環境保護署

Contract No. EP/SP/66/12 Integrated Waste Management Facilities, Phase 1 Monthly EM&A Report No.54



吉寶西格斯-振華聯營公司 KEPPEL SEGHERS - ZHEN HUA JOINT VENTURE

Monthly EM&A Report No.54 (Period from 1 December to 31 December 2022)

(Clause 3.3, Further Environmental Permit FEP-01/429/2012/A)

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Date:	12 January 2023	12 January 2023	12 January 2023

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Revision History

Rev.	DESCRIPTION OF MODIFICATION	DATE
A	First Submission	13 January 2023

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EXECUTIVE SUMMARY

Introduction

- A1. The Project, Integrated Waste Management Facility (IWMF), is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO) and is currently governed by a Further Environmental Permit (FEP No. FEP-01/429/2012/A) for the construction and operation of the Project.
- A2. In accordance with the Updated Environmental Monitoring and Audit (EM&A) Manual for the Project, EM&A works for marine water quality, noise, waste management and ecology should be carried out by Environmental Team (ET), Acuity Sustainability Consulting Limited (ASCL), during the construction phase of the Project.
- A3. This is the 54th Monthly EM&A Report, prepared by ASCL, for the Project summarizing the monitoring results and audit findings of the EM&A programme at and around Shek Kwu Chau (SKC) during the reporting period from 1 December to 31 December 2022.

Summary of Main Works Undertaken & Key Mitigation Measures Implemented

- A4. Key activities carried out in this reporting period for the Project included the following:
 - Reclamation Area:
 - Reclamation works
 - Installation of Instrumentation
 - Site Investigation works for foundation
 - Foundation works (including Driven H Pile and Socketed H Pile)
 - Pile cap construction
 - Structural steel work
 - Seawall Portion:
 - Installation of Chinese Pod
 - Caisson extension works, from +3mPD to +6mPD, at Seawall A and B
 - Construction of wave wall along the vertical seawall
- A5. The major environmental impacts brought by the above construction activities include:
 - Deterioration of water quality of nearby water body by reclamation
- A6. The key environmental mitigation measures implemented for the Project in this reporting period associated with the construction activities include:
 - Reduction of noise from equipment and machinery on-site;
 - Sorting, recycling, storage and disposal of general refuse and construction waste;
 - Management of chemicals and avoidance of oil spillage on-site;

- Confirmation of the absence of silt content in the rock filling material and the filling work is properly conducted;
- Dust suppression measures for exposed earth surface and stockpile of dusty material; and
- Site runoff control measure during rainstorm.

Summary of Exceedance & Investigation & Follow-up

- A7. The EM&A works for water quality, construction waste, marine mammal and White-Bellied Sea Eagle (WBSE) were conducted during the reporting period in accordance with the Updated EM&A Manual.
- A8. No exceedance of the Action or Limit Levels in relation to noise, construction waste and WBSE was recorded in the reporting month.
- A9. The derived Action/Limit Levels for dry seasons as listed on Table 2.8 was applied in the reporting month.
- A10. During the reporting period, fourteen (14) of general water quality monitoring results of SS obtained during the reporting period had exceeded the Action Level and thirteen (13) of general water quality monitoring results of SS obtained during the reporting period had exceeded the Limit Level. Investigations were carried out for each exceedance during the reporting period.
- A11. Weekly site inspections of the construction work by ET were carried out on 06, 13, 20 and 28 December 2022 to audit the mitigation measures implementation status. Monthly joint site inspection was carried out on 13 December 2022 by ET and IEC. Observations were recorded in the site inspection checklists and provided to the contractors together with the appropriate follow-up actions where necessary.

Complaint Handling and Prosecution

- A12. No project-related environmental complaint was received during the reporting period.
- A13. Neither notifications of summons nor prosecution was received for the Project.

Reporting Change

A14. 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

- A15. Key activities anticipated in the next reporting period for the Project will include the following:
 - Reclamation Area:
 - Reclamation works
 - Installation of Instrumentation
 - Site Investigation works for foundation

- Foundation works (including Driven H Pile and Socketed H Pile)
- Pile cap construction
- Structural steel work
- Seawall Portion:
 - Installation of Chinese Pod
 - Caisson extension works, from +3mPD to +6mPD, at Seawall A and B
 - Construction of wave wall along the vertical seawall
- A16. The major environmental impacts brought by the above construction activities will include:
 - Deterioration of water quality of nearby water body by reclamation.
- A17. The key environmental mitigation measures for the Project in the coming reporting period associated with the construction activities will include:
 - Reduction of noise from equipment and machinery on-site;
 - Sorting, recycling, storage and disposal of general refuse and construction waste;
 - Management of chemicals and avoidance of oil spillage on-site, especially under heavy rains and adverse weather;
 - Dust control of exposed soil surface and stockpile of dusty material at reclaimed area;
 - Dust suppression measures for exposed earth surface and stockpile of dusty material;
 - Site runoff control measure during construction works; and
 - Dust and noise control of foundation works.

1. BASIC PROJECT INFORMATION

1.1 Background

- 1.1.1 The Government of Hong Kong SAR will develop the Integrated Waste Management Facilities (IWMF) Phase 1 (hereafter "the Project") with incineration to achieve substantial bulk reduction of unavoidable municipal solid waste (MSW) and to recover energy from the incineration process. The IWMF will be on an artificial island to be formed by reclamation at the south-western coast of Shek Kwu Chau. Keppel Seghers Zhen Hua Joint Venture (KSZHJV) was awarded the contract under Contract No. EP/SP/66/12 Integrated Waste Management Facilities Phase 1 to construct and operate the Project.
- 1.1.2 An environmental impact assessment (EIA) study for the Project has been conducted and the EIA Report was approved under the Environmental Impact Assessment Ordinance on 17 January 2012. An Environmental Permit (EP) (EP No.: EP-429/2012) was granted to EPD on 19 January 2012 for the construction and operation of the Project. Subsequently, the EP was amended (EP No.: EP-429/2012/A) and a further EP (FEP) (EP No.: FEP-01/429/2012/A) was granted to the Keppel Seghers – Zhen Hua Joint Venture (KSZHJV) on 27 December 2017.
- 1.1.3 A further EP (FEP) (EP No.: FEP-02/429/2012/A) on Submarine Cable for the Development of the Project was granted to CLP Power Hong Kong Limited (CLP) on 17 Jan 2020.
- 1.1.4 The key design and construction elements of the Project include the Design and the Works including but not limited to the design, engineering procurement, construction, testing and commissioning of the Facility including:
 - Ground Treatment works;
 - Seawall and Breakwater construction;
 - Non-dredged Reclamation;
 - Other Marine works and Harbour and Port Facilities;
 - Site formation;
 - Municipal Solid Waste (MSW) Treatment Processes;
 - Energy Recovery for Power Generation and Surplus Electricity export;
 - Wastewater treatment process;
 - Desalination and water treatment process;
 - Civil works;
 - Building and Structural works;
 - Electrical and Mechanical works;
 - Building Services;
 - Architectural and Landscaping works; and
 - All other design and works required for the operation and maintenance of the Facility according to the Contract requirements.

1.1.5 The location of the IWMF near Shek Kwu Chau (SKC) and general layout of IWMF are shown in **Figure 1.1** and **Figure 1.2** respectively.

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Keppel Seghers – Zhen Hua Joint Venture

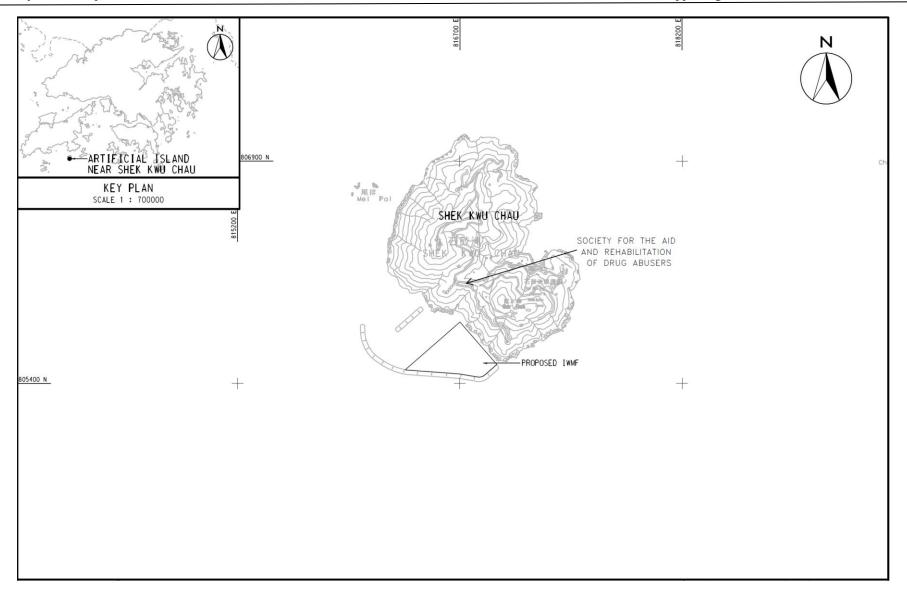


Figure 1.1 Location of the IWMF at the Artificial Island near SKC

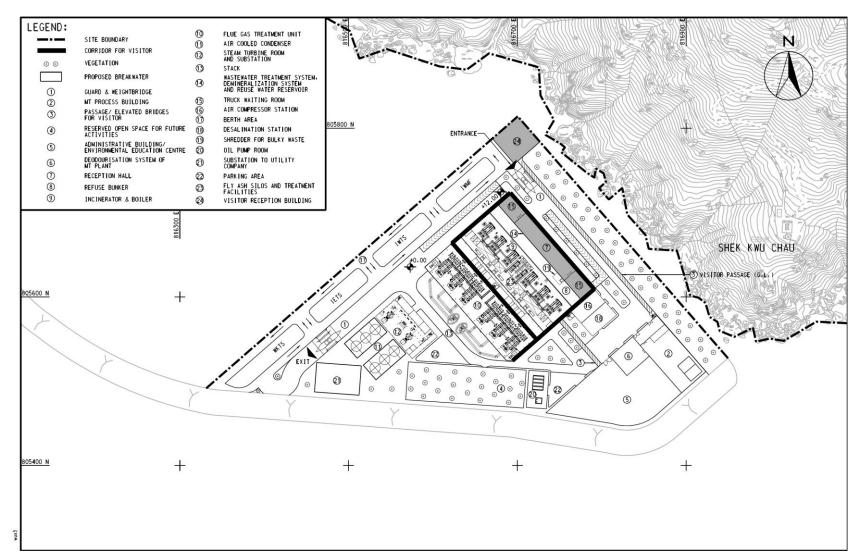


Figure 1.2 General Layout of the IWMF at the Artificial Island near SKC

1.2 The Reporting Scope

- 1.2.1 This is the 54th Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 December 2022 to 31 December 2022.
- 1.3 Project Organization
- 1.3.1 The Project Organization structure for Construction Phase is presented in **Figure 1.3**.

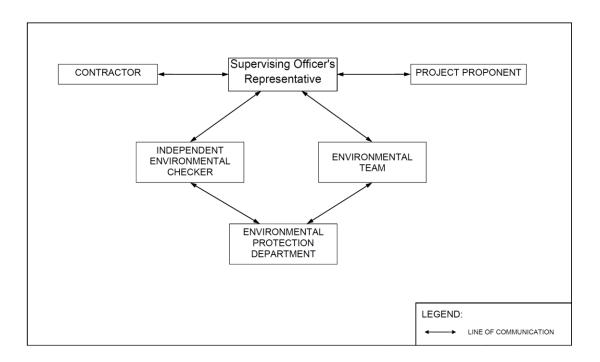


Figure 1.3 Project Organization Chart

1.3.2 Contact details of the key personnel are presented in **Table 1.1** below:

Table 1.1 Contact Details of Key Personnel

Party	Position	Name	Telephone no.
Keppel Seghers – Zhen Hua Joint Venture	Project Manager	Kenny Yu	2192-0606
Acuity Sustainability Consulting Limited	Environmental Team Leader	F.C. Tsang	2698-6833
ERM-Hong Kong, Limited	Independent Environmental Checker	Mandy To	2271-3000

1.4 Summary of Construction Works

1.4.1 Details of the major construction activities undertaken in this reporting period are shown in **Table 1.2** and **Figure 1.4** below. The construction programme is presented in **Appendix A**.

 Table 1.2 Summary of the Construction Activities Undertaken during the Reporting Month

Location of works	Construction activities undertaken	Remarks on progress
Reclamation area	Reclamation works	On-going
	• Installation of Instrumentation	• On-going
	• Site Investigation works for foundation	• On-going
	• Foundation works (including Driven H Pile and Socketed H Pile)	• On-going
	Pile cap construction	On-going
	• Structural steel work	• On-going
Seawall portion	Installation of Chinese Pod	On-going
	• Caisson extension works, from +3mPD to +6mPD, at Seawall A and B	• On-going
	• Construction of wave wall along the vertical seawall	• On-going

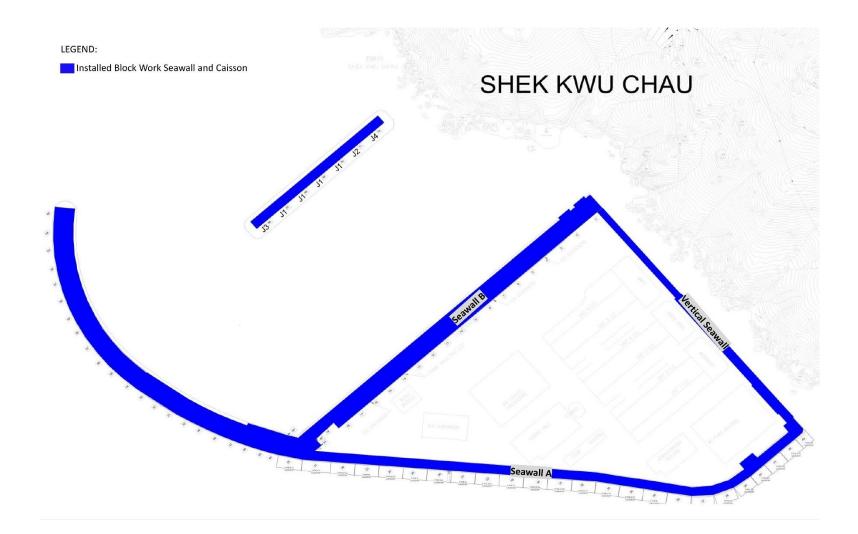


Figure 1.4 Location of Major Construction Activities Undertaken during the Reporting Month

1.5 Summary of Environmental Status

1.5.1 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, Permit and Documentations

Permit/ Licences/ Notification	Reference	Validity Period	Remarks
Variation of Environmental Permit	EP-429/2012/A	Throughout the Contract	
Further Environmental Permit	FEP-01/429/2012/A	Throughout the Contract	
Notification of Construction Works under the Air Pollution Control (Construction Dust) Regulation (Form NA)	Ref No.: 428778	15/12/2017 – 22/09/2024	
Wastewater Discharge Licence	WT00039438-2021	15/02/2022 – 28/02/2027	
Chemical Waste Producer Registration	WPN0017-933-K3301- 01	Throughout the Contract	
	WPN5213-961-K3301- 02 WPN5296-839-K3301- 03	Throughout the Contract Throughout the Contract	
Construction Noise Permit (24 hours)	GW-RS0727-22	31/08/2022– 28/02/2023	Portion 1, 1A & 1B (Superseded by GW- RS1077-22 on 15/12/2022)
Construction Noise Permit (24 hours)	GW-RS1077-22	15/12/2022– 14/06/2023	Portion 1, 1A & 1B
Construction Noise Permit (Percussive piling)	PP-RS0019-22	07/11/2022– 05/05/2023	Portion 1
Billing Account for Disposal of Construction Waste	A/C No.:7029768	Throughout the Contract	

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

Parameters	Status
Water Quality	
Baseline Monitoring under Updated EM&A Manual and Detailed Plan on DCM	The baseline water quality monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under FEP Condition 3.4
Impact Monitoring	On-going
Post DCM Monitoring	All DCM was completed on 14 October 2020, regular DCM monitoring for further 4 weeks (i.e form 16 October 2020 to 14 November 2020) was completed according to the approved Detailed Plan on Deep Cement Mixing
Initial Intensive DCM Monitoring	Conducted from 11 February 2019 to 10 March 2019, had not been resumed since there was no DCM related parameter exceeding the AL/LL.
Baseline Water Quality of wet season	Completed over 13 August 2018 to 7 September 2018
Noise	
Baseline Monitoring	The baseline noise monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under FEP Condition 3.4
Impact Monitoring	On-going
Waste Management	
Mitigation Measures in Waste Monitoring Plan	On-going
Coral	
Pre-translocation Survey and Coral Mapping	The Coral Translocation Plan was submitted and approved by EPD under EP Condition 2.12
Coral Translocation	Completed on 28 March 2018
Post-Translocation Coral Monitoring	Survey affected by missing of translocated and tagged coral colonies after typhoons in September 2018, completed on 28 March 2019.
Pre-construction Coral Survey and Tagging	Completed on 26 June 2018
Tagged Coral Monitoring	Survey obstructed due to missing of tagged coral colonies after typhoons in September 2018
Coral Survey and Re- tagging	Re-tagging at Indirect Impact Site was conducted on 23 November and Re-tagging at Control Site was conducted on 3 December 2018.
Post Re-tagging Coral Monitoring	On-going (1997)
Marine Mammal	
Vessel-based Line-transect	The baseline marine mammal monitoring result has been
Survey Baseline Monitoring	reported in Baseline Monitoring Report and submitted to EPD under FEP Condition 3.4
Vessel-based Line-transect Survey Impact Monitoring	On-going
Land-based Theodolite Tracking	30 days of theodolite surveys were started on 21 Feb 2019 and completed in May 2019.
Passive Acoustic Monitoring	30 days of PAM surveys were started on 1 May 2019 and completed by the end of May 2019.

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

Parameters	Status
White-bellied Sea Eagle	
Baseline Monitoring	The baseline WBSE monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under FEP Condition 3.4
Impact Monitoring	On-going, Incubation activity was recorded during the monitoring on 29 December 2022, the frequency of impact monitoring will changed to weekly monitoring starting from January 2023.
Environmental Audit	
Site Inspection covering Measures of Air Quality, Noise Impact, Water Quality, Waste, Ecological Quality, Fisheries, Landscape and Visual	On-going
Mitigation Measures in Marine Mammal Watching Plan (MMWP)	Installation of caisson No.19 was completed on 18 March 2021, which the reclamation area had been totally enclosed by permanent structure. Floating type silt curtain at marine access was removed on 18 March 2021. No enclosed area shall be formed by deployment of silt curtain for the remaining works programme.
Mitigation Measures in Detailed Monitoring Programme on Finless Porpoise (DMPFP)	Installation of caisson No.19 was completed on 18 March 2021, which the reclamation area had been totally enclosed by permanent structure. Floating type silt curtain at marine access was removed on 18 March 2021. No enclosed area shall be formed by deployment of silt curtain for the remaining works programme.
Mitigation Measures in Vessel Travel Details	On-going
Daily Site Audit and Monitoring for Dredging Work	Completed

- 1.5.3 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.
- 1.5.4 The EM&A programme has been implemented in accordance with the recommendations presented in the approved EIA Report and the Updated 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**.

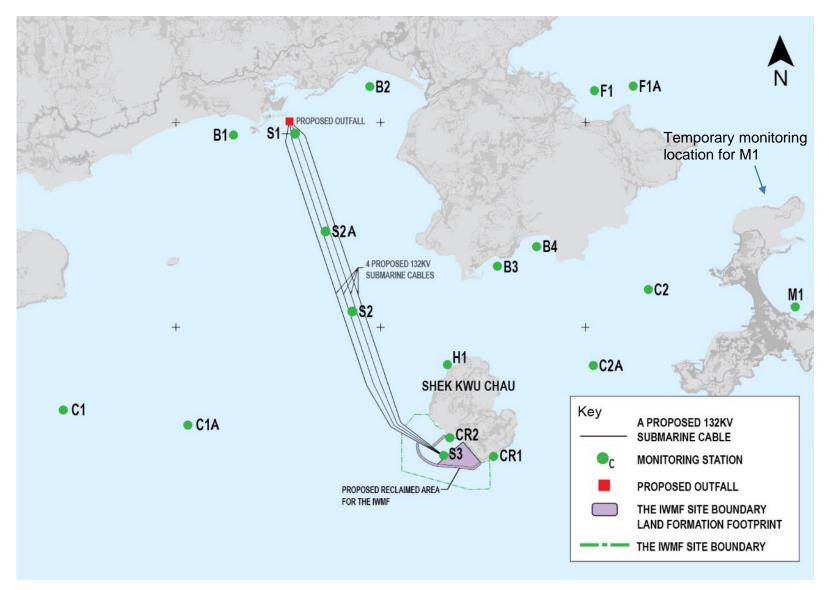
2. MARINE WATER QUALITY MONITORING

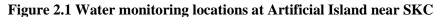
- 2.1 Water Quality Requirements
- 2.1.1 To ensure no adverse water quality impact, water quality monitoring is recommended to be carried out at the nearby water sensitive receivers (WSRs) during construction phase including proposed reclamation, breakwater construction, etc.
- 2.1.2 In accordance with the Updated EM&A Manual, impact water quality monitoring were conducted 3 days per week at mid-flood and mid-ebb tide to obtain impact water quality levels at the eleven monitoring stations during general water quality monitoring for the reporting period.
- 2.2 Water Quality Parameters, Time, Frequency
- 2.2.1 Dissolved Oxygen (DO), Turbidity, Suspended Solids (SS), Salinity and pH have been undertaken at the eleven monitoring stations during general water quality monitoring.
- 2.2.2 DO, temperature, salinity, turbidity and pH have been measured in-situ and the SS, has been assayed in a HOKLAS laboratory.
- 2.2.3 In associate with the water quality parameters, other relevant data were also measured, such as monitoring location/position, time, water depth, sampling depth, tidal stages, weather conditions and any special phenomena or work underway nearby were also recorded. The monitoring schedule is provided in **Appendix C**.
- 2.2.4 Impact water quality monitoring was conducted 3 days per week in the reporting period. All parameters were monitored during mid-flood and mid-ebb tides at three water depths for general water quality monitoring. The interval between two sets of monitoring has not been less than 36 hours.
- 2.2.5 **Table 2.1** summarizes the monitoring parameters, frequency and duration of the impact water quality monitoring during construction phase.

Parameter, unit	Frequency	No. of Depths
 Water Depth (m) Temperature (°C) Salinity (ppt) pH (pH unit) Dissolved Oxygen (DO) (mg/L and % of saturation) Turbidity (NTU) Suspended Solids (SS), mg/L 	General water quality monitoring : 3 days per week, at mid-flood and mid-ebb tides	3 water depths: 1m below sea surface, mid-depth and 1m above sea bed.If the water depth is less than 3m, mid-depth sampling only.If water depth less than 6m, mid-depth may be omitted.

Table 2.1 Water Quality Monitoring Parameters, Frequency and Duration

- 2.3 Water Quality Monitoring Locations
- 2.3.1 Impact water quality monitoring was conducted at eleven monitoring locations (B1-B4, H1, C1, C2, F1, CR1, CR2 & M1) during general water quality monitoring in the reporting period as shown in **Figure 2.1**. As per the relocation proposal verified by IEC and approved by EPD, the monitoring location C1, C2, S2, F1 are relocated at C1A, C2A, S2A, F1A as equivalent points respectively to clear up the concerns from stakeholders.





2.3.2 B1 to B4 are located at 4 beaches respectively at the southern shore of Lantau Island. Monitoring station H1 is located at the horseshoe crab habitat at northern SKC, while CR1 and CR2 are located at the coral communities at southwestern shore of SKC. Monitoring station F1 is located at the Cheung Sha Wan Fish Culture Zone while monitoring station M1 is located at Tung Wan at Cheung Chau. Monitoring station F1A is relocated for F1 at the Cheung Sha Wan Fish Culture Zone. S1, S2 and S3 are located at the northern landing site, midway and southern landing site of the proposed submarine cable, respectively. S2A is the relocated monitoring station of S2 which represents the midway landing site of the proposed submarine cable. S1, S2/S2A and S3 are required for monitoring due to the laying of submarine cable. Control stations C1 and C2 at far field locations are for comparison. Control stations C1A and C2A are relocated for C1 and C2 respectively as equivalent far field locations for comparison.

2.3.3 Fourteen monitoring stations are listed in **Table 2.2**.

Monitoring station	Description	Easting	Northing
B1	Beach – Cheung Sha Lower	813342	810316
B2	Beach – Pui O	815340	811025
B3	Beach – Yi Long Wan	817210	808395
B4	Beach – Tai Long Wan	817784	808682
H1	Horseshoe Crab – Shek Kwu Chau	816477	806953
C1	Control Station (note i)	810850	806288
C1A	Relocated Control Station	812823	806300
C2	Control Station (note ii)	819421	808053
C2A	Relocated Control Station	818869	806808
F1	Cheung Sha Wan Fish Culture Zone (note iii)	818631	810966
F1A	Cheung Sha Wan Fish Culture Zone	819109	810924
S1	Submarine Cable Landing Site	814245	810335
S2	Submarine Cable (note iv)	815076	807747
S2A	Submarine Cable	814808	808515
\$3	Submarine Cable Landing Site	816420	805621
CR1	Coral	817144	805597
CR2	Coral	816512	805882
M1	Tung Wan	821572	807799

 Table 2.2 – Locations of Marine Water Quality Stations

Note:

i. Relocated to C1A in Mar 2019

ii. Relocated to C2A in Mar 2019

iii. Relocated to S2A in Mar 2019

iv. Relocated to F1A in Mar 2019

- 2.4 Impact Monitoring Methodology
- 2.4.1 General water quality monitoring was conducted three days per week, at mid-flood and mid-ebb tides, at the designated water quality monitoring stations during the reporting period.
- 2.4.2 The interval between 2 sets of monitoring was not less than 36 hours. Sampling was collected at three water depths, namely, 1m below water surface, mid-depth and 1m above seabed, except where the water depth is less than 6m, the mid-depth was omitted. If the water depth was less than 3m, only the mid-depth station was monitored.
- 2.4.3 All observations and results were presented in **Appendix D**. Duplicate in-situ measurements and water sampling were carried out in each sampling event. The monitoring probes were retrieved out of water after the first measurement and then redeployed for the second measurement. When the difference in value between the first and second readings of DO or turbidity is more than 25% of the value of the first reading, the reading would be discarded and further readings would be taken.

In-situ Measurement

2.4.4 Levels of DO, pH, temperature, turbidity and salinity would be measured in-situ by portable and weatherproof measuring instrument, e.g. YSI ProDSS and Horiba U-53 Multiparameter complete with cable and sensor. (Refer to http://www.ysi.com/ProDSS for YSI ProDSS technical specification and https://static.horiba.com/fileadmin/Horiba/Products/Process and Environmental/Wat er_Pollution/Instruction_Manuals/U-50/U-50_SS_E.pdf for Horiba U-53 technical specification). Water current velocity and water current direction would be measured by portable and weatherproof current meter, e.g. SonTek Hydrosurveyor (Refer to https://www.sontek.com/hydrosurveyor for SonTek Hydrosurveyor M9 technical specification). Parameters measured by in-situ measurement is tabulated in Table 2.3

Parameter	Resolution	Range
Temperature	0.1 °C	-5-70 °C
Dissolved Oxygen (DO)	0.01 mg/L	0-50.0 mg/L
Turbidity	0.1 NTU	0-1000 NTU
pH	pH 0.01	pH 0-14
Salinity	0.01 ppt	0-40 ppt
Water Current Velocity	0.001m/s	±20m/s
Water Current Direction	$\pm 1^{\circ}$	$\pm 2^{ m o}$

Table 2.3 – Parameters Measured by In-situ Measuremen	Table 2.3 -	- Parameters	Measured	bv	In-situ Measurement
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Laboratory Analysis

2.4.5 Analysis of SS shall be carried out in a HOKLAS accredited laboratory, as shown in **Appendix E**. Sufficient water samples shall be collected at the monitoring stations for carrying out the laboratory determinations. The determination work shall be started within 24 hours after collection of the water samples. Analytical methods and detection limits for SS is presented in **Table 2.4**.

Table 2.4 – Analytical Methods Applied to Water Quality Samples

Parameter	Analytical method	Detection Level	
Suspended Solids, SS	APHA 2540 D ⁱ	1 mg/L	

Footnote:

"APHA 2540 D" stands for American Public Health Association Standard Methods for the Examination of Water and Wastewater, 23rd Edition.

Field Log

- 2.4.6 Other relevant data was recorded, such as: monitoring location / position, time, water depth, weather conditions and any special phenomena underway near the monitoring station.
- 2.5 Monitoring Equipment
- 2.5.1 Equipment used in the impact water quality monitoring programme is summarized in **Table 2.5** below. Calibration certificates for the water quality monitoring equipment are attached in **Appendix F**.

Table 2.5 Impact Water Quality Monitoring Equipment

Monitored Parameter	Equipment	Brand and Model
DO, Temperature, Salinity,	Multi-functional Meter	Horiba U-53
pH and Turbidity		YSI ProDSS Multi Parameter
Coordinates	Positioning Equipment	Garmin GPSMAP 78s
Water depth	Water Depth Detector	Hummingbird 160 Portable
SS	Water SamplerWildco 2 L W	
		with messenger

2.5.2 Dissolved Oxygen and Temperature Measuring Equipment

The instrument is a portable and weatherproof DO probe mounted on the multifunctional meter complete with cable and sensor and is powered by a DC supply source. The equipment was capable of measuring:

- A DO level in the range of 0 50 mg/L; and
- Temperature of -5 70 degree Celsius.

2.5.3 Turbidity Measurement Instrument

The instrument is a portable and weatherproof turbidity-measuring probe mounted on the multi-functional meter and is powered by a DC supply source. The instrument is equipped with a photoelectric sensor which is capable of measuring turbidity between 0 - 1000 NTU.

2.5.4 pH Measurement Instrument

The probe consists of a potentiometer, a glass electrode, a reference electrode and a temperature-compensating device mounted on the multi-functional meter. It is readable to 0.1 pH in a range of 0 to 14. Standard buffer solutions of at least pH 7 and pH 10 were used for calibration of the instrument before and after use.

2.5.5 Salinity Measurement Instrument

A portable salinometer mounted on the multi-functional meter capable of measuring salinity in the range of 0-40 parts per thousand (ppt) was provided for measuring salinity of the water at each monitoring location.

2.5.6 Sampler

The water sampler comprises a transparent PVC cylinder, with a capacity of not less than 2 litres, which can be effectively sealed with latex cups at both ends. The sampler has 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.

2.5.7 Sample Containers and Storage

Water samples for SS were 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 analysed as soon as possible after collection. Sufficient volume of samples was collected to achieve the detection limit stated in **Table 2.4**.

2.5.8 Water Depth Detector

A portable, battery-operated echo sounder was used for the determination of water depth at each designated monitoring station. This unit could either be hand-held or affixed to the bottom of the work boat, if the same vessel is to be used throughout the monitoring programme.

2.5.9 Monitoring Position Equipment

Hand-held digital Differential Global Positioning System (DGPS) with way point bearing indication and Radio Technical Commission for maritime (RTCM) Type 16 error message 'screen pop-up' facilities (for real-time auto-display of error messages and DGPS corrections from the Hong Kong Hydrographic Office) was provided and used to ensure that the water sampling locations were correct during the water quality monitoring work.

- 2.6 Maintenance and Calibration
- 2.6.1 The multi-functional meters were checked and calibrated before use. Multi-functional meters were certified by a laboratory accredited under HOKLAS or any other international accreditation scheme, and subsequently re-calibrated at three monthly intervals throughout all stages of the water quality monitoring. Responses of sensors and electrodes were checked with certified standard solutions before each use. Wet bulb calibration for a DO meter was carried out before commencement of monitoring and after completion of all measurements each day. Calibration was not conducted at each monitoring location as daily calibration is adequate for the type of DO meter employed.
- 2.6.2 Sufficient stocks of spare parts were provided and maintained for replacements when necessary. Backup monitoring equipment was prepared for uninterrupted monitoring during equipment maintenance or calibration during monitoring.

2.7 Action and Limit Levels

2.7.1 The Action and Limit Levels have been set based on the derivation criteria specified in the Updated EM&A Manual and Detailed DCM Plan, as shown in **Table 2.6** below.

