ANEWR

Civil Engineering and Development Department
4/F, Civil Engineering and Development Building
Port Works Division
101 Princess Margaret Road
Ho Man Tin
Kowloon

Your reference:

Our reference: HKCEDD15/50/109552

Date: 11 March 2024

Attention: Mr Daniel K Y Leung

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

Dear Sirs

Agreement No.: PI 3/2020
Independent Environmental Checker for Lei Yue Mun Waterfront Enhancement Project
Verification of Monthly Environmental Monitoring and Audit Report (February 2024)

We refer to email of 8 March 2024 from Acuity Sustainability Consulting Limited attaching a Monthly Environmental Monitoring and Audit Report (February 2024).

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

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

Yours faithfully
ANEWR CONSULTING LIMITED

James Choi
Independent Environmental Checker

CPSJ/LCCR/lsmt

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

ANewR Consulting Limited
Unit 1813, 1815-16, 18/F, Tower A, Regent Centre
63 Wo Yi Hop Road, Kwai Chung, Hong Kong
Tel: (852) 2618 2831 Fax: (852) 3007 8648
Email: info@anewr.com
Web: www.anewr.com

ISO 9001 : 2015
Certificate No.: CC 3988

ACUITY sustainability
Member of the Aurecon Group

aurecon

CEDD 土木工程拓展署
Civil Engineering and Development Department

Contract No. PI 2/2020

Environmental Monitoring Works for Lei Yue Mun Waterfront Enhancement Project

Monthly EM&A Report (February 2024)

Document No.

ASCL	/	200168151	/	EMA022024	/	0
Publisher		Project Code		Sequential No.		Revision Index

	Prepared by:	Checked by:	Certified by:
Name	Jack Chow	Tandy Tse	Kevin LI
Position	Environmental Team Member	Environmental Team Member	Environmental Team Leader
Signature			
Date:	05 March 2024	08 March 2024	08 March 2024

Acuity Sustainability Consulting Limited
Flat/RM E, 12/F, Ford Glory Plaza,
Nos. 37-39 Wing Hong Street, Kowloon, Hong Kong
tel +852 2698 6833
fax+852 2698 9383 | e-mail admin@acuityhk.com
httpwww.acuityhk.com | www.aurecongroup.com

REVISION HISTORY

REV.	DESCRIPTION OF MODIFICATION	DATE
0	First Issue for Comments	08 March 2024

CONTENTS

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.

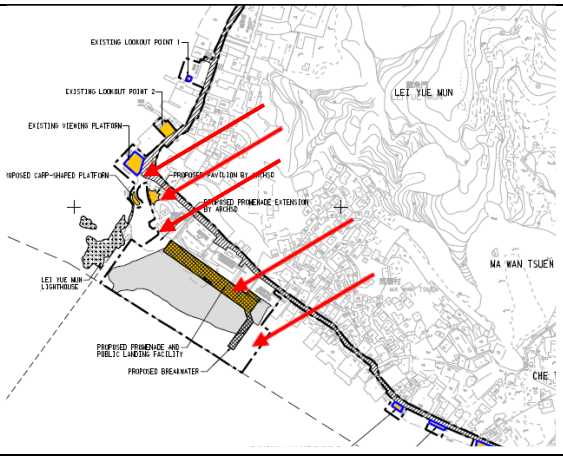
A2. The Civil Engineering and Development Department (CEDD) commissioned Acuity Sustainability Consulting Limited (ASCL) to undertake the role of Environmental Team (ET) for carrying out the Environmental Monitoring & Audit (EM&A) works during the construction phase of the Project in accordance with 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 34th Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 February to 29 February 2024.

SUMMARY OF MAIN WORKS UNDERTAKEN & KEY MITIGATION MEASURES IMPLEMENTED

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

Works Description	Location
Contract No. CV/2020/09 • Installation of fender system at landing Contract No. TC J517 • Excavation work at open space	

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 m^3 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 quality monitoring exceedance was recorded in the reporting period.

A10. Weekly site inspections of the construction work by ET were carried out on 01, 07&08, 15, 22 and 29 February 2024 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 excavation	Landing Facility
Contract No. TC J517	
Excavation work	Phase 3A
Drainage installation	Phase 3A
Cable duct installation	Phase 3A

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 m^3 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. SS J521** commenced on 1 November 2022 and will expire on 31 October 2023. Shui On Building Contractors Limited to carry out the development of a waterfront promenade and related improvement works under **Works Order No. ASD 012730** of **Contract No. TCJ517** for the Lei Yue Mun Waterfront Enhancement Project (the Project), the Works under Works Order No. ASD 012730 were substantially completed on 29 September 2023. The maintenance period under **Contract no. TCJ517** on 30 November 2023 and will expire on 30 September 2024.

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 34th Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 February to 29 February 2024.

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**.

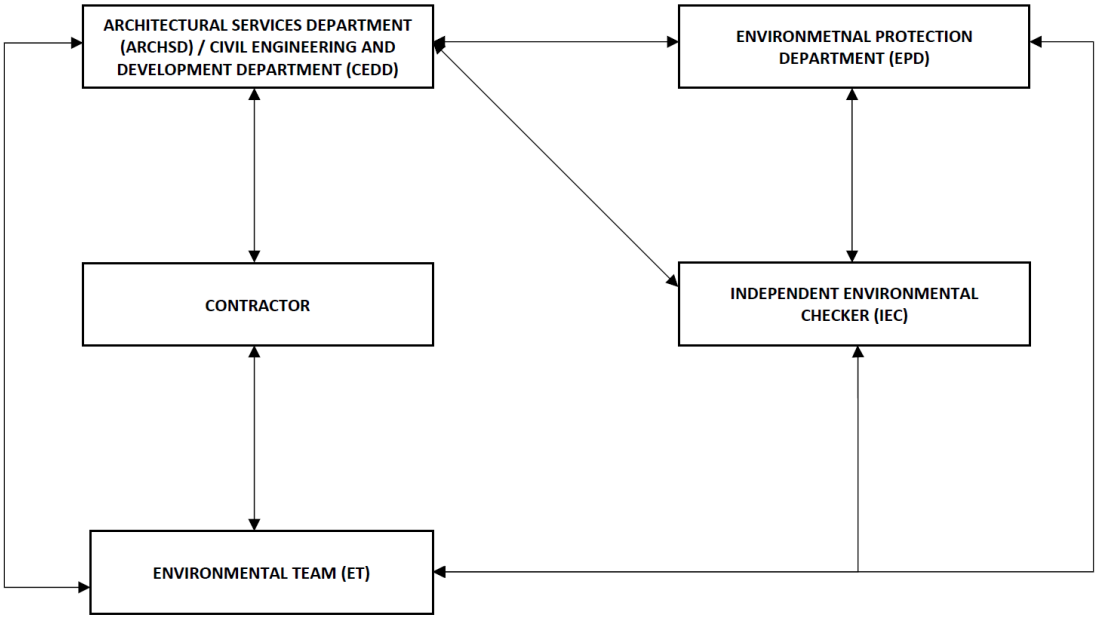


Figure 1.1 Project Organization Chart

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	Ms. Diamond Chan	2867 3234
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	
Installation of fender system at landing	Landing Facility
[redacted]	
Contract No. TC J517	
Excavation work at open space	Phase 3A

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 the Air Pollution Control (Construction Dust) Regulation (Form NA)	Ref. No.: 463353	Throughout the Contract
Chemical Waste Producer Registration	5213-298-C3752-02	Throughout the Contract
Billing Account for Disposal of Construction Waste	7039364	Throughout the Contract
Discharge Licence under Water Pollution Control Ordinance	WT00040594-2022	Valid to 30 Jun 2027
Contract No. TC J517		
Environmental Permit	EP-564/2018	Throughout the Contract
Notification of Construction Works under the Air Pollution Control (Construction Dust) Regulation (Form NA)	Ref. No.: 467619	Throughout the Contract
Chemical Waste Producer Registration	5312-298-M2939-02	Throughout the Contract
Billing Account for Disposal of Construction Waste	7039353	Throughout the Contract
Discharge Licence under Water Pollution Control Ordinance	WT00039075-2021	Valid to 30 Sep 2026

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

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

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

Other than the EM&A work by ET, environmental briefings, trainings and regular environmental management meetings were conducted, in order to enhance environmental awareness and closely monitor the environmental performance of the contractors.

The EM&A programme has been implemented in accordance with the recommendations presented in the approved EIA Report and the EM&A Manual. A summary of implementation status of the environmental mitigation measures for the construction phase of the Project during the reporting period is provided in **Appendix B**.

2. NOISE

2.1. MONITORING REQUIREMENTS

To ensure no adverse noise impact, noise monitoring is recommended to be carried out within 300m radius from the nearby noise sensitive receivers (NSRs), during construction phase. The NSRs selected as monitoring station are (i) NM1 – Village house in Lei Yue Mun Hoi Pong Road Central, (ii) NM2-A – No.79B, Lei Yue Mun Hoi Pong Road East, (iii) NM3 – Jockey Club Lei Yue Mun Plus and (iv) NM4 – No. 21C, Lei Yue Mun Hoi Pong Road East respectively.

In accordance with the EM&A Manual, baseline noise level at the noise monitoring stations were established as presented in the Baseline Monitoring Report. Impact noise monitoring was conducted once per week in the form of 30-minutes measurements Leq, L10 and L90 levels recorded at each monitoring station between 0700 and 1900 on normal weekdays.

Noise monitoring were carried out at the monitoring locations sited at LYM in the reporting month. The results are presented in **Appendix F.**

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

Table 2.1 Noise Monitoring Parameters, Time, Frequency and Duration

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

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.

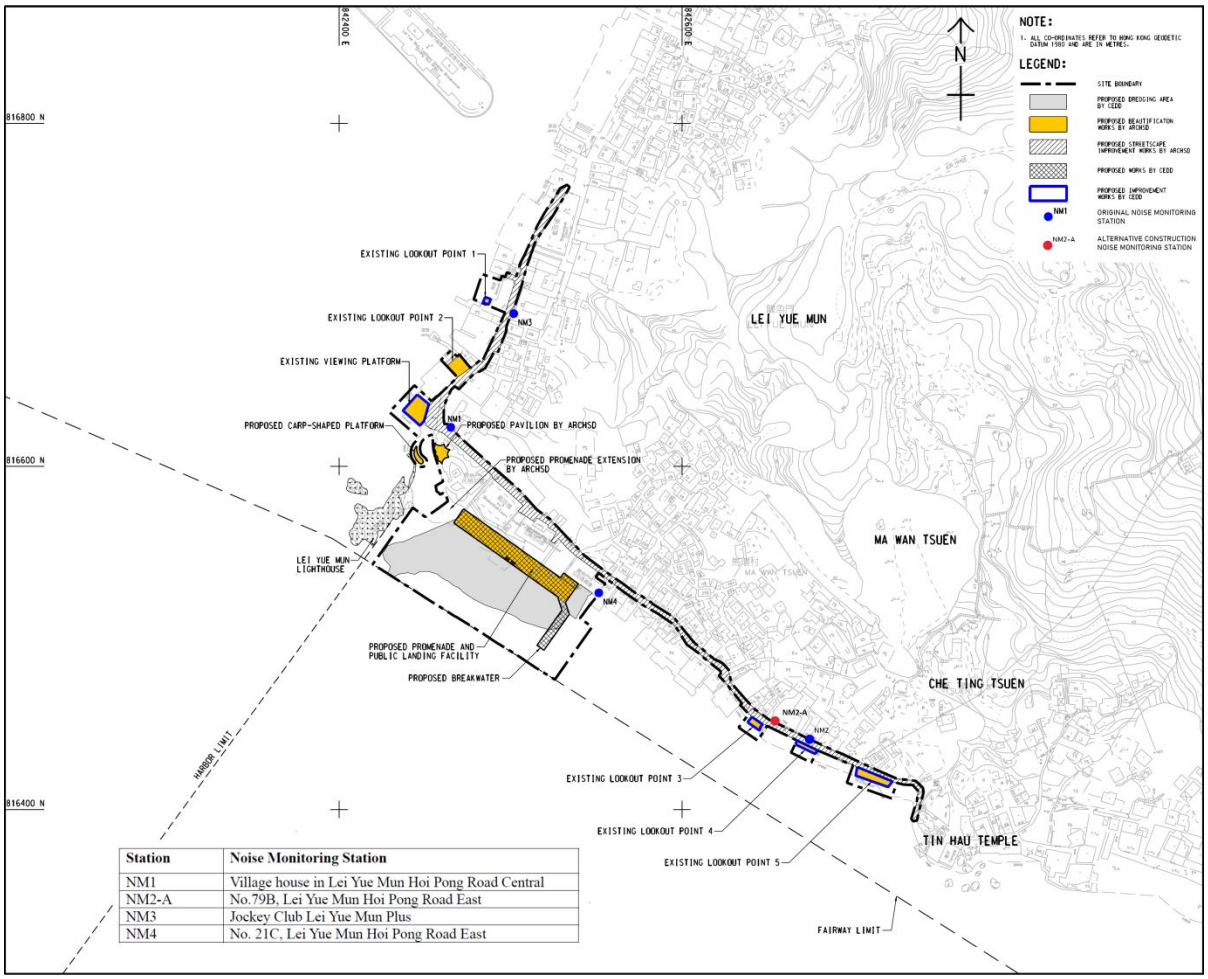
The Proposal for Alternative Noise Monitoring Station NM2-A has been approved by EPD on 16 April 2021.

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**.



Station	Noise Monitoring Station
NM1	Village house in Lei Yue Mun Hoi Pong Road Central
NM2-A	No.79B, Lei Yue Mun Hoi Pong Road East
NM3	Jockey Club Lei Yue Mun Plus
NM4	No. 21C, Lei Yue Mun Hoi Pong Road East

Figure 2.1 Noise Monitoring Locations

2.3. Impact Monitoring Methodology

Integrated sound level meter shall be used for the noise monitoring. The meter shall be in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration levels before and after the noise measurements agree to within 1.0 dB(A). Calibration certificates of the instruments used are shown at **Appendix E**.

Noise measurements shall not be made in the presence of fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

Table 2.4 Impact Noise Monitoring Equipment

Equipment	Make and Model
Sound Level Meter	Scarlet Tech ST11D (Serial No.: 820242)
Sound Level Meter	SVANTEK SVAN 971 (Serial No.: 103482)
Sound Level Meter	RION NL-31 (Serial No.: 00303811)
Sound Calibrator	RION NC-75 (Serial No.: 34724243)
Sound Calibrator	RION NC-75 (Serial No.: 34724245)
Sound Calibrator	RION NC-74 (Serial No.: 34615222)

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

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

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

2.5. Monitoring Results and Observations

Referring to EM&A manual Section 4.6.1.1 construction noise monitoring should be carried out when there are project-related construction activities undertaken within a radius of 300m from the monitoring stations. 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)
	$L_{eq\ 30min}$ Daytime (7:00-19:00 on normal weekdays)
NM1	50.1 - 62.6
NM2-A	55.1 - 58.2
NM3	56.4 - 59.2
NM4	51.5 - 60.0

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	^{o}C	-
pH	-	-
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.

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

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

3.4. Sampling / Testing Protocols

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

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

3.5. Laboratory Measurement and Analysis

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

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

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)

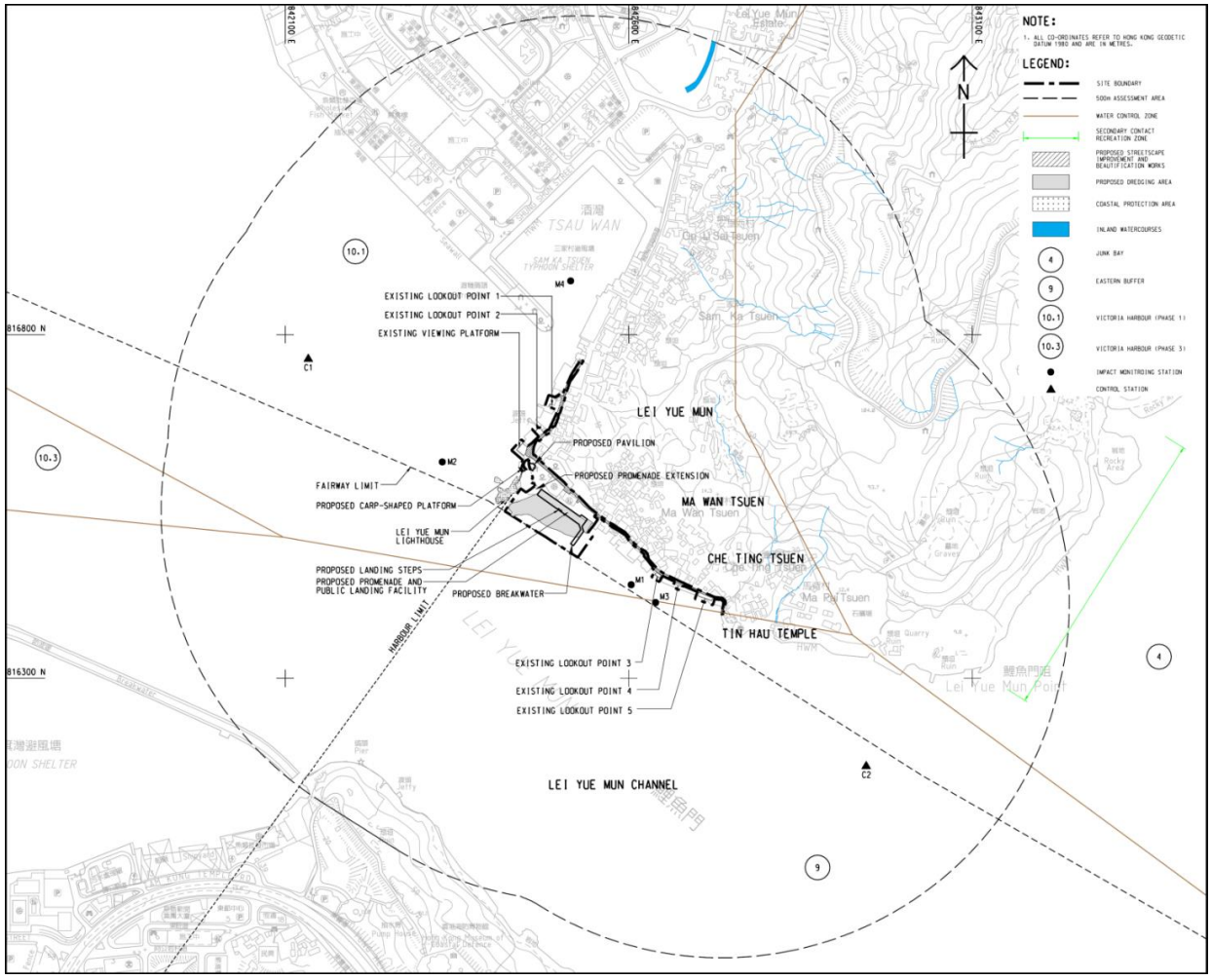


Figure 3.1 Water quality monitoring locations under EM&A Manual

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 (Depth-averaged)	6.73 mg L^{-1} or 120% of control station's SS at the same tide of the same day	17.60 mg L^{-1} or 130% of control station's SS at the same tide of the same day and specific sensitive receiver water quality requirements (e.g. required SS level for concerned seawater intakes)
Turbidity in NTU (Depth-averaged)	7.42 NTU or 120% of control station's SS at the same tide of the same day compared with corresponding data from control station	7.79 NTU or 130% of control station's SS at the same tide of the same day compared with corresponding data from control station

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

Location		Parameters							
		Dissolved Oxygen (mg/L)				Turbidity (NTU)		Suspended Solids (mg/L)	
		S&M[i]		B[i]					
		Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb
C1	Avg.	8.42	8.24	8.40	8.25	3.04	3.47	3	4
	Min.	8.01	7.61	8.01	7.65	2.77	2.84	3	3
	Max.	8.90	8.73	8.84	8.71	3.51	4.27	7	9
C2	Avg.	8.41	8.45	8.40	8.42	3.57	3.02	4	3
	Min.	7.67	7.80	7.65	7.69	3.09	2.38	3	3
	Max.	8.76	8.87	8.75	8.82	4.02	3.53	11	5
M1	Avg.	8.19	8.23	8.19	8.23	2.73	2.68	4	3
	Min.	7.49	7.69	7.51	7.72	2.00	1.84	3	3
	Max.	8.79	9.19	8.85	9.15	3.40	3.69	9	4
M2	Avg.	8.33	8.38	8.32	8.38	2.65	2.54	4	3
	Min.	7.75	7.73	7.70	7.71	1.84	1.77	3	3
	Max.	9.20	8.91	9.16	8.89	3.26	3.06	7	5
M3	Avg.	8.45	8.41	8.45	8.41	2.79	2.62	4	3
	Min.	7.65	7.87	7.62	7.88	2.06	1.71	3	3
	Max.	9.12	9.24	9.15	9.25	3.35	3.27	7	5
M4	Avg.	8.17	8.42	8.19	8.43	2.61	2.79	4	3
	Min.	7.53	7.59	7.51	7.61	1.75	2.06	3	3
	Max.	8.84	9.00	8.86	9.05	3.58	3.87	9	6

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

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

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	If during Post-translocation Monitoring 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 original corals at the receptor site, then the Action Level is exceeded.	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		
	ET Leader	IEC	Main Contractor
Action Level Exceedance	1. Check monitoring data; 2. Identify the source(s) of impact; 3. Inform the IEC and main contractor of the findings; 4. Increase the monitoring to at least once a month to confirm findings; 5. Liaise with AFCD to investigate any mitigation measures needed; and 6. Propose mitigation measures for consideration.	1. Discuss monitoring with the ET; 2. Review proposals for additional monitoring and any other measures and advise the main contractor accordingly.	1. Discuss with the IEC additional monitoring requirements and any other measures proposed by the ET; 2. Make the agreement on the measures to be implemented.
Limit Level Exceedance	1. Undertake Steps 1-5 as in the Action Level Exceedance. If further exceedance of Limit Level, propose enhancement measures for consideration.	1. Discuss monitoring with the ET; 2. Review proposals for additional monitoring and any other measures and advise the main contractor accordingly.	1. Discuss with the IEC additional monitoring requirements and any other measures proposed by the ET; 2. Make the agreement on the measures to be implemented.

4.3. MONITORING RESULTS AND OBSERVATIONS

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

4.4. DISCUSSION AND CONCLUSION

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

5. WASTE

The waste generated from this Project includes inert construction and demolition (C&D) materials, and non-inert C&D materials. Non-inert C&D materials are made up of general refuse, vegetative wastes and recyclable wastes such as plastics and paper/cardboard packaging waste. Steel materials generated from the project are also grouped into non-inert C&D materials as the materials were not disposed of with other inert C&D materials. With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting month are presented in **Table 5.1**.

Table 5.1 Quantities of Waste Generated from the Project as of February 2024

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

協力 - 瑞沃 聯營
Concentric – Hong Kong River Joint Venture

Monthly Summary Waste Flow Table for Year 2024

Month	Quantities of Inert C&D Materials Generated Monthly														Quantities of C&D Wastes Generated Monthly									
	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)	
	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.	Est.	Act.
Jan	0.02	0	0	0	0	0	0	0	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb	2.02	0	0	0	0	0	0	0	0.02	0	2	0	0	0	0	0	0	0	0	0	0	0	0.02	0
Mar	2.02		0		0		0		0.02		2		0		0		0		0		0		0.01	
Apr	2.02		0		0		0		0.02		2		0		0		0		0		0		0.01	
May	2.02		0		0		0		0.02		2		0		0		0		0		0		0.005	
Jun	2.02		0		0		0		0.02		2		0		0		0		0		0.01		0.005	
Sub-total	10.12		0		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	
Nov	0.2		0		0		0		0.2		0.0		0		0		0		0		0		0.005	
Dec	0.2		0		0		0		0.2		0.0		0		0		0		0		0.01		0.005	
Total	11.52	0	0		0	0	0	0	1.52	0	10.00	0.00	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.

C and D Waste Disposal Record

As at the end of the month : February 2024

DELETE all data

Zone	District	Contract No.	Project Title	Trip Ticket Issued to Public Fill: Issue this month	Record in CEDD website	Total issued	Total recorded	Trip Ticket Issued to Land Fill: Issue this month	Record in EPD/CEDD websites	Total issued	Total recorded	C&D Material sent to Public Fill (tonne): This Month	Accumulated	C&D Waste sent to Land Fill (tonne): This Month	Accumulated
2	KE	TC J517 ASD 012775	Lei Yue Mun Waterfront Enhancement Project (Phase 3A)	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00

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

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

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

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 01, 07&08, 15, 22 and 29 February 2024.

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)		
02 November 23	CEDD 1. A part of the silt curtain should be improved and keep maintenance asap.	1. Maintenance is in progress.
09 November 23	CEDD 1. The silt curtain was observed too closed the offshore at landing facilities. The contractor is reminded that the silt curtain should be maintenance and improved if the marine works is ongoing.	1. Maintenance is in progress.
17 November 23	CEDD 1. Silt curtain should be maintenance and improved.	1. Maintenance is in progress.
23 November 23	CEDD 1. Silt curtain was too closed to the shore.	1. Maintenance is in progress.
01 December 23	CEDD 1. A part of the silt curtain was observed not intact and broken, the contractor is reminded that silt curtain should be maintenance, and make sure the silt curtain is good condition. 2. (Reminder) Houseleeping should be cleaned regularly.	1. Maintenance is in progress. 2. N.A.
07 December 23	CEDD 1. Silt curtain should be improved and maintenance. The silt curtain was observed too closed at off shore.	1. Maintenance is in progress.
14 December 23	CEDD 1. The silt curtain should be maintenance and	1. Maintenance is in

Date	Environmental Observations	Follow-up Status
	improved. The contractor is reminded that silt curtain should be good condition when rock excavation is ongoing.	progress.
21 December 23	CEDD 1. The silt curtain was observed too close offshore and a part of silt curtain is not good condition. The contractor is reminded that please ensure the silt curtain is good condition when the rock excavation is ongoing.	1. Maintenance is in progress.
28 December 23	CEDD 1. A part of silt curtain was observed to be disconnected and too close offshore. The contractor is reminded that silt curtain should be keep maintenance and improved the condition.	1. Maintenance is in progress.
Site observation(s) in reporting month		
01 February 24	CEDD 1. (Reminder) Silt curtain should be improved and maintainance. 2. (Reminder) Housekeeping and C&D waste should be removed. ASD 1. Nil	1. N.A. 2. N.A. 1. N.A.
07 February 24	ASD 1. Nil	1. N.A.
08 February 24	CEDD 1. Unknown wastewater should be handled properly. (Landing facilities) 2. (Reminder) Housekeeping and timber should be cleared. 3. (Reminder) Silt curtain should be keep maintainance and improved.	1. Unknown wastewater has been removed. 2. N.A. 3. N.A.
15 February 24	CEDD 1. (Reminder) Silt curtain should be keep maintainance and improved. ASD 1. (Reminder) Housekeeping at breakwater should be cleaned.	1. N.A. 1. N.A.

Date	Environmental Observations	Follow-up Status
22 February 24	CEDD 1. (Reminder) Good housekeeping should be maintained near the seaside. 2. (Reminder) Silt curtain should be repaired or replaced. ASD 1. Nil	1. N.A. 2. N.A. 1. N.A.
29 February 24	CEDD 1. (Reminder) Good housekeeping should be maintained. 2. (Reminder) Silt curtain should be fully surrounded the site area. ASD 1. Nil	1. N.A. 2. N.A. 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 excavation	Landing Facility
[redacted]	
Contract No. TC J517	
Excavation work	Phase 3A
Drainage installation	Phase 3A
Cable duct installation	Phase 3A

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 m^3 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 34th Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 February to 29 February 2024, in accordance with the EM&A Manual and the requirement under EP-564/2018.

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

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

Environmental site inspections were carried out on 01, 07&08, 15, 22 and 29 February 2024. The contractor was reminded to regular maintain the silt curtain to ensure a good efficiency of performance.

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	50.1 - 62.6
HPRE 75B*	55-75	NM2-A	55.1 - 58.2
LYMP	70	NM3	56.4 - 59.2
HPRE 21C	67-75	NM4	51.5 - 60.0

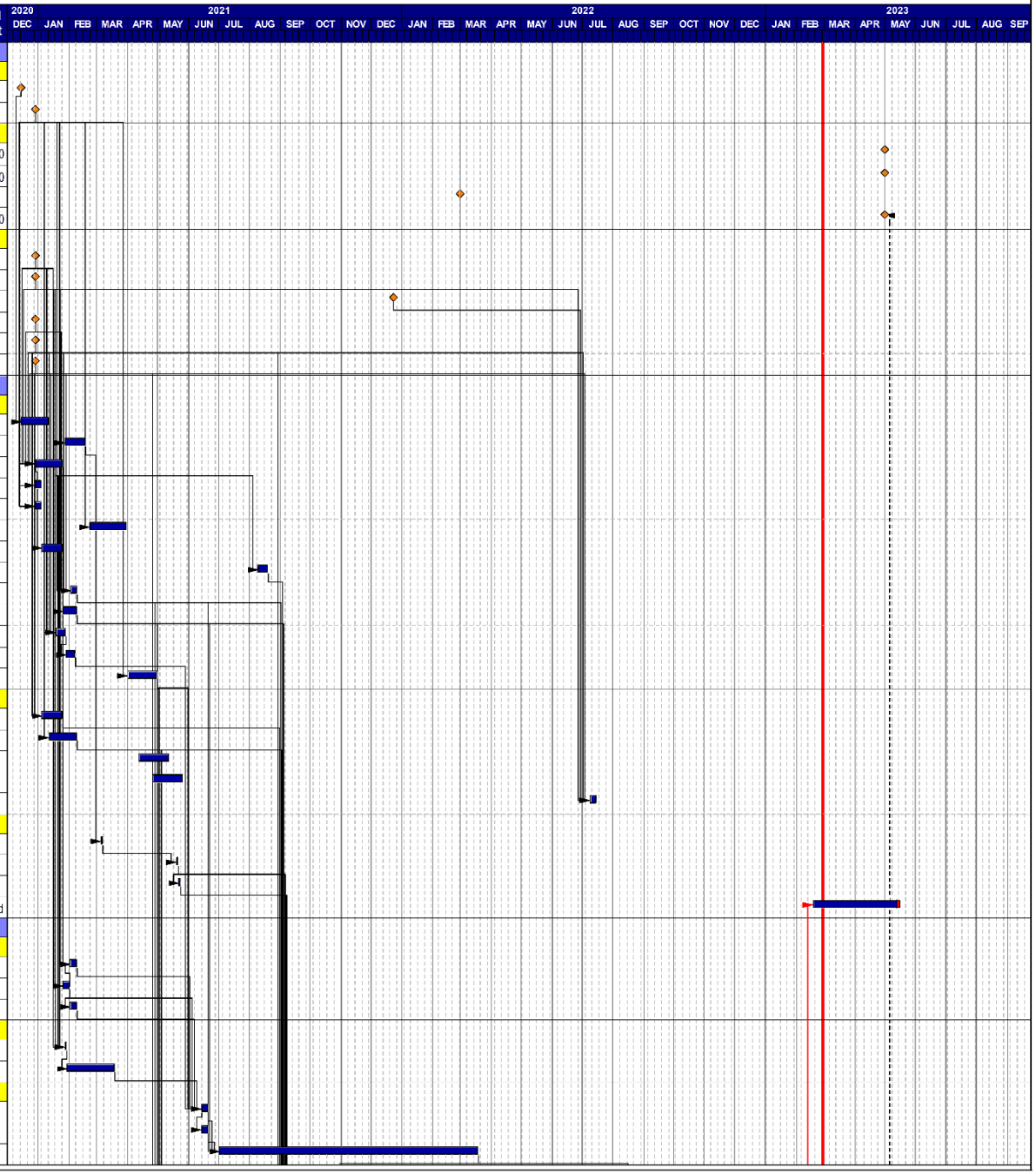
*NM2-A is located between NAPs HPRE 75B and HPRE 81, with lack of data in the NMP, the EIA prediction was used instead.

