





Contract No. PI 2/2020

Environmental Monitoring Works for Lei Yue Mun Waterfront Enhancement Project

Monthly EM&A Report (May 2023)

Document No.

ASCL	/	200168151	/	EMA062023	/	0
Publisher		Project Code		Sequential No.		Revision Index

	Prepared by:	Checked by:	Certified by:
Name	Jack Chow	Melody Cheng	Kevin LI
Position	Environmental Team	Environmental Team	Environmental Team
FOSITION	Member	Member	Leader
Signature	Jack	P	K;
Date:	14 June 2023	14 June 2023	14 June 2023

Contract No. PI 2/2020 Environmental Monitoring Works for Lei Yue Mun Waterfront Enhancement Project 25th Monthly EM&A Report (May 2023)





REVISION HISTORY

Rev.	DESCRIPTION OF MODIFICATION	DATE
0	-	-

Contract No. PI 2/2020 Environmental Monitoring Works for Lei Yue Mun Waterfront Enhancement Project 25th Monthly EM&A Report (May 2023)





CONTENTS

Exe	ecutive Summa	ary
1.	Basic Project	t Information1
2.	Noise	
3.	Water Qualit	ty12
4.	Ecological	19
5.	Waste	23
6.	Summary of	Monitoring Exceedance, Complaints, Notification of Summons and Prosecutions 26
7.	EM&A Site In	nspection27
8.	Future Key I	ssues29
9.	Conclusions	and Recommendations30
Aı	opendix A	Master Programme
Aı	opendix B	Summary of Implementation Status of Environmental Mitigation
Aı	opendix C	Impact Monitoring Schedule of this and next Reporting Period
Aı	opendix D	Event/Action Plan for Noise Exceedance
Aı	opendix E	Noise Monitoring Equipment Calibration Certificate
Aı	opendix F	Noise Monitoring Results
Aı	opendix G	Event/Action Plan for Water Quality Exceedance
Αı	pendix H	Water Quality Monitoring Equipment Calibration Certificate
Aı	opendix I	Water Quality Monitoring Results
Aı	opendix J	Complaint Log





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 25th Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 May to 31 May 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 Contract No. CV/2020/09 Rock drilling and hydraulic jacking to associate with rock excavation near sea-side of landing Construction of sloping seawall at landing Construction of pile cap in breakwater area and landing steps Structural monitoring for nearby existing structures Contract No. TC J517 Maintenance works

- 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. No water monitoring exceedance was recorded in the reporting period.
- A10.Weekly site inspections of the construction work by ET were carried out on 4, 11, 18 and 25 May 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	
Rock drilling and hydraulic jacking to associate with rock	Landing Facility
excavation near sea-side of landing	
Construction for vertical seawall at landing	Landing Facility
Construction of sloping seawall at landing	Landing Facility
Construction of pile cap at landing facility	Landing Facility
Construction of pile cap BW2 at breakwater	Breakwater Area
Structural monitoring for nearby existing structures	Existing Structures to be Potential
	Effected by Construction Activities
Contract No. TC J517	
Maintenance works	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 25th Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 May to 31 May 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**.





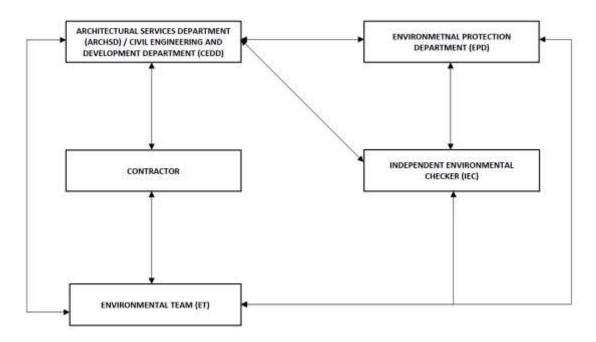


Figure 1.1 Project Organization Chart

Table 1.1 Key Personnel's' Contact for the Construction of a Public Landing Facility and Improvement 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	Mr. Ken Cheung	2867 3972
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	
Rock drilling and hydraulic jacking to associate with rock	Landing Facility
excavation near sea-side of landing	
Construction of sloping seawall	Landing Facility
Construction of pile cap	Breakwater Area
Structural monitoring for nearby existing structures	Existing Structures to be Potential
	Effected by Construction
	Activities
Contract No. TC J517	
Maintenance works	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	7039364	Throughout the Contract
Construction Waste		
Discharge Licence under	WT00040594-2022	Valid to 30 Jun 2027
Water Pollution Control Ordinance		
Contract No. TC J517		
Environmental Permit	EP-564/2018	Throughout the Contract
Notification of Construction Works under	Ref. No.: 467619	Throughout the Contract
the Air Pollution Control (Construction		
Dust) Regulation (Form NA)		
Chemical Waste Producer Registration	5312-298-M2939-02	Throughout the Contract
Billing Account for Disposal of	7039353	Throughout the Contract
Construction Waste		
Discharge Licence under	WT00039075-2021	Valid to 30 Sep 2026
Water Pollution Control Ordinance		





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

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.

Contract No. PI 2/2020 Environmental Monitoring Works for Lei Yue Mun Waterfront Enhancement Project 25th Monthly EM&A Report (May 2023)





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 $_{30 min}$ 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.

Table 2.1 Noise Monitoring Parameters, Time, Frequency and Duration

Time	Duration	Interval	Parameters
Daytime: 0700-1900	Day time: 0700-1900 (during normal weekdays)	$\begin{array}{c} \text{Continuously in} \\ L_{\text{eq 5min}}/L_{\text{eq 30min}} \text{(average} \\ \text{of 6 consecutive } L_{\text{eq 5min}} \text{)} \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

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.





Table 2.2 Noise Monitoring Locations

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

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**.

Table 2.3 Updated Noise Monitoring Stations for Baseline and Impact Monitoring

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

The location of all original construction noise monitoring stations and the alternative construction noise monitoring station are shown in **Figure 2.1**.





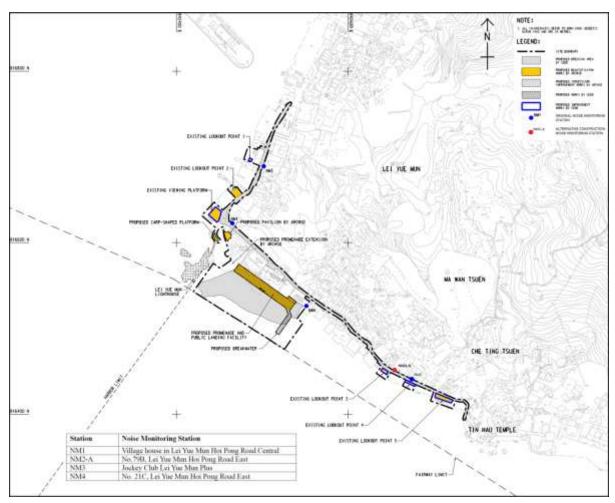


Figure 2.1 Noise Monitoring Locations





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.: 820250)
Acoustic Calibrator	Scarlet ST-120

2.4. ACTION AND LIMIT LEVELS

The Action/Limit Levels are in line with the criteria of Practice Note for Professional Persons (ProPECC PN 2/93) "Noise from Construction Activities – Non-statutory Controls" and Technical Memorandum on Environmental Impact Assessment Process issued by HKSAR Environmental Protection Department ["EPD"] under the Environmental Impact Assessment Ordinance, Cap 499, S.16 are presented in **Table 2.5**.

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

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

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

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





2.5. MONITORING RESULTS AND OBSERVATIONS

Referring to EM&A manual Section 4.6.1.1 construction noise monitoring should be carried out when there are project-related construction activities undertaken within a radius of 300m from the monitoring stations. 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.

Table 2.6 Summary of Noise Monitoring Results in the Reporting Month

Location	Noise in dB(A)
LUCALIUII	L _{eq 30min} Daytime (7:00-19:00 on normal weekdays)
NM1	58.3 - 67.9
NM2-A	53.2 - 57.9
NM3	63.7 - 67.3
NM4	57.6 - 67.8

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**.

Table 3.1 Parameters measured in the marine water quality monitoring

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

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 turbidity-measuring 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.

Contract No. PI 2/2020 Environmental Monitoring Works for Lei Yue Mun Waterfront Enhancement Project 25th Monthly EM&A Report (May 2023)





Water Sampling Equipment - A water sampler, consisting of a PVC or glass cylinder of not less than two litres, which can be effectively sealed with cups at both ends, will be used (e.g. Kahlsico Water Sampler 13SWB203 or an approved similar instrument). The water sampler will have a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler is at the selected water depth.

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

3.4. SAMPLING / TESTING PROTOCOLS

All in situ monitoring instruments will be checked, calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme before use, and subsequently recalibrated at monthly intervals throughout the stages of the water quality monitoring. Responses of sensors and electrodes will be checked with certified standard solutions before each use.

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

3.5. LABORATORY MEASUREMENT AND ANALYSIS

All laboratory work shall be carried out in a HOKLAS accredited laboratory. Sufficient volume of each water sample shall be collected at the monitoring stations for carrying out the laboratory analyses. Using chain of custody forms, collected water samples will be transferred to an HOKLAS accredited laboratory for immediate processing. The determination work shall start within 24 hours after collection of the water samples. The laboratory measurements shall be provided to the client within 5 working days of the sampling event. Analytical methodology and sample preservation of other parameters will be based on the latest edition of Standard Methods for the Examination of Waste and Wastewater published by APHA, AWWA and WPCF and methods by USEPA, or suitable method in accordance with requirements of HOKLAS or another internationally accredited scheme.

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

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





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

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

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

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

3.6. MONITORING LOCATIONS

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

Table 3.3 Location of Water Quality Monitoring Station

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)





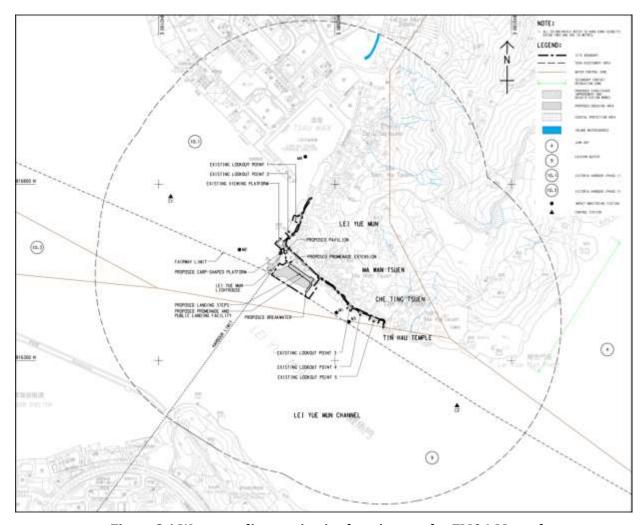


Figure 3.1 Water quality monitoring locations under EM&A Manual

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**.

Table 3.4 Derived Action and Limit Levels for Water Quality Monitoring

Parameters	Action	Limit							
During the Dredging and Filling Operation of the Project									
DO in mg/L	Surface and Middle 7.95 mg L ⁻¹ Bottom 7.91 mg L ⁻¹	Surface and Middle 4 mg L ⁻¹ Bottom 2 mg L ⁻¹							
SS in mg/L (Depthaveraged)	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							

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**.

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

					Par	ameters					
Loca	Location		olved Ox	kygen (mg	/L)	Turbi	dity	Suspended Solids (mg/L)			
		S&N	/ [(i)	B(i	i)	(NT	U)				
		Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb		
	Avg. 8.80 8.90 8.80		8.86	3.22	3.73	3	3				
C1	Min.	8.37	8.34	8.36	8.24	2.75	2.99	3	3		
C1	Max.	9.38	9.47	9.39	9.37	3.78	4.76	3	3		
	Avg.	8.73	8.64	8.75	8.65	3.78 3.25		3	3		
C2	Min.	8.32	8.22	8.32	8.25	2.99	2.51	3	3		
	Max.	9.17	9.17	9.17	9.16	4.62	4.21	3	3		
	Avg.	8.75	8.57	8.76	8.59	2.78	2.78 2.74		3		
M1	Min.	8.23	8.28	8.24	8.21	2.07	2.15	3	3		
	Max.	9.24	9.28	9.27	9.35	3.48	3.47	3	3		
	Avg.	8.71	8.76	8.71	8.79	35 3.48 3.47 3 79 2.93 2.89 3		3	3		
M2	Min.	8.26	8.29	8.22	8.37	2.03	2.14	3	3		
	Max.	9.42	9.42	9.40	9.42	3.82	4.13	3	3		
	Avg.	8.76	8.71	8.77	8.71	2.76	2.69	3	3		
М3	Min.	8.42	8.22	8.43	8.14	2.11	1.80	3	3		
MS	Max.	9.11	9.38	9.13	9.43	3.31	3.63	3	3		
	Avg.	8.58	8.75	8.60	8.76 2.82 2		2.70	3	3		
M4	Min.	8.18	8.05	8.22	8.08	2.03	1.90	3	3		
	Max.	9.05	9.44	9.01	9.45	3.70	3.46	3	4		

Notes:

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

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





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.





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.

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

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.

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.





Table 4.2.2 Event and Action Plan for Coral Post-translocation Monitoring

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	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. 					

Contract No. PI 2/2020 Environmental Monitoring Works for Lei Yue Mun Waterfront Enhancement Project 25th Monthly EM&A Report (May 2023)





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.

Contract No. PI 2/2020 Environmental Monitoring Works for Lei Yue Mun Waterfront Enhancement Project 25th Monthly EM&A Report (May 2023)





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 May 2023

Department: CEDD

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



Monthly Summary Waste Flow Table for Year 2023

			71	Qu	antities	of Inert	C&D M	aterials (Senerat	ed Mon	thly				Quantities of C&D Wastes Generated Monthly															
Month	Total Quantity Generated		Total Quantity Generated Concr		Concrete		Reused in the Contract (in '000m³)		Concrete Reused in the Reused in Dispos								Alter	osal at native oosal ound	Impor	ted Fill	Me	etals	Card	er / board aging	IVes-	stics lote 3)	0.502001	mical iste	- Contract (1977)	s, e.g. I refuse
	(in '00	00m³)	(in '000m³)						(in '000m³)		(in '000m ³)		(in '000m³)		(in '000kg)		(in '0	00kg)	(in '0	00kg)	(in '000kg)		(in '0	00m³)						
	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.						
Jan	0.02	0	0	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	8	0.02		2		0		0	e.	0		0		0.01		0.005							
Sub-total	10.12	0.32	0		0		0		0.12		10		0		0		0		0		0.01		0.05							
Jul	0.2		0		0		0		0.2		0		0		0		0		0		0		0.005							
Aug	0.3		0		0		0		0.3		0.0		0		0		0		0		0		0.005							
Sep	0.3		0		0		0		0.3		0.0		0		0		0		0		0		0.005							
Oct	0.2		0		0		0		0.2		0.0		0		0		0		0		0		0.005	1						
Nov	0.2		0		0		0		0.2		0.0		0		0		0		0		0		0.005	1						
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	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 '000m³)	(in '000m³)	(in '000m³)	(in '000m³)	(in '000m³)	(in '000m³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m³)
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.

Contract No. PI 2/2020 Environmental Monitoring Works for Lei Yue Mun Waterfront Enhancement Project 25th Monthly EM&A Report (May 2023)





Architec	Form No. D/OI.03/09.002				
Contract No. / Works Order No.: -	TCJ 517 / ASD012730	_	Final Submission	No	
Monthly Summary Waste Flow Table	f(2023	[year] [to be submitted not later than the 15th day of each month following reporting month]			nonth]

(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	0.000					
Sub-total	0.085	0.000	0.000	0.000	0.085	
Jul	0.000					
Aug	0.000					
Sep	0.000					
Oct	0.000					
Nov	0.000					
Dec	0.000					
Total	0.085	0.000	0.000	0.000	0.085	

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





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 4, 11, 18 and 25 May 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**.

Table 7.1 Site Observations

Date	Environmental Observations	Follow-up Status				
Follow-up action of last month site observation(s)						
	1. Nil.	1				
Site observation	n(s) in reporting month					
4 May 23	CEDD 1. (Reminder) Oil stain should be cleared promptly.	1. N.A.				
	2. (Reminder) Faded NRMM label of drilling rig to be replaced.	2. N.A.				
	3. (Reminder) Soil on the rock bunds surface should be cleared to avoid soil runoff to the sea.	3. N.A.				
	ASD 1. Tree protection zone should be provided for Tree no. T5; construction materials on tree trunk should be removed. (Existing lookout point 2)	1. Rectified				
11 May 23	CEDD 1. Nil.	1. N.A.				
	ASD 1. Nil.	1. N.A.				





Date	Environmental Observations	Follow-up Status
18 May 23	CEDD 1. The NRMM Label of grilling rog was observed faded.	1. Rectified.
	2. The chemical container should be label and placed on the drip tray.	2. Rectified.
	3. (Reminder) Floating refuse on sea should be cleaned up.	3. N.A.
	ASD 1. (Reminder) Construction materials should be cleared regularly at the U-channel (at Lookout point 5).	1. N.A.
25 May 23	CEDD 1. Silt curtain shoud not be too close to the shore.	1. Rectified
	2. The muddy water generated dring consturction work should be redirect to prevent any discharge to water body.	2. Rectified
	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	
Rock drilling and hydraulic jacking to associate with rock	Landing Facility
excavation near sea-side of landing	
Construction for vertical seawall at landing	Landing Facility
Construction of sloping seawall at landing	Landing Facility
Construction of pile cap at landing facility	Landing Facility
Construction of pile cap BW2 at breakwater	Breakwater Area
Structural monitoring for nearby existing structures	Existing Structures to be Potential
	Effected by Construction Activities
Contract No. TC J517	
Maintenance works	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.





9. CONCLUSIONS AND RECOMMENDATIONS

This is the 25th Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 May to 31 May 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 Updated Noise Level Predictions

EIA Noise Assessment Point (NAP)	Prediction [dB(A)]	EM&A Monitoring Station	Noise Levels [db(A)]	
HPRC V1	62-72	NM1	58.3 - 67.9	
HPRE 75B*	55-75	NM2-A	53.2 - 57.9	
LYMP	70	NM3	63.7 - 67.3	
HPRE 21C	67-75	NM4	57.6 - 67.8	

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

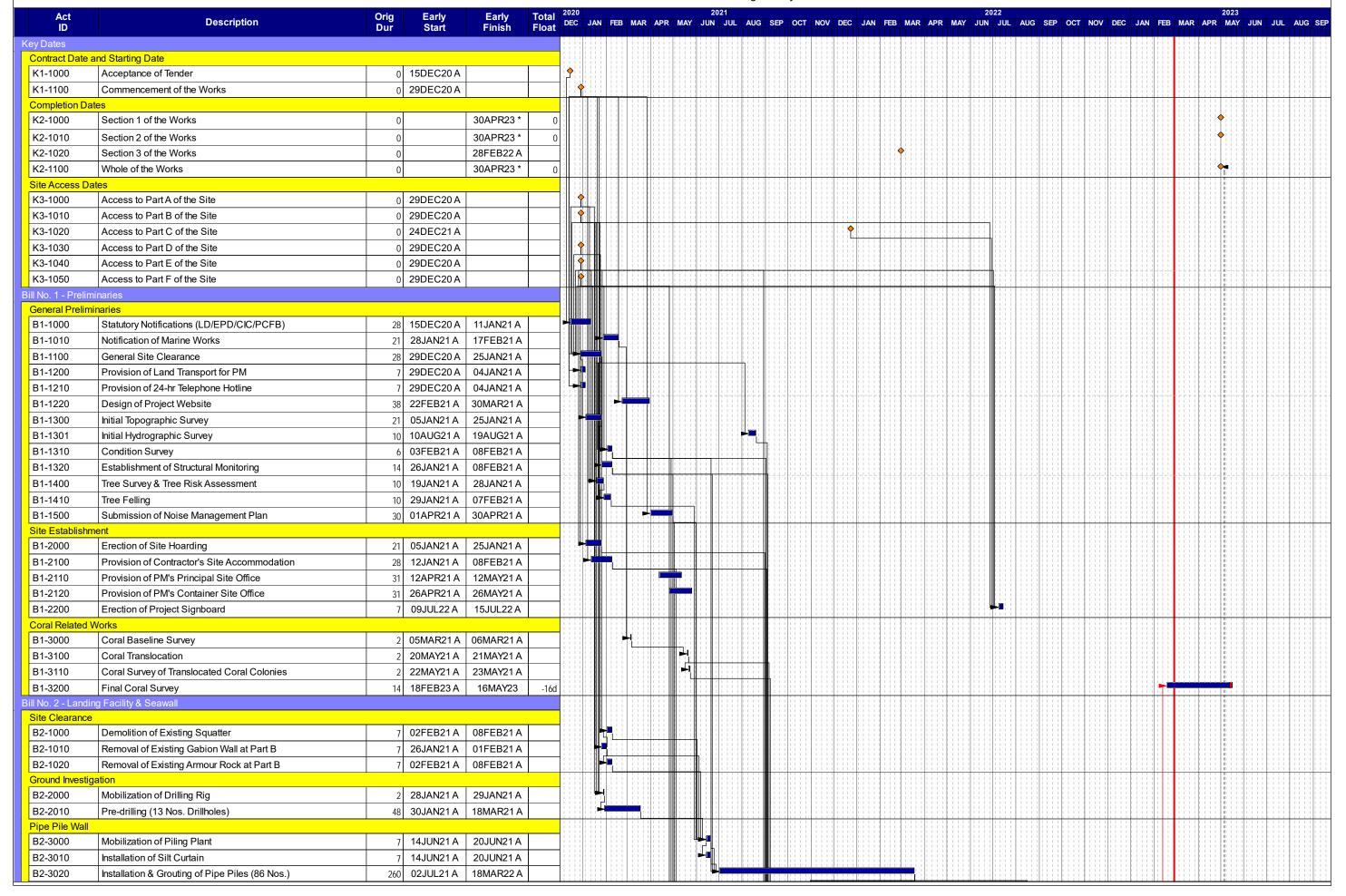
The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

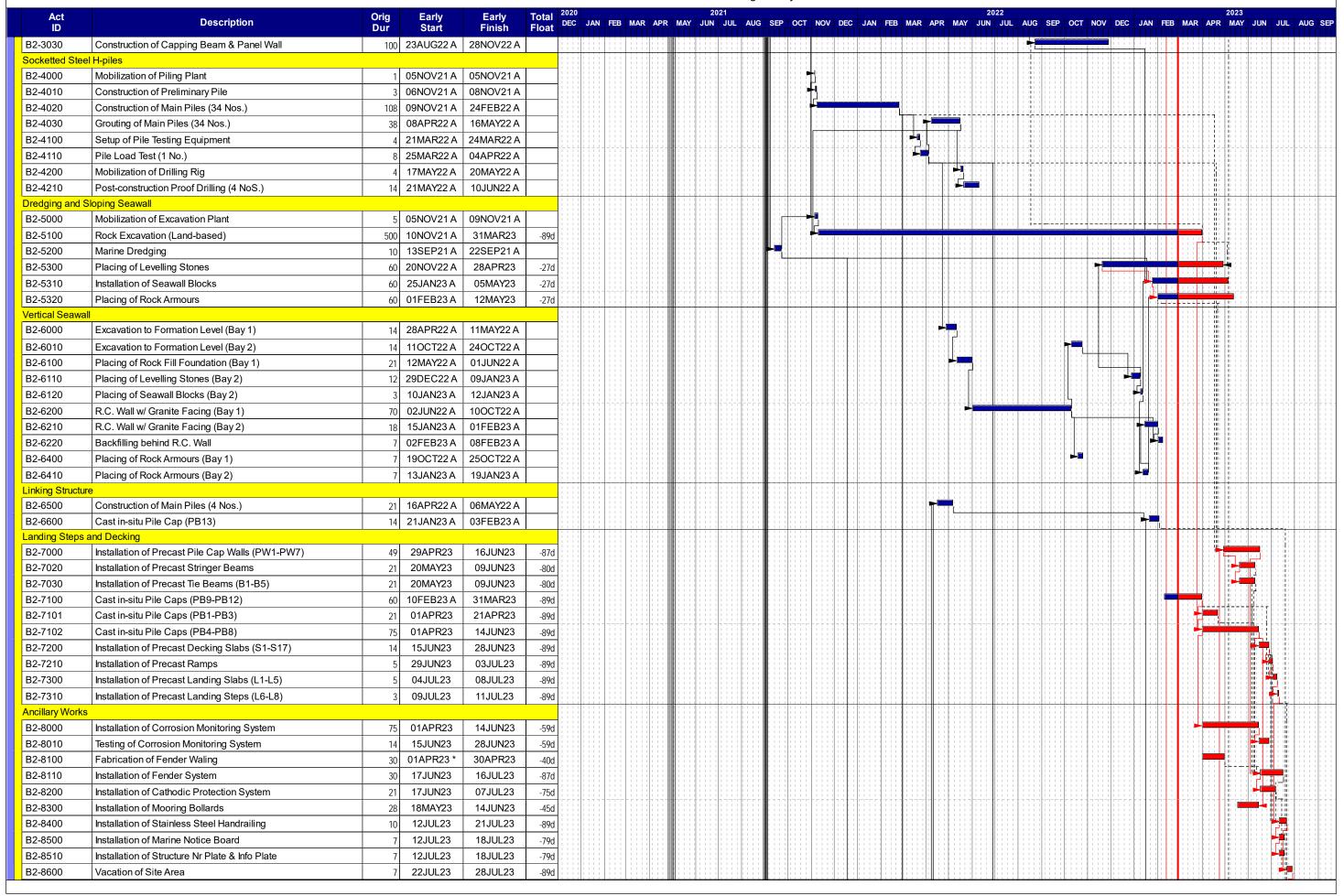
Contract No. PI 2/2020 Environmental Monitoring Works for Lei Yue Mun Waterfront Enhancement Project 25th Monthly EM&A Report (May 2023)

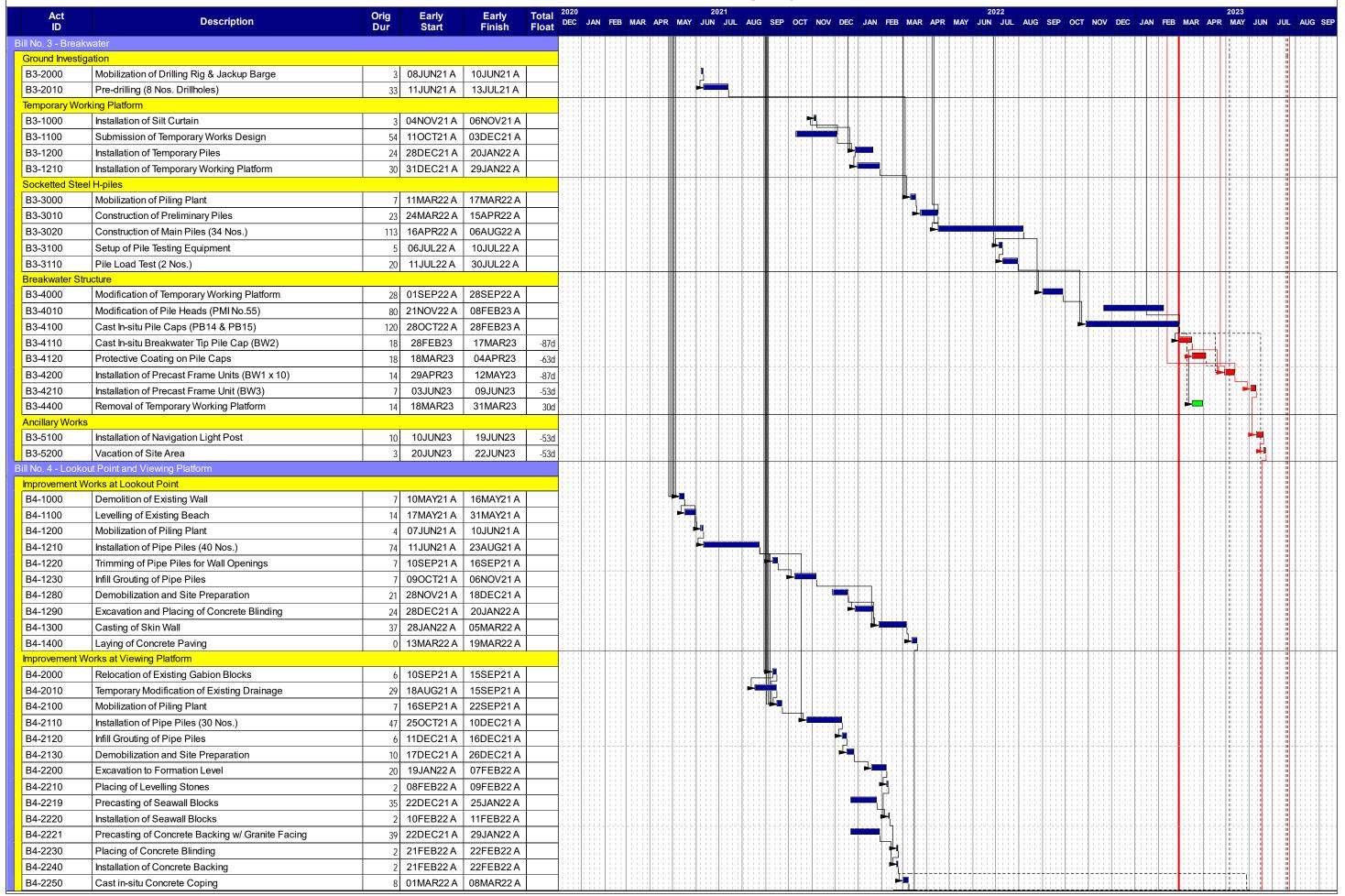




Appendix A Master Programme







Act		Orig	Farly	Farly	Tota	2020					2021	_								_		2022			_		_				2023			
ID	Description	Orig Dur	Early Start	Early Finish	Floa	t DEC	JAN FE	B MAR	APR MA	Y JUN) JUL	AUG	SEP	ОСТ	NOV	DEC	JAN	FEB M	AR A	PR MA	Y JUI	N JUL	AUG	SEP	ОСТ	NOV	DEC	JAN F	B MAR	APR	MAY	UN J	JUL AUC	S
B4-2260	Installation of Geotextile Filter	2	22FEB22 A	23FEB22 A														4																
B4-2300	Backfilling behind Concrete Backing & Coping	13	24FEB22 A	12MAR22 A			1+++		+++																	1111								
B4-2400	Installation of Enhanced Seawall Panels	0	05JUN23 *	04JUN23	-35	5d																				Ш					#			
B4-2500	Laying of Concrete Paving	0	13MAR22 A	13MAR22 A														 																
B4-2600	Vacation of Site Area	3	20MAR22 A	22MAR22 A														•	-1															
ompletion and	Handover			<u>'</u>	•																													
Sectional Con	npletion																									Ш								
C1-1000	Completion of Section 1 of the Works	0		28JUL23	-89	9d				Ш																Ш							-	
C1-1010	Completion of Section 2 of the Works	0		22JUN23	-53	3d																												
C1-1020	Completion of Section 3 of the Works	0		22MAR22 A															•														300	
Final Complet	ion																									IIII								
C1-2000	Final Survey & Submission of As-built Records	28	01JUL23	28JUL23	-89	d : : :																												
C1-2100	Handover of the Works to the Employer	0		28JUL23	-89	9d																											-	
C1-2200	Completion of Whole of the Works	0		28JUL23	-89	9d																				Ш								

Start date	15DEC20		Early bar		Date	Revis		
Must finish o	ate 30APR23		Progress ba	ar	28FEB23		ZYW	TSL
			Critical bar					
		CONSTRUCTION PROGRAMI	1E	one point				
© Primov	ara Suatama Ina		Finish miles					
© Pilinav	era Systems, Inc.			<u> </u>				





Appendix B Summary of Implementation Status of Environmental Mitigation

Appendix B IMPLEMENTATION SCHEDULE OF THE PROPOSED MITIGATION MEASURES

 Table B.1
 Implementation Schedule for Air Quality Mitigation Measures

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	Implementation Stages*			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 plies 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. 	

