 2.93 2.94 2.93 2.94 2.94 2.94 2.94 2.94 2.94 2.94 2.94	2.55 33 35 2.55 2.55 2.55 2.55 2.55 2.55	0 279 S 0 264 S 0 264 S 0 296 E 0 288 E 0 288 E 0 280 S 0 280 S 0 280 S 0 280 S 0 280 S 0 283 S 0 283 S 0 283 S 0 283 S 0 283 S 0 283 S 0 277 S 0 277 S 0 277 S 0 277 S 0 278 E 0 288 S 0 2	E / / E / / E / / E / / / / / / E / / E / E	
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1 2022023 jumy Moderate Md-Ebb ividele 1 8.02 9.16 8.28 32.97 27.13 2.94 6 0.288 9 (1) 1 20220923 jumy Moderate Md-Ebb ividele 6.4 8.01 9.08 33.03 27.27 2.88 3 0.261 (1) 1 20220923 jumy Moderate Md-Ebb Batom 17.8 8.00 9.22 8.23 33.06 27.27 2.99 4 0.276 E // 1 20230923 jumy Moderate Md-Ebb Surface 1 9.01 9.08 8.23 33.65 27.22 2.69 6 0.276 E // 1 2.0230923 jumy Moderate Md-Ebb Surface 1 9.01 9.18 8.33 33.95 27.21 2.69 6 0.276 C // // // // // 0.276 C // // // // // // // // // // </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>10</td> <td></td> <td>/</td>						4							10		/
11 20230923 Sumy Moderate Mid-Ebb Mid-Ebb Moderate 94 8:01 992 8.22 23 3.08 27.21 2.88 3 0.763 C/ C1 20230923 Sumy Moderate Mid-Ebb Bottom 17.8 8:00 9.922 8.28 33.03 27.27 3.18 5 0.284 §E / C1 20230923 Sumy Moderate Mid-Ebb Bottom 17.8 8:00 9.924 8.26 33.06 27.23 2.99 4 0.274 §E / C2 20230923 Sumy Moderate Mid-Ebb Surface 1 9.01 9.94 8.26 33.06 27.23 2.99 4 0.276 §E / C2 20230923 Sumy Moderate Mid-Ebb Surface 1 9.01 9.91 8.33 33.35 27.21 2.67 3 0.265 §E / / C2 20230923 Sumy Moderate Mid-Ebb Bottom 22.6 8.59 9 8.33 33.81 27.21 2.72 3 0.295 §E						1							5		/
C1 20230923 Sunny Moderate Mid-bb Mid-bb Soltom 718 8:00 9.22 8:33 33.08 27.21 2.88 3 0.263 E ////////////////////////////////////						1							6		/
C1 20220923 Summy Moderate Mid-Ebb Bottom 17.8 8.00 9.22 8.28 33.03 27.27 3.18 5 0.284 §E / C1 20220923 Sumny Moderate Mid-Ebb Bottom 17.8 8.00 9.924 8.26 33.05 27.23 2.99 6 0.264 §E / C2 20220923 Sunny Moderate Mid-Ebb Surface 1 9.01 9.08 8.25 33.85 27.22 2.67 3 0.265 §E / C2 20230923 Sunny Moderate Mid-Ebb Mid-Ebb Midele 12.3 9.00 9.09 8.36 33.85 27.21 2.69 6 0.276 §E / C2 20230923 Sunny Moderate Mid-Ebb Bottom 23.6 8.59 9 8.33 27.21 2.72 3 0.276 §E / / C1 20230923 Sunny Moderate Mid-Ebb Bottom 23.6 8.59 9 8.27 33.81 27.21 2.72 3 0.235 §E / /													3		1/
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C2 2023022 Sumy Moderate Mid-Ebb Surface 1 901 9.25 33.85 27.22 2.66 6 0.266 E / C2 20230223 Sumy Moderate Mid-Ebb Midelb 12.3 9.00 9.09 8.36 33.89 27.21 2.66 6 0.276 E / C2 20230223 Sumy Moderate Mid-Ebb Midule 12.3 9.00 9.01 8.31 33.89 27.21 2.66 6 0.276 E / C2 20230223 Sumy Moderate Mid-Ebb Bottom 23.6 8.59 9 8.27 33.81 27.21 2.77 3 0.295 E / / C1 20230223 Sumy Moderate Mid-Ebb Surface 1 8.28 8.32 8.27 33.81 27.21 2.77 3 0.295 E / / / 1 0.203 Surface 1 8.28 8.32 32.9 27.07 2.56 4	-												5		/
C2 20230223 Sumy Moderate Mid-Ebb Mudate 1 9:01 9:18 33:29 37:22 2:67 3 0:265 F / C2 20230923 Sumy Moderate Mid-Ebb Middle 1:23 9:00 9:00 8:36 33:89 27:25 2:71 3 0.292 E / C2 20230923 Sumy Moderate Mid-Ebb Rotom 23:6 8:59 9 8:3 33:6 27:11 2.89 4 0.276 E / M1 20230923 Sumy Moderate Mid-Ebb Surface 1 8:28 8:24 33:8 72.71 2.43 4 0.277 E / 0.218 E / / 1 20230923 Sumy Moderate Mideb 3:35 8:77 8:41 8:27 3:306 77.14 2.27 3 0.201 S 1 1 20230923 Sumy Moderat	-					1							6		/
C2 2033023 Sumy Moderate Mid-Ebb Bottom 23.6 8.59 9 8.31 33.91 27.72 2.71 3 0.292 E / C2 20230923 Sumy Moderate Mid-Ebb Bottom 23.6 8.59 9 8.21 33.81 27.71 2.72 3 0.275 E / M1 20230923 Sumy Moderate Mid-Ebb Surface 1 8.28 8.49 8.25 32.99 27.15 2.43 4 0.275 E / M1 20230923 Sumy Moderate Mid-Ebb Surface 1 8.28 8.27 33.06 27.14 2.21 3 0.301 SE / / / / / / 0.203 Surface 1 8.28 8.27 33.06 27.14 2.21 3 0.301 SE / / / / / / 0.301 SE / / / / 0.301 SE / / / / <td>C2</td> <td>00000000</td> <td></td> <td></td> <td>e (</td> <td>1</td> <td>0.04</td> <td>9.1</td> <td>0.00</td> <td>00.05</td> <td>07.00</td> <td>0.67</td> <td>3</td> <td>0.005.05</td> <td>/</td>	C2	00000000			e (1	0.04	9.1	0.00	00.05	07.00	0.67	3	0.005.05	/
C2 2023022 Sumy Moderate Mid-Ebb Bottom 23.6 8.59 9 8.3 33.86 27.19 2.89 4 0.270 E / M1 2023023 Sumy Moderate Mid-Ebb Surface 1 8.28 8.49 8.25 32.99 27.15 2.43 4 0.277 SE / M1 2023023 Sumy Moderate Mid-Ebb Surface 1 8.28 8.27 33 27.07 2.56 4 0.283 SE / M1 2023023 Sumy Moderate Mid-Ebb Midule 3.38 8.27 8.31 8.27 3 0.274 2.21 3 0.301 SE / M1 2023023 Sumy Moderate Mid-Ebb Midule 3.35 8.27 8.37 8.23 3.29 27.14 2.51 3 0.294 E / M1 2023023 Sumy Moderate Mid-Ebb	-												6		/