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

Appendix A
Master Programme

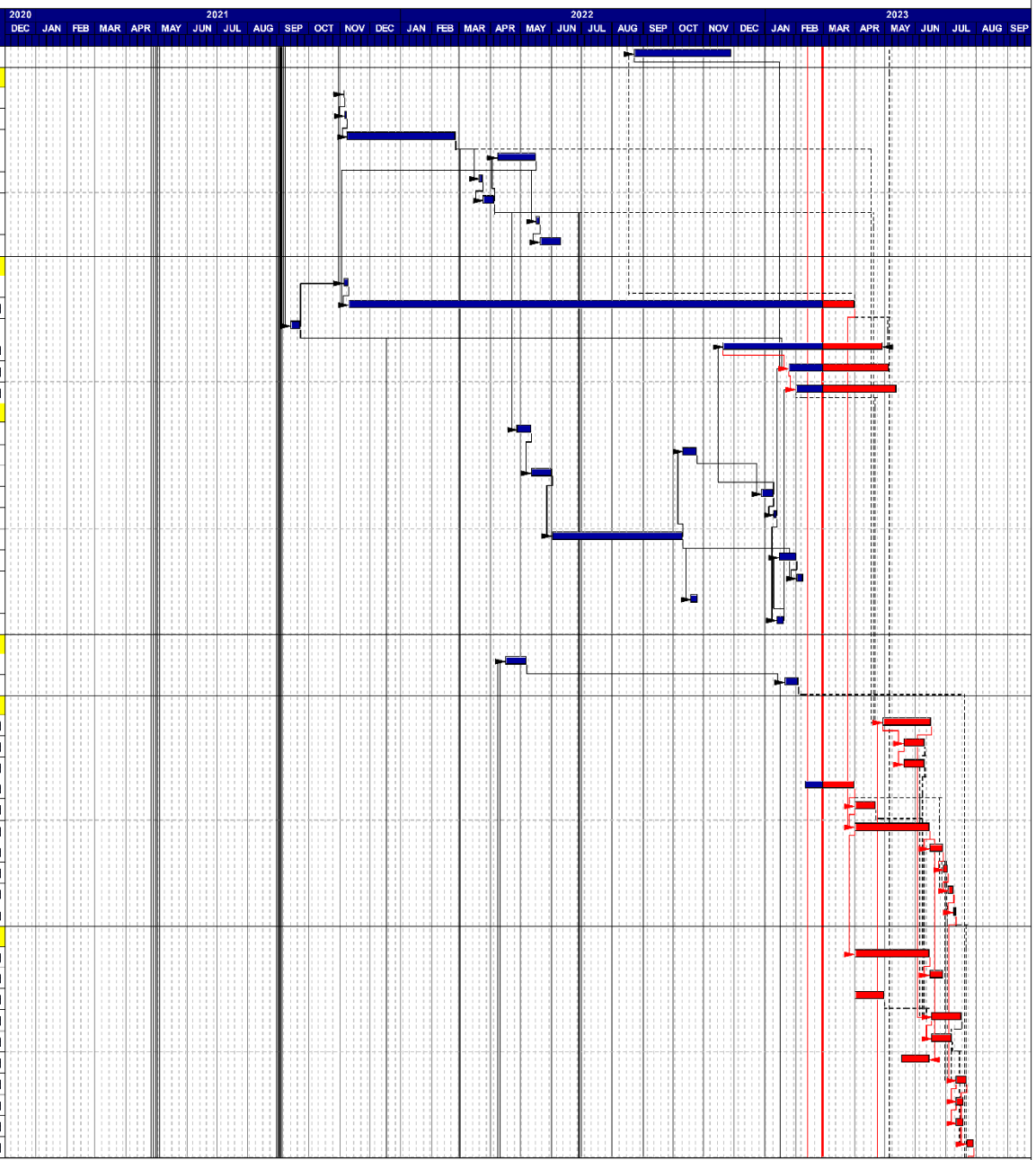
CEDD Contract No. CV/2020/09
Construction of Lei Yue Mun Public Landing Facility

Act ID	Description	Orig Dur	Early Start	Early Finish	Total Float
Key Dates					
Contract Date and Starting Date					
K1-1000	Acceptance of Tender	0	15DEC20 A		
K1-1100	Commencement of the Works	0	29DEC20 A		
Completion Dates					
K2-1000	Section 1 of the Works	0		30APR23 *	0
K2-1010	Section 2 of the Works	0		30APR23 *	0
K2-1020	Section 3 of the Works	0		28FEB22 A	
K2-1100	Whole of the Works	0		30APR23 *	0
Site Access Dates					
K3-1000	Access to Part A of the Site	0	29DEC20 A		
K3-1010	Access to Part B of the Site	0	29DEC20 A		
K3-1020	Access to Part C of the Site	0	24DEC21 A		
K3-1030	Access to Part D of the Site	0	29DEC20 A		
K3-1040	Access to Part E of the Site	0	29DEC20 A		
K3-1050	Access to Part F of the Site	0	29DEC20 A		
Bill No. 1 - Preliminaries					
General Preliminaries					
B1-1000	Statutory Notifications (LD/EPD/CIC/PCFB)	28	15DEC20 A	11JAN21 A	
B1-1010	Notification of Marine Works	21	28JAN21 A	17FEB21 A	
B1-1100	General Site Clearance	28	29DEC20 A	25JAN21 A	
B1-1200	Provision of Land Transport for PM	7	29DEC20 A	04JAN21 A	
B1-1210	Provision of 24-hr Telephone Hotline	7	29DEC20 A	04JAN21 A	
B1-1220	Design of Project Website	38	22FEB21 A	30MAR21 A	
B1-1300	Initial Topographic Survey	21	05JAN21 A	25JAN21 A	
B1-1301	Initial Hydrographic Survey	10	10AUG21 A	19AUG21 A	
B1-1310	Condition Survey	6	03FEB21 A	08FEB21 A	
B1-1320	Establishment of Structural Monitoring	14	26JAN21 A	08FEB21 A	
B1-1400	Tree Survey & Tree Risk Assessment	10	19JAN21 A	28JAN21 A	
B1-1410	Tree Felling	10	29JAN21 A	07FEB21 A	
B1-1500	Submission of Noise Management Plan	30	01APR21 A	30APR21 A	
Site Establishment					
B1-2000	Erection of Site Hoarding	21	05JAN21 A	25JAN21 A	
B1-2100	Provision of Contractor's Site Accommodation	28	12JAN21 A	08FEB21 A	
B1-2110	Provision of PM's Principal Site Office	31	12APR21 A	12MAY21 A	
B1-2120	Provision of PM's Container Site Office	31	26APR21 A	26MAY21 A	
B1-2200	Erection of Project Signboard	7	09JUL22 A	15JUL22 A	
Coral Related Works					
B1-3000	Coral Baseline Survey	2	05MAR21 A	06MAR21 A	
B1-3100	Coral Translocation	2	20MAY21 A	21MAY21 A	
B1-3110	Coral Survey of Translocated Coral Colonies	2	22MAY21 A	23MAY21 A	
B1-3200	Final Coral Survey	14	18FEB23 A	16MAY23	-16d
Bill No. 2 - Landing Facility & Seawall					
Site Clearance					
B2-1000	Demolition of Existing Squatter	7	02FEB21 A	08FEB21 A	
B2-1010	Removal of Existing Gabion Wall at Part B	7	26JAN21 A	01FEB21 A	
B2-1020	Removal of Existing Armour Rock at Part B	7	02FEB21 A	08FEB21 A	
Ground Investigation					
B2-2000	Mobilization of Drilling Rig	2	28JAN21 A	29JAN21 A	
B2-2010	Pre-drilling (13 Nos. Drillholes)	48	30JAN21 A	18MAR21 A	
Pipe Pile Wall					
B2-3000	Mobilization of Piling Plant	7	14JUN21 A	20JUN21 A	
B2-3010	Installation of Silt Curtain	7	14JUN21 A	20JUN21 A	
B2-3020	Installation & Grouting of Pipe Piles (86 Nos.)	260	02JUL21 A	18MAR22 A	



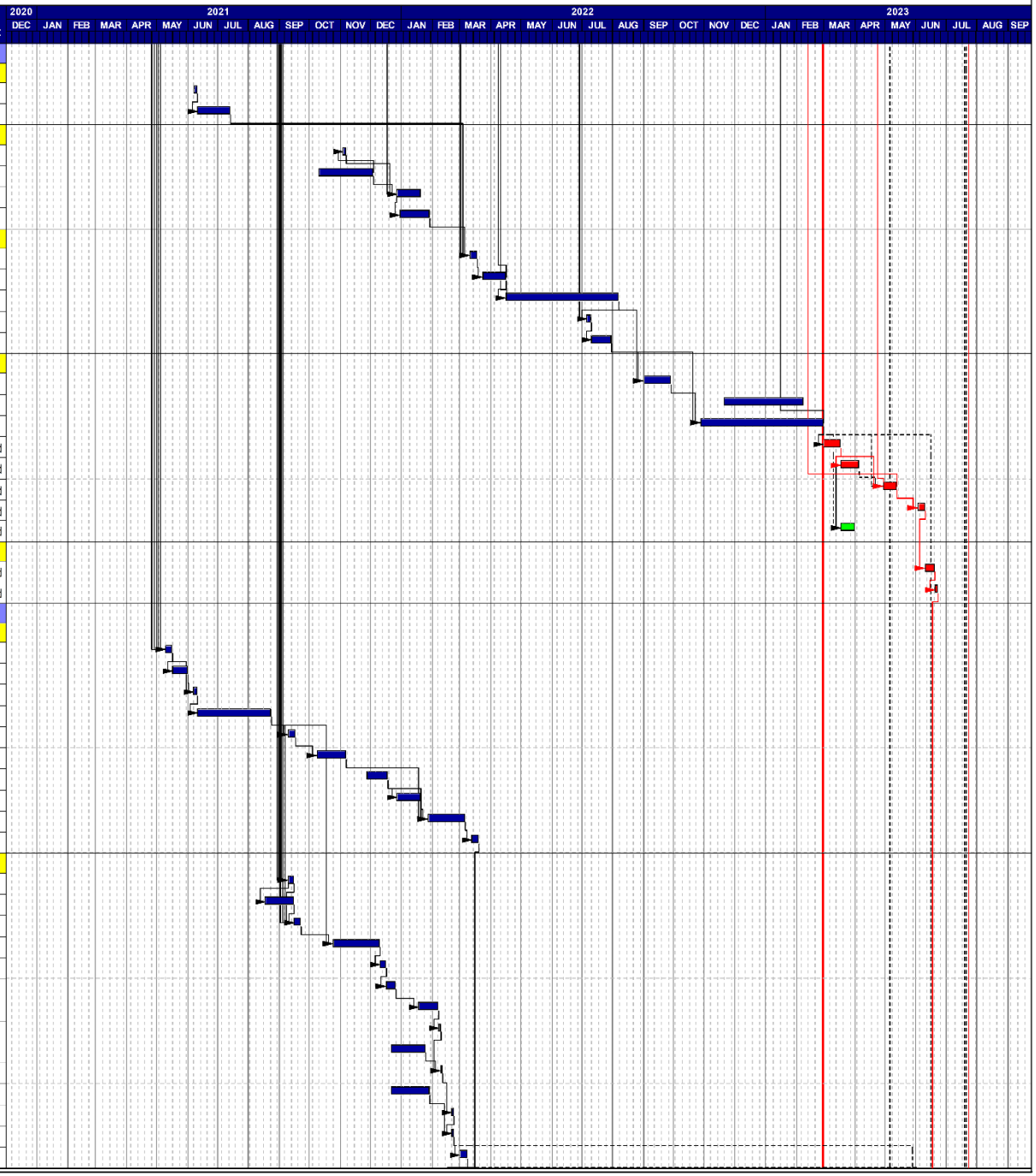
CEDD Contract No. CV/2020/09
Construction of Lei Yue Mun Public Landing Facility

Act ID	Description	Orig Dur	Early Start	Early Finish	Total Float
B2-3030	Construction of Capping Beam & Panel Wall	100	23AUG22 A	28NOV22 A	
Socketted Steel H-piles					
B2-4000	Mobilization of Piling Plant	1	05NOV21 A	05NOV21 A	
B2-4010	Construction of Preliminary Pile	3	06NOV21 A	08NOV21 A	
B2-4020	Construction of Main Piles (34 Nos.)	108	09NOV21 A	24FEB22 A	
B2-4030	Grouting of Main Piles (34 Nos.)	38	08APR22 A	16MAY22 A	
B2-4100	Setup of Pile Testing Equipment	4	21MAR22 A	24MAR22 A	
B2-4110	Pile Load Test (1 No.)	8	25MAR22 A	04APR22 A	
B2-4200	Mobilization of Drilling Rig	4	17MAY22 A	20MAY22 A	
B2-4210	Post-construction Proof Drilling (4 NoS.)	14	21MAY22 A	10JUN22 A	
Dredging and Sloping Seawall					
B2-5000	Mobilization of Excavation Plant	5	05NOV21 A	09NOV21 A	
B2-5100	Rock Excavation (Land-based)	500	10NOV21 A	31MAR23	-89d
B2-5200	Marine Dredging	10	13SEP21 A	22SEP21 A	
B2-5300	Placing of Levelling Stones	60	20NOV22 A	28APR23	-27d
B2-5310	Installation of Seawall Blocks	60	25JAN23 A	05MAY23	-27d
B2-5320	Placing of Rock Armours	60	01FEB23 A	12MAY23	-27d
Vertical Seawall					
B2-6000	Excavation to Formation Level (Bay 1)	14	28APR22 A	11MAY22 A	
B2-6010	Excavation to Formation Level (Bay 2)	14	11OCT22 A	24OCT22 A	
B2-6100	Placing of Rock Fill Foundation (Bay 1)	21	12MAY22 A	01JUN22 A	
B2-6110	Placing of Levelling Stones (Bay 2)	12	29DEC22 A	09JAN23 A	
B2-6120	Placing of Seawall Blocks (Bay 2)	3	10JAN23 A	12JAN23 A	
B2-6200	R.C. Wall w/ Granite Facing (Bay 1)	70	02JUN22 A	10OCT22 A	
B2-6210	R.C. Wall w/ Granite Facing (Bay 2)	18	15JAN23 A	01FEB23 A	
B2-6220	Backfilling behind R.C. Wall	7	02FEB23 A	08FEB23 A	
B2-6400	Placing of Rock Armours (Bay 1)	7	19OCT22 A	25OCT22 A	
B2-6410	Placing of Rock Armours (Bay 2)	7	13JAN23 A	19JAN23 A	
Linking Structure					
B2-6500	Construction of Main Piles (4 Nos.)	21	16APR22 A	06MAY22 A	
B2-6600	Cast in-situ Pile Cap (PB13)	14	21JAN23 A	03FEB23 A	
Landing Steps and Decking					
B2-7000	Installation of Precast Pile Cap Walls (PW1-PW7)	49	29APR23	16JUN23	-87d
B2-7020	Installation of Precast Stringer Beams	21	20MAY23	09JUN23	-80d
B2-7030	Installation of Precast Tie Beams (B1-B5)	21	20MAY23	09JUN23	-80d
B2-7100	Cast in-situ Pile Caps (PB9-PB12)	60	10FEB23 A	31MAR23	-89d
B2-7101	Cast in-situ Pile Caps (PB1-PB3)	21	01APR23	21APR23	-89d
B2-7102	Cast in-situ Pile Caps (PB4-PB8)	75	01APR23	14JUN23	-89d
B2-7200	Installation of Precast Decking Slabs (S1-S17)	14	15JUN23	28JUN23	-89d
B2-7210	Installation of Precast Ramps	5	29JUN23	03JUL23	-89d
B2-7300	Installation of Precast Landing Slabs (L1-L5)	5	04JUL23	08JUL23	-89d
B2-7310	Installation of Precast Landing Steps (L6-L8)	3	09JUL23	11JUL23	-89d
Ancillary Works					
B2-8000	Installation of Corrosion Monitoring System	75	01APR23	14JUN23	-59d
B2-8010	Testing of Corrosion Monitoring System	14	15JUN23	28JUN23	-59d
B2-8100	Fabrication of Fender Waling	30	01APR23 *	30APR23	-40d
B2-8110	Installation of Fender System	30	17JUN23	16JUL23	-87d
B2-8200	Installation of Cathodic Protection System	21	17JUN23	07JUL23	-75d
B2-8300	Installation of Mooring Bollards	28	18MAY23	14JUN23	-45d
B2-8400	Installation of Stainless Steel Handrailing	10	12JUL23	21JUL23	-89d
B2-8500	Installation of Marine Notice Board	7	12JUL23	18JUL23	-79d
B2-8510	Installation of Structure Nr Plate & Info Plate	7	12JUL23	18JUL23	-79d
B2-8600	Vacation of Site Area	7	22JUL23	28JUL23	-89d



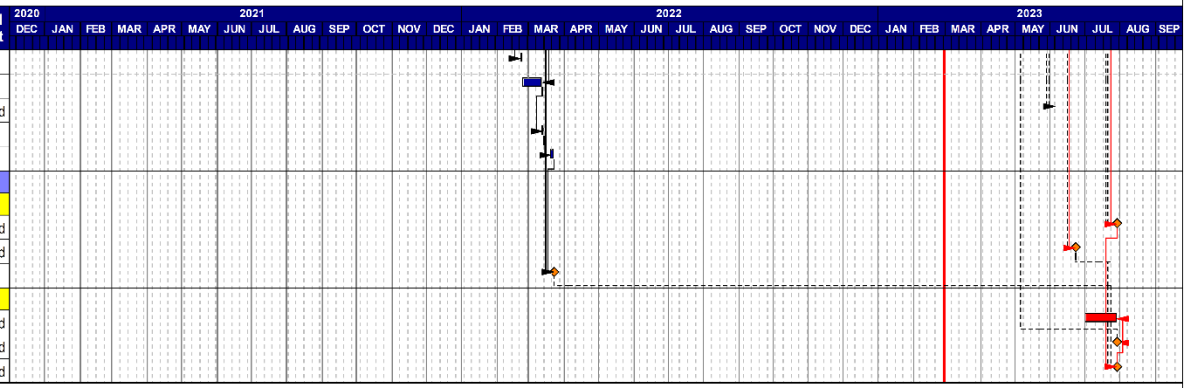
CEDD Contract No. CV/2020/09
Construction of Lei Yue Mun Public Landing Facility

Act ID	Description	Orig Dur	Early Start	Early Finish	Total Float
Bill No. 3 - Breakwater					
Ground Investigation					
B3-2000	Mobilization of Drilling Rig & Jackup Barge	3	08JUN21 A	10JUN21 A	
B3-2010	Pre-drilling (8 Nos. Drillholes)	33	11JUN21 A	13JUL21 A	
Temporary Working Platform					
B3-1000	Installation of Silt Curtain	3	04NOV21 A	06NOV21 A	
B3-1100	Submission of Temporary Works Design	54	11OCT21 A	03DEC21 A	
B3-1200	Installation of Temporary Piles	24	28DEC21 A	20JAN22 A	
B3-1210	Installation of Temporary Working Platform	30	31DEC21 A	29JAN22 A	
Socketted Steel H-piles					
B3-3000	Mobilization of Piling Plant	7	11MAR22 A	17MAR22 A	
B3-3010	Construction of Preliminary Piles	23	24MAR22 A	15APR22 A	
B3-3020	Construction of Main Piles (34 Nos.)	113	16APR22 A	06AUG22 A	
B3-3100	Setup of Pile Testing Equipment	5	06JUL22 A	10JUL22 A	
B3-3110	Pile Load Test (2 Nos.)	20	11JUL22 A	30JUL22 A	
Breakwater Structure					
B3-4000	Modification of Temporary Working Platform	28	01SEP22 A	28SEP22 A	
B3-4010	Modification of Pile Heads (PMI No.55)	80	21NOV22 A	08FEB23 A	
B3-4100	Cast In-situ Pile Caps (PB14 & PB15)	120	28OCT22 A	28FEB23 A	
B3-4110	Cast In-situ Breakwater Tip Pile Cap (BW2)	18	28FEB23	17MAR23	-87d
B3-4120	Protective Coating on Pile Caps	18	18MAR23	04APR23	-63d
B3-4200	Installation of Precast Frame Units (BW1 x 10)	14	29APR23	12MAY23	-87d
B3-4210	Installation of Precast Frame Unit (BW3)	7	03JUN23	09JUN23	-53d
B3-4400	Removal of Temporary Working Platform	14	18MAR23	31MAR23	30d
Ancillary Works					
B3-5100	Installation of Navigation Light Post	10	10JUN23	19JUN23	-53d
B3-5200	Vacation of Site Area	3	20JUN23	22JUN23	-53d
Bill No. 4 - Lookout Point and Viewing Platform					
Improvement Works at Lookout Point					
B4-1000	Demolition of Existing Wall	7	10MAY21 A	16MAY21 A	
B4-1100	Levelling of Existing Beach	14	17MAY21 A	31MAY21 A	
B4-1200	Mobilization of Piling Plant	4	07JUN21 A	10JUN21 A	
B4-1210	Installation of Pipe Piles (40 Nos.)	74	11JUN21 A	23AUG21 A	
B4-1220	Trimming of Pipe Piles for Wall Openings	7	10SEP21 A	16SEP21 A	
B4-1230	Infill Grouting of Pipe Piles	7	09OCT21 A	06NOV21 A	
B4-1280	Demobilization and Site Preparation	21	28NOV21 A	18DEC21 A	
B4-1290	Excavation and Placing of Concrete Blinding	24	28DEC21 A	20JAN22 A	
B4-1300	Casting of Skin Wall	37	28JAN22 A	05MAR22 A	
B4-1400	Laying of Concrete Paving	0	13MAR22 A	19MAR22 A	
Improvement Works at Viewing Platform					
B4-2000	Relocation of Existing Gabion Blocks	6	10SEP21 A	15SEP21 A	
B4-2010	Temporary Modification of Existing Drainage	29	18AUG21 A	15SEP21 A	
B4-2100	Mobilization of Piling Plant	7	16SEP21 A	22SEP21 A	
B4-2110	Installation of Pipe Piles (30 Nos.)	47	25OCT21 A	10DEC21 A	
B4-2120	Infill Grouting of Pipe Piles	6	11DEC21 A	16DEC21 A	
B4-2130	Demobilization and Site Preparation	10	17DEC21 A	26DEC21 A	
B4-2200	Excavation to Formation Level	20	19JAN22 A	07FEB22 A	
B4-2210	Placing of Levelling Stones	2	08FEB22 A	09FEB22 A	
B4-2219	Precasting of Seawall Blocks	35	22DEC21 A	25JAN22 A	
B4-2220	Installation of Seawall Blocks	2	10FEB22 A	11FEB22 A	
B4-2221	Precasting of Concrete Backing w/ Granite Facing	39	22DEC21 A	29JAN22 A	
B4-2230	Placing of Concrete Blinding	2	21FEB22 A	22FEB22 A	
B4-2240	Installation of Concrete Backing	2	21FEB22 A	22FEB22 A	
B4-2250	Cast in-situ Concrete Coping	8	01MAR22 A	08MAR22 A	



CEDD Contract No. CV/2020/09
Construction of Lei Yue Mun Public Landing Facility

Act ID	Description	Orig Dur	Early Start	Early Finish	Total Float
B4-2260	Installation of Geotextile Filter	2	22FEB22 A	23FEB22 A	
B4-2300	Backfilling behind Concrete Backing & Coping	13	24FEB22 A	12MAR22 A	
B4-2400	Installation of Enhanced Seawall Panels	0	05JUN23 *	04JUN23	-35d
B4-2500	Laying of Concrete Paving	0	13MAR22 A	13MAR22 A	
B4-2600	Vacation of Site Area	3	20MAR22 A	22MAR22 A	
Completion and Handover					
Sectional Completion					
C1-1000	Completion of Section 1 of the Works	0		28JUL23	-89d
C1-1010	Completion of Section 2 of the Works	0		22JUN23	-53d
C1-1020	Completion of Section 3 of the Works	0		22MAR22 A	
Final Completion					
C1-2000	Final Survey & Submission of As-built Records	28	01JUL23	28JUL23	-89d
C1-2100	Handover of the Works to the Employer	0		28JUL23	-89d
C1-2200	Completion of Whole of the Works	0		28JUL23	-89d



Start date	15DEC20
Must finish date	30APR23

CONSTRUCTION PROGRAMME

- Early bar
- Progress bar
- Critical bar
- Start milestone point
- Finish milestone point

Date	Revision	Checked	Approved
28FEB23		ZYW	TSL

Project Ref: CHKRJV
Contract: CV/2020/09

Steel Fender & Defects Works Schedule

Date 2024 .0201

Item	製造工序	一月-24					24-二月				24-三月				四月-24					24-五月				24-六月				24-七月					24-八月				24-九月					24-十月				
		1/1	1/8	1/15	1/22	1/29	2/5	2/12	2/19	2/26	3/4	3/11	3/18	3/25	4/1	4/8	4/15	4/22	4/29	5/6	5/13	5/20	5/27	6/3	6/10	6/17	6/24	7/1	7/8	7/15	7/22	7/29	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	9/30	10/7	10/14	10/21	10/28	11/4
Steel Fender	Installation - Grid D-E																																												
	Installation - Grid E-F																																												
	Installation - Grid F-G																																												
	Installation - Grid G-H																																												
	Installation - Grid H-I																																												
	Installation - Grid I-J																																												
	Installation - Grid J-K																																												
	SS Component Installation																																												
	CP System for Steel Fender																																												
Out-Standing Works	CI Pipe Installation																																												
	Formwork & Concreting of CI-Pipe																																												
	Blinding & Completion of Vertical Seawall																																												
	Anti-Skid Painting for Staircase & Ramp																																												
	LYM Signages																																												
Rock Drilling & Excavation	Rock Drilling 610 Dia.																																												
	Rock Breaking & Excavation of Seabed																																												
	Disposal & Final Dreging of Seabed																																												

Main Contractor : Sun On Building Contractors Limited
Contract No. : HC 1417
W.O. No. : ASD 012773 & 012784
Project Title (in full) : Sai Wan Ho Seafront Enhancement Project (Phase 3A & 3B)
Title: Master Programme

Revision: 0
Updated Date: 08/02/2024

ID	Mode	WBS	Duration	Start	Finish
1		1	0 days	Mon 4/9/23	Mon 4/9/23
2		2	0 days	Sat 29/6/24	Sat 29/8/24
3					
4		3	38 days	Mon 4/9/23	Thu 30/11/23
5		3.1	0 days	Mon 4/9/23	Mon 4/9/23
6		3.2	28 days	Mon 4/9/23	Sun 1/10/23
7		3.3	1 day	Fri 6/10/23	Fri 6/10/23
8		3.4	40 days	Mon 4/9/23	Fri 13/10/23
9		3.5	7 days	Sat 14/10/23	Fri 20/10/23
10		3.6	60 days	Mon 2/10/23	Thu 30/11/23
11					
12		4	150 days	Mon 18/12/23	Fri 24/5/24
13		4.1	48 days	Sat 30/12/23	Sat 24/2/24
14		4.2	15 days	Sun 25/2/24	Sun 10/3/24
15		4.3	29 days	Mon 11/3/24	Mon 8/4/24
16		4.3.1	Construction of new FINW 01 manhole with related drainage pipe	14 days	Mon 11/3/24
17		4.3.2	Make good the existing surface channel	14 days	Mon 11/3/24
18		4.3.3	Construction of new surface channel with related fittings	14 days	Mon 11/3/24
19		4.3.4	T&C for drainage system	15 days	Mon 25/3/24
20		4.4	150 days	Mon 18/12/23	Fri 24/5/24
21		4.4.1	Installation of water pipe at U/G	15 days	Tue 5/3/24
22		4.4.2	Submission and approval of drinking fountain	30 days	Mon 18/12/23
23		4.4.3	Material ordering for drinking fountain	90 days	Wed 17/1/24
24		4.4.4	Installation of drinking fountain	7 days	Thu 25/4/24
25		4.4.5	Installation of water meter	15 days	Thu 25/4/24
26		4.4.6	T&C for plumbing system	15 days	Fri 10/5/24
27					
28		5	BS Installation incl. T & C for Phase 3A & 3B	89 days	Mon 11/3/24
29		5.1	Installation of U/G cable duct	7 days	Mon 11/3/24
30		5.2	Construction of lamp post footing	15 days	Mon 18/3/24
31		5.3	Installation of conduit works	21 days	Mon 18/3/24
32		5.4	Wiring work	25 days	Mon 8/4/24
33		5.5	Lighting installation	21 days	Fri 5/5/24
34		5.6	T&C for electrical system	15 days	Fri 24/5/24
35					
36		6	Phase 3A Hard Landscape Works	51 days	Tue 9/4/24
37		6.1	Backfilling to existing ground	7 days	Tue 9/4/24
38		6.2	Formation excavation (Feature wall)	7 days	Tue 9/4/24
39		6.3	Laying steel mesh and concreting for on-grade slab	14 days	Tue 16/4/24
40		6.4	Preparation work for granite floor tile (c/s screeding)	14 days	Tue 30/4/24
41		6.5	Laying granite floor tile	20 days	Tue 14/5/24
42		6.6	Construction of feature wall	30 days	Tue 30/4/24
43		6.7	Construction of R.C. planter	14 days	Tue 30/4/24
44		6.8	Construction of R.C. benches	14 days	Tue 30/4/24
45		6.9	Construction of R.C. ramp & staircase	30 days	Tue 30/4/24
46		6.10	Installation of balustrade	7 days	Mon 20/5/24
47					
48		7	Phase 3A Soft Landscape Works	24 days	Tue 14/5/24
49		7.1	Planting Soil Work	14 days	Tue 14/5/24
50		7.2	Planting Works (Shrub and Lawn)	10 days	Tue 28/5/24
51					
52		8	Phase 3A Completion	9 days	Thu 6/6/24
53		8.1	Pre-handover inspection	0 days	Thu 6/6/24
54		8.2	Defect rectification	7 days	Fri 7/6/24
55		8.3	Final handover inspection	1 day	Fri 14/6/24
56					
57		9	Preparation Works for Phase 3B	51 days	Mon 19/2/24
58		9.1	Condition survey	21 days	Mon 19/2/24
59		9.2	Provision of CCTV	1 day	Wed 21/2/24
60		9.3	Installation of temp. safety barrier	14 days	Mon 19/2/24
61		9.4	Material, method statement & shop drawing submission	30 days	Mon 11/3/24
62					
63		10	Drainage System for Phase 3B	29 days	Mon 25/3/24
64		10.1	Construction of drainage pipe	14 days	Mon 25/3/24
65		10.2	T&C for drainage system	15 days	Mon 8/4/24
66					
67		11	Phase 3B Hard Landscape Works	182 days	Mon 4/3/24
68		11.1	Fabrication of precast slab	14 days	Mon 4/3/24
69		11.2	Construction of precast slab	30 days	Mon 18/3/24
70		11.3	Laying steel mesh and concreting for on-grade slab	14 days	Wed 17/4/24
71		11.4	Construction of R.C. planter	14 days	Tue 30/4/24
72		11.5	Construction of R.C. ramp & staircase	28 days	Tue 30/4/24
73		11.6	Installation of metal grill wall	5 days	Tue 14/5/24
74		11.7	Installation of balustrade	7 days	Sat 18/5/24
75		11.8	Preparation work for granite floor tile (c/s screeding)	14 days	Fri 9/8/24
76		11.9	Laying granite floor tile	20 days	Fri 23/8/24
77					
78		12	Phase 3B Precast Steel Roof & Elements	188 days	Thu 25/1/24
79		12.1	Preparation & Approval for Structure Submission package (precast elements + steel roof system)	60 days	Thu 25/1/24
80		12.2	Preparing & Approval of shop drawing ((precast elements + steel roof system)	60 days	Sat 24/2/24
81		12.3	Material ordering (steel & rebar)	21 days	Wed 3/4/24
82		12.4	Sampling of material (including factory inspection)	21 days	Wed 24/4/24
83		12.5	Fabrication	67 days	Wed 24/4/24
84		12.5.1	Fabrication of steel mould for precast elements	28 days	Wed 24/4/24
85		12.5.2	Fabrication of precast elements	28 days	Wed 22/5/24
86		12.5.3	Hot-dip galvanizing of steel roof	3 days	Wed 19/6/24
87		12.5.4	Fabrication of steel frame	40 days	Sat 18/5/24
88		12.5.5	Trial installation of steel frame	3 days	Thu 27/6/24
89		12.6	Delivery and Installation	51 days	Wed 19/6/24
90		12.6.1	Delivery of precast elements	7 days	Wed 19/6/24
91		12.6.2	Installation of precast slab elements	7 days	Wed 26/6/24
92		12.6.3	Setting up of temporary propping system for precast beam and elements	7 days	Wed 3/7/24
93		12.6.4	Installation of precast column & beam	9 days	Wed 10/7/24
94		12.6.5	Delivery of steel frame	10 days	Wed 10/7/24
95		12.6.6	Installation of steel frame	15 days	Sat 20/7/24
96		12.6.7	Sealing up and making good works	5 days	Sun 4/8/24
97					
98		13	BS Installation incl. T & C for Phase 3B	91 days	Sat 25/5/24
99		13.1	Wiring work	25 days	Sat 25/5/24
100		13.2	Lighting installation	21 days	Wed 19/6/24
101		13.3	T&C for electrical system	15 days	Fri 5/8/24
102					
103		14	Phase 3B Soft Landscape Works	21 days	Fri 9/8/24
104		14.1	Planting Soil Work	14 days	Fri 9/8/24
105		14.2	Planting Works (Shrub and Lawn)	7 days	Fri 23/8/24
106					
107		15	Phase 3B Completion	8 days	Fri 30/8/24
108		15.1	Pre-handover inspection	0 days	Fri 30/8/24
109		15.2	Defect rectification	7 days	Fri 30/8/24
110		15.3	Final handover inspection	1 day	Fri 6/9/24

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

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

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and Guidelines
				Des	C	O	
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		√		Ditto
S4.8.1.7 & S4.8.1.8	Noise Barriers and Noise Enclosure The Contractor will be responsible for design of the movable noise barrier with due consideration given to the size of the PME and the requirement of intercepting the line of sight between the NSRs and PME. The movable noise barrier should have a minimum surface density of 10 kg/m^2 and it should have no openings or gaps. Portable noise enclosure should be used, as far as practicable, to mitigate the noise impacts arising from the use of handheld breaker, air compressor, compactor (vibratory) and drill/grinder, hand-held electric at some work areas (i.e. works areas LP3, LP4, LP5 and ST) where locate very close to the NSRs.	Work sites /during construction stage	Contractor		√		Ditto

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and Guidelines
				Des	C	O	
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		√		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. 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	Work sites / during construction stage	Project Proponent / Contractor		√		Ditto

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and Guidelines
				Des	C	O	
	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 / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and Guidelines
				Des	C	O	
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		√	√	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		√	√	♦ 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 Agent	Implementation Stages*			Relevant Legislation and Guidelines
				Des	C	O	
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		√	√	♦ 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		√	√	♦ 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		√	√	♦ EIAO-TM ♦ WPCO

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and Guidelines
				Des	C	O	
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		√		♦ 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		√	√	♦ 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		√		♦ ProPECCPN 1/94 Construction Site Drainage ♦ WPCO

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

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and Guidelines
				Des	C	O	
	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	√		√	♦ 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' detention time) can be provided at final discharge point before discharge into the existing watercourse.	Works sites/ during operation stage	Project Proponent / Operator	√		√	♦ EIAO-TM ♦ WPCO ♦ WDO

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

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

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

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

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

Table B.5 Implementation Schedule for Waste Management Measures

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and Guidelines
				Des	C	O	
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 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.	Works sites/ during design and construction stages	Project Proponent/ Contractor	√	√		♦ EIAO-TM ♦ ETWB TCW No. 19/2005
S7.7.3.1	*Good Site Practices* • Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site. • Training of site personnel in proper waste management and chemical wastes handling procedures.	Works sites/ during design and construction stages	Project Proponent/ Contractor	√	√		♦ EIAO-TM ♦ ETWB TCW No. 19/2005

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

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

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

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and Guidelines
				Des	C	O	
	• 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).						