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	Imple Si	ment tages		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.		Contractor		V		◆ EPD's Recommended Pollution Control Clauses for Construction Contracts	

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*			Relevant Legislation and
			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.	dredging, handling of dredged materials	Contractor		√	√	 ◆ APCO ◆ EIAO-TM ◆ Air Pollution Control (Construction Dust) Regulation (Cap 311R) ◆ Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation.

^{*} Des - Design, C - Construction, O - Operation

 Table B.2
 Implementation Schedule for Noise Mitigation Measures

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	Implementati 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. 		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	Implementation Stages*			Relevant Legislation and
	Mitigation Measures		Agent	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		٧		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/m² 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

APP B - 5

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

APP B - 6

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

^{*} Des - Design, C - Construction, O - Operation

 Table B.3
 Implementation Schedule for Water Quality Mitigation Measures

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	Implementation Stages*			Relevant Legislation and
	Mitigation Measures		Agent	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 / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*			Relevant Legislation and
	Mitigation Measures		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	٨	◆ 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		√	٨	◆ EIAO-TM ◆ WPCO

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*			Relevant Legislation and
	Mitigation Measures		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	◆ EIAO-TM ◆ WPCO
S5.8.2.3	 Site Runoff and General Activities High loading of SS in site run-off should be prevented through proper site management by the contractor; Sand and silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly by the 	All works sites / during construction stage	Contractor		V		 ◆ ProPECCPN 1/94 Construction Site Drainage ◆ WPCO

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

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	_	ement Stages		Relevant Legislation and	
	Mitigation Measures		Agent	Des	С	0	Guidelines	
	chemical toilets on a regular basis. Any sewage or wastewater discharge into the surrounding environment should not be allowed. Any chemical toilets should be located away from the river.							
S5.8.3.2 & S5.8.3.3	 Design Measures Exposed surface shall be avoided within the proposed development to minimise soil erosion. Development site shall be either hard paved or covered by landscaping area where appropriate to reduce soil erosion. The existing marine water in adjacent to the Project sites will be retained to maintain the original flow path. The drainage system will be designed to avoid any case of flooding based on the 1 in 50 year return period. 	Works sites / during operation stage	Project Proponent / Operator	٧		٧	◆ 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 minutes' 	Works sites/ during operation stage	Project Proponent / Operator	1		٧	◆ EIAO-TM ◆ WPCO ◆ WDO	
	Subject to detailed design, standard manholes with desilting opening / sand trap designed for first flush							

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.						
\$5.8.3.7 to \$5.8.3.8	 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

^{*} Des - Design, C - Construction, O - Operation

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

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.		Project Proponent / Operator			٧	◆ EIAO-TM

^{*} Des - Design, C - Construction, O - Operation

 Table B.5
 Implementation Schedule for Waste Management Measures

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	Imple S	ment tages		Relevant Legislation and	
	Mitigation Measures	3	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	٧	٧		◆ 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 	Works sites/ during design and construction stages	Project Proponent/ Contractor	√	٧		◆ 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 castin-situ method for construction of concrete structure as far as possible. 	Works sites / during design and construction stages	Project Proponent/ Contractor	V	V		◆ EIAO-TM ◆ WDO

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Imple S	ment tages		Relevant Legislation and Guidelines
				Des	С	0	
\$7.7.5.1 - 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 transportation. Obtain relevant waste disposal permits from the appropriate authorities. Dispose of waste at licensed waste disposal facilities. 		Contractor		~		◆ EIAO-TM ◆ WDO

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	Imple St	ment tages		Relevant Legislation and
	Mitigation Measures		Agent	Des	С	0	Guidelines
\$7.7.6.1 – 7.7.6.10 & \$7.7.13.1	 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 	Works sites / during dredging, handling, transportation and disposal of sediment in construction stage and maintenance dredging in operation stages	Project Proponent / Contractor	Des	C	O V	Guidelines ◆ DASO ◆ ETWB TCW No. 34/2002 ◆ APCO ◆ WPCO
	arrangements of the dredged sediment. A Sediment 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	Implementation Stages*			Relevant Legislation and
	Mitigation Measures		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 completely paved or covered by linings in order to avoid contamination to underlying soil or groundwater. Separate and clearly defined 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). 						

APP B - 19

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	Imple S	ment tages		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		√ V		 ♦ WDO ♦ DEVB TCW No. 06/2010 ♦ ETWB TCW 33/2002 ♦ ETWB TCW 19/2005

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and
				Des	С	0	Guidelines
	 Non-inert C&D waste, such as wood, plastic, steel and other metals should be reused or recycled and, as a last resort, disposed to landfill. A suitable area should be designated within the site for temporary stockpiling of C&D materials and to facilitate the sorting process. Within the stock pile areas, the following measures should be taken to control potential environmental impacts or nuisance: Waste such as soil should be handled and stored well to ensure secure containment; Covering materials during heavy rainfall; Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; Locating stockpiles to minimise potential visual impacts; and Minimising land intake of stockpile area as far as possible. A system should be devised for on-site sorting of C&D materials. This system should include the identification of the source of generation, estimated quantity of waste generated, arrangement for on-site sorting and / or collection, designated stockpiling areas, frequency of 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 / Mitigation Measures	Location / Timing	Implementation Agent	Imple S	ment tages		Relevant Legislation and
				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
\$7.7.9.1 & \$7.7.11.1	 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
\$7.7.10.1 & \$7.7.10.2	 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	Implementation Stages*			Relevant Legislation and
	Mitigation Measures		Agent	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			V	♦ 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			1	♦ WDO

^{*} Des - Design, C - Construction, O - Operation

Table B.6 Implementation Schedule for Land Contamination Mitigation Measures

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

 Table B.7
 Implementation Schedule for Ecology Mitigation Measures

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

EIA Ref.	Environmental Protection Measures /	Location /	Implementation	Implementation Stages*			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		√ 	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 /	Location /	Implementation	Implementation Stages*			Relevant Legislation and
	Mitigation Measures	Timing	Agent	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 armours which would have spaces between rock armour units to allow intertidal organisms to grow. The new vertical seawall for the lookout points and viewing platform and the breakwater would also provide additional hard substrata for the recolonization of intertidal fauna and corals. Ecological features e.g. seawall enhanced with rough texture and irregular pattern would be incorporated into the design of vertical seawall as far as practicable. A submission on the detailed design of the ecological features to be adopted will be prepared subject to comment by the AFCD prior to the installation of the ecological features.	Works site / during the construction and operation stages	Project Proponent / Contractors		V	V	◆ EIAO-TM

^{*} Des - Design, C - Construction, O - Operation

 Table B.8
 Implementation Schedule for Fisheries Mitigation Measures

EIA Ref.	Environmental Protection Measures /	Environmental Protection Measures / Mitigation Measures Location / Timing n Agent	Implementatio	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. 	the construction and operation stages	Contractors		V	V	◆ EIAO-TM ◆ ProPECC PN 1/94 ◆ WPCO

^{*} Des - Design, C - Construction, O - Operation

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

EIA Ref.		Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and
					Des	С	0	Guidelines
Table	•	CM1 - All the existing Trees to be retained and not to	Works site / during	Project	√			♦ EIAO-TM
11.10		be affected by the Project should be carefully	the design and	Proponent/				◆ DEVB TC (W)
		protected during the construction phase in	construction stages	Contractors				No.7/2015
		accordance with DEVB TCW No. 7/2015 titled "Tree						Guidelines on Tree
		Preservation" and the latest "Guidelines on Tree						Preservation
		Preservation during Development" issued by GLTM						during
		Section of DEVB, including provision of Tree						Development
		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						

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	√	√ 	√ 	
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		√ 		◆ 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	٧		V	◆ EIAO-TM

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	Implementation Stages*			Relevant Legislation and
	Mitigation Measures		Agent	Des	С	0	Guidelines
Table 11.11	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. 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	Works site / during the operation stage	Project Proponent/ Contractors	Des		√	◆ EIAO-TM
	 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. 						

^{*} Des - Design, C - Construction, O - Operation

AECOM App B - 31





Appendix C Impact Monitoring Schedule of this and next Reporting Period

	Contract No. CV/2020/09 Lei Yue Mun Waterfront Enhancement Project EM&A Monitoring Schedule								
			May-23						
Sun	Mon	Tue	Wed	Thu	Fri	Sat			
	1	2	3	4	5	6			
	Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 07:59 - 12:17 Flood Tide: 12:17-18:07 Monitoring Time: Mid-ebb: 08:23 - 11:53 Mid-flood: 13:27 - 16:57		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 08:12 - 13:49 Flood Tide: 13:49 - 20:19 <u>Monitoring Time:</u> Mid-ebb: 09:15 - 12:45 Mid-flood: 15:19 - 18:49		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 08:49 - 15:10 Flood Tide: 15:10 - 22:02 <u>Monitoring Time:</u> Mid-ebb: 10:14 - 13:44 Mid-flood: 15:30 - 19:00&	Impact Daytime Noise monitoring for NM1, NM2-A, NM3 & NM4			
7	8	9	10	11	12	13			
	Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 10:19 - 17:24 Flood Tide: 03:36- 10:19 Monitoring Time: Mid-ebb: 12:06 - 15:36 Mid-flood: 08:00 - 09:58*\$		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 11:48 - 19:25 Flood Tide: 04:09 - 11:48 <u>Monitoring Time:</u> Mid-ebb: 13:51 - 17:21 Mid-flood: 08:00 - 11:25*\$		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 14:04 - 21:54 Flood Tide: 00:00 - 14:04 <u>Monitoring Time:</u> Mid-ebb: 16:14 - 19:00\$& Mid-flood: 09:51 - 13:21 Daytime Noise monitoring for NM1, NM2-A, NM3 & NM4				
14	15	16	17	18	19	20			
	Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 07:05 - 11:33 Flood Tide: 11:33 - 18:01 Monitoring Time: Mid-ebb: 08:00 - 11:04*\$ Mid-flood: 13:02- 16:32		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 08:00 - 13:35 Flood Tide: 13:35 - 20:16 <u>Monitoring Time:</u> Mid-ebb: 09:02 - 12:32 Mid-flood: 15:10 - 18:40	Impact Daytime Noise monitoring for NM1, NM2-A, NM3 & NM4	Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 08:55 - 15:14 Flood Tide: 15:14 - 22:10 Monitoring Time: Mid-ebb: 10:19 - 13:49 Mid-flood: 16:57 - 19:00\$&				
21	22	23	24	25	26	27			
	Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 10:23 - 17:36 Flood Tide: 02:56 - 10:23 Monitoring Time: Mid-ebb: 12:14 - 15:44 Mid-flood: 08:00 - 10:00*\$		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 11:10 - 19:20 Flood Tide: 00:00 - 11:10 <u>Monitoring Time:</u> Mid-ebb: 13:30 - 17:00 Mid-flood: 08:00 - 10:36*\$ Daytime Noise monitoring for NM1, NM2-A, NM3 & NM4		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 11:53 - 21:06 Flood Tide: 00:00 - 11:53 Monitoring Time: Mid-ebb: 14:44 - 18:14 Mid-flood: 08:00 - 11:17*\$				
28	29	30	31						
	Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 06:39 - 10:05 Flood Tide: 10:05 - 16:07 Monitoring Time: Mid-ebb: 08:00 - 09:54*\$ Mid-flood: 11:21 - 15:51	Impact Daytime Noise monitoring for NM1, NM2-A, NM3 & NM4	Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 06:55 - 12:46 Flood Tide: 12:46 - 18:56 <u>Monitoring Time:</u> Mid-ebb: 08:05 - 11:35 * Mid-flood: 14:06 - 17:36						

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

- Note:

 ^ Monitoring cancelled due to inclement 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

	Contract No. CV/2020/09 Lei Yue Mun Waterfront Enhancement Project EM&A Monitoring Schedule								
			Jun-23						
Sun	Mon	Tue	Wed	Thu	Fri	Sat			
				1	2	3			
					Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 07:30 - 14:18 Flood Tide: 14:18 - 21:06 <u>Monitoring Time:</u> Mid-ebb: 09:09 - 12:39 Mid-flood: 15:57 - 19:00\$&				
4	5	6	7	8	9	10			
	Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 09:04 - 16:36 Flood Tide: 16:36 - 23:48 Monitoring Time: Mid-ebb: 11:05 - 14:35 Mid-flood: 16:57 - 19:00\$& Daytime Noise monitoring for NM1, NM2-A, NM3 & NM4		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 10:55 - 18:23 Flood Tide: 03:34 - 10:55 Monitoring Time: Mid-ebb: 12:54 - 16:24 Mid-flood: 08:00 - 10:32*\$		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 12:56 - 20:15 Flood Tide: 05:13 - 12:56 <u>Monitoring Time:</u> Mid-ebb: 14:50 - 18:20 Mid-flood: 08:00 - 10:49*\$				
11	12	13	14	15	16	17			
	Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 16:38 - 22:40 Flood Tide: 09:56 - 16:38 Monitoring Time: Mid-ebb: 16:56 - 19:00\$& Mid-flood: 11:32- 15:02		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 06:47 - 12:36 Flood Tide: 12:36 - 19:12 Monitoring Time: Mid-ebb: 08:00 - 11:26*\$ Mid-flood: 14:09 - 17:39		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 07:05 - 14:27 Flood Tide: 14:27 - 21:33 <u>Monitoring Time:</u> Mid-ebb: 09:23 - 12:53 Mid-flood: 16:15 - 19:00\$& Daytime Noise monitoring for NM1, NM2-A, NM3 & NM4				
18	19	20	21	22	23	24			
	Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 09:23 - 16:49 Flood Tide: 16:49 - 23:47 Monitoring Time: Mid-ebb: 11:21 - 14:51 Mid-flood: 17:09 - 19:00\$&		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Idal Period: Ebb Tide: 10:25 - 18:11 Flood Tide: 02:33 - 10:25 Monitoring Time: Mid-ebb: 12:33 - 16:03 Mid-flood: 08:00 - 10:01*\$		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 10:50 - 19:25 Flood Tide: 00:00 - 10:50 <u>Monitoring Time:</u> Mid-ebb: 13:22 - 16:52 Mid-flood: 08:00 - 10:17*\$	Impact Daytime Noise monitoring for NM1, NM2-A, NM3 & NM4			
25	26	27	28	29	30				
	Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 13:04 - 21:38 Flood Tide: 07:32 - 13:04 Monitoring Time: Mid-ebb: 15:26 - 18:56 Mid-flood: 08:33 - 12:03	Impact Daytime Noise monitoring for NM1, NM2-A, NM3 & NM4	Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 05:14 - 10:59 Flood Tide: 10:59 - 17:05 <u>Monitoring Time:</u> Mid-ebb: 08:00 - 10:41*\$ Mid-flood: 12:17 - 15:47		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 06:03 - 13:23 Flood Tide: 13:23 - 20:09 <u>Monitoring Time:</u> Mid-ebb: 08:00 - 11:28*\$ Mid-flood: 15:01 - 18:31				

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

- Note:

 ^ Monitoring cancelled due to inclement 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





Appendix D Event/Action Plan for Noise Exceedance





EVENT	0	ACT	TION	
	ET	IEC	ER	Contractor
Action Level	 Notify IEC, ER and Contractor; Carry out investigation; Report the results of investigation to the IEC, ER and Contractor; Discuss with the Contractor and formulate remedial measures; and Increase monitoring frequency to check mitigation effectiveness. 	Review the analysed results submitted by the ET; Review the proposed remedial measures by the Contractor and advise the ER accordingly; and Supervise the implementation of remedial measures.	Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; and Ensure remedial measures are properly implemented.	Submit noise mitigation proposals to IEC, ET and ER; and Implement noise mitigation proposals.
Limit	 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.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures properly implemented; and 5. 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 No. D224349E



CALIBRATION CERTIFICATE

Product : SOUND CALIBRATOR

Type : NC-75

Serial number : 34724243

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 99.9 kPa

Calibration date : 05/07/2022 (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: 11/07/2022 (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.



Certificate No. D224349E

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

M	Measurement
Measured value	uncertainty (k=2)
1000.0 Hz	$3.9 \times 10^{-4} \mathrm{Hz}$

Working measurement standard universal counter:

Type

: 53132A

Serial number : MY40005574

(JCSS Calibration Certificate No. 21081499079575510)

2. Total distortion

Measured	
value	1200
0.2 %	

Working measurement standard distortion meter:

: VA-2230A

Serial number : 11076061

(A2LA Calibration Certificate No. 1501-03080)

- closing -



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.

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

Calibrated by: Calibration Technician

Certified by:

Mr. Ng Yan Wa Vaboratory Manager

Date of issue: 09 November 2022

Certificate No.: APJ22-095-CC001

Page 1 of 3



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:

Type

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)			App	lied 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	

Certificate No.: APJ22-095-CC001



Page 2 of 3

Homepage: http://www.aa-lab.com

E-mail: inquiry@aa-lab.com

Frequency Response

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	55.3	-39.4 ±2.0
			Fast	94	63	68.6	-26.2 ±1.5
		BA SPL			125	77.8	-16.1 ±1.5
43-138	dBA				250	85.3	-8.6 ±1.4
43-136	ubA	SIL			500	90.7	-3.2 ±1.4
					1000	94.0	Ref
					2000	94.9	+1.2±1.6
					4000	93.9	+1.0 ±1.6

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	± 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



Page 3 of 3

Certificate of Calibration

for

Description:

Sound Level Meter

Manufacturer:

NTi Audio

Type No.:

XL2 (Serial No.: A2A-13548-E0)

Microphone:

ACO 7052 (Serial No.:73912)

Preamplifier:

NTi Audio M2211 MA220 (Serial No.:5735)

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 – 8kHz)

☐ Outside

the allowable tolerance.

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: 2 February 2023

Date of calibration: 6 February 2023

Date of NEXT calibration: 5 February 2024

Calibrated by:

Calibration Technician

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Date of issue: 6 February 2023

Certificate No.: APJ22-124-CC001

Page 1 of 4

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:

23.9 °**C**

Air Pressure:

1006 hPa

Relative Humidity:

47.9 %

3. Calibration Equipment:

Type

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. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	Fast	94	1000	94.1	±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		94.1	Ref
30-130	dBA	SPL	Fast	104	1000	104.1	±0.3
				114		114.1	±0.3

Time Weighting

Setting of Unit-under-test (UUT)		Applied value		UUT Reading,	IEC 61672 Class 1		
Range, dB	Freq. V	Weighting	Time Weighting	Level, dB Frequency, Hz		dB	Specification, dB
30-130	dBA	SPL	Fast	94	1000	94.1	Ref
50 150	dD/1	51 L	Slow	94	1000	94.1	±0.3

Certificate No.: APJ22-124-CC001

(A+A) *L Page 2 of 4

Homepage: http://www.aa-lab.com

E-mail: inquiry@aa-lab.com



Frequency Response

Linear Response

Sett	Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Wo	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	94.1	±2.0
					63	94.2	±1.5
					125	94.1	±1.5
					250	94.1	±1.4
30-130	dB	SPL	Fast	94	500	94.2	±1.4
					1000	94.1	Ref
					2000	94.5	±1.6
					4000	95.2	±1.6
					8000	94.9	+2.1; -3.1

A-weighting

Sett	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	54.8	-39.4 ±2.0
					63	68.0	-26.2 ±1.5
					125	78.0	-16.1 ±1.5
					250	85.5	-8.6 ± 1.4
30-130	dBA	SPL	Fast	94	500	91.0	-3.2 ±1.4
					1000	94.1	Ref
					2000	95.7	+1.2 ±1.6
					4000	96.2	+1.0±1.6
					8000	93.9	-1.1+2.1; -3.1

C-weighting

Sett	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	91.2	-3.0 ±2.0
					63	93.4	-0.8 ±1.5
					125	94.0	-0.2 ±1.5
					250	94.1	-0.0 ± 1.4
30-130	dBC	SPL	Fast	94	500	94.2	-0.0 ± 1.4
					1000	94.1	Ref
					2000	94.3	-0.2 ±1.6
					4000	94.4	-0.8 ±1.6
					8000	92.0	-3.0 +2.1: -3.1

Certificate No.: APJ22-124-CC001



Page 3 of 4



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	± 0.05
	500 Hz	± 0.10
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.05
	8000 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.: APJ22-124-CC001







Appendix F Noise Monitoring Results





Location NM1 - Village	Location NM1 - Village house in Lei Yue Mun Hoi Pong Road Central					
			Unit: dB (A) (30-mins)			
Date	Time	Weather	Measured Noise Level		Level	
			Leq	L ₁₀	L ₉₀	
2023-05-06	11:25	Fine	64.8	67.3	61.7	
2023-05-12	12:35	Fine	66.8	69.4	60.7	
2023-05-18	09:36	Fine	58.3	61.4	53.0	
2023-05-24	11:00	Cloudy	67.9	70.5	62.4	

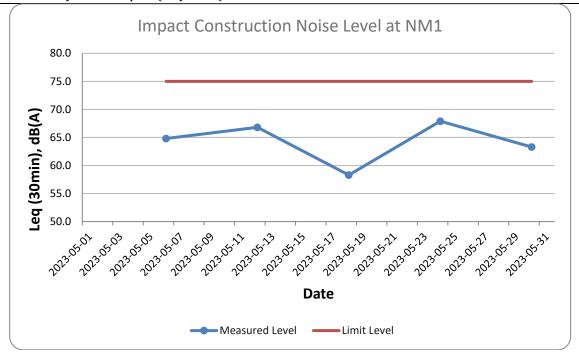
Location NM2A - No.79B, Lei Yue Mun Hoi Pong Road East					
Unit: dB (A) (30-mins)					
Date	Time	Weather	Measured Noise Level		
			L _{eq}	L ₁₀	L ₉₀
2023-05-06	10:15	Fine	57.9	60.0	52.4
2023-05-12	13:36	Fine	53.2	55.7	48.2
2023-05-18	10:09	Fine	57.4	60.2	52.3
2023-05-24	12:07	Cloudy	54.7	58.7	49.5

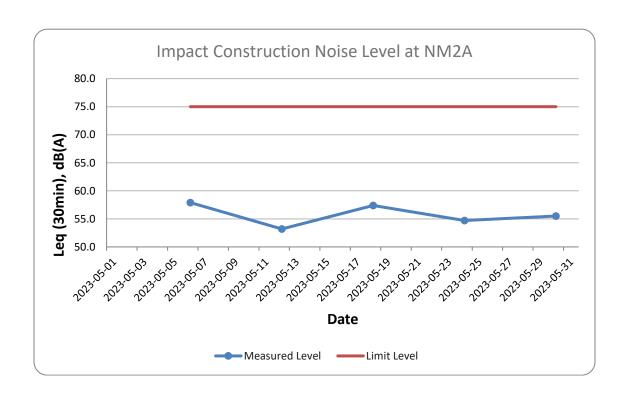
Location NM3 - Jockey Club Lei Yue Mun Plus						
			Unit: dB (A) (30-mins)			
Date	Time	Weather	Measured Noise Level			
			Leq	L ₁₀	L ₉₀	
2023-05-06	10:50	Fine	63.8	66.1	60.5	
2023-05-12	12:01	Fine	63.7	66.5	60.3	
2023-05-18	9:03	Fine	67.3	70.1	62.3	
2023-05-24	10:27	Cloudy	66.1	68.6	62.2	

Location NM4 - No. 21C, Lei Yue Mun Hoi Pong Road East						
	Unit: dB				(30-mins)	
Date	Time	Weather	Measured Noise Level			
			L_{eq}	L ₁₀	L ₉₀	
2023-05-06	9:39	Fine	66.8	69.4	62.1	
2023-05-12	13:10	Fine	67.8	70.2	64.0	
2023-05-18	10:43	Fine	57.6	60.0	55.1	
2023-05-24	11:33	Cloudy	67.6	70.1	62.0	



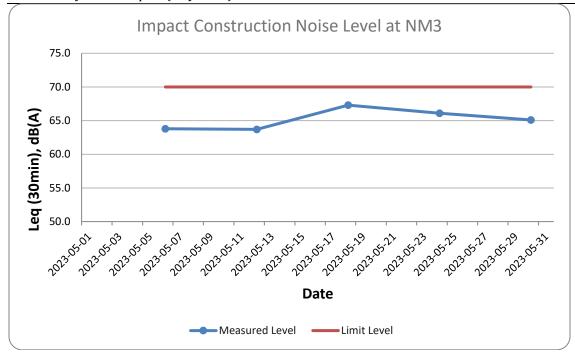


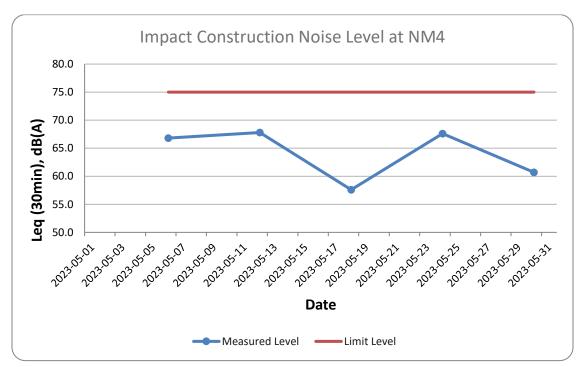
















Appendix G Event/Action Plan for Water Quality Exceedance





EVENT		AC	TION	
EVENI	ET	IEC	ER	CONTRACTOR
Action level being exceeded by one sampling day	 Repeat in-situ 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) 	1. Discuss with IEC on the proposed mitigation measures; 2. Make agreement on the mitigation measures to be implemented. 3. Assess the effectiveness of the implemented mitigation measures 4. (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 in-situ 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)	1. Discuss with IEC on the proposed mitigation measures; 2. Make agreement on the mitigation measures to be implemented; 3. Assess the effectiveness of the implemented mitigation measures. 4. (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'	TION	
EVENT	ET	IEC	ER	CONTRACTOR
Limit level being exceeded by one sampling day	 Repeat in-situ measurement to confirm findings; Identify reasons for non-compliance and source(s) of impact; Inform IEC, Contractor and EPI Check monitoring data, all plants, equipment and Contractor's working methods Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures ar implemented; Increase the monitoring frequency to daily until no exceedance of Limit level. (The above actions should be taken within 1 working day after the exceedance is identified) 	on the mitigation measures; 2. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; 3. Assess the effectiveness of the implemented mitigation measures. 4. (The above actions should be taken within 1 working day after the exceedance is identified)	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 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, IEC and ER and Propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures
Limit level being exceeded by more than one consecutive sampling day	 Repeat in-situ measurement to confirm findings; Identify reasons for non-compliance and source(s) of impact; Inform IEC, Contractor and EPI Check monitoring data, all plants, equipment and Contractor's working methods Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures ar implemented; Increase the monitoring frequency to daily until no exceedance of Limit level for 2 consecutive days. (The above actions should be taken within 1 working day after 	on the mitigation measures; 2. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; 3. Assess the effectiveness of the implemented mitigation measures. 4. (The above actions should be taken within 1 working day after the exceedance is identified)	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 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	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 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.





Appendix H Water Quality Monitoring Equipment Calibration Certificate



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

Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email:info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BC030016

Date of Issue

: 10 March 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:

22D100436

Date of Received:

08 March 2023

Date of Calibration:

09 March 2023

Date of Next Calibration :

08 June 2023

Request No.:

D-BC030016

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter

Reference Method

pH value

APHA 21e 4500 H+

Temperature

Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March

2008: Working Thermometer Calibration Procedure

Salinity

APHA 21e 2520 B

Dissolved oxygen

APHA 21e 4500 O

Turbidity

APHA 21e 2130 B

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.09	0.09	Satisfactory
7.42	7.43	0.01	Satisfactory
10.01	10.03	0.02	Satisfactory

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

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
13	12.8	0.3	Satisfactory
22	22.2	0.2	Satisfactory
34	34.5	0.5	Satisfactory

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

(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	9.72	-2.80	Satisfactory
20	19.65	-1.75	Satisfactory
30	29.95	-0.17	Satisfactory

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

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun-ning
Assistant Manager (Chemical Testing)



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

Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email:info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BC030016

Date of Issue

: 10 March 2023

Page No.