Parameters	Action	Limit					
Construction Pl	Construction Phase Impact Monitoring						
DO in mg/L	\leq 5 %-ile of baseline data	≤ 4					
SS in mg/L	\geq 95 %-ile of baseline data or 120% of control station's SS at the same tide of the same day of measurement, whichever is higher	\geq 99 %-ile of baseline data or 130% of control station's SS at the same tide of the same day of measurement, whichever is higher					
Turbidity in NTU	\geq 95 %-ile of baseline data or 120% of control station's turbidity at the same tide of the same day of measurement, whichever is higher	\geq 99 %-ile of baseline data or 130% of control station's turbidity at the same tide of the same day of measurement, whichever is higher					
Temperature in°C 1.8°C above the temperature recorded at representative control station at the same tide of the same day		2°C above the temperature recorded at representative control station at the same tide of the same day					

Table 2.6 Criteria of Action and Limit Levels for Water Quality

2.7.2 Based on the baseline monitoring data and the derivation criteria specified above, the Action/Limit Levels have been derived and are presented in **Table 2.7** and **Table 2.8** for both dry seasons (October – March) and wet seasons (April – September).

Parameters	Action	Limit						
Construction Pha	Construction Phase Impact Monitoring							
DO in mg/L	≤ 7.13	≤ 4						
SS in mg/L	\geq 8 or 120% of control station's SS at the same tide of the same day of measurement, whichever is higher	\geq 10 or 130% of control station's SS at the same tide of the same day of measurement, whichever is higher						
Turbidity in NTU	\geq 5.6 or 120% of control station's turbidity at the same tide of the same day of measurement, whichever is higher	\geq 12.8 or 130% of control station's turbidity at the same tide of the same day of measurement, whichever is higher						
Temperature in°C	1.8°C above the temperature recorded at representative control station at the same tide of the same day	2°C above the temperature recorded at representative control station at the same tide of the same day						

Table 2.7 Derived Action and Limit Levels for	· Water Quality Monitoring (Dry Season)
Tuble 217 Derived Action and Emitt Devels for	Water Quanty Monitoring (Dry Beason)

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.

Parameters	Action	Limit						
Construction Pha	Construction Phase Impact Monitoring							
DO in mg/L	\leq 5.28	\leq 4						
SS in mg/L	\geq 12 or 120% of control station's SS at the same tide of the same day of measurement, whichever is higher	\geq 14 or 130% of control station's SS at the same tide of the same day of measurement, whichever is higher						
Turbidity in NTU	\geq 4.0 or 120% of control station's turbidity at the same tide of the same day of measurement, whichever is higher	\geq 4.3 or 130% of control station's turbidity at the same tide of the same day of measurement, whichever is higher						
Temperature in°C	1.8°C above the temperature recorded at representative control station at the same tide of the same day	2°C above the temperature recorded at representative control station at the same tide of the same day						

Table 2.8 Derived Action and Limit Levels for Wat	er Ouality (Wet Season)
Tuble 110 Derried Heron and Emile Hereis for that	

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.

- 2.7.3 If exceedances were found during water quality monitoring, the actions in accordance with the Event and Action Plan shall be carried out according to **Appendix G**.
- 2.8 Monitoring Results and Observations
- 2.8.1 As confirmed by the Contractor on 14 October 2020, all DCM works was completed on 14 October 2020, the post DCM water quality monitoring was completed for further 4 weeks (i.e. from 16 October 2020 to 14 November 2020) according to the approved Detailed Plan on Deep Cement Mixing. As all DCM work and post DCM water quality monitoring were completed, no water quality monitoring was conducted at S1, S2A and S3 during the reporting period. General water quality monitoring at all the eleven monitoring stations were conducted on 2, 5, 7, 9, 11, 13, 16, 19, 21, 23, 26, 28 and 30 December 2022 during the reporting period.
- 2.8.2 Monitoring results of 6 key parameters: Salinity, DO, turbidity, SS, pH and temperature in this reporting period, are summarized in **Table 2.9**, and details are presented in **Appendix D**.

		Parameters						
Locations		Salinity (ppt)	Dissolved Oxygen (mg/L)		pН	Turbidity	Suspended	Temp.(°C)
			Surface & Middle	Bottom		(NTU)	Solids (mg/L)	
	Avg.	32.45	8.94	8.95	8.29	3.7	6.94	21.3
B1	Min.	30.51	8.13	8.15	8.18	2.6	2.00	20.0
	Max.	33.90	9.70	9.65	8.42	7.4	21.00	23.6
	Avg.	32.45	8.85	8.82	8.27	3.4	7.90	21.3
B2	Min.	30.27	8.24	8.24	8.12	2.6	2.00	20.1
	Max.	34.26	9.48	9.49	8.43	6.0	23.00	23.2
	Avg.	32.19	8.64	8.64	8.28	4.7	7.88	21.3
B3	Min.	30.51	8.19	8.20	8.16	3.2	2.00	20.0
	Max.	33.31	9.57	9.61	8.38	6.5	23.00	23.3
	Avg.	32.41	8.69	8.71	8.30	4.7	8.80	21.3
B4	Min.	30.97	8.06	8.19	8.19	3.2	2.00	19.9
	Max.	34.23	9.52	9.54	8.42	6.2	29.00	23.6
	Avg.	32.48	8.57	8.58	8.28	5.9	8.07	21.3
C1A	Min.	30.40	8.02	8.07	8.19	3.7	2.00	20.0
	Max.	34.21	9.64	9.68	8.42	7.9	21.00	23.5
	Avg.	32.48	8.80	8.80	8.28	5.9	8.40	21.2
C2A	Min.	30.26	8.08	8.02	8.11	4.1	2.00	20.0
	Max.	33.86	9.55	9.60	8.37	8.7	22.00	23.3
	Avg.	32.53	8.73	8.74	8.29	4.9	8.20	21.3
CR1	Min.	30.73	7.85	7.85	8.14	3.3	2.00	20.0
	Max.	34.06	9.74	9.69	8.40	7.7	25.00	23.2
	Avg.	32.37	8.78	8.81	8.28	5.0	8.51	21.2
CR2	Min.	30.39	8.14	8.22	8.15	3.2	2.00	19.9
	Max.	33.46	9.58	9.60	8.39	6.9	26.00	23.2
	Avg.	32.28	8.81	8.81	8.28	4.5	8.02	21.3
F1A	Min.	30.06	7.96	8.02	8.20	3.0	2.00	20.0
	Max.	33.72	9.61	9.60	8.38	6.1	22.00	23.2
	Avg.	32.37	8.66	8.67	8.30	4.7	8.26	21.2
H1	Min.	30.60	7.89	7.90	8.19	3.3	2.00	20.0
	Max.	33.90	9.48	9.40	8.44	7.4	32.00	23.2
	Avg.	32.41	8.81	8.82	8.29	4.5	8.43	21.3
M1	Min.	30.29	8.14	8.15	8.19	2.8	3.00	19.9
	Max.	33.96	9.64	9.60	8.47	7.7	23.00	23.4
S 1	Avg.	-	-	-	-	-	-	-
	Min.	-	-	-	-	-	-	-
<u> </u>	Max.	-	-	-	-	-	-	-
S2A	Avg.	-	-	-	-	-	-	-
	Min.	-	-	-	-	-	-	-
	Max.	-	-	-	-	-	-	-
S 3	Avg.	-	-	-	-	-	-	-
	Min.	-	-	-	-	-	-	-
	Max.	-	-	-	-	-	-	-

Notes:

i. "Avg", "Min" and "Max" is the average, minimum and maximum respectively of the data from measurements conducted under mid-flood and mid-ebb tides at three water depths, except that of DO where the data for "Surface & Middle" and "Bottom" are calculated separately.

ii. As all DCM works and post DCM water quality monitoring were completed, no water quality monitoring was conducted at S1, S2A and S3 in the report period.

iii. As all DCM works were completed on 14 October 2020, no water quality monitoring for total alkalinity was conducted in the report period.

- 2.8.3 During the reporting period, fourteen (14) of general water quality monitoring results of SS obtained during the reporting period had exceeded the Action Level and thirteen (13) of general water quality monitoring results of SS obtained during the reporting period had exceeded the Limit Level. Investigations were carried out for each exceedance during the reporting period.
- 2.8.4 During the water quality monitoring for ebb tide and flood tide on 2 and 5 December 2022, the location for monitoring station M1 was temporarily changed to the north of Cheung Chau (as shown on Figure 2.1) due to strong swell brought by monsoon. The coordinate of temporary monitoring location for M1 on 2 and 5 December 2022 was E809305, N821294.
- 2.8.5 No project-related Action Level & Limit Level exceedance was recorded from 1 December 2022 to 31 December 2022.
- 2.8.6 Details of the exceedance are presented in **Section 8**.
- 2.8.7 Mitigation measures minimizing the adverse impacts on water quality are listed in the implementation schedule given in **Appendix B.**

3. Noise Monitoring

3.1 Monitoring Requirements

- 3.1.1 To ensure no adverse noise impact, noise monitoring is recommended to be carried out at the nearby noise sensitive receivers (NSRs) during construction phase.
- 3.1.2 In accordance with the Updated EM&A Manual, baseline noise level at the noise monitoring stations was 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 hours on normal weekdays.
- 3.1.3 In accordance with the Updated EM&A Manual, additional weekly impact monitoring should be carried out during respective restricted hours period (1900 0700 hours) if the construction works were conducted at evening and night time. Additional weekly noise monitoring was conducted once per week in the form of 5-minutes measurements Leq, L10 and L90 levels recorded at each monitoring station between 1900 and 0700 hours as well as public holidays and Sundays.
- 3.2 Noise Monitoring Parameters, Time, Frequency
- 3.2.1 Impact noise monitoring was conducted weekly in the reporting period between 0700 and 1900 hours on normal weekdays. Additional impact noise monitoring was conducted weekly in the reporting period between 1900-0700 hours on all days as well as public holidays and Sundays.
- 3.2.2 Construction noise level measured in terms of the A-weighted equivalent continuous sound pressure level (L_{Aeq}). $L_{eq \ 30min}$ was used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. $L_{eq \ 5min}$ was used as the monitoring parameter for the time period between 1900 and 0700 hours as well as public holidays and Sundays. **Table 3.1** summarizes the monitoring parameters, frequency and duration of the impact noise monitoring and additional impact noise monitoring. The monitoring schedule is provided in **Appendix C**.

Monitoring Station Time		Duration	Parameters
	Day time: 0700-1900 hrs (during normal weekdays)		L _{eq} , L ₁₀ & L ₉₀
M1/ N_S1, M2/ N_S2, M3/ N_S3	Evening time: 1900-2300 hrs (including normal weekdays, also public holidays and Sundays)	Once per week L _{eq 5min} (3 sets of L _{eq 5min})	L _{eq} , L ₁₀ & L ₉₀
	Night time: 2300-0700 hrs (including normal weekdays, also public holidays and Sundays)	Once per week L _{eq 5min} (3 sets of L _{eq} _{5min})	L _{eq} , L ₁₀ & L ₉₀

Table 3.1 Noise Monitoring Parameters, Time, Frequency and Duration

3.3 Noise Monitoring Locations

3.3.1 Three noise monitoring locations for impact monitoring and additional impact monitoring at the nearby sensitive receivers are shown in Figure 3.1.

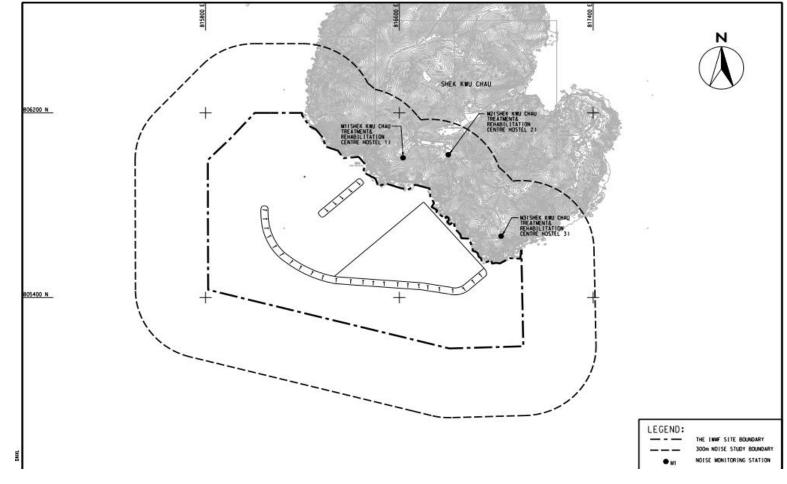


Figure 3.1 Noise monitoring locations at SKC

- 3.3.2 M1, M2 and M3 are Shek Kwu Chau Treatment and Rehabilitation Centre Hostel 1, 2 and 3 respectively of The Society for the Aid and Rehabilitation of Drug Abusers (SARDA) located at southern part of Shek Kwu Chau.
- 3.3.3 Measurements at M1 & M3 were conducted at a point 1m from the exterior of the sensitive receivers building façade and at a position 1.2m above the ground. Measurement setup at M3 has been varying with minor adjustment to minimize the disturbance to the users of Treatment Centre. Measurement at M2 was conducted at a point 1m from building façade of the ceiling of 1st floor level for avoidance of mutual disturbance with users of Treatment Centre. The minor adjustment of monitoring locations, which were in favour to mutual convenience with the users of Treatment Centre, were found with no effect on monitoring result based on on-site observation and experience from the Baseline monitoring of the Project. The noise monitoring stations are summarized in **Table 3.2** below.

Station	NSR ID in EIA Report	Noise Monitoring Location	Type of sensitive receiver(s)	Measurement Type	
M1	N_S1	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 1	Residential	Façade	
M2	N_S2	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 2	Residential	Façade	
M3	N_S3	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 3	Residential	Façade	

Table 3.2 Noise Monitoring Location

- 3.4 Impact Monitoring Methodology
- 3.4.1 At each designated monitoring location, measurements of six 5-minute A-weighted equivalent sound pressure level [" $L_{eq 5min}$ "] was carried out between 0700 and 1900 hours for daytime measurements on a normal weekdays (excluding Sunday or general holiday). The measured six impact noise levels at each monitoring location shall then be averaged in logarithmic scale and expressed in terms of the 30-minute A-weighted equivalent continuous sound pressure level ($L_{eq 30min}$) for the time period between 0700 and 1900 hours on normal weekdays.
- 3.4.2 At each designated monitoring location, measurements of three 5-minute A-weighted equivalent sound pressure level ["L_{eq 5min}"] was carried out between 1900 and 0700 hours for evening time and night time measurements.
- 3.4.3 The monitoring procedures are as follows:
 - The microphone head of the sound level meter was normally positioned 1 m exterior of the noise sensitive façade and lowered sufficiently so that the building's external wall acts as a reflecting surface.
 - If there is a problem with the access to the normal monitoring position, an alternative may be chosen and appropriate correction would be applied according to acoustic principle when necessary. For reference, +3 dB(A) correction would be made for free-field measurements.
 - The battery condition was checked to ensure good functioning of the meter.
 - Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - Frequency weight: A
 - Time weighting: Fast
 - Measurement time: 5 minutes

- Prior to and after noise measurement, the meter was calibrated using the calibrator for 94.0 dB at 1000Hz. If the difference in the calibration level before and after measurement is more than 1.0 dB, the measurement was considered invalid and repeat of noise measurement was required after re-calibration or repair of the equipment.
- Noise monitoring was carried out for 30 minutes by sound level meter. At the end of the monitoring period, noise levels in terms of L_{eq}, L₁₀ and L₉₀ were recorded. In addition, site conditions and noise sources were recorded when the equipment was checked and inspected.
- All the monitoring data within the sound level meter system was downloaded through the computer software.
- 3.5 Monitoring Equipment
- 3.5.1 Integrated sound level meter was used for the noise monitoring. The meter shall comply with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications.
- 3.5.2 Equipment used in the impact noise monitoring programme is summarized in Table3.3 below. Calibration certificates for the noise monitoring equipment are attached in Appendix H.

Table 3.3 Impact Noise Monitoring Equipment

Equipment	Brand and Model
Sound Level Meter	SVANTEK 971
Sound Calibrator	RION NC-75

- 3.6 Maintenance and Calibration
- 3.6.1 The maintenance and calibration procedures were as follows:
 - The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
 - The sound level meter and calibrator were checked and calibrated at yearly intervals
 - 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 from before and after the noise measurement agree to within 1.0dB.
- 3.7 Action and Limit Levels
- 3.7.1 The Action/Limit Levels 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 is presented in Table 3.4.

Time Period	Action	Limit (dB(A))			
0700-1900 hrs on normal	When one documented	$75 dD(\Lambda)$			
weekdays	complaint is received	75 dB(A)			

Table 3.4 Action and Limit Levels for Noise per Updated EM&A Manual

Notes: If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

- 3.7.2 If exceedances were found during noise monitoring, actions in accordance with the Event and Action Plan shall be carried out according to **Appendix I**.
- 3.8 Monitoring Results and Observations
- 3.8.1 Impact monitoring for noise impact for daytime was carried out on 5, 12, 19 and 29 December 2022. Impact monitoring for noise impact for evening time and night time was carried out on 5&6, 12&13, 19&20 and 29&30 December 2022. The impact noise levels at Noise Monitoring Stations at SKC (i.e. M1/N_S1 to M3/N_S3) are summarized in **Table 3.6**, **Table 3.7** and **Table 3.8** respectively. Details of noise monitoring results are presented in **Appendix J**.
- 3.8.2 Major construction activity, major noise source and extreme weather which might affect the results were recorded during the impact monitoring.
- 3.8.3 According to our field observations, the major noise source identified at the noise monitoring station in the reporting month are summarised in **Table 3.5**. Sound from the intermittent piling work was the noticeable noise source for monitoring stations M1, M2 and M3. Air conditioning units were also observed nearby monitoring stations M3.

Monitoring Station	Major Noise Source
M1	Sound from the intermittent piling work
M2	Sound from the intermittent piling work
M3	Sound from the intermittent piling work, air-conditioner

Table 3.5 Summary of Field Observation

3.8.4 No data from impact monitoring during daytime has exceeded the stipulated limit level at 75 dB(A).

Location	Measured Noise Level in dB(A)								
	Range of Leq 30min	Range of L _{10 30min}	Range of L _{90 30min}						
M1	58.6 - 65.5	59.8 - 70.2	52.6 - 55.5						
M2	52.8 - 57.6	54.4 - 59.9	50.8 - 52.9						
M3	57.7 – 68.1	61.7 – 70.4	51.3 - 56.6						

Table 3.6 Summary of Impact Noise Monitoring Results during Day Time (0700 – 1900 hours)

- 3.8.5 Applicable mitigation measures for construction works are fully implemented as shown in **Appendix B**, where double-glazed windows and air conditioning system were also installed and confirmed operable for the NSRs (N_S1, N_S2 & N_S3).
- 3.8.6 During the noise monitoring event, frontline staff of ET had inquired the treatment centre users on any noise disturbance from the construction activities at evening and night time, where no complaint and adverse opinions was received.
- 3.8.7 Where site inspection and auditing on Contractor's record have shown that the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority for construction works during restricted hours were followed, no inappropriate practice was spotted during evening time and night time construction works. Thus, the stipulated requirement on noise impact control during night time and evening time was achieved.

Location	Measured Noise Level in dB(A)								
	Range of Leq 5min	Range of L _{10 5min}	Range of L90 5min						
M1	41.6 - 47.5	43.3 - 54.1	39.6 – 45.1						
M2	46.6 - 55.3	47.8 - 61.4	44.6 - 50.1						
M3	42.7 – 46.5	43.5 - 48.8	41.3 - 45.6						

Table 3.7 Summary of Additional Impact Noise Monitoring Results during Evening Time (1900 – 2300 hours)

Table 3.8 Summary of Additional Impact Noise Monitoring Results during Night Time	
(2300 – 0700 hours)	

Location	Measured Noise Level in dB(A)								
	Range of Leq 5min	Range of L _{10 5min}	Range of L _{90 5min}						
M1	39.8 - 44.6	41.1 – 45.9	38.1 - 43.0						
M2	45.1 - 58.4	46.6 - 61.4	43.9 - 53.7						
M3	40.2 - 49.5	40.9 - 50.3	39.4 - 47.7						

4. WASTE

4.1 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.

4.2 As advised by the Contractor, about 29,141.1 m^3 of C&D materials were generated on site in the reporting month, of which 29,141.1 m^3 of the materials were reused in other projects. For C&D waste, no metal was generated and collected by registered recycling collector. no paper was collected by the registered recycling collector. No plastic waste was collected by registered recycling collector. No chemical waste was collected by the licensed chemical waste collector. 253.5 m³ of other types of wastes (e.g. general refuse) was disposed of at designated landfill. No fill sand or public fill was imported during the reporting period. 3,517.4 m³ of fill rock was imported during the reporting period.

4.3 Chemical waste generated from land-based construction activities was stored in the chemical waste cabinet for temporary storage.

4.4 With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting month are summarised in **Table 4.1**. Details of cumulative waste management data are presented as a waste flow table in **Appendix K**.

4.5 The Contractor is advised to sort and store any solid and liquid waste on-site properly prior to disposal.

	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly						
	Total	Hard Rock	Reused in	Reused in	Disposed	Imported Fill		Papar /		Plastics			Others,	
Reporting Month	Quantity Broken the		other Projects	Disposed as Public Fill	Sand	Public Fill	Rock	Metals	Paper / cardboard packaging	(see Note 2)	Chemical Waste		e.g. general refuse (see Note 3)	
	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)		(in ,000m ³)		(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	(in ,000m ³)
Dec 2022	29.1411	0	0	29.1411	0	0	0	3.5174	0	0	0	0	0	0.2535

Notes: (1) Broken concrete for recycling into aggregates.

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

(3) Use the conversion factor: 1 full load of dumping truck being equivalent to $6.5m^3$ by volume.

(4) Use the conversion factor: rock density = 2 T/m^3 .

5. CORAL

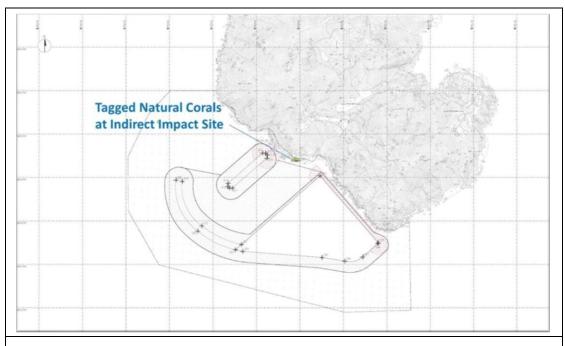
- 5.1 Coral Monitoring Requirements
- 5.1.1 To monitor the health condition of corals during different phases, corals located within areas likely to be affected by the Project, corals located at control sites (areas unlikely to be affected by the Project), the trans-located coral colonies as well as the tagged natural coral colonies at the recipient site were chosen, in order to identify any adverse indirect impact from the marine works. The size, percentage cover and health condition of corals (i.e. any sign of abnormal appearance, such as layer of mucus, bleaching, partial mortality etc.) at representative transects should be recorded during each monitoring.
- 5.2 Coral Monitoring Parameters, Time, Frequency
- 5.2.1 Rapid Ecological Assessment (REA) survey was conducted on 26 June 2018 at the suggested control site and indirect impact site within two weeks before commencement of the construction work which was 29 June 2018. 10 selected hard coral colonies with the similar species were tagged at both control and indirect impact sites. Following coral translocation in the recipient site R3, 16 coral colonies attached to rocks less than 50 cm in diameter were translocated and tagged, as well as 10 selected natural coral colonies, at the recipient site. One additional REA survey was conducted in December 2018 to further assess the seabed condition at Indirect Impact Site after Typhoon Mangkhut.
- 5.2.2 Tagged coral colonies at the suggested control site and indirect impact site are being monitored weekly for the first month and followed by monthly monitoring for two months. Quarterly monitoring will be carried out after the first three-month of monthly monitoring until the completion of marine works and bi-annual monitoring will be carried out after the completion of marine works. The selected Control Site is located at Yuen Kong Chau of Soko Islands about 7 km away from the project area. Tagged coral colonies at the proposed recipient site are being monitored quarterly for one year. The selected recipient site R3 is located at the opposite side of the Project area at about 2 km away. The detailed survey of the Control Site and Impact Site were conducted before the commencement of the Construction Phase.
- 5.2.3 Monitoring recorded the following parameters (using the same methodology adopted during the pre-translocation survey); the size, presence, health conditions (percentage of mortality/bleaching) and percentage of sediment of each tagged coral colony. The general environmental conditions including weather, sea, and tidal conditions of impact site, control site and recipient site were monitored.
- 5.2.4 **Table 5.1** summarizes the monitoring locations, time and frequency of the tagged coral colonies monitoring. The monitoring schedule is provided in **Appendix C**.

Monitoring Location	Monitoring Month/Year	Frequency	No. of Monitoring Survey		
	1 st Month	Weekly Survey	4		
	2 nd to 3 rd Months	Monthly Survey	2		
	4 th Month (postponed	Re-tagging of Cora	al Colonies in Indirect		
	to 5 th month due to	Impact Site after Ty	phoon Mangkhut		
	diver accident in Shek				
	Kwu Chau in October				
	2018)				
	4 th Month (postponed	Re-tagging of Cora	al Colonies in Control		
	to 5 th month due to	Site after Typhoon M	Mangkhut		
	diver accident in Shek		-		
	Kwu Chau in October				
	2018 and further				
	postpone to 6 th month				
	due to adverse				
	weather)				
	5 th Month (postponed	Post Re-tagging	1		
	to 6 th month due to	Monthly Survey			
	diver accident in Shek				
	Kwu Chau and further				
10 selected hard coral	postponed to 7 th				
colonies at control site /	month due to delay of				
indirect impact site	re-tagging activities at				
1	both Indirect Impact				
	Site and Control Site)				
	7 th to 56 th Months	Quarterly Survey	16		
	(postponed to 8 th to				
	57 th month due to				
	diver accident in Shek				
	Kwu Chau in October				
	2018) 57 th to 76 th Months	D: 11	2		
		Bi-annually	3		
	(The marine	Survey			
	construction work is				
	anticipated to be				
	completed by February 2023, the				
	frequency of				
	monitoring will be				
	changed to bi-annual				
	with reference to the				
	Updated EM&A				
	Mannual (Rev.E))				
16 translocated hard					
coral colonies and 10					
selected natural hard	1 st Year	Quarterly Survey	4		
coral colonies at					
recipient site R3					

 Table 5.1 Tagged Coral Monitoring Locations, Time and Frequency

5.3 Coral Monitoring Locations

5.3.1 Location of the ten tagged coral colonies at each of the proposed indirect impact site (re-tagging after typhoon Mangkhut), control site (baseline) and recipient site R3 (translocation) are shown in **Figure 5.1**, **Figure 5.2** and **Figure 5.3** respectively:



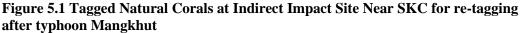




Figure 5.2 Tagged Natural Corals at Control Site Near Yuen Kong Chau for retagging after typhoon Mangkhut



Figure 5.3 Tagged Translocation Corals at Recipient Site R3 near SKC

5.3.2 The GPS coordinates of the tagged coral colonies, retagged coral colonies and recipient site were shown in **Table 5.2**, **Table 5.3** and **Table 5.4** respectively.

Coral #	GPS Co	ordinates
1	N22°09'45.96"	E113°54'57.81"
2R	N22°11'29.12"	E113°59'09.01"
3	N22°09'45.81"	E113°54'57.78"
4	N22°09'45.70"	E113°54'57.95"
5R	N22°11'29.10"	E113°59'09.18"
6	N22°09'45.75"	E113°54'58.02"
7R	N22°11'29.17"	E113°59'08.86"
7	N22°09'45.65"	E113°54'57.94"
8	N22°09'45.53"	E113°54'57.90"
9	N22°09'46.23"	E113°54'54.70"
10R	N22°11'29.18"	E113°59'08.91"

Table 5.2 Tagged Natural Corals during Baseline and Re-tagged Natural Corals afterTyphoon Manghkut at Control Site near Yuen Long Chau

Notes:

i. The re-tagged corals were marked as ##**R**.

Table 5.3 Re-tagged Natural Corals after Typhoon Manghkut at Indirect Impact Site near SKC

Coral # note i	GPS Coordinates					
11R	N22°11'29.14"	E113°59'08.92"				
12R	N22°11'29.12"	E113°59'09.01"				
13R	N22°11'29.11"	E113°59'09.07"				
14R	N22°11'29.13"	E113°59'09.12"				
15R	N22°11'29.10"	E113°59'09.18"				
16R	N22°11'29.07"	E113°59'09.23"				
17R	N22°11'29.17"	E113°59'08.86"				
18R	N22°11'29.14"	E113°59'08.94"				
19R	N22°11'29.20"	E113°59'08.81"				
20R	N22°11'29.18"	E113°59'08.91"				

Notes:

i. The re-tagged corals were marked as ##**R**.

Table 5.4 GPS Coordinates of Recipient Site R3

Site	GPS Coordinates			
R3	N22°11'43.69"	E113°28.99"		

- 5.4 Impact Monitoring Methodology
- 5.4.1 Health status of coral was assessed by the following criteria:
 - Hard coral: Percentage of surface area exhibiting partial mortality and blanched/bleached area of each coral colony and degree of sedimentation.
- 5.5 Action and Limit Levels
- 5.5.1 Monitoring result was reviewed and compared against the below Action Level and Limit Level (AL/LL) as set with the below **Table 5.5** and **Table 5.6**.

Parameter	Action Level	Limit Level
Mortality	a 15% increase in the percentage of partial mortality on the corals occurs at more than 20% of the tagged indirect impact site	percentage of partial mortality on the corals occurs at more than 20% of the tagged indirect impact site coral colonies that is not recorded

Table 5.5 Action and Limit Levels for Construction Phase Coral Monitoring

Table 5.6 Action and Limit Levels for Post-Translocation Coral Monitoring

Parameter	Action Level	Limit Level
Mortality	Monitoring a 15% increase in the percentage of partial mortality on the corals occurs at more than 20% of the translocated coral colonies	mortality on the corals occurs at more than 20% of the translocated coral colonies that is not recorded on the original corals in the recipient site,

- 5.5.2 If exceedance was found during coral monitoring. The actions in accordance with the Event and Action Plan should be carried out according to **Appendix L.**
- 5.6 Monitoring Results and Observations
- 5.6.1 The 16th quarterly coral monitoring during construction phase at both Indirect Impact Site and Control Site was conducted on 29 December 2022 and the weather condition was summarized in **Table 5.7**.

Table 5.7 Weather Condition for the 16th Quarterly Coral Monitoring during Construction Phase at both Indirect Impact Site and Control Site

Date	Condition	Average Underwater Visibility
29 December 2022	Northeast wind force 5 to 6Sunny	Less than 10 cm

5.6.2 Ten (10) hard coral colonies were monitored at each Control site and Indirect Impact Site as suggested in the Construction Phase Monitoring Plan. The general health conditions (size, mortality, bleaching and sediment) were recorded and summarized in **Table 5.8** and **Table 5.9**. Photos of each coral colonies were taken during the monitoring activities shown in **Photo Plate 5.1** and **Photo Plate 5.2**.

Table 5.8 Sizes, Condition, Mortality, Bleaching and Sediment of 10 Natural Coral Colonies at Control Site during 16th Quarterly Coral Monitoring

Tag #	Species	Size (cm) – Max.	Max. Condition		Bleaching (%)		Sediment (%)		
		Diameter		Baseline	29/12	Baseline	29/12	Baseline	29/12
1	Goniopora stutchburyi	25	Good	0	0	0	0	0	0
2R	Goniopora stutchburyi	10	Good	0	0	0	0	0	0
3	Psammocora superficialis	18	Good	0	0	0	0	0	0
4	Turbinaria peltata	13	Good	0	0	0	0	0	0
5R	Goniopora stutchburyi	18	Good	0	0	0	0	0	0
6	Cyphastrea serailia	43	Good	0	0	0	0	0	0
7R	<i>Coscinaraea</i> sp.	15	Good	0	0	0	0	0	0
8	Goniopora stutchburyi	21	Good	0	0	0	0	0	0
9	Goniopora stutchburyi	11	Good	0	0	0	0	0	0
10R	Goniopora stutchburyi	20	Good	0	0	0	0	0	0

Notes:

i. The re-tagged corals were marked as ##**R**.