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and Guidelines
				Des	C	O	
	• 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 self-monitoring 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 carp-shaped platform construction works should be segregated from other waste to avoid contamination and ensure acceptability at the public fill reception facilities or reclamation sites. • C&D materials should be sorted on-site into inert and non-inert materials.	Works sites / during construction stage	Contractor		√		♦ WDO ♦ DEVB TCW No. 06/2010 ♦ ETWB TCW 33/2002 ♦ ETWB TCW 19/2005

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and Guidelines
				Des	C	O	
	• 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	Implementation Stages*			Relevant Legislation and Guidelines
				Des	C	O	
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		√		♦ WDO ♦ Code of Practice on the Packaging, Labelling and Storage of Chemical Waste ♦ A Guide to the Chemical Waste Control Scheme
S7.7.9.1 & S7.7.11.1	*General Refuse* • General refuse should be stored in enclosed bins separately from construction and chemical waste. • Recycling bins should also be placed to encourage recycling. • Enclosed and covered areas should be provided preferably for general refuse collection. Routine cleaning should be also be provided to keep the areas clean. • A reputable waste collector should be employed to remove general refuse on a daily basis	Works sites / during construction and operation stages	Project Proponent / Contractor		√	√	♦ WDO
S7.7.10.1 & S7.7.10.2	*Floating Refuse* • Floating refuse should be collected and removed at regular intervals on a daily basis to keep water within the site boundary and the neighbouring water free from rubbish. • In case of floating refuse is identified, a waste	Works sites / during construction stage	Contractor		√		♦ WDO

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

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

Table B.6 Implementation Schedule for Land Contamination Mitigation Measures

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and Guidelines
				Des	C	O	
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 / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and Guidelines
				Des	C	O	
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	√	√	√	♦ 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		√		♦ 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			√	♦ Cap. 586

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and Guidelines
				Des	C	O	
	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 100m^3 per hour) and deployment of silt curtains.	Works site / during dredging operation in the construction and maintenance dredging stages	Contractors		√	√	♦ 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		√		♦ WPCO ♦ ProPECC PN 1/94

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and Guidelines
				Des	C	O	
	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).						
S9.8.1.7	*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		√	√	♦ EIAO-TM

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

Table B.8 Implementation Schedule for Fisheries Mitigation Measures

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and Guidelines
				Des	C	O	
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 100m^3 per hour) recommended in the water quality impact assessment would be implemented to control water quality impacts to within acceptable levels. These mitigation measures would also control and minimize the indirect impacts on fisheries resources due to deterioration in water quality as a result of both capital and maintenance dredging works.	Works site / during the construction and operation stages	Contractors		√	√	♦ 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 Guidelines
				Des	C	O	
Table 11.10	• CM1 - All the existing Trees to be retained and not to be affected by the Project should be carefully protected during the construction phase in accordance with DEVB TCW No. 7/2015 titled "Tree Preservation" and the latest "Guidelines on Tree Preservation during Development" issued by GLTM Section of DEVB, including provision of Tree Protection Zones (TPZs). Any existing vegetation in landscaped areas and natural terrain not to be affected by the Project should also be carefully preserved. Therefore, these existing landscape elements can maintain their qualities throughout the construction phase. • CM4 - Lighting for the construction works at night, if any, should be carefully controlled to prevent light overspill to the nearby VSRs and into the sky. • CM5 - Decorative Hoardings, with designs and forms compatible with the surrounding settings, should be erected during the construction phase to minimise the potential landscape and visual impacts from the construction works and activities, e.g. avoiding unintended destruction of existing trees and other landscape elements, and reducing visual bulkiness of the screen hoardings, etc. • CM6 - The layout and arrangement of construction site facilities which include site office and temporary storage area should be properly managed and construction activities at the site should be carefully supervised and controlled to minimise potential	Works site / during the design and construction stages	Project Proponent/ Contractors	√	√		♦ EIAO-TM ♦ DEVB TC (W) No.7/2015 ♦ Guidelines on Tree Preservation during Development

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and Guidelines
				Des	C	O	
	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			√	♦ 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	√		√	♦ EIAO-TM

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

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

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

Feb-24

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
	2			Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 13:58 - 19:00 Flood Tide: 07:02 - 13:58 Monitoring Time: Mid-ebb: 14:44 - 18:14$& Mid-flood: 08:45 - 12:15		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 15:14 - 21:55 Flood Tide: 07:49 - 15:14 Monitoring Time: Mid-ebb: 16:49 - 19:00$& Mid-flood: 09:46 - 13:16
4	5	6	7	8	9	10
	Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 16:42 - 23:59 Flood Tide: 01:41 - 16:42 Monitoring Time: Mid-ebb: 17:03 - 19:00$& Mid-flood: 08:00 - 10:56*$	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: 18:21 - 23:59 Flood Tide: 02:23 - 18:21 Monitoring Time: Mid-ebb: 18:37 - 19:00$& Mid-flood: 08:37 - 12:07		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 10:29 - 13:43 Flood Tide: 03:26 - 10:29 Monitoring Time: Mid-ebb: 10:38 - 13:33$ Mid-flood: 08:00 - 10:07*$	
11	12	13	14	15	16	17
				Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 14:03 - 19:16 Flood Tide: 06:33 - 14:03 Monitoring Time: Mid-ebb: 14:54 - 18:24 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 Tidal Period: Ebb Tide: 15:49 - 23:59 Flood Tide: 07:17 - 15:49 Monitoring Time: Mid-ebb: 16:13 - 19:00$& Mid-flood: 09:48 - 13:18
18	19	20	21	22	23	24
		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 18:45 - 23:59 Flood Tide: 01:57 - 18:45 Monitoring Time: Mid-ebb: 18:45 - 19:00$& Mid-flood: 08:36 - 12:06		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 10:07 - 13:00 Flood Tide: 13:00 - 20:16 Monitoring Time: Mid-ebb: 10:15 - 12:51$ Mid-flood: 14:53 - 18:23 Daytime Noise monitoring for NM1, NM2-A, NM3 & NM4		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 10:32 - 14:33 Flood Tide: 03:50 - 10:32 Monitoring Time: Mid-ebb: 10:47 - 14:17 Mid-flood: 08:00 - 11:03*$
25	26	27	28	29		
		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 11:23 - 16:32 Flood Tide: 05:00 - 11:23 Monitoring Time: Mid-ebb: 12:12 - 15:42 Mid-flood: 08:00 - 11:03*$	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: 12:08 - 17:57 Flood Tide: 05:44 - 12:08 Monitoring Time: Mid-ebb: 13:17 - 16:47 Mid-flood: 08:00 - 11:30*		

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

Mar-24

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
						Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 13:01 - 19:50 Flood Tide: 06:20 - 13:01 Monitoring Time: Mid-ebb: 14:40 - 18:10 Mid-flood: 08:00 - 11:25*$
3	4	5	6	7	8	9
		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 15:57 - 23:59 Flood Tide: 01:00 - 15:57 Monitoring Time: Mid-ebb: 16:21 - 19:00$& Mid-flood: 08:00 - 10:13*$ Daytime Noise monitoring for NM1, NM2-A, NM3 & NM4		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 09:18 - 11:30 Flood Tide: 11:30 - 18:11 Monitoring Time: Mid-ebb: 09:24 - 11:23$ Mid-flood: 13:05 - 16:35		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 09:50 - 13:52 Flood Tide: 13:52 - 20:30 Monitoring Time: Mid-ebb: 10:06 - 13:36 Mid-flood: 15:26 - 18:56
10	11	12	13	14	15	16
	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: 11:11 - 16:25 Flood Tide: 04:24 - 11:11 Monitoring Time: Mid-ebb: 12:03 - 15:33 Mid-flood: 08:00 - 10:50*$		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 12:19 - 18:08 Flood Tide: 05:19 - 12:19 Monitoring Time: Mid-ebb: 13:28 - 16:58 Mid-flood: 08:00 - 10:34*$		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 13:38 - 20:43 Flood Tide: 05:54 - 13:38 Monitoring Time: Mid-ebb: 15:25 - 18:55 Mid-flood: 08:01 - 11:31*
17	18	19	20	21	22	23
		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 17:10 - 23:59 Flood Tide: 00:34 - 17:10 Monitoring Time: Mid-ebb: 17:30 - 19:00$& Mid-flood: 08:00 - 10:37*$	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: 09:25 - 12:15 Flood Tide: 12:15 - 19:11 Monitoring Time: Mid-ebb: 09:33 - 12:06$ Mid-flood: 13:58 - 17:28		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 09:29 - 13:55 Flood Tide: 13:55 - 20:42 Monitoring Time: Mid-ebb: 09:57 - 13:27 Mid-flood: 15:33 - 19:00$&
24	25	26	27	28	29	30
		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 10:08 - 15:48 Flood Tide: 15:48 - 22:38 Monitoring Time: Mid-ebb: 11:13 - 14:43 Mid-flood: 16:08 - 19:00$&		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 10:50 - 17:06 Flood Tide: 04:32 - 10:50 Monitoring Time: Mid-ebb: 12:13 - 15:43 Mid-flood: 08:00 - 10:31*$ Daytime Noise monitoring for NM1, NM2-A, NM3 & NM4		
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	ACTION			
	ET	IEC	ER	Contractor
Action Level	1. Notify IEC, ER and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, ER and Contractor; 4. Discuss with the Contractor and formulate remedial measures; and 5. Increase monitoring frequency to check mitigation effectiveness.	1. Review the analysed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; and 3. 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; and 4. Ensure remedial measures are properly implemented.	1. Submit noise mitigation proposals to IEC, ET and ER; and 2. Implement noise mitigation proposals.
Limit Level	1. Identify source; 2. Inform IEC, ER, EPD and Contractor; 3. Repeat measurements to confirm findings; 4. Increase monitoring frequency; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Inform IEC, ER and EPD the causes and actions taken for the exceedances; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; and 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; and 3. 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.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; and 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Appendix E
Noise Monitoring Equipment Calibration Certificate

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 – 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: 10 November 2023

Date of calibration: 17 November 2023

Date of NEXT calibration: 16 November 2024

Calibrated by: _____
Calibration Technician

Certified by: _____
Mr. Ng Yan Wa
Laboratory Manager

Date of issue: 17 November 2023

ACOUSTICS AND AIR TESTING LABORATORY CO LTD (A+A)*L

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

1. *Calibration Precaution:*

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

2. *Calibration Conditions:*

Air Temperature:	23.5 **°C**
Air Pressure:	1004 **hPa**
Relative Humidity:	24.4 **%**

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
25-120	dBA SPL	Fast	94	1000	93.9	±0.4

Linearity

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
25-120	dBA SPL	Fast	94	1000	94.0	Ref
			104		103.9	±0.3
			114		113.9	±0.3

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

Frequency Response

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
25-120	dBA SPL	Fast	94	31.5	54.8	-39.4 ±2.0
				63	67.9	-26.2 ±1.5
				125	77.9	-16.1 ±1.5
				250	85.3	-8.6 ±1.4
				500	90.7	-3.2 ±1.4
				1000	93.9	Ref
				2000	94.8	+1.2 ±1.6
				4000	93.9	+1.0 ±1.6
				8000	90.0	-1.1+2.1; -3.1

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	± 0.05
	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.

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

Certificate of Calibration

for

Description:	***Sound Level Meter***
Manufacturer:	***SVANTEK***
Type No.:	***SVAN 971 (Serial No.: 103482)***
Microphone:	***ACO 7052E (Serial No.: 79788)***
Preamplifier:	***SV-18 (Serial No.: 103880)***

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: 30 March 2023

Date of calibration: 4 April 2023

Date of NEXT calibration: 3 April 2024

Calibrated by: _____
Calibration Technician

Certified by: _____
Mr. Ng Yan Wa
Laboratory Manager

Date of issue: **4 April 2023**

ACOUSTICS AND AIR TESTING LABORATORY (A+A)*L CO. LTD.

Certificate No.: APJ22-158-CC002

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

1. *Calibration Precaution:*

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.

- The results presented are the mean of 3 measurements at each calibration point.

2. *Calibration Conditions:*

Air Temperature:	21.7 °C
Air Pressure:	1003 hPa
Relative Humidity:	64.6 %

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
35-138.4	dBA SPL	Fast	94	1000	94.0	±0.4

Linearity

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
35-138.4	dBA SPL	Fast	94	1000	94.0	Ref
			104		104.0	±0.3
			114		114.0	±0.3

Time Weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
35-138.4	dBA SPL	Fast	94	1000	94.0	Ref
		Slow			94.0	±0.3

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

Frequency Response

Linear Response

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
35-138.4	dB SPL	Fast	94	31.5	94.5	±2.0
				63	94.4	±1.5
				125	94.3	±1.5
				250	94.3	±1.4
				500	94.2	±1.4
				1000	94.0	Ref
				2000	93.5	±1.6
				4000	93.1	±1.6

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
35-138.4	dBA SPL	Fast	94	31.5	55.2	-39.4 ±2.0
				63	68.2	-26.2 ±1.5
				125	78.2	-16.1 ±1.5
				250	85.6	-8.6 ±1.4
				500	91.0	-3.2 ±1.4
				1000	94.0	Ref
				2000	94.7	+1.2 ±1.6
				4000	94.2	+1.0 ±1.6

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
35-138.4	dBC SPL	Fast	94	31.5	91.5	-3.0 ±2.0
				63	93.6	-0.8 ±1.5
				125	94.1	-0.2 ±1.5
				250	94.2	-0.0 ±1.4
				500	94.2	-0.0 ±1.4
				1000	94.0	Ref
				2000	93.3	-0.2 ±1.6
				4000	92.4	-0.8 ±1.6

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

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	± 0.05
	125 Hz	± 0.05
	250 Hz	± 0.10
	500 Hz	± 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.05
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

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

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

Certificate of Calibration

for

Description:	***Sound Level Meter***
Manufacturer:	***RION***
Type No.:	***NL-31 (Serial No.: 00303811)***
Microphone:	***UC-53A (Serial No.: 322686)***
Preamplifier:	***NH-21 (Serial No.: 32330)***

Submitted by:

Customer:	*Acuity Sustainability Consulting Limited*
Address:	*Unit E, 12/F., Ford Glory Plaza, No. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon*

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: 27 June 2023

Date of calibration: 28 June 2023

Date of NEXT calibration: 27 June 2024

Calibrated by: _____
Calibration Technician

Certified by: _____
Mr. Ng Yan Wa
Laboratory Manager

Date of issue: **28 June 2023**

Certificate No.: APJ23-003-CC002

ACOUSTICS AND AIR TESTING LABORATORY CO. LTD. (A+A)*L

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

1. *Calibration Precaution:*

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.

- The results presented are the mean of 3 measurements at each calibration point.

2. *Calibration Conditions:*

Air Temperature:	22.5 °C
Air Pressure:	1006 hPa
Relative Humidity:	58.9 %

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, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
40-130	dBA SPL	Fast	94	1000	94.0	±0.4

Linearity

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
40-130	dBA SPL	Fast	94	1000	94.0	Ref
			104		104.0	±0.3
			114		114.0	±0.3

Time Weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
40-130	dBA SPL	Fast	94	1000	94.0	Ref
		Slow			94.0	±0.3

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

Frequency Response

Linear Response

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
40-130	dB SPL	Fast	94	31.5	94.0	±2.0
				63	94.1	±1.5
				125	94.2	±1.5
				250	94.1	±1.4
				500	94.1	±1.4
				1000	94.0	Ref
				2000	93.8	±1.6
				4000	92.8	±1.6

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
40-130	dBA SPL	Fast	94	31.5	54.9	-39.4 ±2.0
				63	67.9	-26.2 ±1.5
				125	78.0	-16.1 ±1.5
				250	85.5	-8.6 ±1.4
				500	90.9	-3.2 ±1.4
				1000	94.0	Ref
				2000	94.9	+1.2 ±1.6
				4000	93.7	+1.0 ±1.6

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
40-130	dBC SPL	Fast	94	31.5	91.1	-3.0 ±2.0
				63	93.4	-0.8 ±1.5
				125	94.0	-0.2 ±1.5
				250	94.0	-0.0 ±1.4
				500	94.0	-0.0 ±1.4
				1000	94.0	Ref
				2000	93.5	-0.2 ±1.6
				4000	91.9	-0.8 ±1.6

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

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	± 0.05
	4000 Hz	± 0.05
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

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

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

Certificate of Calibration

for

Description:	***Sound Level Calibrator***
Manufacturer:	***RION***
Type No.:	***NC-74***
Serial No.:	***34615222***

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**
☐ **Outside**

the allowable tolerance.

The test equipments used for calibration are traceable to National Standards via:
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 16 March 2023

Date of calibration: 21 March 2023

Date of NEXT calibration: 20 March 2024

Calibrated by: _____
Calibration Technician

Certified by: _____
Mr. Ng Yan Wa
Laboratory Manager

Date of issue: 21 March 2023

Certificate No.: APJ22-157-CC004

ACOUSTICS AND AIR TESTING LABORATORY CO. LTD. (A+A)*L

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

1. *Calibration Precautions:*

- 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 Specifications:*

Calibration check

3. *Calibration Conditions:*

Air Temperature:	22.1 °C
Air Pressure:	1006 hPa
Relative Humidity:	61.7 %

4. *Calibration Equipment:*

Test Equipment	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV220120	HOKLAS

5. *Calibration Results*

5.1 Sound Pressure Level

Nominal value dB	Accept lower level dB	Accept upper level dB	Measured value dB
94.0	93.6	94.4	93.9

Note:
The values given in this certification only related to the values measured at the time of the calibration.

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

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

Certificate of Calibration

for

Description:	***Sound Level Calibrator***
Manufacturer:	***RION***
Type No.:	***NC-75***
Serial No.:	***34724245***

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**
☐ **Outside**

the allowable tolerance.

The test equipments used for calibration are traceable to National Standards via:
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 27 July 2023

Date of calibration: 3 August 2023

Date of NEXT calibration: 2 August 2024

Calibrated by: _____
Calibration Technician

Certified by: _____
Mr. Ng Yan Wa
Laboratory Manager

Date of issue: **3 August 2023**

Certificate No.: APJ23-049-CC003

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

1. *Calibration Precautions:*

- 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 Specifications:*

Calibration check

3. *Calibration Conditions:*

Air Temperature:	22.6 °C
Air Pressure:	1006 hPa
Relative Humidity:	52.9 %

4. *Calibration Equipment:*

Test Equipment	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV220120	HOKLAS

5. *Calibration Results*

5.1 Sound Pressure Level

Nominal value dB	Accept lower level dB	Accept upper level dB	Measured value dB
94.0	93.6	94.4	94.0

Note:
The values given in this certification only related to the values measured at the time of the calibration.

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

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

AC9

Certificate of Calibration

for

Description:	***Sound Level Calibrator***
Manufacturer:	***RION***
Type No.:	***NC-75***
Serial No.:	***34724243***

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**
☐ **Outside**

the allowable tolerance.

The test equipments used for calibration are traceable to National Standards via:
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 27 July 2023

Date of calibration: 3 August 2023

Date of NEXT calibration: 2 August 2024

Calibrated by: _____
Calibration Technician

Certified by: _____
Mr. Ng Yan Wa
Laboratory Manager

Date of issue: **3 August 2023**

ACOUSTICS AND AIR TESTING LABORATORY CO. LTD. (A+A)*L

Certificate No.: APJ23-049-CC005

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

1. *Calibration Precautions:*

- 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 Specifications:*

Calibration check

3. *Calibration Conditions:*

Air Temperature:	22.6 °C
Air Pressure:	1006 hPa
Relative Humidity:	52.9 %

4. *Calibration Equipment:*

Test Equipment	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV220120	HOKLAS

5. *Calibration Results*

5.1 Sound Pressure Level

Nominal value dB	Accept lower level dB	Accept upper level dB	Measured value dB
94.0	93.6	94.4	94.0

Note:
The values given in this certification only related to the values measured at the time of the calibration.

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

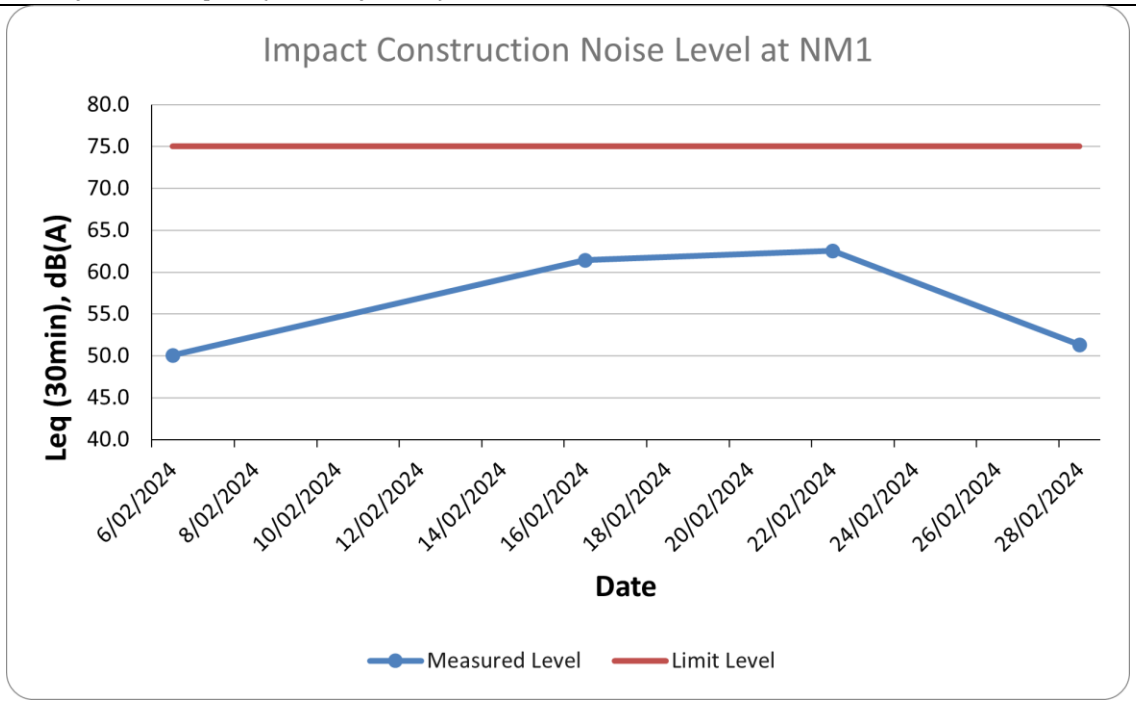
Appendix F
Noise Monitoring Results

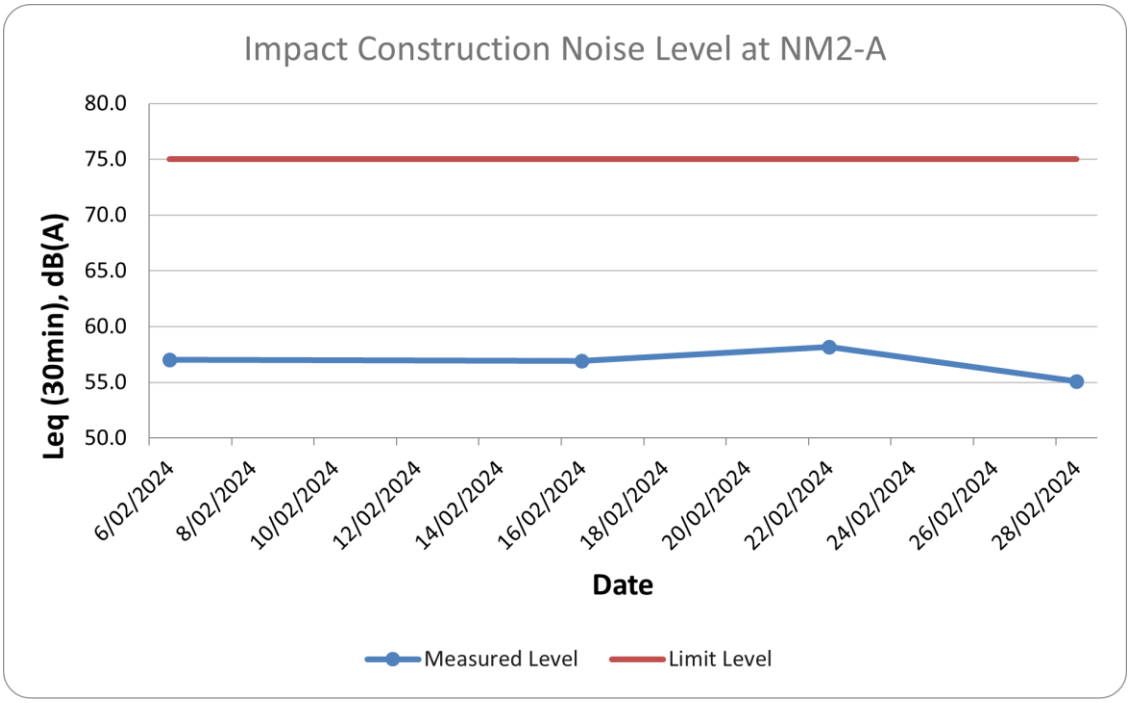
Location NM1 - Village house in Lei Yue Mun Hoi Pong Road Central					
Date	Time	Weather	Unit: dB (A) (30-mins) Measured Noise Level		
			L_{eq}	L_{10}	L_{90}
2024-02-06	09:38	Fine	50.1	54.3	45.0
2024-02-16	09:56	Fine	61.4	64.3	58.5
2024-02-22	09:30	Sunny	62.6	65.2	58.2
2024-02-28	13:26	Fine	51.4	53.5	48.6

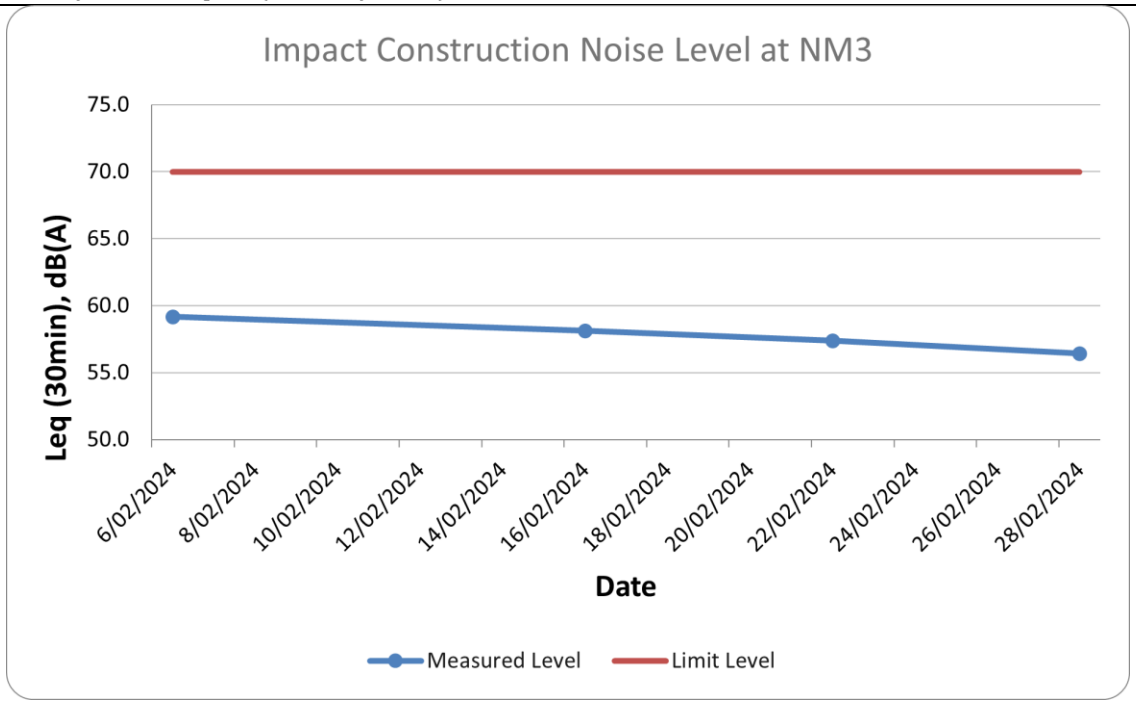
Location NM2A - No.79B, Lei Yue Mun Hoi Pong Road East					
Date	Time	Weather	Unit: dB (A) (30-mins) Measured Noise Level		
			L_{eq}	L_{10}	L_{90}
2024-02-06	10:13	Fine	57.0	59.3	51.0
2024-02-16	11:05	Fine	56.9	59.3	54.4
2024-02-22	10:05	Sunny	58.2	60.5	54.6
2024-02-28	14:36	Fine	55.1	58.9	48.0

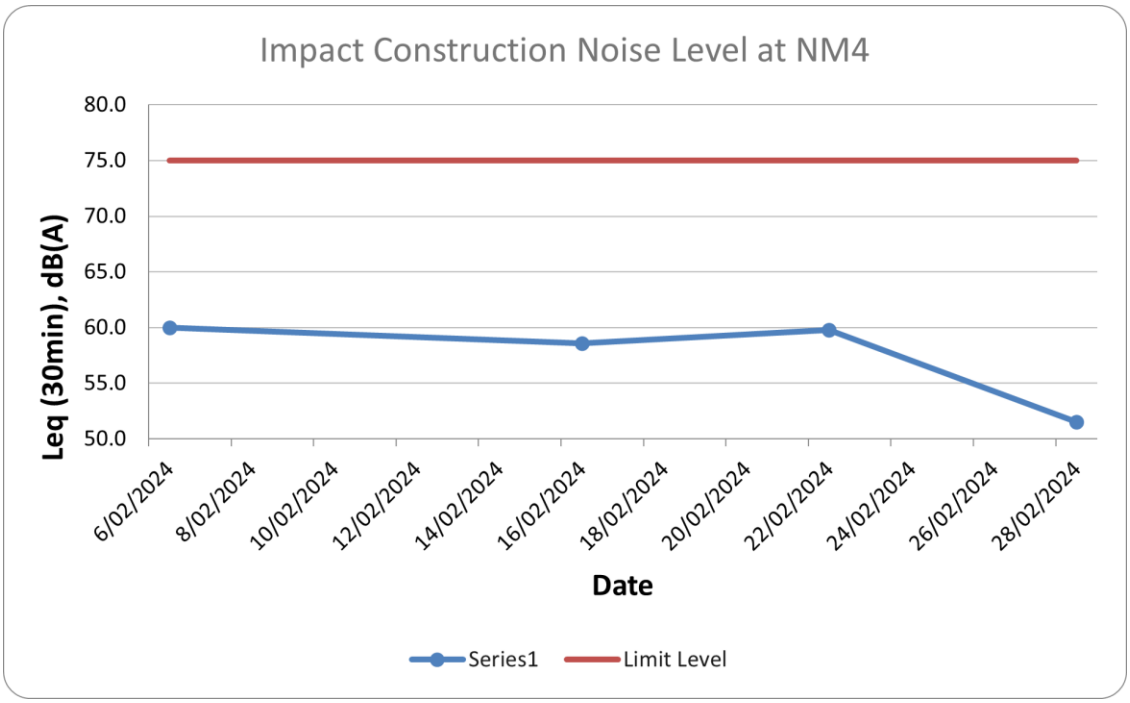
Location NM3 - Jockey Club Lei Yue Mun Plus					
Date	Time	Weather	Unit: dB (A) (30-mins) Measured Noise Level		
			L_{eq}	L_{10}	L_{90}
2024-02-06	09:04	Fine	59.2	61.9	54.9
2024-02-16	09:20	Fine	58.1	60.6	54.8
2024-02-22	10:40	Sunny	57.4	60.1	55.0
2024-02-28	12:51	Fine	56.4	59.0	53.0

Location NM4 - No. 21C, Lei Yue Mun Hoi Pong Road East					
Date	Time	Weather	Unit: dB (A) (30-mins) Measured Noise Level		
			L_{eq}	L_{10}	L_{90}
2024-02-06	10:49	Fine	60.0	64.1	48.4
2024-02-16	10:32	Fine	58.6	61.1	56.2
2024-02-22	11:15	Sunny	59.8	62.8	55.4
2024-02-28	14:01	Fine	51.5	53.8	46.8









Appendix G
Event/Action Plan for Water Quality Exceedance

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Action level being exceeded by one sampling day	1. Repeat *in-situ* measurement to confirm findings; 2. Identify reasons for non-compliance and source(s) of impact; 3. Inform IEC and Contractor; 4. Check monitoring data, all plants, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC and Contractor; 6. (The above actions should be taken within 1 working day after the exceedance is identified) 7. Repeat measurement on next day of exceedance.	1. Discuss with ET and Contractor 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)	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)	1. Inform the ER and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plants and equipment; 4. Consider changes of working methods; 5. Discuss with ET and IEC and propose mitigation measures to IEC and ER; 6. Implement the agreed mitigation measures. 7. (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	1. Repeat *in-situ* measurement to confirm findings; 2. Identify reasons for non-compliance and source(s) of impact; 3. Inform IEC and Contractor; 4. Check monitoring data, all plants, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC and Contractor; 6. Ensure mitigation measures are implemented; 7. Prepare to increase the monitoring frequency to daily; 8. (The above actions should be taken within 1 working day after the exceedance is identified) 9. Repeat measurement on next working day of exceedance.	1. Discuss with ET and Contractor 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)	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)	1. Inform the ER and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plants and equipment; 4. Consider changes of working methods; 5. Discuss with ET and IEC and propose mitigation measures to IEC and ER within 3 working days; 6. Implement the agreed mitigation measures. 7. (The above actions should be taken within 1 working day after the exceedance is identified)

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Limit level being exceeded by one sampling day	1. Repeat *in-situ* measurement to confirm findings; 2. Identify reasons for non-compliance and source(s) of impact; 3. Inform IEC, Contractor and EPD; 4. Check monitoring data, all plants, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC, ER and Contractor; 6. Ensure mitigation measures are implemented; 7. Increase the monitoring frequency to daily until no exceedance of Limit level. 8. (The above actions should be taken within 1 working day after the exceedance is identified)	1. Discuss with ET and Contractor 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)	1. Discuss with IEC, ET and Contractor on the proposed mitigation measures; 2. Request Contractor to critically review the working methods; 3. Make agreement on the mitigation measures to be implemented; 4. Assess the effectiveness of the implemented mitigation measures. 5. (The above actions should be taken within 1 working day after the exceedance is identified)	1. Inform the ER and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plants and equipment; 4. Consider changes of working methods; 5. Discuss with ET, IEC and ER and Propose mitigation measures to IEC and ER within 3 working days; 6. Implement the agreed mitigation measures
Limit level being exceeded by more than one consecutive sampling day	1. Repeat *in-situ* measurement to confirm findings; 2. Identify reasons for non-compliance and source(s) of impact; 3. Inform IEC, Contractor and EPD; 4. Check monitoring data, all plants, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC, ER and Contractor; 6. Ensure mitigation measures are implemented; 7. Increase the monitoring frequency to daily until no exceedance of Limit level for 2 consecutive days. 8. (The above actions should be taken within 1 working day after the exceedance is identified)	1. Discuss with ET and Contractor 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)	1. Discuss with IEC, ET and Contractor on the proposed mitigation measures; 2. Request Contractor to critically review the working methods; 3. Make agreement on the mitigation measures to be implemented; 4. Assess the effectiveness of the implemented mitigation measures. 5. 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. 6. (The above actions should be taken within 1 working day after the exceedance is identified)	1. Inform the ER and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plants and equipment; 4. Consider changes of working methods; 5. Discuss with ET, IEC and ER and Propose mitigation measures to IEC and ER within 3 working days; 6. Implement the agreed mitigation measures; 7. 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-BC120002
Date of Issue : 05 December 2023

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 :	01 December 2023
Date of Calibration :	04 December 2023
Date of Next Calibration :	03 March 2024
Request No. :	D-BC120002