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M1 20230223 Sunny Moderate Mid-Ebb Surface 1 8:28 8:27 33 27:07 2:56 4 0.283 SE / M1 20230923 Sunny Moderate Mid-Ebb Middle 3:35 8:27 8:41 8:27 3:30 27:14 2:27 3 0.301 SE / M1 20230923 Sunny Moderate Mid-Ebb Biddle 3:35 8:27 8:41 8:27 3:30 27:14 2:51 3 0.294 E / M1 20230923 Sunny Moderate Mid-Ebb Bottom 5.7 8:26 8:38 8:22 3:3 27:05 2:25 6 0.285 E / M2 20230923 Sunny Moderate Mid-Ebb Surface 1 8:17 8:74 8:34 3:00 27:24 2:16 4 0.290 E / / M2 20230923 Sunny Moderate Mid-Ebb Midele 6:8 8:16 8:75 8:3						23.6		9					3		/
M1 20230223 Sumy Moderate Mid-Eb Middle 3.35 8.27 8.44 8.27 3.306 27.14 2.27 3 0.011 St. / M1 2023023 Sumy Moderate Mid-Eb Miderate 3.35 8.27 8.81 8.27 3.29 27.14 2.51 3 0.204 E / M1 20230923 Sumy Moderate Mid-Eb Bottom 5.7 8.26 8.28 8.22 33 27.09 2.06 7 0.278 E / M1 20230923 Sumy Moderate Mid-Eb Bottom 5.7 8.26 8.28 3.29 27.05 2.25 6 0.285 / / M2 20230923 Sumy Moderate Mid-Eb Surface 1 8.17 8.27 3.29 27.19 2.20 5 0.300 E / / M2 20230923 Sumy Mo						1							4		/
M1 20230223 Sunny Moderate Mid-Ebb Middle 3.35 8.27 8.37 8.22 32.93 27.14 2.51 3 0.294 E / M1 20230923 Sunny Moderate Mid-Ebb Bottom 5.7 8.26 8.22 33 27.09 2.06 7 0.278 SE / M2 20230923 Sunny Moderate Mid-Ebb Surface 1 8.17 8.74 8.34 33.01 27.76 2.25 6 0.228 E / M2 20230923 Sunny Moderate Mid-Ebb Surface 1 8.17 8.71 8.24 33.01 27.74 2.16 4 0.290 E / / M2 20230923 Sunny Moderate Mid-Ebb Middle 6.8 8.16 8.78 3.21 2.94 2.72 2.09 3 0.268 SE / M2 20230923 Sunny Moderate Mid-Ebb Bottom 1.26 8.15 8.67 8.32						2 25							4		/
M1 20230223 Sumy Moderate Mid-Ebb Bottom 5.7 8.76 8.28 8.22 33 27.09 2.06 7 0.278 SE / M1 20230923 Sumy Moderate Mid-Ebb Bottom 5.7 8.26 8.23 32.29 27.05 2.25 6 0.285 E / M2 20230923 Sumy Moderate Mid-Ebb Surface 1 8.17 8.74 8.34 33.01 27.24 2.16 4 0.290 E / M2 20230923 Sumy Moderate Mid-Ebb Surface 1 8.17 8.71 8.27 32.94 27.23 2.01 4 0.200 E / M2 20230923 Sumy Moderate Mid-Ebb Midele 6.8 8.16 8.37 32.06 27.74 2.09 3 0.266 E / M2 20230923 Sumy Moderate Mid-Ebb </td <td></td> <td>3</td> <td></td> <td>1/</td>													3		1/
M1 20230923 Sunny Moderate Mid-Ebb Bottom 5.7 8.26 8.53 8.23 32.99 27.05 2.25 6 0.285 E / M2 20230923 Sunny Moderate Mid-Ebb Surface 1 8.17 8.74 8.34 33.01 27.24 2.16 4 0.292 E / M2 20230923 Sunny Moderate Mid-Ebb Surface 1 8.17 8.71 8.27 3.204 27.23 2.01 4 0.290 SE / M2 20230923 Sunny Moderate Mid-Ebb Midde 6.8 8.16 8.75 8.32 3.2.94 27.21 2.09 3 0.268 SE / M2 20230923 Sunny Moderate Mid-Ebb Bottom 12.6 8.15 8.67 8.32 32.94 27.22 2.59 5 0.273 SE / M2 20230923 Sunny Moderate Mid-Ebb Bottom 12.6 8.15 8.67 8													7		1/
N2 20230223 Summy Moderate Mid-Ebb Surface 1 8:17 8:74 8.34 33.01 27.24 2.16 4 0.290 E / M2 20230923 Summy Moderate Mid-Ebb Surface 1 8:17 8.71 8.27 32.94 27.23 2.01 4 0.290 E / M2 20230923 Summy Moderate Mid-Ebb Middle 6.8 8:16 8.75 8.32 32.96 27.19 2.29 5 0.300 E / M2 20230923 Summy Moderate Mid-Ebb Biddle 6.8 8:16 8.75 8.32 32.94 27.22 2.59 5 0.273 E / M2 20230923 Summy Moderate Mid-Ebb Bottom 12.6 8:15 8.64 8.3 3.00 277.22 2.39 4 0.266 E / / / / / / / 0.266 E													6		/
M2 20230223 Sumy Moderate Mid-Ebb Surface 1 8:17 8:71 8:27 3:24 27.23 2.01 4 0.290 SE / M2 2023023 Sumy Moderate Mid-Ebb Mide 6.8 8:16 8:71 8:27 3:246 27.19 2.20 5 0.300 E / M2 2023023 Sumy Moderate Mid-Ebb Mide 6.8 8:16 8:84 8:3 33.06 27.24 2.06 3 0.268 SE / M2 2023023 Sumy Moderate Mid-Ebb Bottom 1.2.6 8:15 8.67 8:32 32.24 27.22 2.59 5 0.273 SE / M3 2023023 Sumy Moderate Mid-Ebb Bottom 1.2.6 8:15 8.64 8:3 301 27.23 2.39 4 0.264 SE / M3 2023023 Sumy Moderate Mi						1							4		/
N2 20230223 Summy Moderate Mid-Ebb Middle 6.8 8.16 8.34 8.3 33.06 27.24 2.09 3 0.268 Jsc. / M2 20230923 Summy Moderate Mid-Ebb Bottom 12.6 8.15 8.67 8.20 27.22 2.59 5 0.273 Jsc. / M3 20230923 Summy Moderate Mid-Ebb Bottom 12.6 8.15 8.64 8.3 33.01 27.23 2.39 4 0.264 Jsc. / M3 20230923 Summy Moderate Mid-Ebb Surface 1 8.39 8.57 8.19 33.39 27.02 2.35 3 0.266 Jsc. / M3 20230923 Summy Moderate Mid-Ebb Surface 1 8.39 8.57 8.19 3.33 2.63 2.02 4 0.293 Jsc. / 0.266 Jsc. / / M3 20230923 Summy Moderate Mid-Ebb Midele 3.4 8	M2	20230923 Sunny	ny Modera	ite Mid-Ebb		1	8:17	8.71	8.27	32.94	27.23	2.01	4	4 0.290 SE	/