Table 5.9 Sizes, Condition, Mortality, Bleaching and Sediment of 10 Natural Coral	
Colonies at Indirect Impact Site during 16 th Quarterly Coral Monitoring	

Tag #	Species	Size (cm) – Max.	Condition	Mortal	ity (%)	Bleachi	ng (%)	Sedime	nt (%)
		Diameter		Baseline	29/12	Baseline	29/12	Baseline	29/12
11R	Cyphastrea serailia	48	Good	0	0	0	0	0	0
12R	Favites chinensis	27	Good	0	0	0	0	0	0
13R	Turbinaria peltata	21	Good	0	0	0	0	0	0
14R	Favites chinensis	8	Good	0	0	0	0	0	0
15R	Goniopora stutchburyi	11	Good	0	0	0	0	0	0
16R	Psammocora superficialis	27	Good	0	0	0	0	0	0
17R	Favites chinensis	15	Good	0	0	0	0	0	0
18R	Psammocora superficialis	39	Good	0	0	0	0	0	0
19R	Psammocora superficialis	42	Good	0	0	0	0	0	0
20R	Psammocora superficialis	29	Good	0	0	0	0	0	0

Notes:

i. The re-tagged corals were marked as ##**R**.

Photo Plate 5.1	Ten (10) Monitored Corals at Control Site
Tag #	29 December 2022
#1	Goniopora stutchburyi
	Compose since ou fi
#2R	Goniopora stutchburyi
	- Aller and a second
#3	
	Psammocora superficialis
#4	
	Turbinaria peltata

Photo Plate 5.1Ten (10) Monitored Corals at Control Site

Tag #	29 December 2022
#5R	Goniopora stutchburyi
#6	Cyphastrea serailia
#7R	Coscinaraea sp.
#8	Goniopora stutchburyi

Tag #	29 December 2022				
#9	Goniopora stutchburyi				
#10R	Goniopora stutchburyi				

Notes:

i. The re-tagged corals were marked as ##**R**.

Photo Plate 5.2	Ten (10) Monitored Corals at Indirect Impact Site
Tag #	29 December 2022
#11R	Cyphastrea serailia
	Cyphastrea serana
#12R	Favites chinensis
#13R	Turbinaria peltata
#14R	
	Favites chinensis



Tag #	29 December 2022
#15R	Goniopora stutchburyi
#16R	Psammocora superficialis
#17R	Favites chinensis
#18R	Psammocora superficialis

Tag #	29 December 2022
#19R	Psammocora superficialis
#20R	Psammocora superficialis

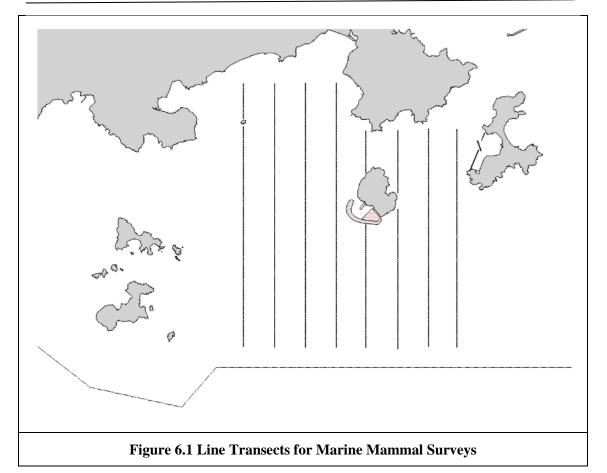
Notes:

- 5.6.3 The coral re-tagging activities were carried out in the control site and indirect impact area on 23 November and 3 December 2018. Four and ten hard coral colonies were successfully re-tagged at both control and indirect impact sites respectively. Each re-tagged and remained coral colonies were photographed.
- 5.6.4 All tagged and re-tagged coral colonies showed good health condition during the 16th Quarterly Construction Phase Monitoring. There was no increased level of mortality, bleaching and sediment when compared with the baseline results.
- 5.6.5 No sediment, bleaching or increased mortality in the general condition of coral colonies were observed during the tenth construction phase monitoring period. No deterioration of the coral community was observed in the ecological monitoring results when compared with the baseline ecological monitoring results. There is no AL/LL exceedance during the monitoring period. Photos of each tagged corals colonies were taken and shown in **Photo Plates 5.1** and **Photo Plate 5.2**.

i. The re-tagged corals were marked as $##\mathbf{R}$.

6. MARINE MAMMAL

- 6.1 Monitoring Requirements
- 6.1.1 The marine mammal monitoring programme would focus on Finless Porpoise, as the study area near Shek Kwu Chau has been identified as a hotspot for this species, while the Chinese White Dolphins rarely occurred there in the past.
- 6.1.2 The monitoring will verify the predicted impacts on marine mammals and examine whether the mitigation measures recommended in the EIA report have been effectively implemented to protect marine mammals from negative impacts from construction activities.
- 6.1.3 The Vessel-based Line-transect Survey, the Passive Acoustic Monitoring and the Land-based Theodolite Tracking will be conducted to provide systematic, quantitative measurements of occurrence, encounter rate, habitat use, movement and behavioural patterns of marine mammals within or near the Project Area during construction and operational phases.
- 6.1.4 The mammal monitoring works during construction consist of the following three survey methods:
 - Vessel-based Line-transect Survey to monitor the occurrence of Finless Porpoises (and Chinese White Dolphins) in the study area during construction works, by comparing with the findings of the pre-construction marine mammal monitoring;
 - Passive Acoustic Monitoring to study the usage of the Project Area and two control sites in South Lantau Waters by Finless Porpoise during construction works, in reference with the baseline findings of the pre-construction marine mammal monitoring; and
 - Land-based Theodolite Tracking to study the movement and behavioral pattern of Finless Porpoise within and around the Project Area during construction works.
- 6.1.5 The marine mammal observation works of Marine Mammal Exclusion Zone (MMEZ) and Marine Mammal Watching as two of the specific mitigation measures recommended in the approved EIA report shall be fully and properly implemented for the Project to minimize disturbance on Finless Porpoise during construction and operational phases.
- 6.2 Survey Methods
- 6.2.1 Vessel-based Line-transect Survey
- 6.2.1.1 For the vessel-based marine mammal surveys, the monitoring team adopted the standard line-transect method (Buckland et al. 2001) as same as that adopted during the EIA study and pre-construction phase monitoring to allow fair comparison of marine mammal monitoring results.
- 6.2.1.2 Eight transect lines are set at Southeast Lantau survey area, including Shek Kwu Chau, waters between Shek Kwu Chau and the Soko Islands, inshore waters of Lantau Island (e.g. Pui O Wan) as well as southwest corner of Cheung Chau as shown in **Figure 6.1** below:



6.2.1.3 The surveys should cover all 4 seasons in order to take natural fluctuation and seasonal variations into account for data analysis of distribution, encounter rate, density and habitat use of both porpoises and dolphins (if any). In comparison to the baseline monitoring results, results from the analysed construction phase monitoring data would allow the detection of any changes of their usage of habitat, in response to the scheduled construction works. The monitoring surveys shall be conducted throughout the construction phase involving marine construction work with the frequency shown in **Table 6.1** below:

Table 6.1 Vessel-based Line-transect Survey Frequenc
--

Season	Months	Frequency
Peak Season	December, January, February, March, April & May	Twice per month
Non-peak Season	June, July, August, September, October & November	Once per month

6.2.1.4 For each vessel survey, a 15-m inboard vessel with an open upper deck (about 4.5 m above water surface) would be used to make observations from the flying bridge area. Two experienced marine mammal observers (a data recorder and a primary observer) would make up the on-effort survey team, and the survey vessel would transit different transect lines at a constant speed of 13-15 km per hour. The data recorder shall search with unaided eyes and fill out the datasheets, while the primary observer shall search for dolphins and porpoises continuously through 7 x 50 marine binoculars. Both observers shall search the sea ahead of the vessel, between 270° and 90° (in relation to the bow, which is defined as 0°). Two additional experienced observers shall be available on the boat to work in shift (i.e. rotate every 30 minutes) in order to minimize fatigue of the survey team members. All observers shall be

experienced in small cetacean survey techniques and identifying local cetacean species with extensive training by marine mammal specialist of the ET.

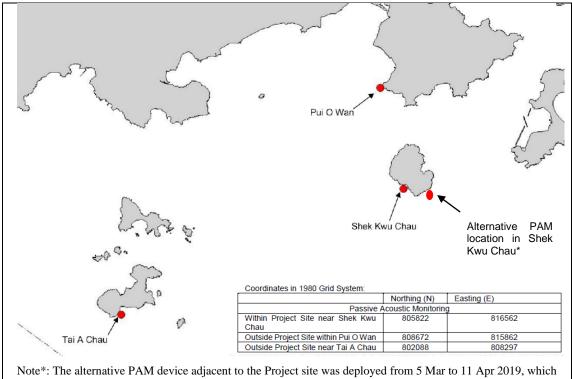
- 6.2.1.5 During on-effort survey periods, the survey team shall record effort data including time, position (latitude and longitude), weather conditions (Beaufort sea state and visibility), and distance travelled in each series (a continuous period of search effort) with the assistance of a handheld GPS (Garmin eTrex Legend). Data including time, position and vessel speed would also be automatically and continuously logged by handheld GPS throughout the entire survey for subsequent review.
- 6.2.1.6 When porpoises or dolphins are sighted, the survey team shall end the survey effort, and immediately record the initial sighting distance and angle of the porpoise or dolphin group from the survey vessel, as well as the sighting time and position. Then the research vessel shall be diverted from its course to approach the animals for species identification, group size estimation, assessment of group composition, behavioural observations, and collection of identification photos (feasible only for Chinese White Dolphin). The perpendicular distance (PSD) of the porpoise or dolphin group to the transect line would then be calculated from the initial sighting distance and angle, which shall be used in the line-transect analysis for density and abundance estimation.
- 6.2.1.7 The line-transect survey data shall be integrated with a Geographic Information System (GIS) to visualize and interpret different spatial and temporal patterns of porpoise and dolphin distribution using their sighting positions collected from vessel surveys. Location data of porpoise and dolphin groups would be plotted on map layers of Hong Kong using a desktop GIS (e.g. ArcView© 3.1) to examine their distribution patterns in details. The encounter rate could be used as an indicator to determine areas or time periods of importance to porpoises within the study area. For encounter rate analysis of finless porpoises, only survey data collected under Beaufort 2 or below condition would be used for encounter rate analysis.
- 6.2.1.8 To take into account of the variations of survey effort across different sections within survey area, the quantitative grid analysis of habitat use would be conducted to examine finless porpoise usage among 1-km² grids within the Southeast Lantau survey area. For the grid analysis, SPSE (sighting density) and DPSE (porpoise density) values would be deduced for evaluation on level of porpoise usage. First, positions of on-effort porpoise sightings from the study period are plotted onto 68 grids (1 km x 1 km each) within the survey area. Sighting density grids and porpoise density grids shall then be normalized with the amount of survey effort conducted within each grid. The total amount of survey effort spent on each grid shall be calculated by examining the survey coverage on each line-transect survey to determine how many times the grid had been surveyed during study period. With the amount of survey effort calculated for each grid, the sighting density and porpoise density of each grid shall be further normalized (i.e. divided by the unit of survey effort).
- 6.2.1.9 The newly-derived unit for sighting density was termed SPSE, representing the number of on-effort sightings per 100 units of survey effort. In addition, the derived unit for actual porpoise density was termed DPSE, representing the number of dolphins/porpoise per 100 units of survey effort. Among the 1-km² grids that were partially covered by land, the percentage of sea area was calculated using GIS tools, and their SPSE and DPSE values were adjusted accordingly. The following formulae shall be used to estimate SPSE and DPSE in each 1-km² grid within the study area:

 $SPSE = ((S / E) \times 100) / SA\%$ $DPSE = ((D / E) \times 100) / SA\%$

where S = total number of on-effort sightings D = total number of dolphins/porpoises from on-effort sightings E = total number of units of survey effortSA% = percentage of sea area

6.2.2 Passive Acoustic Monitoring (PAM)

The PAM aims to study the usage of an area by Finless Porpoise by using an array of automated static porpoise detectors (e.g. C-POD) which would be deployed at different locations to detect the unique ultra-high frequency sounds produced by Finless Porpoise. During the construction period, the PAM survey will be conducted including placement of two passive porpoise detectors outside the Project Area as control site (i.e. within Pui O Wan and to the south of Tai A Chau) and one porpoise detector within the Project Area (i.e. near Shek Kwu Chau) as shown in **Figure 6.2** below.



Note*: The alternative PAM device adjacent to the Project site was deployed from 5 Mar to 11 Apr 2019, which contained a full 37 days acoustic monitoring data set. After the confirmation of loss of the original PAM within the Project site, this data set was proposed to replace that of the original one, as consulted with AFCD accordingly.

Figure 6.2 Locations of Passive Acoustic Monitoring

6.2.3 These three detectors will be deployed on-site to carry out 24-hours monitoring for a period listed as **Table 6.2** below during the construction phase.

 Table 6.2 PAM Deployment Period

Season	Months	Deployment Period
Peak Season	December, January, February,	At least 30 days during the peak
	March, April or May	months of porpoise occurrence
		in South Lantau waters

- 6.2.3.1 The automated static porpoise detectors shall detect the presence and number of finless porpoise and Chinese White Dolphins respectively over the deployment period, with the false signal such as boat sonar and sediment transport noise distinguished and filtered out. The detectors shall be deployed and retrieved by professional dive team on the seabed of the three selected location shown in Figure 6.2. During each deployment, the C-POD unit serial numbers as well as the time and date of deployments shall be recorded. Information including the GPS positions and water depth at each of the deployment locations shall also be obtained.
- 6.2.3.2 The diel patterns (i.e. 24-hour activity pattern) of finless porpoise occurrence among the three sites at Shek Kwu Chau, Tai A Chau and Pui O Wan shall be analyzed. Peaks and troughs of finless porpoise occurrence per hour of day would be identified and compared with the results obtained from pre-construction monitoring.
- 6.2.4 Land-based Theodolite Tracking
- 6.2.4.1 The Land-based Theodolite Tracking study would use the same station as in the AFCD monitoring study (same as the baseline monitoring location), which is situated at the southwest side of Shek Kwu Chau (GPS position: 22°11.47' N and 113°59.33' E) as shown in below **Figure 6.3**. The station was selected based on its height above sea level (at least 20 metres), close proximity to shore, and relatively unobstructed views of the entire Project Area to the southwest of Shek Kwu Chau. The height of the Shek Kwu Chau Station established by the HKCRP team is 74.6 m high at mean low water, and only a few hundred metres to the IWMF reclamation site, which is ideal for the purpose for the present behavioural and movement monitoring of finless porpoises as well during construction phase considering there as an un-obstructed vantage point at a height above the Project Site.

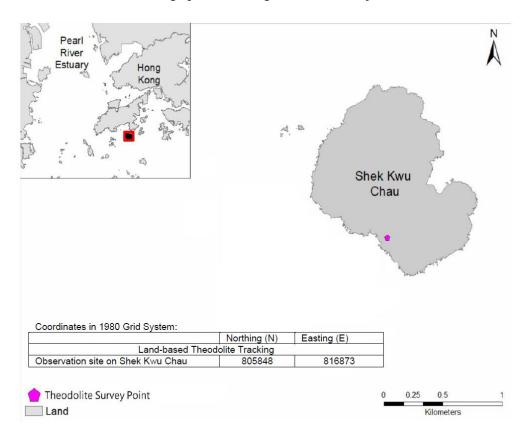


Figure 6.3 Locations of Land-based Theodolite Tracking

During the construction phase, Land-based Theodolite Tracking will be carried out for approximately six hours of tracking for each day of field work for a period listed as **Table 6.3** below, preferably at the initial stage of the construction period (i.e. December 2018 to May 2019).

Table 6.	3 Lan	d-based	Theod	lolite Tı	racking	Survey	Period
						~~~~~	

Season Months Survey Period		Survey Period
Peak Season	December, January, February,	30 days during the peak months
	March, April or May	of porpoise occurrence in South
		Lantau waters

- 6.2.4.2 The monitoring period for land-based theodolite tracking will be proposed to be overlapped with the PAM. The monitoring team consists of one experienced theodolite operator and at least two field observers for assistance. To conduct theodolite tracking, the observers will search systematically for Finless Porpoise using the unaided eye and 7 x 50 handheld binoculars on each survey day throughout the study area. When an individual or group of porpoises is located, a theodolite tracking session will be initiated and focal follow methods will be used to track the porpoise(s). Behavioural state data (i.e. resting, milling, travelling, feeding and socializing) shall also be recorded every 5 minutes for the focal individual or group. Positions of porpoises and boats shall be measured using a digital theodolite connected to a laptop computer. This tracking survey was conducted during the peak season between December 2018 and May 2019 for 30 surveys spanning across 15-16 weeks during the peak season to provide good temporal coverage during the initial stage of the construction period.
- 6.3 Specific Mitigation Measures
- 6.3.1 Monitored exclusion zones
- 6.3.1.1 A MMEZ with 250 m distance from silt curtain shall be established during the above situation. If 3 or more construction vessels are required with MMO's duty and operating in close proximity, for the purpose of avoiding accidental entrance to the works area by Marine Mammal, a cluster MMEZ plan will be implemented to form a MMEZ with 250 m distance from the boundary of a work area as indicated in Figure 1 for reference. A team of MMO (i.e. at least two MMOs per day/night shift teams) would be arranged at the out-lying construction vessels to form the cluster MMEZ. The MMEZ serves as a monitoring approach to provide appropriate and immediate actions once finless porpoise or Chinese White Dolphin is sighted within the MMEZ. All MMEZ will be monitored by competent Marine Mammal Observers (MMOs) to be provided by the Environmental Team for the IWMF and trained by the Marine Mammal Monitoring Specialist of the ET who is independent from KSZHJV. The marine mammal observer(s) shall be independent of the construction contractor and shall form part of the Environmental Team and have the power to call-off construction activities.
- 6.3.1.2 According to the Condition 2.25 of the FEP, MMEZ should be implemented during the installation/re-installation/relocation process of floating type silt curtains in order to avoid the accidental entrance and entrapment of marine mammals within the silt curtains. Also, marine construction works expected to produce underwater acoustic disturbance as per Condition 2.27 of the FEP, especially within December and May, would require the implementation of MMEZ, which currently all those specific construction activities have been replaced by less acoustically disturbing construction methods such as Deep Cement Mixing (DCM) and Precast Concrete

Blocks Installation as discussed in Section 5.3 of the Detailed Monitoring Programme on Finless Porpoise, however, MMEZ would also be implemented for precautionary purpose for DCM works.

6.3.1.3 A MMEZ with 250 m distance from the boundary of a work area shall be established during the above situation. A typical MMEZ is indicated in **Figure 6.4** for reference. The MMEZ serves as a monitoring approach to provide appropriate and immediate actions once finless porpoise or Chinese White Dolphin is sighted within the MMEZ. All MMEZ will be monitored by competent Marine Mammal Observers (MMOs) to be provided by the Environmental Team (ET) for the IWMF and trained by the Marine Mammal Monitoring Specialist of the ET who is independent from KSZHJV.

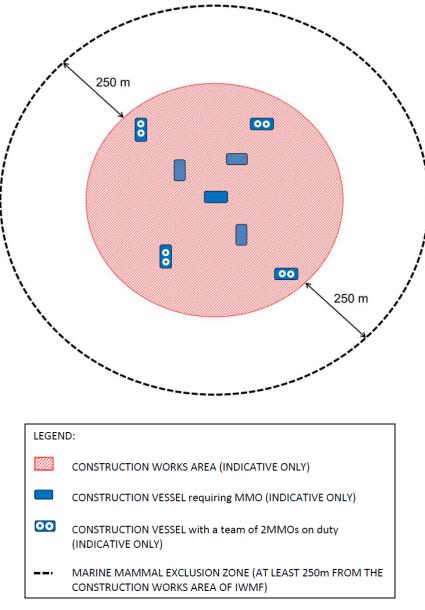


Figure 6.4 Illustration of Typical MMEZ

- 6.3.1.4 Prior to the commencement of construction activity, our MMOs shall ensure the boundary of a marine work area and setting up of the MMEZ for the work area and get access to the monitoring location on a barge or a lookout point where there is no obstructed views for monitoring the MMEZ during the construction activity. The MMEZ shall be scanned thoroughly by a MMO for any presence of marine mammal e.g. finless porpoise for an initial period of 30 minutes. Construction activity shall only be commenced after the MMO has confirmed that the MMEZ is clear of the marine mammal for the initial period of 30 minutes. The MMO shall then inform the construction superintendent through mobile phone or handheld transceivers to certify the commencement of construction activity. The MMEZ monitoring shall be carried on throughout the period for all active construction activities requiring implementation of MMEZ.
- 6.3.1.5 When any mammal marine, e.g. Finless Porpoise, is detected by the MMO within the MMEZ during construction, the MMO shall inform the construction superintendent immediately through mobile phone or handheld transceivers to cease construction activity within the MMEZ. Construction activity shall not be recommenced until the MMO confirms that the MMEZ is continuously clear of marine mammal for a period of 30 minutes. The MMO shall then inform the construction superintendent through mobile phone or handheld transceivers to certify the re-commencement of construction activity.
- 6.3.1.6 As there could be a number of Contractors working at the same time within a work area for the IWMF project, a full contact list of MMEZ monitoring team members of the ET and the relevant responsible construction superintendents of the Contractor at the site shall be prepared, updated regularly and circulated to all parties involved in the MMEZ monitoring. With a full contact list, our MMOs shall be able to find out the contacts of corresponding persons in case of marine mammal sighting within and near the MMEZ or emergent occurrence of any unpredictable impact on marine mammal.
- 6.3.1.7 If a marine mammal is still observed in close vicinity but outside the MMEZ, the MMO shall inform the construction superintendent about the presence of marine mammal. The MMO shall remain in position and closely observe the movement of the marine mammal as well as searching for the appearance of any other marine mammal within the MMEZ. No matter the marine mammal is observed within or in close vicinity but outside the MMEZ, the construction superintendent or relevant persons shall inform all vessel captains involved in construction activities around the MMEZ to pay special attention of the presence of the marine mammal in order to reduce chance of collision with them. In case of injury or live-stranded marine mammal being found within the MMEZ, the marine mammal observer shall immediately inform the construction superintendent to suspend construction activities within the works area and contact AFCD through "1823" marine mammal stranding hotline.
- 6.3.2 Marine mammal watching plan
- 6.3.2.1 Upon the completion of silt curtain installation/re-installation/relocation, the marine works would be conducted within an enclosed environment within the silt curtain. Subsequently, Visual Inspection of the Waters Surrounded by Silt Curtains (Section 2.1, MMWP) and Regular Inspection of Deployed Silt Curtain (Section 2.2, MMWP) inspection under Marine Mammal Watching Plan would be implemented (where applicable, Marine Mammal Exclusion Zone shall be conducted at the meantime).

- 6.3.2.2 Before commencement of dredging/sand blanket laying work at each designated area, a trained MMO shall check whether position frame silt curtains are ready, well prepared and operated without any obvious damage. Also, the MMO shall confirm the presence of the relevant frontline staff of the main contractor or its sub-contractors and engineers on board to ensure the effective communication, coordination and implementation of the response plan in relation to any incidents involving marine mammals within the waters surrounded by the position frame type silt curtains and the work areas. Also, there are lookout points at an elevated level on each barge, clear and safe access at the edges of the derrick lighter/ flag-top barge for inspection during dredging/sand blanket laying works, provision of sufficient lighting is required if working at night.
- 6.3.2.3 During the operation, the inspection will be conducted daily. The MMO will walk along the edge of derrick lighter (DL) and flag-top barge (FB) along the position frame silt curtain or proper location without obstacles where appropriate to inspect the position frame silt curtains are maintained in the correct positions with no obvious defects / entanglement and there is no observable muddy water passing through the position frame silt curtain system. Any floating refuse trapped by the silt curtain shall be removed as part of the regular inspection. For night inspection, spotlight will be used to provide sufficient brightness to assist the inspection in dark condition.
- For the re-deployment of the localized silt curtains (frame-type, cage-type or 6.3.2.4 enclosed floating-type silt curtains), MMO will conduct visual inspection to confirm that there is no presence of marine mammal within the localized silt curtains (frametype, cage-type or enclosed floating-type silt curtains). Visual inspection will be conducted every hour by MMO for confirming that there is no marine mammal observed in the surrounding area of the deployed silt curtain during re-deployment of localized silt curtains (frame-type, cage-type or enclosed floating-type silt curtains). The duration will be subject to various conditions, e.g. weather or angle of observation. The works can only commence after confirming that the surrounding waters of the localized silt curtains do not contain any marine mammal. Thereafter, frontline staff, i.e. foremen, site agent, superintendents and engineers will assist our MMO in implementing the plan from the active work fronts within the waters surrounded by the silt curtains throughout the work period. The MMO will conduct regular check to observe the presence of any marine mammal around the localized silt curtain or being trapped by the localized silt curtain daily. The MMOs will also check if the localized silt curtains are in correct positions.
- 6.3.2.5 The MMO shall fill up our Marine Mammal Sighting Record Sheet. After inspection, those records should be kept properly and submitted to the project team. In case there is any marine mammal being found, the MMO should carry out the response actions and communicate with relevant parties to stop and then resume work after the discovered marine mammal leaves. After lifting up and mobilization of silt curtain, the MMO will repeat the procedures of regular and visual inspection until the end of the construction works.
- 6.3.2.6 Each lookout point will have an unobstructed view to waters around the DL and FB. The MMO will move around the DL and FB to establish a clear and unobstructed view as much as they can without compromising the safety concern. When appropriate, the lookout point can be replaced by a proper location if unobstructed view can be assured.

- 6.3.2.7 Installation of caisson No.19 was completed on 18 March 2021, which the reclamation area had been totally enclosed by permanent structure. Floating type silt curtain at marine access was removed on 18 March 2021. No enclosed area shall be formed by deployment of silt curtain for the remaining works programme.
- 6.4 Results and Observations
- 6.4.1 Vessel-based Line-transect Survey
- 6.4.1.1 The monthly surveys were conducted on 5 and 8 December 2022. As this is the designated peak season (December May), two surveys were completed. A total of 79.9 km on effort (transects only) survey length was completed, 74.7% of which was conducted at Beaufort Sea State 2 or better (**Table 6.4**). No on-effort finless porpoise sighting was recorded.

Date	Area*	Beaufort	Effort (km)	Season	Vessel	Effort Type**
	SEL	1	1.1		SEAMAR HK	Р
5 December		2	18.5	WINTER		
5 December 2022		3	11.9			
		4	7.9			
		5	0.3			
8 December 2022	NH1	1	13.6	WINTER	SEAMAR HK	Р
		2	26.5			
2022		3	0.1			

 Table 6.4 Summary of Vessel-based Line-transect Survey Effort

As shown in Figure. 6.1

** P (from AFCD) denotes the ON EFFORT survey on the transect line, not the adjoining passages

- 6.4.1.2 A review of the long term AFCD marine mammal monitoring programme, the EIA and pre-construction baseline monitoring was conducted. Pre-construction baseline monitoring and the EIA were both conducted during the peak porpoise months, Feb-Apr 2018 and Dec 2008 May 2009, respectively, and could not be compared directly to December data. The AFCD long term monitoring data can be compared directly to December 2022 impact survey results. Impact monitoring data are also included for reference. The December 2018, 2019, 2020 & 2021 impact survey results could be compared directly to December 2018 to December 2018, 2019, 2020 & 2021 impact survey results. It was noted that the 6th, 18th, 30th & 42nd month of impact monitoring is December 2018, 2019, 2020 & 2021 respectively and these data were included.
- 6.4.1.3 A review of the Beaufort Sea State in October survey conditions between 2009 and 2017 (only data available from AFCD at times of writing; AFCD 2018¹; 2017²; 2016³; 2015⁴; 2014⁵; 2013⁶; 2012⁷; 2011⁸; 2010⁹) show that between 33.7% and 100% of survey effort has been conducted at Beaufort Sea State 2 or better in the past. For this project in December 2022, 74.7% of the survey was conducted at Beaufort Sea State 2 or better and, as such, survey conditions in December 2022 were higher than the average of previous AFCD long-term monitoring surveys
- 6.4.1.4 A review of the porpoise sightings in the survey area for December between 2009-2017 indicate that there are fluctuations between the number of sightings usually recorded. For all weather conditions, and for the nine years data available, zero (0) sighting was recorded in two years (2011 and 2012 conducted by AFCD), one (1) sighting was recorded in two years (2010 and 2015 conducted by AFCD), two (2) sightings were recorded in two years (2016 and 2017 conducted by AFCD), three (3)

sightings were recorded in one year (2013 conducted by AFCD), four (4) sightings were recorded in one year (2009 conducted by AFCD) and five (5) sightings were recorded in one year (2014 conducted by AFCD). The December average encounter rate is 0.03 sightings km⁻¹.For the first year of impact monitoring, three (3) on effort finless porpoise sightings (and two off effort sightings) were made.. For the second year of impact monitoring, two (2) sightings were recorded. For the fourth year of impact monitoring, no (0) sightings were recorded. For the fourth year of impact monitoring, one (1) sighting was recorded Effort varied considerably between years and the number of sightings per km ranged between 0 and 0.06 km⁻¹. There is no trend in encounter rate was recorded in 2009 and 2014 at 0.06 sightings km⁻¹ (4 and 5 sightings, respectively), with encounter rates of 0 sightings km⁻¹, in 2011 and 2012. For December 2022, an encounter rate of 0 is within the bounds of encounter rates noted for the long term marine mammal monitoring programme, prior to construction commencement

- 6.4.1.5 The impacts of the Project on marine mammals as predicted in the EIA were that construction activities would cause individuals to move away from the area. The month of December previously recorded between 0 5 porpoise sightings, before construction commenced. To increase the dataset for vessel-based surveys, acoustic towed array surveys have been conducted concomitantly with visual surveys and a separate report has been provided, showing trends in acoustic detections. As porpoise are easier to detect acoustically rather than visually, this larger data set provides more details of porpoise occurrence during vessel-based surveys. It is noted that there are low numbers of vessels in the area due to Covid-19 restrictions. However, marine construction works of other projects are ongoing in the area adjacent to this Project site and are, therefore, likely impacting porpoise presence and behaviour.
- 6.4.2 PAM and Land-based Theodolite Tracking
- 6.4.2.1 30 days of PAM surveys were started on 1 May 2019 and completed in the end of May 2019. Multiple PAM systems were deployed at three sites. The PAM system located at the IWMF was lost, however, an alternative data set had been identified. The PAM systems at the two control sites Tai A Chau and Pui O were recovered on 3 August 2019. A summary of marine mammal detections showed that porpoise were recorded every day of deployment at each site, but at varying frequencies. The detailed theodolite result was presented in 17th Monthly EM&A report (November 2019) while detailed PAM result was presented in 18th Monthly EM&A report (December 2019).
- 6.4.2.2 For the baseline study, the Detection Positive Minutes (DPM) for each site was 11,160 (Shek Kwu Chau), 16,089 (Tai A Chau) and 3645 (Pui O Wan), totalling 30,894 DPM across all three sites, compared to DPMs of 4740 (Shek Kwu Chau), 7725 (Tai A Chau) and 23,986 (Pui O Wan), totalling 36,451 DPM, for the impact phase study. As the impact phase study was longer than the baseline study, it is not appropriate to directly compare total counts of DPM. However, the DPM rate (the average number of detections per day) for each site can be more directly compared. During the baseline study, Shek Kwu Chau averaged 338.2 DPM per day compared with 124.8 DPM per day during the impact phase study. This showed a decrease in the daily average of porpoise detection at Shek Kwu Chau. During the baseline study, Tai A Chau averaged 487.6 DPM per day compared with 179.7 DPM per day, during the impact phase study. This showed a decrease in the daily average of porpoise detection at Shek Kwu Chau. During the impact phase study. This showed a decrease of porpoise detection at Tai A Chau. During the baseline study, Pui O Wan averaged 98.5 DPM per day compared with 557.8 DPM per day during the impact phase

study. This showed a significant increase in the daily average of porpoise detections at Pui O Wan.

- 6.4.2.3 Overall, the PAM study showed that porpoise continue to consistently utilise the Shek Kwu Chau habitat immediately adjacent to the IWMF construction activities, although to a lesser degree than that prior to construction activities. In addition, the Pui O Wan site, which is 2.5 km away from the IWMF construction area, was also consistently utilised during the impact phase PAM study. A continued assessment of fine scale habitat use, particularly through PAM which yielded large quantities of data, would allow a more comprehensive assessment of the EIA predictions.
- 6.4.2.4 Theodolite surveys were completed in May 2019. In total, 34 days of theodolite tracking were completed between February and May 2019, comprising 167 hours and 49 minutes of observation. No Chinese white dolphin was observed and only one finless was recorded. The finless porpoise encounter rate was calculated as 0.006 finless porpoise per hour, in all weather conditions.
- 6.4.2.5 A total of 2620 vessels of ten different types were observed and tracked within or in the proximity of the IWMF construction site. These comprised fishing boats (236), speed boats (29), container boats (155), government boats (22), high speed ferries (53), others (13) and IWMF-Related construction platforms (974), tug boats (240), transportation boats (363), construction boats (531) and approximately 8 buoys were present marking the site boundary.
- 6.4.2.6 The baseline theodolite tracking was conducted immediately prior to and during the site preparation activities of the site. The baseline data records a decrease in porpoise sightings as site preparation activities commenced and notes that the decrease was most likely due to the onset of site preparation activities. The impact theodolite tracking conducted for this study records a marked increase in the number of Project related vessels and platforms and, in agreement with baseline conclusions, shows a concomitant decrease in finless porpoise sightings.
- 6.4.3 Specific Mitigation Measures
- 6.4.3.1 Trainings for the MMO were provided by the ET prior to the monitoring of the Marine Mammal Exclusion Zone (MMEZ) for installation/ re-installation/ relocation process of silt curtains, with a cumulative total of 98 individuals being trained and the training records kept by the ET.