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

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

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.13	0.13	Satisfactory
7.42	7.45	0.03	Satisfactory
10.01	10.02	0.01	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
36	35.5	-0.5	Satisfactory
25	24.8	-0.2	Satisfactory
15	15.1	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	9.57	-4.30	Satisfactory
20	19.14	-4.30	Satisfactory
30	29.99	-0.03	Satisfactory

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

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun-ning
Assistant Manager

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-BC120002
Date of Issue : 05 December 2023

(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
7.99	8.35	0.36	Satisfactory
5.00	5.10	0.10	Satisfactory
2.58	2.40	-0.18	Satisfactory
0.10	0.20	0.10	Satisfactory

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

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	0.50	--	Satisfactory
10	9.88	-1.2	Satisfactory
20	18.35	-8.2	Satisfactory
100	95.10	-4.9	Satisfactory
800	736.55	-7.9	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

Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (?)	Turbidty (NTU)	SS	Current Velocity (m/s)	Current Direction	Remark
C1	20240201	Cloudy	Moderate	Mid-Ebb	Surface	1	16:51	8.19	8.21	33.22	18.87	2.95	4	0.275	SE	/
C1	20240201	Cloudy	Moderate	Mid-Ebb	Surface	1	16:51	8.19	8.22	33.2	18.87	2.98	4	0.293	SE	/
C1	20240201	Cloudy	Moderate	Mid-Ebb	Middle	10.2	16:50	8.21	8.18	33.18	18.82	3.22	5	0.265	E	/
C1	20240201	Cloudy	Moderate	Mid-Ebb	Middle	10.2	16:50	8.13	8.19	33.22	18.84	3.14	3	0.273	SE	/
C1	20240201	Cloudy	Moderate	Mid-Ebb	Bottom	19.4	16:49	8.2	8.22	33.22	18.87	2.95	5	0.280	SE	/
C1	20240201	Cloudy	Moderate	Mid-Ebb	Bottom	19.4	16:49	8.14	8.24	33.23	18.81	3.23	4	0.274	SE	/
C2	20240201	Cloudy	Moderate	Mid-Ebb	Surface	1	17:55	8.84	8.17	33.79	18.94	2.57	4	0.289	E	/
C2	20240201	Cloudy	Moderate	Mid-Ebb	Surface	1	17:55	8.84	8.14	33.78	18.94	2.44	4	0.292	E	/
C2	20240201	Cloudy	Moderate	Mid-Ebb	Middle	11.65	17:54	8.83	8.14	33.79	18.92	2.69	4	0.284	E	/
C2	20240201	Cloudy	Moderate	Mid-Ebb	Middle	11.65	17:54	8.82	8.16	33.79	18.93	2.63	5	0.278	SE	/
C2	20240201	Cloudy	Moderate	Mid-Ebb	Bottom	22.3	17:53	8.85	8.14	33.81	18.89	2.77	3	0.264	E	/
C2	20240201	Cloudy	Moderate	Mid-Ebb	Bottom	22.3	17:53	8.78	8.18	33.84	18.9	2.82	5	0.277	E	/
M1	20240201	Cloudy	Moderate	Mid-Ebb	Surface	1	17:24	7.99	8.2	33.99	18.78	2.52	5	0.268	SE	/
M1	20240201	Cloudy	Moderate	Mid-Ebb	Surface	1	17:24	8.07	8.22	34.01	18.75	2.55	4	0.271	SE	/
M1	20240201	Cloudy	Moderate	Mid-Ebb	Middle	3.25	17:23	8.05	8.23	33.95	18.81	2.29	3	0.263	SE	/
M1	20240201	Cloudy	Moderate	Mid-Ebb	Middle	3.25	17:23	8.05	8.2	33.98	18.81	2.63	5	0.297	SE	/
M1	20240201	Cloudy	Moderate	Mid-Ebb	Bottom	5.5	17:22	8.03	8.23	34.01	18.75	2.36	4	0.268	SE	/
M1	20240201	Cloudy	Moderate	Mid-Ebb	Bottom	5.5	17:22	8.05	8.23	33.97	18.81	2.25	5	0.276	E	/
M2	20240201	Cloudy	Moderate	Mid-Ebb	Surface	1	17:12	8.38	8.25	33.69	18.85	1.78	5	0.275	E	/
M2	20240201	Cloudy	Moderate	Mid-Ebb	Surface	1	17:12	8.37	8.22	33.72	18.8	2.01	3	0.281	SE	/
M2	20240201	Cloudy	Moderate	Mid-Ebb	Middle	7.05	17:11	8.42	8.22	33.73	18.83	1.64	4	0.267	SE	/
M2	20240201	Cloudy	Moderate	Mid-Ebb	Middle	7.05	17:11	8.42	8.22	33.69	18.81	1.5	6	0.287	SE	/
M2	20240201	Cloudy	Moderate	Mid-Ebb	Bottom	13.1	17:10	8.38	8.26	33.72	18.85	1.8	5	0.280	SE	/
M2	20240201	Cloudy	Moderate	Mid-Ebb	Bottom	13.1	17:10	8.4	8.23	33.74	18.84	1.87	6	0.275	SE	/
M3	20240201	Cloudy	Moderate	Mid-Ebb	Surface	1	17:37	8.4	8.27	34.34	18.81	2.04	4	0.275	SE	/
M3	20240201	Cloudy	Moderate	Mid-Ebb	Surface	1	17:37	8.37	8.22	34.32	18.81	1.76	5	0.273	SE	/
M3	20240201	Cloudy	Moderate	Mid-Ebb	Middle	3.6	17:36	8.32	8.26	34.33	18.85	1.81	4	0.266	SE	/
M3	20240201	Cloudy	Moderate	Mid-Ebb	Middle	3.6	17:36	8.39	8.26	34.33	18.85	1.79	6	0.280	SE	/
M3	20240201	Cloudy	Moderate	Mid-Ebb	Bottom	6.2	17:35	8.36	8.22	34.3	18.83	1.82	6	0.270	SE	/
M3	20240201	Cloudy	Moderate	Mid-Ebb	Bottom	6.2	17:35	8.34	8.22	34.31	18.81	1.96	5	0.285	E	/
M4	20240201	Cloudy	Moderate	Mid-Ebb	Surface	1	18:26	7.6	8.32	32.51	18.75	2.04	6	0.280	E	/
M4	20240201	Cloudy	Moderate	Mid-Ebb	Surface	1	18:26	7.58	8.32	32.55	18.75	2.05	6	0.292	SE	/
M4	20240201	Cloudy	Moderate	Mid-Ebb	Bottom	4.2	18:25	7.6	8.32	32.53	18.75	2.12	6	0.264	E	/
M4	20240201	Cloudy	Moderate	Mid-Ebb	Bottom	4.2	18:25	7.61	8.31	32.53	18.76	2.03	6	0.299	SE	/
C1	20240203	Cloudy	Moderate	Mid-Ebb	Surface	1	16:51	7.91	8.18	33.77	18.83	3.69	3	0.282	SE	/
C1	20240203	Cloudy	Moderate	Mid-Ebb	Surface	1	16:51	7.95	8.19	33.76	18.82	3.79	4	0.275	SE	/
C1	20240203	Cloudy	Moderate	Mid-Ebb	Middle	10.5	16:50	7.95	8.19	33.77	18.8	3.68	3	0.276	E	/
C1	20240203	Cloudy	Moderate	Mid-Ebb	Middle	10.5	16:50	7.9	8.19	33.82	18.83	3.8	4	0.287	SE	/
C1	20240203	Cloudy	Moderate	Mid-Ebb	Bottom	20	16:49	7.94	8.19	33.84	18.79	3.76	5	0.281	SE	/
C1	20240203	Cloudy	Moderate	Mid-Ebb	Bottom	20	16:49	8	8.19	33.88	18.79	3.77	3	0.264	SE	/
C2	20240203	Cloudy	Moderate	Mid-Ebb	Surface	1	18:01	8.58	8.34	33.3	18.98	3.27	3	0.292	SE	/
C2	20240203	Cloudy	Moderate	Mid-Ebb	Surface	1	18:01	8.6	8.35	33.34	18.97	3.47	2.5	0.300	E	/
C2	20240203	Cloudy	Moderate	Mid-Ebb	Middle	12.6	18:00	8.6	8.33	33.34	18.99	3.37	4	0.274	SE	/
C2	20240203	Cloudy	Moderate	Mid-Ebb	Middle	12.6	18:00	8.62	8.37	33.39	18.95	3.44	5	0.298	E	/
C2	20240203	Cloudy	Moderate	Mid-Ebb	Bottom	24.2	17:59	8.52	8.37	33.31	18.98	3.53	2.5	0.274	SE	/
C2	20240203	Cloudy	Moderate	Mid-Ebb	Bottom	24.2	17:59	8.54	8.39	33.46	18.98	3.42	3	0.267	E	/
M1	20240203	Cloudy	Moderate	Mid-Ebb	Surface	1	17:22	7.97	8.35	34.3	19.02	3.06	2.5	0.281	SE	/
M1	20240203	Cloudy	Moderate	Mid-Ebb	Surface	1	17:22	7.97	8.36	34.28	19.04	3.09	3	0.288	SE	/
M1	20240203	Cloudy	Moderate	Mid-Ebb	Middle	3.5	17:21	7.96	8.35	34.37	19.01	3.5	3	0.266	E	/
M1	20240203	Cloudy	Moderate	Mid-Ebb	Middle	3.5	17:21	8.07	8.36	34.39	19.01	3.08	2.5	0.287	SE	/
M1	20240203	Cloudy	Moderate	Mid-Ebb	Bottom	6	17:20	8.02	8.35	34.32	19.05	3.13	3	0.292	SE	/
M1	20240203	Cloudy	Moderate	Mid-Ebb	Bottom	6	17:20	8.02	8.38	34.34	19.02	3.27	3	0.285	SE	/
M2	20240203	Cloudy	Moderate	Mid-Ebb	Surface	1	17:08	8.89	8.18	33.11	19.04	2.99	4	0.272	E	/
M2	20240203	Cloudy	Moderate	Mid-Ebb	Surface	1	17:08	8.87	8.18	33.15	19.05	3.27	4	0.265	SE	/
M2	20240203	Cloudy	Moderate	Mid-Ebb	Middle	6.15	17:07	8.79	8.18	33.17	19.05	2.98	3	0.284	SE	/
M2	20240203	Cloudy	Moderate	Mid-Ebb	Middle	6.15	17:07	8.81	8.18	33.2	19.01	2.77	3	0.286	E	/
M2	20240203	Cloudy	Moderate	Mid-Ebb	Bottom	11.3	17:06	8.89	8.18	33.14	19.05	2.86	4	0.264	E	/
M2	20240203	Cloudy	Moderate	Mid-Ebb	Bottom	11.3	17:06	8.89	8.22	33.24	19.02	3.16	3	0.300	SE	/
M3	20240203	Cloudy	Moderate	Mid-Ebb	Surface	1	17:33	8.07	8.32	33.35	18.89	3.35	4	0.294	SE	/
M3	20240203	Cloudy	Moderate	Mid-Ebb	Surface	1	17:33	8.12	8.33	33.26	18.89	3.36	4	0.293	E	/
M3	20240203	Cloudy	Moderate	Mid-Ebb	Middle	3.4	17:32	8.04	8.3	33.26	18.88	3.42	5	0.283	SE	/
M3	20240203	Cloudy	Moderate	Mid-Ebb	Middle	3.4	17:32	8.1	8.32	33.32	18.84	3.38	3	0.263	E	/
M3	20240203	Cloudy	Moderate	Mid-Ebb	Bottom	5.8	17:31	8.13	8.28	33.29	18.87	3.03	4	0.289	SE	/
M3	20240203	Cloudy	Moderate	Mid-Ebb	Bottom	5.8	17:31	8.04	8.31	33.35	18.84	3.06	3	0.284	SE	/
M4	20240203	Cloudy	Moderate	Mid-Ebb	Surface	1	18:27	8.56	8.28	32.97	18.96	2.26	4	0.290	E	/
M4	20240203	Cloudy	Moderate	Mid-Ebb	Surface	1	18:27	8.53	8.29	33.07	18.95	2.51	3	0.272	SE	/
M4	20240203	Cloudy	Moderate	Mid-Ebb	Bottom	3.8	18:26	8.52	8.26	33.01	18.95	2.71	2.5	0.263	SE	/
M4	20240203	Cloudy	Moderate	Mid-Ebb	Bottom	3.8	18:26	8.54	8.27	32.97	18.92	2.76	3	0.289	E	/
C1	20240205	Cloudy	Moderate	Mid-Ebb	Surface	1	17:05	8.77	8.26	33.34	19.37	3.67	2.5	0.300	E	/
C1	20240205	Cloudy	Moderate	Mid-Ebb	Surface	1	17:05	8.72	8.28	33.36	19.42	3.49	2.5	0.300	SE	/
C1	20240205	Cloudy	Moderate	Mid-Ebb	Middle	10.95	17:04	8.65	8.31	33.42	19.41	3.68	3	0.293	SE	/
C1	20240205	Cloudy	Moderate	Mid-Ebb	Middle	10.95	17:04	8.79	8.24	33.29	19.42	3.78	2.5	0.273	E	/
C1	20240205	Cloudy	Moderate	Mid-Ebb	Bottom	20.9	17:03	8.74	8.23	33.27	19.37	3.73	2.5	0.264	SE	/
C1	20240205	Cloudy	Moderate	Mid-Ebb	Bottom	20.9	17:03	8.67	8.23	33.48	19.37	3.88	3	0.294	SE	/
C2	20240205	Cloudy	Moderate	Mid-Ebb	Surface	1	18:11	8.72	8.38	32.79	19.3	3.48	2.5	0.264	SE	/
C2	20240205	Cloudy	Moderate	Mid-Ebb	Surface	1	18:11	8.84	8.41	32.88	19.25	3.33	2.5	0.273	E	/
C2	20240205	Cloudy	Moderate	Mid-Ebb	Middle	10.95	18:10	8.76	8.39	32.82	19.25	3.41	2.5	0.267	SE	/
C2	20240205	Cloudy	Moderate	Mid-Ebb	Middle	10.95	18:10	8.79	8.41	32.88	19.3	3.24	2.5	0.291	SE	/
C2	20240205	Cloudy	Moderate	Mid-Ebb	Bottom	20.9	18:09	8.78	8.37	32.81	19.26	3.53	3	0.281	E	/
C2	20240205	Cloudy	Moderate	Mid-Ebb	Bottom	20.9	18:09	8.72	8.33	32.75	19.25	3.25	3	0.268	E	/
M1	20240205	Cloudy	Moderate	Mid-Ebb	Surface	1	17:32	9.12	8.34	33.56	19.51	2.77	2.5	0.280	SE	/
M1	20240205	Cloudy	Moderate	Mid-Ebb	Surface	1	17:32	9.13	8.31	33.64	19.41	2.9	3	0.287	SE	/
M1	20240205	Cloudy	Moderate	Mid-Ebb	Middle	3.65	17:31	9.07	8.31	33.61	19.42	3.11	2.5	0.279	SE	/
M1	20240205	Cloudy	Moderate	Mid-Ebb	Middle	3.65	17:31	9.09	8.31	33.59	19.48	2.73	2.5	0.298	SE	/
M1	20240205	Cloudy	Moderate	Mid-Ebb	Bottom	6.3	17:30	9.12	8.33	33.64	19.51	3.15	3	0.287	E	/
M1	20240205	Cloudy	Moderate	Mid-Ebb	Bottom	6.3	17:30	9.02	8.32	33.76	19.4	2.92	2.5	0.274	SE	/
M2	20240205	Cloudy	Moderate	Mid-Ebb	Surface	1	17:46	8.37	8.25	33.16	19.28	2.43	3	0.284	SE	/
M2	20240205	Cloudy	Moderate	Mid-Ebb	Surface	1	17:46	8.34	8.23	33.05	19.3	2.33	2.5	0.270	SE	/
M2	20240205	Cloudy	Moderate	Mid-Ebb	Middle	6.25	17:45	8.3	8.2	33.03	19.26	2.3	3	0.300	SE	/
M2	20240205	Cloudy	Moderate	Mid-Ebb	Middle	6.25	17:45	8.35	8.24	33.12	19.31	2.28	3	0.297	SE	/
M2	20240205	Cloudy	Moderate	Mid-Ebb	Bottom	11.5	17:44	8.3	8.24	33.09	19.39	2.2	3	0.279	SE	/
M2	20240205	Cloudy	Moderate	Mid-Ebb	Bottom	11.5	17:44	8.33	8.25	33.07	19.31	2.52	3	0.275	SE	/
M3	20240205	Cloudy	Moderate	Mid-Ebb	Surface	1	17:19	8.86	8.3	32.64	19.35	2.32	3	0.277	E	/
M3	20240205	Cloudy	Moderate	Mid-Ebb	Surface	1	17:19	8.91	8.29	32.61	19.37	2.43	4	0.285	SE	/
M3	20240205	Cloudy	Moderate	Mid-Ebb	Middle	3.5	17:18	8.87	8.33	32.54	19.44	2.16	4	0.266	E	/
M3	20240205	Cloudy	Moderate	Mid-Ebb	Middle	3.5	17:18	8.81	8.28	32.46	19.44	2.47	3	0.296	SE	/
M3	20240205	Cloudy	Moderate	Mid-Ebb	Bottom	6	17:17	8.87	8.27	32.55	19.46	2.02	3	0.273	SE	/
M3	20240205	Cloudy	Moderate	Mid-Ebb	Bottom	6	17:17	8.88	8.31	32.54	19.39	2.18	2.5	0.296	SE	/
M4	20240205	Cloudy	Moderate	Mid-Ebb	Surface	1	18:35	8.57	8.39	32.9	19.42	3.04	2.5	0.284	SE	/
M4	20240205	Cloudy	Moderate	Mid-Ebb	Surface	1	18:35	8.45	8.32	32.93	19.39	3.26	2.5	0.275	E	/
M4	20240205	Cloudy	Moderate	Mid-Ebb	Bottom	3.7	18:34	8.5	8.34	32.87	19.37	2.9	3	0.268	SE	/
M4	20240205	Cloudy	Moderate	Mid-Ebb	Bottom	3.7	18:34	8.54	8.35	32.99	19.35	2.9	3	0.265	E	/

C1	20240207	Cloudy	Moderate	Mid-Ebb	Surface	1	18:39	8.29	8	32.28	19.05	3.83	2.5	0.290	SE	/
C1	20240207	Cloudy	Moderate	Mid-Ebb	Surface	1	18:39	8.36	7.93	32.28	19.11	3.76	3	0.300	SE	/
C1	20240207	Cloudy	Moderate	Mid-Ebb	Middle	11.05	18:38	8.3	7.96	32.39	19.15	4.06	3	0.284	E	/
C1	20240207	Cloudy	Moderate	Mid-Ebb	Middle	11.05	18:38	8.38	7.99	32.27	19.06	3.94	2.5	0.294	E	/
C1	20240207	Cloudy	Moderate	Mid-Ebb	Bottom	21.1	18:37	8.37	7.96	32.31	19.12	3.85	3	0.272	E	/
C1	20240207	Cloudy	Moderate	Mid-Ebb	Bottom	21.1	18:37	8.35	8	32.29	19.05	3.96	3	0.286	E	/
C2	20240207	Cloudy	Moderate	Mid-Ebb	Surface	1	19:35	7.86	8.08	33.56	19.17	3.51	3	0.282	SE	/
C2	20240207	Cloudy	Moderate	Mid-Ebb	Surface	1	19:35	7.81	8.13	33.52	19.07	3.64	3	0.264	E	/
C2	20240207	Cloudy	Moderate	Mid-Ebb	Middle	12.55	19:34	7.87	8.17	33.64	19.17	3.57	2.5	0.300	E	/
C2	20240207	Cloudy	Moderate	Mid-Ebb	Middle	12.55	19:34	7.84	8.12	33.6	19.08	3.22	4	0.264	SE	/
C2	20240207	Cloudy	Moderate	Mid-Ebb	Bottom	24.1	19:33	7.85	8.11	33.59	19.11	3.65	3	0.295	SE	/
C2	20240207	Cloudy	Moderate	Mid-Ebb	Bottom	24.1	19:33	7.8	8.17	33.61	19.08	3.61	3	0.269	E	/
M1	20240207	Cloudy	Moderate	Mid-Ebb	Surface	1	19:04	7.72	8.18	33.05	19.07	3.14	3	0.291	SE	/
M1	20240207	Cloudy	Moderate	Mid-Ebb	Surface	1	19:04	7.65	8.09	33.04	19.08	3.3	2.5	0.284	SE	/
M1	20240207	Cloudy	Moderate	Mid-Ebb	Middle	3.35	19:03	7.65	8.18	33.02	19.06	3.15	2.5	0.272	E	/
M1	20240207	Cloudy	Moderate	Mid-Ebb	Middle	3.35	19:03	7.73	8.11	33.08	19.03	3.12	2.5	0.273	SE	/
M1	20240207	Cloudy	Moderate	Mid-Ebb	Bottom	5.7	19:02	7.66	8.09	33.06	19.03	3.21	3	0.273	SE	/
M1	20240207	Cloudy	Moderate	Mid-Ebb	Bottom	5.7	19:02	7.77	8.1	33.01	19.1	3.08	2.5	0.295	SE	/
M2	20240207	Cloudy	Moderate	Mid-Ebb	Surface	1	18:52	8.64	8.1	32.78	18.92	2.82	2.5	0.284	E	/
M2	20240207	Cloudy	Moderate	Mid-Ebb	Surface	1	18:52	8.58	8.18	32.73	18.94	2.69	2.5	0.295	E	/
M2	20240207	Cloudy	Moderate	Mid-Ebb	Middle	6.25	18:51	8.54	8.14	32.71	18.89	2.98	2.5	0.274	E	/
M2	20240207	Cloudy	Moderate	Mid-Ebb	Middle	6.25	18:51	8.67	8.11	32.71	18.91	2.63	3	0.291	SE	/
M2	20240207	Cloudy	Moderate	Mid-Ebb	Bottom	11.5	18:50	8.53	8.12	32.78	18.92	2.58	2.5	0.272	E	/
M2	20240207	Cloudy	Moderate	Mid-Ebb	Bottom	11.5	18:50	8.62	8.09	32.81	18.92	2.57	3	0.269	SE	/
M3	20240207	Cloudy	Moderate	Mid-Ebb	Surface	1	19:16	7.88	8.07	33.33	19.09	2.88	3	0.294	SE	/
M3	20240207	Cloudy	Moderate	Mid-Ebb	Surface	1	19:16	7.99	8.06	33.41	19.03	2.51	2.5	0.293	SE	/
M3	20240207	Cloudy	Moderate	Mid-Ebb	Middle	3.95	19:15	7.98	8.09	33.34	19.08	2.88	2.5	0.267	E	/
M3	20240207	Cloudy	Moderate	Mid-Ebb	Middle	3.95	19:15	7.88	8.03	33.35	19.12	2.65	3	0.286	SE	/
M3	20240207	Cloudy	Moderate	Mid-Ebb	Bottom	6.9	19:14	7.92	8.1	33.35	19.1	2.52	2.5	0.271	E	/
M3	20240207	Cloudy	Moderate	Mid-Ebb	Bottom	6.9	19:14	7.95	8.06	33.38	19.07	2.95	2.5	0.271	SE	/
M4	20240207	Cloudy	Moderate	Mid-Ebb	Surface	1	19:59	8.21	8.14	33.19	19.03	3.5	2.5	0.288	SE	/
M4	20240207	Cloudy	Moderate	Mid-Ebb	Surface	1	19:59	8.18	8.16	33.15	19.09	3.01	2.5	0.276	E	/
M4	20240207	Cloudy	Moderate	Mid-Ebb	Bottom	4	19:58	8.24	8.12	33.16	19.13	3.41	3	0.268	SE	/
M4	20240207	Cloudy	Moderate	Mid-Ebb	Bottom	4	19:58	8.23	8.19	33.21	19.04	3.2	2.5	0.297	E	/
C1	20240209	Cloudy	Moderate	Mid-Ebb	Surface	1	10:40	8.39	8.14	34.07	19.6	3.13	7	0.265	SE	/
C1	20240209	Cloudy	Moderate	Mid-Ebb	Surface	1	10:40	8.37	8.15	34.07	19.59	3.26	9	0.292	E	/
C1	20240209	Cloudy	Moderate	Mid-Ebb	Middle	10.35	10:39	8.51	8.22	34.12	19.62	3.13	9	0.300	SE	/
C1	20240209	Cloudy	Moderate	Mid-Ebb	Middle	10.35	10:39	8.46	8.18	34.08	19.57	3.22	8	0.277	SE	/
C1	20240209	Cloudy	Moderate	Mid-Ebb	Bottom	19.7	10:38	8.38	8.16	34.13	19.62	3.62	11	0.281	SE	/
C1	20240209	Cloudy	Moderate	Mid-Ebb	Bottom	19.7	10:38	8.42	8.22	34.14	19.57	3.59	10	0.266	SE	/
C2	20240209	Cloudy	Moderate	Mid-Ebb	Surface	1	11:51	8.36	8.19	33.91	19.69	2.85	2.5	0.287	SE	/
C2	20240209	Cloudy	Moderate	Mid-Ebb	Surface	1	11:51	8.32	8.1	33.86	19.7	2.86	3	0.279	SE	/
C2	20240209	Cloudy	Moderate	Mid-Ebb	Middle	10.8	11:50	8.39	8.16	33.91	19.66	2.83	9	0.297	SE	/
C2	20240209	Cloudy	Moderate	Mid-Ebb	Middle	10.8	11:50	8.27	8.14	33.88	19.7	2.77	8	0.267	SE	/
C2	20240209	Cloudy	Moderate	Mid-Ebb	Bottom	20.6	11:49	8.39	8.13	33.87	19.68	2.88	2.5	0.282	SE	/
C2	20240209	Cloudy	Moderate	Mid-Ebb	Bottom	20.6	11:49	8.39	8.13	33.89	19.66	2.97	2.5	0.290	SE	/
M1	20240209	Cloudy	Moderate	Mid-Ebb	Surface	1	11:10	7.92	8.16	33.76	19.83	2.7	2.5	0.292	E	/
M1	20240209	Cloudy	Moderate	Mid-Ebb	Surface	1	11:10	7.87	8.25	33.75	19.8	2.56	3	0.283	E	/
M1	20240209	Cloudy	Moderate	Mid-Ebb	Middle	3.4	11:09	7.93	8.21	33.7	19.81	2.44	2.5	0.281	SE	/
M1	20240209	Cloudy	Moderate	Mid-Ebb	Middle	3.4	11:09	7.92	8.18	33.73	19.84	2.44	3	0.288	E	/
M1	20240209	Cloudy	Moderate	Mid-Ebb	Bottom	5.8	11:08	7.85	8.24	33.72	19.81	2.7	3	0.283	E	/
M1	20240209	Cloudy	Moderate	Mid-Ebb	Bottom	5.8	11:08	7.93	8.2	33.75	19.78	2.48	6	0.274	SE	/
M2	20240209	Cloudy	Moderate	Mid-Ebb	Surface	1	10:58	7.89	8.18	32.52	19.8	2.83	4	0.289	SE	/
M2	20240209	Cloudy	Moderate	Mid-Ebb	Surface	1	10:58	7.84	8.25	32.49	19.79	2.45	7	0.280	SE	/
M2	20240209	Cloudy	Moderate	Mid-Ebb	Middle	7	10:57	7.76	8.22	32.51	19.78	2.76	3	0.292	SE	/
M2	20240209	Cloudy	Moderate	Mid-Ebb	Middle	7	10:57	7.87	8.24	32.54	19.79	2.86	5	0.297	E	/
M2	20240209	Cloudy	Moderate	Mid-Ebb	Bottom	13	10:56	7.83	8.18	32.5	19.76	2.63	3	0.279	SE	/
M2	20240209	Cloudy	Moderate	Mid-Ebb	Bottom	13	10:56	7.9	8.24	32.52	19.76	2.7	3	0.267	E	/
M3	20240209	Cloudy	Moderate	Mid-Ebb	Surface	1	11:22	8.27	8.38	33.87	19.8	2.68	3	0.287	SE	/
M3	20240209	Cloudy	Moderate	Mid-Ebb	Surface	1	11:22	8.34	8.31	33.9	19.83	2.98	2.5	0.268	SE	/
M3	20240209	Cloudy	Moderate	Mid-Ebb	Middle	3.8	11:21	8.33	8.38	33.9	19.79	3.14	2.5	0.269	E	/
M3	20240209	Cloudy	Moderate	Mid-Ebb	Middle	3.8	11:21	8.33	8.34	33.86	19.83	3.1	3	0.299	E	/
M3	20240209	Cloudy	Moderate	Mid-Ebb	Bottom	6.6	11:20	8.38	8.32	33.83	19.84	3.14	4	0.281	E	/
M3	20240209	Cloudy	Moderate	Mid-Ebb	Bottom	6.6	11:20	8.4	8.33	33.87	19.79	3.04	3	0.274	SE	/
M4	20240209	Cloudy	Moderate	Mid-Ebb	Surface	1	12:20	8.93	8.2	33.82	19.89	3.02	3	0.283	E	/
M4	20240209	Cloudy	Moderate	Mid-Ebb	Surface	1	12:20	8.92	8.18	33.83	19.83	3.07	3	0.287	SE	/
M4	20240209	Cloudy	Moderate	Mid-Ebb	Bottom	3.8	12:19	8.86	8.14	33.85	19.83	2.78	2.5	0.269	SE	/
M4	20240209	Cloudy	Moderate	Mid-Ebb	Bottom	3.8	12:19	8.91	8.16	33.86	19.88	2.73	2.5	0.301	E	/
C1	20240212	Sunny	Moderate	Mid-Ebb	Surface	1	12:31	8.72	8.3	33.6	20	3.06	3	0.283	SE	/
C1	20240212	Sunny	Moderate	Mid-Ebb	Surface	1	12:31	8.72	8.31	33.51	19.99	3.33	3	0.274	SE	/
C1	20240212	Sunny	Moderate	Mid-Ebb	Middle	9.55	12:30	8.65	8.28	33.46	19.98	3.05	3	0.282	E	/
C1	20240212	Sunny	Moderate	Mid-Ebb	Middle	9.55	12:30	8.72	8.3	33.55	19.99	3.37	3	0.263	SE	/
C1	20240212	Sunny	Moderate	Mid-Ebb	Bottom	18.1	12:29	8.67	8.3	33.61	20	3.45	3	0.292	SE	/
C1	20240212	Sunny	Moderate	Mid-Ebb	Bottom	18.1	12:29	8.67	8.3	33.49	19.99	3.46	3	0.263	E	/
C2	20240212	Sunny	Moderate	Mid-Ebb	Surface	1	13:49	8.35	8.25	33.65	20.03	2.76	3	0.294	SE	/
C2	20240212	Sunny	Moderate	Mid-Ebb	Surface	1	13:49	8.35	8.28	33.61	20.05	2.61	2.5	0.279	SE	/
C2	20240212	Sunny	Moderate	Mid-Ebb	Middle	12	13:48	8.39	8.28	33.67	20.04	2.75	2.5	0.284	E	/
C2	20240212	Sunny	Moderate	Mid-Ebb	Middle	12	13:48	8.36	8.26	33.62	20.04	2.81	2.5	0.288	SE	/
C2	20240212	Sunny	Moderate	Mid-Ebb	Bottom	23	13:47	8.38	8.25	33.76	20.06	2.89	3	0.297	SE	/
C2	20240212	Sunny	Moderate	Mid-Ebb	Bottom	23	13:47	8.38	8.24	33.64	20.02	3	3	0.264	SE	/
M1	20240212	Sunny	Moderate	Mid-Ebb	Surface	1	13:10	8.88	8.29	33.1	20.01	2.78	2.5	0.274	SE	/
M1	20240212	Sunny	Moderate	Mid-Ebb	Surface	1	13:10	8.85	8.26	33.07	19.99	2.95	3	0.282	SE	/
M1	20240212	Sunny	Moderate	Mid-Ebb	Middle	3.4	13:09	8.87	8.25	33	20.02	2.7	2.5	0.291	E	/
M1	20240212	Sunny	Moderate	Mid-Ebb	Middle	3.4	13:09	8.87	8.25	33.08	20.01	2.79	2.5	0.295	SE	/
M1	20240212	Sunny	Moderate	Mid-Ebb	Bottom	5.8	13:08	8.9	8.26	33.04	20.03	3	3	0.292	SE	/
M1	20240212	Sunny	Moderate	Mid-Ebb	Bottom	5.8	13:08	8.84	8.22	33.16	20.04	2.83	4	0.270	SE	/
M2	20240212	Sunny	Moderate	Mid-Ebb	Surface	1	12:55	8.94	8.1	33.56	19.94	2.55	3	0.281	SE	/
M2	20240212	Sunny	Moderate	Mid-Ebb	Surface	1	12:55	8.9	8.06	33.59	19.94	2.54	3	0.275	SE	/
M2	20240212	Sunny	Moderate	Mid-Ebb	Middle	6.25	12:54	8.89	8.03	33.61	19.91	2.49	2.5	0.269	E	/
M2	20240212	Sunny	Moderate	Mid-Ebb	Middle	6.25	12:54	8.91	8.06	33.62	19.97	2.89	2.5	0.282	E	/
M2	20240212	Sunny	Moderate	Mid-Ebb	Bottom	11.5	12:53	8.89	8.06	33.59	19.91	2.67	3	0.283	SE	/
M2	20240212	Sunny	Moderate	Mid-Ebb	Bottom	11.5	12:53	8.88	8.04	33.56	19.92	2.57	2.5	0.294	SE	/
M3	20240212	Sunny	Moderate	Mid-Ebb	Surface	1	13:25	8.33	8.32	34.29	19.9	3.26	2.5	0.294	SE	/
M3	20240212	Sunny	Moderate	Mid-Ebb	Surface	1	13:25	8.29	8.25	34.3	19.88	2.98	3	0.274	SE	/
M3	20240212	Sunny	Moderate	Mid-Ebb	Middle	3.25	13:24	8.29	8.27	34.24	19.9	3.17	2.5	0.279	SE	/
M3	20240212	Sunny	Moderate	Mid-Ebb	Middle	3.25	13:24	8.35	8.29	34.26	19.89	3.23	2.5	0.287	SE	/
M3	20240212	Sunny	Moderate	Mid-Ebb	Bottom	5.5	13:23	8.36	8.26	34.32	19.82	3.1	2.5	0.272	SE	/
M3	20240212	Sunny	Moderate	Mid-Ebb	Bottom	5.5	13:23	8.31	8.27	34.33	19.82	3.29	2.5	0.288	E	/
M4	20240212	Sunny	Moderate	Mid-Ebb	Surface	1	14:13	8.49	8.22	34.29	20.01	2.77	3	0.293	SE	/
M4	20240212	Sunny	Moderate	Mid-Ebb	Surface	1	14:13	8.51	8.19	34.29	19.95	3.16	2.5	0.299	E	/
M4	20240212	Sunny	Moderate	Mid-Ebb	Bottom	4	14:12	8.47	8.21	34.33	19.94	3.09	2.5	0.287	SE	/
M4	20240212	Sunny	Moderate	Mid-Ebb	Bottom	4	14:12	8.51	8.23	34.26	20	3.15	2.5	0.276	SE	/