N2 2023023 Sunny Moderate Mid-Ebb Bottom 12.6 8.15 8.67 8.32 22.49 27.22 2.59 5 0.273 Jsc / M2 2023023 Sunny Moderate Mid-Ebb Bottom 12.6 8:15 8.64 8.3 33.01 27.23 2.39 4 0.264 Sc / M3 2023023 Sunny Moderate Mid-Ebb Surface 1 8.39 8.53 8.19 33.39 27.02 2.35 3 0.265 E / M3 2023023 Sunny Moderate Mid-Ebb Surface 1 8.39 8.57 8.16 33.45 2.693 2.02 4 0.265 E / M3 2023023 Sunny Moderate Mid-Ebb Midele 3.4 8.38 8.69 8.16 33.4 2.708 2.4 6 0.276 SE / M3 2023023 Sunny Moderate Mid-Ebb Bottom 5.8 8.37 8.69 <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>5</td><td></td><td>/</td></t<>													5		/
N2 20230223 Summy Moderate Mid-Ebb Bottom 12.6 81.5 8.64 8.3 33.01 27.23 2.39 4 0.266 Isc / M3 20230223 Summy Moderate Mid-Ebb Surface 1 8.39 8.51 8.19 33.39 27.02 2.35 3 0.265 E / M3 20230223 Summy Moderate Mid-Ebb Surface 1 8.39 8.57 8.16 33.45 2.633 2.02 4 0.231 E / M3 20230223 Summy Moderate Mid-Ebb Midule 3.4 8.88 8.71 8.19 3.37 2.693 2.15 3 0.266 Isc / M3 20230223 Summy Moderate Midule 3.4 8.88 8.71 8.19 3.34 2.768 2.4 6 0.276 Isc / M3 20230223 Summy Moderate Midule 5.8 8.37 8.69 8.11 3.3.4 2.708													3		/
M3 20230223 Sunny Moderate Mid-Ebb Surface 1 8:39 8:53 8:19 33.39 27.02 2.35 3 0.265 E / M3 2023023 Sunny Moderate Mid-Ebb Surface 1 8:39 8.57 8.16 33.45 26.93 2.02 4 0.238 E / M3 20230232 Sunny Moderate Mid-Ebb Middle 3.4 8.38 8.71 8.16 33.45 26.93 2.02 4 0.238 E / M3 2023023 Sunny Moderate Mid-Ebb Middle 3.4 8.88 8.69 8.16 33.4 27.09 2.47 6 0.276 5E / M3 2023023 Sunny Moderate Mid-Ebb Bottom 5.8 8.37 8.69 8.21 3.4 27.09 2.27 4 0.266 5E / M3 2023023 Sunny Moderate Mid-Ebb Surface <													5		/
M3 20230223 Sunny Moderate Mid-Ebb Surface 1 8:39 8:57 8:16 33.45 26:93 2.02 4 0.298 [E / M3 20230223 Sunny Moderate Mid-Ebb Midelbe 3.4 8:78 8:16 33.45 26:93 2.02 4 0.298 [E / M3 20230223 Sunny Moderate Mid-Ebb Midelbe 3.4 8:88 8:71 8:19 33.37 26:93 2.15 3 0.268 SE / M3 20230223 Sunny Moderate Mid-Ebb Bittom 5.8 8:77 8:69 8:10 33.4 27.09 2.27 4 0.286 SE / M3 20230223 Sunny Moderate Mid-Ebb Bottom 5.8 8:37 8:69 8:10 33.47 27.06 2.45 0.296 [E / M4 20230223 Sunny Moderate Mid-Ebb Surface 1 9:26 8:56 8:19 34.06 27.						12.6							4		/
M3 20230923 Sunny Moderate Mid-Ebb Middle 3.4 8:38 8.71 8.19 33.37 26.93 2.15 3 0.268 SE / M3 20230923 Sunny Moderate Mid-Ebb Middle 3.4 8:38 8.69 8.16 33.4 27.08 2.4 6 0.276 SE / M3 20230923 Sunny Moderate Mid-Ebb Bottom 5.8 8.37 8.69 8.16 33.4 27.09 2.27 4 0.266 SE / M3 20230923 Sunny Moderate Mid-Ebb Bottom 5.8 8.37 8.65 8.16 33.4 7.70 2.27 4 0.266 E / M4 20230923 Sunny Moderate Mid-Ebb Surface 1 9.26 8.21 33.47 27.06 2.45 3 0.296 E / M4 20230923 Sunny Moderate Mid-Ebb Surface 1 9.26 8.43 8.19 3.406 </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>						1							3		/
M3 2023023 Sunny Moderate Mid-Ebb Midle 3.4 8.86 8.16 3.3.4 27.08 2.4 6 0.276 [St. / M3 2023023 Sunny Moderate Mid-Ebb Bottom 5.8 8.37 8.69 8.21 3.3.4 27.09 2.27 4 0.286 [St. / M3 2023023 Sunny Moderate Mid-Ebb Bottom 5.8 8.37 8.69 8.21 3.3.4 27.09 2.27 4 0.286 [St. / M4 2023023 Sunny Moderate Mid-Ebb Surface 1 9.26 8.56 8.19 3.4.06 27.14 2.52 3 0.276 [E / M4 2023023 Sunny Moderate Mid-Ebb Surface 1 9.26 8.43 8.2 33.95 27.14 2.52 3 0.276 [E / M4 2023023 Sunny Moderate Mid-Ebb Surface 1 9.26 8.43 8.2 33.95						1							4		1/
M3 20230223 Sumy Moderate Mid-Ebb Bottom 5.8 8.73 8.69 8.21 3.3.4 27.09 2.27 4 0.286 Jsc / M3 20230223 Sumy Moderate Mid-Ebb Bottom 5.8 8.37 8.66 8.11 3.3.4 27.06 2.27 4 0.286 Jsc / M4 202302323 Sumy Moderate Mid-Ebb Surface 1 9.26 8.56 8.19 34.06 27.14 2.52 3 0.276 E / M4 20230923 Sumy Moderate Mid-Ebb Surface 1 9.26 8.43 8.2 33.55 27.18 2.15 4 0.288 Jc / / M4 20230923 Sumy Moderate Mid-Ebb Bottom 3.8 9.25 8.44 8.17 3.46 2.72 1.99 4 0.239 Jc / / / / / / / / / / / /		20230923 Sunny	v Modera										3		/
M3 20230923 Sunny Moderate Mid-Ebb Bottom 5.8 8:37 8.65 8.16 33.47 27.06 2.45 3 0.296 E / M4 20230923 Sunny Moderate Mid-Ebb Surface 1 9:26 8.45 8.19 34.06 27.14 2.52 3 0.276 E / M4 20230923 Sunny Moderate Mid-Ebb Surface 1 9:26 8.43 8.21 33.95 27.18 2.15 4 0.281 [/ M4 20230923 Sunny Moderate Mid-Ebb Bottom 3.8 9:25 8.44 8.17 34.06 27.23 1.99 4 0.279 SE /		20230923 3000	v Modera										/		1/
M4 20230923 Sunny Moderate Mid-Ebb Surface 1 9:26 8:56 8:19 34.06 27.14 2.52 3 0.276 E / M4 20230923 Sunny Moderate Mid-Ebb Surface 1 9:26 8:43 8:2 33.95 27.18 2.15 4 0.283 E / M4 20230923 Sunny Moderate Mid-Ebb Bottom 3.8 9:25 8:44 8.17 3:466 27.23 1.99 4 0.279 E /													3		Í/