: 2 of 2

(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
8.59	8.75	0.16	Satisfactory
5.62	5.95	0.33	Satisfactory
3.41	3.52	0.11	Satisfactory
0.10	0.20	0.10	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	0.39		Satisfactory
10	9.95	-0.5	Satisfactory
20	19.02	-4.9	Satisfactory
100	99.67	-0.3	Satisfactory
800	781.24	-2.3	Satisfactory

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

Remark(s)

- 'The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.
- ·The results relate only to the calibrated equipment as received
- •The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
- "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
- ·The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

--- END OF REPORT ---



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

Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email: info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BC040001

Date of Issue

: 03 April 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:

HORIBA U-53

Manufacturer:

HORIBA

Serial Number:

S2A98W8H

Date of Received :

29 March 2023

Date of Calibration:

03 April 2023

Date of Next Calibration :

02 July 2023

Request No.:

D-BC040001

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter

Reference Method

pH value

APHA 21e 4500 H+

Temperature

Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March

2008: Working Thermometer Calibration Procedure

Salinity

APHA 21e 2520 B

Dissolved oxygen

APHA 21e 4500 O

Turbidity

APHA 21e 2130 B

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Booding (pH unit)	Tolerance	Result
rarget (pri unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.04	0.04	Satisfactory
7.42	7.39	-0.03	Satisfactory
10.01	10.10	0.09	Satisfactory

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

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
15	15.84	0.84	Satisfactory
23	23.99	0.99	Satisfactory
33	33.38	0.38	Satisfactory

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

(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	9.46	-5.40	Satisfactory
20	19.84	-0.80	Satisfactory
30	30.07	0.23	Satisfactory

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

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun-ning

Assistant Manager (Chemical Testing)



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

Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email: info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BC040001

Date of Issue

: 03 April 2023

Page No.

: 2 of 2

(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
7.69	7.68	-0.01	Satisfactory
6.77	6.49	-0.28	Satisfactory
3.85	3.93	0.08	Satisfactory
0.07	0.18	0.11	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	0.33		Satisfactory
10	10.3	3.0	Satisfactory
20	20.1	0.5	Satisfactory
100	102	2.0	Satisfactory
800	773	-3.4	Satisfactory

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

Remark(s)

- 'The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.
- ·The results relate only to the calibrated equipment as received
- 'The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
- "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
- 'The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

--- END OF REPORT ---



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

Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email: info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BC040109

Date of Issue

: 25 April 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:

18 April 2023

Date of Calibration:

25 April 2023

Date of Next Calibration:

24 July 2023

Request No.:

D-BC040109

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter

Reference Method

pH value

APHA 21e 4500 H+

Temperature

Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March

2008: Working Thermometer Calibration Procedure

Salinity

APHA 21e 2520 B

Dissolved oxygen

APHA 21e 4500 O

Turbidity

APHA 21e 2130 B

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.10	0.10	Satisfactory
7.42	7.50	0.08	Satisfactory
10.01	10.01	0.00	Satisfactory

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

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
10	10.5	0.5	Satisfactory
23	23.1	0.1	Satisfactory
35	34.4	-0.1	Satisfactory

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

(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	9.81	-1.90	Satisfactory
20	20.47	2.35	Satisfactory
30	31.31	4.37	Satisfactory

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

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun-ning
Assistant Manager (Chemical Testing)



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

Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email: info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BC040109

Date of Issue

: 25 April 2023

Page No.

: 2 of 2

(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
8.07	8.08	0.01	Satisfactory
5.10	4.80	-0.30	Satisfactory
2.06	2.17	0.11	Satisfactory
0.24	0.37	0.13	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	0.74		Satisfactory
10	9.60	-4.00	Satisfactory
20	18.94	-5.30	Satisfactory
100	95.17	-4.80	Satisfactory
800	752.06	-6.00	Satisfactory

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

Remark(s)

- 'The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.
- ·The results relate only to the calibrated equipment as received
- 'The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
- "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
- 'The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

--- END OF REPORT ---





Appendix I Water Quality Monitoring Results

1			ı	1			1		1				1		ı	
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 C1	20230501 20230501	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	8:25 8:25	8.5 8.5		32.61 32.67	24.60 24.67	2.84 2.91	2.5	0.296 0.267	SE SE	/
C1	20230501	Cloudy	Moderate	Mid-Ebb	Middle	9.8	8:24	8.	7 8.2	32.54	24.51	3.17	2.5	0.293	SE	/
C1 C1	20230501	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	9.8 18.6	8:24 8:23	8.7 8.7			24.62 24.65	2.92 3.15	2.5	0.282 0.273	SE SE	/
C1	20230501	Cloudy	Moderate	Mid-Ebb	Bottom	18.6	8:23	8.6	3 8.23	32.50	24.61	2.94	2.5	0.298	E	/
C2 C2	20230501 20230501	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	9:34 9:34	8.2 8.3		31.74 32.01	24.68 24.55	2.41	2.5	0.298 0.272	SE SE	/
C2	20230501	Cloudy	Moderate	Mid-Ebb	Middle	11.9	9:33	8.	3 8.27	31.88	24.61	2.57	2.5	0.289	E	/
C2 C2	20230501 20230501	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	11.9 22.8	9:33 9:32	8.3 8.3		31.76 31.89	24.59 24.52	2.48 2.67	2.5	0.293 0.290	SE SE	/
C2	20230501	Cloudy	Moderate	Mid-Ebb	Bottom	22.8	9:32	8.2		31.78	24.66	2.59	2.5	0.265	E	/
M1 M1	20230501 20230501	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	8:59 8:59	8.3 8.3		32.69 32.46	24.37 24.47	2.49 2.36	2.5	0.276 0.289	SE E	/
M1	20230501	Cloudy	Moderate	Mid-Ebb	Middle	3.3	8:58	8.3		32.45	24.47	2.53	2.5	0.289	E	/
M1 M1	20230501 20230501	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	3.3 5.6	8:58 8:57	8.3 8.3		32.67 32.59	24.51 24.46	2.5 2.11	2.5	0.271 0.281	SE	/
M1	20230501	Cloudy	Moderate	Mid-Ebb	Bottom	5.6	8:57	8.3		32.57	24.51	2.14	2.5	0.282	E	/
M2 M2	20230501 20230501	Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	8:42 8:42	8.7 8.8		33.09 32.88	24.34 24.39	2.28 2.08	2.5	0.273 0.287	SE	/
M2 M2	20230501 20230501	Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Middle	6.75 6.75	8:41 8:41	8.8		32.99 32.89	24.46 24.39	2.24 2.07	2.5	0.270 0.273	SE	/
M2	20230501	Cloudy	Moderate	Mid-Ebb	Bottom	12.5	8:40	8.7			24.33	2.2	2.5	0.273	E	/
M2 M3	20230501 20230501	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Surface	12.5	8:40 9:16	8.8 8.5		32.84 32.72	24.34 24.49	1.97 2.14	2.5	0.266 0.289	SE	/
M3	20230501	Cloudy	Moderate	Mid-Ebb	Surface	1	9:16	8.5		32.72	24.51	2.28	2.5	0.295	SE	/
M3 M3	20230501 20230501	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Middle	4	9:15 9:15	8.5 8.4		32.66 32.59	24.42 24.49	2.21 2.45	2.5	0.298 0.290		/
M3	20230501	Cloudy	Moderate	Mid-Ebb	Bottom	7	9:14	8.5	1 8.19	32.54	24.49	2.08	2.5	0.274	E	/
M3 M4	20230501 20230501	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Surface	7	9:14 10:09	8. 9.1		32.65 31.67	24.43 24.60	2.42 2.56	2.5	0.270 0.269		/
M4	20230501	Cloudy	Moderate	Mid-Ebb	Surface	1	10:09	8.	9 8.3	31.56	24.61	2.17	2.5	0.277	E	/
M4 M4	20230501 20230501	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Bottom	3.9 3.9	10:08 10:08	9.1 8.9		31.87 31.83	24.63 24.67	2.38 2.45	2.5	0.297 0.290		/
C1	20230503	Sunny	Moderate	Mid-Ebb	Surface	1	9:17	9.2	9 8.24	32.71	24.93	3.66	2.5	0.270	SE	/
C1 C1	20230503	Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Middle	11.25	9:17 9:16	9.1		32.74 32.82	25.09 25.12	3.91 3.70	2.5	0.300 0.271	SE SE	/
C1	20230503	Sunny	Moderate	Mid-Ebb	Middle	11.25	9:16	9.1	6 8.24	32.68	25.13	3.91	2.5	0.265	E	/
C1 C1	20230503 20230503	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Bottom	21.5 21.5	9:15 9:15	9.1 9.1		32.77 32.89	24.99 25.05	4.01 3.92	2.5	0.269 0.267	E SE	/
C2	20230503	Sunny	Moderate	Mid-Ebb	Surface	1	10:26	9.1		32.73	25.02	3.40	2.5	0.278	E	/
C2 C2	20230503 20230503	Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Middle	10.95	10:26 10:25	9.1 9.1		32.74 32.95	24.96 24.91	3.43 3.73	2.5	0.299 0.286	SE E	/
C2	20230503	Sunny	Moderate	Mid-Ebb	Middle	10.95	10:25	9.1	3 8.19	32.85	24.92	3.59	2.5	0.299	E	/
C2 C2	20230503 20230503	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Bottom	20.9	10:24 10:24	9.0 8.9		32.91 32.86	24.92 24.80	3.65 3.70	2.5	0.267 0.301	SE	/
M1	20230503	Sunny	Moderate	Mid-Ebb	Surface	1	9:50	8.2		33.33	24.85	1.96	2.5	0.281	SE	/
M1 M1	20230503 20230503	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Middle	3.2	9:50 9:49	8.3 8.2		33.38 33.48	24.71 24.81	2.21 2.11	2.5 2.5	0.282 0.293	E	/
M1 M1	20230503	Sunny	Moderate	Mid-Ebb Mid-Ebb	Middle	3.2 5.4	9:49 9:48	8.2		33.44 33.35	24.75 24.76	2.27	2.5 2.5	0.274 0.277	E	/
M1	20230503 20230503	Sunny Sunny	Moderate Moderate	Mid-Ebb	Bottom Bottom	5.4	9:48	8.2 8.2		33.30	24.76	2.16 2.18	2.5	0.277	SE	/
M2 M2	20230503 20230503	Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	9:34 9:34	8.6 8.4		32.70 32.89	24.84 24.98	3.22 2.91	2.5	0.295 0.280	SE SE	/
M2	20230503	Sunny	Moderate	Mid-Ebb	Middle	7.05	9:33	8.5		32.79	24.96	2.81	2.5	0.264	SE	/
M2 M2	20230503	Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	7.05 13.1	9:33 9:32	8.6 8.6		32.83 32.71	25.01 24.99	2.84 3.04	2.5 2.5	0.269 0.286	SE SE	/
M2	20230503	Sunny	Moderate	Mid-Ebb	Bottom	13.1	9:32	8.5	6 8.17	32.86	24.92	2.93	2.5	0.288	E	/
M3 M3	20230503 20230503	Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	10:08 10:08	8.4 8.3		32.40 32.37	24.85 24.85	2.38 2.37	2.5	0.263 0.267	SE SE	/
M3	20230503	Sunny	Moderate	Mid-Ebb	Middle	3.7	10:07	8.5	0 8.17	32.25	24.86	2.38	2.5	0.267	E	/
M3 M3	20230503	Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	3.7 6.4	10:07 10:06	8.3 8.4		32.11 32.40	24.91 24.98	2.46 2.53	2.5	0.275 0.281	SE E	/
M3	20230503	Sunny	Moderate	Mid-Ebb	Bottom	6.4	10:06	8.3		32.23	24.78	2.58	2.5	0.272	E	/
M4 M4	20230503	Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	10:57 10:57	8.8		32.71 32.60	24.90 24.94	3.62 3.19	2.5	0.283 0.281	SE E	/
M4	20230503	Sunny	Moderate	Mid-Ebb	Bottom	3.9	10:56	8.8		32.68	24.98	3.51	2.5	0.293		/
M4 C1	20230503 20230505		Moderate Mderate	Mid-Ebb Mid-Ebb	Bottom Surface	3.9	10:56 10:16	8.7 8.2			25.03 25.10	3.44 3.43	2.5 2.5	0.300 0.295		/
C1 C1	20230505	Sunny	Mderate Mderate	Mid-Ebb Mid-Ebb	Surface Middle	1 10.6	10:16 10:15	8.3 8.3	8 8.39	31.96	25.05 25.13	3.58	2.5 2.5	0.270 0.295	SE	/
C1 C1	20230505	Sunny	Mderate Mderate	Mid-Ebb Mid-Ebb	Middle Middle	10.6	10:15	8.3 8.4		32.21 32.08	25.13 25.06	3.72 3.66	2.5	0.295		/
C1 C1		Sunny	Mderate Mderate	Mid-Ebb Mid-Ebb	Bottom	20.2 20.2	10:14 10:14	8.4 8.2	0 8.35	32.11 32.24	25.20 25.08	3.87 3.94	2.5 2.5	0.299 0.287	SE SE	/
C2	20230505	Sunny Sunny	Mderate	Mid-Ebb	Bottom Surface	20.2	11:31	8.4	5 8.27	32.04	25.07	2.67	2.5	0.284		/
C2 C2	20230505 20230505	Sunny	Mderate Mderate	Mid-Ebb Mid-Ebb	Surface Middle	1 12.05	11:31 11:30	8.6 8.5		31.80 32.00	24.95 25.03	2.58 2.94	2.5 2.5	0.292 0.285	E	/
C2	20230505	Sunny	Mderate	Mid-Ebb	Middle	12.05	11:30	8.6	3 8.28	31.95	25.16	2.82	2.5	0.285	SE	/
C2 C2	20230505 20230505	Sunny Sunny	Mderate Mderate	Mid-Ebb Mid-Ebb	Bottom Bottom	23.1 23.1	11:29 11:29	8.6 8.5		31.95 31.91	25.05 25.05	2.95 3.19	2.5 2.5	0.301 0.290		/
M1	20230505	Sunny	Mderate	Mid-Ebb	Surface	23.1	10:54	8.4	2 8.38	32.19	25.17	2.66	2.5	0.291		/
M1 M1	20230505 20230505	Sunny	Mderate Mderate	Mid-Ebb Mid-Ebb	Surface Middle	3.65	10:54 10:53	8.4 8.3		31.80 32.00	25.01 25.14	2.99 2.72	2.5 2.5	0.276 0.277	E E	/
M1	20230505	Sunny	Mderate	Mid-Ebb	Middle	3.65	10:53	8.4	4 8.40	32.02	25.10	2.34	3	0.272	SE	/
M1 M1	20230505 20230505	Sunny Sunny	Mderate Mderate	Mid-Ebb Mid-Ebb	Bottom Bottom	6.3 6.3	10:52 10:52	8.4 8.4		32.05 31.99	25.00 25.14	2.59 2.90	2.5 2.5	0.270 0.278		/
M2	20230505	Sunny	Mderate	Mid-Ebb	Surface	1	10:37	8.4	6 8.27	33.33	25.19	3.34	2.5	0.287	E	/
M2 M2	20230505 20230505	Sunny Sunny	Mderate Mderate	Mid-Ebb Mid-Ebb	Surface Middle	6.9	10:37 10:36	8.4 8.3		33.39 33.22	25.17 25.02	3.51 3.17	4	0.292 0.290		/
M2	20230505	Sunny	Mderate	Mid-Ebb	Middle	6.9	10:36	8.4	8 8.33	33.31	25.07	3.19	2.5	0.285	SE	/
M2 M2	20230505 20230505	Sunny Sunny	Mderate Mderate	Mid-Ebb Mid-Ebb	Bottom Bottom	12.8 12.8	10:35 10:35	8.4 8.3		33.30 33.05	25.24 25.12	3.28 3.50	2.5	0.277 0.287		/
M3	20230505	Sunny	Mderate	Mid-Ebb	Surface	1	11:12	8.2	5 8.35	33.27	25.14	2.89	2.5	0.291	SE	/
M3 M3	20230505 20230505	Sunny Sunny	Mderate Mderate	Mid-Ebb Mid-Ebb	Surface Middle	3.85	11:12 11:11	8.2 8.1		33.02 33.21	25.16 25.13	2.91 2.75	2.5	0.272 0.274	E E	/
M3	20230505	Sunny	Mderate	Mid-Ebb	Middle	3.85	11:11	8.2	0 8.32	33.38	25.15	2.88	2.5	0.265	E	/
M3 M3	20230505 20230505	Sunny	Mderate Mderate	Mid-Ebb Mid-Ebb	Bottom Bottom	6.7	11:10 11:10	8.1 8.1		33.20 33.05	25.26 25.23	2.67 2.77	2.5	0.266 0.274		/
M4	20230505	Sunny	Mderate	Mid-Ebb	Surface	1	12:05	7.9	7 8.33	32.96	24.89	2.14	2.5	0.276	SE	/
M4 M4	20230505 20230505	Sunny Sunny	Mderate Mderate	Mid-Ebb Mid-Ebb	Surface Bottom	4.7	12:05 12:04	8.1 8.0		32.93 32.83	24.85 24.98	2.27 2.36	2.5	0.269 0.298		/
M4	20230505	Sunny	Mderate	Mid-Ebb	Bottom	4.7	12:04	8.1	2 8.28	32.83	25.02	2.52	2.5	0.264		/
C1 C1	20230508 20230508	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	12:08 12:08	9.2			24.70 24.64	3.47 3.49	2.5	0.281 0.299	SE SE	/
C1	20230508	Cloudy	Moderate	Mid-Ebb	Middle	9.7	12:07	9.1	6 8.23	33.64	24.67	3.64	3	0.274	SE	/
C1 C1	20230508 20230508	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	9.7 18.4	12:07 12:06	9.1		33.75 33.68	24.78 24.61	3.63 3.76		0.281 0.263		/
				•									•		•	

	0.28 0.27	
George Content Montener Monte	0.27	
George Content Conte		
C.	0.28	
Second Blooks Monteres Monte Decomp 24.1 31.02 31.01 31.41 25.56 21.0 2	0.26	
STATES Goody Montemark Mark Bay Montemark 1, 12-22 17, 132 135 12-68 2-73 188 2-55 2-55	0.26	
Mathematics	0.26	
Mathematics	0.27	
Mathematics	0.28	
STATE STAT	0.26	
March March Moderne	0.29	
March Moderne	0.26	
Mathematics Modernite Mo	0.27	L SE /
Mathematics Modernite Mo	0.28	S SE /
Math	0.28	B SE /
Math	0.27	7 E /
Math	0.26	
Math 20230068 Couchy Moderate Mole Ebb Surface 1 1353 2.00 33.00 24.37 2.57 2.5 2.5 2.0	0.27	
MAX 20230508 Coucy	0.28	
Math 20/20/006 Coucly Modernate Mode Bib Bortons	0.26	
Math 20238050 County Moderate Mode 58b Surface 1 13-52 8.09 8.14 23-26	0.27	
Company	0.29	
Column	0.29	
Columb	0.27	
C1 20230510 Cloudy Moderate Mod-Ebb Bottom 20.4 1351 8.88 8.14 33.40 25.86 3.49 2.5	0.26	B SE /
C2	0.28	
C2 20230510 Cloudy Moderate Mid-Ebb Surface 1 15:00 8.37 8.36 8.32 25:80 2.70 2.5	0.27 0.26) E /
C2 20230510 Cloudy Moderate Mol-Ebb Molele 10.9 14-99 8.46 8.25 33.34 25.76 2.56 2.5	0.26	B SE /
C2 202330510 Cloudy Moderate Mod-Ebb Bottom 20.8 14.58 8.51 8.26 33.75 25.89 2.32 2.5 M1 202330510 Cloudy Moderate Mod-Ebb Surface 1 14.24 8.78 8.17 33.43 25.84 3.09 2.5 M1 202330510 Cloudy Moderate Mod-Ebb Mod-Ebb Moderate Mod-Ebb Moderate Mod-Ebb Moderate Mod-Ebb Mod-Ebb Moderate Mod-Ebb Moderate Mod-Ebb Moderate Mod-Ebb Mod-Ebb Moderate Mod-Ebb Moderate Mod-Ebb Moderate Mod-Ebb Moderate Mod-Ebb Stote 8.51 8.22 3.34.6 2.58.8 3.03 2.5 Moderate Moderate Mod-Ebb Stote Moderate Mod-Ebb Moderate Mod-Ebb Moderate Mod-Ebb Moderate Mod-Ebb Moderate Mod-Ebb Moderate Mod-Ebb Mod-Ebb Moderate Mod-Ebb Mod-Ebb Mod-Ebb Moderate Mod-Ebb	0.26	
Mil	0.28	
M1 20239510 Cloudy Moderate Mid-Ebb Surface 1 14:24 8.63 8.25 33.58 25.81 2.75 2.5 M11 20239510 Cloudy Moderate Mid-Ebb Middle 3.5 14:23 8.66 8.28 33.46 25.88 2.73 3 3 M1 20239510 Cloudy Moderate Mid-Ebb Suttom 6 14:22 8.65 8.28 33.46 25.85 3.03 2.5 M11 20239510 Cloudy Moderate Mid-Ebb Suttom 6 14:22 8.65 8.28 33.96 25.95 2.78 2.5 M1 20239510 Cloudy Moderate Mid-Ebb Suttom 6 14:22 8.65 8.28 33.90 25.95 2.78 2.5 M1 20239510 Cloudy Moderate Mid-Ebb Suttom 6 14:22 8.75 8.26 33.99 25.95 2.78 2.5 M2 20239510 Cloudy Moderate Mid-Ebb Surface 1 14:10 8.51 8.12 33.41 25.95 2.80 2.5 M2 20239510 Cloudy Moderate Mid-Ebb Surface 1 14:10 8.51 8.22 33.44 25.95 3.03 2.5 M2 20239510 Cloudy Moderate Mid-Ebb Middle 6.5 14:00 8.51 8.22 33.77 25.98 2.73 3.5 M2 20239510 Cloudy Moderate Mid-Ebb Middle 6.5 14:00 8.51 8.22 33.77 25.98 2.73 2.5 M2 20239510 Cloudy Moderate Mid-Ebb Middle 6.5 14:00 8.51 8.22 33.77 25.98 2.73 2.5 M3 2.2039510 Cloudy Moderate Mid-Ebb Middle 6.5 14:00 8.51 8.22 33.77 25.98 2.73 2.5 M3 2.2039510 Cloudy Moderate Mid-Ebb Surface 1 14:01 8.51 8.22 33.77 25.98 2.73 2.5 M3 2.2039510 Cloudy Moderate Mid-Ebb Surface 1 14:01 8.51 8.23 33.71 25.80 2.21 2.5 M3 2.2039510 Cloudy Moderate Mid-Ebb Surface 1 14:01 8.51 8.20 33.70 25.57 2.21 2.5 M3 2.2039510 Cloudy Moderate Mid-Ebb Surface 1 14:41 8.58 8.13 3.31 25.75 2.22 2.5 M3 2.2039510 Cloudy Moderate Mid-Ebb Surface 1 14:41 8.58 8.10 3.31 25.75 2.21 2.5 M3 2.2039510 Cloudy Moderate Mid-Ebb Surface 1 14:41 8.58 8.10 3.31 25.75 2.20 2.5 M3 2.2039510 Cloudy Moderate Mid-Ebb Surface 1 15:33 8.58 8	0.28	2 E /
M1	0.29	
M1	0.27	
M1	0.28	
M2	0.30	D SE /
M2	0.27	S SE /
M2 20230510 Cloudy Moderate Mid-Ebb Bottom 12 14:08 8:51 8:22 33.77 25.94 2.73 2.5 M2 20230510 Cloudy Moderate Mid-Ebb Bottom 12 14:08 8:51 8:20 33.76 25:85 2.95 2.5 M3 20230510 Cloudy Moderate Mid-Ebb Surface 1 14:41 8:58 8:17 33.71 25:80 2.81 2.5 M3 20230510 Cloudy Moderate Mid-Ebb Surface 1 14:41 8:58 8:17 33.71 25:80 2.81 2.5 M3 20230510 Cloudy Moderate Mid-Ebb Surface 1 14:41 8:58 8:17 33.71 25:57 2.22 2.5 M3 20230510 Cloudy Moderate Mid-Ebb Surface 1 14:41 8:58 8:17 33.72 25:57 2.22 2.5 M3 20230510 Cloudy Moderate Mid-Ebb Surface 1 14:41 8:40 8:36 8:17 33.20 25:67 2.19 2.5 M3 20230510 Cloudy Moderate Mid-Ebb Middle 3:8 14:40 8:36 8:17 33.23 25:76 2.07 2.5 M3 20230510 Cloudy Moderate Mid-Ebb Bottom 6:6 14:39 8:39 8:16 33:33 25:78 2.38 2.5 M3 20230510 Cloudy Moderate Mid-Ebb Bottom 6:6 14:39 8:39 8:16 33:33 25:73 2:38 2.5 M4 20230510 Cloudy Moderate Mid-Ebb Surface 1 15:33 8:98 8:16 32:79 25:69 2:74 2:5 M4 20230510 Cloudy Moderate Mid-Ebb Surface 1 15:33 9:00 8:22 32:93 25:63 2:90 2:5 M4 20230510 Cloudy Moderate Mid-Ebb Surface 1 15:33 9:00 8:22 32:93 25:63 2:90 2:5 M4 20230510 Cloudy Moderate Mid-Ebb Surface 1 15:33 8:98 8:16 32:79 25:69 2:74 2:5 M4 20230510 Cloudy Moderate Mid-Ebb Surface 1 15:33 8:98 8:18 3:27 3:28 2:5 2:5 2:5 M4 20230510 Cloudy Moderate Mid-Ebb Surface 1 15:33 8:98 8:18 3:27 3:28 2:5 3:29	0.26	E /
M3	0.29	
M3 20230510 Cloudy Moderate Mid-Ebb Surface 1 14:41 8.58 8.17 33.17 25.75 2.22 2.5	0.26	
M3	0.26	
M3 20230510 Cloudy Moderate Mid-Ebb Middle 3.8 14:40 8.64 8.20 33.12 25:69 2.45 2.5	0.27	E /
M3	0.26	
M4	0.29	
M4 20230512 Cloudy Moderate Mid-Ebb Bottom 4.1 15:32 9.14 8.21 32.86 25.64 2.55 2.5 M4 20230510 Cloudy Moderate Mid-Ebb Bottom 4.1 15:32 9.14 8.21 32.86 25.64 2.55 2.5 M4 20230512 Cloudy Moderate Mid-Ebb Bottom 4.1 15:32 8.96 8.22 32.88 25.76 2.94 2.5 C1 20230512 Cloudy Moderate Mid-Ebb Surface 1 16:16 8.45 8.24 32.00 25.96 3.94 2.5 C1 20230512 Cloudy Moderate Mid-Ebb Middle 11.1 16:15 8.46 8.22 31.72 26.01 3.84 2.5 C1 20230512 Cloudy Moderate Mid-Ebb Middle 11.1 16:15 8.46 8.22 31.76 25.97 3.96 2.5 C1 20230512 Cloudy Moderate Mid-Ebb Middle 11.1 16:15 8.50 8.25 32.05 26.07 3.87 2.5 C1 20230512 Cloudy Moderate Mid-Ebb Bottom 21.2 16:14 8.43 8.21 31.82 26.00 4.23 2.5 C1 20230512 Cloudy Moderate Mid-Ebb Bottom 21.2 16:14 8.43 8.27 31.78 25.88 4.03 2.5 C2 20230512 Cloudy Moderate Mid-Ebb Surface 1 17:20 8.81 8.20 32.67 26.23 3.28 3 C2 20230512 Cloudy Moderate Mid-Ebb Surface 1 17:20 8.81 8.20 32.67 26.23 3.28 3 C2 20230512 Cloudy Moderate Mid-Ebb Middle 12.7 17:19 8.72 8.20 32.71 26.12 31.13 3 C2 20230512 Cloudy Moderate Mid-Ebb Middle 12.7 17:19 8.78 8.21 32.81 26.17 3.41 3 C2 20230512 Cloudy Moderate Mid-Ebb Middle 12.7 17:19 8.78 8.21 32.81 26.17 3.41 3 3 C2 20230512 Cloudy Moderate Mid-Ebb Bottom 24.4 17:18 8.76 8.18 32.83 26.16 3.55 2.5 C2 20230512 Cloudy Moderate Mid-Ebb Bottom 24.4 17:18 8.76 8.18 32.83 26.16 3.55 2.5 C2 20230512 Cloudy Moderate Mid-Ebb Bottom 24.4 17:18 8.76 8.18 32.83 26.16 3.55 2.5 C2 20230512 Cloudy Moderate Mid-Ebb Bottom 24.4 17:18 8.76 8.18 32.83 26.16 3.55 2.5 C2 2.55 C2 2.55	0.29	
Mathematics Moderate Modera	0.28	
C1 20230512 Cloudy Moderate Mid-Ebb Surface 1 16:16 8.45 8.24 32.00 25:96 3.94 2.5	0.27	
C1	0.30	
C1	0.26	
C1 20230512 Cloudy Moderate Mid-Ebb Bottom 21.2 16:14 8.43 8.21 31.82 2.6.00 4.23 2.5 C1 20230512 Cloudy Moderate Mid-Ebb Sottom 21.2 16:14 8.43 8.27 31.78 25.88 4.03 2.5 C2 20230512 Cloudy Moderate Mid-Ebb Surface 1 17:20 8.76 8.22 32.71 26:12 3.13 3 C2 20230512 Cloudy Moderate Mid-Ebb Surface 1 17:20 8.76 8.22 32.71 26:12 3.13 3 C2 20230512 Cloudy Moderate Mid-Ebb Midele 12.7 17:19 8.76 8.21 32.81 26.17 3.41 3 C2 20230512 Cloudy Moderate Mid-Ebb Bottom 24.4 17:18 8.81 8.91 32.62 26:22 3.67 2.5	0.26	SE /
C2	0.20	t. t.
C2 20230512 Cloudy Moderate Mid-Ebb Surface 1 17:20 8.76 8.22 32.71 26.12 3.13 3 C2 20230512 Cloudy Moderate Mid-Ebb Middle 12.7 17:19 8.78 8.20 32.76 26.18 3.63 2.5 C2 20230512 Cloudy Moderate Mid-Ebb Biddle 12.7 17:19 8.78 8.21 32.81 26.17 3.41 3 C2 20230512 Cloudy Moderate Mid-Ebb Bottom 24.4 17:18 8.81 8.19 32.62 26.22 3.67 2.5 C2 20230512 Cloudy Moderate Mid-Ebb Bottom 24.4 17:18 8.76 8.18 32.83 26.16 3.55 2.5 M1 20230512 Cloudy Moderate Mid-Ebb Surface 1 16:46 8.43 8.32 32.49 26:32 2.83 2.5 M1 20230512 Cloudy Moderate Mi	0.27	
C2 20230512 Cloudy Moderate Mid-Ebb Middle 12.7 17:19 8.72 8.20 32.76 26.18 3.63 2.5 C2 20230512 Cloudy Moderate Mid-Ebb Mid-Ebb Middle 12.7 17:19 8.78 8.21 32.81 26:17 3.41 3 C2 20230512 Cloudy Moderate Mid-Ebb Bottom 24.4 17:18 8.18 18:26 26:22 3.67 2.5 M1 20230512 Cloudy Moderate Mid-Ebb Sourface 1 16:46 8.40 8.30 32.54 26:10 3.05 2.5 M1 20230512 Cloudy Moderate Mid-Ebb Surface 1 16:46 8.43 8.32 32.49 26:32 2.83 2.5 M1 20230512 Cloudy Moderate Mid-Ebb Surface 1 16:46 8.43 8.32 32.49 26:32 2.83 2.5 </td <td>0.27</td> <td></td>	0.27	
C2 20230512 Cloudy Moderate Mid-Ebb Bottom 24.4 17:18 8.81 8.19 32.62 26.22 3.67 2.5 C2 20230512 Cloudy Moderate Mid-Ebb Bottom 24.4 17:18 8.81 8.19 32.62 26.22 3.67 2.5 M1 20230512 Cloudy Moderate Mid-Ebb Surface 1 16:46 8.43 8.30 32.54 26.10 3.05 2.5 M1 20230512 Cloudy Moderate Mid-Ebb Surface 1 16:46 8.43 8.32 32.49 26.32 2.83 2.5 M1 20230512 Cloudy Moderate Mid-Ebb Mid-Ebb 3.6 16:45 8.42 8.30 32.42 26.52 2.83 2.5 M1 20230512 Cloudy Moderate Mid-Ebb Midle 3.6 16:45 8.42 8.30 32.47 26.16 3.16 2.5 M1 20230512 Cloudy Moderate	0.29	2 E /
C2 20230512 Cloudy Moderate Mid-Ebb Bottom 24.4 17:18 8.76 8.18 32.83 26.16 3.55 2.5 M1 20230512 Cloudy Moderate Mid-Ebb Surface 1 16:46 8.40 8.30 32.54 26:10 3.05 2.5 M1 20230512 Cloudy Moderate Mid-Ebb Surface 1 16:46 8.43 8.32 32.49 26:32 2.83 2.5 M1 20230512 Cloudy Moderate Mid-Ebb Middle 3.6 16:45 8.42 8.30 32.42 26:55 2.96 2.5 M1 20230512 Cloudy Moderate Mid-Ebb Biddle 3.6 16:45 8.38 8.32 32.47 26.16 3.16 2.5 M1 20230512 Cloudy Moderate Mid-Ebb Bidtom 6.2 16:44 8.30 8.28 32.48 26.14 2.89 2.5 M1 20230512 Cloudy Moderate M	0.29	
M1 20230512 Cloudy Moderate Mid-Ebb Surface 1 16:46 8.43 8.32 32.49 26.32 2.83 2.5	0.28	SE /
M1 20230512 Cloudy Moderate Mid-Ebb Middle 3.6 16.45 8.42 8.30 32.42 26.25 2.96 2.5 M1 20230512 Cloudy Moderate Mid-Ebb Middle 3.6 16.45 8.38 8.32 32.47 26.16 3.16 2.5 M1 20230512 Cloudy Moderate Mid-Ebb Bottom 6.2 16.44 8.30 8.28 32.48 26.14 2.89 2.5 M1 20230512 Cloudy Moderate Mid-Ebb Bottom 6.2 16.44 8.20 8.32 32.50 26.14 3.19 2.5 M2 20230512 Cloudy Moderate Mid-Ebb Surface 1 16.32 9.29 8.17 32.87 26.19 3.41 2.5 M2 20230512 Cloudy Moderate Mid-Ebb Surface 1 16.32 9.29 8.17 32.87 26.19 3.41 2.5 M2 20230512 Cloudy Moderate Mid-Ebb Surface 1 16.32 9.29 8.17 33.87 26.23 3.07 3 M3 M3 M3 M4 M4 M4 M4	0.26	
M1 20230512 Cloudy Moderate Mid-Ebb Middle 3.6 16.45 8.38 8.32 32.47 26.16 3.16 2.5 M1 20230512 Cloudy Moderate Mid-Ebb Bottom 6.2 16.44 8.30 8.28 32.48 26.14 2.89 2.5 M1 20230512 Cloudy Moderate Mid-Ebb Bottom 6.2 16.44 8.29 8.32 32.50 26.14 3.19 2.5 M2 20230512 Cloudy Moderate Mid-Ebb Surface 1 16:32 9.29 8.17 32.87 26.19 3.41 2.5 M2 20230512 Cloudy Moderate Mid-Ebb Surface 1 16:32 9.14 8.20 33.09 26:23 3.07 3	0.27	
M1 20230512 Cloudy Moderate Mid-Ebb Bottom 6.2 16:44 8.29 8.32 32.50 26:14 3.19 2.5 M2 20230512 Cloudy Moderate Mid-Ebb Surface 1 16:32 9.29 8.17 32.87 26:19 3.41 2.5 M2 20230512 Cloudy Moderate Mid-Ebb Surface 1 16:32 9.14 8.20 33.09 26:23 3.07 3	0.29	1 SE /
M2 20230512 Cloudy Moderate Mid-Ebb Surface 1 16:32 9.29 8.17 32.87 26.19 3.41 2.5 M2 20230512 Cloudy Moderate Mid-Ebb Surface 1 16:32 9.14 8.20 33.09 26.23 3.07 3	0.26	
	0.29	
	0.28	I SE /
M2 20230512 Cloudy Moderate Mid-Ebb Middle 6 16:31 9.25 8.20 32.95 26.32 3.23 2.5 M2 20230512 Cloudy Moderate Mid-Ebb Middle 6 16:31 9.13 8.21 32.86 26.16 3.21 2.5	0.27	
M2 20230512 Cloudy Moderate Mid-Ebb Bottom 11 16:30 9.19 8.15 33.00 26.21 3.28 2.5	0.28	L SE /
M2 20230512 Cloudy Moderate Mid-Ebb Bottom 11 16:30 9.25 8.19 33.00 26.29 2.94 2.5 M3 20230512 Cloudy Moderate Mid-Ebb Surface 1 17:01 8.85 8.30 31.87 26.06 2.84 2.5	0.29	
M3 20230512 Cloudy Moderate Mid-Ebb Surface 1 17:01 8.86 8.30 32.08 26.26 3.21 2.5	0.30	L E /
M3 20230512 Cloudy Moderate Mid-Ebb Middle 4.05 17:00 8.77 8.25 32.18 26.23 3.00 2.5	0.28	
M3 20230512 Cloudy Moderate Mid-Ebb Middle 4.05 17:00 8.74 8.28 32.06 26:21 3.13 2.5 M3 20230512 Cloudy Moderate Mid-Ebb Bottom 7.1 16:59 8.75 8.23 31:96 26:21 3.19 2.5	0.26	
M3 20230512 Cloudy Moderate Mid-Ebb Bottom 7.1 16:59 8.90 8.23 31.81 26.05 2.95 2.5	0.28) E
M4 20230512 Cloudy Moderate Mid-Ebb Surface 1 17:54 8.52 8.21 32.81 26.35 3.23 2.5 M4 20230512 Cloudy Moderate Mid-Ebb Surface 1 17:54 8.52 8.22 32.79 26.34 2.99 2.5	0.28	
M4 20230512 Cloudy Moderate Mid-Ebb Bottom 3.7 17:53 8.46 8.19 32.89 26.38 3.21 2.5	0.27	1 SE /
M4 20230512 Cloudy Moderate Mid-Ebb Bottom 3.7 17:53 8.46 8.25 32.93 26.29 3.34 2.5	0.28	S SE /
C1 20230515 Cloudy Moderate Mid-Ebb Surface 1 8:07 9.26 8.26 32.97 25.03 3.61 2.5 C1 20230515 Cloudy Moderate Mid-Ebb Surface 1 8:07 9.14 8:31 32.89 24.97 3.66 2.5	0.29	
C1 20230515 Cloudy Moderate Mid-Ebb Middle 11.4 8:06 9.29 8.28 33.07 25.02 3.56 3	0.28	SE /
C1 20230515 Cloudy Moderate Mid-Ebb Middle 11.4 8.06 9.29 8.30 33.12 25.06 3.49 2.5	0.27	
C1 20230515 Cloudy Moderate Mid-Ebb Bottom 21.8 8.05 9.17 8.23 33.02 25.07 4.11 2.5 C1 20230515 Cloudy Moderate Mid-Ebb Bottom 21.8 8.05 9.17 8.26 32.95 25.00 3.99 2.5	0.26	
C2 20230515 Cloudy Moderate Mid-Ebb Surface 1 9:15 9.22 8.15 32.25 25.03 3.48 2.5	0.27	SE /
C2 20230515 Cloudy Moderate Mid-Ebb Surface 1 9:15 9.14 8.20 32.22 25.09 3.31 2.5 C2 20230515 Cloudy Moderate Mid-Ebb Middle 12.2 9:14 9.23 8.19 32.24 25.06 3.29 2.5	0.29	
CZ 20230515 [Cloudy Moderate Mile Ebb Middle 12.2 93.4 93.2 52.2 25.01 3.40 3	0.28	