C1	20240215	Sunny	Moderate	Mid-Ebb	Surface	1	14:56	8.33	8.32	33.26	21.32	4.13	3	0.265	E	/
C1	20240215	Sunny	Moderate	Mid-Ebb	Surface	1	14:56	8.24	8.35	33.24	21.25	4.29	3	0.267	E	/
C1	20240215	Sunny	Moderate	Mid-Ebb	Middle	11.2	14:55	8.37	8.35	33.15	21.2	4.33	3	0.284	E	/
C1	20240215	Sunny	Moderate	Mid-Ebb	Middle	11.2	14:55	8.32	8.31	33.19	21.24	4.42	3	0.278	SE	/
C1	20240215	Sunny	Moderate	Mid-Ebb	Bottom	21.4	14:54	8.3	8.34	33.18	21.21	4.27	3	0.298	E	/
C1	20240215	Sunny	Moderate	Mid-Ebb	Bottom	21.4	14:54	8.34	8.33	33.24	21.24	4.17	3	0.289	SE	/
C2	20240215	Sunny	Moderate	Mid-Ebb	Surface	1	16:01	8.95	8.19	33.84	21.07	3.38	3	0.267	E	/
C2	20240215	Sunny	Moderate	Mid-Ebb	Surface	1	16:01	8.83	8.2	33.8	21.09	3.43	2.5	0.264	E	/
C2	20240215	Sunny	Moderate	Mid-Ebb	Middle	11.85	16:00	8.82	8.24	33.78	21.13	3.38	2.5	0.279	SE	/
C2	20240215	Sunny	Moderate	Mid-Ebb	Middle	11.85	16:00	8.86	8.21	33.8	21.03	3.9	2.5	0.283	SE	/
C2	20240215	Sunny	Moderate	Mid-Ebb	Bottom	22.7	15:59	8.82	8.19	33.81	21.11	3.61	3	0.279	SE	/
C2	20240215	Sunny	Moderate	Mid-Ebb	Bottom	22.7	15:59	8.81	8.22	33.8	21.06	3.37	3	0.271	SE	/
M1	20240215	Sunny	Moderate	Mid-Ebb	Surface	1	15:25	9.13	8.32	34.46	21.08	3.83	2.5	0.279	SE	/
M1	20240215	Sunny	Moderate	Mid-Ebb	Surface	1	15:25	9.23	8.26	34.57	21.03	3.57	3	0.290	E	/
M1	20240215	Sunny	Moderate	Mid-Ebb	Middle	3.2	15:24	9.15	8.27	34.5	21.09	3.6	2.5	0.280	SE	/
M1	20240215	Sunny	Moderate	Mid-Ebb	Middle	3.2	15:24	9.26	8.29	34.5	20.97	3.61	2.5	0.286	SE	/
M1	20240215	Sunny	Moderate	Mid-Ebb	Bottom	5.4	15:23	9.11	8.3	34.44	21.07	3.73	3	0.273	E	/
M1	20240215	Sunny	Moderate	Mid-Ebb	Bottom	5.4	15:23	9.19	8.26	34.58	20.99	3.8	4	0.287	SE	/
M2	20240215	Sunny	Moderate	Mid-Ebb	Surface	1	15:15	8.06	8.34	34.09	21.47	2.88	3	0.266	SE	/
M2	20240215	Sunny	Moderate	Mid-Ebb	Surface	1	15:15	8.01	8.36	34.1	21.41	3.33	3	0.264	SE	/
M2	20240215	Sunny	Moderate	Mid-Ebb	Middle	6.4	15:14	8.03	8.33	34.05	21.4	3.29	2.5	0.284	E	/
M2	20240215	Sunny	Moderate	Mid-Ebb	Middle	6.4	15:14	7.96	8.33	34.15	21.42	2.89	2.5	0.287	E	/
M2	20240215	Sunny	Moderate	Mid-Ebb	Bottom	11.8	15:13	7.96	8.36	34.11	21.37	3.07	3	0.291	SE	/
M2	20240215	Sunny	Moderate	Mid-Ebb	Bottom	11.8	15:13	8.05	8.33	34.04	21.37	2.87	2.5	0.264	SE	/
M3	20240215	Sunny	Moderate	Mid-Ebb	Surface	1	15:37	9.23	8.32	34.28	21.2	3.21	2.5	0.285	SE	/
M3	20240215	Sunny	Moderate	Mid-Ebb	Surface	1	15:37	9.25	8.34	34.32	21.22	3.37	3	0.280	SE	/
M3	20240215	Sunny	Moderate	Mid-Ebb	Middle	3.95	15:36	9.18	8.31	34.28	21.24	3.38	2.5	0.275	E	/
M3	20240215	Sunny	Moderate	Mid-Ebb	Middle	3.95	15:36	9.31	8.31	34.28	21.16	3.1	2.5	0.287	SE	/
M3	20240215	Sunny	Moderate	Mid-Ebb	Bottom	6.9	15:35	9.29	8.31	34.32	21.21	3.24	2.5	0.290	SE	/
M3	20240215	Sunny	Moderate	Mid-Ebb	Bottom	6.9	15:35	9.21	8.31	34.29	21.15	3.26	2.5	0.269	SE	/
M4	20240215	Sunny	Moderate	Mid-Ebb	Surface	1	16:30	8.87	8.25	34.01	21.28	4.11	3	0.269	E	/
M4	20240215	Sunny	Moderate	Mid-Ebb	Surface	1	16:30	8.74	8.21	34	21.26	3.87	2.5	0.286	SE	/
M4	20240215	Sunny	Moderate	Mid-Ebb	Bottom	3.9	16:29	8.86	8.27	34.05	21.2	3.71	2.5	0.274	SE	/
M4	20240215	Sunny	Moderate	Mid-Ebb	Bottom	3.9	16:29	8.82	8.24	33.94	21.21	3.8	2.5	0.284	SE	/
C1	20240217	Sunny	Moderate	Mid-Ebb	Surface	1	16:15	8.58	8.12	33.05	21.57	2.91	2.5	0.294	SE	/
C1	20240217	Sunny	Moderate	Mid-Ebb	Surface	1	16:15	8.65	8.16	32.98	21.61	2.78	2.5	0.271	SE	/
C1	20240217	Sunny	Moderate	Mid-Ebb	Middle	9.85	16:14	8.59	8.1	32.84	21.59	2.79	3	0.276	SE	/
C1	20240217	Sunny	Moderate	Mid-Ebb	Middle	9.85	16:14	8.55	8.11	33.04	21.6	2.93	3	0.264	SE	/
C1	20240217	Sunny	Moderate	Mid-Ebb	Bottom	18.7	16:13	8.59	8.11	32.89	21.61	2.75	3	0.299	E	/
C1	20240217	Sunny	Moderate	Mid-Ebb	Bottom	18.7	16:13	8.65	8.15	32.99	21.59	2.88	2.5	0.298	SE	/
C2	20240217	Sunny	Moderate	Mid-Ebb	Surface	1	17:31	8.38	8.15	31.99	21.72	2.52	3	0.294	E	/
C2	20240217	Sunny	Moderate	Mid-Ebb	Surface	1	17:31	8.39	8.17	32.02	21.66	2.5	4	0.272	SE	/
C2	20240217	Sunny	Moderate	Mid-Ebb	Middle	11.15	17:30	8.39	8.21	32.11	21.72	2.47	4	0.293	E	/
C2	20240217	Sunny	Moderate	Mid-Ebb	Middle	11.15	17:30	8.37	8.22	31.85	21.69	2.62	6	0.276	SE	/
C2	20240217	Sunny	Moderate	Mid-Ebb	Bottom	21.3	17:29	8.29	8.16	32.05	21.65	2.63	2.5	0.293	E	/
C2	20240217	Sunny	Moderate	Mid-Ebb	Bottom	21.3	17:29	8.41	8.17	32.01	21.66	2.51	2.5	0.285	SE	/
M1	20240217	Sunny	Moderate	Mid-Ebb	Surface	1	16:50	7.91	8.17	32.66	21.68	1.56	3	0.278	SE	/
M1	20240217	Sunny	Moderate	Mid-Ebb	Surface	1	16:50	7.94	8.16	32.82	21.69	1.78	2.5	0.265	E	/
M1	20240217	Sunny	Moderate	Mid-Ebb	Middle	3.3	16:49	7.93	8.14	32.8	21.76	1.85	3	0.277	SE	/
M1	20240217	Sunny	Moderate	Mid-Ebb	Middle	3.3	16:49	7.95	8.09	32.67	21.69	1.7	3	0.287	SE	/
M1	20240217	Sunny	Moderate	Mid-Ebb	Bottom	5.6	16:48	7.91	8.16	32.87	21.68	2.07	2.5	0.273	E	/
M1	20240217	Sunny	Moderate	Mid-Ebb	Bottom	5.6	16:48	7.97	8.1	32.82	21.72	2.09	4	0.282	E	/
M2	20240217	Sunny	Moderate	Mid-Ebb	Surface	1	16:35	8.27	8.22	33.19	21.74	1.96	3	0.284	SE	/
M2	20240217	Sunny	Moderate	Mid-Ebb	Surface	1	16:35	8.31	8.21	32.96	21.77	1.98	2.5	0.270	SE	/
M2	20240217	Sunny	Moderate	Mid-Ebb	Middle	6.85	16:34	8.24	8.23	33.13	21.76	2.16	3	0.292	SE	/
M2	20240217	Sunny	Moderate	Mid-Ebb	Middle	6.85	16:34	8.29	8.23	33.2	21.75	1.98	3	0.275	E	/
M2	20240217	Sunny	Moderate	Mid-Ebb	Bottom	12.7	16:33	8.29	8.23	33.09	21.76	2.34	2.5	0.298	SE	/
M2	20240217	Sunny	Moderate	Mid-Ebb	Bottom	12.7	16:33	8.24	8.18	33.04	21.77	2.06	4	0.279	SE	/
M3	20240217	Sunny	Moderate	Mid-Ebb	Surface	1	17:03	8.34	8.08	32.66	21.42	1.86	2.5	0.299	SE	/
M3	20240217	Sunny	Moderate	Mid-Ebb	Surface	1	17:03	8.3	8.08	32.61	21.5	2.16	3	0.294	SE	/
M3	20240217	Sunny	Moderate	Mid-Ebb	Middle	3.45	17:02	8.3	8.03	32.48	21.46	1.65	3	0.282	E	/
M3	20240217	Sunny	Moderate	Mid-Ebb	Middle	3.45	17:02	8.34	8.11	32.58	21.48	1.9	4	0.289	SE	/
M3	20240217	Sunny	Moderate	Mid-Ebb	Bottom	5.9	17:01	8.27	8.03	32.58	21.43	1.99	3	0.294	E	/
M3	20240217	Sunny	Moderate	Mid-Ebb	Bottom	5.9	17:01	8.33	8.11	32.56	21.46	2.12	3	0.285	E	/
M4	20240217	Sunny	Moderate	Mid-Ebb	Surface	1	17:59	8.48	8.33	32.78	21.61	2.19	3	0.294	E	/
M4	20240217	Sunny	Moderate	Mid-Ebb	Surface	1	17:59	8.53	8.31	32.81	21.54	2.45	2.5	0.289	SE	/
M4	20240217	Sunny	Moderate	Mid-Ebb	Bottom	4.6	17:57	8.59	8.36	32.74	21.59	2.4	3	0.278	E	/
M4	20240217	Sunny	Moderate	Mid-Ebb	Bottom	4.6	17:57	8.51	8.35	32.93	21.56	2.17	3	0.274	SE	/
C1	20240220	Sunny	Moderate	Mid-Ebb	Surface	1	18:47	8.43	8.09	32.55	22.01	3.32	5	0.282	SE	/
C1	20240220	Sunny	Moderate	Mid-Ebb	Surface	1	18:47	8.39	8.14	32.52	22.03	3.39	4	0.270	SE	/
C1	20240220	Sunny	Moderate	Mid-Ebb	Middle	11.55	18:46	8.37	8.16	32.52	22.03	3.22	4	0.290	E	/
C1	20240220	Sunny	Moderate	Mid-Ebb	Middle	11.55	18:46	8.36	8.12	32.58	22	3.43	4	0.294	E	/
C1	20240220	Sunny	Moderate	Mid-Ebb	Bottom	22.1	18:45	8.37	8.14	32.57	21.97	3.31	4	0.270	SE	/
C1	20240220	Sunny	Moderate	Mid-Ebb	Bottom	22.1	18:45	8.37	8.11	32.57	22	3.27	4	0.280	SE	/
C2	20240220	Sunny	Moderate	Mid-Ebb	Surface	1	19:48	8.75	8.16	32.84	22.04	2.91	3	0.275	E	/
C2	20240220	Sunny	Moderate	Mid-Ebb	Surface	1	19:48	8.73	8.16	32.78	22.04	2.97	2.5	0.299	E	/
C2	20240220	Sunny	Moderate	Mid-Ebb	Middle	12.15	19:47	8.75	8.17	32.73	22.04	2.99	2.5	0.297	SE	/
C2	20240220	Sunny	Moderate	Mid-Ebb	Middle	12.15	19:47	8.67	8.18	32.76	22.01	3.03	2.5	0.284	SE	/
C2	20240220	Sunny	Moderate	Mid-Ebb	Bottom	23.3	19:46	8.7	8.17	32.86	21.98	3.16	3	0.301	E	/
C2	20240220	Sunny	Moderate	Mid-Ebb	Bottom	23.3	19:46	8.67	8.16	32.82	22.04	3.18	3	0.293	SE	/
M1	20240220	Sunny	Moderate	Mid-Ebb	Surface	1	19:14	7.89	8.34	32.17	21.94	2.34	2.5	0.301	SE	/
M1	20240220	Sunny	Moderate	Mid-Ebb	Surface	1	19:14	7.87	8.35	32.09	21.92	2.46	3	0.269	E	/
M1	20240220	Sunny	Moderate	Mid-Ebb	Middle	3.2	19:13	7.88	8.36	32.08	21.97	2.23	2.5	0.282	SE	/
M1	20240220	Sunny	Moderate	Mid-Ebb	Middle	3.2	19:13	7.89	8.31	32.1	21.96	2.6	4	0.284	SE	/
M1	20240220	Sunny	Moderate	Mid-Ebb	Bottom	5.4	19:12	7.93	8.31	32.1	21.98	2.47	3	0.276	E	/
M1	20240220	Sunny	Moderate	Mid-Ebb	Bottom	5.4	19:12	7.9	8.29	32.05	21.92	2.56	3	0.276	SE	/
M2	20240220	Sunny	Moderate	Mid-Ebb	Surface	1	19:03	8.8	8.22	32.89	21.88	2.74	3	0.272	SE	/
M2	20240220	Sunny	Moderate	Mid-Ebb	Surface	1	19:03	8.8	8.13	32.85	21.83	2.47	3	0.273	SE	/
M2	20240220	Sunny	Moderate	Mid-Ebb	Middle	6.2	19:02	8.85	8.13	32.93	21.88	2.71	2.5	0.296	SE	/
M2	20240220	Sunny	Moderate	Mid-Ebb	Middle	6.2	19:02	8.88	8.14	32.85	21.88	2.65	3	0.301	SE	/
M2	20240220	Sunny	Moderate	Mid-Ebb	Bottom	11.4	19:01	8.81	8.14	32.94	21.88	2.42	3	0.283	E	/
M2	20240220	Sunny	Moderate	Mid-Ebb	Bottom	11.4	19:01	8.8	8.21	32.89	21.83	2.31	4	0.292	SE	/
M3	20240220	Sunny	Moderate	Mid-Ebb	Surface	1	19:26	7.91	8.1	32.24	22.04	1.71	2.5	0.283	SE	/
M3	20240220	Sunny	Moderate	Mid-Ebb	Surface	1	19:26	7.85	8.15	32.27	22.08	1.62	2.5	0.280	E	/
M3	20240220	Sunny	Moderate	Mid-Ebb	Middle	3.3	19:25	7.89	8.11	32.16	22.09	1.69	2.5	0.276	E	/
M3	20240220	Sunny	Moderate	Mid-Ebb	Middle	3.3	19:25	7.83	8.12	32.27	22.07	1.69	2.5	0.297	SE	/
M3	20240220	Sunny	Moderate	Mid-Ebb	Bottom	5.6	19:24	7.88	8.13	32.15	22.1	1.88	3	0.292	SE	/
M3	20240220	Sunny	Moderate	Mid-Ebb	Bottom	5.6	19:24	7.87	8.14	32.26	22.04	1.66	3	0.285	SE	/
M4	20240220	Sunny	Moderate	Mid-Ebb	Surface	1	20:13	8.97	8.32	31.76	22.03	2.88	2.5	0.285	E	/
M4	20240220	Sunny	Moderate	Mid-Ebb	Surface	1	20:13	8.88	8.28	31.89	22.03	2.7	2.5	0.277	E	/
M4	20240220	Sunny	Moderate	Mid-Ebb	Bottom	4	20:12	8.86	8.25	31.76	22.04	2.95	2.5	0.267	E	/
M4	20240220	Sunny	Moderate	Mid-Ebb	Bottom	4	20:12	8.87	8.29	31.85	22.05	3.01	2.5	0.286	E	/

C1	20240222	Sunny	Moderate	Mid-Ebb	Surface	1	10:17	7.58	8.17	33.23	22.45	2.96	2.5	0.268	SE	/
C1	20240222	Sunny	Moderate	Mid-Ebb	Surface	1	10:17	7.65	8.15	33.18	22.56	3.08	3	0.271	SE	/
C1	20240222	Sunny	Moderate	Mid-Ebb	Middle	11.2	10:16	7.6	8.14	33.2	22.56	3.14	3	0.268	E	/
C1	20240222	Sunny	Moderate	Mid-Ebb	Middle	11.2	10:16	7.61	8.19	33.17	22.48	2.87	2.5	0.283	SE	/
C1	20240222	Sunny	Moderate	Mid-Ebb	Bottom	21.4	10:15	7.68	8.18	33.24	22.5	2.96	3	0.289	SE	/
C1	20240222	Sunny	Moderate	Mid-Ebb	Bottom	21.4	10:15	7.61	8.21	33.27	22.53	3	3	0.298	SE	/
C2	20240222	Sunny	Moderate	Mid-Ebb	Surface	1	11:27	8.69	8.25	33.02	22.4	2.38	2.5	0.288	E	/
C2	20240222	Sunny	Moderate	Mid-Ebb	Surface	1	11:27	8.58	8.21	33.07	22.37	2.25	2.5	0.271	SE	/
C2	20240222	Sunny	Moderate	Mid-Ebb	Middle	11.8	11:26	8.57	8.24	33.04	22.37	2.38	2.5	0.281	SE	/
C2	20240222	Sunny	Moderate	Mid-Ebb	Middle	11.8	11:26	8.57	8.26	33.09	22.41	2.36	2.5	0.281	SE	/
C2	20240222	Sunny	Moderate	Mid-Ebb	Bottom	22.6	11:25	8.68	8.22	33.12	22.39	2.46	2.5	0.268	SE	/
C2	20240222	Sunny	Moderate	Mid-Ebb	Bottom	22.6	11:25	8.67	8.23	33.02	22.44	2.44	3	0.287	E	/
M1	20240222	Sunny	Moderate	Mid-Ebb	Surface	1	10:53	8.34	8.32	33.17	22.1	1.9	3	0.266	SE	/
M1	20240222	Sunny	Moderate	Mid-Ebb	Surface	1	10:53	8.44	8.34	33.17	22.16	1.91	2.5	0.263	SE	/
M1	20240222	Sunny	Moderate	Mid-Ebb	Middle	3.7	10:52	8.39	8.27	33.21	22.09	2.06	2.5	0.288	SE	/
M1	20240222	Sunny	Moderate	Mid-Ebb	Middle	3.7	10:52	8.43	8.29	33.15	22.07	2.3	2.5	0.279	SE	/
M1	20240222	Sunny	Moderate	Mid-Ebb	Bottom	6.4	10:51	8.34	8.34	33.13	22.13	2	2.5	0.292	E	/
M1	20240222	Sunny	Moderate	Mid-Ebb	Bottom	6.4	10:51	8.38	8.32	33.12	22.18	1.95	3	0.299	E	/
M2	20240222	Sunny	Moderate	Mid-Ebb	Surface	1	10:37	7.76	8.27	32.95	22.19	2.35	3	0.282	SE	/
M2	20240222	Sunny	Moderate	Mid-Ebb	Surface	1	10:37	7.74	8.22	32.86	22.1	2.08	2.5	0.299	E	/
M2	20240222	Sunny	Moderate	Mid-Ebb	Middle	6.55	10:36	7.68	8.24	32.86	22.12	2.03	2.5	0.288	E	/
M2	20240222	Sunny	Moderate	Mid-Ebb	Middle	6.55	10:36	7.72	8.25	32.92	22.09	2.24	2.5	0.297	E	/
M2	20240222	Sunny	Moderate	Mid-Ebb	Bottom	12.1	10:35	7.67	8.24	32.88	22.15	1.88	2.5	0.283	E	/
M2	20240222	Sunny	Moderate	Mid-Ebb	Bottom	12.1	10:35	7.75	8.28	32.95	22.09	2.15	2.5	0.276	E	/
M3	20240222	Sunny	Moderate	Mid-Ebb	Surface	1	11:06	8.2	8.3	33.49	22.4	2.67	2.5	0.297	E	/
M3	20240222	Sunny	Moderate	Mid-Ebb	Surface	1	11:06	8.25	8.28	33.53	22.4	2.47	2.5	0.290	SE	/
M3	20240222	Sunny	Moderate	Mid-Ebb	Middle	3.2	11:05	8.25	8.26	33.57	22.42	2.75	2.5	0.297	E	/
M3	20240222	Sunny	Moderate	Mid-Ebb	Middle	3.2	11:05	8.21	8.26	33.46	22.38	2.63	2.5	0.280	SE	/
M3	20240222	Sunny	Moderate	Mid-Ebb	Bottom	5.4	11:04	8.17	8.3	33.47	22.45	2.4	2.5	0.269	SE	/
M3	20240222	Sunny	Moderate	Mid-Ebb	Bottom	5.4	11:04	8.21	8.3	33.57	22.38	2.31	2.5	0.281	SE	/
M4	20240222	Sunny	Moderate	Mid-Ebb	Surface	1	11:54	8.01	8.4	32.1	22.44	1.99	2.5	0.287	SE	/
M4	20240222	Sunny	Moderate	Mid-Ebb	Surface	1	11:54	8.01	8.33	32.19	22.47	2.18	3	0.297	SE	/
M4	20240222	Sunny	Moderate	Mid-Ebb	Bottom	3.7	11:53	7.97	8.34	32.1	22.4	2.1	2.5	0.283	SE	/
M4	20240222	Sunny	Moderate	Mid-Ebb	Bottom	3.7	11:53	8.02	8.38	32.1	22.39	2.32	2.5	0.292	SE	/
C1	20240224	Cloudy	Moderate	Mid-Ebb	Surface	1	10:49	7.61	8.15	32.74	23.19	3.34	3	0.291	E	/
C1	20240224	Cloudy	Moderate	Mid-Ebb	Surface	1	10:49	7.61	8.21	32.7	23.2	3.56	2.5	0.279	E	/
C1	20240224	Cloudy	Moderate	Mid-Ebb	Middle	9.35	10:48	7.61	8.12	32.78	23.15	3.57	2.5	0.293	E	/
C1	20240224	Cloudy	Moderate	Mid-Ebb	Middle	9.35	10:48	7.59	8.14	32.75	23.19	3.47	2.5	0.294	E	/
C1	20240224	Cloudy	Moderate	Mid-Ebb	Bottom	17.7	10:47	7.65	8.21	32.79	23.22	3.54	2.5	0.277	E	/
C1	20240224	Cloudy	Moderate	Mid-Ebb	Bottom	17.7	10:47	7.68	8.2	32.75	23.23	3.23	2.5	0.299	SE	/
C2	20240224	Cloudy	Moderate	Mid-Ebb	Surface	1	12:00	8.21	8.14	33.88	23.14	2.95	2.5	0.271	SE	/
C2	20240224	Cloudy	Moderate	Mid-Ebb	Surface	1	12:00	8.16	8.23	33.9	23.13	2.88	2.5	0.282	SE	/
C2	20240224	Cloudy	Moderate	Mid-Ebb	Middle	12.35	11:59	8.19	8.16	33.86	23.2	2.86	2.5	0.282	E	/
C2	20240224	Cloudy	Moderate	Mid-Ebb	Middle	12.35	11:59	8.16	8.19	33.9	23.2	2.95	2.5	0.263	E	/
C2	20240224	Cloudy	Moderate	Mid-Ebb	Bottom	23.7	11:58	8.19	8.15	33.82	23.1	2.91	2.5	0.269	E	/
C2	20240224	Cloudy	Moderate	Mid-Ebb	Bottom	23.7	11:58	8.17	8.22	33.91	23.21	2.81	2.5	0.283	E	/
M1	20240224	Cloudy	Moderate	Mid-Ebb	Surface	1	11:23	7.91	8.2	33.39	23.25	2.64	2.5	0.293	SE	/
M1	20240224	Cloudy	Moderate	Mid-Ebb	Surface	1	11:23	8.01	8.14	33.44	23.14	2.74	3	0.284	SE	/
M1	20240224	Cloudy	Moderate	Mid-Ebb	Middle	3.7	11:22	7.91	8.15	33.35	23.2	2.42	4	0.286	E	/
M1	20240224	Cloudy	Moderate	Mid-Ebb	Middle	3.7	11:22	7.9	8.12	33.37	23.16	2.84	2.5	0.272	SE	/
M1	20240224	Cloudy	Moderate	Mid-Ebb	Bottom	6.4	11:21	7.95	8.14	33.38	23.21	2.57	2.5	0.268	SE	/
M1	20240224	Cloudy	Moderate	Mid-Ebb	Bottom	6.4	11:21	7.95	8.17	33.43	23.24	2.35	2.5	0.274	SE	/
M2	20240224	Cloudy	Moderate	Mid-Ebb	Surface	1	11:10	8.47	8.18	32.81	23.19	2.61	2.5	0.264	E	/
M2	20240224	Cloudy	Moderate	Mid-Ebb	Surface	1	11:10	8.54	8.18	32.79	23.22	2.38	2.5	0.291	SE	/
M2	20240224	Cloudy	Moderate	Mid-Ebb	Middle	6.35	11:09	8.51	8.21	32.83	23.16	2.16	2.5	0.279	SE	/
M2	20240224	Cloudy	Moderate	Mid-Ebb	Middle	6.35	11:09	8.45	8.22	32.81	23.22	2.24	2.5	0.288	SE	/
M2	20240224	Cloudy	Moderate	Mid-Ebb	Bottom	11.7	11:08	8.54	8.14	32.75	23.14	2.1	2.5	0.281	E	/
M2	20240224	Cloudy	Moderate	Mid-Ebb	Bottom	11.7	11:08	8.44	8.19	32.83	23.15	2.08	2.5	0.276	SE	/
M3	20240224	Cloudy	Moderate	Mid-Ebb	Surface	1	11:35	8.58	8.17	33.95	23.24	2.69	2.5	0.297	SE	/
M3	20240224	Cloudy	Moderate	Mid-Ebb	Surface	1	11:35	8.68	8.16	34	23.33	2.33	2.5	0.294	SE	/
M3	20240224	Cloudy	Moderate	Mid-Ebb	Middle	4	11:34	8.63	8.22	33.93	23.3	2.49	2.5	0.278	SE	/
M3	20240224	Cloudy	Moderate	Mid-Ebb	Middle	4	11:34	8.65	8.13	33.94	23.27	2.69	2.5	0.269	E	/
M3	20240224	Cloudy	Moderate	Mid-Ebb	Bottom	7	11:33	8.65	8.15	33.96	23.28	2.77	2.5	0.275	E	/
M3	20240224	Cloudy	Moderate	Mid-Ebb	Bottom	7	11:33	8.58	8.2	33.98	23.31	2.78	2.5	0.278	E	/
M4	20240224	Cloudy	Moderate	Mid-Ebb	Surface	1	12:26	8.98	8.14	33.75	23.27	3.2	2.5	0.274	SE	/
M4	20240224	Cloudy	Moderate	Mid-Ebb	Surface	1	12:26	9.01	8.07	33.77	23.19	3.18	2.5	0.292	SE	/
M4	20240224	Cloudy	Moderate	Mid-Ebb	Bottom	3.8	12:25	9.05	8.08	33.78	23.24	3.16	2.5	0.282	E	/
M4	20240224	Cloudy	Moderate	Mid-Ebb	Bottom	3.8	12:25	9.04	8.06	33.8	23.27	3.21	2.5	0.289	E	/
C1	20240227	Cloudy	Moderate	Mid-Ebb	Surface	1	12:18	7.87	8.07	31.76	22.9	3.46	9	0.288	SE	/
C1	20240227	Cloudy	Moderate	Mid-Ebb	Surface	1	12:18	8.04	8.08	31.79	22.9	3.45	5	0.272	SE	/
C1	20240227	Cloudy	Moderate	Mid-Ebb	Middle	10.5	12:17	8.06	8.11	31.73	22.93	3.42	8	0.295	SE	/
C1	20240227	Cloudy	Moderate	Mid-Ebb	Middle	10.5	12:17	7.98	8.14	31.87	22.9	3.45	8	0.277	SE	/
C1	20240227	Cloudy	Moderate	Mid-Ebb	Bottom	20	12:16	8.02	8.1	31.88	22.92	3.36	7	0.266	E	/
C1	20240227	Cloudy	Moderate	Mid-Ebb	Bottom	20	12:16	7.81	8.1	31.79	22.97	3.49	5	0.289	SE	/
C2	20240227	Cloudy	Moderate	Mid-Ebb	Surface	1	13:32	7.82	8.25	31.79	22.54	3.51	5	0.285	E	/
C2	20240227	Cloudy	Moderate	Mid-Ebb	Surface	1	13:32	7.8	8.33	31.79	22.62	3.36	7	0.287	SE	/
C2	20240227	Cloudy	Moderate	Mid-Ebb	Middle	11.9	13:31	7.91	8.3	31.86	22.55	3.32	4	0.288	SE	/
C2	20240227	Cloudy	Moderate	Mid-Ebb	Middle	11.9	13:31	7.68	8.34	31.85	22.53	3.43	5	0.295	SE	/
C2	20240227	Cloudy	Moderate	Mid-Ebb	Bottom	22.8	13:30	7.72	8.29	32.02	22.54	3.25	4	0.299	SE	/
C2	20240227	Cloudy	Moderate	Mid-Ebb	Bottom	22.8	13:30	7.66	8.32	31.87	22.6	3.15	4	0.274	E	/
M1	20240227	Cloudy	Moderate	Mid-Ebb	Surface	1	12:53	7.78	8.13	31.69	22.72	2.97	4	0.279	SE	/
M1	20240227	Cloudy	Moderate	Mid-Ebb	Surface	1	12:53	7.72	8.11	31.89	22.77	2.98	4	0.271	SE	/
M1	20240227	Cloudy	Moderate	Mid-Ebb	Middle	3.6	12:52	7.89	8.15	31.84	22.69	2.84	3	0.276	E	/
M1	20240227	Cloudy	Moderate	Mid-Ebb	Middle	3.6	12:52	7.85	8.16	31.72	22.72	2.65	3	0.300	SE	/
M1	20240227	Cloudy	Moderate	Mid-Ebb	Bottom	6.2	12:51	7.7	8.17	31.77	22.73	2.52	5	0.283	SE	/
M1	20240227	Cloudy	Moderate	Mid-Ebb	Bottom	6.2	12:51	7.8	8.14	31.89	22.71	2.5	3	0.264	E	/
M2	20240227	Cloudy	Moderate	Mid-Ebb	Surface	1	12:40	8.61	8.2	32.26	22.68	2.82	5	0.298	E	/
M2	20240227	Cloudy	Moderate	Mid-Ebb	Surface	1	12:40	8.47	8.25	32.25	22.71	2.76	5	0.288	SE	/
M2	20240227	Cloudy	Moderate	Mid-Ebb	Middle	6.4	12:39	8.55	8.23	32.22	22.76	2.79	2.5	0.284	E	/
M2	20240227	Cloudy	Moderate	Mid-Ebb	Middle	6.4	12:39	8.48	8.26	32.36	22.73	2.97	3	0.295	SE	/
M2	20240227	Cloudy	Moderate	Mid-Ebb	Bottom	11.8	12:38	8.71	8.22	32.2	22.75	2.79	4	0.275	E	/
M2	20240227	Cloudy	Moderate	Mid-Ebb	Bottom	11.8	12:38	8.59	8.27	32.09	22.71	2.96	3	0.301	E	/
M3	20240227	Cloudy	Moderate	Mid-Ebb	Surface	1	13:06	8.66	8.22	32.61	22.68	2.93	4	0.289	SE	/
M3	20240227	Cloudy	Moderate	Mid-Ebb	Surface	1	13:06	8.76	8.2	32.8	22.6	2.89	3	0.283	SE	/
M3	20240227	Cloudy	Moderate	Mid-Ebb	Middle	3.65	13:05	8.81	8.2	32.86	22.59	2.81	4	0.274	SE	/
M3	20240227	Cloudy	Moderate	Mid-Ebb	Middle	3.65	13:05	8.77	8.22	32.85	22.64	2.93	4	0.280	E	/
M3	20240227	Cloudy	Moderate	Mid-Ebb	Bottom	6.3	13:04	8.79	8.21	32.68	22.63	2.98	5	0.265	SE	/
M3	20240227	Cloudy	Moderate	Mid-Ebb	Bottom	6.3	13:04	8.61	8.21	32.77	22.68	2.92	4	0.291	SE	/
M4	20240227	Cloudy	Moderate	Mid-Ebb	Surface	1	14:00	8.13	8.32	32.07	22.58	2.93	4	0.285	SE	/
M4	20240227	Cloudy	Moderate	Mid-Ebb	Surface	1	14:00	8.23	8.28	32.3	22.59	2.99	3	0.287	SE	/
M4	20240227	Cloudy	Moderate	Mid-Ebb	Bottom	4.7	13:59	8.3	8.3	32.09	22.53	3.11	4	0.282	SE	/
M4	20240227	Cloudy	Moderate	Mid-Ebb	Bottom	4.7	13:59	8.28	8.29	32.09	22.56	2.8	4	0.264	E	/