#### 6.4.5 References

- 1. Agriculture, Fisheries and Conservation Department (AFCD) 2018. *Annual Marine Mammal Monitoring Programme April 2017-March 2018*) The Agriculture, Fisheries and Conservation Department, Government of the Hong Kong SAR. <u>http://www.afcd.gov.hk/english/conservation/con_mar_chi/con_mar_chi_chi_html</u>
- 2. Agriculture, Fisheries and Conservation Department (AFCD) 2017. *Annual Marine Mammal Monitoring Programme April 2016-March 2017*) The Agriculture, Fisheries and Conservation Department, Government of the Hong Kong SAR. http://www.afcd.gov.hk/english/conservation/con_mar_chi/con_mar_chi_chi.html
- 3. Agriculture, Fisheries and Conservation Department (AFCD) 2016. *Annual Marine Mammal Monitoring Programme April 2015-March 2016*) The Agriculture, Fisheries and Conservation Department, Government of the Hong Kong SAR. http://www.afcd.gov.hk/english/conservation/con_mar_chi/con_mar_chi_chi_html
- 4. Agriculture, Fisheries and Conservation Department (AFCD) 2015. Annual Marine Mammal Monitoring Programme April 2014-March 2015) The Agriculture, Fisheries and Conservation Department, Government of the Hong Kong SAR. http://www.afcd.gov.hk/english/conservation/con_mar_chi/con_mar_chi/con_mar_chi_chi.html
- 5. Agriculture, Fisheries and Conservation Department (AFCD) 2014. Annual Marine Mammal Monitoring Programme April 2013-March 2014) The Agriculture, Fisheries and Conservation Department, Government of the Hong Kong SAR. http://www.afcd.gov.hk/english/conservation/con_mar_chi/con_mar_chi_chi i/con_mar_chi_chi.html
- Agriculture, Fisheries and Conservation Department (AFCD) 2013. Annual Marine Mammal Monitoring Programme April 2012-March 2013) The Agriculture, Fisheries and Conservation Department, Government of the Hong Kong SAR. <u>http://www.afcd.gov.hk/english/conservation/con_mar_chi/con_mar_chi chi i/con_mar_chi_chi.html</u>
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- 8. Agriculture, Fisheries and Conservation Department (AFCD) 2011. Annual Marine Mammal Monitoring Programme April 2010-March 2011) The Agriculture, Fisheries and Conservation Department, Government of the Hong Kong SAR. http://www.afcd.gov.hk/english/conservation/con_mar_chi/con_mar_chi/con_mar_chi_ch i/con_mar_chi_chi.html
- Agriculture, Fisheries and Conservation Department (AFCD) 2010. Annual Marine Mammal Monitoring Programme April 2009-March 2010) The Agriculture, Fisheries and Conservation Department, Government of the Hong Kong SAR. <u>http://www.afcd.gov.hk/english/conservation/con_mar_chi/con_mar_chi_chi.html</u>

## 7. WHITE-BELLIED SEA EAGLE

- 7.1 Monitoring Requirement
- 7.1.1 On Shek Kwu Chau Island, a nest of WBSE is located about 60 m above ground within a hillside shrubland habitat, 130 m in-land from shore, about 550 m away from the proposed reclaimed land, with no human access. 3 phases monitoring programme will be comprised of pre-construction phase, construction phase and operation phase.
- 7.1.2 The Pre-Construction WBSE monitoring was started on 30 January 2018 and the location of WBSE nest was confirmed on 21 February 2018 and it is located at the western part of SKC Island (Figure 7.1). Two adults and two chicks were also recorded on 5th March 2018 survey till the end of the Pre-construction monitoring on 15th May 2018. Construction Phase monitoring were carried out followed by the commencement of the Construction Phase on 28th June 2018.
- 7.2 WBSE Monitoring Parameters, Time, Frequency
- 7.2.1 The objective of the construction phase monitoring should be to verify the utilisation of the area by WBSE, their responses to construction disturbance, as well as the effectiveness of the proposed mitigation measures. Throughout the construction phase, field surveys should be conducted twice per month during their core breeding season (from December to May), and once per month outside their core breeding season (from June to November). The monitoring frequency should be increased to weekly during the incubation period of each year. In order to confirm their foraging ground near the construction site, it is necessary to conduct daily monitoring during the first week of nestling period in each year.
- 7.2.2 Since the location of the WBSE nest was located at the southwest of SKC within the hillside shrubland, it is impossible to observe the eggs during incubation period. Therefore, monitoring with increased frequency during incubation period will be continued until chick was seen in the nest. Daily monitoring of 7-day consecutive monitoring will be carried out once any chick is recorded during the monitoring day. The monitoring schedule during the reporting period is provided in **Appendix C**.
- 7.3 Monitoring Location
- 7.3.1 Since there are no suitable land footings along the coast of SKC, only boat surveys were conducted. On Shek Kwu Chau Island, a nest of WBSE is located about 60 m above ground within a hillside shrubland habitat, 130 m in-land from shore, about 550 m away from the proposed reclaimed land, with no human access.
- 7.4 Monitoring Methodology
- 7.4.1 Information to be collected included feeding, perching/roosting, preening, soaring, flying, nesting and territorial guarding and the time spent on each activity. The responses and reactions to any disturbance to the WBSEs were also recorded and examined in conjunction with the construction noise and/or other events in the vicinity. Other disturbances such as weather condition, or invasion by other fauna species were also recorded.
- 7.4.2 Binocular, scope, camera, lens and GPS device used are summarized as **Table 7.1** below:

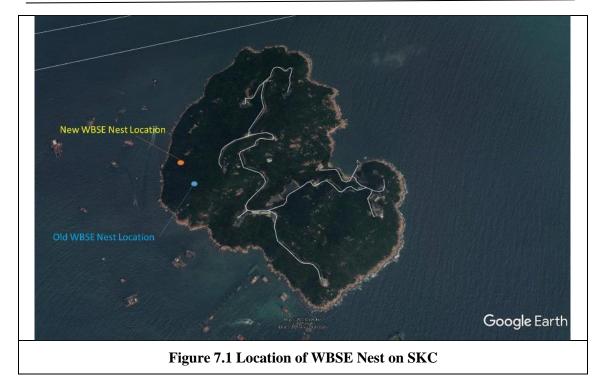
Equipment	Quantity
Swarovski EL 8.5 x 42 Binocular	1
Swarovski EL Range 8 x 42 Binocular	1
Swarovski ATX 25-60 x 85 Spotting Scope	1
Canon 1Dx Mark II Camera	1
Canon EF300mm F2.8 Lens with Canon 2x Teleconverter	1
Canon PowerShot G7X Camera	1
Garmin GPSMAP 64S	1

#### Table 7.1 List of Equipment Used during Construction Phase Monitoring

- 7.4.3 If event such as absence of White-bellied Sea Eagle during a whole day of monitoring was found during WBSE monitoring, the actions in accordance with the Event and Action Plan should be carried out according to **Appendix M.**
- 7.5 Results and Observations
- 7.5.1 To verify the utilization of the area by WBSE, their responses to construction disturbance, as well as the effectiveness of the proposed mitigation measures. Since there is no landing point long the western part of SKC, boat survey were used for the monitoring survey. The WBSE, monitoring survey was carried out in the morning. The weather condition of monitoring survey was shown in **Table 7.2**.

Date	Condition	Temperature (°C)
15 December 2022	<ul><li>North wind force 5</li><li>Sunny</li></ul>	21
29 December 2022	<ul><li>Northeast wind force 5 to 6</li><li>Sunny</li></ul>	19

- 7.5.2 During the monitoring survey on 15 December 2022, two adult WBSEs were recorded near the new nest. For monitoring survey on 29 December 2022, two adult WBSEs were recorded staying the new nest (**Figure 7.1**). No abnormal behaviors of the adults were recorded during the two monitoring events. Incubation activity was recorded during the monitoring on 29 December 2022. The juvenile recorded in 2022 has not been observed since monitoring event in September 2022, it is suggested that the juvenile left the nest at SKC and nesting in other area outside our monitoring boundary.
- 7.5.3 All marine works during the monitoring period did not show any effect to the WBSE.
- 7.5.4 No disturbances from anthropogenic activities on the island were recorded during the monitoring survey. However, fishing boats were observed moving close to the shore. No invasion of other fauna species was recorded.
- 7.5.5 There was no sign of using the construction site as a foraging ground.
- 7.5.6 As the adult was undergoing incubation period during the breeding season, weekly construction phase monitoring will be started in January 2023 during the breeding season (between December to May) in order to monitor the utilization of the area by WBSE and their responses to construction disturbance.



7.5.7 Photo record of WBSE from the survey in this reporting month is shown below:



Figure 7.2 Photo Records of WBSE on SKC during the Reporting Period

## 8. SUMMARY OF MONITORING EXCEEDANCE, COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTIONS

8.1 The Environmental Complaint Handling Procedure is shown in Figure 8.1.

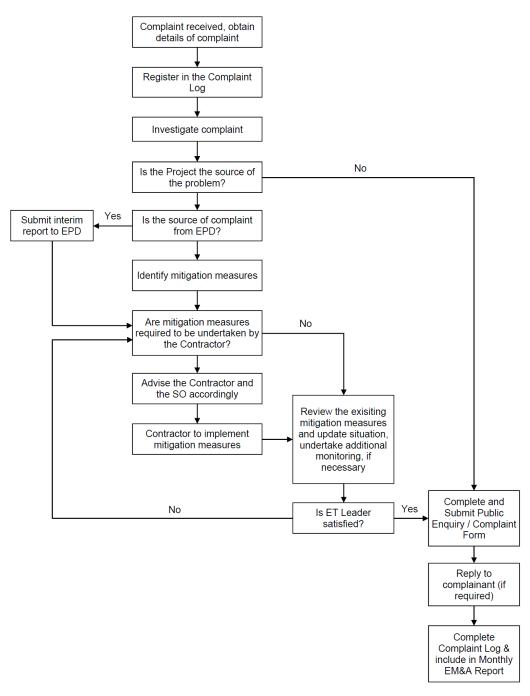


Figure 8.1 Environmental Complaint Handling Procedures

Date	<b>B</b> 1	B2	<b>B3</b>	<b>B</b> 4	CR1	CR2	F1A	H1	S1	S2A	<b>S</b> 3	M1
02-12-2022												
05-12-2022												
07-12-2022												
09-12-2022												
11-12-2022												
13-12-2022												
16-12-2022												
19-12-2022												
21-12-2022												
23-12-2022												
26-12-2022												
28-12-2022												
30-12-2022												
No. of SS Exceedances	3	3	4	3	0	3	1	3	0	0	0	2

## Table 8.1 Summary of SS Compliance Status at Impact Stations (Mid-Ebb Tide)

Note 1: Detailed results are presented in Appendix D

 Legend:
No exceedance of Action Level and Limit Level
Exceedance of Action Level recorded at monitoring station located downstream of the Project based
on dominant tidal flow
Exceedance of Action Level recorded at monitoring station located upstream/unrelated stream
(neither upstream nor downstream, far away) of the Project based on dominant tidal flow
Exceedance of Limit Level recorded at monitoring station located downstream of the Project based
on dominant tidal flow
Exceedance of Limit Level recorded at monitoring station located upstream/unrelated stream of the
Project based on dominant tidal flow
Upstream/unrelated stream station with respect to IWMF Project during the respective tide based on
dominant tidal flow
Downstream station with respect to IWMF Project during the respective tide based on dominant
tidal flow/station within the Project site
NA for measurement
Cancelled due to incident or adverse weather

Date	<b>B</b> 1	B2	<b>B</b> 3	<b>B4</b>	CR1	CR2	F1A	H1	<b>S</b> 1	S2A	<b>S</b> 3	M1
02-12-2022												
05-12-2022												
07-12-2022												
09-12-2022												
11-12-2022												
13-12-2022												
16-12-2022												
19-12-2022												
21-12-2022												
23-12-2022												
26-12-2022												
28-12-2022												
30-12-2022												
No. of SS Exceedances	0	0	1	0	2	1	0	0	0	0	0	1

 Table 8.2 Summary of SS Compliance Status at Impact Stations (Mid-Flood Tide)

Note 1: Detailed results are presented in Appendix D

Legend:

L	
	No exceedance of Action Level and Limit Level
	Exceedance of Action Level recorded at monitoring station located downstream of the Project
	based on dominant tidal flow
	Exceedance of Action Level recorded at monitoring station located upstream/unrelated stream
	(neither upstream nor downstream, far away) of the Project based on dominant tidal flow
	Exceedance of Limit Level recorded at monitoring station located downstream of the Project
	based on dominant tidal flow
	Exceedance of Limit Level recorded at monitoring station located upstream/unrelated stream of
	the Project based on dominant tidal flow
	Upstream/unrelated stream station with respect to IWMF Project during the respective tide based
	on dominant tidal flow
	Downstream station with respect to IWMF Project during the respective tide based on dominant
	tidal flow/station within the Project site
	NA for measurement
	Cancelled due to incident or adverse weather

8.2 During the reporting period, fourteen (14) of general water quality monitoring results of SS obtained during the reporting period had exceeded the Action Level and thirteen (13) of general water quality monitoring results of SS obtained during the reporting period had exceeded the Limit Level. Investigations were carried out for each exceedance during the reporting period.

8.3 During the water quality monitoring for ebb tide and flood tide on 2 and 5 December 2022, the location for monitoring station M1 was temporarily changed to the north of Cheung Chau (as shown on Figure 2.1) due to strong swell brought by monsoon. The coordinate of temporary monitoring location for M1 on 2 and 5 December 2022 was E809305, N821294.

8.4 No project-related Action Level or Limit Level exceedance of regular water quality monitoring was recorded from the 1 December 2022 to 31 December 2022 as shown in **Appendix N** and no exceedance of the Action and Limit Levels of the regular WBSE monitoring was recorded during the reporting period.

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

8.6 Statistics on complaints, notifications of summons and successful prosecutions are summarized in Appendix O.

## 9. EM&A SITE INSPECTION

9.1 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 06, 13, 20 and 28 December 2022 at the site portions listed in **Table 9.1** below.

Date	Inspected Site Portion	Time
06 December 2022	Portion 1, 1A & 1B (near SKC)	10:30 AM - 11:20 AM
13 December 2022	Portion 1, 1A & 1B (near SKC)	10:40 AM - 11:30 AM
20 December 2022	Portion 1, 1A & 1B (near SKC)	10:30 AM - 11:20 AM
28 December 2022	Portion 1, 1A & 1B (near SKC)	10:30 AM - 11:20 AM

#### **Table 9.1 Site Inspection Record**

9.2 One joint site inspection with IEC was carried out on 13 December 2022.

9.3 Environmental deficiencies were observed during weekly site inspection. Key observations during the site inspections of the reporting period are summarized in **Table 9.2**.

 Table 9.2 Site Observations

Date	Environmental Observations	Follow-up Status
06 December 2022 (Site inspection)	Observation(s) and Recommendation(s) Nil	Nil
13 December 2022 (Site inspection)	<ol> <li>Observation(s) and Recommendation(s)</li> <li>At work area of 香港岩土, soil was accumulated inside the drip tray, oil stain was observed on soil, contaminated soil should be treated as chemical waste.</li> <li>At area VSW3, geotextile should be well deployed along the edge of</li> </ol>	<ol> <li>At work area of 香港岩土, contaminated soil and oil stain had been removed and treated as chemical waste.</li> <li>At area VSW3, geotextile had been well deployed</li> </ol>
20 December 2022 (Site inspection)	seawall. Observation(s) and Recommendation(s) 1. General waste should be stored inside the enclosed rubbish bin and removed from site regularly.	<ol> <li>General waste had been inside the enclosed rubbish bin and removed from site regularly.</li> </ol>
28 December 2022 (Site inspection)	Observation(s) and Recommendation(s) Nil	Nil

9.4 The Contractor had rectified all the observations identified during environmental site inspections in the reporting period.

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

# **10. FUTURE KEY ISSUES**

10.1 Works to be undertaken in the next reporting month are:

- Reclamation Area:
  - Reclamation works
  - Installation of Instrumentation
  - Site Investigation works for foundation
  - Foundation works (including Driven H Pile and Socketed H Pile)
  - Pile cap construction
  - Structural steel work
- Seawall Portion:
  - Installation of Chinese Pod
  - Caisson extension works, from +3mPD to +6mPD, at Seawall A and B
  - Construction of wave wall along the vertical seawall

10.2 Potential environmental impacts arising from the above construction activities are mainly associated with water quality, construction noise, waste management and ecology.

10.3 The key environmental mitigation measures for the Project in the coming reporting period expected to be associated with the construction activities include:

- Reduction of noise from equipment and machinery on-site;
- Sorting, recycling, storage and disposal of general refuse and construction waste;
- Management of chemicals and avoidance of oil spillage on-site, especially under heavy rains and adverse weather;
- Dust control of exposed soil surface and stockpile of dusty material at reclaimed area;
- Dust suppression measures for exposed earth surface and stockpile of dusty material;
- Site runoff control measure during construction works; and
- Dust and noise control of foundation works.

10.4 The tentative schedule of regular construction noise, water quality and ecology monitoring in the next reporting period is presented in **Appendix P**. The regular construction noise, water quality and ecology monitoring will be conducted at the same monitoring locations in the next reporting period.

# **11.** CONCLUSION AND RECOMMENDATIONS

11.1 This 54th monthly Environmental Monitoring and Audit (EM&A) Report presents the EM&A works undertaken during the period from 1 December to 31 December 2022, in accordance with the Updated EM&A Manual and the requirement under EP-429/2012/A and FEP-01/429/2012/A.

11.2 Construction noise, water quality, construction waste, marine mammal, WBSE and coral monitoring were carried out in the reporting period. No project-related exceedance of the Action and Limit Level was recorded from 1 December to 31 December 2022.

11.3 Weekly environmental site inspections were conducted during the reporting period. Environmental deficiencies were observed during site inspection and were rectified.

11.4 According to the environmental site inspections performed in the reporting month, the Contractor was reminded to pay attention on the proper storage of the chemicals for preventing accidental spillage of chemicals, deployment of geotextile for preventing site runoff and proper storage of general waste to maintain the site tidiness.

11.5 No environmental complaint was received in the reporting period.

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

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

Appendix A Master Programme

古 賀 西 格 新 - 紙 華川 KEPPEL SEGILIES - ZHEN HUA70	Activity Name	Original Duration	Remaining	Activity 9	Current Start	Current Finish	Late Start	Late Finish	Total Float M60 Remarks	rated Waste Managemer
			Duration	Complete						Nov 60
	and Construction Works WP6F-M60	<b>3026</b> 3026	1192 1003		22-Nov-17 A		02-Oct-22 11-Nov-22	05-Jan-26 05-Jan-26	-59 -59	
Key Dates		2843	403		22-Nov-17 A		11-Nov-22	03-Sep-25	-33	
Design and Construction		2787	347		22-Nov-17 A		11-Nov-22		0	
01-1000	Contract Award/Date of Acceptance of Tender	0	0	100%	22-Nov-17 A		11-Nov-22			
01-1010	Date of Commencement of the Design and the Works	0	0		15-Dec-17 A		11-Nov-22			
01-1015(3)(M12) 01-1020	Original Substantial Completion of the Works Extended Substantial Completion of The Works	0	0	0%		27-Jul-24* 09-Jul-25*		27-Jul-24 09-Jul-25	0	
Extension of Time Grant		347	347		27-Jul-24	09-Jul-25	27-Jul-24	09-Jul-25	0	
01-1015-1(3)(M12)	Extension of time granted (Claim No.1 to No.72) *Claim No.9 excluded	347	347		27-Jul-24	09-Jul-25	27-Jul-24	09-Jul-25	0	
Operation Phase		56	56		10-Jul-25	03-Sep-25		03-Sep-25	0	
01-1030	Commencement of Operation	0	0	0%	10-Jul-25	02 Son 25*	10-Jul-25	02 5 00 25	0	
01-1230 Planned Completion I	Issue Certificate of Completion of the Works (56 days after Substantial Completion)	887	887	0%		03-Sep-25* 05-Mar-26	30-Sep-23	03-Sep-25 05-Jan-26	-59	
01-1030(5a)	Grid Connection Agreement (GCA)	0	0	0%	· · ·	31-Oct-23*	30-3ep-23	30-Oct-23	0	
01-1040	Incoming Power Energization to IW MF Substation	0	0	0%		23-Jan-25		09-Jul-25	168	
01-1050	Export Power to Grid	0	0	0%	,	31-Oct-24*		31-Oct-24	0	
01-1060	Issuance of FS Certificate	0	0	0%		05-Jan-25		08-Jan-25	3	
01-1070	Completion of Civil Provision for Transmission	0	0	0%		30-Sep-23*		30-Sep-23	0	
01-1080	Commencement of C1.3.4.11 System Commissioning Test	0	0		06-Mar-25	Of Max OF	09-Jan-25	Of Jan OF	-56	
01-1090 01-1100	Completion of C1.3.4.11 System Commission Test Physical Completion of 90 Days Plant Commissioning Test Works	0	0	0%		31-Mar-25 16-Aug-25		31-Jan-25 18-Jun-25	-59 -59	
01-1110(3)(M15)	Planned Substantial Completion of the Works	0	0	0%		06-Sep-25		09-Jul-25	-59	
01-1110-1(5a)	Completion of 180 Days for Installation, T&C of CCTV System and Onshore Power System at Portion 2	0	0	0%		05-Mar-26*		05-Jan-26	-59	
Dates of Site Pocessio		2764	764		15-Dec-17 A	10-Jul-25	11-Nov-22	10-Jul-25	0	
01-1120	Possession of Portion 1	0	0	100%	,	15-Dec-17 A		11-Nov-22		
01-1130	Possession of Portion 1A	0	0	100%		15-Dec-17 A		11-Nov-22		
01-1140	Possession of Portion 1B	0	0	100%		15-Dec-17 A	10.1.1.05	11-Nov-22		
01-1150	Possession of Portion 2	0	0	0%	10-Jul-25	00 100 00*	10-Jul-25	00 lun 00	0	
01-1160 01-1170	Possession of Portion 3 Possession of Portion 4	0	0	0%		06-Jun-23* 06-Jun-23*		06-Jun-23 06-Jun-23	0	
01-1180	Possession of Portion 5	0	0	0%		06-Jun-23*		06-Jun-23	0	
01-1190	Possession of Portion 6	0	0		20-Oct-24*		09-Jan-25		81	
01-1200	Possession of Portion 7	0	0	100%	,	05-Jan-18 A		09-Jul-25		
01-1210	Possession of Portion 7A	0	0	100%	•	07-Dec-18 A		09-Jul-25		
01-1210(5a)	Possession of Portion 8	0	0		29-Apr-20 A		10-Jul-25			
01-1210-1(M55)	Possession of Portion 9	0	0	100%	10-Jun-22 A		10-Jul-25	40.1.05	700	
Contract Preliminar		56	40		14-Jun-22 A		02-Dec-24		733	
Employer's Accommo	dations Establishment of Employer's On Island Temporary Accommodation	56 56	40 40	00 E70/	14-Jun-22 A		02-Dec-24	10-Jan-25 10-Jan-25	733 733	
Licence/Permit App		2120	916	20.37 /	07-Mar-19 A		25-Oct-22	09-Jul-25	37	
License/Permit for Co		2120	916		07-Mar-19 A		23-Dec-22		37	
03-1360(2)	CNP for 24Hrs	2120	916	56.79%	07-Mar-19 A		06-Jan-23	09-Jul-25	37	
03-1370_1(M34)	Landscape and Visual Plan	180	180		30-Nov-22			20-Jun-23	23	30-Nov-22
Fire Services Installat	ions (FSI) Certificatie	0	0		29-Dec-22	29-Dec-22	29-Dec-22	29-Dec-22	0	
Fire Services Installation		0	0			29-Dec-22	29-Dec-22			
03-1555-1(5a)	Approval of General Building Plans and FSI Provision Design Submission	0	0	0%		29-Dec-22	30-Dec-22	29-Dec-22	0	
Air Pollution Control ( 03-1740(3)	(Specified Processes) License Document preparation for SP License Application (upon consent of relevent DDA designs)	60 60	60 60	0%	30-Dec-22	27-Feb-23		27-Feb-23 27-Feb-23	0	
Boilers and Pressure		302	60 60	0%	29-Mar-22 A		25-Oct-22	27-Feb-23	173	
03-1860(3)	Employment of Registered Examiner	90	30	66.67%	31-May-22		21-Jun-23	20-Jul-23	203	
03-1870(3)	Prepare boiler fabrication inspection plan	60	30		31-May-22		21-Jun-23	20-Jul-23	203	
03-1890(3)	Completion of Boiler off-site fabrication	180	30	83.33%	29-Mar-22 A	29-Dec-22	25-Oct-22	23-Nov-22	-36	
03-1900(3)	Completion of Boiler off-site inspection before delivery	60	60	0%	30-Nov-22	28-Jan-23	25-Oct-22	23-Dec-22	-36	30-Nov-22
General Submission	1S	1108	60		31-May-22	28-Jan-23	01-Nov-22	30-Dec-22	-29	
Contractor's Plans Su		1108	60		31-May-22		01-Nov-22		-29	
BEAM Plus Assessment		1108	60				01-Nov-22			
04-1500-1(1)	Provisional Assessment	1108 1660	60 227	94.58%	05-Sep-18 A		_	30-Dec-22 26-Dec-24	-29 531	
Design Submission General Building Plan		517	30		03-Mar-21 A			26-Jun-23	179	
General Building Plan	Process Building & Wastewater Treatment Plant	135	0	100%	03-Mar-21 A 03-Jun-21 A			29-Dec-22	30	I 30-
04-1610(M42)	Turbin Hall Building	135	0		03-Mar-21 A			29-Dec-22	30	30
04-1620(M42)	Compressor & CCCW Building	135	0		03-Mar-21 A			29-Dec-22	30	I 30-
04-1630(M42)	Chimney	135	0	100%	03-Mar-21 A	30-Nov-22	29-Dec-22	29-Dec-22	30	30-
04-1640(M42)	Mechanical Treatment Plant & Water Treatment Plant	135	0	100%	03-Jun-21 A	30-Nov-22	29-Dec-22	29-Dec-22	30	30-