				1												
Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	Н	Sal (ppt)	Temp (?)	Turbidty (NTU)	SS	Current Velocity (m/s)	Current Direction	Remark
C2	20230515	Cloudy	Moderate	Mid-Ebb	Bottom	23.4	9:13	9.20	8.19	32.39	25.02	3.20	2.5	0.277	SE	/
C2 M1	20230515	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Surface	23.4	9:13 8:40	9.12 8.40	8.23	32.31 32.17	25.11 24.89	3.44 3.37	2.5	0.287 0.300		/
M1	20230515	Cloudy	Moderate	Mid-Ebb	Surface	1	8:40	8.34	8.31	32.14	25.02	3.28	2.5	0.287	E	/
M1	20230515	Cloudy	Moderate	Mid-Ebb	Middle	3.5	8:39	8.36	8.27	32.27	24.98	3.50	3	0.284	SE	/
M1 M1	20230515 20230515	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	3.5	8:39 8:38	8.62 8.39	8.34	32.15 32.28	25.00 24.96	3.56 3.62	2.5	0.274 0.271	E	/
M1	20230515	Cloudy	Moderate	Mid-Ebb	Bottom	6	8:38	8.34	8.33	32.20	25.00	3.51	2.5	0.298		/
M2	20230515	Cloudy	Moderate	Mid-Ebb	Surface	1	8:23	8.33	8.18	33.01	24.92	3.14	3	0.296	SE	/
M2 M2	20230515 20230515	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Middle	6.1	8:23 8:22	8.61 8.35	8.21	33.18 33.11	24.90 24.91	2.76 2.87	2.5	0.270 0.269	E	/
M2	20230515	Cloudy	Moderate	Mid-Ebb	Middle	6.1	8:22	8.61	8.22	33.11	24.91	2.91	3	0.263	SE	/
M2	20230515	Cloudy	Moderate	Mid-Ebb	Bottom	11.2	8:21	8.36	8.17	33.13	24.84	3.02	2.5	0.279	SE	/
M2	20230515	Cloudy	Moderate	Mid-Ebb	Bottom	11.2	8:21	8.37	8.19	32.99	24.93	3.10	2.5	0.275	SE	/
M3 M3	20230515	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	8:57 8:57	8.56 8.45	8.19	33.21 33.21	24.98 25.06	2.35 2.68	2.5	0.278 0.298	E F	/
M3	20230515	Cloudy	Moderate	Mid-Ebb	Middle	3.7	8:56	8.43	8.17	33.15	25.06	2.46	2.5	0.285	SE	/
M3	20230515	Cloudy	Moderate	Mid-Ebb	Middle	3.7	8:56	8.52	8.19	33.12	25.02	2.31	3	0.267	SE	/
M3	20230515	Cloudy	Moderate	Mid-Ebb	Bottom	6.4	8:55	8.55	8.16	33.33	24.93	2.28	3	0.294	SE	/
M3 M4	20230515 20230515	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Surface	6.4	8:55 9:47	8.46 9.26	8.23	33.29 32.91	25.07 25.15	2.46 2.41	2.5	0.297 0.263	F	/
M4	20230515	Cloudy	Moderate	Mid-Ebb	Surface	1	9:47	9.34	8.38	33.02	25.10	2.41	2.5	0.298	SE	/
M4	20230515	Cloudy	Moderate	Mid-Ebb	Bottom	3.9	9:46	9.27	8.31	32.99	25.15	2.23	3	0.271		/
M4 C1	20230515 20230517	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Surface	3.9	9:46 9:04	9.36 9.41	8.31	33.06 33.74	25.08 25.42	2.32 3.20	3 4	0.280 0.298	SE SF	/
C1	20230517	Cloudy	Moderate	Mid-Ebb	Surface	1	9:04	9.43	8.32	33.72	25.42	3.12	2.5	0.300		/
C1	20230517	Cloudy	Moderate	Mid-Ebb	Middle	10.55	9:03	9.49	8.34	33.54	25.51	3.32	2.5	0.275	E	/
C1	20230517	Cloudy	Moderate	Mid-Ebb	Middle	10.55	9:03	9.54	8.34	33.42	25.50	3.49	2.5	0.297	SE	/
C1	20230517	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Bottom	20.1	9:02	9.34 9.37	8.32	33.66 33.72	25.44 25.53	3.64 3.35	2.5	0.269 0.278	E F	/
C2	20230517	Cloudy	Moderate	Mid-Ebb	Surface	20.1	10:14	9.37 8.74	8.22	34.11	25.46	2.75	2.3	0.278	SE	/
C2	20230517	Cloudy	Moderate	Mid-Ebb	Surface	1	10:14	8.82	8.22	33.99	25.43	2.91	2.5	0.280	SE	/
C2	20230517	Cloudy	Moderate	Mid-Ebb	Middle Middle	12.05	10:13	8.80	8.22	34.18	25.44	2.99	4	0.270	SE	/
C2 C2	20230517 20230517	Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	12.05 23.1	10:13 10:12	8.69 8.68	8.15 8.22	33.96 34.19	25.46 25.44	2.81 3.07	2.5	0.271 0.271	SE E	/
C2	20230517	Cloudy	Moderate	Mid-Ebb	Bottom	23.1	10:12	8.64	8.15	33.98	25.46	2.95	3	0.271	E	/
M1	20230517	Cloudy	Moderate	Mid-Ebb	Surface	1	9:38	8.55	8.18	33.57	25.34	2.12	2.5	0.267	SE	/
M1	20230517	Cloudy	Moderate	Mid-Ebb	Surface	1	9:38	8.53	8.19	33.50	25.34	2.27	2.5	0.278	E	/
M1 M1	20230517 20230517	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Middle	3.5 3.5	9:37 9:37	8.64 8.72	8.21	33.68 33.53	25.46 25.41	2.49 2.11	2.5	0.296 0.298	SE	/
M1	20230517	Cloudy	Moderate	Mid-Ebb	Bottom	6	9:36	8.69	8.17	33.79	25.39	2.45	2.5	0.282	E	/
M1	20230517	Cloudy	Moderate	Mid-Ebb	Bottom	6	9:36	8.62	8.21	33.71	25.42	2.38	3	0.280	E	/
M2	20230517	Cloudy	Moderate	Mid-Ebb	Surface	1	9:22	9.44	8.37	33.27	25.53	2.81	3	0.301	E	/
M2 M2	20230517	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Middle	5.85	9:22 9:21	9.37 9.45	8.38	33.38 33.38	25.61 25.50	2.81 2.78	2.5	0.298 0.270		/
M2	20230517	Cloudy	Moderate	Mid-Ebb	Middle	5.85	9:21	9.43	8.43	33.47	25.60	2.58	2.5	0.271	SE	/
M2	20230517	Cloudy	Moderate	Mid-Ebb	Bottom	10.7	9:20	9.47	8.39	33.45	25.60	2.91	3	0.276	SE	/
M2	20230517	Cloudy	Moderate	Mid-Ebb	Bottom	10.7	9:20	9.37	8.42	33.43	25.51	2.69	2.5	0.283	SE	/
M3 M3	20230517	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	9:57 9:57	9.30 9.37	8.27	33.79 33.97	25.42 25.44	2.33 2.51	2.5	0.272 0.279	E F	/
M3	20230517	Cloudy	Moderate	Mid-Ebb	Middle	3.45	9:56	9.51	8.25	33.84	25.46	2.24	2.5	0.272	SE	/
M3	20230517	Cloudy	Moderate	Mid-Ebb	Middle	3.45	9:56	9.33	8.31	33.70	25.42	2.41	2.5	0.276	E	/
M3	20230517	Cloudy	Moderate	Mid-Ebb	Bottom	5.9	9:55	9.43	8.29	33.81	25.43	2.28	2.5	0.286	SE	/
M3 M4	20230517 20230517	Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Surface	5.9	9:55 10:45	9.42 8.53	8.31	33.94 33.55	25.43 25.23	2.19 2.48	2.5	0.275 0.277	SE F	/
M4	20230517	Cloudy	Moderate	Mid-Ebb	Surface	1	10:45	8.57	8.35	33.67	25.36	2.43	6	0.277	SE	/
M4	20230517	Cloudy	Moderate	Mid-Ebb	Bottom	4.2	10:44	8.62	8.31	33.64	25.25	2.26	2.5	0.266		/
M4	20230517	Cloudy	Moderate	Mid-Ebb	Bottom	4.2	10:44	8.74	8.36	33.86	25.23	2.40	2.5	0.267	SE	/
C1 C1	20230519	Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	10:21 10:21	9.34 9.30	8.26	33.38 33.63	25.13 25.07	4.36 4.59	2.5	0.265 0.264	SF.	/
C1		Cloudy	Moderate	Mid-Ebb	Middle	10.5	10:20	9.36	8.25	33.47	25.07	4.93	2.5	0.264		/
C1		Cloudy	Moderate	Mid-Ebb	Middle	10.5	10:20	9.44	8.25	33.69	25.20	4.88	2.5	0.285	SE	/
C1 C1	20230519	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Bottom	20 20	10:19 10:19	9.29 9.44	8.29	33.66 33.68	25.04 25.07	5.03 4.78	2.5	0.285 0.289	SE	/
C2	20230519	Cloudy	Moderate	Mid-Ebb	Surface	1	11:36	8.30	8.19	32.84	25.15	3.87	2.5	0.289	SE	/
C2	20230519	Cloudy	Moderate	Mid-Ebb	Surface	1	11:36	8.47	8.19	32.86	25.25	3.94	2.5	0.296	SE	/
C2		Cloudy	Moderate	Mid-Ebb	Middle	11.4	11:35	8.29	8.18	32.81	25.15	4.16	2.5	0.301	E	/
C2 C2	20230519	_	Moderate Moderate		Middle Bottom	11.4 21.8	11:35 11:34	8.41 8.28	8.18	32.81 32.92	25.27 25.34	4.25 4.49	2.5	0.270 0.283		/
C2		Cloudy	Moderate	Mid-Ebb	Bottom	21.8	11:34	8.50	8.22	33.03	25.13	4.52	2.5	0.282	SE	/
M1	20230519	Cloudy	Moderate	Mid-Ebb	Surface	1	10:55	9.25	8.27	33.52	25.12	3.33	2.5	0.281	E	/
M1		Cloudy	Moderate	Mid-Ebb	Surface	1	10:55	9.27	8.33	33.41	25.14	3.19	2.5	0.276	E	/
M1 M1	20230519 20230519	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Middle	3.3	10:54 10:54	9.27 9.31	8.29	33.66 33.52	25.14 24.91	3.48 3.17	2.5	0.267 0.279		/
M1	20230519		Moderate	Mid-Ebb	Bottom	5.6	10:53	9.25	8.28	33.46	24.91	3.15	2.5	0.264	E	/
M1		Cloudy	Moderate	Mid-Ebb	Bottom	5.6	10:53	9.44	8.29	33.64	25.14	3.21	2.5	0.279		/
M2 M2		Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface	1	10:38 10:38	8.68 8.71	8.18 8.18	32.25 32.38	25.24 25.00	4.39 4.14	2.5	0.278 0.294		/
M2 M2		Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Middle	6.3	10:38	8.71	8.18	32.38 32.45	25.00 25.17	4.14	2.5	0.294		/
M2	20230519	Cloudy	Moderate	Mid-Ebb	Middle	6.3	10:37	8.67	8.17	32.43	25.00	3.99	2.5	0.264	SE	/
M2	20230519	Cloudy	Moderate	Mid-Ebb	Bottom	11.6	10:36	8.54	8.16	32.42	25.03	4.30	2.5	0.271		/
M2 M3	20230519	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Surface	11.6	10:36 11:12	8.53 8.80	8.17	32.53 32.50	25.07 25.17	3.96 3.54	2.5	0.273 0.284	SE SE	/
M3		Cloudy	Moderate	Mid-Ebb	Surface	1	11:12	8.83	8.21	32.50	25.17	3.54	2.5	0.284	E	/
M3	20230519	Cloudy	Moderate	Mid-Ebb	Middle	3.95	11:11	8.70	8.21	32.62	25.16	3.81	4	0.271	SE	/
M3	20230519		Moderate		Middle	3.95	11:11	8.93	8.26	32.46	25.26	3.54	2.5	0.272	E	/
M3 M3	20230519 20230519		Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Bottom	6.9	11:10 11:10	8.89 8.81	8.22	32.67 32.79	25.14 25.17	3.62 3.54	2.5	0.292 0.286		/
M4		Cloudy	Moderate	Mid-Ebb	Surface	1	12:10	9.42	8.14	32.19	25.17	3.42	2.5	0.286		/
M4	20230519	Cloudy	Moderate	Mid-Ebb	Surface	1	12:10	9.45	8.14	32.39	25.22	3.38	2.5	0.269	E	/
M4	20230519	Cloudy	Moderate	Mid-Ebb	Bottom	4	12:09	9.37	8.16	32.25	25.13	3.59	2.5	0.273		/
M4 C1		Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Surface	4	12:09 12:16	9.52 8.84	8.18	32.38 33.52	25.27 25.98	3.45 3.79	2.5	0.286 0.269	St.	/
C1		Cloudy	Moderate	Mid-Ebb	Surface	1	12:16	8.93	8.32	33.54	26.05	3.65	2.5	0.293	SE	/
C1	20230522	Cloudy	Moderate	Mid-Ebb	Middle	10.55	12:15	8.96	8.29	33.64	26.08	3.87	2.5	0.267	E	/
C1		Cloudy	Moderate	Mid-Ebb	Middle	10.55	12:15	8.85	8.32	33.62	26.07	3.82	2.5	0.263	E	/
C1 C1	20230522 20230522	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Bottom	20.1 20.1	12:14 12:14	8.83 8.91	8.26	33.69 33.73	26.00 26.05	3.65 3.83	2.5 2.5	0.266 0.298	St.	/
C2	20230522	Cloudy	Moderate	Mid-Ebb	Surface	20.1	13:08	8.98	8.18	32.47	26.03	3.46	2.5	0.298	E	/
C2	20230522	Cloudy	Moderate	Mid-Ebb	Surface	1	13:08	9.05	8.16	32.53	25.96	3.49	2.5	0.299	E	/
C2	20230522	Cloudy	Moderate	Mid-Ebb	Middle	10.7	13:07	9.02	8.18	32.62	25.93	3.44	2.5	0.289	E	/
C2 C2		Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	10.7 20.4	13:07 13:06	9.00 8.97	8.21	32.74 32.62	26.00 26.03	3.25 3.29	2.5	0.263 0.277		/
C2	20230522	Cloudy	Moderate	Mid-Ebb	Bottom	20.4	13:06	9.04	8.21	32.66	26.00	3.19	2.5	0.277		/
M1	20230522	Cloudy	Moderate	Mid-Ebb	Surface	1	12:35	9.21	8.16	33.90	25.82	2.55	3	0.273	E	/
M1		Cloudy	Moderate	Mid-Ebb	Surface	1	12:35	9.23	8.17	33.90	25.76	2.58	2.5	0.290		/
M1	20230522	Cloudy	Moderate	Mid-Ebb	ıvılaale	3.7	12:34	9.19	8.17	33.70	25.80	2.37	2.5	0.297	DE.	/

			ı	1			1		1					ı		
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
M1 M1	20230522 20230522	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	3.7 6.4	12:34 12:33	9.2 9.3		33.74 33.87	25.76 25.85	2.62 2.63	2.5 2.5	0.297 0.281	SE F	/
M1	20230522	Cloudy	Moderate	Mid-Ebb	Bottom	6.4	12:33	9.2	9 8.20	33.75	25.77	2.41	3	0.263	E	/
M2 M2	20230522 20230522	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	12:32 12:32	8.9 8.8		33.56 33.43	25.76 25.79	2.64 2.81	2.5	0.293 0.287	SE F	/
M2	20230522	Cloudy	Moderate	Mid-Ebb	Middle	6.55	12:31	8.9	3 8.21	33.40	25.70	2.83	2.5	0.268		/
M2 M2	20230522	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	6.55 12.1	12:31 12:30	8.9 8.9		33.52 33.53	25.78 25.80	2.75 2.88	2.5 2.5	0.268 0.282	SE SE	/
M2	20230522	Cloudy	Moderate	Mid-Ebb	Bottom	12.1	12:30	8.9	2 8.22	33.56	25.72	2.59	2.5	0.299	SE	/
M3 M3	20230522 20230522	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	12:47 12:47	8.9 8.8		33.39 33.43	25.98 25.92	2.54 2.71	2.5 2.5	0.266 0.275	SE SE	/
M3	20230522	Cloudy	Moderate	Mid-Ebb	Middle	3.75	12:46	8.9		33.47	25.88	2.80	2.5	0.275	SE	/
M3 M3	20230522 20230522	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	3.75 6.5	12:46 12:45	8.9 8.8		33.62 33.36	25.94 25.90	2.60 2.65	2.5	0.294 0.296	SE SE	/
M3	20230522	Cloudy	Moderate	Mid-Ebb	Bottom	6.5	12:45	8.8		33.36	25.97	2.71	2.5	0.301	E	/
M4 M4	20230522 20230522	Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	13:44 13:44	8.9 9.0		33.51 33.37	25.88 25.82	2.98 3.36	2.5 4	0.283 0.266	SE	/
M4	20230522	Cloudy	Moderate	Mid-Ebb	Bottom	4.2	13:43	9.0		33.52	25.82	2.98	2.5	0.278		/
M4 C1	20230522 20230524	Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Surface	4.2	13:43 13:32	8.9 8.		33.36 32.71	25.87 25.92	3.32 4.82	2.5 2.5	0.27 0.278	E	/
C1 C1	20230524 20230524	Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Middle	1 11.65	13:32 13:31	8.4 8.3		32.92 32.76	25.98 26.01	4.62 4.33	2.5 2.5	0.295 0.274		/
C1		Cloudy	Moderate	Mid-Ebb	Middle	11.65	13:31	8.3		32.86	26.01	4.51	2.5	0.274		/
C1	20230524 20230524	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Bottom	22.3 22.3	13:30 13:30	8.2 8.2		32.93 32.71	26.00 25.99	4.65 4.68	2.5 2.5	0.278	SE	/
C2	20230524	Cloudy	Moderate	Mid-Ebb	Surface	1	14:46	8.2		33.24	25.79	3.76	2.5	0.281	SE	/
C2 C2	20230524 20230524	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Middle	1 12.5	14:46 14:45	8.2 8.2		33.10 32.97	25.72 25.84	3.94 3.83	2.5 2.5	0.271 0.289	SE F	/
C2	20230524	Cloudy	Moderate	Mid-Ebb	Middle	12.5	14:45	8.1	2 8.21	33.14	25.74	3.82	3	0.287	SE SE	/
C2 C2	20230524 20230524	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Bottom	24 24	14:44 14:44	8.1 8.3		33.20 33.03	25.75 25.81	4.14 3.79	2.5 2.5	0.287 0.291	E SE	/
M1	20230524	Cloudy	Moderate	Mid-Ebb	Surface	1	14:07	8.3	7 8.27	32.02	25.79	3.38	2.5	0.28	SE	/
M1 M1		Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Middle	3.25	14:07 14:06	8. 8.3		31.93 31.77	25.90 25.81	3.5 3.2	2.5 2.5	0.28 0.282	SE SE	/
M1	20230524	Cloudy	Moderate	Mid-Ebb	Middle	3.25	14:06	8.2	2 8.2	32.03	25.88	3.38	2.5	0.293	E	/
M1 M1	20230524	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Bottom	5.5 5.5	14:05 14:05	8.3 8.4		32.04 31.91	25.89 25.85	3.29 3.09	2.5 2.5	0.301 0.291	SE SE	/
M2	20230524	Cloudy	Moderate	Mid-Ebb	Surface	1	13:50	8.	5 8.36	32.55	26.01	3.22	2.5	0.27	E	/
M2 M2	20230524 20230524	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Middle	6.3	13:50 13:49	8.8		32.55 32.46	25.92 25.95	3.14 2.75	2.5	0.284 0.266		/
M2	20230524	Cloudy	Moderate	Mid-Ebb	Middle	6.3	13:49	8.7	5 8.33	32.33	26.01	3.07	2.5	0.279	SE	/
M2 M2	20230524 20230524	Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Bottom	11.6 11.6	13:48 13:48	8.7 8.6		32.42 32.60	25.92 25.97	2.75 3.13	2.5 2.5	0.263 0.278	SE SE	/
M3	20230524	Cloudy	Moderate	Mid-Ebb	Surface	1	14:25	8.9		33.16	25.94	3.7	2.5	0.266	E	/
M3 M3	20230524 20230524	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Middle	4	14:25 14:24	8.9 8.8		33.14 32.94	26.00 26.05	3.5 3.75	2.5	0.292 0.276	E	/
M3	20230524	Cloudy	Moderate	Mid-Ebb	Middle	4	14:24	8.7		33.20	26.00	3.53	2.5	0.292	SE	/
M3 M3	20230524 20230524	Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Bottom	7	14:23 14:23	8.9	3 8.23 9 8.25	33.26 32.99	26.00 25.98	3.68 3.59	2.5 2.5	0.292 0.277	E	/
M4 M4	20230524	Cloudy	Moderate	Mid-Ebb	Surface	1	15:15 15:15	8.2		32.47 32.48	25.83 25.87	2.46	2.5 2.5	0.281 0.298	SE	/
M4	20230524 20230524	Cloudy Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Bottom	3.7	15:15	8.3 8.3		32.48	25.89	2.19 2.46	2.5	0.298	E	/
M4 C1	20230524 20230526	Cloudy Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Surface	3.7	15:14 14:46	8.1 8.9		32.57 32.79	25.79 27.95	2.48	2.5 2.5	0.289 0.264	E SE	/
C1	20230526	Sunny	Moderate	Mid-Ebb	Surface	1	14:46	8.8		32.67	28.10	3.85	2.5	0.295	E	/
C1		Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Middle	10.2 10.2	14:45 14:45	8.9 8.9		32.82 32.80	28.03 28.12	3.84 3.89	2.5 2.5	0.275 0.29		/
C1	20230526	Sunny	Moderate	Mid-Ebb	Bottom	19.4	14:44	8.	8 8.25	32.80	28.02	3.85	2.5	0.295	E	/
C1 C2	20230526 20230526	Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Surface	19.4	14:44 16:02	8.9 8.3		32.85 32.43	27.97 27.84	4.06 3.57	2.5 2.5	0.286 0.298	SE SE	/
C2	20230526	Sunny	Moderate	Mid-Ebb	Surface	1	16:02	8.3	6 8.22	32.45	27.79	3.49	2.5	0.301	E	/
C2 C2	20230526 20230526	Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Middle	12.65 12.65	16:01 16:01	8.3 8.3		32.37 32.48	27.78 27.90	3.87 3.68	2.5 2.5	0.267 0.277	SE E	/
C2	20230526	Sunny	Moderate	Mid-Ebb	Bottom	24.3	16:00	8.3		32.34	27.80	3.61	2.5	0.294	SE	/
M1	20230526 20230526	Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Surface	24.3	16:00 15:26	8.3 8.3		32.49 32.54	27.86 27.78	3.55 3.12	2.5 2.5	0.297 0.275	SE SE	/
M1		Sunny	Moderate	Mid-Ebb	Surface	1	15:26	8.2		32.58	27.84	3.54	2.5	0.282		/
M1 M1	20230526 20230526		Moderate Moderate		Middle Middle	3.3	15:25 15:25	8.3 8.2		32.70 32.66	27.80 27.83	3.19 3.55	2.5 2.5	0.294 0.291		/
M1 M1	20230526	Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Bottom	5.6	15:24 15:24	8. 8.2	2 8.23	32.65 32.70	27.90 28.01	3.15 3.46	2.5 2.5	0.265 0.277	SE	/
M1 M2		Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface	5.6 1	15:24 15:10	9.0		32.70 32.18	28.01 27.76	3.46 2.39	2.5	0.277		/
M2 M2	20230526	Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Middle	1	15:10 15:09		9 8.19	32.14 32.39	27.86 27.70	2.5 2.35	2.5 2.5		E SE	/
M2	20230526	Sunny Sunny	Moderate	Mid-Ebb	Middle Middle	6	15:09	9.0 8.9	8 8.23	32.37	27.90	2.67	2.5	0.292		/
M2 M2	20230526 20230526	Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Bottom	11 11	15:08 15:08	9.0	0.23	32.35 32.28	27.69 27.75	2.58 2.67	2.5 2.5	0.281 0.3	E SF	/
M3	20230526	Sunny	Moderate	Mid-Ebb	Surface	11	15:43	9.2	2 8.27	32.18	27.71	3.39	2.5	0.288	SE	/
M3 M3	20230526 20230526	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Middle	3.65	15:43 15:42	9.1 9.1		32.07 32.05	27.64 27.57	3.41 3.12	2.5 2.5	0.29 0.298	SE SF	/
M3	20230526	Sunny	Moderate	Mid-Ebb	Middle	3.65	15:42	9.1	8 8.28	32.03	27.57	3.41	2.5	0.298	E	/
M3 M3		Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Bottom	6.3	15:41 15:41	9.0 9.1		32.00 32.16	27.79 27.70	3.3 3.36	2.5 2.5	0.264 0.298		/
M4	20230526	Sunny	Moderate	Mid-Ebb	Surface	1	16:30	8.2	8 8.21	31.87	28.06	2.43	2.5	0.296	SE	/
M4 M4	20230526 20230526	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Bottom	3.8	16:30 16:29	8.2 8.2		31.83 31.73	27.93 27.97	2.46	2.5	0.298 0.263		/
M4	20230526	Sunny	Moderate	Mid-Ebb	Bottom	3.8	16:29	8.2	1 8.25	31.89	27.93	2.65	3	0.283	SE	/
C1 C1	20230529 20230529	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	8:02 8:02	8.6 8.6		32.04 32.10	28.01 27.85	3.4 3.28	2.5 2.5	0.282 0.3		/
C1	20230529	Sunny	Moderate	Mid-Ebb	Middle	9.8	8:01	8.6	2 8.21	32.07	27.91	3.49	2.5	0.274	SE	/
C1 C1	20230529 20230529	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	9.8 18.6	8:01 8:00	8.6 8.7		32.20 32.08	27.86 28.06	3.52 3.68	2.5	0.264 0.296		/
C1	20230529	Sunny	Moderate	Mid-Ebb	Bottom	18.6	8:00	8.6	6 8.21	32.05	27.84	3.8	2.5	0.287	SE	/
C2 C2	20230529 20230529	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	9:10 9:10	8.6 8.6		32.90 32.79	28.03 27.87	2.82 2.94	2.5	0.267 0.274	SE SE	/
C2	20230529	Sunny	Moderate	Mid-Ebb	Middle	12.5	9:09	8.6	2 8.18	32.91	27.89	2.83	2.5	0.272	E	/
C2 C2	20230529 20230529	Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	12.5 24	9:09 9:08	8.5 8.6		32.97 33.00	27.88 27.93	3.05 2.97	2.5 2.5	0.278 0.299	SE E	/
C2	20230529	Sunny	Moderate	Mid-Ebb	Bottom	24	9:08	8.5	7 8.23	32.98	27.86	3.44	2.5	0.287	E	/
M1 M1	20230529 20230529	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	8:37 8:37	8.7 8.6		32.38 32.56	28.05 28.00	2.7 2.55	2.5 2.5	0.301 0.296	E	/
M1	20230529	Sunny	Moderate	Mid-Ebb	Middle	3.7	8:36	8.6	8 8.24	32.54	27.97	2.62	2.5	0.28		/
M1 M1	20230529 20230529	Sunny Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	3.7 6.4	8:36 8:35	8. 8.6		32.42 32.60	27.88 28.05	2.74 2.53	2.5 2.5	0.29 0.301		/
M1	20230529	Sunny	Moderate	Mid-Ebb	Bottom	6.4	8:35	8.5	8 8.25	32.50	27.84	2.82	2.5	0.264	E	/
M2 M2	20230529 20230529		Moderate Moderate		Surface Surface	1	8:19 8:19	8.9 8.9		32.43 32.51	27.79 27.60	2.67 2.57	2.5 2.5	0.279 0.286		/
												-				