C1	20240229	Cloudy	Moderate	Mid-Ebb	Surface	1	13:19	8.47	8.18	33.12	23.21	3.78	3	0.274	SE	/
C1	20240229	Cloudy	Moderate	Mid-Ebb	Surface	1	13:19	8.27	8.2	33.17	23.21	3.63	3	0.268	E	/
C1	20240229	Cloudy	Moderate	Mid-Ebb	Middle	11.05	13:18	8.28	8.21	33.06	23.21	3.63	3	0.294	SE	/
C1	20240229	Cloudy	Moderate	Mid-Ebb	Middle	11.05	13:18	8.44	8.21	33.14	23.21	3.49	4	0.267	E	/
C1	20240229	Cloudy	Moderate	Mid-Ebb	Bottom	21.1	13:17	8.45	8.19	33.13	23.19	3.76	3	0.288	E	/
C1	20240229	Cloudy	Moderate	Mid-Ebb	Bottom	21.1	13:17	8.46	8.2	33.1	23.25	3.85	3	0.284	SE	/
C2	20240229	Cloudy	Moderate	Mid-Ebb	Surface	1	14:30	8.4	8.31	34.44	23.34	2.93	7	0.273	SE	/
C2	20240229	Cloudy	Moderate	Mid-Ebb	Surface	1	14:30	8.49	8.33	34.37	23.32	3.06	4	0.269	E	/
C2	20240229	Cloudy	Moderate	Mid-Ebb	Middle	10.6	14:29	8.54	8.25	34.35	23.32	2.85	3	0.285	SE	/
C2	20240229	Cloudy	Moderate	Mid-Ebb	Middle	10.6	14:29	8.53	8.31	34.39	23.37	2.88	3	0.266	SE	/
C2	20240229	Cloudy	Moderate	Mid-Ebb	Bottom	20.2	14:28	8.38	8.26	34.34	23.35	3.09	3	0.273	SE	/
C2	20240229	Cloudy	Moderate	Mid-Ebb	Bottom	20.2	14:28	8.45	8.25	34.37	23.34	2.98	6	0.288	SE	/
M1	20240229	Cloudy	Moderate	Mid-Ebb	Surface	1	13:51	8.33	8.11	33.61	23.41	2.51	3	0.293	E	/
M1	20240229	Cloudy	Moderate	Mid-Ebb	Surface	1	13:51	8.18	8.15	33.65	23.41	2.39	3	0.266	E	/
M1	20240229	Cloudy	Moderate	Mid-Ebb	Middle	3.35	13:50	8.23	8.13	33.61	23.42	2.51	4	0.299	SE	/
M1	20240229	Cloudy	Moderate	Mid-Ebb	Middle	3.35	13:50	8.37	8.09	33.63	23.42	2.3	3	0.290	SE	/
M1	20240229	Cloudy	Moderate	Mid-Ebb	Bottom	5.7	13:49	8.2	8.15	33.58	23.46	2.29	3	0.294	E	/
M1	20240229	Cloudy	Moderate	Mid-Ebb	Bottom	5.7	13:49	8.37	8.16	33.55	23.42	2.29	3	0.264	E	/
M2	20240229	Cloudy	Moderate	Mid-Ebb	Surface	1	13:36	8.21	8.25	33.8	23.32	2.82	3	0.275	E	/
M2	20240229	Cloudy	Moderate	Mid-Ebb	Surface	1	13:36	8.08	8.31	33.88	23.29	3.23	5	0.264	SE	/
M2	20240229	Cloudy	Moderate	Mid-Ebb	Middle	6.3	13:35	7.99	8.24	33.83	23.32	2.88	3	0.276	SE	/
M2	20240229	Cloudy	Moderate	Mid-Ebb	Middle	6.3	13:35	8.01	8.28	33.91	23.3	2.76	4	0.265	E	/
M2	20240229	Cloudy	Moderate	Mid-Ebb	Bottom	11.6	13:34	8	8.24	33.87	23.34	2.94	3	0.293	SE	/
M2	20240229	Cloudy	Moderate	Mid-Ebb	Bottom	11.6	13:34	8.08	8.29	33.85	23.33	2.85	3	0.263	SE	/
M3	20240229	Cloudy	Moderate	Mid-Ebb	Surface	1	14:04	8.49	8.36	33.51	23.16	2.54	3	0.264	SE	/
M3	20240229	Cloudy	Moderate	Mid-Ebb	Surface	1	14:04	8.37	8.31	33.56	23.18	2.91	4	0.279	SE	/
M3	20240229	Cloudy	Moderate	Mid-Ebb	Middle	3.95	14:03	8.39	8.34	33.47	23.23	2.71	3	0.263	E	/
M3	20240229	Cloudy	Moderate	Mid-Ebb	Middle	3.95	14:03	8.48	8.34	33.52	23.22	2.73	3	0.293	E	/
M3	20240229	Cloudy	Moderate	Mid-Ebb	Bottom	6.9	14:02	8.49	8.29	33.56	23.16	2.78	2.5	0.278	E	/
M3	20240229	Cloudy	Moderate	Mid-Ebb	Bottom	6.9	14:02	8.44	8.31	33.53	23.18	3.06	4	0.296	SE	/
M4	20240229	Cloudy	Moderate	Mid-Ebb	Surface	1	14:58	7.85	8.18	32.99	23.48	2	4	0.263	SE	/
M4	20240229	Cloudy	Moderate	Mid-Ebb	Surface	1	14:58	7.8	8.19	33.06	23.5	2.02	3	0.279	E	/
M4	20240229	Cloudy	Moderate	Mid-Ebb	Bottom	4.5	14:57	7.84	8.2	33.06	23.47	2.14	3	0.297	SE	/
M4	20240229	Cloudy	Moderate	Mid-Ebb	Bottom	4.5	14:57	7.68	8.21	33	23.47	2.21	4	0.296	E	/

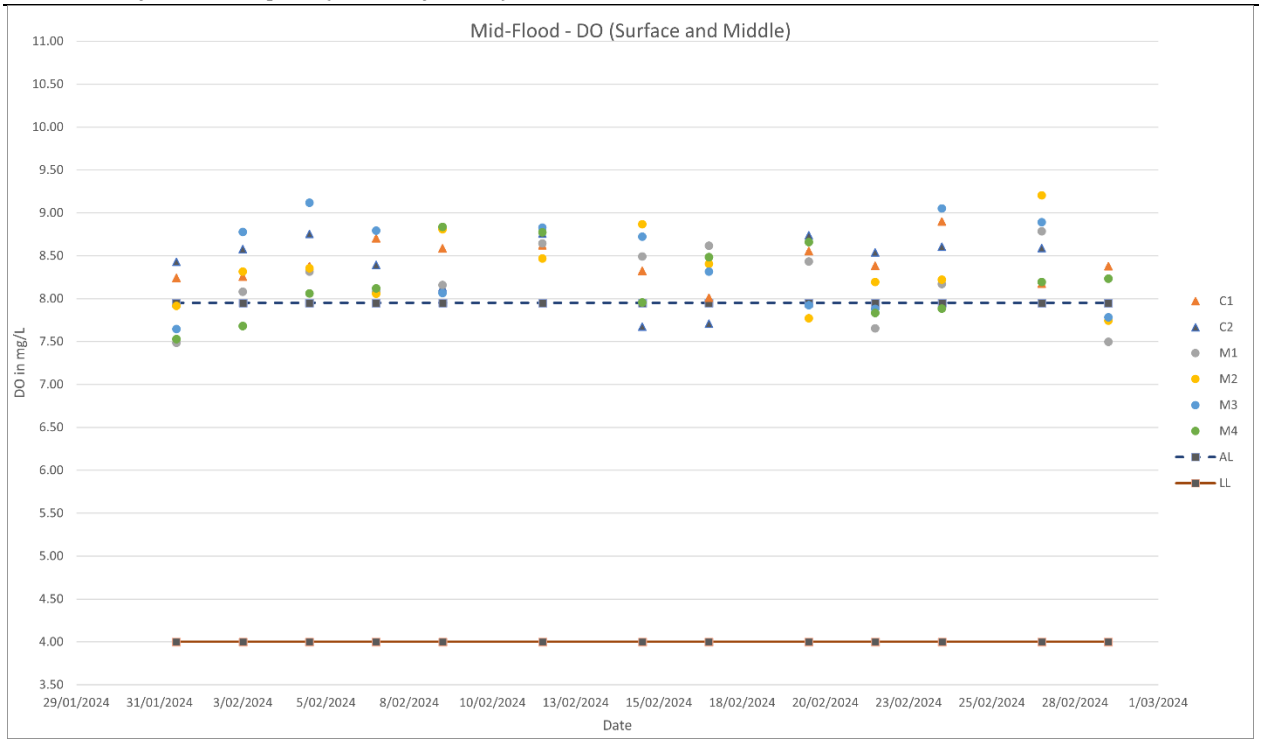
C1	20240201	Cloudy	Moderate	Mid-Flood	Surface	1	10:52	8.26	8.09	32.50	18.95	2.71	3	0.201	NW	/
C1	20240201	Cloudy	Moderate	Mid-Flood	Surface	1	10:52	8.23	8.10	32.50	18.94	2.82	3	0.181	NW	/
C1	20240201	Cloudy	Moderate	Mid-Flood	Middle	10.2	10:51	8.22	8.13	32.55	18.93	3.13	2.5	0.218	N	/
C1	20240201	Cloudy	Moderate	Mid-Flood	Middle	10.2	10:51	8.26	8.08	32.51	18.90	2.82	3	0.209	NW	/
C1	20240201	Cloudy	Moderate	Mid-Flood	Bottom	19.4	10:50	8.23	8.13	32.52	18.96	2.88	2.5	0.206	NW	/
C1	20240201	Cloudy	Moderate	Mid-Flood	Bottom	19.4	10:50	8.22	8.07	32.54	18.88	2.92	3	0.198	N	/
C2	20240201	Cloudy	Moderate	Mid-Flood	Surface	1	9:48	8.41	8.19	33.14	18.74	3.17	3	0.218	NW	/
C2	20240201	Cloudy	Moderate	Mid-Flood	Surface	1	9:48	8.47	8.20	33.16	18.72	3.16	2.5	0.173	NW	/
C2	20240201	Cloudy	Moderate	Mid-Flood	Middle	12.55	9:47	8.44	8.21	33.14	18.73	3.29	3	0.174	N	/
C2	20240201	Cloudy	Moderate	Mid-Flood	Middle	12.55	9:47	8.40	8.21	33.10	18.69	3.15	2.5	0.223	NW	/
C2	20240201	Cloudy	Moderate	Mid-Flood	Bottom	24.1	9:46	8.44	8.16	33.13	18.74	3.36	3	0.166	NW	/
C2	20240201	Cloudy	Moderate	Mid-Flood	Bottom	24.1	9:46	8.44	8.17	33.12	18.72	3.37	5	0.171	NW	/
M1	20240201	Cloudy	Moderate	Mid-Flood	Surface	1	10:14	7.48	8.05	33.03	18.71	2.86	3	0.195	NW	/
M1	20240201	Cloudy	Moderate	Mid-Flood	Surface	1	10:14	7.51	8.05	32.99	18.69	2.65	3	0.209	NW	/
M1	20240201	Cloudy	Moderate	Mid-Flood	Middle	3.6	10:13	7.49	8.08	33.07	18.62	2.61	3	0.181	NW	/
M1	20240201	Cloudy	Moderate	Mid-Flood	Middle	3.6	10:13	7.46	8.08	33.00	18.69	3.05	3	0.198	NW	/
M1	20240201	Cloudy	Moderate	Mid-Flood	Bottom	6.2	10:12	7.50	8.10	33.00	18.64	2.80	3	0.174	NW	/
M1	20240201	Cloudy	Moderate	Mid-Flood	Bottom	6.2	10:12	7.51	8.05	33.02	18.66	2.64	5	0.182	NW	/
M2	20240201	Cloudy	Moderate	Mid-Flood	Surface	1	10:30	7.94	8.11	33.30	18.87	2.87	3	0.173	NW	/
M2	20240201	Cloudy	Moderate	Mid-Flood	Surface	1	10:30	7.89	8.08	33.31	18.84	2.99	2.5	0.168	NW	/
M2	20240201	Cloudy	Moderate	Mid-Flood	Middle	6.8	10:29	7.89	8.12	33.36	18.85	2.67	4	0.209	NW	/
M2	20240201	Cloudy	Moderate	Mid-Flood	Middle	6.8	10:29	7.95	8.08	33.34	18.85	2.79	4	0.186	NW	/
M2	20240201	Cloudy	Moderate	Mid-Flood	Bottom	12.6	10:28	7.88	8.06	33.32	18.91	2.72	4	0.220	NW	/
M2	20240201	Cloudy	Moderate	Mid-Flood	Bottom	12.6	10:28	7.89	8.12	33.33	18.88	2.64	4	0.186	NW	/
M3	20240201	Cloudy	Moderate	Mid-Flood	Surface	1	10:01	7.65	8.20	34.35	18.99	2.40	4	0.222	NW	/
M3	20240201	Cloudy	Moderate	Mid-Flood	Surface	1	10:01	7.61	8.20	34.32	18.99	2.46	3	0.191	N	/
M3	20240201	Cloudy	Moderate	Mid-Flood	Middle	3.9	10:00	7.67	8.23	34.31	19.04	2.71	4	0.178	NW	/
M3	20240201	Cloudy	Moderate	Mid-Flood	Middle	3.9	10:00	7.65	8.20	34.26	19.01	2.82	4	0.199	NW	/
M3	20240201	Cloudy	Moderate	Mid-Flood	Bottom	6.8	9:59	7.62	8.25	34.35	19.01	2.91	6	0.225	NW	/
M3	20240201	Cloudy	Moderate	Mid-Flood	Bottom	6.8	9:59	7.62	8.24	34.35	19.03	2.68	3	0.170	NW	/
M4	20240201	Cloudy	Moderate	Mid-Flood	Surface	1	11:37	7.53	8.06	33.95	18.71	1.60	4	0.182	NW	/
M4	20240201	Cloudy	Moderate	Mid-Flood	Surface	1	11:37	7.53	8.10	33.93	18.74	1.73	4	0.223	N	/
M4	20240201	Cloudy	Moderate	Mid-Flood	Bottom	3.5	11:36	7.49	8.08	33.87	18.74	1.74	5	0.189	NW	/
M4	20240201	Cloudy	Moderate	Mid-Flood	Bottom	3.5	11:36	7.53	8.06	33.89	18.74	1.91	6	0.213	NW	/
C1	20240203	Cloudy	Moderate	Mid-Flood	Surface	1	10:53	8.32	8.38	33.33	18.82	3.30	3	0.160	NW	/
C1	20240203	Cloudy	Moderate	Mid-Flood	Surface	1	10:53	8.20	8.33	33.40	18.80	3.47	3	0.208	NW	/
C1	20240203	Cloudy	Moderate	Mid-Flood	Middle	10.65	10:52	8.24	8.37	33.29	18.80	3.62	5	0.203	NW	/
C1	20240203	Cloudy	Moderate	Mid-Flood	Middle	10.65	10:52	8.27	8.33	33.30	18.80	3.56	3	0.162	NW	/
C1	20240203	Cloudy	Moderate	Mid-Flood	Bottom	20.3	10:51	8.26	8.34	33.37	18.84	3.56	3	0.225	NW	/
C1	20240203	Cloudy	Moderate	Mid-Flood	Bottom	20.3	10:51	8.20	8.33	33.31	18.80	3.54	3	0.212	NW	/
C2	20240203	Cloudy	Moderate	Mid-Flood	Surface	1	9:48	8.66	8.25	32.72	18.88	3.98	3	0.174	NW	/
C2	20240203	Cloudy	Moderate	Mid-Flood	Surface	1	9:48	8.53	8.27	32.74	18.88	3.95	4	0.223	NW	/
C2	20240203	Cloudy	Moderate	Mid-Flood	Middle	11.9	9:47	8.60	8.29	32.61	18.87	3.77	4	0.209	NW	/
C2	20240203	Cloudy	Moderate	Mid-Flood	Middle	11.9	9:47	8.52	8.24	32.66	18.89	3.96	3	0.189	NW	/
C2	20240203	Cloudy	Moderate	Mid-Flood	Bottom	22.8	9:46	8.54	8.22	32.64	18.89	3.87	3	0.168	N	/
C2	20240203	Cloudy	Moderate	Mid-Flood	Bottom	22.8	9:46	8.54	8.27	32.72	18.92	3.80	3	0.209	NW	/
M1	20240203	Cloudy	Moderate	Mid-Flood	Surface	1	10:14	8.01	8.41	34.36	18.78	3.32	2.5	0.214	NW	/
M1	20240203	Cloudy	Moderate	Mid-Flood	Surface	1	10:14	8.10	8.39	34.35	18.80	3.47	2.5	0.219	NW	/
M1	20240203	Cloudy	Moderate	Mid-Flood	Middle	3.25	10:13	8.11	8.36	34.21	18.80	3.54	3	0.223	NW	/
M1	20240203	Cloudy	Moderate	Mid-Flood	Middle	3.25	10:13	8.11	8.37	34.21	18.78	3.16	4	0.175	NW	/
M1	20240203	Cloudy	Moderate	Mid-Flood	Bottom	5.5	10:12	8.01	8.36	34.34	18.74	3.54	2.5	0.183	NW	/
M1	20240203	Cloudy	Moderate	Mid-Flood	Bottom	5.5	10:12	8.16	8.37	34.32	18.79	3.35	2.5	0.214	NW	/
M2	20240203	Cloudy	Moderate	Mid-Flood	Surface	1	10:27	8.36	8.12	34.14	18.87	3.17	2.5	0.208	NW	/
M2	20240203	Cloudy	Moderate	Mid-Flood	Surface	1	10:27	8.26	8.16	34.06	18.85	2.73	3	0.214	NW	/
M2	20240203	Cloudy	Moderate	Mid-Flood	Middle	6.45	10:26	8.25	8.13	34.09	18.85	2.99	3	0.176	NW	/
M2	20240203	Cloudy	Moderate	Mid-Flood	Middle	6.45	10:26	8.40	8.17	34.05	18.82	2.92	5	0.164	NW	/
M2	20240203	Cloudy	Moderate	Mid-Flood	Bottom	11.9	10:25	8.28	8.18	34.06	18.90	3.07	4	0.159	NW	/
M2	20240203	Cloudy	Moderate	Mid-Flood	Bottom	11.9	10:25	8.32	8.16	34.03	18.82	3.17	3	0.180	NW	/
M3	20240203	Cloudy	Moderate	Mid-Flood	Surface	1	10:02	8.83	8.35	32.97	18.79	3.12	5	0.222	NW	/
M3	20240203	Cloudy	Moderate	Mid-Flood	Surface	1	10:02	8.72	8.37	32.96	18.76	2.97	7	0.188	NW	/
M3	20240203	Cloudy	Moderate	Mid-Flood	Middle	3.9	10:01	8.75	8.36	33.03	18.76	3.22	4	0.166	NW	/
M3	20240203	Cloudy	Moderate	Mid-Flood	Middle	3.9	10:01	8.81	8.39	32.99	18.81	3.19	2.5	0.178	NW	/
M3	20240203	Cloudy	Moderate	Mid-Flood	Bottom	6.8	10:00	8.87	8.36	33.00	18.76	3.02	3	0.213	NW	/
M3	20240203	Cloudy	Moderate	Mid-Flood	Bottom	6.8	10:00	8.86	8.40	33.01	18.78	3.14	2.5	0.194	N	/
M4	20240203	Cloudy	Moderate	Mid-Flood	Surface	1	11:15	7.66	8.31	33.54	18.82	3.20	5	0.186	N	/
M4	20240203	Cloudy	Moderate	Mid-Flood	Surface	1	11:15	7.70	8.33	33.53	18.83	2.88	4	0.225	NW	/
M4	20240203	Cloudy	Moderate	Mid-Flood	Bottom	3.9	11:14	7.77	8.29	33.60	18.83	3.17	2.5	0.186	N	/
M4	20240203	Cloudy	Moderate	Mid-Flood	Bottom	3.9	11:14	7.66	8.30	33.64	18.80	3.26	3	0.223	NW	/
C1	20240205	Cloudy	Moderate	Mid-Flood	Surface	1	9:27	8.38	8.21	33.41	19.76	3.08	3	0.206	N	/
C1	20240205	Cloudy	Moderate	Mid-Flood	Surface	1	9:27	8.40	8.26	33.41	19.72	2.96	4	0.201	NW	/
C1	20240205	Cloudy	Moderate	Mid-Flood	Middle	11.8	9:26	8.35	8.26	33.33	19.75	2.86	5	0.159	N	/
C1	20240205	Cloudy	Moderate	Mid-Flood	Middle	11.8	9:26	8.38	8.25	33.39	19.79	2.96	5	0.207	NW	/
C1	20240205	Cloudy	Moderate	Mid-Flood	Bottom	22.6	9:25	8.28	8.21	33.42	19.76	3.14	5	0.202	NW	/
C1	20240205	Cloudy	Moderate	Mid-Flood	Bottom	22.6	9:25	8.28	8.20	33.34	19.75	2.95	3	0.193	NW	/
C2	20240205	Cloudy	Moderate	Mid-Flood	Surface	1	8:18	8.80	8.40	33.21	19.72	3.32	3	0.204	NW	/
C2	20240205	Cloudy	Moderate	Mid-Flood	Surface	1	8:18	8.79	8.41	33.20	19.70	3.43	4	0.188	NW	/
C2	20240205	Cloudy	Moderate	Mid-Flood	Middle	11.25	8:17	8.73	8.40	33.26	19.69	3.52	2.5	0.191	NW	/
C2	20240205	Cloudy	Moderate	Mid-Flood	Middle	11.25	8:17	8.70	8.39	33.21	19.68	3.48	3	0.225	N	/
C2	20240205	Cloudy	Moderate	Mid-Flood	Bottom	21.5	8:16	8.78	8.38	33.21	19.72	3.51	2.5	0.196	NW	/
C2	20240205	Cloudy	Moderate	Mid-Flood	Bottom	21.5	8:16	8.71	8.40	33.17	19.66	3.67	3	0.209	NW	/
M1	20240205	Cloudy	Moderate	Mid-Flood	Surface	1	8:49	8.34	8.26	33.38	19.34	3.08	3	0.181	NW	/
M1	20240205	Cloudy	Moderate	Mid-Flood	Surface	1	8:49	8.30	8.33	33.41	19.40	2.83	3	0.182	NW	/
M1	20240205	Cloudy	Moderate	Mid-Flood	Middle	3.7	8:48	8.31	8.31	33.34	19.40	3.20	3	0.165	NW	/
M1	20240205	Cloudy	Moderate	Mid-Flood	Middle	3.7	8:48	8.31	8.33	33.36	19.40	2.95	3	0.217	NW	/
M1	20240205	Cloudy	Moderate	Mid-Flood	Bottom	6.4	8:47	8.32	8.28	33.29	19.35	3.17	3	0.200	NW	/
M1	20240205	Cloudy	Moderate	Mid-Flood	Bottom	6.4	8:47	8.32	8.30	33.33	19.36	2.97	4	0.183	N	/
M2	20240205	Cloudy	Moderate	Mid-Flood	Surface	1	8:34	8.33	8.34	32.67	19.61	2.41	3	0.164	NW	/
M2	20240205	Cloudy	Moderate	Mid-Flood	Surface	1	8:34	8.36	8.30	32.66	19.60	2.38	3	0.175	NW	/
M2	20240205	Cloudy	Moderate	Mid-Flood	Middle	6.05	8:33	8.39	8.34	32.58	19.58	2.03	4	0.215	NW	/
M2	20240205	Cloudy	Moderate	Mid-Flood	Middle	6.05	8:33	8.34	8.34	32.63	19.65	1.89	2.5	0.186	NW	/
M2	20240205	Cloudy	Moderate	Mid-Flood	Bottom	11.1	8:32	8.39	8.32	32.60	19.65	2.41	3	0.178	N	/
M2	20240205	Cloudy	Moderate	Mid-Flood	Bottom	11.1	8:32	8.32	8.36	32.69	19.65	2.07	2.5	0.170	NW	/
M3	20240205	Cloudy	Moderate	Mid-Flood	Surface	1	9:01	9.11	8.40	32.47	19.82	3.00	2.5	0.202	NW	/
M3	20240205	Cloudy	Moderate	Mid-Flood	Surface	1	9:01	9.10	8.39	32.50	19.83	2.97	2.5	0.188	NW	/
M3	20240205	Cloudy	Moderate	Mid-Flood	Middle	3.75	9:00	9.11	8.39	32.49	19.79	3.37	2.5	0.178	NW	/
M3	20240205	Cloudy	Moderate	Mid-Flood	Middle	3.75	9:00	9.16	8.39	32.45	19.81	3.03	3	0.161	NW	/
M3	20240205	Cloudy	Moderate	Mid-Flood	Bottom	6.5	8:59	9.13	8.46	32.46	19.84	3.20	2.5	0.209	NW	/
M3	20240205	Cloudy	Moderate	Mid-Flood	Bottom	6.5	8:59	9.17	8.39	32.48	19.80	3.09	3	0.173	NW	/
M4	20240205	Cloudy	Moderate	Mid-Flood	Surface	1	9:55	8.07	8.41	33.16	19.63	3.20	2.5	0.212	NW	/
M4	20240205	Cloudy	Moderate	Mid-Flood	Surface	1	9:55	8.05	8.40	33.13	19.60	2.97	2.5	0.223	N	/
M4	20240205	Cloudy	Moderate	Mid-Flood	Bottom	3.9	9:54	8.14	8.39	33.16	19.64	3.00	3	0.208	N	/
M4	20240205	Cloudy	Moderate	Mid-Flood	Bottom	3.9	9:54	8.04	8.39	33.07	19.64	3.09	3	0.179	NW	/