3-Month F	<b>lolling</b>	Programme	(November	2022)
Page 1 of 17				

Remaining Work Actual Work

Critical Milestone

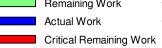
Critical Remaining Work

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ct No. EP/SF Facilities, Pl	2/66/12 hase 1	f	環境保 Environm	護署 ental Protectio	n Department
Dec		Jan	2023	Feb	
61		62		63	
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	08-J	an-23, Esta	ablishme	nt of Employe	er's On Island
	· · · · · · · · · · · · · · · · · · ·				
	·				
•	Approval of Ge	neral Build	ing Plans	and FSI Pro	vision Desic
·····					
30-Dec-22	;				
	29-Dec-22, Em	plovment	of Registe	ered Examine	er. Employm
	29-Dec-22, Pre				
	Completion of I				
				Jan-23, Comp	
			Prov	visional Asse	essment. 28-
					, 20
v-22, Process Building & v-22, Turbin Hall Buildin	g, Turbin Hall B	Freatment F Building, 30	Plant, Pro -Nov-22	cess Buildin	g & Wastewa
v-22, Compressor & CC				W Building, 3	30-Nov-22
v-22, Chimney, Chimney					
v-22, Mechanical Treatm		ater Treatm	ent Plan	t, Mechanical	Treatment P
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	Activity Name	Original Duration	Remaining Duration	Activity Comple	% Current Start ete	Current Finish	Late Start	Late Finish	Total Float Me	Nov	2	2022 D	Dec	Jan	2023 Feb
04-1650(M42)	Reception Pavilion	135	0	100%	% 03-Jun-21 A	30-Nov-22	29-Dec-22	29-Dec-22	30	60		6 30-Nov-22, Be	aception Pavilion: R	62 Reception Pavilion, 30-Nov	63 v-22
04-1660(M42)	Administration Building and Viewing Gallery	135	0		% 03-Jun-21 A			29-Dec-22	30					ng and Viewing Gallery, Ac	
04-1670(M42)	Elevated Drive Way and Associated Structures	135	0	100%	% 03-Mar-21 A	30-Nov-22	29-Dec-22	29-Dec-22	30					and Associated Structures,	
4-1680(M42)	IW MF Substation	135	0	100%	% 03-Mar-21 A	30-Nov-22	29-Dec-22	29-Dec-22	30			l 30-Nov-22, IW	MF Substation, W	/MF Substation, 30-Nov-22	2
4-1690(M46)	ACC Equipment Structure	30	30	0%	% 30-Nov-22	29-Dec-22	30-Nov-22	29-Dec-22	0	3	80-Nov-22			-Dec-22, ACC Equipment	
4-1730	Weighbridge	135	22		% 22-Apr-22 A			26-Jun-23	187				21-Dec-22,	, Weighbridge, Weighbridg	ge, 21-Dec-22
P Design Package		1562					03-Nov-22		459						
P Ground Treatment, 5-2970	Reclamation, Seawall, Breakwater, Berth (2.2) Onshore crane Facility (2.2.11)	<u>    424</u> 90			31-May-21 % 11-Apr-22 A		03-Nov-22 03-Nov-22	18-Oct-23	263 -27				ane Facility (2.2.11)	), 02-Dec-22, 02-Dec-22, 0	Onshore crane Eacili
5-2980	Onshore vessel power supply system (2.2.12)	135			% 31-May-21		20-Aug-23		263				ne r acinty (2.2. 11),		28-Jan-23, Onsho
P Incineration Plant		1517			-	28-Jan-23	-		570						
	gs and Fire Saftey Strategy (2.3.00)	136			31-Jul-21 A			29-Nov-22	0						
05-1210	Process Building & Wastewater Treatment Plant (2.3.00.01 & 2.5.00.01)	105			% 31-Aug-21 A		29-Nov-22		0					Treatment Plant (2.3.00.01	
05-3020	Site Master Layout Plan and Plant Layout (2.1.06)	105			% 31-Jul-21 A		29-Nov-22		0 398			Site Master La	yout Plan and Plan	nt Layout (2.1.06), 30-Nov-2	22, 30-Nov-22, Site
peration Managemen	t System (2.3.03.04) Design of the Air Quality Monitoring Stations (2.9.01)	<u> </u>			14-Feb-22 A % 01-Jun-22 A		22-Feb-23 22-Feb-23	15-Feb-24 07-Apr-23	398 84					13-Jan-23. D	esign of the Air Qua
05-3840-1(M22)	Automatic Traffic Control System (ATCS) (2.10.06.12)	90			% 14-Feb-22 A		02-Feb-24		429			· · · · · · · · · · · · · · · · · · ·	13-Dec-22, Autom a	atic Traffic Control System	(ATCS) (2.10.06.12
uilding services desi	gn (excluding fire services installation design) (2.3.06)	1517	60		04-Dec-18 A	28-Jan-23	29-Dec-22	20-Aug-24	570						
05-1550	Electrical Services and Lighting	150		25%	% 02-Jan-19 A	30-Nov-22	29-Dec-22		30			l 30-Nov-22, Ele	ectrical Services ar	nd Lighting, Electrical Ser	
5-1560	MVAC (6 Packages)	105	60		% 02-Jan-19 A		,	28-Jul-23	181						28-Jan-23, MVA
5-1570	Odour Control	135	60		% 04-Dec-18 A			28-Jul-23	181						28-Jan-23, Odour
15-1580 15-1590	Plumbing (7 Packages) Drainage (7 Packages)	210	60		% 31-Jan-19A % 31-Jan-19A		12-Jan-24	11-Mar-24	408 408						28-Jan-23, Plum
15-1600	ELV (7 Packages)	135	60		% 28-Feb-19 A		12-Jan-24 29-Dec-22	11-Mar-24 29-Dec-22	408 30			30-Nov-22 EI	V (7 Packages) E		28-Jan-23, Drain
05-1770	Vehicle & Container Wash System	60	60		% 30-Nov-22			23-Apr-23	85	3	80-Nov-22			LV (7 Packages), 30-Nov-	28-Jan-23. Vehic
05-1770-1(M20)	Water Cannon System	135			% 31-Aug-19 A			20-Aug-24	600				29-	-Dec-22, Water Cannon Sy	ys tem, Water Cann
P Fire services install	ation design (2.3.05)	270	30		31-Oct-19 A	29-Dec-22	10-Apr-23	09-May-23	131						
eception Pavilion (2.		270			31-Oct-19 A			09-May-23	131						
05-5460(M22)	Fire Systems (2.3.05.06.01)	270			% 31-Oct-19 A		· ·	09-May-23	131					-Dec-22, Fire Systems (2.)	
15-5470-1(M22)	FS schematics (2.3.05.06.03) ent Plant Building (2.4)	135			% 31-Oct-19 A	29-Dec-22 27-Feb-23	•	09-May-23	131 378				¥9-	-Dec-22, FS schematics (	2.3.05.06.03), FS s
	gn (excluding fire services installation design) (2.4.06)	181				27-Feb-23		11-Mar-24	378						
05-1700	LV and Emergency Power Distribution Design	135	60	5%	% 18-Jan-22 A	28-Jan-23	12-Jan-24	11-Mar-24	408						] 28-Jan-23, LV an
)5-1720	Odour Control	90	90	0%	% 30-Nov-22	27-Feb-23	21-Feb-23	21-May-23	83	3	80-Nov-22				
05-1740	Drainage	90			% 10-Jan-21 A			09-Apr-23	121			09-D	ec-22, Drainage, D	Drainage, 09-Dec-22	
P Wastewater Treatme	ent Plant (2.5) gn (excluding fire services installation design) (2.5.06)	<u>1170</u> 1170			31-Jan-19 A 31-Jan-19 A		02-Apr-23 02-Apr-23	16-Jan-24 16-Jan-24	353 353						
05-1830	LV and Emergency Power Distribution Design (2.5.06.01)	135			% 31-Jan-19 A			16-Jan-24	353				·····.		28-Jan-23, LV an
5-1840	MVAC (2.5.06.02)	135	60		% 31-Jan-19 A		17-Apr-23	15-Jun-23	138						28-Jan-23, MVA
5-1850	Odour Control (2.5.06.03)	105	60	5%	% 31-Dec-21 A	28-Jan-23	23-Apr-23	21-Jun-23	144						28-Jan-23, Odour
5-1860	Plumbing (2.5.06.04)	135	60	25%	% 31-Jan-19 A	28-Jan-23	17-Apr-23	15-Jun-23	138						28-Jan-23, Plum
5-1870	Drainage (2.5.06.05)	135	60		% 31-Jan-19 A		02-Apr-23	31-May-23	123						28-Jan-23, Drain
5-1880	ELV (2.5.06.06)	135			% 01-Feb-19A		22-May-23		173						28-Jan-23, ELV (
Water Treatment Pla	ant Building (2.6) gn (excluding fire services installation design) (2.6.06)	135 135			30-Apr-19A	28-Jan-23 28-Jan-23			108 108						
15-1960	Electrical Services and Lighting (2.6.06.01)	135			% 30-Apr-19 A		18-Mar-23		108						28-Jan-23, Electi
5-2000	Drainage	135	10	70%	% 20-Mar-22 A	09-Dec-22	31-Mar-23	09-Apr-23	121			09-D	ec-22, Drainage, D	Orainage, 09-Dec-22	
Administration Buil		1033		-	31-Oct-19 A			<u> </u>	168						
5-2050	Electrical and instrumentation works design (2.7.03)	90			% 31-May-22		17-May-23		168						28-Jan-23, Electi
uilding services desi 5-2080	gn (excluding fire services installation design) (2.7.05) MVAC	135 135			31-Oct-19 A % 31-Oct-19 A	28-Jan-23	15-Jan-23 15-Jan-23		46 46						28-Jan-23, MVA
IWMF Substation (2		180				29-Dec-22			39						
-2170	Electrical and instrumentation works design (2.8.03) (14 Packages)	180	30	45%	% 31-Oct-19 A	29-Dec-22	08-Jan-23	06-Feb-23	39				29-	-Dec-22, Electrical and ins	strumentation work
Chimney		151				28-Jan-23			368						
	gn (excluding fire services installation design)	151			20-Sep-21 A		16-Feb-23		368						
5-5430(5a) 5-5440(5a)	Electrical Services and Lighting MVAC	90			% 20-Sep-21 A % 20-Sep-21 A		03-Dec-23 16-Feb-23		368 78				20.	-Dec-22, MVAC, MVAC, 29	28-Jan-23, Elect
5-5450(5a)	Plumbing	90	60		% 20-Sep-21 A			24-Jan-24	361						28-Jan-23, Plum
5-5460-1(5a)	Drainage	90			% 20-Sep-21 A			24-Jan-24	361						28-Jan-23, Drain
5-5470(5a)	ELV	90	60		% 20-Sep-21 A			31-Jan-24	368						28-Jan-23, ELV,
5-5490(5a)	Building Management System (BMS)	90	60	5%	% 27-Oct-21 A	28-Jan-23	16-Jul-23	13-Sep-23	228						28-Jan-23, Build
	and Associated Structures Foundation	105			31-Dec-21 A		17-Jan-23		48						
	gn (excluding fire services installation design)	105			31-Dec-21 A				48						29 Jan 22 Elect
5-7090 P Roads and Utilities	Electrical Services and Lighting	105 820			% 31-Dec-21 A 31-Oct-20 A		17-Jan-23		48 278						28-Jan-23, Elect
	esign on the Artificial Island (2.10.04)	820			31-Oct-20 A		04-Dec-22		174						
5-2360	Water Tanks (2.10.04.05)	60		0%	% 30-Nov-22		09-Dec-22	i	9	3	80-Nov-22				28-Jan-23, Wate
5-2370-2(M24)	Building Services system for seawater intake (2.10.04.09)	105	60	5%	% 31-Oct-20 A	28-Jan-23	23-May-23	21-Jul-23	174						28-Jan-23, Buildi

<b>3-Month Rolling</b>	Programme	(November 2022)
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♦ Milestone

	Activity Name	Original Duration	Remaining Duration	Activity % Current Start Complete	Current Finish	Late Start	Late Finish	Total Float	t M60 Remarks	Nov
05-2370-3(5a)	Chemical scrubber system for odour control (2.10.04.10)	105	60	5% 31-Oct-21	A 28-Jan-23	23-May-23	21-Jul-23	174	L	60
	cation and other utilities (2.10.06)	590	5		A 04-Dec-22	-	02-Nov-23	333		
05-2380	Power Distribution System concept / schematics (2.10.06.01)	135	1	5% 31-Jan-21	A 30-Nov-22	02-Nov-23	02-Nov-23	337		
05-2430	Site ELV Network System - Navigation aids concept / schematics (2.10.06.06)	105	5	80% 31-May-22	04-Dec-22	04-Dec-22	08-Dec-22	4		
Utility ducts/Pipebridge		455	60		28-Jan-23	23-Jan-23	19-Sep-23	234		
05-2460	Design of Pipe / Utilities Trenches concept (2.10.06.09.01)	105	60	5% 01-May-21		22-Jul-23	19-Sep-23	234		
05-2470	Sitewide Utilities Trenches Design (2.10.06.09.02)	105	60 30	5% 01-May-21	28-Jan-23 29-Dec-22	23-Jan-23 04-Jul-23	23-Mar-23 20-Aug-23	54 234		
05-6010	Pipebridge B	60	30	50% 31-May-22		22-Jul-23	20-Aug-23 20-Aug-23	234		
05-6020	Pipebridge C	60	30	50% 31-May-22		04-Jul-23	02-Aug-23	216		
AIP Architectural, Finishe	es and Landscaping Works (2.11)	699	61		29-Jan-23	06-Feb-23	15-Feb-24	382	2	
External and internal fin		439	10		A 09-Dec-22	20-Apr-23	20-Jul-23	223		
05-2570	External and internal finishes design for MT Plant Building (2.11.02)	105	10	45% 31-Oct-20 /		11-Jul-23	20-Jul-23	223		
05-2590	External and internal finishes design for the Water Treatment Plant Building (2.11.04)	105	10	25% 30-Sep-21		11-Jul-23	20-Jul-23	223		
05-2600	External and internal finishes design for the Administration Building (2.11.05)	105	10	45% 31-Oct-20 /		20-Apr-23	29-Apr-23	141		
Landscaping Works (2.1 05-2620	Landscape Masterplan & Landscape Design for Water Feature (2.11.07.01)	180 105	30 30	45% 19-Jun-20	29-Dec-22	06-Feb-23 06-Feb-23	07-Mar-23 07-Mar-23	68 68		!
05-2920 3(M34)	Landscape Architectural Design for MT Plant Building and Water Treatment Plant Building (2.11.07.07)	105	30	5% 16-Jun-22		06-Feb-23	07-Mar-23	68		
05-2920 4(M34)	Landscape Architectural Design for Administration Building (2.11.07.08)	105	30	5% 08-May-20		06-Feb-23	07-Mar-23	68		,
Facade Structural Desig		242	61	-	A 29-Jan-23	17-Nov-23	15-Feb-24	382		
05-8040-1(6D)	Reception Pavilion (2.3.14.07.01)	90	60	5% 05-Oct-21 /		18-Dec-23		383		
05-8050-1(6D)	Mechanical Treatment Plant & Desalination Plant Building (2.4.14.01)	90	60	5% 08-Mar-22	A 28-Jan-23	18-Nov-23	16-Jan-24	353	3	
05-8060-1(6D)	Adminstration Building and Viewing Gallery (2.7.12.01)	90	60	5% 07-Dec-21	A 28-Jan-23	18-Nov-23	16-Jan-24	353	8	
05-8080-1(6D)	Elevated Driveway and Associated Structures	91	61	5% 26-Aug-21	A 29-Jan-23	17-Nov-23	16-Jan-24	352	2	
AIP Testing and Commiss		105	60		A 28-Jan-23	25-Jul-23	22-Sep-23	237		
05-2650-1(5)	Factory Acceptance Testing plan (2.12.01.02-07) (8 Packages)	105	60	5% 23-Apr-19		25-Jul-23	22-Sep-23	237		
AIP Transportation Facili 05-2690	ities for the Operation (2.13) Design of vehicles for MSW and Ash and Residues delivery (2.13.0.1)	105 105	37 37	30-Sep-20 65% 30-Sep-20	A 05-Jan-23	02-Jan-23 02-Jan-23	07-Feb-23 07-Feb-23	33 33		
AIP Miscellaneous Works		865	105		A 14-Mar-23		07-Feb-23 07-May-23			
05-2710	Design of process related CCTV and existing onshore crane replacement works at Portion 2 (2.14.01)	105	105	0% 30-Nov-22			23-Mar-23	9		30-Nov-
05-2720	Design of visitors and environmental education facilities (2.14.02)	105	60	5% 31-Oct-20 /			07-May-23	99		
IP Miscellaneous Detail		90	90		27-Feb-23		26-Aug-23			
05-2740	Gatehouses (2.15.03)	90	90	5% 25-May-22	27-Feb-23	29-May-23	26-Aug-23	180		
05-2750	W eighbridge office (2.15.04)	90	30	5% 25-May-22	29-Dec-22	28-May-23	26-Jun-23	179	)	
AIP Auxiliary Plant Syste		90			27-Feb-23		23-Apr-23			
05-2770	Vehicle Fuel Filling Station (2.16.02)	90	90	0% 30-Nov-22		24-Jan-23		55		30-Nov-3
AIP O&M Packages 05-8010(6E)	Warehouse (O&M Scope)	258 185	171 73	5% 04-Jul-22 A	10-Eeb-23		08-Jul-24 02-Dec-23	416 295		!
05-8030(6E)	Ash & Residues Container (O&M Scope)	160	69	5% 06-Jun-22		22-Feb-24	30-Apr-24	449		
05-8040(6E)	Bicar Debagging Station (O&M Scope)	105	171	5% 17-Nov-22		20-Jan-24	· ·	416		17-Nov-22 A
DA Design Package S		1660	227		A 14-Jul-23	30-Nov-22	26-Dec-24	531		
DA Processand Layout	t Design (21)	621	122	22-Apr-20/	A 31-Mar-23	11-Jan-23	18-Oct-24	567		
	design for incineration (2.1.13)	348	122	22-Apr-207	A 31-Mar-23	12-Apr-23	18-Oct-24	567	·	
05-5090	Incineration System (2.1.13.01) (2 Packages)	105	76	5% 22-Apr-20			26-Jun-23	133		
05-5100	Heat Recovery Boiler (2.1.13.02) (2 Packages)	105	76	5% 23-Apr-20		· ·	26-Jun-23	133		
05-5140	Overall Plan Water Scheme (2.1.13.07)	105	122	5% 29-Jan-21		19-Jun-24		567		
05-5150	Boiler Feed Water System (21.1.3.03) (2 Pack ages)	105	6	45% 23-Apr-20		-	09-Aug-23	247		
05-3510	edesign for mechanical treatment (2.1.14) Water Treatment Plant and Boiler Water Treatment (Demin Unit) Plant	105 105	64 64	5% 02-Oct-20 /	01-Feb-23		02-Jun-23 02-Jun-23	121 121		
	d Power generation system (2.1.15)	105			A 28-Jan-23					
05-5240	Compressed Air Plants	105	60	25% 30-Sep-21			24-Dec-23	330		
Flue gas treatment proc	ess design for incineration (2.1.16)	105	121		A 30-Mar-23	11-Jan-23	11-May-23	42	2	
05-4660	Flue Gas Treatment System (2 Packages)	105	121	80% 23-Apr-20	A 30-Mar-23	11-Jan-23	11-May-23	42	2	
05-4980	Boiler ash and APC residue handling and solidification (2 Packages)	105	25	80% 30-Sep-20	A 24-Dec-22	17-Apr-23	11-May-23	138	8	
	esign for MSW and Ash and Residues (21.17)	105	47	~	A 15-Jan-23	_				
05-4390	Weighbridge Systems	105	1	5% 25-Aug-21		· ·	25-Sep-23	299		
05-4410	Mechanical Shredder	105	47	5% 25-Sep-21		· · ·	26-May-23	131		
05-3430-2(M37)	Reclamation, Seawall, Breakwater, Berth (2.2) Geotechnical Interpretative Report (2.2.02.02)	816 105	20 10	65% 31-Dec-20	A 19-Dec-22		02-Mar-24 05-Jan-23	439 27		
05-3450	Seawall design (2.2.20)	60	20	65% 20-Jan-19			02-Mar-24	439		
05-3430	Berth design (2.2.20)	60	20	65% 30-Jan-19/			25-Apr-23	127		
DDA Incineration Plant B		1554	227		A 14-Jul-23		29-Apr-24			
	ntation works design (2.3.15)	1478	121		A 30-Mar-23		29-Apr-24	396		
2.3.15.01		105	62	05-Nov-21	A 30-Jan-23	21-Jan-23	23-Mar-23	52	2	
05-3360	11kV/380V Power Transformers Design (23.15.01)	105	62	80% 05-Nov-21		21-Jan-23		52		
E&IC Package 1 (Proce		378	108		A 17-Mar-23		19-Sep-23	186		
05-3370	Electric Heat Tracing (Process Island) (2.3.15.0.2.10)	120	105	5% 17-Feb-22	14-Mar-23	22-Feb-23	06-Jun-23	84	1	
05-3390-10(M55)	Electrical Works - MCC Panels (2.3.15.02.01)	105	16	80% 22-Sep-20			19-Aug-23	247		

3-Month Rolling Program	ne (November 2022)
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Page 3 of 17

Remaining Work Actual Work

Actual Milestone

Critical Milestone

Critical Remaining Work

Milestone

**♦** 

ct No. EP/SP Facilities, Pl		<b>R</b>	閱Ç保護署 ivironmental Protection Dep	arlment
Dec		Jan	2023 Feb	
61		62	 3 28-Jan-23, Chemical :	corubbo
	L			
			ics (2.10.06.01), Power D Is concept / schematics (	
			<ul><li>28-Jan-23, Design of I</li><li>28-Jan-23, Sitewide U</li></ul>	
	r		ipebridge B, 29-Dec-22 ipebridge C, 29-Dec-22	
09-Dec-22, External	and internal fin	ishes design	for MT Plant Building (2. for the Water Treatment for the Administration Bu	Plant B
	29-Dec-22, Lar	ndscape Arch	terplan & Landscape Des itectural Design for MTP itectural Design for Admi	lant Bui
			<ul> <li>28-Jan-23, Reception</li> <li>28-Jan-23, Mechanica</li> <li>28-Jan-23, Adminstra</li> </ul>	l Treatn tion Bui
			<ul> <li>29-Jan-23, Elevated</li> <li>28-Jan-23, Factory Action</li> </ul>	
	05-Jan-	23, Design of	f vehicles for MSW and A	
	L		28-Jan-23, Design of v	isitors
	29-Dec-22, We	eighbridge off	ice (2.15.04), Weighbridç	je office
			10-Feb-23, A	
				eb-23, Ir eb-23, H
05-Dec-22, Boiler Feed V	VaterSystem(	2.1.13.03)(2	Packages), Boiler Fæd	Water §
			01-Feb-23, Water	Treatm
			28-Jan-23, Compress	ea Air P
24-D	ec-22, Boiler a	sh and APC r	esidue handling and soli	dificatio
ov-22, Weighbridge Syste	ems, Weighbri		, 30-Nov-22 , Mechanical Shredder, M	1echanio
			.2.02.02), Geotechnical Ir eawall design (2.2.20), 1	
			h design (2.2.22), 19-Dec	
			30. 100 22 111/1//00	
			<u> </u>	
15-Dec-22, Ele	ctrical Works	- MCC Panel	ls (2.3.15.02.01), Electric	al Work

古 第 五 格 新 - 紙 筆 型 4 REPPELSEGNERS-ZHEN HUAJOINT	Activity Name	Original Duration	Remaining Duration	Activity % Current Start Complete	Current Finish	Late Start	Late Finish	Total Float M60 Remarks	ated Waste Manag
		Duration	Duration	Complete					60
05-3390-11(M55)	Electrical Works - Process Island Uninterruptable Power Supply (UPS) (2.3.15.02.03)	105	16	80% 27-Nov-20 A		04-Sep-23	19-Sep-23		
05-3390-13(M55)	Electrical Works E&I Installation at Yard (2.3.15.02.08)	105	32	25% 07-May-22		08-Dec-22	08-Jan-23	8	
05-3390-6(M55)	Electrical Works Instrumentation (2.3.15.02.06)	105	20 108	80% 15-Oct-21 A 5% 12-Jul-21 A		26-Jan-23 11-Feb-23	14-Feb-23	57	
05-7400-1(M55) E&IC Package 2 (Power Is)	Electrical works CEMS and Process Analysers (2.3.15.02.07)	105 773	52	16-Sep-19 A		02-Dec-22	29-May-23 29-Apr-24	73 465	
05-3390-13(M55)10	Electrical Works Design (2.3.15.03.01 to 04)	105	30	80% 23-Dec-20 A		02-Dec-22 02-Dec-22	31-Dec-22	2	
05-3390-4(M46)	Generator Related Equipment (2.3.15.03.08)	105	52	80% 29-Jun-21 A		30-Jul-23	19-Sep-23	242	
05-3390-7(M55)	Instrumentation works design(2.3.15.03.05 & 2.3.15.03.06)	105	32	80% 10-Feb-21 A	31-Dec-22	21-May-23	21-Jun-23	172	
🛓 Control Works Design S	CADA & PLC Control System (23.15.03.07)	592	45	16-Sep-19 A	13-Jan-23	13-Feb-23	29-Apr-24	472	
05-3390-1(M46)	Hardware Design (2.3.15.03.07.01)	105	24	65% 16-Sep-19 A		06-Apr-24	29-Apr-24	493	
05-3390-2(M46)	Software Design (2.3.15.03.07.02)	105	45	45% 30-Oct-21 A		13-Feb-23	29-Mar-23	75	
05-3390-3(6D)	Functional Description Specification (FDS) of Power Island (2.3.15.03.07.03)	105	31	65% 31-Dec-21 A		27-Feb-23	29-Mar-23	89	
Operation Management S 05-3390-7(M46)	System (2.3.15.04) Software Standard Component	1478 105	121 60	05-Sep-18 A 5% 09-Dec-20 A		22-Dec-22 01-Mar-24	29-Apr-24 29-Apr-24	396 457	
05-7400(6E)	Automatic License Plate and Container Recognition System (ALPCRS)	105	121	45% 05-Sep-18 A			29-Apr-24 21-Apr-23	22	
2.3.15.04.02		105	52	30-Oct-21 A		24-May-23	· ·	175	
05-3390-6(M46)	OMS/SCADA/DCS - System Networks Details (2.3.15.04.02)	105	52	65% 30-Oct-21 A	-	24-May-23		175	
2.3.15.04.03		410	105	15-Dec-21 A	14-Mar-23	14-Jul-23	29-Apr-24	412	
2.3.15.04.03.01		105	0	15-Dec-21 A		14-Jul-23	14-Jul-23	227	
05-3390-8(M46)	OMS/SCADA/DCS - OLM Panel Design for Power Island (2.3.15.04.03.01.02)	105	0	80% 15-Dec-21 A		14-Jul-23	14-Jul-23	227	
2.3.15.04.03.02	ONE/CCADA/DCS_ Date Design for Device laterd and Plant Common (2.3.15.04.03.00)	105	105	02-Aug-22 A		16-Jan-24	29-Apr-24	412	
05-3390-13(M58) 2.3.15.04.03.03	OMS/SCADA/DCS - Panel Design for Power Island and Plant Commom (2.3.15.04.03.02)	105 105	105 35	80% 02-Aug-22 A 19-Apr-22 A		16-Jan-24 26-Mar-24	29-Apr-24 29-Apr-24	412 482	
05-3390-14(M55)	OMS/SCADA/DCS - Server Panel Design (2.3.15.04.03.03)	105	35	80% 19-Apr-22 A		26-Mar-24	29-Apr-24	482	
2.3.15.04.06		105	31	06-Oct-21 A		15-Jul-23	14-Aug-23	227	
05-3390-9(6D)	Process Related 3rd Party System (2.3.15.04.06.01.01)	105	31	80% 09-Dec-21 A	30-Dec-22	15-Jul-23	14-Aug-23	227	
05-3420(M58)	3rd Party System for Power Island & Communication Data Tables for Process Vol 1 and Power Island & Plant C. Vol 1 & 2	105	30	80% 06-Oct-21 A	29-Dec-22	15-Jul-23	13-Aug-23	227	
2.3.15.05		105	121	15-Jul-21 A		26-Feb-23	17-Sep-23	171	
05-3390-15(M55)	Balance of Plant LV Switchgear Design (2.3.15.05.01)	105	119	80% 07-May-22		28-Feb-23	26-Jun-23	90	
05-3390-16(M55)	Package 3 (Balance of Plant) - Weighbridge Electrical & Instrumentation Package & ALPCRS (23.15.05.07)	105	121	45% 04-Jan-22 A		26-Feb-23	26-Jun-23	88	
05-3390-17(M55)	Waste Crane Functional Description (23.15.05.08)	105	47	80% 15-Jul-21 A		02-Aug-23	17-Sep-23	245	
05-3390-3(M55) 05-3390-5(M55)	Electrical and Instrumentation Works Design - Compressed Air Plants (2.3. 15.05.03) Electrical and Instrumentation Works - Ash Crane (23.15.05.05)	105 105	0 32	80% 29-Nov-21 A 80% 30-Aug-21 A		07-Jul-23 16-Aug-23	07-Jul-23 16-Sep-23	220 259	
2.3.15.07		105	105	27-Sep-21 A		16-Jan-24	29-Apr-24	412	
05-3390-20(M55)	SCADA & PLC Control System - Software Design (2.3.15.07.02)	105	105	5% 27-Sep-21 A		16-Jan-24	29-Apr-24	412	
2.3.15.08		105	105	23-May-22	14-Mar-23	16-Jan-24	29-Apr-24	412	
05-3390-21(M55)	Operation Management System (2.3.15.08)	105	105	80% 23-May-22	14-Mar-23	16-Jan-24	29-Apr-24	412	
Mechanical works design (	(2.3.16)	1323 1323	227 227	28-Feb-19 A 28-Feb-19 A		09-Dec-22 05-Feb-23	23-Jan-24 25-Sep-23	193 73	
Plant and Equipment 05-3390-4(M55)	Electrical and Instrumentation Works - Waste Crane and Grapple System (2.3.16.01.02)	105	47	70% 07-Jan-20 A		02-Aug-23	17-Sep-23		
05-3580	Weighbridge Systems	105	62	5% 30-Mar-22 A		26-Jul-23	25-Sep-23	238	
05-3610	Incineration System (9 Packages)	105	148	5% 28-Feb-19A		15-Mar-23	09-Aug-23	105	
05-3620	Heat Recovery Boiler (8 Packages)	105	227	5% 31-Jul-19 A	14-Jul-23	05-Feb-23	19-Sep-23	67	
05-3630	Boiler Feed Water Systems (4 Packages)	105	10	45% 30-Sep-19 A	26-Apr-23	31-Jul-23	09-Aug-23	105	
05-3790	Flue Gas Treatment System (12 Pack ages)	105	227	25% 31-Oct-19 A	14-Jul-23	10-Feb-23	24-Sep-23	72	
05-3800	Boiler ash and APC residue handling and solidification	105	0	70% 09-Jun-20 A	29-Jun-23	09-Aug-23	09-Aug-23	42	
05-3820	Air cooled condenser	105	0	5% 30-Jul-20 A			14-Feb-23		
05-3830	Compressed Air Plants	105	47	5% 31-Oct-20 A		22-Apr-23	07-Jun-23	143	
Process Pipeworks (Incl.	Ductworks) and Valves Process island (furnace-boiler-FGC)	562	227	29-Feb-20 A		09-Dec-22	13-Oct-23	91	
05-3840	Process Island (turnace-boller-FGC) Pipe Rack C1, C2, C3, D1 & D2 (Prefab.3)	105 105	227 147	5% 29-Feb-20 A 5% 28-Feb-21 A		04-Feb-23 20-May-23	18-Sep-23 13-Oct-23	66 171	
05-4350	Compressed Air Plantarea	105	47	45% 31-May-21		20-May-23 22-Apr-23	07-Jun-23	143	
05-4370	Pipebridge B (Between CCCW Area & Turbine Hall)	105	47	5% 28-Feb-21 A		13-Apr-23	29-May-23	134	
05-4380	Pipebridge C (Between Turbine Hall & ACC Equipment Yard)	105	47	5% 28-Feb-21 A		13-Apr-23	29-May-23	134	
05-4950	Turbine Hall	105	47	80% 31-May-21	15-Jan-23	06-May-23	21-Jun-23	157	
05-4960	ACC Equipment Yard	105	47	65% 31-May-21	15-Jan-23	09-Dec-22		9	
05-4970	CCCW Area	105	47	65% 31-May-21	15-Jan-23	13-Apr-23	29-May-23	134	
	support (For eqipment, piping & duct, cable tray etc)	105	166	29-May-21	14-May-23	16-Mar-23	01-Sep-23	110	
05-3540	Pipe Rack C1, C2, C3, D1 & D2 (Prefab.3)	105	166	80% 29-May-21	14-May-23	16-Mar-23	28-Aug-23	106	
05-3560	Pipebridge B (Between CCCW Area & Turbine Hall)	105	47	5% 29-May-21	15-Jan-23	26-Mar-23	11-May-23	116	
05-3570	Pipebridge C (Between Turbine Hall & ACC Equipment Yard)	105	47	5% 10-Jun-21 A		17-Jul-23	01-Sep-23	229	
Equipment and piping in	sulation Steam Turbine Generator (STG) and Pressure Reducing and Desuperheating Station (PRDS)	135 105	90 47	31-Dec-21 A 5% 30-Jan-22 A		26-Jul-23 14-Nov-23	23-Jan-24 30-Dec-23	330 349	
05-4550	Air cooled condenser	105	47	5% 31-Dec-21 A		26-Jul-23	10-Sep-23	238	
	Closed Circuit Cooling Water System	105	60	5% 31-Dec-21 A		25-Nov-23	23-Jan-24	330	
05-4560		90	90	30-Nov-22		30-Dec-22		38	
05-4560 05-4570	(excluding fire services installation design) (2.3.18)		90	0% 30-Nov-22		30-Dec-22	_	30	30-Nov
05-4550 05-4560 05-4570 Building services design ( 05-3690	Electrical Services and Lighting (7 Packages)	90							
05-4560 05-4570 Building services design ( 05-3690		90 90	90	0% 30-Nov-22	27-Feb-23	30-Dec-22	29-Mar-23	30	30-Nov-
05-4560 05-4570 Building services design ( 05-3690 05-3740	Electrical Services and Lighting (7 Packages) ELV (7 Packages)							J J	
05-4560 05-4570 Building services design ( 05-3690 05-3740	Electrical Services and Lighting (7 Packages)				Rema	aining Work			estone

ct No. EP/SP Facilities, Pl		環境保護署 Environmental Protaction Department
Dec		2023 Jan Feb
61		62 63
	31-Dec-22, E	Process Island Uninterruptable Power Supplementation at Yard (2.3. iectrical Works E&I Installation at Yard (2.3. rks Instrumentation (2.3.15.02.06), Electrical
		ctrical Works Design (2.3.15.03.01 to 04), El 20-Jan-23, Generator Related Equipm nstrumentation works design(2.3.15.03.05 &2.
23-De		e Design (2.3.15.03.07.01), Hardware Design ( 13-Jan-23, Software Design (2.3.15.03.07.02 Inctional Description Specification (FDS) of F
		28-Jan-23, Software Standard
		20-Jan-23, OMS/SCADA/DCS - Syste
v-22, OMS/SCADA/DCS	- OLM Panel [	Design for Power Island (2.3.15.04.03.01.02),
	🗖 03-Jan-23	, OMS/SCADA/DCS - Server Panel Design (
		ocess Related 3rd Party System (2.3.15.04.0 Party System for Power Island & Communic
		] 15-Jan-23, Waste Crane Functional Descri
v-22, Electrical and Instr		orks Design - Compressed Air Plants (2.3.15 Electrical and Instrumentation Works - Ash Cr
		1 15-Jan-23, Electrical and Instrumentation N 30-Jan-23, Weighbridge Sy
		1 15-Jan-23, Compressed Air Plants, Compr
		<ol> <li>15-Jan-23, Compressed Air Plantarea, Co</li> <li>15-Jan-23, Pipebridge B (Between CCCW</li> <li>15-Jan-23, Pipebridge C (Between Turbine 15-Jan-23, Turbine Hall, Turbine Hall, 15-Ja</li> <li>15-Jan-23, ACC Equipment Yard, ACC Equipment Yard, ACC Equipment Yard, ACC Equipment Science Accession</li> </ol>
		15-Jan-23, Pipebridge B (Between CCCW 15-Jan-23, Pipebridge C (Between Turbine
		15-Jan-23, Steam Turbine Generator (STG) 15-Jan-23, Aircooled condenser, Aircoole