M4 20230923 [sunny Moderate Mid-Ebb Surface 1 9:26 8:43 8:2 33.95 27.18 2.15 4 0.283 E / M4 20230923 [sunny Moderate Mid-Ebb Bottom 3.8 9:25 8:44 8:17 34.06 27.23 1.99 4 0.279 SE /						1							3		/
	M4			ite Mid-Ebb	Surface	1	9:26			33.95	27.18	2.15	4		/
M4 20230923]Sunny Moderate Mid-Ebb Bottom 3.8 9:25 8.53 8.17 34.01 27.15 2.14 3 0.286 SE /													4		/
	M4	20230923 Sunny	ny Modera	te Mid-Ebb	Bottom	3.8	9:25	8.53	8.17	34.01	27.15	2.14	3	0.286 SE	/

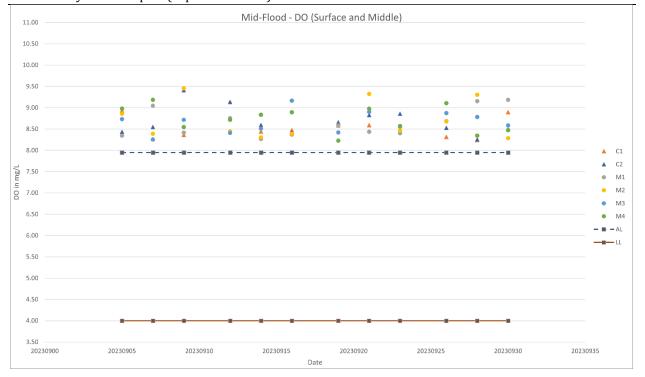


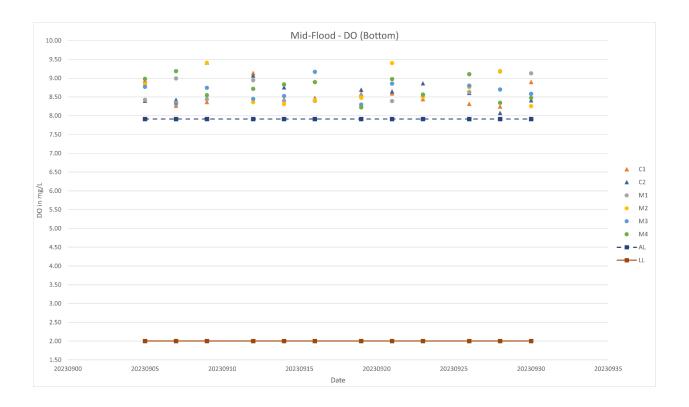
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C1	20230926 Sunny	Moderate	Mid-Ebb		1	8:02	9.02 8.28	33.63	28.26	3.15 4	0.273 SE	/
C1	20230926 Sunny	Moderate	Mid-Ebb		1	8:02	9.21 8.34	33.74	28.27	3.17 3	0.264 SE	/
C1	20230926 Sunny	Moderate	Mid-Ebb	Middle	9.4	8:01	8.99 8.34	33.61	28.26	3.03 4	0.268 E	/
C1	20230926 Sunny	Moderate	Mid-Ebb	Middle	9.4	8:01	8.98 8.27	33.5	28.32	3.06 2.5	0.279 SE	/
C1	20230926 Sunny	Moderate	Mid-Ebb	Bottom	17.8	8:00	9.22 8.28	33.72	28.21	3.33 3	0.292 E	/
C1	20230926 Sunny	Moderate	Mid-Ebb	Bottom	17.8	8:00	9.2 8.27	33.58	28.3	3.27 3	0.276 SE	/
C2	20230926 Sunny	Moderate	Mid-Ebb	Surface	1	9:01	9.13 8.11	32.85	28.21	3.14 3	0.275 SE	/
C2	20230926 Sunny	Moderate	Mid-Ebb	Surface	1	9:01	9.02 8.13	32.72	28.22	2.87 4	0.276 SE	/
C2	20230926 Sunny	Moderate	Mid-Ebb	Middle	10.55	9:00	9.07 8.13	32.83	28.14	2.95 3	0.265 E	/
C2	20230926 Sunny	Moderate	Mid-Ebb	Middle	10.55	9:00	9.12 8.18	32.82	28.15	3.12 4	0.272 SE	/
C2	20230926 Sunny	Moderate	Mid-Ebb	Bottom	20.1	8:59	9.1 8.12	32.65	28.21	2.9 3	0.301 SE	/
C2	20230926 Sunny	Moderate	Mid-Ebb	Bottom	20.1	8:59	9.24 8.19	32.84	28.17	2.82 5	0.292 SE	/
M1	20230926 Sunny	Moderate	Mid-Ebb	Surface	1	8:28	9.05 8.19	32.97	28.22	2.06 6	0.279 SE	/
M1	20230926 Sunny	Moderate	Mid-Ebb	Surface	3.4	8:28	9.14 8.27	32.98	28.12	2.2 3	0.292 SE	/
M1	20230926 Sunny	Moderate	Mid-Ebb			8:27	9.13 8.18	33.1	28.12		0.287 E	/
M1	20230926 Sunny	Moderate	Mid-Ebb		3.4	8:27	9.17 8.18	33.12	28.11	2.24 3	0.298 E	/
M1	20230926 Sunny	Moderate	Mid-Ebb	Bottom	5.8	8:26	9.02 8.18	33.2	28.12	1.97 3	0.301 SE	/
M1	20230926 Sunny	Moderate	Mid-Ebb	Bottom	5.8	8:26	8.9 8.19	33.11	28.13	2.25 3	0.296 E	/
M2 M2	20230926 Sunny	Moderate	Mid-Ebb	Surface	1	8:16	8.62 8.16 8.38 8.25	32.68	28.11	2.32 3 2.49 4	0.295 E	/
M2 M2	20230926 Sunny 20230926 Sunny	Moderate	Mid-Ebb Mid-Ebb	Surface Middle	6,95	8:16 8:15	8.38 8.25 8.5 8.18	32.59	28.19 28.18	2.49 4	0.292 SE 0.278 SE	/
M2	20230926 Sunny	Moderate	Mid-Ebb	Middle	6.95	8:15	8.49 8.25	32.63	28.17	2.01 3	0.268 SE	/
M2	20230926 Sunny	Moderate	Mid-Ebb	Bottom	12.9	8:14	8.34 8.24	32.03	28.17	2.23 3	0.208 SE	/
M2	20230926 Sunny	Moderate	Mid-Ebb	Bottom	12.9	8:14	8.38 8.22	32.34	28.11	2.1 0	0.282 E	/
M3	20230926 Sunny	Moderate	Mid-Ebb	Surface	12.5	8:41	8.71 8.33	32.40	28.06	2.10 3	0.292 E	/
M3	20230926 Sunny	Moderate	Mid-Ebb	Surface	1	8:41	8.7 8.33	32.32	28.00	2.28 4	0.292 SE	/
M3	20230926 Sunny	Moderate	Mid-Ebb	Middle	4.05	8:40	8.7 8.37	32.47	27.97	2.25 4	0.298 E	/
M3	20230926 Sunny	Moderate	Mid-Ebb	Middle	4.05	8:40	8.93 8.37	32.54	28.01	2.37 4	0.272 SE	/
M3	20230926 Sunny	Moderate	Mid-Ebb	Bottom	4.03	8:39	8.78 8.36	32.57	28.01	2.5 3	0.296 SE	ľ/
M3	20230926 Sunny	Moderate	Mid-Ebb	Bottom	7.1	8:39	8.96 8.35	32.36	27.58	2.5 3	0.276 SE	ľ/
M4	20230926 Sunny	Moderate	Mid-Ebb	Surface	1	9:28	8.5 8.34	32.30	28.11	2.55 3	0.270 SE	ĺ/
M4	20230926 Sunny	Moderate	Mid-Ebb	Surface	1	9:28	8.24 8.36	32.39	28.21	2.55 5	0.271 SE	ľ/
M4	20230926 Sunny	Moderate	Mid-Ebb	Bottom	4.3	9:27	8.27 8.37	32.33	28.15	2.30 3	0.270 SE	ľ/
M4	20230926 Sunny	Moderate	Mid-Ebb	Bottom	4.3	9:27	8.51 8.38	32.32	28.2	2.66 3	0.292 E	/
C1	20230928 Sunny	Moderate	Mid-Ebb	Surface		9:30	8.72 8.25	33.07	28.32	2.89 2.5	0.263 E	Ĭ/
C1	20230928 Sunny	Moderate	Mid-Ebb	Surface	1	9:30	8.63 8.22	33.03	28.26	3.12 3	0.285 SE	ľ/
C1	20230928 Sunny	Moderate	Mid-Ebb	Middle	10.4	9:29	8.78 8.29	33.15	28.28	2.88 3	0.292 SE	ĺ/
C1	20230928 Sunny	Moderate	Mid-Ebb	Middle	10.4	9:29	8.74 8.21	33.07	28.31	2.9 2.5	0.298 SE	í,
C1	20230928 Sunny	Moderate	Mid-Ebb	Bottom	10.4	9:28	8.81 8.28	33	28.25	3.11 5	0.298 SE	ĺ/
C1	20230928 Sunny	Moderate	Mid-Ebb	Bottom	19.8	9:28	8.86 8.24	33.1	28.32	3.04 3	0.284 SE	/
C2	20230928 Sunny	Moderate	Mid-Ebb	Surface	1	10:34	8.93 8.22	34.01	28.39	2.64 3	0.286 E	/