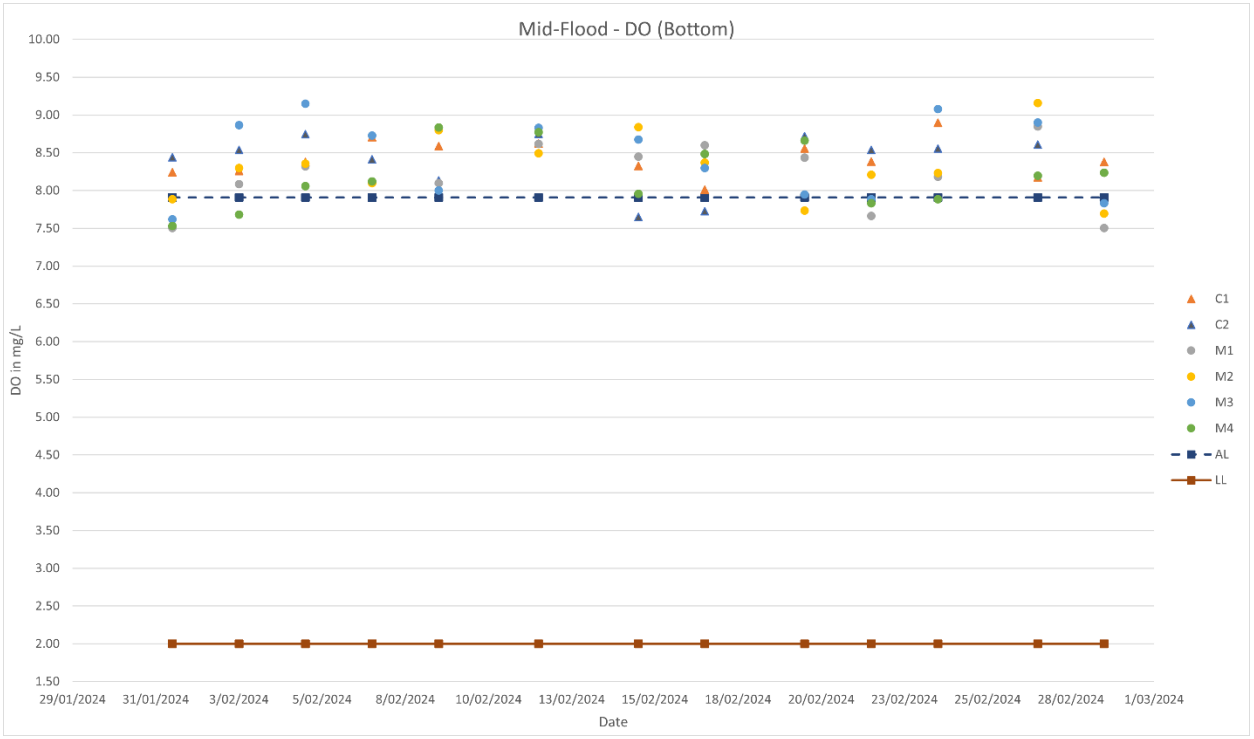
C1	20240207	Cloudy	Moderate	Mid-Flood	Surface	1	9:50	8.73	8.01	32.62	19.16	3.25	2.5	0.168	NW	/
C1	20240207	Cloudy	Moderate	Mid-Flood	Surface	1	9:50	8.70	7.99	32.59	19.12	3.12	2.5	0.178	NW	/
C1	20240207	Cloudy	Moderate	Mid-Flood	Middle	11.15	9:49	8.73	7.99	32.68	19.11	3.19	2.5	0.185	NW	/
C1	20240207	Cloudy	Moderate	Mid-Flood	Middle	11.15	9:49	8.66	8.04	32.66	19.15	3.09	2.5	0.220	NW	/
C1	20240207	Cloudy	Moderate	Mid-Flood	Bottom	21.3	9:48	8.73	7.98	32.66	19.07	3.36	3	0.193	NW	/
C1	20240207	Cloudy	Moderate	Mid-Flood	Bottom	21.3	9:48	8.74	8.02	32.67	19.15	3.20	4	0.210	N	/
C2	20240207	Cloudy	Moderate	Mid-Flood	Surface	1	8:43	8.36	8.09	33.56	19.07	3.64	3	0.208	N	/
C2	20240207	Cloudy	Moderate	Mid-Flood	Surface	1	8:43	8.37	8.13	33.56	19.10	3.66	2.5	0.213	NW	/
C2	20240207	Cloudy	Moderate	Mid-Flood	Middle	12.7	8:42	8.43	8.17	33.58	19.10	3.64	2.5	0.170	NW	/
C2	20240207	Cloudy	Moderate	Mid-Flood	Middle	12.7	8:42	8.42	8.15	33.52	19.06	3.73	2.5	0.208	NW	/
C2	20240207	Cloudy	Moderate	Mid-Flood	Bottom	24.4	8:41	8.40	8.10	33.50	19.09	3.56	4	0.172	NW	/
C2	20240207	Cloudy	Moderate	Mid-Flood	Bottom	24.4	8:41	8.43	8.10	33.47	19.09	3.51	2.5	0.170	NW	/
M1	20240207	Cloudy	Moderate	Mid-Flood	Surface	1	9:12	8.13	8.24	32.60	19.08	3.43	3	0.184	NW	/
M1	20240207	Cloudy	Moderate	Mid-Flood	Surface	1	9:12	8.04	8.19	32.66	19.17	3.31	3	0.167	NW	/
M1	20240207	Cloudy	Moderate	Mid-Flood	Middle	3.55	9:11	8.11	8.22	32.69	19.10	2.90	3	0.219	NW	/
M1	20240207	Cloudy	Moderate	Mid-Flood	Middle	3.55	9:11	8.05	8.15	32.68	19.15	3.13	3	0.206	NW	/
M1	20240207	Cloudy	Moderate	Mid-Flood	Bottom	6.1	9:10	8.11	8.21	32.67	19.07	3.22	3	0.175	NW	/
M1	20240207	Cloudy	Moderate	Mid-Flood	Bottom	6.1	9:10	8.12	8.21	32.62	19.14	3.32	2.5	0.168	NW	/
M2	20240207	Cloudy	Moderate	Mid-Flood	Surface	1	9:26	8.06	8.07	32.87	18.94	2.55	2.5	0.205	NW	/
M2	20240207	Cloudy	Moderate	Mid-Flood	Surface	1	9:26	8.12	8.12	32.81	18.83	2.86	2.5	0.177	NW	/
M2	20240207	Cloudy	Moderate	Mid-Flood	Middle	5.95	9:25	8.02	8.13	32.88	18.90	2.53	3	0.222	NW	/
M2	20240207	Cloudy	Moderate	Mid-Flood	Middle	5.95	9:25	8.03	8.13	32.82	18.87	2.85	2.5	0.195	N	/
M2	20240207	Cloudy	Moderate	Mid-Flood	Bottom	10.9	9:24	8.12	8.10	32.85	18.91	2.60	3	0.193	NW	/
M2	20240207	Cloudy	Moderate	Mid-Flood	Bottom	10.9	9:24	8.08	8.09	32.87	18.89	2.58	3	0.180	NW	/
M3	20240207	Cloudy	Moderate	Mid-Flood	Surface	1	8:57	8.78	8.23	33.94	19.03	2.73	2.5	0.175	NW	/
M3	20240207	Cloudy	Moderate	Mid-Flood	Surface	1	8:57	8.80	8.18	33.98	18.95	2.72	2.5	0.190	NW	/
M3	20240207	Cloudy	Moderate	Mid-Flood	Middle	3.2	8:56	8.75	8.23	33.95	18.98	2.63	2.5	0.192	NW	/
M3	20240207	Cloudy	Moderate	Mid-Flood	Middle	3.2	8:56	8.84	8.22	33.98	19.02	2.72	2.5	0.200	NW	/
M3	20240207	Cloudy	Moderate	Mid-Flood	Bottom	5.4	8:55	8.73	8.16	33.90	18.96	2.51	2.5	0.216	NW	/
M3	20240207	Cloudy	Moderate	Mid-Flood	Bottom	5.4	8:55	8.73	8.23	33.96	19.04	2.42	3	0.218	NW	/
M4	20240207	Cloudy	Moderate	Mid-Flood	Surface	1	10:12	8.09	8.21	33.00	19.06	3.09	3	0.212	NW	/
M4	20240207	Cloudy	Moderate	Mid-Flood	Surface	1	10:12	8.15	8.25	33.02	19.10	2.87	3	0.197	NW	/
M4	20240207	Cloudy	Moderate	Mid-Flood	Bottom	3.9	10:11	8.09	8.17	32.99	19.09	3.06	3	0.192	N	/
M4	20240207	Cloudy	Moderate	Mid-Flood	Bottom	3.9	10:11	8.09	8.21	33.03	19.05	3.06	3	0.207	NW	/
C1	20240209	Cloudy	Moderate	Mid-Flood	Surface	1	9:02	8.60	8.27	33.54	20.03	2.85	3	0.174	NW	/
C1	20240209	Cloudy	Moderate	Mid-Flood	Surface	1	9:02	8.57	8.24	33.62	20.05	3.04	2.5	0.191	N	/
C1	20240209	Cloudy	Moderate	Mid-Flood	Middle	9.85	9:01	8.59	8.30	33.56	20.09	3.08	7	0.177	NW	/
C1	20240209	Cloudy	Moderate	Mid-Flood	Middle	9.85	9:01	8.58	8.29	33.47	20.04	2.86	6	0.185	N	/
C1	20240209	Cloudy	Moderate	Mid-Flood	Bottom	18.7	9:00	8.55	8.22	33.60	20.08	2.97	11	0.201	NW	/
C1	20240209	Cloudy	Moderate	Mid-Flood	Bottom	18.7	9:00	8.55	8.23	33.49	20.11	2.82	12	0.191	NW	/
C2	20240209	Cloudy	Moderate	Mid-Flood	Surface	1	8:02	8.16	8.32	33.17	19.75	3.22	12	0.175	NW	/
C2	20240209	Cloudy	Moderate	Mid-Flood	Surface	1	8:02	8.14	8.40	33.21	19.79	3.36	11	0.190	N	/
C2	20240209	Cloudy	Moderate	Mid-Flood	Middle	11.5	8:01	8.06	8.38	33.27	19.75	3.45	8	0.179	NW	/
C2	20240209	Cloudy	Moderate	Mid-Flood	Middle	11.5	8:01	8.17	8.37	33.23	19.76	3.35	10	0.221	NW	/
C2	20240209	Cloudy	Moderate	Mid-Flood	Bottom	22	8:00	8.15	8.40	33.17	19.82	3.57	11	0.205	NW	/
C2	20240209	Cloudy	Moderate	Mid-Flood	Bottom	22	8:00	8.12	8.40	33.17	19.81	3.48	12	0.179	NW	/
M1	20240209	Cloudy	Moderate	Mid-Flood	Surface	1	8:27	8.16	8.41	33.95	19.95	2.23	12	0.213	NW	/
M1	20240209	Cloudy	Moderate	Mid-Flood	Surface	1	8:27	8.15	8.45	34.01	19.95	1.97	11	0.179	NW	/
M1	20240209	Cloudy	Moderate	Mid-Flood	Middle	3.65	8:26	8.18	8.41	34.01	19.93	1.98	6	0.173	NW	/
M1	20240209	Cloudy	Moderate	Mid-Flood	Middle	3.65	8:26	8.15	8.45	33.98	19.89	2.25	7	0.214	NW	/
M1	20240209	Cloudy	Moderate	Mid-Flood	Bottom	6.3	8:25	8.08	8.37	34.01	19.87	1.99	6	0.211	NW	/
M1	20240209	Cloudy	Moderate	Mid-Flood	Bottom	6.3	8:25	8.12	8.37	34.07	19.91	1.88	9	0.204	NW	/
M2	20240209	Cloudy	Moderate	Mid-Flood	Surface	1	8:40	8.79	8.22	34.19	19.76	1.86	5	0.220	NW	/
M2	20240209	Cloudy	Moderate	Mid-Flood	Surface	1	8:40	8.86	8.21	34.22	19.77	1.84	4	0.205	NW	/
M2	20240209	Cloudy	Moderate	Mid-Flood	Middle	6	8:39	8.84	8.14	34.21	19.77	1.85	12	0.212	NW	/
M2	20240209	Cloudy	Moderate	Mid-Flood	Middle	6	8:39	8.74	8.22	34.24	19.83	1.72	12	0.165	NW	/
M2	20240209	Cloudy	Moderate	Mid-Flood	Bottom	11	8:38	8.80	8.20	34.19	19.79	1.83	6	0.163	NW	/
M2	20240209	Cloudy	Moderate	Mid-Flood	Bottom	11	8:38	8.80	8.23	34.12	19.77	1.96	4	0.191	N	/
M3	20240209	Cloudy	Moderate	Mid-Flood	Surface	1	8:15	8.02	8.18	33.70	19.99	1.96	10	0.224	N	/
M3	20240209	Cloudy	Moderate	Mid-Flood	Surface	1	8:15	8.08	8.16	33.60	20.07	2.33	8	0.161	N	/
M3	20240209	Cloudy	Moderate	Mid-Flood	Middle	4.05	8:14	8.10	8.20	33.60	19.99	1.99	9	0.167	N	/
M3	20240209	Cloudy	Moderate	Mid-Flood	Middle	4.05	8:14	8.06	8.23	33.61	19.99	2.13	7	0.169	NW	/
M3	20240209	Cloudy	Moderate	Mid-Flood	Bottom	7.1	8:13	8.01	8.16	33.61	20.05	1.89	2.5	0.173	NW	/
M3	20240209	Cloudy	Moderate	Mid-Flood	Bottom	7.1	8:13	7.99	8.18	33.60	19.99	2.06	3	0.158	NW	/
M4	20240209	Cloudy	Moderate	Mid-Flood	Surface	1	9:26	8.87	8.43	32.88	19.67	2.43	8	0.189	NW	/
M4	20240209	Cloudy	Moderate	Mid-Flood	Surface	1	9:26	8.80	8.40	32.89	19.69	2.83	10	0.184	N	/
M4	20240209	Cloudy	Moderate	Mid-Flood	Bottom	4.5	9:25	8.81	8.42	32.80	19.66	2.66	8	0.167	NW	/
M4	20240209	Cloudy	Moderate	Mid-Flood	Bottom	4.5	9:25	8.90	8.36	32.93	19.63	2.42	9	0.176	NW	/
C1	20240212	Sunny	Moderate	Mid-Flood	Surface	1	9:18	8.61	8.17	33.09	20.20	2.78	2.5	0.207	N	/
C1	20240212	Sunny	Moderate	Mid-Flood	Surface	1	9:18	8.63	8.18	33.31	20.22	2.77	4	0.196	NW	/
C1	20240212	Sunny	Moderate	Mid-Flood	Middle	11.8	9:17	8.66	8.13	33.18	20.23	2.80	2.5	0.187	NW	/
C1	20240212	Sunny	Moderate	Mid-Flood	Middle	11.8	9:17	8.59	8.18	33.17	20.22	3.04	3	0.174	NW	/
C1	20240212	Sunny	Moderate	Mid-Flood	Bottom	22.6	9:16	8.54	8.12	33.17	20.17	2.91	4	0.175	NW	/
C1	20240212	Sunny	Moderate	Mid-Flood	Bottom	22.6	9:16	8.65	8.18	33.11	20.22	3.15	3	0.172	NW	/
C2	20240212	Sunny	Moderate	Mid-Flood	Surface	1	8:13	8.78	8.10	34.03	19.98	3.00	3	0.166	NW	/
C2	20240212	Sunny	Moderate	Mid-Flood	Surface	1	8:13	8.71	8.11	33.89	19.95	3.06	3	0.167	NW	/
C2	20240212	Sunny	Moderate	Mid-Flood	Middle	11.8	8:12	8.78	8.14	34.04	19.98	3.13	3	0.200	NW	/
C2	20240212	Sunny	Moderate	Mid-Flood	Middle	11.8	8:12	8.76	8.09	33.90	19.99	3.01	3	0.179	NW	/
C2	20240212	Sunny	Moderate	Mid-Flood	Bottom	22.6	8:11	8.71	8.13	33.88	19.94	3.15	2.5	0.217	NW	/
C2	20240212	Sunny	Moderate	Mid-Flood	Bottom	22.6	8:11	8.79	8.12	34.02	19.94	3.17	3	0.222	NW	/
M1	20240212	Sunny	Moderate	Mid-Flood	Surface	1	8:40	8.61	8.25	33.84	20.14	2.11	3	0.215	N	/
M1	20240212	Sunny	Moderate	Mid-Flood	Surface	1	8:40	8.63	8.26	33.68	20.12	1.99	3	0.176	N	/
M1	20240212	Sunny	Moderate	Mid-Flood	Middle	3.3	8:39	8.68	8.22	33.78	20.10	1.92	3	0.172	NW	/
M1	20240212	Sunny	Moderate	Mid-Flood	Middle	3.3	8:39	8.66	8.24	33.76	20.17	2.04	2.5	0.196	NW	/
M1	20240212	Sunny	Moderate	Mid-Flood	Bottom	5.6	8:38	8.65	8.19	33.80	20.10	1.86	4	0.198	NW	/
M1	20240212	Sunny	Moderate	Mid-Flood	Bottom	5.6	8:38	8.59	8.25	33.79	20.10	2.07	4	0.203	N	/
M2	20240212	Sunny	Moderate	Mid-Flood	Surface	1	8:55	8.44	8.22	32.95	20.15	2.19	3	0.206	NW	/
M2	20240212	Sunny	Moderate	Mid-Flood	Surface	1	8:55	8.52	8.23	33.05	20.16	2.07	4	0.193	NW	/
M2	20240212	Sunny	Moderate	Mid-Flood	Middle	6.4	8:54	8.45	8.27	32.93	20.16	1.73	2.5	0.162	N	/
M2	20240212	Sunny	Moderate	Mid-Flood	Middle	6.4	8:54	8.46	8.26	32.97	20.15	1.85	3	0.207	NW	/
M2	20240212	Sunny	Moderate	Mid-Flood	Bottom	11.8	8:53	8.48	8.23	33.15	20.15	1.78	2.5	0.194	NW	/
M2	20240212	Sunny	Moderate	Mid-Flood	Bottom	11.8	8:53	8.51	8.25	33.02	20.14	2.03	3	0.164	NW	/
M3	20240212	Sunny	Moderate	Mid-Flood	Surface	1	8:27	8.82	8.12	34.22	20.20	2.17	3	0.206	NW	/
M3	20240212	Sunny	Moderate	Mid-Flood	Surface	1	8:27	8.86	8.17	34.35	20.26	2.52	3	0.188	NW	/
M3	20240212	Sunny	Moderate	Mid-Flood	Middle	3.9	8:26	8.79	8.15	34.43	20.25	2.25	2.5	0.178	NW	/
M3	20240212	Sunny	Moderate	Mid-Flood	Middle	3.9	8:26	8.84	8.12	34.32	20.19	2.62	2.5	0.219	NW	/
M3	20240212	Sunny	Moderate	Mid-Flood	Bottom	6.8	8:25	8.82	8.14	34.38	20.23	2.32	3	0.225	NW	/
M3	20240212	Sunny	Moderate	Mid-Flood	Bottom	6.8	8:25	8.84	8.18	34.43	20.20	2.32	3	0.212	NW	/
M4	20240212	Sunny	Moderate	Mid-Flood	Surface	1	9:41	8.77	8.16	33.67	20.06	2.33	3	0.198	N	/
M4	20240212	Sunny	Moderate	Mid-Flood	Surface	1	9:41	8.78	8.11	33.80	20.07	2.22	3	0.176	NW	/
M4	20240212	Sunny	Moderate	Mid-Flood	Bottom	4.4	9:39	8.76	8.11	33.77	20.09	1.91	2.5	0.164	NW	/
M4	20240212	Sunny	Moderate	Mid-Flood	Bottom	4.4	9:39	8.72	8.08	33.65	20.08	2.15	2.5	0.175	NW	/

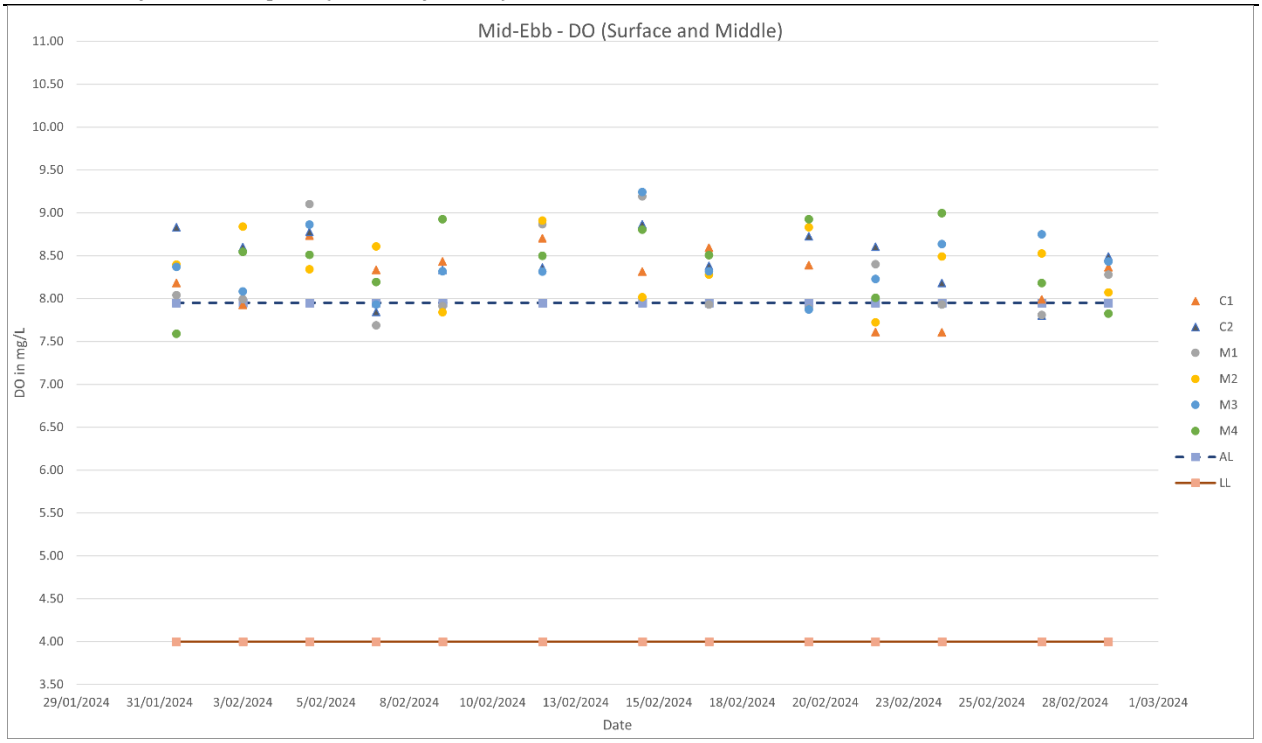
C1	20240215	Sunny	Moderate	Mid-Flood	Surface	1	9:38	8.34	8.18	33.77	21.12	3.31	2.5	0.221	NW	/
C1	20240215	Sunny	Moderate	Mid-Flood	Surface	1	9:38	8.28	8.25	33.74	21.13	3.33	4	0.208	NW	/
C1	20240215	Sunny	Moderate	Mid-Flood	Middle	9.95	9:37	8.31	8.21	33.78	21.02	3.15	2.5	0.219	NW	/
C1	20240215	Sunny	Moderate	Mid-Flood	Middle	9.95	9:37	8.37	8.23	33.76	21.13	3.29	3	0.220	NW	/
C1	20240215	Sunny	Moderate	Mid-Flood	Bottom	18.9	9:36	8.28	8.23	33.77	21.02	3.22	4	0.182	NW	/
C1	20240215	Sunny	Moderate	Mid-Flood	Bottom	18.9	9:36	8.34	8.22	33.76	21.01	3.24	3	0.211	NW	/
C2	20240215	Sunny	Moderate	Mid-Flood	Surface	1	8:35	7.66	8.28	33.50	21.33	3.97	3	0.186	NW	/
C2	20240215	Sunny	Moderate	Mid-Flood	Surface	1	8:35	7.73	8.28	33.49	21.37	4.23	3	0.199	NW	/
C2	20240215	Sunny	Moderate	Mid-Flood	Middle	11.1	8:34	7.66	8.27	33.52	21.32	4.06	3	0.211	NW	/
C2	20240215	Sunny	Moderate	Mid-Flood	Middle	11.1	8:34	7.64	8.26	33.52	21.30	4.05	3	0.186	NW	/
C2	20240215	Sunny	Moderate	Mid-Flood	Bottom	21.2	8:33	7.64	8.26	33.47	21.27	3.88	2.5	0.170	NW	/
C2	20240215	Sunny	Moderate	Mid-Flood	Bottom	21.2	8:33	7.66	8.28	33.48	21.35	3.92	3	0.172	NW	/
M1	20240215	Sunny	Moderate	Mid-Flood	Surface	1	8:59	8.53	8.22	33.02	20.99	3.44	3	0.174	NW	/
M1	20240215	Sunny	Moderate	Mid-Flood	Surface	1	8:59	8.45	8.21	32.95	21.00	3.21	3	0.166	NW	/
M1	20240215	Sunny	Moderate	Mid-Flood	Middle	3.4	8:58	8.47	8.20	33.01	21.03	3.29	3	0.207	NW	/
M1	20240215	Sunny	Moderate	Mid-Flood	Middle	3.4	8:58	8.52	8.21	32.96	21.06	3.57	2.5	0.215	N	/
M1	20240215	Sunny	Moderate	Mid-Flood	Bottom	5.8	8:57	8.41	8.22	32.92	20.99	3.33	4	0.204	NW	/
M1	20240215	Sunny	Moderate	Mid-Flood	Bottom	5.8	8:57	8.49	8.21	33.02	21.05	3.36	4	0.224	NW	/
M2	20240215	Sunny	Moderate	Mid-Flood	Surface	1	9:12	8.82	8.28	33.69	21.01	3.20	3	0.202	NW	/
M2	20240215	Sunny	Moderate	Mid-Flood	Surface	1	9:12	8.90	8.33	33.61	20.93	2.94	4	0.176	N	/
M2	20240215	Sunny	Moderate	Mid-Flood	Middle	6.05	9:11	8.86	8.35	33.61	21.01	3.12	2.5	0.203	N	/
M2	20240215	Sunny	Moderate	Mid-Flood	Middle	6.05	9:11	8.89	8.33	33.62	21.05	3.06	3	0.223	NW	/
M2	20240215	Sunny	Moderate	Mid-Flood	Bottom	11.1	9:10	8.81	8.28	33.72	20.94	3.24	2.5	0.168	NW	/
M2	20240215	Sunny	Moderate	Mid-Flood	Bottom	11.1	9:10	8.87	8.28	33.66	20.98	3.15	3	0.205	NW	/
M3	20240215	Sunny	Moderate	Mid-Flood	Surface	1	8:47	8.77	8.26	33.84	20.93	3.17	3	0.184	NW	/
M3	20240215	Sunny	Moderate	Mid-Flood	Surface	1	8:47	8.70	8.30	33.80	21.05	3.33	3	0.195	NW	/
M3	20240215	Sunny	Moderate	Mid-Flood	Middle	3.3	8:46	8.77	8.26	33.87	21.03	2.93	2.5	0.181	NW	/
M3	20240215	Sunny	Moderate	Mid-Flood	Middle	3.3	8:46	8.65	8.24	33.80	20.93	3.13	2.5	0.168	NW	/
M3	20240215	Sunny	Moderate	Mid-Flood	Bottom	5.6	8:45	8.66	8.26	33.81	20.95	3.40	3	0.222	NW	/
M3	20240215	Sunny	Moderate	Mid-Flood	Bottom	5.6	8:45	8.69	8.23	33.89	20.93	3.02	3	0.192	NW	/
M4	20240215	Sunny	Moderate	Mid-Flood	Surface	1	10:01	7.96	8.25	32.73	21.16	3.72	3	0.197	N	/
M4	20240215	Sunny	Moderate	Mid-Flood	Surface	1	10:01	7.95	8.26	32.78	21.16	3.72	3	0.212	NW	/
M4	20240215	Sunny	Moderate	Mid-Flood	Bottom	3.5	10:00	8.05	8.26	32.71	21.11	3.39	2.5	0.191	NW	/
M4	20240215	Sunny	Moderate	Mid-Flood	Bottom	3.5	10:00	7.99	8.26	32.76	21.12	3.47	2.5	0.218	NW	/
C1	20240217	Sunny	Moderate	Mid-Flood	Surface	1	11:02	8.00	8.09	32.27	21.51	3.03	2.5	0.159	N	/
C1	20240217	Sunny	Moderate	Mid-Flood	Surface	1	11:02	8.03	8.17	32.40	21.50	3.06	2.5	0.189	N	/
C1	20240217	Sunny	Moderate	Mid-Flood	Middle	11.6	11:01	7.99	8.11	32.29	21.49	2.92	2.5	0.178	N	/
C1	20240217	Sunny	Moderate	Mid-Flood	Middle	11.6	11:01	8.02	8.14	32.27	21.53	2.94	2.5	0.189	N	/
C1	20240217	Sunny	Moderate	Mid-Flood	Bottom	22.2	11:00	7.97	8.14	32.50	21.57	3.11	2.5	0.169	NW	/
C1	20240217	Sunny	Moderate	Mid-Flood	Bottom	22.2	11:00	8.04	8.12	32.43	21.54	2.77	3	0.194	N	/
C2	20240217	Sunny	Moderate	Mid-Flood	Surface	1	9:57	7.72	8.02	32.01	21.65	3.14	4	0.214	NW	/
C2	20240217	Sunny	Moderate	Mid-Flood	Surface	1	9:57	7.73	8.05	31.99	21.57	3.23	2.5	0.166	N	/
C2	20240217	Sunny	Moderate	Mid-Flood	Middle	10.85	9:56	7.71	8.08	31.91	21.64	3.42	3	0.172	N	/
C2	20240217	Sunny	Moderate	Mid-Flood	Middle	10.85	9:56	7.68	8.03	32.09	21.66	3.28	3	0.159	NW	/
C2	20240217	Sunny	Moderate	Mid-Flood	Bottom	20.7	9:55	7.73	8.03	32.15	21.66	3.45	5	0.180	NW	/
C2	20240217	Sunny	Moderate	Mid-Flood	Bottom	20.7	9:55	7.72	8.10	32.14	21.65	3.32	5	0.219	NW	/
M1	20240217	Sunny	Moderate	Mid-Flood	Surface	1	10:21	8.65	8.16	32.22	21.81	2.53	4	0.170	NW	/
M1	20240217	Sunny	Moderate	Mid-Flood	Surface	1	10:21	8.57	8.13	32.19	21.74	2.48	3	0.180	NW	/
M1	20240217	Sunny	Moderate	Mid-Flood	Middle	3.25	10:20	8.62	8.15	32.17	21.82	2.70	3	0.220	NW	/
M1	20240217	Sunny	Moderate	Mid-Flood	Middle	3.25	10:20	8.63	8.13	32.26	21.83	2.79	3	0.160	NW	/
M1	20240217	Sunny	Moderate	Mid-Flood	Bottom	5.5	10:19	8.58	8.17	32.23	21.80	2.85	3	0.215	NW	/
M1	20240217	Sunny	Moderate	Mid-Flood	Bottom	5.5	10:19	8.62	8.17	32.19	21.83	2.96	2.5	0.192	NW	/
M2	20240217	Sunny	Moderate	Mid-Flood	Surface	1	10:40	8.42	8.19	32.81	21.60	2.54	4	0.196	NW	/
M2	20240217	Sunny	Moderate	Mid-Flood	Surface	1	10:40	8.45	8.20	32.69	21.60	2.53	3	0.184	NW	/
M2	20240217	Sunny	Moderate	Mid-Flood	Middle	6.55	10:39	8.38	8.25	32.75	21.64	2.11	2.5	0.204	NW	/
M2	20240217	Sunny	Moderate	Mid-Flood	Middle	6.55	10:39	8.38	8.20	32.84	21.56	2.43	3	0.161	NW	/
M2	20240217	Sunny	Moderate	Mid-Flood	Bottom	12.1	10:38	8.38	8.20	32.65	21.59	2.61	4	0.182	NW	/
M2	20240217	Sunny	Moderate	Mid-Flood	Bottom	12.1	10:38	8.36	8.23	32.82	21.56	2.52	3	0.175	NW	/
M3	20240217	Sunny	Moderate	Mid-Flood	Surface	1	10:08	8.34	8.18	32.30	21.52	2.58	3	0.200	NW	/
M3	20240217	Sunny	Moderate	Mid-Flood	Surface	1	10:08	8.34	8.18	32.07	21.53	2.31	3	0.217	NW	/
M3	20240217	Sunny	Moderate	Mid-Flood	Middle	3.4	10:07	8.32	8.24	32.10	21.51	2.61	3	0.160	NW	/
M3	20240217	Sunny	Moderate	Mid-Flood	Middle	3.4	10:07	8.26	8.24	32.34	21.50	2.34	3	0.178	N	/
M3	20240217	Sunny	Moderate	Mid-Flood	Bottom	5.8	10:06	8.27	8.24	32.28	21.47	2.45	2.5	0.164	NW	/
M3	20240217	Sunny	Moderate	Mid-Flood	Bottom	5.8	10:06	8.33	8.20	32.12	21.52	2.38	3	0.170	NW	/
M4	20240217	Sunny	Moderate	Mid-Flood	Surface	1	11:28	8.50	8.22	32.57	21.50	2.39	2.5	0.178	NW	/
M4	20240217	Sunny	Moderate	Mid-Flood	Surface	1	11:28	8.47	8.27	32.75	21.51	2.42	3	0.201	NW	/
M4	20240217	Sunny	Moderate	Mid-Flood	Bottom	3.9	11:27	8.51	8.23	32.56	21.46	2.32	3	0.223	NW	/
M4	20240217	Sunny	Moderate	Mid-Flood	Bottom	3.9	11:27	8.53	8.26	32.74	21.48	2.33	3	0.209	NW	/
C1	20240220	Sunny	Moderate	Mid-Flood	Surface	1	10:01	8.57	8.33	32.79	22.02	2.66	2.5	0.183	NW	/
C1	20240220	Sunny	Moderate	Mid-Flood	Surface	1	10:01	8.54	8.37	32.76	22.02	2.76	2.5	0.216	N	/
C1	20240220	Sunny	Moderate	Mid-Flood	Middle	10.3	10:00	8.54	8.36	32.84	22.03	2.65	2.5	0.183	NW	/
C1	20240220	Sunny	Moderate	Mid-Flood	Middle	10.3	10:00	8.57	8.36	32.86	22.02	2.90	2.5	0.207	NW	/
C1	20240220	Sunny	Moderate	Mid-Flood	Bottom	19.6	9:59	8.51	8.35	32.74	22.06	2.71	3	0.190	NW	/
C1	20240220	Sunny	Moderate	Mid-Flood	Bottom	19.6	9:59	8.52	8.35	32.83	22.02	2.92	3	0.169	N	/
C2	20240220	Sunny	Moderate	Mid-Flood	Surface	1	8:55	8.71	8.13	32.35	22.09	3.85	3	0.194	NW	/
C2	20240220	Sunny	Moderate	Mid-Flood	Surface	1	8:55	8.75	8.14	32.40	22.11	3.82	3	0.188	NW	/
C2	20240220	Sunny	Moderate	Mid-Flood	Middle	12.1	8:54	8.72	8.09	32.38	22.12	3.65	3	0.198	NW	/
C2	20240220	Sunny	Moderate	Mid-Flood	Middle	12.1	8:54	8.78	8.11	32.39	22.09	3.78	3	0.172	N	/
C2	20240220	Sunny	Moderate	Mid-Flood	Bottom	23.2	8:53	8.72	8.11	32.27	22.08	3.71	3	0.200	NW	/
C2	20240220	Sunny	Moderate	Mid-Flood	Bottom	23.2	8:53	8.72	8.12	32.39	22.13	3.90	3	0.179	NW	/
M1	20240220	Sunny	Moderate	Mid-Flood	Surface	1	9:22	8.42	8.30	32.03	21.97	2.94	2.5	0.221	N	/
M1	20240220	Sunny	Moderate	Mid-Flood	Surface	1	9:22	8.41	8.28	32.02	21.91	2.70	3	0.179	NW	/
M1	20240220	Sunny	Moderate	Mid-Flood	Middle	3.5	9:21	8.42	8.30	32.09	21.93	2.85	3	0.207	NW	/
M1	20240220	Sunny	Moderate	Mid-Flood	Middle	3.5	9:21	8.48	8.36	32.13	21.98	2.91	3	0.164	NW	/
M1	20240220	Sunny	Moderate	Mid-Flood	Bottom	6	9:20	8.44	8.29	32.14	21.92	2.74	3	0.171	NW	/
M1	20240220	Sunny	Moderate	Mid-Flood	Bottom	6	9:20	8.43	8.27	32.18	21.96	3.16	3	0.206	NW	/
M2	20240220	Sunny	Moderate	Mid-Flood	Surface	1	9:38	7.78	8.23	31.97	21.90	2.55	3	0.178	NW	/
M2	20240220	Sunny	Moderate	Mid-Flood	Surface	1	9:38	7.78	8.23	31.79	21.96	2.76	3	0.179	NW	/
M2	20240220	Sunny	Moderate	Mid-Flood	Middle	6.3	9:37	7.77	8.19	31.93	21.94	2.74	3	0.189	N	/
M2	20240220	Sunny	Moderate	Mid-Flood	Middle	6.3	9:37	7.75	8.23	31.78	21.94	2.48	3	0.211	N	/
M2	20240220	Sunny	Moderate	Mid-Flood	Bottom	11.6	9:36	7.70	8.24	31.86	21.94	2.51	3	0.208	N	/
M2	20240220	Sunny	Moderate	Mid-Flood	Bottom	11.6	9:36	7.77	8.22	31.80	21.94	2.56	3	0.196	NW	/
M3	20240220	Sunny	Moderate	Mid-Flood	Surface	1	9:09	7.88	8.31	32.71	22.27	2.35	4	0.197	NW	/
M3	20240220	Sunny	Moderate	Mid-Flood	Surface	1	9:09	7.97	8.34	32.57	22.22	2.35	3	0.184	NW	/
M3	20240220	Sunny	Moderate	Mid-Flood	Middle	3.45	9:08	7.94	8.34	32.65	22.26	2.82	4	0.209	N	/
M3	20240220	Sunny	Moderate	Mid-Flood	Middle	3.45	9:08	7.91	8.29	32.57	22.21	2.45	3	0.214	N	/
M3	20240220	Sunny	Moderate	Mid-Flood	Bottom	5.9	9:07	7.94	8.35	32.53	22.20	2.67	4	0.194	NW	/
M3	20240220	Sunny	Moderate	Mid-Flood	Bottom	5.9	9:07	7.96	8.34	32.74	22.24	2.41	4	0.202	NW	/
M4	20240220	Sunny	Moderate	Mid-Flood	Surface	1	10:27	8.66	8.25	32.81	22.15	2.52	3	0.188	NW	/
M4	20240220	Sunny	Moderate	Mid-Flood	Surface	1	10:27	8.66	8.23	32.69	22.13	2.44	4	0.216	NW	/
M4	20240220	Sunny	Moderate	Mid-Flood	Bottom	4.7	10:26	8.64	8.22	32.60	22.14	2.71	3	0.189	NW	/
M4	20240220	Sunny	Moderate	Mid-Flood	Bottom	4.7	10:26	8.67	8.27	32.75	22.18	2.46	4	0.200	N	/