古 第 西 柊 新 - 紙 華 KEPPELSEGIIERS-2012N HUAR	都 含 余 小 OINT VENTURE 「Activity Name	Orininal	Remaining	Activity % Current Start	Current Finish	Late Start	Late Finish	Total Float M60 Remarks	ed Waste Manag
		Original Duration	Duration	Complete		Luo olari	Lastinion	internet internet	Nov 60
05-3750	Lifts and Escalators	90	90	0% 30-Nov-22	27-Feb-23	07-Jan-23	06-Apr-23	38	30-Nov-22
-	gs and Fire Saftey Strategy (2.3.25)	377	60	31-Jul-21 A		30-Nov-22	08-Jun-23	131	
05-3290	Process Building & Wastewater Treatment Plant Turbine Hall Building	60 105	60 30	0% 13-Jun-22 A 25% 29-Dec-21 A		10-Apr-23 30-Nov-22	08-Jun-23 29-Dec-22	131	
05-3320	Compressor & CCCW Building	105	30	25% 29-Dec-21 A		30-Nov-22	29-Dec-22 29-Dec-22	0	
05-3340	Elevated Drive Way and Associated Structures	105	30	25% 31-Jul-21 A		30-Nov-22	29-Dec-22	0	
05-4290	IW MF Substation (2.8.25)	105	30	5% 31-Jul-21 A	29-Dec-22	10-Feb-23	11-Mar-23	72	
05-4800	IW MF Site Wide Architectural Details	105	30	5% 20-Nov-21 A	29-Dec-22	30-Nov-22	29-Dec-22	0	
	ent Plant Building (2.4)	151	90			07-Jan-23		95	
05-5170 05-5180	Foundation design (2.4.13) Structural design (2.4.14)	60 60	32 60	70% 28-Sep-22 A 0% 29-Sep-22 A		03-Mar-23 04-Apr-23	03-Apr-23 02-Jun-23	93 125	
	gn (excluding fire services installation design) (2.4.18)	90	90	30-Nov-22		07-Jan-23	16-May-23	78	
05-3860	MVAC	90	90		27-Feb-23	16-Feb-23	16-May-23	78	30-Nov-22
05-3910	Lifts and Escalators	90	90	0% 30-Nov-22	27-Feb-23	07-Jan-23	06-Apr-23	38	30-Nov-22
DDA Wastewater Treatm		232	144	31-May-22	-		13-Sep-23	144	
05-3960 Building services desir	Mechanical works design (2.5.16) (5 Packages) gn (excluding fire services installation design) (2.5.18)	232	49 84	5% 31-May-22 24-Jun-22 A		21-Jun-23 22-Jun-23	<u> </u>	203 144	
05-4000	Odour Control	90	84	0% 24-Jun-22 A			13-Sep-23	144	
DDA Water Treatment P	lant Building (2.6)	267	89	11-Apr-22 A	26-Feb-23	17-Feb-23	08-Apr-24	407	
05-4060	Foundation design (2.6.13)	60	32	70% 28-Sep-22 A		03-Mar-23	· ·	93	
05-4070	Structural design (2.6.14)	60	60	0% 29-Sep-22 A		04-Apr-23	02-Jun-23	125	
05-4090	Mechanical works design (2.6.16) gn (excluding fire services installation design) (2.6.18)	90	62 89	5% 02-May-22 29-Jun-22 A		07-Feb-24 17-Feb-23	08-Apr-24 16-May-23	434 79	
05-4120	MVAC	90	89	0% 29-Jun-22 A		17-Feb-23		79	
	entation works design (2.6.15)	238	55	11-Apr-22 A	23-Jan-23		23-May-23	120	
05-4080	Water Treatment Plant (WTP) - Variable Speed Drive (2.6.15.01)	238	55	5% 11-Apr-22 A			23-May-23	120	
DDA Administration Bui 05-4180	Foundation design (2.7.11)	288	105	28-Apr-22 A			03-Jul-23	111	
	gn (excluding fire services installation design) (2.7.15)	105	75 105	45% 28-Apr-22 A 30-Nov-22		20-Apr-23 07-Jan-23	03-Jul-23 16-May-23	141 63	
05-4220	Electrical Services and Lighting	105	105		14-Mar-23	01-5a1-23		63	30-Nov-2
05-4280	Lifts and Escalators	90	90	0% 30-Nov-22	27-Feb-23	07-Jan-23	06-Apr-23	38	30-Nov-22
DDAIWMF Substation (		213	90	15-Mar-22 A			28-May-23	90	
05-4340	Fire services installation design (2.8.17)	60	60	0% 30-Nov-22	28-Jan-23		06-Feb-23	9	30-Nov-22
05-4990	gn (excluding fire services installation design) (2.8.18) Electrical Services and Lighting	90 90	60 30	01-May-22 5% 01-May-22		29-Apr-23	28-May-23 28-May-23	120 150	
05-5010	Plumbing	60	60	0% 30-Nov-22	28-Jan-23	09-Dec-22		9	30-Nov-22
05-5020	Drainage	60	60	0% 30-Nov-22	28-Jan-23	09-Dec-22	06-Feb-23	9	30-Nov-22
05-5030-1	Building Management System (BMS)	60	60	0% 30-Nov-22			06-Feb-23	9	30-Nov-22
Electrical and instrume 2.8.15.06	entation works design (2.8.15)	90 90	30 30		27-Feb-23 27-Feb-23	09-Mar-23	07-Apr-23 07-Apr-23	<u>39</u> 39	
05-4320	Electrical and instrumentation works design (2.8.15.06.01 to 40)	90	30	0% 15-Mar-22 A			07-Apr-23	39	
DDA Air Cool Condense	ers Equipment (2.3.06)	60	60	30-Nov-22	28-Jan-23	11-Dec-22	08-Feb-23	11	
	gn (excluding fire services installation design) (2.3.06)	60	60	30-Nov-22	28-Jan-23	11-Dec-22	08-Feb-23	11	
05-5520 DDA Chimney	Plumbing	60 91	60 90	0% 30-Nov-22 14-Mar-22 A		_	08-Feb-23	11 146	30-Nov-22
05-5370	Structural Design	90	90	5% 14-Mar-22 A		25-Apr-23		146	
Building services desig	gn (excluding fire services installation design)	90	60	29-Jun-22 A	28-Jan-23	06-Feb-23	06-Apr-23	68	
05-6050-1(5a)	Lift	90	60	0% 29-Jun-22 A			06-Apr-23	68	
DDA Elevated Drive Wa 05-5380	y and Associated Structures Foundation Structural Design	189 189	189 189	29-Dec-21 A 5% 29-Dec-21 A			18-Sep-23 18-Sep-23	<u>104</u> 104	
DDA Reception Pavilion	-	120	60	08-May-20			03-Nov-23	279	
05-3280	Foundation Design	90	60	5% 09-Apr-21 A		_	03-Nov-23	279	
05-5390	Structural Design	105	60	5% 08-May-20			28-Jun-23	151	
DDA Roads and Utilities		484			28-Apr-23		26-Dec-24	608	
Sewerage design on th 05-4440-1(M55)	e Artificial Island (2.1.0.14) Ship-to-shore Sewage Transfer System for WMF Vessels (Caisson 13)	122 90	60 4	13-Jan-21 A 45% 13-Jan-22 A			26-Dec-24 26-Dec-24	698 754	
05-4440-2(M55)	Ship-to-shore Sewage Transfer System for Passenger Ferry	90	60	45% 13-Jan-21 A			08-Jun-23	131	
Drainage system desig	n on the Artificial Island (2.1 0.15)	105	60	31-Dec-21 A	28-Jan-23	04-Aug-23	02-Oct-23	247	
05-5320	First Flush Drainage System concept	105	60	45% 31-Dec-21 A		-	02-Oct-23	247	
Water supply system d 05-5290	esign on the Artificial Island (2.10.16) Water Tanks	<u>241</u> 90	150 90	04-Apr-22 A 0% 29-Jan-23		_	03-Nov-23 07-May-23	<u>189</u> 9	
05-5300	External FS Systems	90	90	0% 30-Nov-22			08-Mar-23	9	30-Nov-2
05-5300-1(M24)	E&M system for seawater intake (2.10.16.07)	105	75	5% 04-Apr-22 A			03-Nov-23	264	
. ,	ication and other utilities (2.10.18)	217	95			-	12-Sep-23	192	
05-3400 (M21)	Computerised Maintenance Management System (CMMS) (2.10.18.10)	105	30	80% 24-May-22			31-Dec-22	2	
05-3410 (M21)	Information and Document Management System (IDMS) (2.10.18.11)	105	60	45% 10-May-22	28-Jan-23	15-Jul-23	12-Sep-23	227	
05-4590 05-4610	Site Lighting Concept / Schematics Site ELV Network System - Communications System concept / schematics	90 75	90 75	0% 30-Nov-22 0% 30-Nov-22	27-Feb-23 12-Feb-23	07-Feb-23 24-Dec-22	07-May-23 08-Mar-23	69 24	30-Nov-2 30-Nov-2
05-4620	Site ELV Network System - Security Systems concept / schematics	75	75	0% 30-Nov-22	12-Feb-23		08-Mar-23	24	30-Nov-2

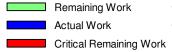
Critical Remaining Work

♦ Milestone

Facilities, P		Jan	2023	Feb
61		62		63
	Turbine Hall B		28-Jan-23, Pro c-22, 29-Dec-22,	ocess Building
	Compressor & Elevated Drive 29-Dec-22, IW IW MF Site W	& CCCW Build e Way and Ass /MF Substation ide Architectur	ing, 29-Dec-22, 2 ociated Structure 1 (2.8.25), IWMF al Details, 29-De	29-Dec-22, Cor es, 29-Dec-22, Substation (2. ec-22, 29-Dec-2
			28-Jan-23, Str	
	21 Dec 22		3, Mechanical wo	
	, 31-Dec-22,		28-Jan-23, Str	
		23	Jan-23, Water T	reatment Plant 12-Feb-23, Fc
1	29-Dec-22, El	ectrical Servic	28-Jan-23, Fir es and Lighting, 28-Jan-23, Plu 28-Jan-23, Dra 28-Jan-23, Bu	Electrical Serv
			28-Jan-23, Plu	Imbing
			] 28-Jan-23, Lift	, Lift, 28-Jan-2
			28-Jan-23, Foi 28-Jan-23, Str	undation Desig uctural Design
Dec-22, Ship-to-shore	Sewage Trans	fer System for	IWMF Vessels ( 28-Jan-23, Sh 28-Jan-23, Fir	ip-to-shore Sev
		29-Jan-23		12-Feb-23, E
	29-Dec-22, Co	omputerised M	aintenance Mana 1 28-Jan-23, Info	gement Syster ormation and D
				12-Feb-23, Si 12-Feb-23, Si

	Activity Name	Original Duration	Remaining Duration	Activity % Complete	Current Start	Current Finish	Late Start	Late Finish	Total Float M60 Remarks	s Nov
										60
05-4630	Site ELV Network System - Navigation aids concept / schematics Microwave transmission of FS direct link	90	90 35		05-Dec-22 22-Aug-22 A			08-Mar-23 01-Feb-23	4 29	05-De
	s and Landscaping Works (2.11)	333			-	14-Mar-23		17-Dec-23	29	
External and internal finis		120	90		10-Aug-22 A		01-Dec-22		233	
05-4670	External and internal finishes design for Incineration Plant Building (2.11.15)	90	90	5%	19-Sep-22 A	27-Feb-23	21-Jul-23	18-Oct-23	233	
05-4690	External and internal finishes design for Turbine Hall Building	90	9	5%	10-Aug-22 A	08-Dec-22	28-Feb-23	08-Mar-23	90	
05-4700	External and internal finishes design for CCCW Building	90	9		10-Aug-22 A		10-Oct-23	18-Oct-23	314	
05-4710	External and internal finishes design for Chimney	90	62		02-Sep-22 A		27-Jul-23	26-Sep-23	239	
05-4740	External and internal finishes design for the Wastewater Treatment Plant (2.11.17)	90	30		19-Sep-22 A		19-Sep-23	18-Oct-23	293	
05-4770	External and internal finishes design for the IW MF Substation (2.11.20)	90 105	9 105		10-Aug-22 A 29-Jun-22 A		01-Dec-22 08-Mar-23		1 98	
Landscaping Works (2.11. 05-4780-1(6C)	Landscape Architectural Design for Turbine Hall Building (2.11.19.04)	105	105		29-Jun-22 A		08-Mar-23	20-Jun-23	98	
05-4780-5(6C)	Landscape Architectural Design for IWMF Substation (2.11.07.10)	105	105		11-Jul-22 A				98	
05-4780-6(6C)	Landscape Architectural Design for Process Building (2.11.07.11)	105	105		10-Aug-22 A			20-Jun-23	98	
Facade Structural Design		244	90		07-Apr-22 A	27-Feb-23	15-Dec-22	17-Dec-23	293	
05-8010(M45)	IWMF Sub-station	90	90	0%	30-Nov-22	27-Feb-23	15-Dec-22	14-Mar-23	15	30-Nov-22
05-8020(6D)	Process Building & Wastewater Treatment Plant (2.6.14.01)	90	60		07-Apr-22 A				323	
DDA Testing and Commiss		260			-	30-May-23		22-Jan-24	237	
05-4810	Factory Acceptance Testing plan (2.12.09.01) Factory Acceptance Testing plan (2.12.09.02-07) (8 Packages)	90	90 122		30-Nov-22			09-Mar-23 22-Jan-24	10 237	30-Nov-22
05-4810-1(5a) 05-4810-2(M55)	Factory Acceptance lesting plan (2.12.09.02-07) (8 Packages) FAT of DCS - Software SIL FAT Plant for Process Island (2.12.09.03.01)	105	122		13-Jun-22 A 19-May-22		23-Sep-23 09-Nov-23	18-Nov-23	344	
( )	lies for the Operation (2.13)	341	183			31-May-23		03-Jul-23	33	
05-4850	Design of vehicles for MSW and Ash and Residues delivery (2.13.05)	341	146		25-Jun-22 A	· · ·	08-Feb-23		33	
05-4860	Design of marine vessels for the use of the Employer and visitors (2.13.06)	183	183	0%	30-Nov-22	31-May-23	02-Jan-23	03-Jul-23	33	30-Nov-22
DDA Auxiliary Plant Syster	ms (2.16)	289	196		26-Apr-22 A	13-Jun-23	02-Dec-22	21-Jul-23	38	
05-4940-2(5a)	Hoisting systems (2.16.10)	196	196	0%	30-Nov-22	13-Jun-23	02-Dec-22	15-Jun-23	2	30-Nov-22
05-4940-3(6E)	EOTC System (2.16.11)	90	106	5%	26-Apr-22 A		· ·	21-Jul-23	128	
rocurement of Majo		1000	360		29-Mar-20 A			05-Apr-24	133	
ff-site Fabrication of Ir	ncineration Modules	825	185		26-Nov-20 A		_	10-Jun-23	8	
Material Procurement	Machaniael Environment Material Onlynianian and Amangal	606			28-Feb-21 A	-		22-Apr-23	84	
06-1000-1(1) 06-1000-3(1)	Mechanical Equipment Material Submission and Approval Electrical and Instrumentation Material Submission and Approval	180	0 60		30-Apr-22 A 28-Feb-21 A	29-May-22 A		22-Feb-23 22-Apr-23	84	
Fabrication of Module (TP)	••	703				02-Jun-23		· · ·	-42	
PFab 1- Line 1		367	84		04-Feb-22 A		02-Oct-22	24-Dec-22	-59	
Mechanical Erection		251	29		04-Feb-22 A	28-Dec-22	02-Oct-22	10-Nov-22	-48	
06-TPU-1-1100	PFab 1-Line 1 Mechanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate)	80	12		04-Feb-22 A		30-Oct-22	10-Nov-22	-31	
06-TPU-1-1110	PFab 1-Line 1 Mechanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Deaerator)	80	21		22-Feb-22 A		21-Oct-22	10-Nov-22	-40	
06-TPU-1-1120	PFab 1-Line 1 Mechanical Installation - 3rd Floor( EL26.72m~EL37.72m) (Including Boiler Ash Transport)	80	24		06-May-22		18-Oct-22	10-Nov-22	-43	
06-TPU-1-1130 06-TPU-1-1250	PFab 1-Line 1 Mechanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	80	29		18-Jun-22 A		13-Oct-22	10-Nov-22	-48	
Piping Installation	PFab 1-Line 1 Mechanical Installation - Boiler Lifting & Installation	80	10 15		24-Jun-22 A	14-Dec-22	02-Oct-22 02-Oct-22	11-Oct-22 16-Oct-22	-59 -59	
06-TPU-1-1000	PFab 1-Line 1 - Piping installation	150	15		05-Jul-22 A			16-Oct-22	-59	
E&I Fabrication		180	3			02-Dec-22	02-Oct-22	04-Oct-22	-59	
06-TPU-1-1230	PFab 1-Line 1 - E&I Fabrication	180	3	98.33%	14-Apr-22 A	02-Dec-22	02-Oct-22	04-Oct-22	-59	
E&I Installation		101	40		09-Sep-22 A	08-Jan-23	02-Oct-22	10-Nov-22	-59	
06-TPU-1-1260	PFab 1-Line 1 - E&I Support Installation	45	11		09-Sep-22 A		02-Oct-22	12-Oct-22	-59	
06-TPU-1-1270	PFab 1-Line 1 - E&I Cable Ladder Erection	30	2	93.33%	17-Oct-22 A		18-Oct-22	19-Oct-22	-59	
Electrical 06-TPU-1-1280	PFab 1-Line 1 - Electrical Cable Pulling and Term ination	64 30	38 30	0%	04-Nov-22 A 08-Dec-22		02-Oct-22 10-Oct-22	08-Nov-22 08-Nov-22	-59 -59	
06-TPU-1-1280	PFab 1-Line 1 - Electrical Gable Pulling and Termination PFab 1-Line 1 - Electrical Equipment Installation	26	26		08-Dec-22 05-Dec-22*		07-Oct-22	08-1N0V-22 01-Nov-22	-59	08-05-De
06-TPU-1-1300	PFab 1-Line 1 - Electrical Heat Tracing Installation	26	6		03-Dec-22 04-Nov-22 A		26-Oct-22	31-Oct-22	-59	
06-TPU-1-1340	PFab 1-Line 1 - MCC room installation	25	10		05-Nov-22 A		02-Oct-22	11-Oct-22	-59	Α
Instrument		45	30		25-Nov-22 A		12-Oct-22	10-Nov-22	-59	
06-TPU-1-1310	PFab 1-Line 1 - Instrument Cable Pulling and Termination	30	30	0%	10-Dec-22	08-Jan-23	12-Oct-22	10-Nov-22	-59	
06-TPU-1-1320	PFab 1-Line 1 - Instrument Equipment Installation	26	9		25-Nov-22 A		14-Oct-22	22-Oct-22	-59	lov-22 A, 25-Nov-22 A
06-TPU-1-1330	PFab 1-Line 1 - Instrument Tubing Installation	26	26	0%	12-Dec-22		14-Oct-22	08-Nov-22	-59	
	PFab 1-Line 1 - Insulation	150	40	79.000/	23-May-22		02-Oct-22	10-Nov-22	-59	
06-TPU-1-1020		150	40 30	13.33%	23-May-22 24-Dec-22		02-Oct-22 26-Oct-22	10-Nov-22 24-Nov-22	-59 -59	
Precommissioning 06-TPU-1-1030	PFab 1-Line 1 - Pre-commissioning	30	30	0%	24-Dec-22 24-Dec-22		26-Oct-22 26-Oct-22	24-Nov-22 24-Nov-22	-59	
Load out & Shipping		20	20			11-Feb-23	25-Nov-22		-59	
06-TPU-1-1040	PFab 1-Line 1 - Load out & ready to ship	20	20			11-Feb-23		14-Dec-22	-59	
Delivery		10	10		12-Feb-23	21-Feb-23	15-Dec-22	24-Dec-22	-59	
06-TPU-1-1350	PFab 1-Line 1 - Delivery	10	10	0%	12-Feb-23			24-Dec-22	-59	
PFab 1- Line 2		371	89			26-Feb-23		30-Dec-22	-58	
Mechanical Erection	PFab 1-Line 2 - Mechanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate)	242 80	21 11		04-Feb-22 A 04-Feb-22 A			02-Nov-22 02-Nov-22	-48 -38	
06-TPU-2-1120										

<b>3-Month Rolling</b>	Programme	(November 2022)
Page 6 of 17		



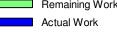
Critical Milestone

ct No. EP/SP Facilities, Pl		P	環境保護 Environment 2023	署 al Protection Departmen
Dec 61		Jan 62	2023	Feb 63
	03-Jan-23	Microwo	o tronomioo	ion of ES direct link
	03-Jan-23	, wicroway		
08-Dec-22, External a 08-Dec-22, External a	· · · · · · · · · · · · · · · · · · ·		n for CCCW	
	·		nternal finisl	nes design for the Wa MF Substation (2.11.2
	}			
			28-Jan	-23, Process Buildin
09-Dec-22, FAT of D0	CS - Software	SIL FAT Pla	ant for Proce	ess Island (2.12.09.03
	·			
			🗖 28-Jan	-23, Electrical and In
				/ EL20.47m) (Includir por(EL20.47m~EL26.
P	Fab 1-Line 1 N	lechanical	Installation	Floor( EL26.72m~EL - 4th Floor(EL37.72m tallation, 09-Dec-22,
PFab 1-Line 1 -	Piping installa	tion, 14-De	ec-22, 14-De	c-22, PFab 1-Line 1
b 1-Line 1 - E&I Fabrica	tion, 02-Dec-2	2, 02-Dec-2	22, PFab 1-l	ine 1 - E&I Fabricati
	·			Dec-22, PFab 1-Line ec-22, 17-Dec-22, PF
	30-Dec-22, Pl PFab 1-Line 1	ab 1-Line - Electrical	1 - Electrica Heat Tracin	lectrical Cable Pullin al Equipment Installat ig Installation, 29-Dec c-22, PFab 1-Line 1
	08-J ine 1 - Instrum	an-23, PFa ent Equipm	b 1-Line 1 - ent Installat	Instrument Cable Pu ion, 20-Dec-22, 20-D
2	, , ,			strument Tubing Insta 08-Jan-23, 08-Jan-23
24-Dec-22		2	2-Jan-23, P	Fab 1-Line 1 - Pre-co
	00			
	23-J	an-23 💻	12-Feb	-23 <b>2</b> 1-Feb-23, PI
				v EL20.47m) (Includi 47m~EL26.72m) (Inc