																Т
Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	оН	Sal (ppt)	Temp (?)	Turbidty (NTU)	SS	Current Velocity (m/s)	Current Direction	Remark
M2	20230529		Moderate	Mid-Ebb	Middle	6.3	8:18	8.91	8.23	32.52	27.84	2.34	2.5	0.269		/
M2	20230529		Moderate	Mid-Ebb	Middle	6.3	8:18	9.05	8.18	32.40	27.63	2.62	2.5	0.29		/
M2	20230529		Moderate	Mid-Ebb	Bottom	11.6	8:17	9.03	8.2	32.46	27.75	2.3	2.5		SE	/
M2	20230529	Sunny	Moderate	Mid-Ebb	Bottom	11.6	8:17	9.08	8.26	32.46	27.67	2.3	2.5	0.288	E	/
M3	20230529	Sunny	Moderate	Mid-Ebb	Surface	1	8:54	8.83	8.25	33.31	27.72	2.64	2.5	0.287	SE	/
M3	20230529	Sunny	Moderate	Mid-Ebb	Surface	1	8:54	8.8	8.26	33.22	27.58	2.94	2.5	0.277	SE	/
M3		Sunny	Moderate	Mid-Ebb	Middle	3.45	8:53	8.75	8.27	33.35	27.65	2.64	2.5		SE	/
M3	20230529	Sunny	Moderate	Mid-Ebb	Middle	3.45	8:53	8.82	8.29	33.32	27.63	2.82	2.5	0.273	SE	/
M3	20230529	Sunny	Moderate	Mid-Ebb	Bottom	5.9	8:52	8.66	8.28	33.37	27.61	2.64	2.5	0.286	SE	/
M3	20230529	Sunny	Moderate	Mid-Ebb	Bottom	5.9	8:52	8.77	8.26	33,30	27.58	2.51	2.5	0.281	E	/
M4		Sunny	Moderate	Mid-Ebb	Surface	1	9:44	8.76	8.3	32.53	27.96	2.1	2.5	0.268	SE	/
M4	20230529	Sunny	Moderate	Mid-Ebb	Surface	1	9:44	8.75	8.28	32.32	27.81	2.36	2.5	0.285	E	/
M4	20230529	Sunny	Moderate	Mid-Ebb	Bottom	3.5	9:43	8.84	8.3	32.38	27.95	2.52	2.5	0.29	SE	/
M4	20230529	_	Moderate	Mid-Ebb	Bottom	3.5	9:43	8.72	8.29	32.35	27.74	2.26	2.5		SE	/
C1		Sunny	Moderate	Mid-Ebb	Surface	1	8:10	9.02	8.18	33.05	28.57	3.02	2.5		SE	/
C1		Sunny	Moderate	Mid-Ebb	Surface	1	8:10	9.04	8.19	33.13	28.64	3.47	2.5	0.294	F	/
C1		Sunny	Moderate	Mid-Ebb	Middle	10.35	8:09	9.03	8.19	33.09	28.50	3.06	2.5		F	/
C1		Sunny	Moderate	Mid-Ebb	Middle	10.35	8:09	8.87	8.21	33.20	28.69	3.20	2.5	0.272	SE	/
C1		Sunny	Moderate	Mid-Ebb	Bottom	19.7	8:08	8.91	8.21	33.12	28.55	3.37	2.5		SE	/
C1		Sunny	Moderate	Mid-Ebb	Bottom	19.7	8:08	8.92	8.23	33.20	28.48	3.25	2.5	0.290		/
C2		Sunny	Moderate	Mid-Ebb	Surface	1	9:20	8.41	8.16	33.34	28.74	3.01	2.5	0.263		/
C2		Sunny	Moderate	Mid-Ebb	Surface	1	9:20	8.47	8.21	33.32	28.66	2,99	2.5	0.271	F	/
C2		Sunny	Moderate	Mid-Ebb	Middle	10.8	9:19	8.45	8.15	33.35	28.67	2.95	2.5	0.273	SF	/
C2		Sunny	Moderate	Mid-Ebb	Middle	10.8	9:19	8.41	8.16	33.40	28.69	2.65	2.5	0.300		/
C2		Sunny	Moderate	Mid-Ebb	Bottom	20.6	9:18	8.44	8.16	33.39	28.81	2.97	4	0.294		/
C2		Sunny	Moderate	Mid-Ebb	Bottom	20.6	9:18	8.40	8.20	33.49	28.74	3.04	2.5	0.273		/
M1		Sunny	Moderate	Mid-Ebb	Surface	1	8:42	8.45	8.33	32.55	28.81	2.11	2.5		SE	/
M1		Sunny	Moderate	Mid-Ebb	Surface	1	8:42	8.22	8.35	32.70	28.60	2.31	2.5	0.263	F	/
M1		Sunny	Moderate	Mid-Ebb	Middle	3.3	8:41	8.41	8.29	32.64	28.57	2.48	2.5	0.283	F	/
M1		Sunny	Moderate	Mid-Ebb	Middle	3.3	8:41	8.24	8.33	32.61	28.81	2.53	2.5	0.295	F	/
M1	20230531	Sunny	Moderate	Mid-Ebb	Bottom	5.6	8:40	8.19	8.32	32.74	28.79	2.10	2.5	0.285	F	/
M1		Sunny	Moderate	Mid-Ebb	Bottom	5.6	8:40	8.45	8.33	32.77	28.76	2.19	2.5	0.284	SF	/
M2	20230531	Sunny	Moderate	Mid-Ebb	Surface	1	8:26	8.39	8.17	33.84	28.88	2.37	2.5		SE	/
M2		Sunny	Moderate	Mid-Ebb	Surface	1	8:26	8.33	8.18	33.74	28.84	2.24	2.5	0.300		/
M2		Sunny	Moderate	Mid-Ebb	Middle	6.35	8:25	8.23	8.22	33.65	28.74	2.07	2.5	0.280		/
M2		Sunny	Moderate	Mid-Ebb	Middle	6.35	8:25	8.20	8.23	33.70	28.71	2.19	2.5	0.270		/
M2		Sunny	Moderate	Mid-Ebb	Bottom	11.7	8:24	8.29	8.22	33.72	28.85	1.98	2.5	0.294		7
M2		Sunny	Moderate	Mid-Ebb	Bottom	11.7	8:24	8.28	8.18	33.69	28.88	2.34	2.5	0.265		7
M3		Sunny	Moderate	Mid-Ebb	Surface	1	9:00	8.39	8.30	33.01	28.57	1.84	2.5		SE	1
M3		Sunny	Moderate	Mid-Ebb	Surface	1	9:00	8.53	8.35	32.92	28.59	1.96	2.5	0.290	~-	1
M3		Sunny	Moderate	Mid-Ebb	Middle	3.9	8:59	8.35	8.35	33.00	28.54	1.51	2.5	0.274	E	1
M3		Sunny	Moderate	Mid-Ebb	Middle	3.9	8:59	8.21	8.36	32.81	28.54	1.81	2.5	0.266	E	1
M3		Sunny	Moderate	Mid-Ebb	Bottom	6.8	8:58	8.25	8.28	32.98	28.50	1.87	2.5	0.288	SF	/
M3		Sunny	Moderate	Mid-Ebb	Bottom	6.8	8:58	8.30	8.31	33.02	28.57	1.78	2.5	0.276		/
M4		Sunny	Moderate	Mid-Ebb	Surface	1	9:51	8.31	8.21	33.24	28.86	2.00	2.5	0.270		/
M4		Sunny	Moderate	Mid-Ebb	Surface	1	9:51	8.46	8.24	33.46	28.83	1.85	2.5	0.274		/
M4		Sunny	Moderate	Mid-Ebb	Bottom	3.9	9:50	8.32	8.22	33.31	28.64	1.98	2.5		SE	/
M4		Sunny	Moderate		Bottom	3.9	9:50	8.36	8.23	33.31	28.79	1.77	2.5	0.279	~-	7
141-5	20230331	Juility	···ouciate	IIU-LUU	DOLLOIII	3.5	5.50	0.30	3.23	JJ.31	20.75	1.//	2.3	0.275		/