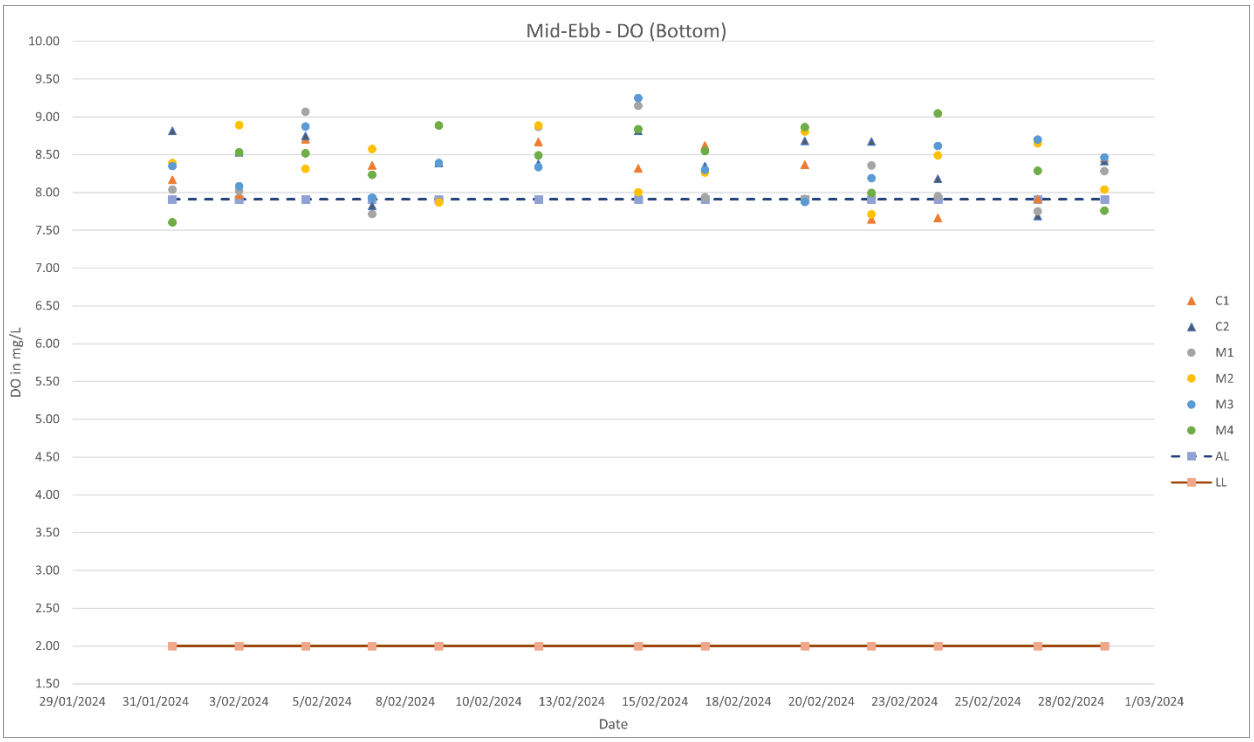
C1	20240222	Sunny	Moderate	Mid-Flood	Surface	1	16:00	8.35	8.36	32.55	22.30	3.13	2.5	0.167	N	/
C1	20240222	Sunny	Moderate	Mid-Flood	Surface	1	16:00	8.38	8.36	32.60	22.25	3.13	2.5	0.196	NW	/
C1	20240222	Sunny	Moderate	Mid-Flood	Middle	10	15:59	8.45	8.34	32.49	22.37	2.99	2.5	0.177	NW	/
C1	20240222	Sunny	Moderate	Mid-Flood	Middle	10	15:59	8.35	8.34	32.57	22.32	2.93	2.5	0.219	NW	/
C1	20240222	Sunny	Moderate	Mid-Flood	Bottom	19	15:58	8.41	8.34	32.59	22.32	2.74	2.5	0.217	NW	/
C1	20240222	Sunny	Moderate	Mid-Flood	Bottom	19	15:58	8.45	8.35	32.52	22.28	2.92	2.5	0.203	NW	/
C2	20240222	Sunny	Moderate	Mid-Flood	Surface	1	14:55	8.55	8.16	33.76	22.12	3.58	2.5	0.185	NW	/
C2	20240222	Sunny	Moderate	Mid-Flood	Surface	1	14:55	8.53	8.16	33.80	22.07	3.59	2.5	0.166	NW	/
C2	20240222	Sunny	Moderate	Mid-Flood	Middle	10.5	14:54	8.51	8.13	33.84	22.12	3.40	3	0.193	N	/
C2	20240222	Sunny	Moderate	Mid-Flood	Middle	10.5	14:54	8.57	8.17	33.85	22.10	3.55	2.5	0.190	NW	/
C2	20240222	Sunny	Moderate	Mid-Flood	Bottom	20	14:53	8.58	8.14	33.76	22.06	3.44	3	0.213	NW	/
C2	20240222	Sunny	Moderate	Mid-Flood	Bottom	20	14:53	8.50	8.12	33.83	22.08	3.59	3	0.219	NW	/
M1	20240222	Sunny	Moderate	Mid-Flood	Surface	1	15:24	7.71	8.22	32.71	22.48	2.46	3	0.207	NW	/
M1	20240222	Sunny	Moderate	Mid-Flood	Surface	1	15:24	7.60	8.25	32.68	22.56	2.89	3	0.160	NW	/
M1	20240222	Sunny	Moderate	Mid-Flood	Middle	3.35	15:23	7.69	8.18	32.73	22.56	2.85	2.5	0.173	NW	/
M1	20240222	Sunny	Moderate	Mid-Flood	Middle	3.35	15:23	7.62	8.18	32.80	22.54	2.49	2.5	0.176	NW	/
M1	20240222	Sunny	Moderate	Mid-Flood	Bottom	5.7	15:22	7.62	8.25	32.80	22.44	2.48	3	0.188	NW	/
M1	20240222	Sunny	Moderate	Mid-Flood	Bottom	5.7	15:22	7.71	8.23	32.78	22.43	2.79	3	0.224	NW	/
M2	20240222	Sunny	Moderate	Mid-Flood	Surface	1	15:37	8.18	8.18	33.41	22.39	2.86	3	0.172	NW	/
M2	20240222	Sunny	Moderate	Mid-Flood	Surface	1	15:37	8.19	8.16	33.40	22.37	3.12	2.5	0.209	NW	/
M2	20240222	Sunny	Moderate	Mid-Flood	Middle	6.15	15:36	8.20	8.19	33.42	22.41	3.20	3	0.173	NW	/
M2	20240222	Sunny	Moderate	Mid-Flood	Middle	6.15	15:36	8.21	8.17	33.41	22.41	2.92	2.5	0.170	NW	/
M2	20240222	Sunny	Moderate	Mid-Flood	Bottom	11.3	15:35	8.19	8.24	33.45	22.43	3.10	2.5	0.211	NW	/
M2	20240222	Sunny	Moderate	Mid-Flood	Bottom	11.3	15:35	8.23	8.18	33.49	22.48	3.08	3	0.161	NW	/
M3	20240222	Sunny	Moderate	Mid-Flood	Surface	1	15:12	7.88	8.23	33.93	22.47	2.94	2.5	0.180	NW	/
M3	20240222	Sunny	Moderate	Mid-Flood	Surface	1	15:12	7.90	8.22	33.95	22.46	2.93	2.5	0.198	N	/
M3	20240222	Sunny	Moderate	Mid-Flood	Middle	3.25	15:11	7.89	8.21	33.98	22.48	2.71	2.5	0.203	NW	/
M3	20240222	Sunny	Moderate	Mid-Flood	Middle	3.25	15:11	7.86	8.24	33.88	22.39	3.17	2.5	0.196	NW	/
M3	20240222	Sunny	Moderate	Mid-Flood	Bottom	5.5	15:10	7.91	8.24	33.92	22.48	3.13	3	0.220	NW	/
M3	20240222	Sunny	Moderate	Mid-Flood	Bottom	5.5	15:10	7.86	8.22	33.94	22.39	2.99	3	0.181	N	/
M4	20240222	Sunny	Moderate	Mid-Flood	Surface	1	16:21	7.89	8.22	33.25	22.50	3.17	2.5	0.203	NW	/
M4	20240222	Sunny	Moderate	Mid-Flood	Surface	1	16:21	7.78	8.22	33.22	22.46	2.80	2.5	0.194	NW	/
M4	20240222	Sunny	Moderate	Mid-Flood	Bottom	3.9	16:20	7.87	8.20	33.31	22.42	2.87	4	0.189	NW	/
M4	20240222	Sunny	Moderate	Mid-Flood	Bottom	3.9	16:20	7.81	8.27	33.33	22.48	3.03	2.5	0.168	NW	/
C1	20240224	Cloudy	Moderate	Mid-Flood	Surface	1	9:01	8.93	8.13	33.58	23.16	3.23	2.5	0.161	NW	/
C1	20240224	Cloudy	Moderate	Mid-Flood	Surface	1	9:01	8.89	8.14	33.47	23.07	3.32	3	0.173	N	/
C1	20240224	Cloudy	Moderate	Mid-Flood	Middle	10.8	9:00	8.94	8.14	33.58	23.16	3.17	2.5	0.220	NW	/
C1	20240224	Cloudy	Moderate	Mid-Flood	Middle	10.8	9:00	8.83	8.05	33.54	23.06	3.14	2.5	0.176	NW	/
C1	20240224	Cloudy	Moderate	Mid-Flood	Bottom	20.6	8:59	8.79	8.13	33.61	23.10	3.36	2.5	0.184	NW	/
C1	20240224	Cloudy	Moderate	Mid-Flood	Bottom	20.6	8:59	8.89	8.10	33.47	23.12	3.27	2.5	0.166	N	/
C2	20240224	Cloudy	Moderate	Mid-Flood	Surface	1	8:02	8.54	8.20	33.28	23.05	3.74	2.5	0.158	NW	/
C2	20240224	Cloudy	Moderate	Mid-Flood	Surface	1	8:02	8.66	8.22	33.30	23.09	3.86	2.5	0.161	NW	/
C2	20240224	Cloudy	Moderate	Mid-Flood	Middle	11.15	8:01	8.64	8.19	33.28	23.06	3.84	2.5	0.199	NW	/
C2	20240224	Cloudy	Moderate	Mid-Flood	Middle	11.15	8:01	8.58	8.23	33.26	23.06	3.69	2.5	0.222	NW	/
C2	20240224	Cloudy	Moderate	Mid-Flood	Bottom	21.3	8:00	8.51	8.23	33.26	23.09	3.76	2.5	0.185	N	/
C2	20240224	Cloudy	Moderate	Mid-Flood	Bottom	21.3	8:00	8.60	8.22	33.23	23.15	3.86	2.5	0.209	NW	/
M1	20240224	Cloudy	Moderate	Mid-Flood	Surface	1	8:25	8.15	8.25	33.01	22.95	2.52	2.5	0.209	NW	/
M1	20240224	Cloudy	Moderate	Mid-Flood	Surface	1	8:25	8.19	8.30	33.02	23.03	2.19	2.5	0.162	NW	/
M1	20240224	Cloudy	Moderate	Mid-Flood	Middle	3.55	8:24	8.19	8.30	32.94	23.00	2.51	2.5	0.212	NW	/
M1	20240224	Cloudy	Moderate	Mid-Flood	Middle	3.55	8:24	8.16	8.28	32.98	23.06	2.63	2.5	0.213	N	/
M1	20240224	Cloudy	Moderate	Mid-Flood	Bottom	6.1	8:23	8.12	8.27	33.08	22.99	2.20	2.5	0.222	NW	/
M1	20240224	Cloudy	Moderate	Mid-Flood	Bottom	6.1	8:23	8.25	8.31	33.00	22.96	2.25	2.5	0.219	NW	/
M2	20240224	Cloudy	Moderate	Mid-Flood	Surface	1	8:38	8.20	8.19	33.46	23.15	2.84	2.5	0.192	NW	/
M2	20240224	Cloudy	Moderate	Mid-Flood	Surface	1	8:38	8.18	8.12	33.35	23.10	2.92	2.5	0.168	N	/
M2	20240224	Cloudy	Moderate	Mid-Flood	Middle	6.6	8:37	8.26	8.16	33.40	23.08	3.03	2.5	0.170	NW	/
M2	20240224	Cloudy	Moderate	Mid-Flood	Middle	6.6	8:37	8.25	8.17	33.43	23.09	3.04	2.5	0.174	NW	/
M2	20240224	Cloudy	Moderate	Mid-Flood	Bottom	12.2	8:36	8.26	8.08	33.37	23.09	2.76	3	0.187	N	/
M2	20240224	Cloudy	Moderate	Mid-Flood	Bottom	12.2	8:36	8.20	8.14	33.42	23.08	2.81	2.5	0.207	NW	/
M3	20240224	Cloudy	Moderate	Mid-Flood	Surface	1	8:13	9.08	8.13	33.42	22.84	3.24	3	0.186	NW	/
M3	20240224	Cloudy	Moderate	Mid-Flood	Surface	1	8:13	9.06	8.20	33.46	22.85	3.36	2.5	0.207	NW	/
M3	20240224	Cloudy	Moderate	Mid-Flood	Middle	3.9	8:12	9.08	8.18	33.39	22.84	3.48	2.5	0.171	NW	/
M3	20240224	Cloudy	Moderate	Mid-Flood	Middle	3.9	8:12	8.98	8.11	33.50	22.85	3.48	3	0.203	N	/
M3	20240224	Cloudy	Moderate	Mid-Flood	Bottom	6.8	8:11	9.10	8.18	33.49	22.90	3.20	2.5	0.188	NW	/
M3	20240224	Cloudy	Moderate	Mid-Flood	Bottom	6.8	8:11	9.06	8.16	33.37	22.85	3.34	2.5	0.181	NW	/
M4	20240224	Cloudy	Moderate	Mid-Flood	Surface	1	9:24	7.86	8.25	33.25	23.01	2.89	2.5	0.181	NW	/
M4	20240224	Cloudy	Moderate	Mid-Flood	Surface	1	9:24	7.91	8.20	33.31	23.00	2.54	3	0.225	NW	/
M4	20240224	Cloudy	Moderate	Mid-Flood	Bottom	3.7	9:23	7.89	8.25	33.21	23.02	2.70	3	0.212	N	/
M4	20240224	Cloudy	Moderate	Mid-Flood	Bottom	3.7	9:23	7.93	8.30	33.23	23.05	2.70	3	0.190	NW	/
C1	20240227	Cloudy	Moderate	Mid-Flood	Surface	1	9:17	8.19	8.19	33.22	22.85	2.93	4	0.209	NW	/
C1	20240227	Cloudy	Moderate	Mid-Flood	Surface	1	9:17	8.19	8.18	33.17	22.86	2.91	3	0.192	N	/
C1	20240227	Cloudy	Moderate	Mid-Flood	Middle	10.1	9:16	8.12	8.23	33.30	22.91	2.95	3	0.164	NW	/
C1	20240227	Cloudy	Moderate	Mid-Flood	Middle	10.1	9:16	8.20	8.21	33.09	22.87	2.84	5	0.198	NW	/
C1	20240227	Cloudy	Moderate	Mid-Flood	Bottom	19.2	9:15	8.06	8.23	33.30	22.86	3.23	2.5	0.174	N	/
C1	20240227	Cloudy	Moderate	Mid-Flood	Bottom	19.2	9:15	8.14	8.21	33.11	22.86	2.98	3	0.205	NW	/
C2	20240227	Cloudy	Moderate	Mid-Flood	Surface	1	8:07	8.51	8.18	32.76	22.79	3.61	3	0.164	N	/
C2	20240227	Cloudy	Moderate	Mid-Flood	Surface	1	8:07	8.77	8.20	32.62	22.82	3.68	4	0.219	NW	/
C2	20240227	Cloudy	Moderate	Mid-Flood	Middle	12.15	8:06	8.55	8.20	32.65	22.88	3.71	5	0.170	N	/
C2	20240227	Cloudy	Moderate	Mid-Flood	Middle	12.15	8:06	8.53	8.16	32.61	22.79	3.75	4	0.176	N	/
C2	20240227	Cloudy	Moderate	Mid-Flood	Bottom	23.3	8:05	8.70	8.15	32.66	22.79	3.68	6	0.210	NW	/
C2	20240227	Cloudy	Moderate	Mid-Flood	Bottom	23.3	8:05	8.52	8.20	32.62	22.86	3.69	4	0.184	NW	/
M1	20240227	Cloudy	Moderate	Mid-Flood	Surface	1	8:35	8.74	8.38	32.03	22.61	2.31	9	0.203	NW	/
M1	20240227	Cloudy	Moderate	Mid-Flood	Surface	1	8:35	8.69	8.29	32.05	22.65	2.58	6	0.223	N	/
M1	20240227	Cloudy	Moderate	Mid-Flood	Middle	3.65	8:34	8.89	8.32	32.03	22.58	2.36	4	0.220	NW	/
M1	20240227	Cloudy	Moderate	Mid-Flood	Middle	3.65	8:34	8.82	8.36	31.96	22.58	2.69	6	0.186	NW	/
M1	20240227	Cloudy	Moderate	Mid-Flood	Bottom	6.3	8:33	8.79	8.33	32.06	22.64	2.64	4	0.191	NW	/
M1	20240227	Cloudy	Moderate	Mid-Flood	Bottom	6.3	8:33	8.91	8.29	31.97	22.62	2.47	5	0.222	NW	/
M2	20240227	Cloudy	Moderate	Mid-Flood	Surface	1	8:48	9.23	8.24	32.01	22.49	3.33	6	0.200	N	/
M2	20240227	Cloudy	Moderate	Mid-Flood	Surface	1	8:48	9.05	8.28	32.00	22.56	3.03	8	0.214	NW	/
M2	20240227	Cloudy	Moderate	Mid-Flood	Middle	6.05	8:47	9.21	8.26	31.93	22.51	3.22	6	0.185	NW	/
M2	20240227	Cloudy	Moderate	Mid-Flood	Middle	6.05	8:47	9.32	8.27	32.05	22.56	3.55	4	0.168	NW	/
M2	20240227	Cloudy	Moderate	Mid-Flood	Bottom	11.1	8:46	9.13	8.22	32.05	22.50	3.33	5	0.190	NW	/
M2	20240227	Cloudy	Moderate	Mid-Flood	Bottom	11.1	8:46	9.19	8.25	32.01	22.50	3.07	5	0.199	NW	/
M3	20240227	Cloudy	Moderate	Mid-Flood	Surface	1	8:22	8.83	8.36	32.71	22.44	2.62	8	0.163	NW	/
M3	20240227	Cloudy	Moderate	Mid-Flood	Surface	1	8:22	8.96	8.37	32.77	22.46	3.10	7	0.163	NW	/
M3	20240227	Cloudy	Moderate	Mid-Flood	Middle	3.7	8:21	8.81	8.40	32.86	22.41	2.79	6	0.217	NW	/
M3	20240227	Cloudy	Moderate	Mid-Flood	Middle	3.7	8:21	8.97	8.38	32.62	22.39	2.65	8	0.214	NW	/
M3	20240227	Cloudy	Moderate	Mid-Flood	Bottom	6.4	8:20	8.90	8.33	32.81	22.41	2.62	5	0.158	NW	/
M3	20240227	Cloudy	Moderate	Mid-Flood	Bottom	6.4	8:20	8.90	8.32	32.64	22.40	2.86	5	0.164	NW	/
M4	20240227	Cloudy	Moderate	Mid-Flood	Surface	1	9:45	8.12	8.32	31.52	22.49	2.06	6	0.194	NW	/
M4	20240227	Cloudy	Moderate	Mid-Flood	Surface	1	9:45	8.27	8.38	31.50	22.47	2.23	8	0.205	NW	/
M4	20240227	Cloudy	Moderate	Mid-Flood	Bottom	4.4	9:44	8.06	8.32	31.59	22.49	2.14	5	0.183	NW	/
M4	20240227	Cloudy	Moderate	Mid-Flood	Bottom	4.4	9:44	8.32	8.39	31.32	22.52	2.14	7	0.190	NW	/

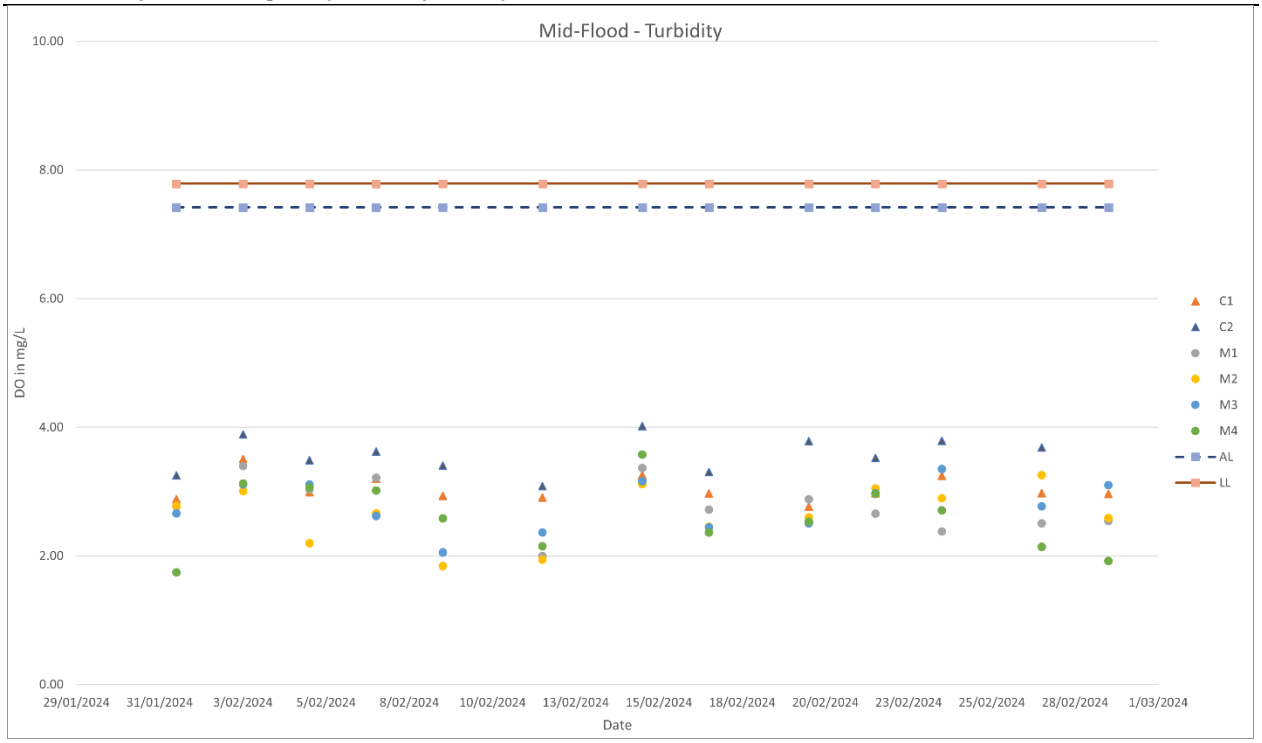
C1	20240229	Cloudy	Moderate	Mid-Flood	Surface	1	9:17	8.43	8.32	33.10	23.30	3.07	3	0.171	NW	/
C1	20240229	Cloudy	Moderate	Mid-Flood	Surface	1	9:17	8.38	8.29	33.10	23.32	3.26	3	0.201	NW	/
C1	20240229	Cloudy	Moderate	Mid-Flood	Middle	10.75	9:16	8.33	8.33	33.16	23.28	2.68	4	0.184	NW	/
C1	20240229	Cloudy	Moderate	Mid-Flood	Middle	10.75	9:16	8.38	8.30	33.19	23.29	2.97	2.5	0.161	NW	/
C1	20240229	Cloudy	Moderate	Mid-Flood	Bottom	20.5	9:15	8.44	8.28	33.11	23.32	2.91	3	0.169	N	/
C1	20240229	Cloudy	Moderate	Mid-Flood	Bottom	20.5	9:15	8.42	8.37	33.14	23.33	2.89	4	0.204	NW	/
C2	20240229	Cloudy	Moderate	Mid-Flood	Surface	1	8:02	8.48	8.37	34.25	23.27	3.34	5	0.185	NW	/
C2	20240229	Cloudy	Moderate	Mid-Flood	Surface	1	8:02	8.46	8.33	34.22	23.28	3.46	3	0.203	NW	/
C2	20240229	Cloudy	Moderate	Mid-Flood	Middle	11.85	8:01	8.40	8.34	34.19	23.27	3.66	4	0.178	NW	/
C2	20240229	Cloudy	Moderate	Mid-Flood	Middle	11.85	8:01	8.52	8.30	34.23	23.28	3.75	3	0.160	NW	/
C2	20240229	Cloudy	Moderate	Mid-Flood	Bottom	22.7	8:00	8.46	8.30	34.24	23.30	3.50	5	0.161	NW	/
C2	20240229	Cloudy	Moderate	Mid-Flood	Bottom	22.7	8:00	8.39	8.36	34.24	23.31	3.45	3	0.184	NW	/
M1	20240229	Cloudy	Moderate	Mid-Flood	Surface	1	8:31	7.48	8.14	32.65	23.25	2.46	3	0.222	NW	/
M1	20240229	Cloudy	Moderate	Mid-Flood	Surface	1	8:31	7.50	8.12	32.62	23.21	2.62	3	0.211	N	/
M1	20240229	Cloudy	Moderate	Mid-Flood	Middle	3.5	8:30	7.45	8.14	32.59	23.22	2.56	3	0.179	NW	/
M1	20240229	Cloudy	Moderate	Mid-Flood	Middle	3.5	8:30	7.56	8.16	32.69	23.22	2.51	3	0.190	N	/
M1	20240229	Cloudy	Moderate	Mid-Flood	Bottom	6	8:29	7.53	8.16	32.63	23.25	2.75	3	0.190	NW	/
M1	20240229	Cloudy	Moderate	Mid-Flood	Bottom	6	8:29	7.48	8.09	32.67	23.27	2.36	4	0.201	NW	/
M2	20240229	Cloudy	Moderate	Mid-Flood	Surface	1	8:18	7.76	8.19	33.68	23.29	2.42	3	0.174	NW	/
M2	20240229	Cloudy	Moderate	Mid-Flood	Surface	1	8:18	7.67	8.14	33.63	23.32	2.63	3	0.180	NW	/
M2	20240229	Cloudy	Moderate	Mid-Flood	Middle	6.15	8:17	7.80	8.15	33.63	23.28	2.44	3	0.169	NW	/
M2	20240229	Cloudy	Moderate	Mid-Flood	Middle	6.15	8:17	7.75	8.16	33.71	23.32	2.73	3	0.170	N	/
M2	20240229	Cloudy	Moderate	Mid-Flood	Bottom	11.3	8:16	7.68	8.16	33.67	23.27	2.64	4	0.213	N	/
M2	20240229	Cloudy	Moderate	Mid-Flood	Bottom	11.3	8:16	7.71	8.19	33.67	23.30	2.68	3	0.205	NW	/
M3	20240229	Cloudy	Moderate	Mid-Flood	Surface	1	8:47	7.82	8.29	33.45	23.46	2.91	4	0.170	NW	/
M3	20240229	Cloudy	Moderate	Mid-Flood	Surface	1	8:47	7.80	8.34	33.52	23.43	3.21	5	0.163	NW	/
M3	20240229	Cloudy	Moderate	Mid-Flood	Middle	3.85	8:46	7.76	8.28	33.44	23.42	3.26	2.5	0.183	N	/
M3	20240229	Cloudy	Moderate	Mid-Flood	Middle	3.85	8:46	7.76	8.27	33.48	23.45	3.23	3	0.217	NW	/
M3	20240229	Cloudy	Moderate	Mid-Flood	Bottom	6.7	8:45	7.88	8.32	33.51	23.47	2.76	4	0.222	NW	/
M3	20240229	Cloudy	Moderate	Mid-Flood	Bottom	6.7	8:45	7.79	8.32	33.51	23.44	3.25	4	0.164	N	/
M4	20240229	Cloudy	Moderate	Mid-Flood	Surface	1	9:50	8.18	8.15	33.79	23.11	2.07	5	0.200	NW	/
M4	20240229	Cloudy	Moderate	Mid-Flood	Surface	1	9:50	8.29	8.17	33.81	23.10	2.12	4	0.194	NW	/
M4	20240229	Cloudy	Moderate	Mid-Flood	Bottom	3.7	9:49	8.21	8.20	33.85	23.11	1.79	7	0.197	NW	/
M4	20240229	Cloudy	Moderate	Mid-Flood	Bottom	3.7	9:49	8.33	8.21	33.80	23.11	1.70	4	0.163	NW	/

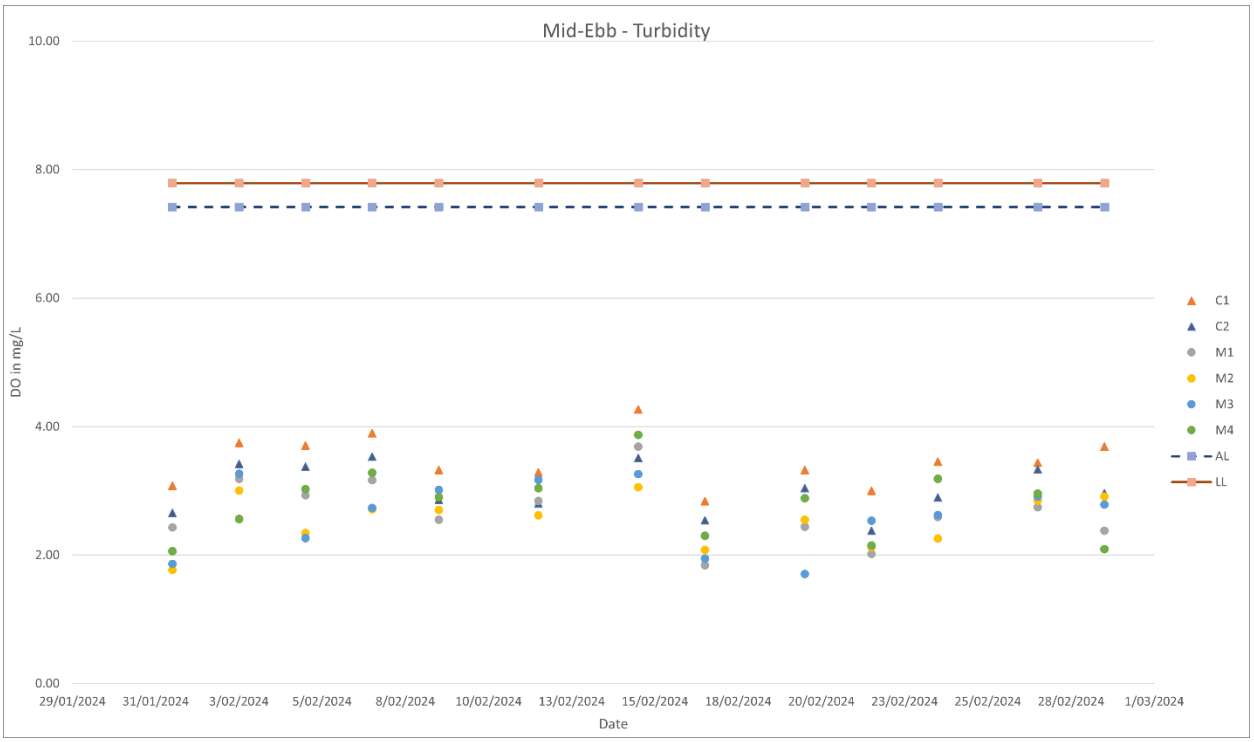


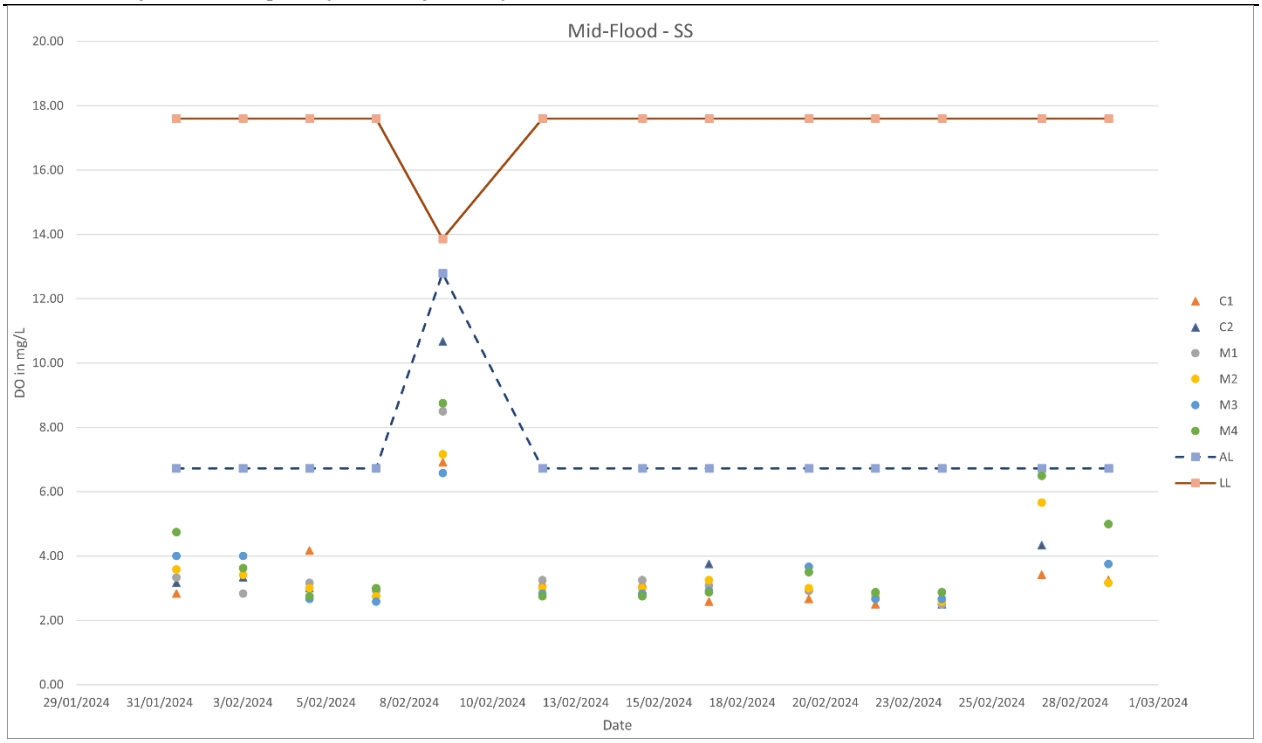


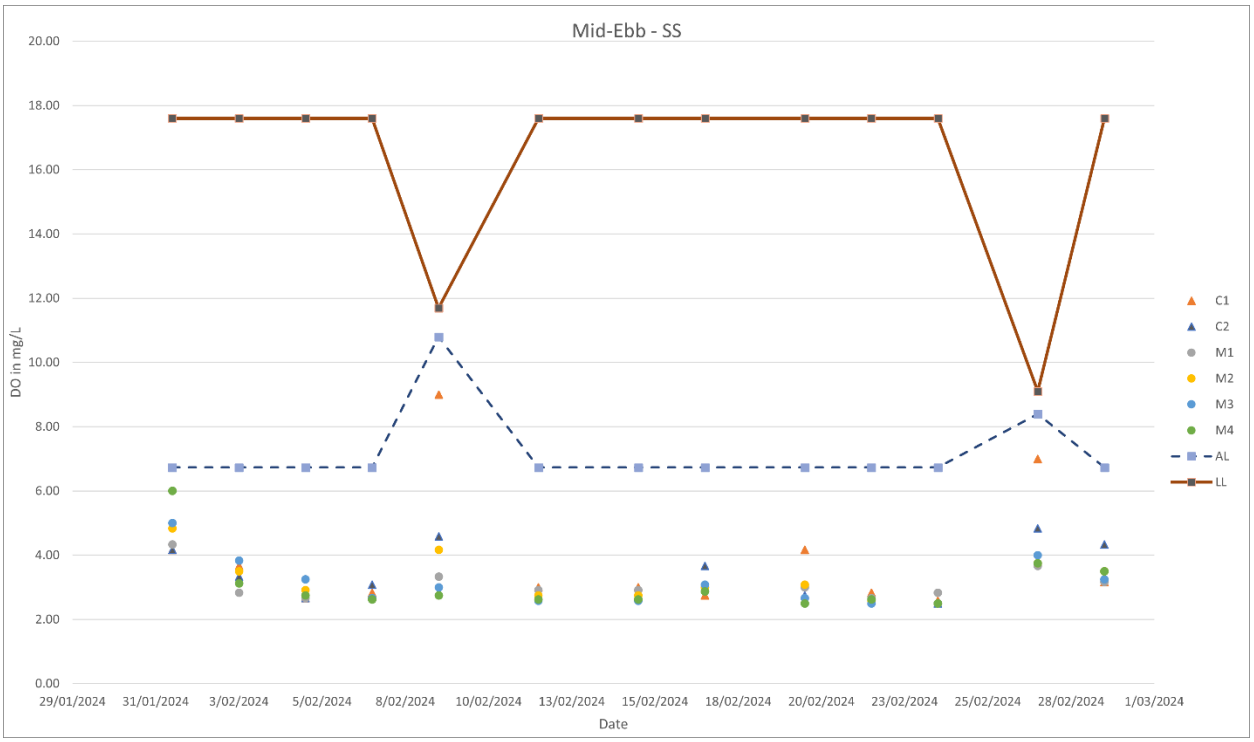












Appendix J
Complaint Log

Statistical Summary of Environmental Complaints

Reporting Period	Environmental Complaint Statistics		
	Frequency	Cumulative	Complaint Nature
February 2024	0	0	N/A

Statistical Summary of Environmental Summons

Reporting Period	Environmental Summons Statistics		
	Frequency	Cumulative	Details
February 2024	0	0	N/A

Statistical Summary of Environmental Prosecution

Reporting Period	Environmental Prosecution Statistics		
	Frequency	Cumulative	Details
February 2024	0	0	N/A