C2	20230928 Sunny	Moderate	Mid-Ebb	Surface	1	10:34	9.11 8.18	33.85	28.39	2.87 4	0.299 SE	í/
C2	20230928 Sunny	Moderate	Mid-Ebb	Middle	11.4	10:33	9.01 8.19	34.03	28.32	2.56 3	0.297 SE	/
C2	20230928 Sunny	Moderate	Mid-Ebb	Middle	11.4	10:33	8.83 8.18	34.04	28.39	2.77 3	0.294 SE	/
C2	20230928 Sunny	Moderate	Mid-Ebb	Bottom	21.8	10:32	9.11 8.25	33.93	28.39	2.74 3	0.278 SE	/
C2	20230928 Sunny	Moderate	Mid-Ebb	Bottom	21.8	10:32	9.04 8.23	33.94	28.4	2.62 2.5	0.299 E	/
M1	20230928 Sunny	Moderate	Mid-Ebb	Surface	1	10:01	8.91 8.39	33.77	28.06	1.82 3	0.275 SE	/
M1	20230928 Sunny	Moderate	Mid-Ebb	Surface	1	10:01	9.02 8.38	33.64	28.04	1.95 4	0.279 E	/
M1	20230928 Sunny	Moderate	Mid-Ebb	Middle	3.55	10:00	9.22 8.44	33.84	28.04	2.32 2.5	0.283 E	/
M1	20230928 Sunny	Moderate	Mid-Ebb	Middle	3.55	10:00	8.97 8.41	33.86	27.99	2.06 3	0.299 SE	/
M1	20230928 Sunny	Moderate	Mid-Ebb	Bottom	6.1	9:59	8.95 8.43	33.8	28.1	1.73 3	0.282 SE	/
M1	20230928 Sunny	Moderate	Mid-Ebb	Bottom	6.1	9:59	9.17 8.38	33.66	28.04	1.92 3	0.268 E	/
M2	20230928 Sunny	Moderate	Mid-Ebb	Surface	1	9:46	8.97 8.3	33.58	28.38	2.08 3	0.263 SE	/
M2	20230928 Sunny	Moderate	Mid-Ebb	Surface	1	9:46	9.16 8.37	33.4	28.33	2.2 2.5	0.273 SE	/
M2	20230928 Sunny	Moderate	Mid-Ebb	Middle	6	9:45	9.15 8.32	33.56	28.32	2.13 3	0.271 E	/
M2	20230928 Sunny	Moderate	Mid-Ebb	Middle	6	9:45	8.92 8.32	33.33	28.28	2.4 3	0.280 SE	/
M2	20230928 Sunny	Moderate	Mid-Ebb	Bottom	11	9:44	8.93 8.3	33.35	28.31	1.94 4	0.269 SE	/
M2	20230928 Sunny	Moderate	Mid-Ebb	Bottom	11	9:44	9.14 8.36	33.56	28.29	2.21 3	0.271 E	/
M3	20230928 Sunny	Moderate	Mid-Ebb	Surface	1	10:13	8.26 8.43	32.82	28.12	1.98 4	0.301 E	/
M3	20230928 Sunny	Moderate	Mid-Ebb	Surface	1	10:13	8.18 8.4	32.88	28.15	2.02 4	0.271 SE	/
M3	20230928 Sunny	Moderate	Mid-Ebb	Middle	3.25	10:12	8.05 8.43	32.71	28.2	2.13 4	0.298 SE	/
M3	20230928 Sunny	Moderate	Mid-Ebb	Middle	3.25	10:12	8 8.39	32.9	28.16	2.2 3	0.279 SE	/
M3	20230928 Sunny	Moderate	Mid-Ebb	Bottom	5.5	10:11	8.06 8.44	32.72	28.2	2.17 2.5	0.296 SE	/
M3	20230928 Sunny	Moderate	Mid-Ebb	Bottom	5.5	10:11	8.31 8.39	32.72	28.2	2.33 3	0.281 E	/
M4	20230928 Sunny	Moderate	Mid-Ebb	Surface	1	11:01	8.63 8.44	32.9	28.45	2.11 3	0.263 SE	/
M4	20230928 Sunny	Moderate	Mid-Ebb	Surface	1	11:01	8.73 8.39	32.87	28.52	2.24 4	0.275 SE	/
M4	20230928 Sunny	Moderate	Mid-Ebb	Bottom	4.5	11:00	8.63 8.42	32.84	28.5	2.06 2.5	0.279 SE	/
M4	20230928 Sunny	Moderate	Mid-Ebb	Bottom	4.5	11:00	8.79 8.43	32.75	28.5	1.88 3	0.269 SE	/
C1	20230930 Sunny	Moderate	Mid-Ebb	Surface	1	11:01	8.61 8.11	31.81	27.57	2.83 3	0.299 E	/
C1	20230930 Sunny	Moderate	Mid-Ebb	Surface	1	11:01	8.55 8.13	31.86	27.56	2.9 2.5	0.269 E	/
C1	20230930 Sunny	Moderate	Mid-Ebb	Middle	10.2	11:00	8.68 8.13	31.92	27.58	3.1 5	0.291 SE	/
C1	20230930 Sunny	Moderate	Mid-Ebb	Middle	10.2	11:00	8.65 8.14	31.89	27.53	3.3 3	0.286 SE	/
C1	20230930 Sunny	Moderate	Mid-Ebb	Bottom	19.4	10:59	8.65 8.16	31.83	27.55	3.08 2.5	0.299 E	ľ,
C1	20230930 Sunny	Moderate	Mid-Ebb	Bottom	19.4	10:59	8.75 8.15	31.84	27.58	3.16 2.5	0.294 E	ľ,
C2	20230930 Sunny	Moderate	Mid-Ebb	Surface	1	12:12	8.51 8.37	31.55	27.57	2.55 3	0.269 E	/
C2	20230930 Sunny	Moderate	Mid-Ebb	Surface	1	12:12	8.4 8.37	31.56	27.56	2.75 2.5	U.285 E	ľ,
C2	20230930 Sunny	Moderate		Middle	11.15	12:11	8.34 8.37	31.56	27.53	2.83 2.5	0.291 SE	ľ,
C2	20230930 Sunny	Moderate		Middle	11.15	12:11	8.34 8.36	31.64	27.51	2.87 2.5	0.280 E	/
C2	20230930 Sunny	Moderate	Mid-Ebb		21.3	12:10	8.48 8.36	31.67	27.51	2.5 2.5	0.297 E	ľ,
C2	20230930 Sunny 20230930 Sunny	Moderate	Mid-Ebb	Bottom	21.3	12:10 11:34	8.45 8.32	31.64 32.05	27.56	2.78 3 2.08 2.5	0.293 E	ľ,
M1 M1	20230930 Sunny 20230930 Sunny	Moderate	Mid-Ebb Mid-Ebb		1	11:34 11:34	8.34 8.15 8.52 8.18	32.05	27.74 27.69	2.08 2.5 2.23 2.5	0.265 SE 0.286 SE	/
M1 M1		iviouerate			1	11:34	8.52 8.18	32.03	27.69	2.23 2.5	0.286 SE	<i>'</i> ,
		Moderato	Mid Chi-			11:33	0.30 8.1/		27.08	1.70 2.5	0.298 SE	1/
	20230930 Sunny	Moderate	Mid-Ebb Mid-Ebb		3.55	11.22	9 51 0 45	22.04	27.00	107 3	0 260 65	/
M1	20230930 Sunny 20230930 Sunny	Moderate	Mid-Ebb	Middle	3.55	11:33	8.51 8.15	32.04	27.69	1.97 3	0.268 SE	/
M1	20230930 Sunny 20230930 Sunny 20230930 Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	3.55 6.1	11:32	8.34 8.18	31.87	27.68	1.83 2.5	0.277 E	/