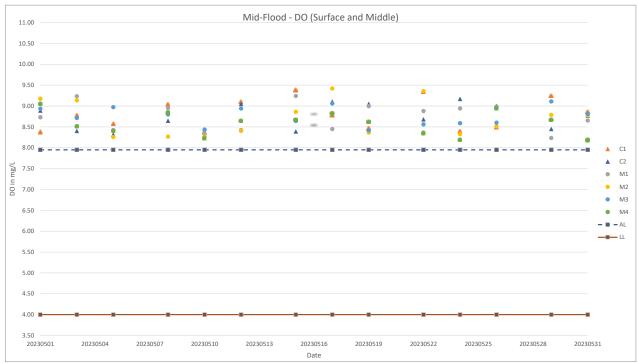
1985 Prof. Section Prof. 1985 Prof. 1															
1							Depth (m)								Remark
Section Company Comp							1						-		/
Second Second Control		20230501	Cloudy		Mid-Flood			14:37	8.44 8.26	32.27	24.71			0.291 E	/
Column															/
Column	C1	20230501	Cloudy	Moderate	Mid-Flood	Bottom	19.1	14:36	8.53 8.29	32.24	24.69	2.93	2.5	0.304 SE	/
Column C							-								/
Column	C2	20230501	Cloudy	Moderate	Mid-Flood	Middle		13:28	8.95 8.22	33.09	24.61	3.43	2.5	0.301 SE	/
20 200000 Color															/
10 1980 19															/
10 1970 19							_								/
200 200															/
201 2020000 Code Decorate Value Decorate Value Code Co															/
202															/
Second	M2	20230501	Cloudy	Moderate	Mid-Flood	Surface		14:16	9.18 8.22	32.39	24.68	2.7	2.5	0.286 SE	/
Second Column March Marc							6.25								/
Second Control Month															/
20															/
Second Second Montest Montes															/
Second Control Medical Medic							1								/
Mathematics															/
May 2020000 County Moderate with first production of the county of the c	M3	20230501	Cloudy	Moderate	Mid-Flood	Bottom	6.9	13:42	9.07 8.2	32.06	24.53	2.28	4	0.282 E	/
May 2010000 Condy. Moderate West Property of Control o															/
MAI DOZDING (Budy) Makines MAI Marke Market 1 1 100 500 500 5.0 1 100 100 100 100 100 100 100 100 100	M4	20230501	Cloudy		Mid-Flood		1	15:01	8.99 8.3	32.53	24.54	2.59	2.5	0.300 E	/
Col.															/
Columbi Colu															/
Col.	C1	20230503	Sunny					16:28	8.82 8.25	32.83	25.10	3.16	2.5	0.269 SE	/
C.															/
Col.		20230503	Sunny	Moderate	Mid-Flood	Bottom		16:26	8.86 8.22	33.07	25.09	3.26	2.5	0.305 SE	/
Color															/
George Decorpt Section Secti					Mid-Flood		1								/
CI 2003/003 Sorry Monteres Mor Pood Stemm 22 13:3 8.40 12.5 3.51 2.50 1.50 1.5 1.5 2.50 1.50 1.50 1.5 1.															/
M. 3030999 Sowy Mederate Mof-Book Springer M. 2010999 Sowy Medical Mof-Book Springer M. 2010999 Sowy Moderate Mof-Book M															/
M. 2000000 Sorry															/
Math															/
Math	M1	20230503	Sunny	Moderate	Mid-Flood	Middle		15:52	9.25 8.20	32.78	25.18	2.48	2.5	0.298 E	/
M. 2020000 Sumy Moderate Mediated Surface 1 15:00 9.17 8.27 8.27 8.27 8.27 8.27 8.27 8.27 8.2															/
10.00000000000000000000000000000000000															/
No.							_								/
NZ 2023903 Surry							_								/
NZ 2023903 Surry Moderate Mid-Flood Software 1 15:28 8.75 8.27 9.38 45 2.06 2.13 2.25 9.38 65 2.06 1.13 2.25 9.38 65 2.06 1.13 2.25 9.38 65 2.06 1.13 1.25 9.38 65 2.06 1.13 1.25 9.38 65 2.06 1.13 1.13 9.38 6.66 8.27 9.38 65 2.06 9.38 9.27 9.27 9.38 9.27 9.27 9.38 9.27 9.27 9.38 9.27 9.27 9.38 9.27 9.27 9.38 9.27 9.27 9.38 9.27 9.27 9.38 9.27 9.27 9.38 9.27 9.27 9.38 9.27 9.27 9.38 9.27 9.27 9.38 9.27 9.27 9.38 9.38 9.27 9.27 9.38 9.38 9.38 9.38 9.38 9.38 9.38 9.38															/
NS 0.2025003 Surrey Moderate Met Frood Surface 1 1 1538 8.57 8.22 33.84 24.91 2.29 3 0.298 [£ m.m.] Notice of the Committee Met Frood Surface 1 1 1538 8.56 8.22 33.80 24.91 2.29 3 0.298 [£ m.m.] NS 0.2025003 Surrey Moderate Met Frood Models 155 153.71 8.77 8.77 8.77 8.77 8.77 8.77 8.77 8															/
Mail	M3	20230503	Sunny		Mid-Flood		1	15:38	8.75 8.22	33.84	24.91	2.29	3	0.298 E	/
NS 2023903 Survey Moderate Miche Flood Bottom 6.5 1.537 M 8.76 8.24 8.34 2.49 1 2.34 2.5 0.291 SE MIN 2023903 Survey Moderate Miche Flood Bottom 6.5 1.536 8.76 8.22 33.36 2.485 2.67 2.5 0.265 SE MIN 2023903 Survey Moderate Miche Flood Bottom 6.1 1.536 8.76 8.20 32.77 2.5 1.0 2.60 SE MIN 2023903 Survey Moderate Miche Flood Bottom 6.1 1.536 8.76 8.20 32.77 2.5 1.0 2.60 SE MIN 2023903 Survey Moderate Miche Flood Surface 1 1.0 1.556 8.40 8.20 32.77 2.5 1.0 2.60 SE MIN 2023903 Survey Moderate Miche Flood Surface 1 1.0 1.550 8.40 8.20 32.71 2.5 1.0 3.0 1.5 1.0 2.72 SE MIN 2023903 Survey Michee Miche Miche Miche Min 2023903 Survey Michee Michee Miche Mich Miche Mic															/
M3 2023905] Sumy Moderate Mid-Flood Surface 1 1 1651 8.46 8.20 23.27 5.26 2.36 2.5 0.27 15 1 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1										33.61	24.91		2.5		/
MM 2023903 Sumy Moderate Mid-Flood Surface 1 1 1651 8.85 8.20 82.37 82.50 9.29 9.25 0.300 SE MM 2023903 Sumy Moderate Mid-Flood Surface 1 1 1655 8.86 8.22 82.32 82.50 9.29 9.25 0.300 SE MM 2023903 Sumy Moderate Mid-Flood Bottom 3.5 1650 8.48 8.20 82.32 82.50 12.00 12.50 0.272 SE MM 2023903 Sumy Moderate Mid-Flood Bottom 3.5 1650 8.48 8.20 82.32 82.50 12.00 8.20 8.20 8.20 8.20 8.20 8.20 8.20															/
MA 20230505 Sunny Moderate Mid-Flood Statem 3.5 16:50 8.48 8.20 32.48 12:50 3.0 3.0 1.5 0.272 SE MA 20230505 Sunny Mederate Mid-Flood Surface 1 16:44 8.59 8.21 32:50 23:38 12:53 0.286 SE C1 20230505 Sunny Mederate Mid-Flood Surface 1 16:44 8.59 8.21 32:52 32:85 12:33 12:51 0.286 SE C1 20230505 Sunny Mederate Mid-Flood Surface 1 16:44 8.59 8.21 32:85 12:33 15:25 0.311 SE C1 20230505 Sunny Mederate Mid-Flood Surface 1 16:44 8.59 8.22 32:85 12:33 15:25 0.311 SE C1 20230505 Sunny Mederate Mid-Flood Middle 10.1 16:43 8.54 8.22 32:82 23:82 12:33 22:25 0.270 SE C1 20230505 Sunny Mederate Mid-Flood Middle 10.1 16:43 8.54 8.22 32:82 23:82 12:33 22:27 12:5 0.270 SE C1 20230505 Sunny Mederate Mid-Flood Middle 10.1 16:43 8.54 8.22 32:82 12:33 22:31 12:35 1															/
Med 20230505 Sarry Mederate Mid-Flood Surface 1 1 644 8-59 8.19 8.21 32.61 52.12 3.36 3 0.290 SE CI 20230505 Sarry Mederate Mid-Flood Surface 1 1 644 8-59 8.19 32.77 25.35 3.15 2.5 0.286 SE CI 20230505 Sarry Mederate Mid-Flood Middle 10.1 1643 8-62 8.29 8.29 25.24 2.25 5.90 2.20 15 0.270 E CI 20230505 Sarry Mederate Mid-Flood Middle 10.1 1643 8-62 8.29 32.90 25.41 2.72 2.5 0.20 65 SE CI 20230505 Sarry Mederate Mid-Flood Middle 10.1 1643 8-62 8.29 32.90 25.41 2.72 2.5 0.20 65 SE CI 20230505 Sarry Mederate Mid-Flood Surface 1 1.50 Se CI 20230505 Sarry Mider															/
CL 20230505 Sumy Melerate Mel-Flood Surface 1 1 1644 8.59 8.29 3 2.85 2.534 2.93 2.5 0.286 SE CL 20230505 Sumy Melerate Mel-Flood Middle 10.1 1643 8.59 8.19 32.77 2.535 315 2.5 0.276 SE CL 20230505 Sumy Melerate Mel-Flood Middle 10.1 1643 8.64 8.29 2.3 3.89 2.97 2.5 0.776 SE CL 20230505 Sumy Melerate Mel-Flood Middle 10.1 1643 8.64 8.20 8.20 3.89 2.59 2.541 2.77 2.5 0.776 SE CL 20230505 Sumy Melerate Mel-Flood Middle 10.1 1643 8.64 8.20 8.20 3.89 2.59 2.541 2.77 2.5 0.776 SE CL 20230505 Sumy Melerate Mel-Flood Middle 10.1 1643 8.64 8.20 8.20 3.89 2.59 2.541 2.77 2.5 0.769 SE CL 20230505 Sumy Melerate Mel-Flood Middle 10.1 1643 8.64 8.20 8.20 3.89 2.50 2.50 2.50 2.50 SE CL 2023050 Sumy Melerate Mel-Flood Middle 10.1 1643 8.64 8.20 8.20 8.20 8.20 8.20 8.20 8.20 8.20															/
CL 2023905 Surny Melerate Mid-Flood Middle 10.1 1643 8.54 8.22 32.92 25.9 0.270 E CL 2023905 Surny Melerate Mid-Flood Middle 10.1 1643 8.62 8.37 25.9 5.41 2.72 25 0.269 E CL 2023905 Surny Melerate Mid-Flood Sottom 19.2 16462 8.64 8.24 8.32 9.1 15.35 2.60 2.5 1.020 [E CL 2023905 Surny Melerate Mid-Flood Sottom 19.2 16462 8.64 8.24 8.18 32.07 25.32 2.67 2.5 0.205 [E CL 2023905 Surny Melerate Mid-Flood Surface 1 1.932 2.64 8.25 8.18 32.07 25.32 2.67 2.5 0.205 [E CL 2023905 Surny Melerate Mid-Flood Surface 1 1.932 2.64 8.25 8.18 32.00 25.32 3.64 2.5 0.200 [E CL 2023905 Surny Melerate Mid-Flood Middle 11.6 1531 8.25 8.18 31.61 25.22 3.66 2.5 0.200 [E CL 2023905 Surny Melerate Mid-Flood Middle 11.6 1531 8.25 8.18 31.61 25.22 3.65 2.5 0.268 [E CL 2023905 Surny Melerate Mid-Flood Sottom 2.22 153.00 8.31 8.24 31.82 25.22 3.65 2.5 0.200 [E CL 2023905 Surny Melerate Mid-Flood Sottom 2.22 153.00 8.31 8.24 31.82 25.22 3.56 2.5 0.200 [E CL 2023905 Surny Miderate Mid-Flood Sottom 2.22 153.00 8.31 8.24 31.82 25.22 3.56 2.5 0.200 [E CL 2023905 Surny Miderate Mid-Flood Sottom 2.22 153.00 8.31 8.24 31.82 25.22 3.56 2.5 0.200 [E CL 2023905 Surny Miderate Mid-Flood Sottom 2.22 153.00 8.31 8.24 31.82 25.22 3.56 2.5 0.200 [E CL 2023905 Surny Miderate Mid-Flood Surface 1 1.66 8.55 8.20 3.200 [E CL 2023905 Surny Miderate Mid-Flood Surface 1 1.66 8.55 8.20 3.200 [E Surf	C1	20230505	Sunny		Mid-Flood		1	16:44	8.59 8.23	32.85	25.34	2.93			/
CL 2023905 Sumy Melerate Mid-Flood Middle 10.1 1643 8.02 8.23 32.99 25.41 2.77 2.5 0.299 SE CL 2023905 Sumy Melerate Mid-Flood Settom 19.2 1642 8.52 8.18 32.91 75.53 2.69 2.5 0.209 SE CL 2023905 Sumy Melerate Mid-Flood Settom 19.2 1642 8.52 8.18 32.97 75.52 3.44 2.5 0.209 SE CL 2023905 Sumy Melerate Mid-Flood Surface 11 1532 8.33 8.22 31.74 25.32 3.44 2.5 0.308 SE CL 2023905 Sumy Melerate Mid-Flood Surface 11 1532 8.33 8.22 31.74 25.32 3.61 25.5 0.209 SE CL 2023905 Sumy Melerate Mid-Flood Middle 11.6 1531 8.26 8.30 8.25 31.74 25.32 3.61 25 0.209 SE CL 2023905 Sumy Melerate Mid-Flood Middle 11.6 1531 8.26 8.30 31.75 25.31 3.59 2.5 0.206 SE CL 2023905 Sumy Melerate Mid-Flood Settom 22.2 153.00 8.33 8.27 31.76 25.32 3.50 2.5 0.208 SE CL 2023905 Sumy Melerate Mid-Flood Settom 22.2 153.00 8.33 8.17 31.78 25.23 3.50 2.5 0.208 SE CL 2023905 Sumy Melerate Mid-Flood Settom 22.2 153.00 8.33 8.17 31.78 25.23 3.50 2.5 0.208 SE CL 2023905 Sumy Melerate Mid-Flood Surface 11 16.05 8.35 8.39 8.27 31.78 25.23 3.50 2.5 0.207 SE CL 2023905 Sumy Melerate Mid-Flood Surface 11 16.05 8.35 8.39 32.24 25.37 2.57 2.5 0.303 SE CL 2023905 Sumy Melerate Mid-Flood Surface 11 16.05 8.35 8.29 32.24 25.37 2.57 2.57 2.5 0.303 SE CL 2023905 Sumy Melerate Mid-Flood Surface 11 16.05 8.35 8.29 32.24 25.37 2.57 2.57 2.5 0.303 SE CL 2023905 Sumy Melerate Mid-Flood Surface 11 16.05 8.35 8.29 32.24 25.37 2.57 2.57 2.5 0.303 SE CL 2023905 Sumy Melerate Mid-Flood Surface 11 16.05 8.35 8.29 32.24 25.37 2.57 2.57 2.5 0.303 SE CL 2023905 Sumy Melerate Mid-Flood Surface 11 16.05 8.35 8.29 32.24 25.37 2.57 2.57 2.5 0.303 SE CL 2023905 Sumy Melerate Mid-Flood Surface 11 16.05 8.30 8.30 8.29 32.24 25.37 2.57 2.57 2.50 3.00 SE CL 2023905 Sumy Melerate Mid-Flood Surface 11 16.05 8.30 8.30 8.29 32.24 25.37 2.57 2.57 2.50 3.00 SE CL 2023905 Sumy Melerate Mid-Flood Surface 11 16.05 8.30 8.30 8.29 32.25 2.35 2.25 2.25 2.25 2.25 2.25 2.2															/
C1 20230505 Sumy Merate Mid-Flood Strafee 1 19.2 1642	C1	20230505	Sunny	Mderate	Mid-Flood	Middle	10.1	16:43	8.62 8.23	32.59	25.41	2.72	2.5	0.269 SE	/
C2 2023905 Sunny Mérette Mid-Flood Surface 1 15-32 8.43 8.12 8.20 25.32 3.44 2.5 0.308 C															/
C2 20230555 Sumy Meferate Mid-Flood Middle 11.6 15.31 8.25 8.18 31.81 25.23 3.61 2.5 0.286 E		20230505	Sunny							32.00	25.32		2.5		/
C2 20230505 Sunny Merate Mid-Flood Middle 11.6 15.31 8.26 8.20 31.75 25.18 3.59 2.5 0.286 E							_								/
C2 20230905 Summy Mederate Mid-Flood Bottom 22.2 15:30 8.31 8.24 31.82 25:22 3.59 2.5 0.278 E															/
M1 20239055 Sunny Mderate Mid-Rood Surface 1 16:06 8.54 8.28 32.09 25:41 2.35 2.5 0.303 \$E M1 20239055 Sunny Mderate Mid-Rood Surface 1 16:06 8.35 8.29 32.4 2.537 2.24 2.5 0.297 E M1 20239055 Sunny Mderate Mid-Rood Middle 3.6 16:05 8.38 8.31 32.04 25:37 2.57 2.5 0.310 \$E M1 20239055 Sunny Mderate Mid-Rood Middle 3.6 16:05 8.38 8.31 32.04 25:37 2.57 2.5 0.310 \$E M1 20239055 Sunny Mderate Mid-Rood Bettom 6.2 16:04 8.41 8.31 32:15 25:41 2.20 2.5 0.201 \$E M1 20239055 Sunny Mderate Mid-Rood Surface 1 1 16:24 8.20 8.20 33:04 25:22 2.18 2.5 0.302 \$E M2 20239055 Sunny Mderate Mid-Rood Surface 1 1 16:24 8.20 8.20 8.20 33:04 25:22 2.18 2.5 0.302 \$E M2 20239055 Sunny Mderate Mid-Rood Surface 1 1 16:24 8.20 8.20 8.20 33:04 25:22 2.18 2.5 0.207 \$E M2 20239055 Sunny Mderate Mid-Rood Middle 5.9 16:23 8.27 8.18 32:22 22:02 2.28 2.5 0.275 \$E M2 20239055 Sunny Mderate Mid-Rood Middle 5.9 16:23 8.27 8.17 32:07 25:10 2.44 2.5 0.302 \$E M2 20239055 Sunny Mderate Mid-Rood Middle 5.9 16:23 8.27 8.18 32:22 2.20 2.28 2.5 0.275 \$E M2 20239055 Sunny Mderate Mid-Rood Middle 5.9 16:23 8.27 8.17 32:07 25:10 2.44 2.5 0.302 \$E M2 20239055 Sunny Mderate Mid-Rood Middle 5.9 16:23 8.27 8.17 32:07 25:10 2.44 2.5 0.302 \$E M2 20239055 Sunny Mderate Mid-Rood Surface 1 18:622 8.19 8.27 8.17 32:07 25:10 2.44 2.5 0.302 \$E M3 20239055 Sunny Mderate Mid-Rood Surface 1 15:50 8.88 8.20 32:8 25:10 2.24 2.25 0.298 \$E M3 20239055 Sunny Mderate Mid-Rood Surface 1 15:50 8.88 8.20 32:8 25:00 23:18 25:10 2.44 2.5 0.301 \$E M3 20239055 Sunny Mderate Mid-Rood Surface 1 15:50 8.88 8.20 32:8 25:00 23:18 25:10 2.25 2.5 0.296 \$E M3 20239055 Sunny Mderate Mid-Rood Surface 1 15:50 8.88 8.20 32:8 25:00 23:18 25:10 2.25 2.5 0.296 \$E M3 20239055 Sunny Mderate Mid-Rood Surface 1 15:50 8.88 8.20 32:8 25:00 23:18 25:10 2.25 2.5 0.296 \$E M3 20239055 Sunny Mderate Mid-Rood Surface 1 15:50 8.88 8.30 32:27 25:30 22:40 25:5 0.296 \$E M3 20239055 Sunny Mderate Mid-Rood Surface 1 15:50 8.88 8.30 32:27 25:00 2.51 25:00 2.51 0.291 \$E M3 20239055 S	C2	20230505	Sunny	Mderate	Mid-Flood	Bottom	22.2	15:30	8.31 8.24	31.82	25.23	3.90	2.5	0.278 E	/
M1 20230505 Sunny Mderate Mid-Flood Middle 3.6 16.05 8.35 8.29 32.24 25.37 2.24 2.5 0.297 E															/
M1 20230505 Sunny Mderate Mid-Flood Middle 3.6 16.05 8.42 8.32 32.07 25.39 2.46 2.5 0.277 E M1 20230505 Sunny Mderate Mid-Flood Bottom 6.2 16.04 8.41 8.31 32.15 25.41 2.40 2.5 0.291 E M1 20230505 Sunny Mderate Mid-Flood Surface 1 16.24 8.29 8.20 33.04 25.2 2.18 2.5 0.287 E M2 20230505 Sunny Mderate Mid-Flood Surface 1 16.24 8.29 8.20 33.04 25.22 2.18 2.5 0.287 E M2 20230505 Sunny Mderate Mid-Flood Surface 1 16.24 8.29 8.20 8.20 83.04 25.20 2.18 2.5 0.287 E M2 20230505 Sunny Mderate Mid-Flood Surface 1 16.24 8.29 8.20 8.20 83.04 25.20 2.18 2.5 0.287 E M2 20230505 Sunny Mderate Mid-Flood Surface 1 16.24 8.29 8.20 8.20 83.04 25.20 2.18 2.5 0.287 E M2 20230505 Sunny Mderate Mid-Flood Middle 5.9 16.23 8.27 8.18 32.92 25.20 2.28 2.5 0.275 SE M2 20230505 Sunny Mderate Mid-Flood Middle 5.9 16.23 8.27 8.17 33.97 25.10 2.44 2.5 0.302 SE M2 20230505 Sunny Mderate Mid-Flood Middle 5.9 16.22 8.25 8.20 33.18 25.11 2.42 2.5 0.294 E M2 20230505 Sunny Mderate Mid-Flood Middle 5.9 16.22 8.25 8.20 33.18 25.11 2.42 2.5 0.294 E M3 20230505 Sunny Mderate Mid-Flood Surface 1 15.50 8.88 8.20 32.89 25.24 2.24 2.5 0.289 SE M3 20230505 Sunny Mderate Mid-Flood Surface 1 15.50 8.88 8.20 32.98 25.06 2.17 2.5 0.301 E M3 20230505 Sunny Mderate Mid-Flood Mid-	M1	20230505	Sunny	Mderate	Mid-Flood	Surface		16:06	8.35 8.29	32.24	25.37	2.24	2.5	0.297 E	/
M1															/
M2 20230505 Sunny Mderate Mid-Flood Surface 1 16:24 8.29 8.20 33.04 25.22 2.18 2.5 0.287 E M2 20230505 Sunny Mderate Mid-Flood Middle 5.9 16:23 8.27 8.18 32.92 25.20 2.28 2.5 0.227 SE M2 20230505 Sunny Mderate Mid-Flood Middle 5.9 16:23 8.27 8.18 32.92 25.20 2.28 2.5 0.227 SE M2 20230505 Sunny Mderate Mid-Flood Middle 5.9 16:23 8.27 8.18 32.92 25.20 2.28 2.5 0.227 SE M2 20230505 Sunny Mderate Mid-Flood Bottom 10.8 16:22 8.25 8.20 33.18 25.11 2.42 2.5 0.302 SE M2 20230505 Sunny Mderate Mid-Flood Bottom 10.8 16:22 8.25 8.20 33.18 25.11 2.42 2.5 0.294 E M3 20230505 Sunny Mderate Mid-Flood Surface 1 15:50 9.03 8.23 32.22 25.20 2.28 2.5 0.294 SE M3 20230505 Sunny Mderate Mid-Flood Surface 1 15:50 9.03 8.23 32.22 25.13 2.25 2.5 0.298 SE M3 20230505 Sunny Mderate Mid-Flood Surface 1 15:50 8.88 8.20 32.38 2.20 25.10 2.24 2.5 0.298 SE M3 20230505 Sunny Mderate Mid-Flood Middle 3.25 15:49 8.94 8.21 32.80 25.17 2.25 2.5 0.301 E M3 20230505 Sunny Mderate Mid-Flood Middle 3.25 15:49 8.94 8.21 32.80 25.17 2.25 2.5 0.294 SE M3 20230505 Sunny Mderate Mid-Flood Bottom 5.5 15:48 8.99 8.18 32.81 25.19 2.68 2.5 0.282 E M3 20230505 Sunny Mderate Mid-Flood Sottom 5.5 15:48 8.89 8.18 32.81 25.20 25.17 2.25 2.5 0.294 SE M4 20230505 Sunny Mderate Mid-Flood Sottom 5.5 15:48 8.89 8.18 32.81 25.20 25.17 2.25 2.5 0.294 SE M4 20230505 Sunny Mderate Mid-Flood Sottom 5.5 15:48 8.89 8.18 32.81 25.20 2.50 2.40 2.5 0.278 E M4 20230505 Sunny Mderate Mid-Flood Surface 1 17:12 8.40 8.32 32.72 25.00 2.91 2.5 0.278 SE M4 20230505 Sunny Mderate Mid-Flood Sottom 5.5 15:48 8.89 8.18 32.31 32.50 25.10 2.40 2.5 0.278 SE M4 20230505 Sunny Mderate Mid-Flood Sottom 5.5 15:48 8.89 8.18 32.31 32.50 25.5 0.294 SE M4 20230505 Sunny Mderate Mid-Flood Sottom 5.5 15:48 8.89 8.18 32.31 32.50 25.5 0.294 SE M4 20230505 Sunny Mderate Mid-Flood Sottom 5.5 15:48 8.89 8.18 32.31 32.50 25.5 0.294 SE M4 20230505 Sunny Mderate Mid-Flood Sottom 5.5 15:48 8.89 8.31 32.31 32.20 25.50 2.50 2.50 2.50 0.278 SE M4 20230505 Sunny Mderate Mid-Flood Sottom 5.5 15:	M1	20230505	Sunny	Mderate	Mid-Flood	Bottom	6.2	16:04	8.41 8.31	32.15	25.41	2.40	2.5	0.291 E	/
M2 20230505 Sunny Mderate Mid-Flood Middle 5.9 16:23 8.27 8.18 32.92 25.20 22.8 2.5 0.269 SE M2 20230505 Sunny Mderate Mid-Flood Middle 5.9 16:23 8.27 8.18 32.92 25.20 22.8 2.5 0.275 SE M2 20230505 Sunny Mderate Mid-Flood Middle 5.9 16:23 8.27 8.18 32.97 25.10 2.44 2.5 0.302 SE M2 20230505 Sunny Mderate Mid-Flood Middle 5.9 16:23 8.27 8.18 32.97 25.10 2.44 2.5 0.302 SE M2 20230505 Sunny Mderate Mid-Flood Middle 5.9 16:23 8.27 8.18 8.29 32.91 25.10 2.44 2.5 0.294 SE M3 20230505 Sunny Mderate Mid-Flood Middle 5.9 16:23 8.27 8.18 8.29 32.94 2.24 2.5 0.288 SE M3 20230505 Sunny Mderate Mid-Flood Surface 1 1.55.00 9.03 8.23 32.92 25.24 2.24 2.5 0.289 SE M3 20230505 Sunny Mderate Mid-Flood Surface 1 1.55.00 9.03 8.23 32.92 25.13 2.25 2.5 0.296 SE M3 20230505 Sunny Mderate Mid-Flood Middle 3.25 15.49 8.94 8.21 32.80 25.17 2.35 2.5 0.294 SE M3 20230505 Sunny Mderate Mid-Flood Middle 3.25 15.49 8.94 8.21 32.80 25.17 2.35 2.5 0.294 SE M3 20230505 Sunny Mderate Mid-Flood Middle 3.25 15.49 8.94 8.21 32.80 25.17 2.35 2.5 0.294 SE M3 20230505 Sunny Mderate Mid-Flood Middle 3.25 15.49 8.94 8.21 32.80 25.17 2.35 2.5 0.282 SE M3 20230505 Sunny Mderate Mid-Flood Surface 1 1.71.12 8.40 8.32 8.19 32.78 25.13 2.25 2.5 0.288 SE M4 20230505 Sunny Mderate Mid-Flood Surface 1 1.71.12 8.40 8.32 32.78 25.13 2.50 2.40 2.5 0.278 SE M4 20230505 Sunny Mderate Mid-Flood Surface 1 1.71.12 8.40 8.33 32.57 25.00 2.91 2.5 0.25 0.284 SE M4 20230505 Sunny Mderate Mid-Flood Surface 1 1.71.12 8.40 8.33 32.57 25.00 2.91 2.5 0.263 2.5 0.274 SE M4 20230505 Sunny Mderate Mid-Flood Surface 1 1.71.12 8.40 8.33 32.57 25.00 2.91 2.5 0.265 SE M4 20230505 Sunny Mderate Mid-Flood Surface 1 1.71.12 8.40 8.33 32.57 25.00 2.91 2.5 0.265 SE M4 20230505 Sunny Mderate Mid-Flood Surface 1 1.71.12 8.40 8.33 32.57 25.00 2.91 2.5 0.265 SE M4 20230505 Sunny Mderate Mid-Flood Surface 1 1.71.12 8.40 8.33 32.57 25.00 2.91 2.5 0.265 SE M4 20230505 Sunny Mderate Mid-Flood Surface 1 1.71.12 8.40 8.33 32.57 25.00 2.91 2.5 0.265 SE M2 2.5 0.274 SE M2 2.5 0.265 SE M2 2.5 0.265 SE M															/
M2 20230505 Sunny Mderate Mid-Flood Bottom 10.8 16:22 8.27 8.27 8.27 8.27 8.25 10 2.44 2.5 0.302 SE M2 20230505 Sunny Mderate Mid-Flood Bottom 10.8 16:22 8.25 8.20 33.18 25:11 2.42 2.5 0.294 E M3 20230505 Sunny Mderate Mid-Flood Bottom 10.8 16:22 8.19 8.17 32.89 25.24 2.24 2.5 0.294 E M3 20230505 Sunny Mderate Mid-Flood Surface 1 15:50 9.03 8.23 32.72 25:13 2.25 2.5 0.296 SE M3 20230505 Sunny Mderate Mid-Flood Middle 3.25 15:49 8.94 8.21 32.80 25:17 2.5 0.301 E M3 20230505 Sunny Mderate Mid-Flood Middle 3.25 15:49 8.94 8.21 32.80 25:17 2.5 0.294 SE M3 20230505 Sunny Mderate Mid-Flood Middle 3.25 15:49 8.94 8.21 32.80 25:17 2.5 0.294 SE M3 20230505 Sunny Mderate Mid-Flood Middle 3.25 15:49 8.94 8.21 32.80 25:17 2.5 0.294 SE M3 20230505 Sunny Mderate Mid-Flood Middle 3.25 15:49 8.94 8.21 32.80 25:17 2.5 0.294 SE M3 20230505 Sunny Mderate Mid-Flood Middle 3.25 15:49 8.94 8.21 32.80 25:17 2.5 0.294 SE M3 20230505 Sunny Mderate Mid-Flood Bottom 5.5 15:48 8.99 8.18 32.81 25:20 2.40 2.5 0.278 E M3 20230505 Sunny Mderate Mid-Flood Bottom 5.5 15:48 8.89 8.18 32.81 25:20 2.40 2.5 0.278 E M4 20230505 Sunny Mderate Mid-Flood Bottom 5.5 15:48 8.89 8.32 32.72 25:00 2.91 2.5 0.25 0.284 SE M4 20230505 Sunny Mderate Mid-Flood Bottom 5.5 15:48 8.88 8.19 32.78 25:13 25:00 2.5 0.284 SE M4 20230505 Sunny Mderate Mid-Flood Surface 1 17:12 8.40 8.32 32.72 25:00 2.91 2.5 0.267 SE M4 20230505 Sunny Mderate Mid-Flood Bottom 4.2 17:11 8.45 8.34 32.50 25:14 2.63 2.5 0.274 SE 0.267 SE 0.274 SE 0.2030508 Cloudy Moderate Mid-Flood Surface 1 19:09 9.01 8.13 33.37 24.38 2.87 2.5 0.265 SE 0.274 SE 0.274 SE 0.2230508 Cloudy Moderate Mid-Flood Middle 11:05 9:08 9:06 8.12 33.31 24.34 3.25 2.5 0.274 SE 0.271 SE 0.2230508 Cloudy Moderate Mid-Flood Middle 11:05 9:08 9:06 8.16 33.39 24.31 3.00 2.5 0.281 SE 0.281 SE 0.2230508 Cloudy Moderate Mid-Flood Middle 11:05 9:08 9:09 8:00 8:00 8:00 8:00 8:00 8:00	M2	20230505	Sunny	Mderate	Mid-Flood	Surface	1	16:24	8.20 8.22	32.96	25.18	2.38	2.5	0.269 SE	/
M2 20230505 Sunny Mderate Mid-Flood Bottom 10.8 16:22 8.19 8.17 32.89 25.24 2.24 2.5 0.289 SE M3 20230505 Sunny Mderate Mid-Flood Surface 1 15:50 9.03 8.23 32.72 25.13 2.25 2.5 0.289 SE M3 20230505 Sunny Mderate Mid-Flood Surface 1 15:50 9.03 8.23 32.72 25.13 2.25 2.5 0.289 SE M3 20230505 Sunny Mderate Mid-Flood Middle Surface 1 15:50 8.88 8.20 32.98 25.06 2.17 2.35 2.5 0.294 SE M3 20230505 Sunny Mderate Mid-Flood Middle 3.25 15:49 8.94 8.21 32.80 25:17 2.35 2.5 0.294 SE M3 20230505 Sunny Mderate Mid-Flood Middle 3.25 15:49 9.04 8.22 32.91 25:19 2.68 2.5 0.282 E M3 20230505 Sunny Mderate Mid-Flood Bottom 5.5 15:48 8.99 8.18 32.81 25:20 2.40 2.5 0.282 E M3 20230505 Sunny Mderate Mid-Flood Surface 1 17:12 8.40 8.32 32.78 25:13 2.50 2.50 0.284 SE M4 20230505 Sunny Mderate Mid-Flood Bottom 5.5 15:48 8.88 8.19 32.78 25:13 2.50 2.50 0.294 SE M4 20230505 Sunny Mderate Mid-Flood Surface 1 17:12 8.40 8.32 32.72 25:00 2.91 25:10 2.68 2.5 0.272 SE M4 20230505 Sunny Mderate Mid-Flood Bottom 5.5 15:48 8.88 8.19 32.78 25:13 2.50 2.5 0.272 SE M4 20230505 Sunny Mderate Mid-Flood Bottom 4.2 17:11 8.45 8.33 32.72 25:00 2.91 2.5 0.272 SE M4 20230505 Sunny Mderate Mid-Flood Bottom 4.2 17:11 8.45 8.34 32.50 25:50 2.74 SE M4 20230505 Sunny Mderate Mid-Flood Surface 1 17:12 8.40 8.32 81 25:00 2.91 2.5 0.272 SE M4 20230505 Sunny Mderate Mid-Flood Surface 1 17:11 8.45 8.34 32.50 25:50 2.51 2.50 0.271 SE M4 20230505 Sunny Mderate Mid-Flood Surface 1 19:19 9.9 9.01 8.13 33.37 24.38 2.87 2.5 0.265 SE M4 20230505 Cloudy Moderate Mid-Flood Surface 1 19:19 9.9 9.01 8.13 33.37 24.38 2.87 2.5 0.265 SE M1 20230508 Cloudy Moderate Mid-Flood Surface 1 19:09 9.01 8.13 33.37 24.38 2.87 2.5 0.265 SE Mid-Flood Surface Mid-Flood Surface 1 19:09 9.01 8.13 33.37 24.38 2.87 2.5 0.265 SE Mid-Flood Surface Mid-Flood Surface 1 9:09 9.01 8.13 33.37 24.38 2.87 2.5 0.265 SE Mid-Flood Surface Mid-Flood Surface 1 9:09 9.01 8.16 33.39 24.31 3.00 2.5 0.281 E Mid-Flood Surface 1 8:00 8:00 8:00 9:00 8:00 8:00 8:00 8:00															/
M2 20230505 Sunny Mderate Mid-Flood Bottom 1.8 16:22 8.19 8.17 32.89 25.24 2.24 2.5 0.289 \$E M3 20230505 Sunny Mderate Mid-Flood Surface 1 15:50 8.88 8.20 32.98 25.06 2.17 2.5 0.201 \$E M3 20230505 Sunny Mderate Mid-Flood Middle 3.25 15:49 8.94 8.21 32.80 25:17 2.5 0.301 \$E M3 20230505 Sunny Mderate Mid-Flood Middle 3.25 15:49 8.94 8.21 32.80 25:17 2.5 0.294 \$E M3 20230505 Sunny Mderate Mid-Flood Middle 3.25 15:49 8.94 8.21 32.80 25:17 2.5 0.201 \$E M3 20230505 Sunny Mderate Mid-Flood Bottom 5.5 15:48 8.99 8.18 32.81 25:20 2.50 2.40 2.5 0.282 \$E M3 20230505 Sunny Mderate Mid-Flood Bottom 5.5 15:48 8.99 8.18 32.81 25:20 2.50 2.50 0.284 \$E M4 20230505 Sunny Mderate Mid-Flood Surface 1 17:12 8.40 8.31 32.21 25:20 2.50 2.50 0.284 \$E M4 20230505 Sunny Mderate Mid-Flood Surface 1 17:12 8.40 8.31 32.27 25:00 2.91 2.5 0.251 \$E M4 20230505 Sunny Mderate Mid-Flood Bottom 5.5 15:48 8.89 8.18 32.81 25:20 2.5 0.254 \$E M4 20230505 Sunny Mderate Mid-Flood Surface 1 17:12 8.40 8.31 32.57 25:00 2.91 2.5 0.263 2.5 0.272 \$E M4 20230505 Sunny Mderate Mid-Flood Bottom 4.2 17:11 8.45 8.34 32.50 2.5 0.251 2.5 0.267 \$E M4 20230505 Sunny Mderate Mid-Flood Bottom 4.2 17:11 8.45 8.34 32.50 2.5 0.251 2.5 0.267 \$E M4 20230505 Sunny Mderate Mid-Flood Bottom 4.2 17:11 8.45 8.34 32.50 2.5 0.251 2.5 0.267 \$E M4 20230505 Sunny Mderate Mid-Flood Bottom 4.2 17:11 8.45 8.34 32.50 2.5 0.251 2.5 0.267 \$E M4 20230505 Sunny Mderate Mid-Flood Bottom 4.2 17:11 8.45 8.34 32.50 2.5 0.251 2.5 0.267 \$E M4 20230508 Cloudy Moderate Mid-Flood Bottom 4.2 17:11 8.45 8.34 33.31 2.43 2.87 2.5 0.251 2.5 0.265 \$E Mid-Flood Surface 1 9.99 9.01 8.13 33.37 2.43 3.257 2.5 0.251 2.5 0.261 \$E Mid-Flood Surface 1 9.99 9.01 8.13 33.37 2.43 2.87 2.5 0.251 2.5 0.261 \$E Mid-Flood Surface 1 9.99 9.01 8.16 33.34 2.44 3.19 2.5 0.251 0.281 \$E Mid-Flood Surface 1 9.99 9.01 8.16 33.34 2.44 3.19 2.5 0.251 0.281 \$E Mid-Flood Surface 1 9.99 9.01 8.16 33.34 2.44 3.19 2.5 0.281 \$E Mid-Flood Surface 1 9.99 9.01 8.16 33.34 2.44 3.19 2.5 0.251 0.281										33.18	25.11		2.5		/
M3 20230505 Sunny Mderate Mid-Flood Surface 1 15:50 8.88 8.20 32.98 25.06 2.17 2.5 0.301 E M3 20230505 Sunny Mderate Mid-Flood Middle 3.25 15:49 9.04 8.21 32.80 25.17 2.35 2.5 0.294 SE M3 20230505 Sunny Mderate Mid-Flood Bindle 3.25 15:49 9.04 8.22 32.91 25.19 2.68 2.5 0.282 E M3 20230505 Sunny Mderate Mid-Flood Bottom 5.5 15:48 8.99 8.18 32.81 25.20 2.40 2.5 0.278 E M4 20230505 Sunny Mderate Mid-Flood Bottom 5.5 15:48 8.88 8.19 32.78 25:13 2.50 2.5 0.278 E M4 20230505 Sunny Mderate Mid-Flood Surface 1 17:12 8.40 8.32 32.72 2.500 2.91															/
M3 20230505 Sunny Mderate Mid-Flood Middle 3.25 15:49 8.94 8.21 32.90 25.17 2.35 2.5 0.294 \$E M3 20230505 Sunny Mderate Mid-Flood Bottom 5.5 15:48 8.99 8.18 32.21 25:19 2.68 2.5 0.282 E M3 20230505 Sunny Mderate Mid-Flood Bottom 5.5 15:48 8.99 8.18 32.81 25:20 2.40 2.5 0.278 E M3 20230505 Sunny Mderate Mid-Flood Bottom 5.5 15:48 8.89 8.19 8.19 32.78 25:13 25:0 2.40 2.5 0.278 E M4 20230505 Sunny Mderate Mid-Flood Surface 1 17:12 8.40 8.32 32.21 25:07 2.63 2.5 0.224 \$E M4 20230505 Sunny Mderate Mid-Flood Surface 1 17:12 8.40 8.33 32:07 25:00 2.91 2.5 0.267 \$E M4 20230505 Sunny Mderate Mid-Flood Bottom 4.2 17:11 8.42 8.30 8.33 32:07 25:00 2.91 2.5 0.267 \$E M4 20230505 Sunny Mderate Mid-Flood Bottom 4.2 17:11 8.42 8.33 32:00 25:14 2.63 2.5 0.274 \$E M4 20230505 Sunny Mderate Mid-Flood Bottom 4.2 17:11 8.42 8.33 32:00 25:14 2.63 2.5 0.274 \$E M4 20230505 Sunny Mderate Mid-Flood Surface 1 19:09 9.01 8.13 33:37 24:38 2.87 2.5 0.265 \$E M2 20230508 Cloudy Moderate Mid-Flood Surface 1 9:09 9.01 8.13 33:37 24:38 2.87 2.5 0.265 \$E Mid-Flood Surface 1 9:09 9.01 8.13 33:37 24:38 2.87 2.5 0.261 \$E Mid-Flood Surface 1 9:09 9.01 8.13 33:37 24:38 2.87 2.5 0.261 \$E Mid-Flood Middle 11:05 9:08 9.06 8.12 33:31 24:34 3.25 2.5 0.271 \$E Mid-Flood Middle 11:05 9:08 9.05 8.18 33:32 24:29 2:99 2.5 0.281 \$E Mid-Flood Middle 11:05 9:08 9.05 8.16 33:39 24:31 3.00 2.5 0.281 \$E Mid-Flood Middle 11:05 9:08 9.05 8.16 33:39 24:31 3.00 2.5 0.281 \$E Mid-Flood Middle 11:05 9:08 9.05 8.16 33:39 24:31 3.00 2.5 0.281 \$E Mid-Flood Middle 11:05 9:08 9.05 8.16 33:39 24:31 3.00 2.5 0.281 \$E Mid-Flood Middle 11:05 9:08 9.05 8.16 33:39 24:31 3.00 2.5 0.281 \$E Mid-Flood Middle 11:05 9:08 9.05 8.16 33:39 24:31 3.00 2.5 0.281 \$E Mid-Flood Middle 11:05 9:08 9.05 8.16 33:39 24:31 3.00 2.5 0.281 \$E Mid-Flood Middle 11:05 9:08 9.05 8.16 33:39 24:31 3.00 2.5 0.281 \$E Mid-Flood Middle 11:05 9:08 9.05 8.16 33:39 24:31 3.00 2.5 0.281 \$E Mid-Flood Middle 11:05 9:08 9.05 8.16 33:39 24:31 3.00 2.5 0.281 \$E Mid-Flood Middle															/
M3 20230505 Sunny Mderate Mid-Flood Bottom 5.5 15.48 8.89 8.18 32.81 25.20 2.40 2.5 0.28 E M4 20230505 Sunny Mderate Mid-Flood Surface 1 17.12 8.40 8.32 32.72 25.07 2.63 2.5 0.284 SE M4 20230505 Sunny Mderate Mid-Flood Surface 1 17.12 8.40 8.32 32.72 25.07 2.63 2.5 0.272 SE M4 20230505 Sunny Mderate Mid-Flood Surface 1 17.12 8.40 8.32 32.72 25.07 2.63 2.5 0.272 SE M4 20230505 Sunny Mderate Mid-Flood Bottom 4.2 17.11 8.45 8.34 32.50 25.14 2.63 2.5 0.267 SE M4 20230505 Sunny Mderate Mid-Flood Bottom 4.2 17.11 8.42 8.33 32.52 25.05 2.86 2.5 0.274 SE M4 20230505 Sunny Mderate Mid-Flood Bottom 4.2 17.11 8.42 8.33 32.52 25.05 2.86 2.5 0.274 SE M2 20230508 Cloudy Moderate Mid-Flood Surface 1 9.99 9.01 8.13 33.37 24.38 2.87 2.5 0.265 SE M3 20230508 Cloudy Moderate Mid-Flood Middle 11.05 9.08 9.06 8.12 33.31 24.34 32.50 25.1 0.272 E M2 20230508 Cloudy Moderate Mid-Flood Middle 11.05 9.08 9.06 8.12 33.31 24.34 32.5 2.5 0.271 E M2 20230508 Cloudy Moderate Mid-Flood Middle 11.05 9.08 9.02 8.13 33.27 24.29 2.92 2.5 0.271 E M2 20230508 Cloudy Moderate Mid-Flood Middle 11.05 9.08 9.02 8.13 33.27 24.29 2.92 2.5 0.281 E M2 20230508 Cloudy Moderate Mid-Flood Sottom 21.1 9.97 9.00 8.16 33.24 24.44 3.19 2.5 0.281 E M2 20230508 Cloudy Moderate Mid-Flood Sottom 21.1 9.97 9.00 8.16 33.24 24.44 3.19 2.5 0.281 E M2 20230508 Cloudy Moderate Mid-Flood Sottom 21.1 9.97 9.00 8.16 33.20 24.21 3.00 2.5 0.281 E M2 20230508 Cloudy Moderate Mid-Flood Surface 1 8.02 8.69 8.36 32.30 24.27 4.04 2.5 0.294 SE M2 20230508 Cloudy Moderate Mid-Flood Surface 1 8.02 8.69 8.36 32.30 24.27 4.04 2.5 0.294 SE M2 20230508 Cloudy Moderate Mid-Flood Surface 1 8.02 8.69 8.36 32.30 24.27 4.04 2.5 0.294 SE M3 2.50 2.294 SE M3 2.50 2.204 Mid-Flood Surface 1 8.02 8.69 8.36 32.30 24.27 4.04 2.5 0.294 SE M3 2.50 2.204 SE M3 2.50 2.204 Mid-Flood Surface 1 8.02 8.69 8.36 32.30 24.27 4.04 2.5 0.294 SE M3 2.50 2.204 E M3 2.50 2.204 Mid-Flood Surface 1 8.02 8.69 8.30 8.30 8.30 2.30 24.27 4.04 2.5 0.294 SE M3 2.50 2.204 E M3	M3	20230505	Sunny	Mderate	Mid-Flood	Middle		15:49	8.94 8.21	32.80	25.17	2.35	2.5	0.294 SE	/
M3 20230505 Sunny Mderate Mid-Flood Bottom 5.5 15.48 8.88 8.19 32.78 25.13 2.50 2.5 0.284 SE M4 20230505 Sunny Mderate Mid-Flood Surface 1 17:12 8.40 8.32 32.72 25.07 2.63 2.5 0.272 SE M4 20230505 Sunny Mderate Mid-Flood Surface 1 17:12 8.40 8.33 32.57 25.00 2.91 2.5 0.267 SE M4 20230505 Sunny Mderate Mid-Flood Bottom 4.2 17:11 8.45 8.34 32.50 25.14 2.63 2.5 0.303 SE M4 20230505 Sunny Mderate Mid-Flood Bottom 4.2 17:11 8.42 8.33 32.57 25.00 2.91 2.5 0.267 SE M4 20230505 Sunny Moderate Mid-Flood Bottom 4.2 17:11 8.42 8.33 32.57 25.00 2.91 2.5 0.263 2.5 0.303 SE M4 20230505 Sunny Moderate Mid-Flood Bottom 4.2 17:11 8.42 8.33 32.52 25.05 2.86 2.5 0.274 SE M4 20230505 Cloudy Moderate Mid-Flood Surface 1 9.09 9.01 8.13 33.37 24.38 2.87 2.5 0.265 SE M4 20230505 Cloudy Moderate Mid-Flood Middle 11.05 9.08 9.05 8.18 33.32 24.29 2.92 2.5 0.291 SE M4 20230505 Cloudy Moderate Mid-Flood Middle 11.05 9.08 9.06 8.12 33.31 24.34 3.25 2.5 0.271 E M4 20230505 Cloudy Moderate Mid-Flood Middle 11.05 9.08 9.06 8.12 33.31 24.34 3.25 2.5 0.271 E M4 20230505 Cloudy Moderate Mid-Flood Middle 11.05 9.08 9.02 8.13 33.27 24.29 2.79 2.5 0.281 E M4 20230505 Cloudy Moderate Mid-Flood Bottom 21.1 9.07 9.00 8.16 33.34 24.44 3.19 2.5 0.302 SE M4 20230505 Cloudy Moderate Mid-Flood Bottom 21.1 9.07 9.00 8.16 33.34 24.44 3.19 2.5 0.302 SE M4 20230505 Cloudy Moderate Mid-Flood Bottom 21.1 9.07 9.00 8.16 33.34 24.44 3.19 2.5 0.302 SE M4 20230505 Cloudy Moderate Mid-Flood Surface 1 8.02 8.69 8.69 8.36 32.30 24.37 4.04 2.5 0.294 SE M4 25 0.294 SE M4															/
M4 20230505 Sunny Mderate Mid-Flood Surface 1 17:12 8.40 8.33 32.57 25.00 2.91 2.5 0.267 SE M4 20230505 Sunny Mderate Mid-Flood Bottom 4.2 17:11 8.45 8.34 32.50 25.14 2.63 2.5 0.303 SE M4 20230505 Sunny Mderate Mid-Flood Bottom 4.2 17:11 8.42 8.33 32.52 25.05 2.86 2.5 0.274 SE M4 20230508 Cloudy Moderate Mid-Flood Surface 1 9.99 9.01 8.13 33.37 24.38 2.87 2.5 0.265 SE M4 2.5 0.26	M3	20230505	Sunny	Mderate	Mid-Flood	Bottom	5.5	15:48	8.88 8.19	32.78	25.13	2.50	2.5	0.284 SE	/
M4 20230505 Sunny Mderate Mid-Flood Bottom 4.2 17:11 8.45 8.34 32.50 25.14 2.63 2.5 0.303 \$E\$ M4 20230505 Sunny Mderate Mid-Flood Bottom 4.2 17:11 8.42 8.33 32.52 25.05 2.86 2.5 0.274 \$E\$ C1 20230508 Cloudy Moderate Mid-Flood Surface 1 9.99 9.01 8.13 33.37 24.38 2.87 2.5 0.265 \$E\$ C1 20230508 Cloudy Moderate Mid-Flood Surface 1 9.99 9.05 8.18 33.32 24.29 2.92 2.5 0.291 \$E\$ C1 20230508 Cloudy Moderate Mid-Flood Middle 11.05 9.08 9.06 8.12 33.31 24.34 3.25 2.5 0.271 \$E\$ C1 20230508 Cloudy Moderate Mid-Flood Middle 11.05 9.08 9.06 8.12 33.31 24.34 3.25 2.5 0.271 \$E\$ C1 20230508 Cloudy Moderate Mid-Flood Middle 11.05 9.08 9.06 8.12 33.31 24.34 3.25 2.5 0.271 \$E\$ C1 20230508 Cloudy Moderate Mid-Flood Middle 11.05 9.08 9.06 8.12 33.31 24.34 3.25 2.5 0.271 \$E\$ C1 20230508 Cloudy Moderate Mid-Flood Surface 11.9907 9.00 8.16 33.34 24.44 3.19 2.5 0.281 \$E\$ C1 20230508 Cloudy Moderate Mid-Flood Bottom 21.1 9.07 9.00 8.16 33.39 24.31 3.00 2.5 0.281 \$E\$ C2 20230508 Cloudy Moderate Mid-Flood Surface 1 8.02 8.54 8.30 3.20.5 24.42 3.90 2.5 0.283 \$E\$ C2 20230508 Cloudy Moderate Mid-Flood Surface 1 8.02 8.54 8.30 3.20.5 24.47 4.0 2.5 0.294 \$E\$															/
M4 20230505 Sunny Mderate Mid-Flood Bottom 4.2 17:11 8.42 8.33 32.52 25.05 2.86 2.5 0.274 SE C1 20230508 Cloudy Moderate Mid-Flood Surface 1 9:09 9:01 8.18 33.37 24.38 2.87 2.5 0.265 SE C1 20230508 Cloudy Moderate Mid-Flood Middle 11:05 9:08 9:06 8.12 33.31 24.34 3.25 2.5 0.271 SE C1 20230508 Cloudy Moderate Mid-Flood Middle 11:05 9:08 9:06 8.12 33.31 24.34 3.25 2.5 0.272 E C1 20230508 Cloudy Moderate Mid-Flood Middle 11:05 9:08 9:06 8.12 33.31 24.34 3.25 2.5 0.272 E C1 20230508 Cloudy Moderate Mid-Flood Middle 11:05 9:08 9:08 9:06 8.12 33.31 24.34 3.25 2.5 0.272 E C1 20230508 Cloudy Moderate Mid-Flood Bottom 21:1 9:07 9:00 8:16 33.24 24.44 3.19 2.5 0.302 SE C1 20230508 Cloudy Moderate Mid-Flood Bottom 21:1 9:07 9:05 8:16 33.39 24.31 3.00 2.5 0.283 E C2 20230508 Cloudy Moderate Mid-Flood Surface 1 8:02 8:54 8:30 32.05 24.42 3.90 2.5 0.266 SE C2 20230508 Cloudy Moderate Mid-Flood Surface 1 8:02 8:59 8:59 8:30 32.05 24.37 4.04 2.5 0.294 SE										32.50	25.14				/
C1 20230508 Cloudy Moderate Mid-Flood Middle 11.05 9.08 9.06 8.12 33.32 24.29 2.92 2.5 0.291 SE C1 20230508 Cloudy Moderate Mid-Flood Middle 11.05 9.08 9.06 8.12 33.31 24.34 3.25 2.5 0.272 E C1 20230508 Cloudy Moderate Mid-Flood Middle 11.05 9.08 9.06 8.12 33.31 24.34 3.25 2.5 0.272 E C1 20230508 Cloudy Moderate Mid-Flood Bottom 21.1 9.07 9.08 8.16 33.24 24.44 3.19 2.5 0.302 SE C1 20230508 Cloudy Moderate Mid-Flood Bottom 21.1 9.07 9.05 8.16 33.24 24.44 3.19 2.5 0.302 SE C2 20230508 Cloudy Moderate Mid-Flood Surface 1 8.02 8.69 8.36 33.20 24.31 3.00 2.5 0.266 SE C2 20230508 Cloudy Moderate Mid-Flood Surface 1 8.02 8.69 8.36 32.30 24.37 4.04 2.5 0.224 SE															/
C1 20230508 Cloudy Moderate Mid-Flood Middle 11.05 9.08 9.06 8.12 33.31 24.34 3.25 2.5 0.272 E C1 20230508 Cloudy Moderate Mid-Flood Middle 11.05 9.08 9.06 8.12 33.27 24.29 2.79 2.5 0.281 E C1 20230508 Cloudy Moderate Mid-Flood Bottom 21.1 9.07 9.00 8.16 33.24 24.44 3.19 2.5 0.302 SE C1 20230508 Cloudy Moderate Mid-Flood Bottom 21.1 9.07 9.05 8.16 33.29 24.31 3.00 2.5 0.283 E C2 20230508 Cloudy Moderate Mid-Flood Surface 1 8.02 8.54 8.30 32.05 24.42 3.90 2.5 0.266 SE C2 20230508 Cloudy Moderate Mid-Flood Surface 1 8.02 8.69 8.36 32.30 24.37 4.04 2.5 0.224 SE															/
C1 20230508 Cloudy Moderate Mid-Flood Bottom 21.1 9.07 9.00 8.16 33.24 24.44 3.19 2.5 0.302 SE C1 20230508 Cloudy Moderate Mid-Flood Bottom 21.1 9.07 9.05 8.16 33.34 24.44 3.19 2.5 0.283 E C2 20230508 Cloudy Moderate Mid-Flood Surface 1 8.02 8.59 8.30 32.05 24.42 3.90 2.5 0.283 E C2 20230508 Cloudy Moderate Mid-Flood Surface 1 8.02 8.69 8.36 32.30 24.37 4.04 2.5 0.224 SE	C1	20230508	Cloudy	Moderate	Mid-Flood	Middle		9:08	9.06 8.12	33.31	24.34	3.25	2.5	0.272 E	/
C1 20230508 Cloudy Moderate Mid-Flood Bottom 21.1 9.07 9.05 8.16 33.39 24.31 3.00 2.5 0.283 E 20230508 Cloudy Moderate Mid-Flood Surface 1 8.02 8.54 8.30 32.05 24.42 3.90 2.5 0.266 SE C2 20230508 Cloudy Moderate Mid-Flood Surface 1 8.02 8.69 8.36 32.30 24.37 4.04 2.5 0.224 SE															/
C2 20230508 Cloudy Moderate Mid-Flood Surface 1 8.02 8.69 8.36 32.30 24.37 4.04 2.5 0.294 SE	C1	20230508	Cloudy	Moderate	Mid-Flood	Bottom	21.1	9:07	9.05 8.16	33.39	24.31	3.00	2.5	0.283 E	/
															/
,				Moderate											/