06-TPU-2-1150         PFab 1-Line 2 - Mech           06-TPU-2-1230         PFab 1-Line 2 - E&I F           E&I Fabrication         PFab 1-Line 2 - E&I F           06-TPU-2-1230         PFab 1-Line 2 - E&I F           06-TPU-2-1260         PFab 1-Line 2 - E&I F           06-TPU-2-1260         PFab 1-Line 2 - E&I F           06-TPU-2-1280         PFab 1-Line 2 - E&I F           06-TPU-2-1280         PFab 1-Line 2 - E           06-TPU-2-1330         PFab 1-Line 2 - E           06-TPU-2-1330         PFab 1-Line 2 - Instruent           06-TPU-2-1310         PFab 1-Line 2 - Instruent           06-TPU-2-1320         PFab 1-Line 2 - Instruent           06-TPU-2-1010         PFab 1-Line 2 - Instruent           06-TPU-2-1020         PFab 1-Line 2 - Instruent           06-TPU-2-1030         PFab 1-Line 2 - Delivent           06-TPU-2-1030         PFab 1-Line 2 - Delivent           06-TPU-2-1030         PFab 1-Line 3 - Tertiant           Delivery         Ochtrue Fabrication           06-TPU-3-1030         PFab 1-Line 3 - Tertiant           Structure Fabrication         Ochtrue 3 - Tertiant           06-TPU-3-1030         PFab 1-Line 3 - Mech           06-TPU-3-1030         PFab 1-Line 3 - Mech           06-TPU-3-1030         PFab 1-Line	Support Installation Cable Ladder Erection etrical Cable Pulling and Term ination etrical Equipment Installation etrical Heat Tracing Installation croom installation rument Cable Pulling and Termination rument Cable Pulling and Termination rument Equipment Installation rument Equipment Installation rument Tubing Ins tallation lation commissioning d out & ready to ship very ary Structure Fabrication Floor(EL37.72m ~ EL47.22m) Primary & Secondary Steel Structure Erection Floor(EL47.22m ~ EL54.47m) Prim ary & Secondary Steel Structure Erection Floor(EL47.22m ~ EL54.47m) Prim ary & Secondary Steel Structure Erection ary Structure Fabrication hanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) hanical Installation - 3rd Floor(EL27.72m ~ EL47.22m) (Including Boiler Ash Transport) hanical Installation - 4th Floor(EL37.72m ~ EL47.22m) (Including Air Ducts)	Original Duration           80           80           80           80           80           80           80           80           80           80           80           80           180           180           180           180           40           45           45           40           30           26           26           26           26           26           26           26           26           26           26           26           26           26           26           26           26           26           26           26           26           26           26           27           30           200           10           10           10           200           200	Duration 111 211 11 11 11 48 34 38 40 30 266 266 266 266 266 266 266 26	73.759 98.759 93.899 24.449 15.569 09 09 09 09 09 09 09 09 09 09 09 09 09	i       14-Apr-22 A         i       09-Sep-22 A         i       09-Sep-22 A         i       09-Sep-22 A         i       18-Dec-22 A         i       11-Dec-22 A         i       14-Dec-22 A         i       17-Feb-23 A         i       17-Feb-23 A         i       26-Nov-20 A         i       26-Nov-20 A         i       26-Nov-20 A         i       11-Jul-22 A         i       03-Aug-22 A         i       14-Jan-22 A	20-Dec-22         30-Nov-22         10-Dec-22         10-Dec-22         10-Dac-22         10-Dac-22         10-Dac-22         11-Jan-23         16-Jan-23         16-Jan-23         08-Jan-23         08-Jan-23         08-Jan-23         08-Jan-23         08-Jan-23         08-Jan-23         16-Jan-23         16-Jan-23         16-Jan-23         16-Jan-23         27-Jan-23         16-Feb-23         19-Dec-22         19-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22	16-Oct-22           10-Jan-23           10-Jan-23           10-Oct-22           16-Oct-22           16-Oct-22           22-Oct-22	02-Nov-22           03-Oct-22           13-Oct-22           13-Oct-22           13-Nov-22           19-Nov-22           20-Dec-22           20-Dec-22           30-Dec-22           29-Jan-23           29-Jan-23           29-Jan-23           29-Jan-23	-38 -38 -48 -58 -58 -58 -58 -58 -58 -58 -58 -58 -5			Dec         Jan         Feb           61         62         63           P Fab 1-Line 2 - Mechanical Installation - 3rd Floor(EL26.72m~EL37         PFab 1-Line 2 - Mechanical Installation - 4th Floor(EL37.71           PFab 1-Line 2 - Mechanical Installation - Boiler Lifting & Installation, 30-Nov-22         PFab 1-Line 2 - Mechanical Installation - Boiler Lifting & Installation, 30-Nov-22           PFab 1-Line 2 - E& Fabrication, 10-Dec-22, 10-Dec-22, PFab 1-Line         PFab 1-Line 2 - E& Fabrication, 10-Dec-22, 10-Dec-22, PFab 1-Line           PFab 1-Line 2 - E& Fabrication, 10-Dec-22, 10-Dec-22, PFab 1-Line         PFab 1-Line 2 - E& Fabrication, 02-Nov-22           PFab 1-Line 2 - E& Fabrication, 10-Dec-22, 10-Dec-22, PFab 1-Line         PFab 1-Line 2 - E& Fabrication, 02-Nov-22           18-Dec-22         08-Jan-23, PFab 1-Line 2 - Electrical Heat Tr           11-Dec-22         08-Jan-23, PFab 1-Line 2 - Electrical Heat Tr           11-Dec-22         04-Jan-23, PFab 1-Line 2 - Instrument           14-Dec-22         08-Jan-23, PFab 1-Line 2 - Instrument           14-Dec-22         08-J
06-TPU-2-1150         PFab 1-Line 2 - Mech           06-TPU-2-1230         PFab 1-Line 2 - E&I I           06-TPU-2-1230         PFab 1-Line 2 - E&I I           06-TPU-2-1250         PFab 1-Line 2 - E&I I           06-TPU-2-1260         PFab 1-Line 2 - E&I I           06-TPU-2-1260         PFab 1-Line 2 - E&I I           06-TPU-2-1280         PFab 1-Line 2 - E&I I           06-TPU-2-1280         PFab 1-Line 2 - E           06-TPU-2-1330         PFab 1-Line 2 - Istr           06-TPU-2-1330         PFab 1-Line 2 - Instr           06-TPU-2-1310         PFab 1-Line 2 - Instr           06-TPU-2-1320         PFab 1-Line 2 - Instr           06-TPU-2-1320         PFab 1-Line 2 - Instr           06-TPU-2-1010         PFab 1-Line 2 - Instr           06-TPU-2-1020         PFab 1-Line 2 - Instr           06-TPU-2-1030         PFab 1-Line 2 - Deliv           Precommissioning         Instrument           06-TPU-2-1340         PFab 1-Line 3 - Tertia           Structure Fabrication         Instr           06-TPU-3-1300         PFab 1-Line 3 - Tertia           06-TPU-3-1030         PFab 1-Line 3 - Mech           06-TPU-3-1030         PFab 1-Line 3 - Mech           06-TPU-3-1030         PFab 1-Line 3 - Mech <td< th=""><th>hanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts) hanical Installation - Boiler Lifting &amp; Installation Fabrication Support Installation Cable Ladder Erection trical Cable Pulling and Term ination ctrical Cable Pulling and Term ination ctrical Heat Tracing Installation croom installation croom installation rument Cable Pulling and Termination rument Cable Pulling and Termination rument Equipment Installation commissioning d out &amp; ready to ship very ary Structure Fabrication Floor(EL37.72m ~EL47.22m) Primary &amp; Secondary Steel Structure Erection Floor(EL47.22m ~ EL54.47m) Primary &amp; Secondary Steel Structure Erection ary Structure Fabrication hanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) hanical Installation - 2nd Floor(EL20.47m ~ EL47.22m) (Including Deaerator) hanical Installation - 3rd Floor(EL20.72m ~EL47.22m) (Including Boiler As h Transport) hanical Installation - 4th Floor(EL37.72m ~EL47.22m) (Including Air Ducts)</th><th>80           80           80           180           180           180           180           180           45           45           45           40           30           26           26           26           26           26           26           26           26           26           26           26           26           26           26           26           27           30           26           27           30           26           27           30           26           26           26           26           26           26           26           26           20           20           20           20           20           20           200           200</th><th>21 1 1 1 48 34 38 40 30 26 26 26 25 34 30 26 26 26 48 30 26 26 25 34 30 26 26 26 25 34 30 26 26 25 34 30 26 25 51 20 20 20 20 20 27 5 5 12 20 27 5 5 12 27 44</th><th>73.759 98.759 93.899 24.449 15.569 09 09 09 09 09 09 09 09 09 09 09 09 09</th><th>a         19-Jun-22 A           b         19-Jun-22 A           c         23-May-22           d         14-Apr-22 A           o         9-Sep-22 A           o         18-Dec-22 A           o         18-Dec-22 A           o         18-Dec-22 A           o         10-Dec-22 A           o         14-Dec-22 A           o         14-Dec-22 A           o         08-Dec-22 A           o         26-Nov-20 A           o         26-Nov-20 A           o         26-Nov-20 A           o         26</th><th>20-Dec-22         30-Nov-22         10-Dec-22         10-Dec-22         10-Dac-22         10-Dac-22         10-Dac-22         11-Jan-23         16-Jan-23         16-Jan-23         08-Jan-23         08-Jan-23         08-Jan-23         08-Jan-23         08-Jan-23         08-Jan-23         16-Jan-23         16-Jan-23         16-Jan-23         16-Jan-23         27-Jan-23         16-Feb-23         19-Dec-22         19-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22</th><th>13-Oct-22         03-Oct-22         03-Oct-22         03-Oct-22         03-Oct-22         03-Oct-22         03-Oct-22         03-Oct-22         10-Oct-22         11-Oct-22         11-Oct-22         11-Oct-22         11-Oct-22         11-Oct-22         11-Oct-22         17-Oct-22         17-Oct-22         03-Oct-22         03-Oct-22         11-Oct-22         11-Oct-22         03-Oct-22         03-Oct-22         11-Oct-22         01-Dec-22         01-Dec-22         11-Oct-22         11-Oct-22         01-Dec-22         11-Oct-22         10-Dec-22         10-Dec-22         10-Jan-23         10-Jan-23         10-Oct-22         10-Oct-22</th><th>02-Nov-22           03-Oct-22           13-Oct-22           13-Oct-22           13-Nov-22           05-Nov-22           14-Nov-22           19-Nov-22           20-Dec-22           20-Dec-22           30-Dec-22           30-Dec-22           29-Jan-23           29-Jan-23           29-Jan-23           20-Oct-22</th><th>-48 -58 -58 -58 -58 -58 -58 -58 -58 -58 -5</th><th></th><th></th><th>PFab 1-Line 2 - Mechanical Installation - 4th Floor(EL37.7 PFab 1-Line 2 - Mechanical Installation - Boiler Lifting &amp; Installation, 30-Nov-22 PFab 1-Line 2 - E&amp;I Fabrication, 10-Dec-22, 10-Dec-22, PFab 1-Line PFab 1-Line 2 - E&amp;I Support Installation, 02- PFab 1-Line 2 - E&amp;I Cable Ladder E 18-Dec-22 08-Jan-23, PFab 1-Line 2 - Electrical E 14-Dec-22 08-Jan-23, PFab 1-Line 2 - Electrical Heat Tr 11-Dec-22 04-Jan-23, PFab 1-Line 2 - Instrument 18-Dec-22 08-Jan-23, PFab 1-Line 2 - Instrument 18-Dec-22 08-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-22 108-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-23 108-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-24 108-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-25 108-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-26 108-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-27 108-Jan-23, PFab 1-Line 2 - Instrument 14-De</th></td<>	hanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts) hanical Installation - Boiler Lifting & Installation Fabrication Support Installation Cable Ladder Erection trical Cable Pulling and Term ination ctrical Cable Pulling and Term ination ctrical Heat Tracing Installation croom installation croom installation rument Cable Pulling and Termination rument Cable Pulling and Termination rument Equipment Installation commissioning d out & ready to ship very ary Structure Fabrication Floor(EL37.72m ~EL47.22m) Primary & Secondary Steel Structure Erection Floor(EL47.22m ~ EL54.47m) Primary & Secondary Steel Structure Erection ary Structure Fabrication hanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) hanical Installation - 2nd Floor(EL20.47m ~ EL47.22m) (Including Deaerator) hanical Installation - 3rd Floor(EL20.72m ~EL47.22m) (Including Boiler As h Transport) hanical Installation - 4th Floor(EL37.72m ~EL47.22m) (Including Air Ducts)	80           80           80           180           180           180           180           180           45           45           45           40           30           26           26           26           26           26           26           26           26           26           26           26           26           26           26           26           27           30           26           27           30           26           27           30           26           26           26           26           26           26           26           26           20           20           20           20           20           20           200           200	21 1 1 1 48 34 38 40 30 26 26 26 25 34 30 26 26 26 48 30 26 26 25 34 30 26 26 26 25 34 30 26 26 25 34 30 26 25 51 20 20 20 20 20 27 5 5 12 20 27 5 5 12 27 44	73.759 98.759 93.899 24.449 15.569 09 09 09 09 09 09 09 09 09 09 09 09 09	a         19-Jun-22 A           b         19-Jun-22 A           c         23-May-22           d         14-Apr-22 A           o         9-Sep-22 A           o         18-Dec-22 A           o         18-Dec-22 A           o         18-Dec-22 A           o         10-Dec-22 A           o         14-Dec-22 A           o         14-Dec-22 A           o         08-Dec-22 A           o         26-Nov-20 A           o         26-Nov-20 A           o         26-Nov-20 A           o         26	20-Dec-22         30-Nov-22         10-Dec-22         10-Dec-22         10-Dac-22         10-Dac-22         10-Dac-22         11-Jan-23         16-Jan-23         16-Jan-23         08-Jan-23         08-Jan-23         08-Jan-23         08-Jan-23         08-Jan-23         08-Jan-23         16-Jan-23         16-Jan-23         16-Jan-23         16-Jan-23         27-Jan-23         16-Feb-23         19-Dec-22         19-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22	13-Oct-22         03-Oct-22         03-Oct-22         03-Oct-22         03-Oct-22         03-Oct-22         03-Oct-22         03-Oct-22         10-Oct-22         11-Oct-22         11-Oct-22         11-Oct-22         11-Oct-22         11-Oct-22         11-Oct-22         17-Oct-22         17-Oct-22         03-Oct-22         03-Oct-22         11-Oct-22         11-Oct-22         03-Oct-22         03-Oct-22         11-Oct-22         01-Dec-22         01-Dec-22         11-Oct-22         11-Oct-22         01-Dec-22         11-Oct-22         10-Dec-22         10-Dec-22         10-Jan-23         10-Jan-23         10-Oct-22	02-Nov-22           03-Oct-22           13-Oct-22           13-Oct-22           13-Nov-22           05-Nov-22           14-Nov-22           19-Nov-22           20-Dec-22           20-Dec-22           30-Dec-22           30-Dec-22           29-Jan-23           29-Jan-23           29-Jan-23           20-Oct-22	-48 -58 -58 -58 -58 -58 -58 -58 -58 -58 -5			PFab 1-Line 2 - Mechanical Installation - 4th Floor(EL37.7 PFab 1-Line 2 - Mechanical Installation - Boiler Lifting & Installation, 30-Nov-22 PFab 1-Line 2 - E&I Fabrication, 10-Dec-22, 10-Dec-22, PFab 1-Line PFab 1-Line 2 - E&I Support Installation, 02- PFab 1-Line 2 - E&I Cable Ladder E 18-Dec-22 08-Jan-23, PFab 1-Line 2 - Electrical E 14-Dec-22 08-Jan-23, PFab 1-Line 2 - Electrical Heat Tr 11-Dec-22 04-Jan-23, PFab 1-Line 2 - Instrument 18-Dec-22 08-Jan-23, PFab 1-Line 2 - Instrument 18-Dec-22 08-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-22 108-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-23 108-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-24 108-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-25 108-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-26 108-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-27 108-Jan-23, PFab 1-Line 2 - Instrument 14-De
06-TPU-2-1240         PFab 1-Line 2 - Mech           E&I Fabrication         PFab 1-Line 2 - E&I I           06-TPU-2-1250         PFab 1-Line 2 - E&I I           06-TPU-2-1260         PFab 1-Line 2 - E&I I           06-TPU-2-1260         PFab 1-Line 2 - E&I I           06-TPU-2-1280         PFab 1-Line 2 - Elect           06-TPU-2-1280         PFab 1-Line 2 - Elect           06-TPU-2-1300         PFab 1-Line 2 - Instrument           06-TPU-2-1310         PFab 1-Line 2 - Instrument           06-TPU-2-1320         PFab 1-Line 2 - Instrument           06-TPU-2-1320         PFab 1-Line 2 - Instrument           06-TPU-2-1320         PFab 1-Line 2 - Instrument           06-TPU-2-1020         PFab 1-Line 2 - Instrument           06-TPU-2-1030         PFab 1-Line 2 - Delivery           06-TPU-2-1030         PFab 1-Line 3 - Tertian           Structure Fabrication         Oc           06-TPU-3-1100         PFab 1-Line 3 - Mech           06-TPU-3-1100         PFab 1-Line 3 - Mech           06-TPU-3-1100         PFab 1-Line 3 - Mech           06-TPU-3-1120         <	hanical Installation - Boiler Lifting & Installation Fabrication Support Installation Cable Ladder Erection Extrical Cable Pulling and Term ination Extrical Cable Pulling and Term ination Extrical Leat Tracing Installation Croom installation	80           180           180           180           180           180           180           45           45           45           45           40           30           26           26           26           26           26           26           26           26           26           26           26           26           26           26           26           27           30           26           27           30           26           27           30           26           26           26           26           26           26           26           20           20           20           20           20           200           200           200           200 <t< td=""><td>1 11 11 48 34 38 40 30 26 26 25 34 30 26 26 48 48 51 51 20 20 10 10 136 20 20 27 5 12 27 5 12 27 44 16</td><td>98.75% 93.89% 24.44% 15.56% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%</td><td>23-May-22         14-Apr-22 A         14-Apr-22 A         99-Sep-22 A         209-Sep-22 A         208-Dec-22 A         208-Dec-22 A         208-Dec-22 A         208-Dec-22 A         208-Dec-22 A         214-Dec-22 A         214-Dec-22 A         22-May-22 A         28-Dac-22 A         26-Nov-20 A         26-Nov-20 A         26-Nov-20 A         26-Nov-20 A         26-Nov-20 A         26-Nov-20 A         28-Dac-22 A         29-Nov-20 A         29-Nov-20 A         29-Nov-20 A         29-Nov-20 A         29-Nov-20 A         20-Nov-20 A     <!--</td--><td>30-Nov-22         10-Dec-22         10-Dec-22         10-Dec-22         10-Dec-22         16-Jan-23         16-Jan-23         16-Jan-23         08-Jan-23         04-Jan-23         16-Jan-23         08-Jan-23         08-Jan-23         08-Jan-23         08-Jan-23         16-Jan-23         16-Feb-23         16-Feb-23         16-Feb-23         16-Feb-23         16-Feb-23         19-Dec-22         19-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22</td><td>03-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           10-Oct-22           11-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           11-Oct-22           01-Dec-22           01-Dec-22           21-Oct-22           01-Dec-22           01-Dec-22           10-Jan-23           10-Jan-23           10-Jan-23           16-Oct-22           <td< td=""><td>03-Oct-22           13-Oct-22           13-Oct-22           13-Oct-22           13-Nov-22           19-Nov-22           20-Dec-22           20-Dec-22           30-Dec-22           30-Dec-22           29-Jan-23           29-Jan-23           29-Jan-23           20-Dec-22           30-Dec-22           29-Jan-23           29-Jan-23           20-Oct-22</td><td>-58 -58 -58 -58 -58 -58 -58 -58 -58 -58</td><td></td><td></td><td>PFab 1-Line 2 - Mechanical Installation - Boiler Lifting &amp; Installation, 30-Nov-22          PFab 1-Line 2 - E&amp;I Fabrication, 10-Dec-22, 10-Dec-22, PFab 1-Line         PFab 1-Line 2 - E&amp;I Support Installation, 02-         PFab 1-Line 2 - E&amp;I Cable Ladder E         18-Dec-22         16-Jan-23, PFab 1-Line 2 - Electrical Heat Tr         11-Dec-22*         02-Jan-23, PFab 1-Line 2 - Electrical Heat Tr         18-Dec-22         04-Jan-23, PFab 1-Line 2 - Electrical Heat Tr         19-Dec-22*         04-Jan-23, PFab 1-Line 2 - Instrument         14-Dec-22         08-Jan-23, PFab 1-Line 2 - Instrument         14-Dec-22</td></td<></td></td></t<>	1 11 11 48 34 38 40 30 26 26 25 34 30 26 26 48 48 51 51 20 20 10 10 136 20 20 27 5 12 27 5 12 27 44 16	98.75% 93.89% 24.44% 15.56% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	23-May-22         14-Apr-22 A         14-Apr-22 A         99-Sep-22 A         209-Sep-22 A         208-Dec-22 A         208-Dec-22 A         208-Dec-22 A         208-Dec-22 A         208-Dec-22 A         214-Dec-22 A         214-Dec-22 A         22-May-22 A         28-Dac-22 A         26-Nov-20 A         26-Nov-20 A         26-Nov-20 A         26-Nov-20 A         26-Nov-20 A         26-Nov-20 A         28-Dac-22 A         29-Nov-20 A         29-Nov-20 A         29-Nov-20 A         29-Nov-20 A         29-Nov-20 A         20-Nov-20 A </td <td>30-Nov-22         10-Dec-22         10-Dec-22         10-Dec-22         10-Dec-22         16-Jan-23         16-Jan-23         16-Jan-23         08-Jan-23         04-Jan-23         16-Jan-23         08-Jan-23         08-Jan-23         08-Jan-23         08-Jan-23         16-Jan-23         16-Feb-23         16-Feb-23         16-Feb-23         16-Feb-23         16-Feb-23         19-Dec-22         19-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22</td> <td>03-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           10-Oct-22           11-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           11-Oct-22           01-Dec-22           01-Dec-22           21-Oct-22           01-Dec-22           01-Dec-22           10-Jan-23           10-Jan-23           10-Jan-23           16-Oct-22           <td< td=""><td>03-Oct-22           13-Oct-22           13-Oct-22           13-Oct-22           13-Nov-22           19-Nov-22           20-Dec-22           20-Dec-22           30-Dec-22           30-Dec-22           29-Jan-23           29-Jan-23           29-Jan-23           20-Dec-22           30-Dec-22           29-Jan-23           29-Jan-23           20-Oct-22</td><td>-58 -58 -58 -58 -58 -58 -58 -58 -58 -58</td><td></td><td></td><td>PFab 1-Line 2 - Mechanical Installation - Boiler Lifting &amp; Installation, 30-Nov-22          PFab 1-Line 2 - E&amp;I Fabrication, 10-Dec-22, 10-Dec-22, PFab 1-Line         PFab 1-Line 2 - E&amp;I Support Installation, 02-         PFab 1-Line 2 - E&amp;I Cable Ladder E         18-Dec-22         16-Jan-23, PFab 1-Line 2 - Electrical Heat Tr         11-Dec-22*         02-Jan-23, PFab 1-Line 2 - Electrical Heat Tr         18-Dec-22         04-Jan-23, PFab 1-Line 2 - Electrical Heat Tr         19-Dec-22*         04-Jan-23, PFab 1-Line 2 - Instrument         14-Dec-22         08-Jan-23, PFab 1-Line 2 - Instrument         14-Dec-22</td></td<></td>	30-Nov-22         10-Dec-22         10-Dec-22         10-Dec-22         10-Dec-22         16-Jan-23         16-Jan-23         16-Jan-23         08-Jan-23         04-Jan-23         16-Jan-23         08-Jan-23         08-Jan-23         08-Jan-23         08-Jan-23         16-Jan-23         16-Feb-23         16-Feb-23         16-Feb-23         16-Feb-23         16-Feb-23         19-Dec-22         19-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22	03-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           10-Oct-22           11-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           11-Oct-22           01-Dec-22           01-Dec-22           21-Oct-22           01-Dec-22           01-Dec-22           10-Jan-23           10-Jan-23           10-Jan-23           16-Oct-22           16-Oct-22 <td< td=""><td>03-Oct-22           13-Oct-22           13-Oct-22           13-Oct-22           13-Nov-22           19-Nov-22           20-Dec-22           20-Dec-22           30-Dec-22           30-Dec-22           29-Jan-23           29-Jan-23           29-Jan-23           20-Dec-22           30-Dec-22           29-Jan-23           29-Jan-23           20-Oct-22</td><td>-58 -58 -58 -58 -58 -58 -58 -58 -58 -58</td><td></td><td></td><td>PFab 1-Line 2 - Mechanical Installation - Boiler Lifting &amp; Installation, 30-Nov-22          PFab 1-Line 2 - E&amp;I Fabrication, 10-Dec-22, 10-Dec-22, PFab 1-Line         PFab 1-Line 2 - E&amp;I Support Installation, 02-         PFab 1-Line 2 - E&amp;I Cable Ladder E         18-Dec-22         16-Jan-23, PFab 1-Line 2 - Electrical Heat Tr         11-Dec-22*         02-Jan-23, PFab 1-Line 2 - Electrical Heat Tr         18-Dec-22         04-Jan-23, PFab 1-Line 2 - Electrical Heat Tr         19-Dec-22*         04-Jan-23, PFab 1-Line 2 - Instrument         14-Dec-22         08-Jan-23, PFab 1-Line 2 - Instrument         14-Dec-22</td></td<>	03-Oct-22           13-Oct-22           13-Oct-22           13-Oct-22           13-Nov-22           19-Nov-22           20-Dec-22           20-Dec-22           30-Dec-22           30-Dec-22           29-Jan-23           29-Jan-23           29-Jan-23           20-Dec-22           30-Dec-22           29-Jan-23           29-Jan-23           20-Oct-22	-58 -58 -58 -58 -58 -58 -58 -58 -58 -58			PFab 1-Line 2 - Mechanical Installation - Boiler Lifting & Installation, 30-Nov-22          PFab 1-Line 2 - E&I Fabrication, 10-Dec-22, 10-Dec-22, PFab 1-Line         PFab 1-Line 2 - E&I Support Installation, 02-         PFab 1-Line 2 - E&I Cable Ladder E         18-Dec-22         16-Jan-23, PFab 1-Line 2 - Electrical Heat Tr         11-Dec-22*         02-Jan-23, PFab 1-Line 2 - Electrical Heat Tr         18-Dec-22         04-Jan-23, PFab 1-Line 2 - Electrical Heat Tr         19-Dec-22*         04-Jan-23, PFab 1-Line 2 - Instrument         14-Dec-22         08-Jan-23, PFab 1-Line 2 - Instrument         14-Dec-22
E&I Fabrication           06-TPU-2-1230         PFab 1-Line 2 - E&I 1           06-TPU-2-1250         PFab 1-Line 2 - E&I 1           06-TPU-2-1260         PFab 1-Line 2 - E&I 1           06-TPU-2-1260         PFab 1-Line 2 - E&I 1           06-TPU-2-1280         PFab 1-Line 2 - Elect           06-TPU-2-1280         PFab 1-Line 2 - Elect           06-TPU-2-1280         PFab 1-Line 2 - Elect           06-TPU-2-1330         PFab 1-Line 2 - Instru           06-TPU-2-1310         PFab 1-Line 2 - Instru           06-TPU-2-1310         PFab 1-Line 2 - Instru           06-TPU-2-1300         PFab 1-Line 2 - Instru           06-TPU-2-1010         PFab 1-Line 2 - Instru           06-TPU-2-1020         PFab 1-Line 2 - Instru           06-TPU-2-1030         PFab 1-Line 3 - Instru           06-TPU-3-1100         PFab 1-Line 3 - Instru           06-TPU-3-1100         PFab 1-Line 3 - Mect           06-TPU-3-1100         PFab 1-Line 3 - Mect           06	Fabrication         Support Installation         Cable Ladder Erection         etrical Cable Pulling and Term ination         etrical Equipment Installation         trical Heat Tracing Installation         croom installation         rument Cable Pulling and Termination         rument Cable Pulling and Termination         rument Equipment Installation         rument Tubing Installation         commissioning         d out & ready to ship         very         ary Structure Fabrication         Floor(EL37.72m ~ EL47.22m) Primary & Secondary Steel Structure Erection         Floor(EL47.22m ~ EL54.47m) Prim ary & Secondary Steel Structure Erection         Floor(EL47.22m ~ EL54.47m) Prim ary & Secondary Steel Structure Erection         hanical Installation - 1st Floor (Below EL20.47m ) (Including Combustion Grate)         hanical Installation - 2nd Floor(EL20.47m ~ EL26.72m ) (Including Deaerator)         hanical Installation - 3rd Floor(EL26.72m ~ EL37.72m ) (Including Boiler Ash Transport)	180         109         45         45         40         30         26         26         25         34         30         26         25         34         30         26         25         34         30         26         25         34         30         26         25         34         30         26         25         34         30         26         26         26         26         26         26         26         27         20         20         20         20         20         20         20         20         20         200         200         200         200         200         200         200	48 34 38 40 30 26 26 26 34 30 26 26 48 48 51 51 20 20 10 10 136 20 20 10 136 20 20 10 136 20 20 10 10 136 20 20 10 10 20 20 10 10 20 20 20 10 10 20 20 20 20 20 20 20 20 20 2	24.449 15.569 09 09 09 09 09 09 09 09 09 09 09 09 09	i       14-Apr-22 A         i       09-Sep-22 A         i       09-Sep-22 A         i       09-Sep-22 A         i       18-Dec-22 A         i       11-Dec-22 A         i       14-Dec-22 A         i       17-Feb-23 A         i       17-Feb-23 A         i       26-Nov-20 A         i       26-Nov-20 A         i       26-Nov-20 A         i       11-Jul-22 A         i       03-Aug-22 A         i       14-Jan-22 A	10-Dec-22         16-Jan-23         16-Jan-23         16-Jan-23         16-Jan-23         08-Jan-23         08-Jan-23         04-Jan-23         08-Jan-23         08-Jan-23         16-Jan-23         16-Jan-23         16-Jan-23         16-Jan-23         08-Jan-23         08-Jan-23         16-Jan-23         16-Jan-23         16-Jan-23         16-Jan-23         27-Jan-23         16-Feb-23         16-Feb-23         26-Feb-23         18-Dec-22         19-Dec-22         04-Dec-22         11-Dec-22	03-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           11-Oct-22           17-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           01-Dec-22           11-Oct-22           01-Dec-22           21-Dec-22           10-Jan-23           10-Jan-23           16-Oct-22           16-Oct-22 <td< td=""><td>13-Oct-22         13-Oct-22         05-Nov-22         14-Nov-22         19-Nov-22         19-Nov-22         05-Nov-22         07-Nov-22         19-Nov-22         19-Nov-22         19-Nov-22         19-Nov-22         19-Nov-22         19-Nov-22         11-Nov-22         11-Nov-22         10-Nov-22         20-Dec-22         30-Nov-22         30-Dec-22         30-Dec-22         30-Dec-22         29-Jan-23         29-Jan-23         20-Dec-22</td><td>58 -58 -58 -58 -58 -58 -58 -58 -58 -58</td><td></td><td></td><td>PFab 1-Line 2 - E&amp;I Support Installation, 02- PFab 1-Line 2 - E&amp;I Cable Ladder E 18-Dec-22 16-Jan-23, PFab 1-Line 2 - Electrical E 14-Dec-22 08-Jan-23, PFab 1-Line 2 - Electrical Heat Tr 10-Dec-22 16-Jan-23, PFab 1-Line 2 - Electrical Heat Tr 18-Dec-22 16-Jan-23, PFab 1-Line 2 - Instrument 18-Dec-22 08-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-22 17-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-22 17-Jan-23, PFab 1-Line 2 - Instrument</td></td<>	13-Oct-22         13-Oct-22         05-Nov-22         14-Nov-22         19-Nov-22         19-Nov-22         05-Nov-22         07-Nov-22         19-Nov-22         19-Nov-22         19-Nov-22         19-Nov-22         19-Nov-22         19-Nov-22         11-Nov-22         11-Nov-22         10-Nov-22         20-Dec-22         30-Nov-22         30-Dec-22         30-Dec-22         30-Dec-22         29-Jan-23         29-Jan-23         20-Dec-22	58 -58 -58 -58 -58 -58 -58 -58 -58 -58			PFab 1-Line 2 - E&I Support Installation, 02- PFab 1-Line 2 - E&I Cable Ladder E 18-Dec-22 16-Jan-23, PFab 1-Line 2 - Electrical E 14-Dec-22 08-Jan-23, PFab 1-Line 2 - Electrical Heat Tr 10-Dec-22 16-Jan-23, PFab 1-Line 2 - Electrical Heat Tr 18-Dec-22 16-Jan-23, PFab 1-Line 2 - Instrument 18-Dec-22 08-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-22 17-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-22 17-Jan-23, PFab 1-Line 2 - Instrument
E&I Installation           06-TPU-2-1250         PFab 1-Line 2 - E&I 5           06-TPU-2-1260         PFab 1-Line 2 - E&I 6           06-TPU-2-1270         PFab 1-Line 2 - Elect           06-TPU-2-1280         PFab 1-Line 2 - Elect           06-TPU-2-1280         PFab 1-Line 2 - Elect           06-TPU-2-1300         PFab 1-Line 2 - Instrument           06-TPU-2-1010         PFab 1-Line 2 - Instrument           06-TPU-2-1020         PFab 1-Line 2 - Instrument           06-TPU-2-1030         PFab 1-Line 2 - Load           Delivery         06-TPU-2-1030           06-TPU-2-1030         PFab 1-Line 2 - Deliv           PFab 1-Line 3         Tertian           Structure Fabrication         06-TPU-3-1100           06-TPU-3-1100         PFab 1-Line 3 - Mech           06-TPU-3-1100         PFab 1-Line 3 - Mech           06-TPU-3-1100         PFab 1-Line 3 - Mech           06-TPU-3-1120         PFab 1-Line 3 - Mech           06-T	Support Installation Cable Ladder Erection etrical Cable Pulling and Term ination etrical Equipment Installation etrical Heat Tracing Installation croom installation rument Cable Pulling and Termination rument Cable Pulling and Termination rument Equipment Installation rument Equipment Installation rument Tubing Ins tallation lation commissioning d out & ready to ship very ary Structure Fabrication Floor(EL37.72m ~ EL47.22m) Primary & Secondary Steel Structure Erection Floor(EL47.22m ~ EL54.47m) Prim ary & Secondary Steel Structure Erection Floor(EL47.22m ~ EL54.47m) Prim ary & Secondary Steel Structure Erection ary Structure Fabrication hanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) hanical Installation - 3rd Floor(EL27.72m ~ EL47.22m) (Including Boiler Ash Transport) hanical Installation - 4th Floor(EL37.72m ~ EL47.22m) (Including Air Ducts)	109           45           45           40           30           26           26           26           26           26           30           26           26           30           26           30           26           30           26           30           26           30           26           30           26           30           26           30           150           51           51           20           20           20           20           20           20           320           335           12           39           90           319           80           80	48 34 38 40 30 26 26 26 34 30 26 26 48 48 51 51 20 20 10 10 136 20 20 10 136 20 20 10 136 20 20 10 10 136 20 20 10 10 20 20 10 10 20 20 20 10 10 20 20 20 20 20 20 20 20 20 2	24.449 15.569 09 09 09 09 09 09 09 09 09 09 09 09 09	09-Sep-22 A           08-Dec-22 A           18-Dec-22           14-Dec-22           14-Dec-22           14-Dec-22           14-Dec-22           22-May-22           08-Dec-22           28-Jan-23           17-Feb-23           17-Feb-23           26-Nov-20 A           26-Nov-20 A           26-Nov-20 A           30-Aug-22 A           30-Aug-22 A           31-Jul-22 A           31-Jul-22 A	16-Jan-23           02-Jan-23           11-Jan-23           16-Jan-23           08-Jan-23           02-Jan-23           04-Jan-23           04-Jan-23           04-Jan-23           04-Jan-23           04-Jan-23           16-Jan-23           16-Jan-23           08-Jan-23           08-Jan-23           16-Jan-23           16-Jan-23           16-Jan-23           16-Jan-23           16-Jan-23           16-Jan-23           16-Jan-23           16-Fab-23           16-Feb-23           26-Feb-23           26-Feb-23           19-Dec-22           19-Dec-22           04-Dec-22           14-Apr-23	03-Oct-22           03-Oct-22           03-Oct-22           08-Oct-22           11-Oct-22           11-Oct-22           11-Oct-22           11-Oct-22           11-Oct-22           11-Oct-22           11-Oct-22           11-Oct-22           11-Oct-22           17-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           01-Dec-22           11-Oct-22           11-Oct-22           01-Dec-22           21-Dec-22           10-Jan-23           16-Oct-22           16-Oct-22 <td< td=""><td>19-Nov-22           05-Nov-22           14-Nov-22           19-Nov-22           19-Nov-22           11-Nov-22           05-Nov-22           07-Nov-22           19-Nov-22           19-Nov-22           19-Nov-22           19-Nov-22           19-Nov-22           11-Nov-22           11-Nov-22           19-Nov-22           30-Nov-22           20-Dec-22           30-Nov-22           30-Nov-22           20-Dec-22           30-Dec-22           30-Dec-22           30-Dec-22           30-Dec-22           30-Dec-22           30-Jan-23           29-Jan-23           29-Jan-23           20-Dec-22</td><td>-58 -58 -58 -58 -58 -58 -58 -58 -58 -58</td><td></td><td></td><td>PFab 1-Line 2 - E&amp;I Support Installation, 02- PFab 1-Line 2 - E&amp;I Cable Ladder E 18-Dec-22 16-Jan-23, PFab 1-Line 2 - Electrical E 14-Dec-22 08-Jan-23, PFab 1-Line 2 - Electrical Heat Tr 10-Dec-22 16-Jan-23, PFab 1-Line 2 - Electrical Heat Tr 18-Dec-22 16-Jan-23, PFab 1-Line 2 - Instrument 18-Dec-22 08-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-22 17-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-22 17-Jan-23, PFab 1-Line 2 - Instrument</td></td<>	19-Nov-22           05-Nov-22           14-Nov-22           19-Nov-22           19-Nov-22           11-Nov-22           05-Nov-22           07-Nov-22           19-Nov-22           19-Nov-22           19-Nov-22           19-Nov-22           19-Nov-22           11-Nov-22           11-Nov-22           19-Nov-22           30-Nov-22           20-Dec-22           30-Nov-22           30-Nov-22           20-Dec-22           30-Dec-22           30-Dec-22           30-Dec-22           30-Dec-22           30-Dec-22           30-Jan-23           29-Jan-23           29-Jan-23           20-Dec-22	-58 -58 -58 -58 -58 -58 -58 -58 -58 -58			PFab 1-Line 2 - E&I Support Installation, 02- PFab 1-Line 2 - E&I Cable Ladder E 18-Dec-22 16-Jan-23, PFab 1-Line 2 - Electrical E 14-Dec-22 08-Jan-23, PFab 1-Line 2 - Electrical Heat Tr 10-Dec-22 16-Jan-23, PFab 1-Line 2 - Electrical Heat Tr 18-Dec-22 16-Jan-23, PFab 1-Line 2 - Instrument 18-Dec-22 08-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-22 17-Jan-23, PFab 1-Line 2 - Instrument 14-Dec-22 17-Jan-23, PFab 1-Line 2 - Instrument