M1 M1	20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny	Moderate Moderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb	Middle Bottom Bottom	3.55	11:32 11:32	8.34 8.18 8.5 8.19	31.87 32.03	27.68 27.7	1.83 2.5 2.13 3	0.277 E 0.279 SE	/ / /
M1 M1 M2	20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny	Moderate Moderate Moderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Middle Bottom Bottom Surface	3.55 6.1	11:32 11:32 11:18	8.34 8.18 8.5 8.19 8.31 8.25	31.87 32.03 31.48	27.68 27.7 27.61	1.83 2.5 2.13 3 2.15 2.5	0.277 E 0.279 SE 0.288 E	/ / / / / / / / / / / / / / / / / / / /
M1 M1 M2 M2	20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny	Moderate Moderate Moderate Moderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Middle Bottom Bottom Surface Surface	3.55 6.1 6.1 1 1	11:32 11:32 11:18 11:18	8.34 8.18 8.5 8.19 8.31 8.25 8.29 8.22	31.87 32.03 31.48 31.65	27.68 27.7 27.61 27.63	1.83 2.5 2.13 3 2.15 2.5 2.19 3	0.277 E 0.279 SE 0.288 E 0.293 E	/ / / / /
M1 M1 M2 M2 M2	20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny	Moderate Moderate Moderate Moderate Moderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Middle Bottom Bottom Surface Surface Middle	3.55 6.1 6.1 1 1 6.55	11:32 11:32 11:18 11:18 11:17	8.34 8.18 8.5 8.19 8.31 8.25 8.29 8.22 8.42 8.19	31.87 32.03 31.48 31.65 31.7	27.68 27.7 27.61 27.63 27.66	1.83 2.5 2.13 3 2.15 2.5 2.19 3 2.26 2.5	0.277 E 0.279 SE 0.288 E 0.293 E 0.282 E	/ / / / / /
M1 M1 M2 M2 M2 M2 M2	20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny	Moderate Moderate Moderate Moderate Moderate Moderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Middle Bottom Bottom Surface Surface Middle Middle	3.55 6.1 6.1 1 6.55 6.55	11:32 11:32 11:18 11:18 11:17 11:17	8.34 8.18 8.5 8.19 8.31 8.25 8.29 8.22 8.42 8.19 8.33 8.25	31.87 32.03 31.48 31.65 31.7 31.68	27.68 27.7 27.61 27.63 27.66 27.68	1.83 2.5 2.13 3 2.15 2.5 2.19 3 2.26 2.5 2.35 2.5	0.277 E 0.279 SE 0.288 E 0.288 E 0.293 E 0.282 E 0.280 SE	/ / / / / /
M1 M2 M2 M2 M2 M2 M2 M2	20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny	Moderate Moderate Moderate Moderate Moderate Moderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Middle Bottom Bottom Surface Surface Middle Middle Bottom	3.55 6.1 1 1 6.55 6.55 12.1	11:32 11:32 11:18 11:18 11:17 11:17 11:17 11:16	8.34 8.18 8.5 8.19 8.31 8.25 8.29 8.22 8.42 8.19 8.33 8.25 8.43 8.25	31.87 32.03 31.48 31.65 31.7 31.68 31.6	27.68 27.7 27.61 27.63 27.66 27.66 27.68 27.61	1.83 2.5 2.13 3 2.15 2.5 2.19 3 2.26 2.5 2.35 2.5 2.13 3	0.277 E 0.279 SE 0.288 E 0.293 E 0.283 E 0.280 SE 0.280 SE	/ / / / / / / / /
M1 M2 M2 M2 M2 M2 M2 M2 M2 M2	20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny	Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Middle Bottom Bottom Surface Surface Middle Middle Bottom Bottom	3.55 6.1 6.1 1 6.55 6.55	11:32 11:32 11:18 11:18 11:17 11:17 11:16 11:16	8.34 8.18 8.5 8.19 8.31 8.25 8.29 8.22 8.42 8.19 8.33 8.25 8.43 8.25 8.38 8.24	31.87 32.03 31.48 31.65 31.7 31.68 31.6 31.58	27.68 27.7 27.61 27.63 27.66 27.68 27.68 27.61 27.65	1.83 2.5 2.13 3 2.15 2.5 2.19 3 2.26 2.5 2.35 2.5 2.12 3 2.12 3 2.13 2.5	0.277 E 0.278 SE 0.288 E 0.293 E 0.288 E 0.288 SE 0.286 SE 0.266 SE 0.266 E	
M1 M2 M2 M2 M2 M2 M2 M2 M2 M2 M3	20220930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny 20230930 Sunny	Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Middle Bottom Surface Surface Middle Middle Bottom Bottom Surface	3.55 6.1 1 1 6.55 6.55 12.1	11:32 11:32 11:18 11:18 11:17 11:17 11:16 11:16 11:51	8.34 8.18 8.5 8.19 8.31 8.25 8.29 8.22 8.42 8.19 8.33 8.25 8.43 8.25 8.38 8.24 8.38 8.24 8.43 8.14	31.87 32.03 31.48 31.65 31.7 31.68 31.6 31.58 31.48	27.68 27.7 27.61 27.63 27.66 27.68 27.61 27.65 27.55	1.83 2.5 2.13 3 2.15 2.5 2.19 3 2.26 2.5 2.35 2.5 2.12 3 2.13 2.5 2.12 3 2.13 2.5 2.13 2.5 2.13 2.5 2.18 2.5	0.277 E 0.279 SE 0.288 E 0.288 E 0.282 E 0.282 E 0.280 SE 0.268 SE 0.264 E 0.268 SE	
M1 M2 M2 M2 M2 M2 M2 M2 M2 M2 M3 M3	20230930 Sunny 20230930 Sunny	Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Middle Bottom Surface Surface Middle Bottom Bottom Surface Surface	3.55 6.1 1 1 6.55 6.55 12.1 12.1 1 1 1 1	11:32 11:32 11:18 11:18 11:17 11:17 11:16 11:16 11:51	8.34 8.18 8.5 8.19 8.31 8.25 8.29 8.22 8.42 8.19 8.33 8.25 8.43 8.25 8.38 8.24 8.43 8.14 8.33 8.11	31.87 32.03 31.48 31.65 31.7 31.68 31.6 31.58 31.48 31.48	27.68 27.7 27.61 27.63 27.66 27.68 27.61 27.65 27.55 27.55	1.83 2.5 2.13 3 2.15 2.5 2.19 3 2.26 2.5 2.35 2.5 2.12 3 2.13 2.5 2.12 3 2.13 2.5 2.14 2.5 2.15 2.15 2.16 2.5	0.277 E 0.279 SE 0.288 E 0.293 E 0.288 E 0.288 E 0.288 E 0.266 SE 0.266 E 0.266 SE 0.266 SE 0.266 SE	