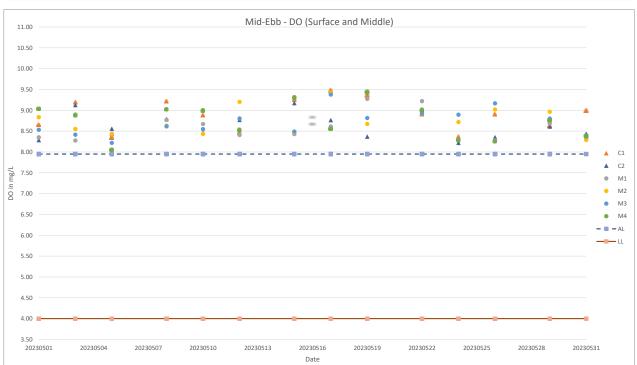
														T
Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)		O (mg/L) pH	Sal (ppt)	Temp (?)	Turbidty (NTU)	SS	Current Velocity (m/s) Current Direction	Remark
C2 C2	20230508 20230508		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	10.9 20.8	8:01 8:00	8.66 8.35 8.70 8.33	32.30 32.31	24.31 24.36	3.85 3.89	2.5	0.269 SE 0.311 E	/
C2	20230508	Cloudy	Moderate	Mid-Flood	Bottom	20.8	8:00	8.66 8.36	32.28	24.31	4.14	2.5	0.302 SE	/
M1 M1	20230508 20230508		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	8:35 8:35	8.96 8.24 8.97 8.24	32.54 32.76	24.53 24.51	2.41	2.5	0.284 SE 0.299 E	//
M1	20230508	Cloudy	Moderate	Mid-Flood	Middle	3.35	8:34	8.90 8.18	32.52	24.54	2.34	2.5	0.271 SE	/
M1 M1	20230508 20230508		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	3.35 5.7	8:34 8:33	8.99 8.19 9.06 8.17	32.67 32.67	24.67 24.57	2.52 2.57	2.5	0.268 SE 0.289 SE	/
M1	20230508	Cloudy	Moderate	Mid-Flood	Bottom	5.7	8:33	9.00 8.21	32.64	24.58	2.49	2.5	0.280 SE	/
M2 M2	20230508 20230508	Cloudy	Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	8:52 8:52	8.31 8.33 8.27 8.36	32.72 32.91	24.61 24.68	2.20 1.97	2.5 2.5	0.266 E 0.271 SE	/
M2	20230508	Cloudy	Moderate	Mid-Flood	Middle	5.85	8:51	8.27 8.31	32.70	24.66	2.04	2.5	0.284 SE	/
M2	20230508		Moderate	Mid-Flood	Middle	5.85	8:51	8.21 8.36	32.88	24.65	2.03	2.5	0.279 SE	/
M2 M2	20230508 20230508		Moderate Moderate	Mid-Flood Mid-Flood	Bottom	10.7 10.7	8:50 8:50	8.20 8.30 8.30 8.40	32.87 32.84	24.63 24.51	2.06 1.89	2.5	0.297 E 0.298 SE	1
M3	20230508	Cloudy	Moderate	Mid-Flood	Surface	1	8:18	8.77 8.21	32.74	24.31	3.32	2.5	0.297 E	/
M3 M3	20230508		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	3.3	8:18 8:17	8.77 8.27 8.82 8.27	32.72 32.76	24.40 24.40	3.10 3.05	2.5 2.5	0.297 E 0.276 SE	/
M3	20230508	Cloudy	Moderate	Mid-Flood	Middle	3.3	8:17	8.83 8.27	32.76	24.43	3.32	2.5	0.273 SE	/
M3 M3	20230508 20230508		Moderate Moderate	Mid-Flood Mid-Flood	Bottom	5.6 5.6	8:16 8:16	8.88 8.21 8.83 8.23	32.76 32.69	24.39 24.40	2.87 2.93	2.5	0.299 SE 0.279 SE	/
M4	20230508		Moderate	Mid-Flood	Surface	1	9:35	8.78 8.21	32.64	24.32	3.37	2.5	0.305 SE	/
M4 M4	20230508 20230508		Moderate Moderate	Mid-Flood Mid-Flood	Surface Bottom	4.7	9:35 9:34	8.89 8.32 8.73 8.24	32.70 32.82	24.42 24.47	3.18 3.48	2.5 2.5	0.269 SE 0.289 E	/
M4	20230508		Moderate	Mid-Flood	Bottom	4.7	9:34	8.76 8.25	32.82	24.47	3.47	2.5	0.295 SE	/
C1	20230510		Moderate	Mid-Flood	Surface	1	9:21	8.36 8.19	33.57	25.96	3.31	2.5	0.277 E	/
C1 C1	20230510 20230510		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	11.45	9:21 9:20	8.38 8.20 8.27 8.25	33.55 33.57	25.96 25.91	3.09 3.56	2.5	0.276 SE 0.266 E	/
C1	20230510	Cloudy	Moderate	Mid-Flood	Middle	11.45	9:20	8.50 8.21	33.48	25.93	3.48	2.5	0.291 SE	/
C1 C1	20230510 20230510		Moderate Moderate	Mid-Flood Mid-Flood	Bottom	21.9 21.9	9:19 9:19	8.28 8.19 8.44 8.22	33.44 33.49	25.93 25.92	3.69 3.41	2.5	0.266 SE 0.279 SE	/
C2	20230510	Cloudy	Moderate	Mid-Flood	Surface	1	8:07	8.40 8.31	33.27	25.96	3.65	2.5	0.268 SE	/
C2 C2	20230510 20230510		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	10.8	8:07 8:06	8.45 8.27 8.24 8.27	33.22 33.20	25.98 25.93	3.81 3.86	2.5 2.5	0.298 SE 0.265 SE	/
C2 C2	20230510		Moderate	Mid-Flood	Middle	10.8	8:06	8.24 8.27 8.32 8.32	33.20 33.17	25.93 25.99	3.86	2.5	0.265 SE 0.310 E	/
C2	20230510	Cloudy	Moderate	Mid-Flood	Bottom	20.6	8:05	8.25 8.29	33.31	26.02	4.17	2.5	0.263 SE	/
M1	20230510 20230510		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	20.6	8:05 8:42	8.43 8.28 8.23 8.28	33.27 33.98	26.01 26.10	4.06 3.63	2.5	0.283 SE 0.274 SE	//
M1	20230510	Cloudy	Moderate	Mid-Flood	Surface	1	8:42	8.30 8.26	33.92	26.07	3.62	2.5	0.306 SE	/
M1 M1	20230510 20230510		Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	3.55 3.55	8:41 8:41	8.39 8.31 8.43 8.28	33.89 33.93	26.10 26.02	3.32 3.37	2.5 2.5	0.269 SE 0.264 SE	//
M1	20230510	Cloudy	Moderate	Mid-Flood	Bottom	6.1	8:40	8.23 8.33	33.88	26.06	3.28	2.5	0.299 E	/
M1 M2	20230510 20230510		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	6.1	8:40 9:01	8.26 8.32 8.25 8.27	33.92 33.34	26.01 25.79	3.67 3.69	2.5	0.278 E 0.284 E	/
M2	20230510		Moderate	Mid-Flood	Surface	1	9:01	8.27 8.28	33.27	25.81	3.63	2.5	0.306 SE	/
M2	20230510		Moderate	Mid-Flood	Middle	5.9	9:00	8.27 8.31	33.35	25.82	3.98	2.5	0.297 SE	/
M2 M2	20230510 20230510		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	5.9 10.8	9:00 8:59	8.29 8.27 8.29 8.31	33.23 33.21	25.81 25.81	3.78 3.91	2.5 2.5	0.309 SE 0.292 E	//
M2	20230510		Moderate	Mid-Flood	Bottom	10.8	8:59	8.31 8.28	33.30	25.76	3.93	2.5	0.298 E	/
M3 M3	20230510 20230510		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	8:24 8:24	8.35 8.32 8.48 8.33	32.93 33.06	25.77 25.71	3.15 3.32	2.5	0.285 SE 0.267 SE	//
M3	20230510	Cloudy	Moderate	Mid-Flood	Middle	4.05	8:23	8.39 8.35	33.01	25.83	3.34	2.5	0.282 SE	/
M3 M3	20230510 20230510		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	4.05 7.1	8:23 8:22	8.52 8.30 8.37 8.37	33.04 33.06	25.75 25.77	3.10 3.12	2.5	0.283 SE 0.305 E	/
M3	20230510		Moderate	Mid-Flood	Bottom	7.1	8:22	8.48 8.38	32.92	25.73	3.46	2.5	0.281 SE	/
M4	20230510		Moderate	Mid-Flood	Surface	1	9:50 9:50	8.18 8.14	33.61	25.79	2.82	2.5	0.270 SE	
M4 M4	20230510 20230510		Moderate Moderate	Mid-Flood Mid-Flood	Surface Bottom	4.6	9:50	8.27 8.24 8.16 8.14	33.75 33.67	25.89 25.81	2.91 2.61	2.5	0.274 E 0.271 SE	//
M4	20230510		Moderate	Mid-Flood	Bottom	4.6	9:49	8.27 8.20	33.63	25.82	2.83	2.5	0.270 E	/
C1 C1	20230512 20230512		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	11:23 11:23	8.99 8.28 9.03 8.32	33.43 33.54	25.53 25.50	2.91	2.5	0.263 SE 0.268 SE	/
C1	20230512	Cloudy	Moderate	Mid-Flood	Middle	10.35	11:22	9.17 8.29	33.57	25.50	2.90	2.5	0.304 SE	/
C1 C1	20230512 20230512		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	10.35 19.7	11:22 11:21	9.19 8.33 9.02 8.28	33.51 33.35	25.45 25.43	3.14 3.32	2.5 2.5	0.270 SE 0.305 E	_/
C1	20230512		Moderate	Mid-Flood	Bottom	19.7	11:21	9.20 8.35	33.41	25.50	3.28	2.5	0.293 SE	/
C2 C2	20230512 20230512		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	9:53 9:53	8.96 8.31 9.14 8.32	32.45 32.29	25.53 25.67	3.49 3.51	2.5 2.5	0.301 SE 0.264 SE	/
C2	20230512		Moderate	Mid-Flood	Middle	10.55	9:53	9.14 8.32 8.97 8.32	32.29	25.70	3.65	2.5	0.264 SE 0.310 SE	//
C2	20230512		Moderate	Mid-Flood	Middle	10.55	9:52	9.13 8.36	32.32	25.55	3.58	2.5	0.280 SE	/
C2 C2	20230512		Moderate Moderate	Mid-Flood Mid-Flood	Bottom	20.1	9:51 9:51	9.02 8.32 9.09 8.38	32.48 32.34	25.61 25.67	3.98 3.86	2.5 2.5	0.298 E 0.304 SE	1
M1	20230512	Cloudy	Moderate	Mid-Flood	Surface	1	10:21	8.39 8.22	32.21	25.76	2.65	2.5	0.285 SE	/
M1 M1	20230512 20230512		Moderate Moderate		Surface Middle	3.3	10:21 10:20	8.47 8.16 8.37 8.19	32.35 32.27	25.80 25.78	2.54 2.68	2.5	0.298 SE 0.303 SE	1/
M1	20230512	Cloudy	Moderate	Mid-Flood	Middle	3.3	10:20	8.46 8.19	32.46	25.86	2.43	2.5	0.265 SE	/
M1 M1	20230512 20230512		Moderate Moderate		Bottom Bottom	5.6 5.6	10:19 10:19	8.63 8.18 8.40 8.19	32.44 32.37	25.84 25.84	2.49 2.62		0.300 SE 0.278 E	//
M2	20230512	Cloudy	Moderate	Mid-Flood	Surface	1	10:39	8.41 8.18	32.79	25.84	3.43	2.5	0.276 SE	/
M2 M2	20230512 20230512		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	6.6	10:39 10:38	8.37 8.17 8.34 8.20	32.90 32.96	25.71 25.82	3.08 3.17		0.295 SE 0.270 SE	/
M2 M2	20230512	Cloudy	Moderate	Mid-Flood	Middle	6.6	10:38	8.34 8.20 8.50 8.21	32.96 32.94	25.82 25.81	3.17		0.270 SE 0.305 SE	/
M2	20230512 20230512		Moderate			12.2	10:37	8.48 8.22	32.79	25.74 25.84	2.98		0.298 SE 0.288 SE	/
M2 M3	20230512		Moderate Moderate	Mid-Flood Mid-Flood		12.2	10:37 10:06	8.46 8.23 8.94 8.22	32.92 33.03	25.84 25.58	3.41 2.67	2.5 2.5	0.288 SE 0.276 SE	/_
M3	20230512	Cloudy	Moderate	Mid-Flood	Surface	1	10:06	9.04 8.23	33.13	25.50	2.28	2.5	0.310 E	/
M3 M3	20230512 20230512		Moderate Moderate		Middle Middle	3.95 3.95	10:05 10:05	8.94 8.18 8.84 8.19	33.03 33.26	25.63 25.55	2.61 2.47		0.271 SE 0.295 SE	//
M3	20230512	Cloudy	Moderate	Mid-Flood	Bottom	6.9	10:04	8.93 8.23	33.00	25.57	2.48	2.5	0.271 SE	/
M3 M4	20230512 20230512		Moderate Moderate	Mid-Flood Mid-Flood		6.9	10:04 10:56	8.94 8.23 8.61 8.29	33.18 32.75	25.67 25.42	2.60 3.09		0.292 SE 0.309 E	1/
M4	20230512	Cloudy	Moderate	Mid-Flood	Surface	1	10:56	8.67 8.32	32.74	25.49	2.91	2.5	0.271 SE	/
M4	20230512		Moderate		Bottom	4.6 4.6	10:55	8.60 8.29	32.57 32.66	25.39 25.47	2.80		0.309 SE	/
M4 C1	20230512 20230515		Moderate Moderate		Bottom Surface	4.6	10:55 14:18	8.53 8.31 9.35 8.23	32.66 32.86	25.47 24.93	2.72 3.09		0.270 SE 0.292 SE	/_
C1	20230515	Cloudy	Moderate	Mid-Flood	Surface	1 10.45	14:18	9.39 8.23	32.74	25.01	3.01	2.5	0.306 SE	/
C1 C1	20230515 20230515		Moderate Moderate	Mid-Flood Mid-Flood		10.45 10.45	14:17 14:17	9.35 8.25 9.41 8.27	32.83 32.80	24.97 25.00	3.37 3.42		0.291 E 0.286 E	1/
C1	20230515	Cloudy	Moderate	Mid-Flood	Bottom	19.9	14:16	9.39 8.21	32.87	25.01	3.89	2.5	0.295 E	/
C1 C2	20230515 20230515		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	19.9	14:16 13:04	9.39 8.27 8.39 8.31	32.77 32.97	25.02 25.09	3.96 3.79		0.278 E 0.278 E	//
C2	20230515	Cloudy	Moderate	Mid-Flood	Surface	1	13:04	8.40 8.33	33.02	25.09	3.86	2.5	0.267 SE	/
C2 C2	20230515 20230515		Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	11.3 11.3	13:03 13:03	8.38 8.32 8.38 8.38	32.97 33.00	25.05 25.08	4.02 3.76		0.272 SE 0.303 E	/
C2	20230515	Cloudy	Moderate	Mid-Flood	Bottom	21.6	13:02	8.37 8.36	32.92	24.96	4.28	2.5	0.282 SE	/
C2	20230515		Moderate	Mid-Flood		21.6	13:02	8.39 8.38	32.96	24.94 25.01	4.66		0.302 E 0.272 SE	
M1 M1	20230515 20230515		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	13:38 13:38	9.17 8.18 9.24 8.23	33.01 32.92	25.07	3.28 3.30		0.272 SE 0.287 SE	/_
M1	20230515	Cloudy	Moderate	Mid-Flood	Middle	3.4	13:37	9.25 8.24	32.96	24.98	3.04	2.5	0.303 E	/
M1	20230515		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	3.4 5.8	13:37 13:36	9.30 8.18 9.25 8.22	33.01 33.01	24.93 24.95	3.09 2.97		0.300 SE 0.290 E	//
M1	20230515					5.8			32.99		3.37			