M1 M2 M2 M2 M2 M2 M2 M2 M3 M3 M3 M3	20230930 Sunny 20230930 Sunny	Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Middle Bottom Surface Surface Middle Bottom Bottom Surface Surface Middle	3.55 6.1 1 1 1 6.55 6.55 12.1 12.1 1 1 1 1 3.25	11:32 11:32 11:18 11:18 11:17 11:17 11:16 11:16 11:51 11:51 11:50	8.34 8.18 8.5 8.19 8.31 8.25 8.29 8.22 8.42 8.19 8.33 8.25 8.43 8.25 8.38 8.24 8.43 8.14 8.33 8.11 8.43 8.14	31.87 32.03 31.48 31.65 31.7 31.68 31.6 31.58 31.48 31.45 31.34	27.68 27.7 27.61 27.63 27.66 27.68 27.61 27.65 27.55 27.55 27.55	1.83 2.5 2.13 3 2.15 2.5 2.19 3 2.26 2.5 2.13 2.5 2.13 2.5 2.13 2.5 2.13 2.5 2.13 2.5 2.13 2.5 2.14 2.5 2.18 2.5 2.15 2.5 2.32 2.5	0.277 E 0.278 SE 0.288 E 0.288 E 0.280 SE 0.280 SE 0.286 SE 0.266 E 0.266 E 0.295 SE 0.255 SE	
M1 M2 M2 M2 M2 M2 M2 M3 M3 M3 M3 M3 M3	20230930 Sunny 20230930 Sunny	Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Middle Bottom Bottom Surface Surface Middle Bottom Bottom Surface Surface Middle Middle	3.55 6.1 1 1 1 1 1 6.55 6.55 12.1 12.1 12.1 1 1 1 1 3.25 3.25	11:32 11:32 11:18 11:18 11:17 11:17 11:16 11:16 11:51 11:51 11:50 11:50	8.34 8.18 8.5 8.19 8.31 8.25 8.29 8.22 8.42 8.19 8.33 8.25 8.38 8.24 8.43 8.25 8.38 8.24 8.43 8.24 8.43 8.24 8.43 8.14 8.33 8.14 8.34 8.12	31.87 32.03 31.48 31.65 31.7 31.68 31.66 31.58 31.48 31.45 31.44 31.45 31.34	27.68 27.7 27.61 27.63 27.66 27.68 27.61 27.65 27.55 27.55 27.55 27.56 27.55	1.83 2.5 2.13 3 2.15 2.5 2.19 3 2.26 2.5 2.35 2.5 2.12 3 2.13 2.5 2.13 2.5 2.13 2.5 2.14 2.5 2.15 2.5 2.26 2.5 2.13 2.5 2.14 2.5 2.15 2.5 2.32 2.5 2.47 2.5	0.277 E 0.279 SE 0.288 E 0.293 E 0.283 E 0.280 SE 0.280 SE 0.266 SE 0.266 SE 0.295 SE 0.265 SE 0.265 SE 0.300 SE	
M1 M2 M2 M2 M2 M2 M2 M3 M3 M3 M3 M3 M3 M3	20230930 Sunny 20230930 Sunny	Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Middle Bottom Surface Surface Middle Bottom Bottom Surface Surface Middle Middle Middle Bottom	3.55 6.1 1 1 1 6.55 6.55 12.1 12.1 1 1 1 1 3.25	11:32 11:32 11:18 11:18 11:17 11:17 11:16 11:16 11:51 11:51 11:50	8.34 8.18 8.5 8.19 8.31 8.25 8.29 8.22 8.42 8.19 8.33 8.25 8.38 8.24 8.43 8.14 8.33 8.11 8.42 8.12 8.26 8.12 8.27 8.12 8.28 8.11 8.42 8.12 8.26 8.12 8.37 8.16	31.87 32.03 31.48 31.65 31.7 31.68 31.68 31.58 31.48 31.45 31.44 31.49 31.49 31.48	27.68 27.7 27.61 27.66 27.68 27.65 27.55 27.55 27.55 27.56 27.55 27.56	183 225 2.13 3 2.15 2.5 2.19 3 2.26 2.5 2.235 2.5 2.12 3 2.8 2.5 2.18 2.5 2.18 2.5 2.23 2.5 2.32 2.5 2.47 2.5 2.2 2.5	0.277 E 0.278 SE 0.288 E 0.293 E 0.288 E 0.288 SE 0.286 SE 0.266 SE 0.266 E 0.298 SE 0.266 E 0.295 SE 0.265 SE 0.265 SE 0.300 SE 0.300 SE	
M1 M2 M2 M2 M2 M2 M2 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3	20230930 Sunny 20230930 Sunny	Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Middle Bottom Sotrace Surface Middle Bottom Bottom Surface Surface Middle Bottom Bottom Bottom	3.55 6.1 1 1 1 1 6.55 6.55 12.1 1 2.1 1 1 1 1 3.25 3.25 5.5	11:32 11:32 11:18 11:18 11:17 11:17 11:16 11:16 11:51 11:51 11:50 11:50 11:49	8.34 8.18 8.5 8.19 8.31 8.25 8.29 8.22 8.42 8.19 8.33 8.25 8.43 8.25 8.43 8.24 8.43 8.14 8.33 8.14 8.43 8.14 8.43 8.14 8.43 8.14 8.43 8.14 8.43 8.14 8.43 8.14 8.43 8.14 8.43 8.14 8.43 8.14 8.43 8.14 8.43 8.14 8.43 8.14 8.43 8.12	31.87 32.03 31.48 31.65 31.7 31.68 31.68 31.58 31.48 31.48 31.45 31.34 31.49 31.48 31.56	27.68 27.7 27.61 27.63 27.66 27.68 27.65 27.55 27.55 27.55 27.55 27.56 27.56 27.56 27.56 27.56	183 25 213 3 2.15 2.5 2.19 3 2.26 2.5 2.33 2.5 2.13 2.3 2.14 3 2.15 2.5 2.12 3 2.13 2.5 2.14 2.5 2.15 2.5 2.15 2.5 2.47 2.5 2.47 2.5 2.47 2.5	0.277 E 0.279 St 0.288 E 0.293 E 0.288 E 0.288 E 0.288 E 0.288 SE 0.268 SE 0.268 SE 0.268 SE 0.295 SE 0.255 SE 0.265 SE 0.266 SE	