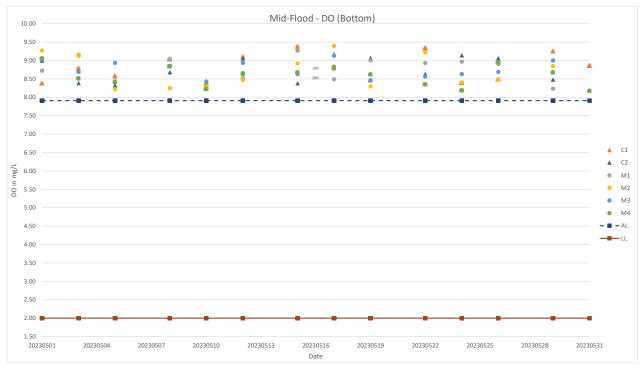
														1
Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)		DO (mg/L) pH	Sal (ppt)	Temp (?)	Turbidty (NTU)	SS	Current Velocity (m/s) Current Direction	Remark
M2 M2	20230515 20230515		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	13:57 13:57	8.84 8.29 8.92 8.33	33.13 33.16	25.13 25.04	3.04 3.22	2.5	0.311 E 0.303 SE	/
M2	20230515	Cloudy	Moderate	Mid-Flood	Middle	7	13:56	8.82 8.30	33.10		2.94	2.5	0.287 E	/
M2 M2	20230515 20230515		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	7		8.86 8.29 8.88 8.33	33.15 33.22	25.14 24.99	3.28 3.20	2.5	0.273 SE 0.303 E	/
M2	20230515	Cloudy	Moderate	Mid-Flood	Bottom	13	13:55	8.96 8.31	33.16	25.14	2.81	2.5	0.286 SE	/
M3 M3	20230515 20230515		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	13:21 13:21	8.62 8.36 8.66 8.35	32.88 32.80		3.27 3.51	2.5	0.272 E 0.275 SE	/
M3	20230515	Cloudy	Moderate	Mid-Flood	Middle	3.85	13:20	8.58 8.33	32.78	25.06	3.24	2.5	0.309 SE	/
M3 M3	20230515 20230515		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	3.85 6.7	13:20 13:19	8.71 8.34 8.60 8.29	32.86 32.80	25.07 25.03	3.10 3.17	2.5 2.5	0.283 SE 0.302 E	/
M3	20230515		Moderate	Mid-Flood	Bottom	6.7		8.66 8.37	32.84		3.55	2.5	0.291 E	/
M4	20230515		Moderate	Mid-Flood	Surface	1	14:41	8.65 8.24	32.65	24.98	2.23	2.5	0.287 E	/
M4 M4	20230515 20230515		Moderate Moderate	Mid-Flood Mid-Flood	Surface Bottom	4.2	14:41 14:40	8.69 8.20 8.68 8.24	32.78 32.75	25.02 25.01	2.39	2.5	0.281 SE 0.275 SE	/
M4	20230515	Cloudy	Moderate	Mid-Flood	Bottom	4.2	14:40	8.77 8.21	32.72		2.37	2.5	0.271 E	/
C1 C1	20230517 20230517		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	16:31 16:31	8.75 8.22 8.85 8.26	33.95 34.04	25.44 25.39	3.43 3.53	2.5 2.5	0.290 SE 0.288 SE	/
C1	20230517	Cloudy	Moderate	Mid-Flood	Middle	11.2	16:30	8.70 8.21	33.98	25.41	3.62	3	0.268 E	/
C1 C1	20230517 20230517		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	11.2 21.4	16:30 16:29	8.81 8.26 8.82 8.21	33.80 34.15	25.34 25.43	3.65 3.51	4	0.283 E 0.270 E	/
C1	20230517		Moderate	Mid-Flood	Bottom	21.4	16:29	8.73 8.28	34.09		3.86	2.5	0.272 SE	/
C2	20230517		Moderate	Mid-Flood	Surface	1	15:12	9.06 8.25	33.49		3.96	2.5	0.268 SE	/
C2 C2	20230517 20230517		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	11.05	15:12 15:11	9.19 8.28 9.12 8.20	33.69 33.83		3.89 3.94	3	0.308 E 0.270 SE	//
C2	20230517	Cloudy	Moderate	Mid-Flood	Middle	11.05	15:11	9.04 8.28	33.53	25.39	4.07	2.5	0.275 SE	/
C2 C2	20230517 20230517		Moderate Moderate	Mid-Flood Mid-Flood	Bottom	21.1 21.1	15:10 15:10	9.14 8.25 9.19 8.27	33.70 33.61	25.46 25.46	4.27 4.14	2.5	0.279 E 0.270 E	/
M1	20230517		Moderate	Mid-Flood	Surface	21.1	15:10	9.19 8.27 8.46 8.28	33.61		4.14 3.28	2.5	0.270 E 0.299 SE	/
M1	20230517		Moderate	Mid-Flood	Surface	1	15:49	8.53 8.35	33.99		3.39	3	0.297 E	/
M1 M1	20230517 20230517		Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	3.2		8.35 8.27 8.45 8.29	33.99 33.91		3.29 2.85	2.5	0.265 E 0.274 E	//
M1	20230517	Cloudy	Moderate	Mid-Flood	Bottom	5.4	15:47	8.53 8.27	34.27	25.53	3.28	2.5	0.293 SE	/
M1 M2	20230517 20230517		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	5.4	15:47 16:10	8.45 8.32 9.42 8.17	34.26 33.04		3.06 3.53	2.5 2.5	0.299 SE 0.300 E	1/
M2	20230517	Cloudy	Moderate	Mid-Flood	Surface	1	16:10	9.47 8.18	32.98	25.37	3.54	4	0.295 E	/
M2	20230517		Moderate	Mid-Flood	Middle	6.75	16:09	9.38 8.19	33.34	25.42 25.35	3.43	2.5	0.276 SE 0.310 SE	/
M2 M2	20230517 20230517		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	6.75 12.5	16:09 16:08	9.41 8.16 9.35 8.19	32.95 32.97	25.35 25.38	3.59 3.22	2.5	0.310 SE 0.285 SE	/_
M2	20230517	Cloudy	Moderate	Mid-Flood	Bottom	12.5	16:08	9.45 8.19	33.26	25.43	3.59	2.5	0.263 E	/
M3 M3	20230517 20230517		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	15:30 15:30	9.02 8.34 9.01 8.36	33.25 33.18	25.41 25.42	2.79 2.92	2.5 2.5	0.277 E 0.297 E	/
M3	20230517	Cloudy	Moderate	Mid-Flood	Middle	3.65	15:29	9.03 8.33	33.27	25.44	3.08	2.5	0.311 SE	/
M3 M3	20230517 20230517		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	3.65 6.3	15:29 15:28	9.18 8.39 9.09 8.32	33.25 33.02	25.40 25.48	2.76 2.71	2.5	0.296 SE 0.295 E	//
M3	20230517		Moderate	Mid-Flood	Bottom	6.3		9.17 8.36	33.02	25.45	3.19	2.5	0.299 SE	/
M4	20230517		Moderate	Mid-Flood	Surface	1	16:53	8.87 8.32	33.33		3.04	2.5	0.295 SE	/
M4 M4	20230517 20230517		Moderate Moderate	Mid-Flood Mid-Flood	Surface Bottom	3.6	16:53 16:52	8.76 8.33 8.79 8.32	33.39 33.48	25.47 25.42	3.09 3.20	2.5 2.5	0.284 SE 0.269 SE	/
M4	20230517	Cloudy	Moderate	Mid-Flood	Bottom	3.6	16:52	8.79 8.36	33.56	25.47	3.34	2.5	0.294 E	/
C1 C1	20230519 20230519		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	17:53 17:53	8.52 8.24 8.41 8.25	32.91 32.97	25.50 25.28	3.90 3.51	2.5	0.269 E 0.283 SE	/
C1	20230519		Moderate	Mid-Flood	Middle	9.75	17:52	8.49 8.22	32.88	25.35	3.94	2.5	0.288 SE	/
C1	20230519		Moderate	Mid-Flood	Middle	9.75	17:52	8.40 8.27	32.79		3.65	2.5	0.276 SE	/
C1 C1	20230519 20230519		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Bottom	18.5 18.5	17:51 17:51	8.45 8.25 8.39 8.30	32.85 32.79	25.31 25.50	4.01 3.69	2.5 2.5	0.265 SE 0.277 SE	//
C2	20230519		Moderate	Mid-Flood	Surface	1	16:59	9.17 8.35	32.87	25.32	4.37	2.5	0.292 SE	/
C2 C2	20230519 20230519		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	11.85	16:59 16:58	9.00 8.38 9.09 8.32	32.92 32.94		4.51 4.36	2.5	0.298 E 0.277 E	/
C2	20230519	Cloudy	Moderate	Mid-Flood	Middle	11.85	16:58	8.94 8.38	32.70	25.40	4.54	2.5	0.294 E	/
C2 C2	20230519 20230519		Moderate Moderate	Mid-Flood Mid-Flood	Bottom	22.7 22.7	16:57 16:57	9.01 8.33 9.13 8.35	32.70 32.98		5.12 4.83	2.5 2.5	0.274 E 0.268 SE	/
M1	20230519		Moderate	Mid-Flood	Surface	1	17:22	8.95 8.32	32.47	25.18	2.70	2.5	0.274 E	/
M1	20230519		Moderate	Mid-Flood	Surface	1	17:22	8.94 8.34	32.49		2.73	2.5	0.286 SE	/
M1 M1	20230519 20230519		Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	3.5 3.5	17:21 17:21	8.95 8.31 9.14 8.34	32.49 32.45	25.34 25.29	2.75 2.83	2.5	0.269 E 0.280 E	//
M1	20230519	Cloudy	Moderate	Mid-Flood	Bottom	6	17:20	9.10 8.29	32.66	25.31	2.66	2.5	0.308 E	/
M1 M2	20230519 20230519		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	6	17:20 17:35	8.91 8.31 8.35 8.22	32.68 32.56		2.51 3.28	2.5	0.300 SE 0.298 SE	-/-
M2	20230519		Moderate	Mid-Flood	Surface	1	17:35	8.40 8.26	32.73		3.72	2.5	0.288 SE	/
M2 M2	20230519 20230519	Claudo	Moderate	Mid-Flood Mid-Flood	Middle Middle	5.95 5.95	17:34 17:34	8.34 8.24 8.36 8.25	32.69 32.61	25.40	3.49 3.24	2.5	0.309 SE 0.310 SE	/
M2 M2	20230519	Cloudy	Moderate Moderate		Bottom	10.9	17:34	8.36 8.25 8.41 8.22	32.61	25.54 25.52	3.24	2.5	0.310 SE 0.310 E	1/_
M2	20230519	Cloudy	Moderate	Mid-Flood	Bottom	10.9	17:33	8.18 8.22	32.75	25.36	3.48	2.5	0.282 SE	/
M3 M3	20230519 20230519		Moderate Moderate			1		8.38 8.14 8.56 8.19	33.36 33.27		3.16 2.98		0.275 SE 0.298 SE	1/
M3	20230519	Cloudy	Moderate	Mid-Flood	Middle	3.7	17:10	8.31 8.14	33.16	25.45	2.92	2.5	0.284 E	/
M3 M3	20230519 20230519		Moderate Moderate		Middle Bottom	3.7 6.4		8.41 8.14 8.44 8.28	33.41 33.20		3.09		0.309 E 0.296 SE	1/
M3	20230519	Cloudy	Moderate	Mid-Flood	Bottom	6.4	17:09	8.48 8.15	33.38	25.53	2.95	2.5	0.280 SE	/
M4 M4	20230519 20230519		Moderate Moderate		Surface Surface	1		8.71 8.24 8.52 8.28	33.48 33.35		3.75 3.50		0.293 SE 0.265 SE	/
M4	20230519		Moderate			4.1		8.52 8.28 8.74 8.26	33.43	25.44	3.62	2.5	0.265 SE 0.267 SE	/
M4	20230519		Moderate	Mid-Flood	Bottom	4.1	18:11	8.71 8.32	33.56	25.30	3.92	3	0.308 SE	/
C1 C1	20230522 20230522		Moderate Moderate		Surface Surface	1		9.36 8.15 9.27 8.17	33.13 33.10		2.69 2.72		0.287 SE 0.296 E	1/
C1	20230522	Cloudy	Moderate	Mid-Flood	Middle	10.45	9:28	9.42 8.17	33.09	25.88	2.73	2.5	0.298 E	/
C1 C1	20230522 20230522		Moderate Moderate	Mid-Flood Mid-Flood		10.45 19.9		9.28 8.18 9.28 8.14	33.05 33.26		2.65 2.89		0.282 SE 0.307 SE	1/
C1	20230522	Cloudy	Moderate	Mid-Flood	Bottom	19.9	9:27	9.30 8.17	33.17	25.85	2.83	2.5	0.280 E	/
C2	20230522		Moderate	Mid-Flood		1		8.53 8.26 9.76 9.26	33.03 33.14		2.81		0.277 SE 0.279 SE	/
C2 C2	20230522 20230522		Moderate Moderate		Surface Middle	12.9		8.76 8.26 8.66 8.26	33.14 33.11		2.80 3.11		0.279 SE 0.307 E	//
C2	20230522	Cloudy	Moderate	Mid-Flood	Middle	12.9	8:17	8.76 8.29	33.16	25.71	2.96	2.5	0.281 SE	/
C2 C2	20230522 20230522		Moderate Moderate		Bottom Bottom	24.8 24.8		8.59 8.22 8.67 8.25	32.96 33.11		3.09		0.284 SE 0.300 E	1/
M1	20230522	Cloudy	Moderate	Mid-Flood	Surface	1	8:49	8.93 8.28	32.64	25.60	2.32	2.5	0.291 SE	/
M1 M1	20230522 20230522		Moderate Moderate			3.4		8.83 8.29 8.92 8.26	32.81 32.81		2.59 2.46		0.269 SE 0.308 SE	/
M1 M1	20230522		Moderate		Middle	3.4		8.92 8.26 8.84 8.27	32.81	25.59	2.46		0.308 SE 0.302 SE	1/_
M1	20230522	Cloudy	Moderate	Mid-Flood	Bottom	5.8	8:47	8.87 8.21	32.72	25.55	2.65	4	0.274 E	/
M1 M2	20230522 20230522		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	5.8		8.99 8.26 9.32 8.15	32.77 32.83		2.44		0.286 SE 0.291 SE	1/
M2	20230522	Cloudy	Moderate	Mid-Flood	Surface	1	9:07	9.38 8.16	32.79	25.79	1.98	4	0.273 SE	/
M2 M2	20230522 20230522		Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	6.15 6.15		9.43 8.15 9.30 8.18	32.71 32.85		2.12 2.01		0.302 E 0.289 SE	/
M2 M2	20230522		Moderate	Mid-Flood Mid-Flood	Bottom	11.3		9.30 8.18 9.21 8.14	32.85 32.76		2.01		0.289 SE 0.290 SE	/
M2	20230522		Moderate	Mid-Flood	Bottom	11.3		9.23 8.17	32.77		2.18		0.273 SE	/
M3 M3	20230522 20230522		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1		8.45 8.19 8.64 8.19	32.36 32.60		2.46 2.44		0.291 E 0.277 SE	//
M3	20230522		Moderate	Mid-Flood		4		8.52 8.18	32.55		2.40			/

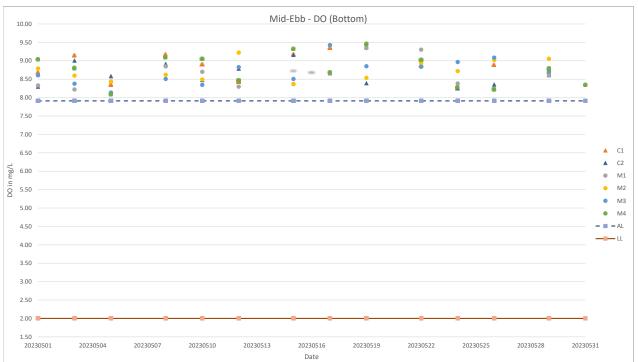
Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pН	Sal (ppt)		Turbidty (NTU)		Current Velocity (m/s)	Current Direction	Remark
M3		Cloudy	Moderate	Mid-Flood	Middle	4	8:35	8.63	8.19			2.56	2.5	0.276		/
M3	20230522		Moderate	Mid-Flood	Bottom	7	0.0	8.48				2.62	2.5	0.269		/
M3	20230522		Moderate	Mid-Flood	Bottom	7	0.0	8.65	8.18			2.67	2.5	0.279		/
M4	20230522	Cloudy	Moderate	Mid-Flood	Surface	1	0.00	8.31	8.26	33.15		2.29		0.271		/
M4	20230522	Cloudy	Moderate	Mid-Flood	Surface	1		8.38	8.30			2.16	2.5	0.294		/
M4	20230522	Cloudy	Moderate	Mid-Flood	Bottom	4.2		8.38	8.26	33.19	25.60	2.41	2.5	0.273	SE	/
M4	20230522	Cloudy	Moderate	Mid-Flood	Bottom	4.2	9:54	8.35	8.27	33.24	25.57	2.23	2.5	0.28	E	/
C1	20230524	Cloudy	Moderate	Mid-Flood	Surface	1		8.4	8.29			3.33	2.5	0.27		/
C1	20230524	Cloudy	Moderate	Mid-Flood	Surface	1	9:22	8.38	8.31			3.57	2.5	0.266		/
C1	20230524	Cloudy	Moderate	Mid-Flood	Middle	10.4	9:21	8.33	8.3	33.34	25.98	3.62	2.5	0.307	SE	/
C1	20230524	Cloudy	Moderate	Mid-Flood	Middle	10.4	9:21	8.46	8.34	33.32	26.03	3.63	2.5	0.301	E	/
C1	20230524	Cloudy	Moderate	Mid-Flood	Bottom	19.8	9:20	8.34	8.28	33.27	26.02	3.49		0.306	E	/
C1	20230524	Cloudy	Moderate	Mid-Flood	Bottom	19.8	9:20	8.46	8.33	33.03	25.95	3.52	2.5	0.311		/
C2	20230524	Cloudy	Moderate	Mid-Flood	Surface	1	8:02	9.21	8.22	32.12	26.02	4.09	2.5	0.28	E	/
C2	20230524	Cloudy	Moderate	Mid-Flood	Surface	1	8:02	9.15	8.19	32.29	26.01	4.16	2.5	0.288		/
C2	20230524	Cloudy	Moderate	Mid-Flood	Middle	12.05	8:01	9.17	8.2	32.40	26.06	4.27	2.5	0.275	SE	/
C2	20230524	Cloudy	Moderate	Mid-Flood	Middle	12.05	8:01	9.14	8.21	32.31	26.06	3.98	2.5	0.302	E	/
C2	20230524	Cloudy	Moderate	Mid-Flood	Bottom	23.1	8:00	9.23	8.22	32.17	26.04	4.25	2.5	0.269	E	/
C2	20230524	Cloudy	Moderate	Mid-Flood	Bottom	23.1	8:00	9.05	8.25	32.36	25.93	4.32	2.5	0.3	E	/
M1	20230524	Cloudy	Moderate	Mid-Flood	Surface	1	8:36	8.84	8.2	33.02	26.21	3.2	3	0.276	E	/
M1	20230524	Cloudy	Moderate	Mid-Flood	Surface	1	8:36	9.02	8.2	33.18	26.10	3.52	2.5	0.288	E	/
M1	20230524	Cloudy	Moderate	Mid-Flood	Middle	3.65	8:35	9.04	8.21	33.21	26.24	3.31	2.5	0.298	SE	/
M1	20230524	Cloudy	Moderate	Mid-Flood	Middle	3.65	8:35	8.87	8.23	32.99	26.10	3.37	3	0.264	E	/
M1	20230524	Cloudy	Moderate	Mid-Flood	Bottom	6.3	8:34	8.9	8.21	33.09	26.25	3.26	4	0.308	SE	/
M1	20230524	Cloudy	Moderate	Mid-Flood	Bottom	6.3	8:34	9.04	8.26	33.00	26.10	3.15	2.5	0.309	SE	/
M2	20230524	Cloudy	Moderate	Mid-Flood	Surface	1	8:54	8.27	8.32	32.12	25.89	3.55	2.5	0.264	SE	/
M2	20230524	Cloudy	Moderate	Mid-Flood	Surface	1	8:54	8.23	8.34	31.78	25.91	3.47	2.5	0.263	SE	/
M2	20230524	Cloudy	Moderate	Mid-Flood	Middle	6.45	8:53	8.47	8.34	31.97	25.99	3.36	2.5	0.275	SE	/
M2	20230524	Cloudy	Moderate	Mid-Flood	Middle	6.45	8:53	8.33	8.41	31.81	26.04	3.44	2.5	0.288	SE	/
M2	20230524	Cloudy	Moderate	Mid-Flood	Bottom	11.9	8:52	8.42	8.38	31.92	26.00	3.62	2.5	0.266	SE	/
M2	20230524	Cloudy	Moderate	Mid-Flood	Bottom	11.9	8:52	8.39	8.41	31.96	25.98	3.63	2.5	0.273	SE	/
M3	20230524	Cloudy	Moderate	Mid-Flood	Surface	1	8:19	8.6	8.28	32.38	26.20	3.1	2.5	0.279	E	/
M3	20230524	Cloudy	Moderate	Mid-Flood	Surface	1	8:19	8.49	8.3	32.39	26.26	2.97	2.5	0.273	E	/
M3	20230524	Cloudy	Moderate	Mid-Flood	Middle	3.2	8:18	8.62	8.31	32.68	26.18	3.13	2.5	0.309	E	/
M3	20230524	Cloudy	Moderate	Mid-Flood	Middle	3.2	8:18	8.64	8.33	32.47	26.20	2.73	2.5	0.297	SE	/
M3	20230524	Cloudy	Moderate	Mid-Flood	Bottom	5.4	8:17	8.54	8.25	32.41	26.25	2.76	3	0.303	SE	/
M3	20230524	Cloudy	Moderate	Mid-Flood	Bottom	5.4	8:17	8.72	8.3	32.46	26.28	2.92	2.5	0.3	E	/
M4	20230524	Cloudy	Moderate	Mid-Flood	Surface	1	9:41	8.17	8.35	32.56	25.93	2.99	2.5	0.298	E	/
M4	20230524	Cloudy	Moderate	Mid-Flood	Surface	1	9:41	8.2	8.4	32.41	25.94	3.19	2.5	0.271	SE	/
M4	20230524	Cloudy	Moderate	Mid-Flood	Bottom	3.9	9:40	8.42	8.35	32.34	25.95	3.26	2.5	0.291	E	/
M4	20230524		Moderate	Mid-Flood	Bottom	3.9	9:40	8.35	8.38		26.01	3.34	2.5	0.271	SF	/

					T					T				
Location C1	Date 20230526	Weather	Sea Condition Moderate	Tidal Mid-Flood	Water Level Surface	Depth (m)	Time 9:16	DO (mg/L) pH 8.42 8	Sal (ppt) .28 32.64	Temp (?) 4 27.86	Turbidty (NTU) 3.47	SS 2.5	Current Velocity (m/s) Current Direction 0.27 E	Remark
C1	20230526		Moderate	Mid-Flood Mid-Flood	Surface	1			8.3 32.5		3.47		0.27 E 0.266 SE	-/-
C1	20230526	Sunny	Moderate	Mid-Flood	Middle	9.65	9:15	8.59 8	.27 32.43	3 27.86	3.45	2.5	0.302 E	/
C1 C1	20230526 20230526		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	9.65 18.3			8.3 32.45 .28 32.51		3.51 3.53		0.302 SE 0.272 SE	_/
C1	20230526		Moderate	Mid-Flood	Bottom	18.3			8.3 32.68				0.272 SE 0.274 E	/
C2	20230526	Sunny	Moderate	Mid-Flood	Surface	1	0.0.		8.3 31.99				0.306 E	/
C2 C2	20230526 20230526		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	11.55	8:07		.31 31.88		3.89 4.14		0.295 E 0.272 SE	/
C2	20230526		Moderate	Mid-Flood	Middle	11.55			8.3 31.79				0.272 SE 0.294 SE	/
C2	20230526		Moderate	Mid-Flood	Bottom	22.1			.28 31.85				0.309 E	/
C2 M1	20230526 20230526		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	22.1			.31 32.03				0.27 E 0.275 SE	/
M1	20230526		Moderate	Mid-Flood	Surface	1			.25 32.75				0.306 E	/
M1	20230526		Moderate	Mid-Flood	Middle	3.45			.19 32.90				0.276 SE	/
M1 M1	20230526 20230526		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	3.45 5.9			.27 32.93		2.53 2.29		0.28 E 0.273 SE	-/,
M1	20230526		Moderate	Mid-Flood	Bottom	5.9			.26 32.79				0.309 SE	/
M2	20230526		Moderate	Mid-Flood	Surface	1			.33 32.08				0.266 SE	/
M2 M2	20230526 20230526		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	6.85			.36 31.99				0.302 E 0.264 SE	-/,
M2	20230526		Moderate	Mid-Flood	Middle	6.85			.35 31.98		3.4		0.287 SE	/
M2	20230526		Moderate	Mid-Flood	Bottom	12.7			.31 31.93		3.17		0.287 E	/
M2 M3	20230526 20230526		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	12.7			.34 31.89				0.302 SE 0.306 E	-/,
M3	20230526		Moderate	Mid-Flood	Surface	1			.32 32.77				0.295 SE	/
M3	20230526		Moderate	Mid-Flood	Middle	3.5			.29 32.74				0.288 SE	/
M3 M3	20230526 20230526		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	3.5			.32 32.73				0.307 E 0.289 SE	/
M3	20230526	Sunny	Moderate	Mid-Flood	Bottom	6	8:21	8.67 8	.32 32.57	7 27.99	3.11	2.5	0.305 SE	/
M4	20230526		Moderate	Mid-Flood	Surface	1			.18 31.63				0.279 E	/
M4 M4	20230526 20230526		Moderate Moderate	Mid-Flood Mid-Flood	Surface Bottom	3.7			.21 31.72		2.92		0.291 SE 0.3 E	/
M4	20230526	Sunny	Moderate	Mid-Flood	Bottom	3.7	9:38	8.95 8	.19 31.75	5 27.86	2.52	2.5	0.266 SE	/
C1	20230529		Moderate	Mid-Flood	Surface	1			8.2 32.35				0.292 E	/
C1 C1	20230529 20230529		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	9.45			.23 32.23				0.3 E 0.3 E	/
C1	20230529	Sunny	Moderate	Mid-Flood	Middle	9.45	12:33	9.3	8.2 32.42	2 28.09	2.92	2.5	0.266 SE	/
C1	20230529		Moderate	Mid-Flood	Bottom	17.9			.17 32.30		2.86		0.296 E 0.282 SF	/
C1 C2	20230529 20230529		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	17.9			8.2 32.42 8.2 33.30				0.282 SE 0.263 SE	-/-
C2	20230529	Sunny	Moderate	Mid-Flood	Surface	1	11:23	8.55 8	.17 33.12	2 28.02	3.48	2.5	0.274 SE	/
C2	20230529		Moderate	Mid-Flood	Middle	11.25			.18 33.07				0.289 SE	/
C2 C2	20230529 20230529		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	11.25 21.5	11:22		.18 33.25		3.57 3.86		0.286 SE 0.291 SE	/
C2	20230529		Moderate	Mid-Flood	Bottom	21.5			8.2 33.33		3.63		0.277 SE	/
M1	20230529		Moderate	Mid-Flood	Surface	1			.16 33.45		2.93		0.287 E	/
M1 M1	20230529 20230529		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	3.4			.17 33.36		3.26 3.27		0.294 SE 0.29 SE	-/,
M1	20230529		Moderate	Mid-Flood	Middle	3.4			.14 33.58				0.288 SE	/
M1	20230529		Moderate	Mid-Flood	Bottom	5.8			8.2 33.36				0.291 SE	/
M1 M2	20230529 20230529		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	5.8			.15 33.52 8.2 32.70		3.21 2.89		0.304 SE 0.273 SE	/
M2	20230529		Moderate	Mid-Flood	Surface	1			.21 32.65				0.272 E	/
M2	20230529		Moderate	Mid-Flood	Middle	6.3			.21 32.64				0.29 SE	/
M2 M2	20230529 20230529		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	6.3 11.6			.22 32.69				0.299 E 0.277 SE	/
M2	20230529	Sunny	Moderate	Mid-Flood	Bottom	11.6	12:15	8.79 8	.24 32.59	9 27.86	3.18	2.5	0.285 SE	/
M3	20230529		Moderate	Mid-Flood	Surface	1			8.3 32.98				0.31 SE	/
M3 M3	20230529 20230529		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	3.95	11:42		.37 32.90 8.3 32.74		2.94 3.1		0.282 E 0.298 SE	-/-
M3	20230529	Sunny	Moderate	Mid-Flood	Middle	3.95	11:41	9.01 8	.31 32.88	8 27.91	2.69	2.5	0.275 E	/
M3	20230529		Moderate	Mid-Flood	Bottom	6.9			8.3 32.67		2.94		0.29 E	/
M3 M4	20230529 20230529		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	6.9			.33 32.80				0.293 E 0.271 SE	-/-
M4	20230529	Sunny	Moderate	Mid-Flood	Surface	1	12:59	8.66 8	.28 32.84	4 28.15	2.14	2.5	0.29 E	/
M4	20230529		Moderate	Mid-Flood	Bottom	3.6			.31 33.09				0.27 SE	/
M4 C1	20230529 20230531		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	3.6			.32 32.85		2.13 2.78		0.266 E 0.307 SE	/
C1	20230531	Sunny	Moderate	Mid-Flood	Surface	1	15:22	8.89 8	.36 33.40	0 28.68	3.03	2.5	0.305 SE	/
C1	20230531 20230531		Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	11.5 11.5			.30 33.40				0.288 E 0.285 SE	/
C1 C1	20230531		Moderate Moderate			11.5			.31 33.35					//
C1	20230531	Sunny	Moderate	Mid-Flood	Bottom	22	15:20	8.87 8	.33 33.43	1 28.74	2.70	2.5	0.284 SE	/
C2 C2	20230531 20230531		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1			.32 33.67		3.22 3.13			/
C2 C2	20230531		Moderate	Mid-Flood Mid-Flood	Middle	12.25			.30 33.88					//
C2	20230531	Sunny	Moderate	Mid-Flood	Middle	12.25	14:11	8.69 8	.31 33.73	1 28.85	3.34	3	0.304 SE	/
C2 C2	20230531 20230531		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Bottom	23.5 23.5			.30 33.84					/
M1	20230531		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	23.5			.31 33.88					//
M1	20230531	Sunny	Moderate	Mid-Flood	Surface	1	14:49	8.64 8	.36 33.77	7 28.90	1.85	2.5	0.278 SE	/
M1 M1	20230531 20230531		Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	3.2 3.2			.32 33.73				0.274 SE 0.294 SE	/
M1 M1	20230531		Moderate	Mid-Flood Mid-Flood	Bottom	5.4			.32 33.55		2.02		0.294 SE 0.311 SE	//
M1	20230531	Sunny	Moderate	Mid-Flood	Bottom	5.4	14:47	8.62 8	.36 33.64	4 28.91	2.09	2.5	0.301 SE	/
M2	20230531		Moderate	Mid-Flood	Surface	1			.25 32.63					/
M2 M2	20230531 20230531		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	6.45			.31 32.70				0.308 SE 0.296 SE	//
M2	20230531	Sunny	Moderate	Mid-Flood	Middle	6.45	15:04	8.75 8	.32 32.70	0 28.92	2.58	3	0.274 E	/
M2	20230531		Moderate	Mid-Flood Mid-Flood	Bottom	11.9			.30 32.66					/
M2 M3	20230531 20230531		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	11.9			.31 32.76				0.302 SE 0.273 SE	//
M3	20230531	Sunny	Moderate	Mid-Flood	Surface	1	14:31	8.71 8	.16 33.69	9 28.68	2.05	2.5	0.294 SE	/
M3	20230531		Moderate	Mid-Flood	Middle	4.05			.18 33.75					/
M3 M3	20230531 20230531		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	4.05 7.1			.19 33.59					/
M3	20230531	Sunny	Moderate	Mid-Flood	Bottom	7.1	14:29	8.79 8	.22 33.82	2 28.71	2.21	2.5	0.266 SE	/
M4	20230531		Moderate	Mid-Flood	Surface Surface	1			.20 33.7				0.265 SE	/
						1				7 28.98	2.76	2.5	0.282 SE	
M4 M4	20230531 20230531		Moderate Moderate	Mid-Flood Mid-Flood	Bottom	3.6			.18 33.58					-/-













Appendix J Complaint Log





Statistical Summary of Environmental Complaints

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

Statistical Summary of Environmental Summons

Reporting Period	Environmental Summons Statistics						
Period	Frequency	Cumulative	Details				
May 2023	0	0	N/A				

Statistical Summary of Environmental Prosecution

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