M1 M2 M2 M2 M2 M2 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3	20230930 Sunny 20230930 Sunny	Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Middle Bottom Surface Surface Middle Bottom Bottom Surface Surface Middle Middle Middle Bottom Bottom Bottom	3.55 6.1 1 1 1 1 6.55 6.55 12.1 1 2.1 1 1 1 1 3.25 3.25 5.5	11:32 11:32 11:18 11:18 11:17 11:17 11:16 11:16 11:51 11:50 11:50 11:50 11:49 11:49	8.34 8.18 8.5 8.19 8.31 8.25 8.29 8.22 8.42 8.19 8.33 8.25 8.43 8.24 8.43 8.14 8.33 8.11 8.42 8.12 8.26 8.12 8.27 8.16 8.38 8.14 8.39 8.11 8.42 8.12 8.26 8.12 8.26 8.12 8.27 8.16 8.34 8.14	31.87 32.03 31.48 31.65 31.7 31.68 31.66 31.58 31.66 31.58 31.48 31.45 31.34 31.49 31.48 31.56 31.34 31.56 31.98	27.68 27.7 27.61 27.63 27.66 27.68 27.65 27.55 27.55 27.55 27.56 27.56 27.56 27.56 27.56 27.56 27.56 27.56 27.56	183 25 2.13 3 2.15 2.1 2.10 3 2.26 2.5 2.23 2.5 2.13 2.5 2.13 2.5 2.13 2.5 2.13 2.5 2.13 2.5 2.13 2.5 2.13 2.5 2.13 2.5 2.13 2.5 2.13 2.5 2.13 2.5 2.13 2.5 2.21 3 2.22 2.5 2.47 2.5 2.47 2.5 2.47 2.5 2.47 2.5	0.277 E 0.279 SE 0.288 E 0.293 E 0.288 E 0.288 E 0.288 E 0.266 SE 0.266 SE 0.266 SE 0.265 SE 0.265 SE 0.265 SE 0.265 SE 0.266 SE 0.266 SE 0.266 SE 0.266 SE	
M1 M1 M2 M2 M2 M2 M2 M3 M3 M3 M3 M3 M3 M3 M3 M4 M4 M4	20230930 Sunny 20230930 Sunny	Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Middle Bottom Bottom Surface Middle Bottom Bottom Surface Surface Middle Bottom Bottom Bottom Surface Surface Surface	3.55 6.1 1 1 1 1 6.55 6.55 6.55 12.1 1 1 1 1 1 1 3.25 5.5 5.5 5.5 1 1 1 1	11:32 11:32 11:18 11:18 11:18 11:17 11:17 11:16 11:16 11:51 11:51 11:50 11:50 11:49 12:42 12:42	8.34 8.18 8.5 8.19 8.31 8.25 8.29 8.22 8.42 8.19 8.33 8.25 8.43 8.25 8.43 8.24 8.33 8.24 8.33 8.11 8.42 8.12 8.26 8.12 8.37 8.16 8.33 8.11 8.42 8.12 8.26 8.12 8.37 8.16 8.33 8.11 8.43 8.14	31.87 32.03 31.48 31.65 31.77 31.68 31.65 31.58 31.68 31.68 31.58 31.48 31.43 31.44 31.49 31.48 31.49 31.48 31.56 31.92 32.03 31.48 31.65 31.75	27.68 27.7 27.61 27.63 27.66 27.65 27.55 27.55 27.55 27.56 27.56 27.56 27.56 27.56 27.56 27.56 27.56 27.56 27.56	183 25 213 3 215 2.19 3 2.25 2.19 3 2.26 2.5 2.13 2.5 2.13 2.5 2.13 2.5 2.14 3 2.15 2.5 2.23 2.5 2.32 2.5 2.47 2.5 2.47 2.5 1.94 2.5 2.2 2.5	0.277 E 0.278 SE 0.288 E 0.293 E 0.280 SE 0.280 SE 0.280 SE 0.266 SE 0.266 SE 0.265 SE 0.265 SE 0.265 SE 0.266 SE 0.266 SE 0.266 SE 0.266 SE 0.266 SE 0.266 SE 0.266 SE 0.266 SE	
M1 M2 M2 M2 M2 M2 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3 M3	20230930 Sunny 20230930 Sunny	Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate	Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb	Middle Bottom Bottom Surface Surface Middle Bottom Bottom Surface Surface Middle Bottom Bottom Bottom Surface Surface Bottom Surface Surface Bottom	3.55 6.1 1 1 1 1 6.55 6.55 12.1 1 2.1 1 1 1 1 3.25 3.25 5.5	11:32 11:32 11:18 11:18 11:17 11:17 11:16 11:16 11:51 11:50 11:50 11:50 11:49 11:49	8.34 8.18 8.5 8.19 8.31 8.25 8.29 8.22 8.42 8.19 8.33 8.25 8.43 8.24 8.43 8.14 8.33 8.11 8.42 8.12 8.26 8.12 8.27 8.16 8.38 8.14 8.39 8.11 8.42 8.12 8.26 8.12 8.26 8.12 8.27 8.16 8.34 8.14	31.87 32.03 31.48 31.65 31.7 31.68 31.66 31.58 31.66 31.58 31.48 31.45 31.34 31.49 31.48 31.56 31.34 31.56 31.98	27.68 27.7 27.61 27.63 27.68 27.65 27.55 27.55 27.55 27.55 27.56 27.56 27.56 27.56 27.56 27.56 27.56 27.56 27.56 27.56 27.56 27.56	183 25 2.13 3 2.15 2.1 2.10 3 2.26 2.5 2.23 2.5 2.13 2.5 2.13 2.5 2.13 2.5 2.13 2.5 2.13 2.5 2.13 2.5 2.13 2.5 2.13 2.5 2.13 2.5 2.13 2.5 2.13 2.5 2.13 2.5 2.21 3 2.22 2.5 2.47 2.5 2.47 2.5 2.47 2.5 2.47 2.5	0.277 E 0.279 SE 0.288 E 0.293 E 0.288 E 0.288 E 0.288 E 0.266 SE 0.266 SE 0.266 SE 0.265 SE 0.265 SE 0.265 SE 0.265 SE 0.266 SE 0.266 SE 0.266 SE 0.266 SE	



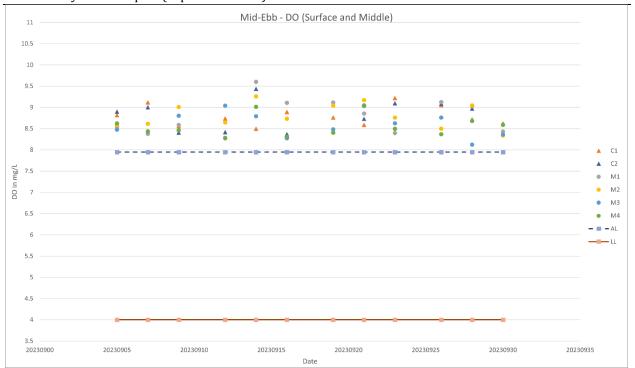
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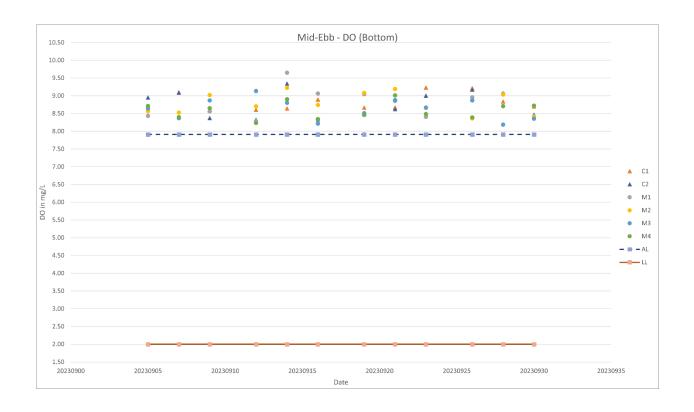






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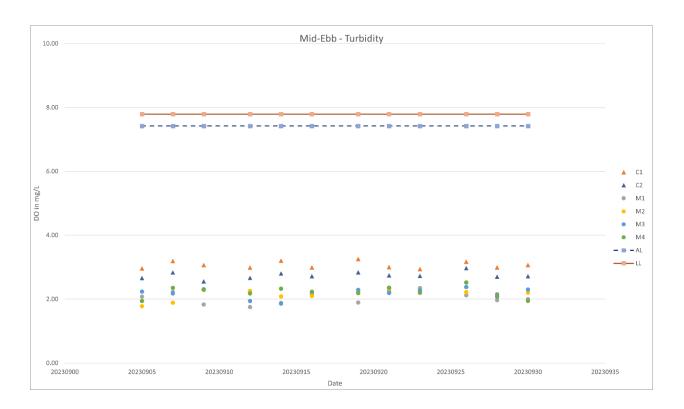






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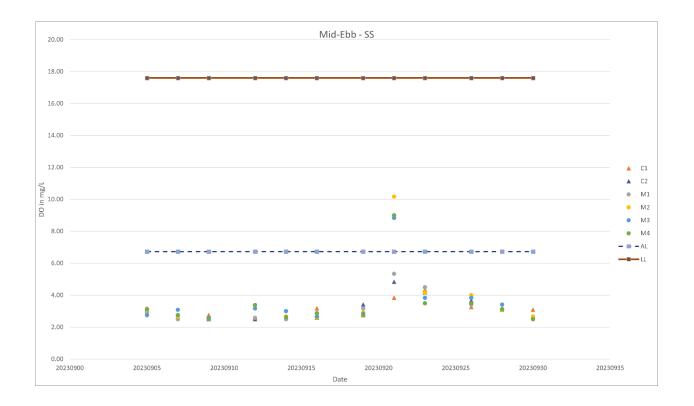






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Mid-Flood - SS 20.00 18.00 16.00 14.00 12.00 C1 ۸ C2 . DO in mg/L М1 • 10.00 • M2 M3 • 8.00 • M4 - -- AL - -- LL 6.00 • • -8 4.00 â ۵ -8 8 • . ٠ 2.00 0.00 20230900 20230905 20230910 20230915 20230920 20230925 20230930 20230935 Date





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



Statistical Summary of Environmental Complaints

Reporting	Environmental Complaint Statistics									
Period	Frequency	Cumulative	Complaint Nature							
September 2023	0	0	N/A							

Statistical Summary of Environmental Summons

Reporting	Envi	ronmental Summons Stati	istics
Period	Frequency	Cumulative	Details
September 2023	0	0	N/A

Statistical Summary of Environmental Prosecution

Reporting Period	Environmental Prosecution Statistics									
Period	Frequency	Cumulative	Details							
September 2023	0	0	N/A							