06-TPU-2-1250         PFab 1-Line 2 - E&I 3           06-TPU-2-1260         PFab 1-Line 2 - Elect           06-TPU-2-1270         PFab 1-Line 2 - Elect           06-TPU-2-1280         PFab 1-Line 2 - Elect           06-TPU-2-1280         PFab 1-Line 2 - Elect           06-TPU-2-1300         PFab 1-Line 2 - Instrument           06-TPU-2-1300         PFab 1-Line 2 - Instru           06-TPU-2-1300         PFab 1-Line 2 - Load           Delivery         0           06-TPU-2-1300         PFab 1-Line 2 - Deliv           PFab 1-Line 3         PFab 1-Line 3 - Tertia           Structure Fabrication         0           06-TPU-3-110         PFab 1-Line 3 - Tertia           Structure Fabrication         0           06-TPU-3-1100         PFab 1-Line 3 - Mech           06-TPU-3-1100         PFab 1-Line 3 - Mech           06-TPU-3-1120         PFab 1-Line 3 - Mech           06-TPU-3-1120 <td>And a secondary steel Structure Erection Provery Provide Lander Erection Provent Installation Provent Cable Pulling and Termination Provent Installation Provent Installation Provent Cable Pulling and Termination Provent Installation Provent Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) Phanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Boiler Ash Transport) Phanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)</td> <td>45       40       30       26       26       26       26       26       30       26       30       26       30       26       30       26       30       26       150       51       51       51       20       20       10       30       10       30       31       31       30       31       30       31       30       31       30       30       31       30       30       31       30       30       31       30       30       30       30       31       30       30       30       30       30       30       30       31       30       30       30       30       31       30       30       30   <td>38 40 30 26 25 34 30 26 26 26 48 48 51 51 51 20 20 20 10 10 10 10 51 20 20 20 10 11 51 20 20 20 10 11 6 20 20 10 11 10 12 5 5 12 20 20 10 10 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 20 20 20 20 20 20 20 20 20 20 20 20</td><td>15.569 09 09 09 09 09 09 09 09 09 0</td><td>99-Sep-22 A           99-Sep-22 A           924-Oct-22 A           98-Dec-22           18-Dec-22           14-Dec-22           22-May-22           08-Dec-22           28-Jan-23           17-Feb-23           17-Feb-23           26-Nov-20 A           27-Nov-20 A           28-Jan-23           28-Jan-23           28-Jan-23           28-Jan-23      28-Jan-23</td><td>02-Jan-23           11-Jan-23           16-Jan-23           08-Jan-23           02-Jan-23           04-Jan-23           04-Jan-23           04-Jan-23           04-Jan-23           06-Jan-23           08-Jan-23           16-Jan-23           08-Jan-23           08-Jan-23           16-Jan-23           16-Jan-23           16-Jan-23           16-Jan-23           16-Jan-23           16-Jan-23           16-Jan-23           27-Jan-23           16-Feb-23           16-Feb-23           26-Feb-23           26-Feb-23           19-Dec-22           19-Dec-22           04-Dec-22           11-Dec-22</td><td>03-Oct-22           08-Oct-22           21-Oct-22           21-Oct-22           11-Oct-22           11-Oct-22           11-Oct-22           11-Oct-22           11-Oct-22           11-Oct-22           11-Oct-22           11-Oct-22           17-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           01-Dec-22           01-Dec-22           21-Dec-22           16-Oct-22           10-Jan-23           16-Oct-22           21-Oct-22           22-Oct-22</td><td>05-Nov-22           14-Nov-22           19-Nov-22           19-Nov-22           05-Nov-22           07-Nov-22           19-Nov-22           19-Nov-22           19-Nov-22           19-Nov-22           19-Nov-22           19-Nov-22           19-Nov-22           10-Nov-22           10-Nov-22           10-Nov-22           10-Nov-22           10-Nov-22           10-Nov-22           10-Nov-22           20-Dec-22           30-Nov-22           20-Dec-22           30-Dec-22           30-Dec-22           30-Dec-22           30-Dec-22           30-Dec-22           30-Dec-22           30-Dec-22           30-Dec-22           30-Dec-23           29-Jan-23           29-Jan-23           29-Jan-23           20-Oct-22</td><td>58 -58 -58 -58 -58 -58 -58 -58 -58 -58</td><td></td><td></td><td>PFab 1-Line 2 - E&amp;I Cable Ladder E           18-Dec-22         16-Jan-23, PFab 1-Line 2 - Electrical E           14-Dec-22         08-Jan-23, PFab 1-Line 2 - Electrical Heat Tr           11-Dec-22*         02-Jan-23, PFab 1-Line 2 - Electrical Heat Tr           11-Dec-22*         04-Jan-23, PFab 1-Line 2 - MCC room inst           18-Dec-22         04-Jan-23, PFab 1-Line 2 - Instrument           14-Dec-22         08-Jan-23, PFab 1-Line 2 - Insulation, 16-           PFab 1-Line 2 - Insulation, 16-         28-Jan-23           28-Jan-23         17-Feb-23</td></td>	And a secondary steel Structure Erection Provery Provide Lander Erection Provent Installation Provent Cable Pulling and Termination Provent Installation Provent Installation Provent Cable Pulling and Termination Provent Installation Provent Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) Phanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Boiler Ash Transport) Phanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	45       40       30       26       26       26       26       26       30       26       30       26       30       26       30       26       30       26       150       51       51       51       20       20       10       30       10       30       31       31       30       31       30       31       30       31       30       30       31       30       30       31       30       30       31       30       30       30       30       31       30       30       30       30       30       30       30       31       30       30       30       30       31       30       30       30 <td>38 40 30 26 25 34 30 26 26 26 48 48 51 51 51 20 20 20 10 10 10 10 51 20 20 20 10 11 51 20 20 20 10 11 6 20 20 10 11 10 12 5 5 12 20 20 10 10 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 20 20 20 20 20 20 20 20 20 20 20 20</td> <td>15.569 09 09 09 09 09 09 09 09 09 0</td> <td>99-Sep-22 A           99-Sep-22 A           924-Oct-22 A           98-Dec-22           18-Dec-22           14-Dec-22           22-May-22           08-Dec-22           28-Jan-23           17-Feb-23           17-Feb-23           26-Nov-20 A           27-Nov-20 A           28-Jan-23           28-Jan-23           28-Jan-23           28-Jan-23      28-Jan-23</td> <td>02-Jan-23           11-Jan-23           16-Jan-23           08-Jan-23           02-Jan-23           04-Jan-23           04-Jan-23           04-Jan-23           04-Jan-23           06-Jan-23           08-Jan-23           16-Jan-23           08-Jan-23           08-Jan-23           16-Jan-23           16-Jan-23           16-Jan-23           16-Jan-23           16-Jan-23           16-Jan-23           16-Jan-23           27-Jan-23           16-Feb-23           16-Feb-23           26-Feb-23           26-Feb-23           19-Dec-22           19-Dec-22           04-Dec-22           11-Dec-22</td> <td>03-Oct-22           08-Oct-22           21-Oct-22           21-Oct-22           11-Oct-22           11-Oct-22           11-Oct-22           11-Oct-22           11-Oct-22           11-Oct-22           11-Oct-22           11-Oct-22           17-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           01-Dec-22           01-Dec-22           21-Dec-22           16-Oct-22           10-Jan-23           16-Oct-22           21-Oct-22           22-Oct-22</td> <td>05-Nov-22           14-Nov-22           19-Nov-22           19-Nov-22           05-Nov-22           07-Nov-22           19-Nov-22           19-Nov-22           19-Nov-22           19-Nov-22           19-Nov-22           19-Nov-22           19-Nov-22           10-Nov-22           10-Nov-22           10-Nov-22           10-Nov-22           10-Nov-22           10-Nov-22           10-Nov-22           20-Dec-22           30-Nov-22           20-Dec-22           30-Dec-22           30-Dec-22           30-Dec-22           30-Dec-22           30-Dec-22           30-Dec-22           30-Dec-22           30-Dec-22           30-Dec-23           29-Jan-23           29-Jan-23           29-Jan-23           20-Oct-22</td> <td>58 -58 -58 -58 -58 -58 -58 -58 -58 -58</td> <td></td> <td></td> <td>PFab 1-Line 2 - E&amp;I Cable Ladder E           18-Dec-22         16-Jan-23, PFab 1-Line 2 - Electrical E           14-Dec-22         08-Jan-23, PFab 1-Line 2 - Electrical Heat Tr           11-Dec-22*         02-Jan-23, PFab 1-Line 2 - Electrical Heat Tr           11-Dec-22*         04-Jan-23, PFab 1-Line 2 - MCC room inst           18-Dec-22         04-Jan-23, PFab 1-Line 2 - Instrument           14-Dec-22         08-Jan-23, PFab 1-Line 2 - Insulation, 16-           PFab 1-Line 2 - Insulation, 16-         28-Jan-23           28-Jan-23         17-Feb-23</td>	38 40 30 26 25 34 30 26 26 26 48 48 51 51 51 20 20 20 10 10 10 10 51 20 20 20 10 11 51 20 20 20 10 11 6 20 20 10 11 10 12 5 5 12 20 20 10 10 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 20 20 20 20 20 20 20 20 20 20 20 20	15.569 09 09 09 09 09 09 09 09 09 0	99-Sep-22 A           99-Sep-22 A           924-Oct-22 A           98-Dec-22           18-Dec-22           14-Dec-22           22-May-22           08-Dec-22           28-Jan-23           17-Feb-23           17-Feb-23           26-Nov-20 A           27-Nov-20 A           28-Jan-23           28-Jan-23           28-Jan-23           28-Jan-23      28-Jan-23	02-Jan-23           11-Jan-23           16-Jan-23           08-Jan-23           02-Jan-23           04-Jan-23           04-Jan-23           04-Jan-23           04-Jan-23           06-Jan-23           08-Jan-23           16-Jan-23           08-Jan-23           08-Jan-23           16-Jan-23           16-Jan-23           16-Jan-23           16-Jan-23           16-Jan-23           16-Jan-23           16-Jan-23           27-Jan-23           16-Feb-23           16-Feb-23           26-Feb-23           26-Feb-23           19-Dec-22           19-Dec-22           04-Dec-22           11-Dec-22	03-Oct-22           08-Oct-22           21-Oct-22           21-Oct-22           11-Oct-22           11-Oct-22           11-Oct-22           11-Oct-22           11-Oct-22           11-Oct-22           11-Oct-22           11-Oct-22           17-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           03-Oct-22           01-Dec-22           01-Dec-22           21-Dec-22           16-Oct-22           10-Jan-23           16-Oct-22           21-Oct-22           22-Oct-22	05-Nov-22           14-Nov-22           19-Nov-22           19-Nov-22           05-Nov-22           07-Nov-22           19-Nov-22           19-Nov-22           19-Nov-22           19-Nov-22           19-Nov-22           19-Nov-22           19-Nov-22           10-Nov-22           10-Nov-22           10-Nov-22           10-Nov-22           10-Nov-22           10-Nov-22           10-Nov-22           20-Dec-22           30-Nov-22           20-Dec-22           30-Dec-22           30-Dec-22           30-Dec-22           30-Dec-22           30-Dec-22           30-Dec-22           30-Dec-22           30-Dec-22           30-Dec-23           29-Jan-23           29-Jan-23           29-Jan-23           20-Oct-22	58 -58 -58 -58 -58 -58 -58 -58 -58 -58			PFab 1-Line 2 - E&I Cable Ladder E           18-Dec-22         16-Jan-23, PFab 1-Line 2 - Electrical E           14-Dec-22         08-Jan-23, PFab 1-Line 2 - Electrical Heat Tr           11-Dec-22*         02-Jan-23, PFab 1-Line 2 - Electrical Heat Tr           11-Dec-22*         04-Jan-23, PFab 1-Line 2 - MCC room inst           18-Dec-22         04-Jan-23, PFab 1-Line 2 - Instrument           14-Dec-22         08-Jan-23, PFab 1-Line 2 - Insulation, 16-           PFab 1-Line 2 - Insulation, 16-         28-Jan-23           28-Jan-23         17-Feb-23
06-TPU-2-1260         PFab 1-Line 2 - E&I (IIII)           06-TPU-2-1270         PFab 1-Line 2 - Elect           06-TPU-2-1280         PFab 1-Line 2 - Elect           06-TPU-2-1280         PFab 1-Line 2 - Elect           06-TPU-2-130         PFab 1-Line 2 - Instru-           06-TPU-2-130         PFab 1-Line 2 - Instru-           06-TPU-2-1310         PFab 1-Line 2 - Instru-           06-TPU-2-1310         PFab 1-Line 2 - Instru-           06-TPU-2-1320         PFab 1-Line 2 - Instru-           06-TPU-2-1010         PFab 1-Line 2 - Instru-           06-TPU-2-1020         PFab 1-Line 2 - Instru-           06-TPU-2-1020         PFab 1-Line 2 - Instru-           06-TPU-2-1030         PFab 1-Line 2 - Deliv           Pecommissioning         0           06-TPU-2-1030         PFab 1-Line 2 - Deliv           PFab 1-Line 3         Structure Fabrication           06-TPU-2-1340         PFab 1-Line 3 - Tertia           Structure Fabrication         0           06-TPU-3-110         PFab 1-Line 3 - Mech           06-TPU-3-1100         PFab 1-Line 3 - Mech           06-TPU-3-1100         PFab 1-Line 3 - Mech           06-TPU-3-1120         PFab 1-Line 3 - Mech           06-TPU-3-1120         PFab 1-Line 3 - Mech	And a secondary steel Structure Erection Provery Provide Lander Erection Provent Installation Provent Cable Pulling and Termination Provent Installation Provent Installation Provent Cable Pulling and Termination Provent Installation Provent Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) Phanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Boiler Ash Transport) Phanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	45         40         30         26         26         25         34         30         25         34         30         26         26         26         26         26         26         30         26         26         26         26         26         26         150         51         51         51         20         20         20         20         20         20         33         10         33         12         39         90         319         80         80         80	38 40 30 26 25 34 30 26 26 26 48 48 51 51 51 20 20 20 10 10 10 10 51 20 20 20 10 11 51 20 20 20 10 11 6 20 20 10 11 10 12 5 5 12 20 20 10 10 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 10 20 20 20 20 20 20 20 20 20 20 20 20 20	15.569 09 09 09 09 09 09 09 09 09 0	9         24-Oct-22 A           08-Dec-22         18-Dec-22           14-Dec-22         14-Dec-22           14-Dec-22*         14-Dec-22*           14-Dec-22         14-Dec-22           14-Dec-22         14-Dec-22           14-Dec-22         14-Dec-22           14-Dec-22         14-Dec-22           14-Dec-22         22-May-22           22-May-22         08-Dec-22           28-Jan-23         17-Feb-23           17-Feb-23         26-Nov-20 A           26-Nov-20 A         26-Nov-20 A           26-Nov-20 A         11-Jul-22 A           03-Aug-22 A         03-Aug-22 A           14-Jan-22 A         11-Jul-22 A	11-Jan-23         16-Jan-23         08-Jan-23         02-Jan-23         04-Jan-23         16-Jan-23         16-Jan-23         08-Jan-23         08-Jan-23         08-Jan-23         08-Jan-23         08-Jan-23         16-Jan-23         16-Jan-23         27-Jan-23         16-Feb-23         26-Feb-23         26-Feb-23         19-Dec-22         19-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22	08-Oct-22           11-Oct-22           11-Oct-22           17-Oct-22           11-Oct-22           14-Oct-22           17-Oct-22           17-Oct-22           17-Oct-22           17-Oct-22           17-Oct-22           17-Oct-22           03-Oct-22           03-Oct-22           01-Dec-22           01-Dec-22           11-Oct-22           01-Dec-22           10-Jan-23           10-Jan-23           16-Oct-22           21-Oct-22           22-Oct-22	14-Nov-22           19-Nov-22           19-Nov-22           11-Nov-22           05-Nov-22           19-Nov-22           30-Nov-22           20-Dec-22           30-Dec-22           30-Dec-22           29-Jan-23           29-Jan-23           20-Oct-22	-58 -58 -58 -58 -58 -58 -58 -58 -58 -58			PFab 1-Line 2 - E&I Cable Ladder E           18-Dec-22         16-Jan-23, PFab 1-Line 2 - Electrical E           14-Dec-22         08-Jan-23, PFab 1-Line 2 - Electrical Heat Tr           11-Dec-22*         02-Jan-23, PFab 1-Line 2 - Electrical Heat Tr           11-Dec-22*         04-Jan-23, PFab 1-Line 2 - MCC room inst           18-Dec-22         04-Jan-23, PFab 1-Line 2 - Instrument           14-Dec-22         08-Jan-23, PFab 1-Line 2 - Insulation, 16-Jan-23, PFab 1-Line 2 - Insulation, 16-J
Electrical           06-TPU-2-1270         PFab 1-Line 2 - Elect           06-TPU-2-1280         PFab 1-Line 2 - Elect           06-TPU-2-1330         PFab 1-Line 2 - Elect           06-TPU-2-1330         PFab 1-Line 2 - Instr           06-TPU-2-1330         PFab 1-Line 2 - Instr           06-TPU-2-1310         PFab 1-Line 2 - Instr           06-TPU-2-1310         PFab 1-Line 2 - Instr           06-TPU-2-1010         PFab 1-Line 2 - Instr           06-TPU-2-1010         PFab 1-Line 2 - Instr           06-TPU-2-1020         PFab 1-Line 2 - Instr           06-TPU-2-1030         PFab 1-Line 2 - Deliv           06-TPU-2-1030         PFab 1-Line 2 - Deliv           Pecommissioning         0           06-TPU-2-1340         PFab 1-Line 3 - Tertia           Structure Fabrication         0           06-TPU-3-110         PFab 1-Line 3 - Mech           06-TPU-3-1100         PFab 1-Line 3 - Mech           06-TPU-3-1100         PFab 1-Line 3 - Mech           06-TPU-3-1100         PFab 1-Line 3 - Mech           06-TPU-3-1120         PFab 1-Line 3 - Mech           06-TPU-3-1120         PFab 1-Line 3 - Mech           06-TPU-3-120         PFab 1-Line 3 - Mech           06-TPU-3-120         PFab 1-Line 3 - Mech	etrical Cable Pulling and Term ination etrical Equipment Installation etrical Heat Tracing Installation C room installation rument Cable Pulling and Termination rument Equipment Installation rument Equipment Installation rument Tubing Installation lation d out & ready to ship very ary Structure Fabrication Floor(EL37.72m~EL47.22m) Primary & Secondary Steel Structure Erection Floor(EL47.22m~EL54.47m) Prim ary & Secondary Steel Structure Erection Floor(EL47.22m~EL54.47m) Prim ary & Secondary Steel Structure Erection ary Structure Fabrication hanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) hanical Installation - 3rd Floor(EL26.72m~EL47.22m) (Including Boiler Ash Transport) hanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	40         30         26         26         25         34         30         25         34         30         26         26         26         26         26         150         51         51         20         20         20         20         20         20         20         20         34         200         10         634         200         10         339         90         319         80         80	300 226 225 34 30 226 48 48 51 51 51 20 20 10 10 10 10 136 20 20 20 20 10 110 136 20 20 20 20 10 110 136 20 20 20 10 110 136 20 10 10 10 10 10 10 10 10 10 10 10 10 10	09 09 09 09 09 09 09 09 09 09 09 09 09 0	08-Dec-22           18-Dec-22           14-Dec-22           08-Dec-22*           14-Dec-22           14-Dec-22*           14-Dec-22           14-Dec-22           14-Dec-22           14-Dec-22           24-Dec-22           24-Dec-22           25-May-22           08-Dec-22           28-Jan-23           17-Feb-23           17-Feb-23           26-Nov-20 A           26-Nov-20 A           26-Nov-20 A           30-Aug-22 A           30-Aug-22 A           31-Jul-22 A           31-Jul-22 A           31-Jul-22 A           31-Jul-22 A           31-Jul-22 A	16-Jan-23           16-Jan-23           08-Jan-23           04-Jan-23           04-Jan-23           16-Jan-23           08-Jan-23           08-Jan-23           08-Jan-23           08-Jan-23           16-Jan-23           16-Jan-23           27-Jan-23           16-Feb-23           26-Feb-23           26-Feb-23           19-Dec-22           19-Dec-22           04-Dec-22           04-Dec-22           04-Dec-22	11-Oct-22           21-Oct-22           17-Oct-22           11-Oct-22           14-Oct-22           17-Oct-22           17-Oct-22           17-Oct-22           17-Oct-22           03-Oct-22           11-Oct-22           11-Oct-22           03-Oct-22           11-Oct-22           01-Dec-22           01-Dec-22           21-Dec-22           10-Jan-23           16-Oct-22           16-Oct-22           22-Oct-22	19-Nov-22           19-Nov-22           19-Nov-22           11-Nov-22           05-Nov-22           19-Nov-22           19-Nov-22           19-Nov-22           19-Nov-22           19-Nov-22           19-Nov-22           19-Nov-22           19-Nov-22           19-Nov-22           30-Nov-22           20-Dec-22           30-Dec-22           30-Dec-22           29-Jan-23           29-Jan-23           20-Oct-22	-58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -58         -			18-Dec-22       16-Jan-23, PFab 1-Line 2 - Electrical E         14-Dec-22       08-Jan-23, PFab 1-Line 2 - Electrical Heat Tr         Dec-22*       02-Jan-23, PFab 1-Line 2 - Electrical Heat Tr         11-Dec-22*       04-Jan-23, PFab 1-Line 2 - MCC room inst         18-Dec-22       16-Jan-23, PFab 1-Line 2 - Instrument         14-Dec-22       08-Jan-23, PFab 1-Line 2 - Instrument         14-Dec-22       02-Dec-22       27-Jan-23, PFab 1-Line 2 - Instrument         17-Feb-23       17-Feb-23       17-Feb-23
06-TPU-2-1280         PFab 1-Line 2 - Elect           06-TPU-2-1330         PFab 1-Line 2 - MCC           Instrument         PFab 1-Line 2 - Instru           06-TPU-2-1330         PFab 1-Line 2 - Instru           06-TPU-2-1310         PFab 1-Line 2 - Instru           06-TPU-2-1320         PFab 1-Line 2 - Instru           06-TPU-2-1320         PFab 1-Line 2 - Instru           06-TPU-2-1010         PFab 1-Line 2 - Instru           06-TPU-2-1020         PFab 1-Line 2 - Pre-or           Load out & Shipping         06-TPU-2-1030           06-TPU-2-1340         PFab 1-Line 2 - Deliv           PFab 1-Line 3         Structure Fabrication           06-TPU-3-1340         PFab 1-Line 3 - Tertia           Structure Fabrication         06-TPU-3-1100           06-TPU-3-1100         PFab 1-Line 3 - Mech           06-TPU-3-1100         PFab 1-Line 3 - Mech           06-TPU-3-1120         PFab 1-Line 3 - Mech           06-TPU-3-1120         PFab 1-Line 3 - Mech           06-TPU-3-1120         PFab 1-Line 3 - Mech           06-TPU-3-120         PFab 1-Line 3 - Mech           06-TPU-3-120         PFab 1-Line 3 - Mech           06-TPU-3-120         PFab 1-Line 3 - Mech           06-TPU-3-1200         PFab 1-Line 3 - Mech	trical Equipment Installation trical Heat Tracing Installation croom installation rument Cable Pulling and Termination rument Equipment Installation rument Tubing Installation lation lation dout & ready to ship very ary Structure Fabrication Floor(EL37.72m~EL47.22m) Primary & Secondary Steel Structure Erection Floor(EL47.22m~ EL54.47m) Prim ary & Secondary Steel Structure Erection ary Structure Fredorication hanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) hanical Installation - 3rd Floor(EL26.72m~EL47.22m) (Including Boiler Ash Transport) hanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	26       25       34       30       26       26       26       26       26       150       150       51       20       20       20       20       310       320       331       339       39       30       319       80       80	226 225 34 30 226 48 48 48 51 51 20 20 10 10 10 10 136 20 20 20 20 5 5 12 27 5 12 27 44	099 099 099 099 099 099 099 099 099 099	i       14-Dec-22         i       08-Dec-22*         i       11-Dec-22*         i       14-Dec-22         i       14-Dec-22         i       14-Dec-22         i       14-Dec-22         i       14-Dec-22         i       22-May-22         i       08-Dec-22         i       26-Nov-20 A         i       03-Aug-22 A         i       03-Aug-22 A	08-Jan-23           02-Jan-23           04-Jan-23           16-Jan-23           08-Jan-23           08-Jan-23           08-Jan-23           16-Jan-23           16-Jan-23           16-Jan-23           16-Jan-23           16-Jan-23           16-Jan-23           27-Jan-23           16-Feb-23           26-Feb-23           26-Feb-23           19-Dec-22           19-Dec-22           04-Dec-22           11-Dec-22           11-Dec-22	17-Oct-22           11-Oct-22           11-Oct-22           14-Oct-22           17-Oct-22           17-Oct-22           03-Oct-22           03-Oct-22           11-Oct-22           10-Jan-23           10-Oct-22           16-Oct-22           16-Oct-22 <td< td=""><td>11-Nov-22         11-Nov-22         05-Nov-22         19-Nov-22         19-Nov-22         11-Nov-22         19-Nov-22         19-Nov-22         19-Nov-22         20-Doc-22         20-Doc-22         30-Doc-22         30-Doc-22         29-Jan-23         29-Jan-23         20-Oct-22</td><td>-58 -58 -58 -58 -58 -58 -58 -58 -58 -58</td><td></td><td></td><td>14-Dec-22       08-Jan-23, PFab 1-Line 2 - Electrical Heat Tr         Dec-22*       02-Jan-23, PFab 1-Line 2 - MCC room inst         11-Dec-22*       04-Jan-23, PFab 1-Line 2 - MCC room inst         18-Dec-22       16-Jan-23, PFab 1-Line 2 - Instrument         14-Dec-22       08-Jan-23, PFab 1-Line 2 - Insulation, 16-Jan-23, PFab 1-Line 2 - Insulation, 16-Jan-24, Jan-23, PFab 1-Line 2 - Insulation, 16-Jan-24, Jan-23, PFab 1-Line 2 - Insulation, 16-Jan-24, Jan-24, Jan-23, PFab 1-Line 2 - Insulation, 16-Jan-24, Jan-24, J</td></td<>	11-Nov-22         11-Nov-22         05-Nov-22         19-Nov-22         19-Nov-22         11-Nov-22         19-Nov-22         19-Nov-22         19-Nov-22         20-Doc-22         20-Doc-22         30-Doc-22         30-Doc-22         29-Jan-23         29-Jan-23         20-Oct-22	-58 -58 -58 -58 -58 -58 -58 -58 -58 -58			14-Dec-22       08-Jan-23, PFab 1-Line 2 - Electrical Heat Tr         Dec-22*       02-Jan-23, PFab 1-Line 2 - MCC room inst         11-Dec-22*       04-Jan-23, PFab 1-Line 2 - MCC room inst         18-Dec-22       16-Jan-23, PFab 1-Line 2 - Instrument         14-Dec-22       08-Jan-23, PFab 1-Line 2 - Insulation, 16-Jan-23, PFab 1-Line 2 - Insulation, 16-Jan-24, Jan-23, PFab 1-Line 2 - Insulation, 16-Jan-24, Jan-23, PFab 1-Line 2 - Insulation, 16-Jan-24, Jan-24, Jan-23, PFab 1-Line 2 - Insulation, 16-Jan-24, Jan-24, J
06-TPU-2-1290         PFab 1-Line 2 - Elect           06-TPU-2-1330         PFab 1-Line 2 - MCC           Instrument         06-TPU-2-1300           06-TPU-2-1310         PFab 1-Line 2 - Instru           06-TPU-2-1320         PFab 1-Line 2 - Instru           06-TPU-2-1320         PFab 1-Line 2 - Instru           06-TPU-2-1320         PFab 1-Line 2 - Instru           06-TPU-2-1020         PFab 1-Line 2 - Instru           06-TPU-2-1020         PFab 1-Line 2 - Deliv           Precommissioning         06-TPU-2-1030           06-TPU-2-1030         PFab 1-Line 2 - Deliv           PFab 1-Line 3         Total 4 Shipping           06-TPU-2-1030         PFab 1-Line 2 - Deliv           PFab 1-Line 3         Total 4 Shipping           06-TPU-3-1030         PFab 1-Line 3 - Tertia           Structure Fabrication         06-TPU-3-1100           06-TPU-3-1080         PFab 1-Line 3 - Mech           06-TPU-3-1100         PFab 1-Line 3 - Mech           06-TPU-3-1120         PFab 1-Line 3 - Mech           06-TPU-3-1120         PFab 1-Line 3 - Mech           06-TPU-3-1120         PFab 1-Line 3 - Mech           06-TPU-3-120         PFab 1-Line 3 - Mech           06-TPU-3-120         PFab 1-Line 3 - Mech           06-TPU-	trical Heat Tracing Installation Croom installation	26         25         34         30         26         26         26         150         51         20         20         20         20         20         20         20         20         20         10         634         200         135         12         39         90         319         80         80	226 225 34 30 26 26 48 48 51 51 20 20 20 20 20 20 20 20 27 5 5 12 27 44	099 099 099 099 099 099 099 099 099 099	08-Dec-22*           11-Dec-22*           14-Dec-22*           14-Dec-22*           14-Dec-22*           14-Dec-22*           24-Dec-22*           22-May-22*           08-Dec-22*           08-Dec-22*           28-Jan-23*           17-Feb-23*           17-Feb-23*           26-Nov-20 A           26-Nov-20 A           26-Nov-20 A           11-Jul-22 A           03-Aug-22 A           14-Jan-22 A           14-Jan-22 A	02-Jan-23           04-Jan-23           16-Jan-23           08-Jan-23           08-Jan-23           16-Jan-23           16-Jan-23           16-Jan-23           27-Jan-23           27-Jan-23           26-Feb-23           26-Feb-23           214-Apr-23           26-Feb-23           19-Dec-22           19-Dec-22           04-Dec-22           04-Dec-22           04-Dec-22           04-Dec-22           04-Dec-22           04-Dec-22           04-Dec-22	11-Oct-22         14-Oct-22         14-Oct-22         17-Oct-22         17-Oct-22         03-Oct-22         03-Oct-22         11-Oct-22         11-Oct-22         11-Oct-22         11-Oct-22         11-Oct-22         11-Oct-22         11-Oct-22         11-Oct-22         11-Oct-22         10-Dec-22         10-Dec-22         10-Jan-23         10-Jan-23         16-Oct-22         16-Oct-22         22-Oct-22	05-Nov-22           07-Nov-22           19-Nov-22           19-Nov-22           11-Nov-22           19-Nov-22           19-Nov-22           30-Nov-22           30-Nov-22           20-Dec-22           20-Dec-22           30-Dec-22           30-Dec-22           29-Jan-23           29-Jan-23           20-Oct-22	-58 -58 -58 -58 -58 -58 -58 -58 -58 -58			Dec-22*         02-Jan-23, PFab 1-Line 2 - Electrical Heat Tr           11-Dec-22*         04-Jan-23, PFab 1-Line 2 - MCC room instr           18-Dec-22         16-Jan-23, PFab 1-Line 2 - Instrument           14-Dec-22         08-Jan-23, PFab 1-Line 2 - Insulation, 16-           20-Dec-22         27-Jan-23, PFab 1-Line 2 - Insulation, 16-           28-Jan-23         17-Feb-23
06-TPU-2-1330         PFab 1-Line 2 - MCC           Instrument         PFab 1-Line 2 - Instru           06-TPU-2-1310         PFab 1-Line 2 - Instru           06-TPU-2-1320         PFab 1-Line 2 - Instru           06-TPU-2-1010         PFab 1-Line 2 - Instru           06-TPU-2-1020         PFab 1-Line 2 - Insul           Precommissioning         06-TPU-2-1020           06-TPU-2-1020         PFab 1-Line 2 - Load           Delivery         06-TPU-2-1030           06-TPU-2-1030         PFab 1-Line 2 - Deliv           PFab 1-Line 3         Structure Fabrication           06-TPU-3-110         PFab 1-Line 3 - Tertia           Structure Fabrication         06-TPU-3-1080           06-TPU-3-1090         PFab 1-Line 3 - Tertia           Structure Erection         06-TPU-3-1000           06-TPU-3-1100         PFab 1-Line 3 - Mech           06-TPU-3-1120         PFab 1-Line 3 - Mech           06-TPU-3-120         PFab 1-Line 3 - Mech           06-TPU-3-120         PFab 1-Line 3 - Pipin           Piping	C room installation rument Cable Pulling and Termination rument Equipment Installation rument Tubing Installation lation lation dout & ready to ship very ary Structure Fabrication Floor(EL37.72m~EL47.22m) Primary & Secondary Steel Structure Erection Floor(EL47.22m~ EL54.47m) Prim ary & Secondary Steel Structure Erection ary Structure Erection hanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) hanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Boiler Ash Transport) hanical Installation - 3rd Floor(EL27.72m~EL47.22m) (Including Air Ducts)	25       34       30       26       26       26       150       51       20       20       20       20       20       20       310       320       10       634       200       200       135       12       39       90       319       80       80	25 34 30 26 26 48 48 51 50 20 20 20 20 20 20 20 27 5 5 12 27 44	09 09 09 09 09 09 09 09 09 09 09 09 09 0	i11-Dec-22*           i14-Dec-22*           i8-Dec-22*           i8-Dec-22*           i4-Dec-22*           i4-Dec-22*           i2-May-22*           i8-Dec-22*	04-Jan-23           16-Jan-23           16-Jan-23           08-Jan-23           16-Jan-23           16-Jan-23           16-Jan-23           27-Jan-23           27-Jan-23           16-Feb-23           26-Feb-23           214-Apr-23           19-Dec-22           19-Dec-22           04-Dec-22           04-Dec-22           04-Dec-22           04-Dec-22           04-Dec-22           04-Dec-22           04-Dec-22           04-Dec-22           04-Dec-22	14-Oct-22           17-Oct-22           21-Oct-22           17-Oct-22           03-Oct-22           03-Oct-22           11-Oct-22           01-Dec-22           21-Dec-22           21-Dec-22           10-Dec-22           10-Dec-22           10-Jan-23           10-Oct-22           16-Oct-22           16-Oct-22           22-Oct-22	07-Nov-22           19-Nov-22           19-Nov-22           11-Nov-22           11-Nov-22           19-Nov-22           30-Nov-22           30-Nov-22           20-Dec-22           20-Dec-22           30-Dec-22           30-Dec-22           29-Jan-23           29-Jan-23           20-Oct-22	-58 -58 -58 -58 -58 -58 -58 -58 -58 -58			11-Dec-22*       04-Jan-23, PFab 1-Line 2 - MCC room instrument         18-Dec-22       16-Jan-23, PFab 1-Line 2 - Instrument         14-Dec-22       08-Jan-23, PFab 1-Line 2 - Insulation, 16-         0-Dec-22       27-Jan-23, PFab 1-Line 2 - Insulation, 16-         28-Jan-23       17-Feb-23
Instrument         Prab         1-Line         2 - Instru           06-TPU-2-1310         PFab         1-Line         2 - Instru           06-TPU-2-1320         PFab         1-Line         2 - Instru           06-TPU-2-1010         PFab         1-Line         2 - Instru           06-TPU-2-1020         PFab         1-Line         2 - Insul           Precommissioning         06-TPU-2-1030         PFab         1-Line         2 - Pre-C           Load out & Shipping         06-TPU-2-1030         PFab         1-Line         2 - Delivery           06-TPU-2-1340         PFab         1-Line         2 - Delivery           06-TPU-3-1340         PFab         1-Line         3 - Tertia           Structure Fabrication         06-TPU-3-1110         PFab         1-Line         3 - Tertia           06-TPU-3-1080         PFab         1-Line         3 - Tertia         Mechanical Erection           06-TPU-3-1080         PFab         1-Line         3 - Mech         06-TPU-3           06-TPU-3-1100         PFab         1-Line         3 - Mech         06-TPU-3           06-TPU-3-1120         PFab         1-Line         3 - Mech         06-TPU-3         1-Line         1-Line         3 - Mech         06-TPU-3	rument Cable Pulling and Termination rument Equipment Installation rument Tubing Installation llation commissioning d out & ready to ship very ary Structure Fabrication Floor(EL37.72m~EL47.22m) Primary & Secondary Steel Structure Erection Floor(EL47.22m~ EL54.47m) Prim ary & Secondary Steel Structure Erection ary Structure Frection hanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) hanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Boiler Ash Transport) hanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	34       30       26       26       150       51       20       20       20       20       20       20       20       39       90       319       80       80	34           30           26           28           48           51           20           20           20           20           20           30           20           20           20           10           136           20           27           5           12           27           44           16	09 09 09 689 09 09 09 09 09 09 09 09 09 09 09 09 09	14-Dec-22           18-Dec-22           18-Dec-22           14-Dec-22           14-Dec-22           22-May-22           08-Dec-22           08-Dec-22           28-Jan-23           17-Feb-23           26-Nov-20 A           26-Nov-20 A           26-Nov-20 A           03-Aug-22 A           03-Aug-22 A           10-Jul-22 A           14-Jan-22 A           14-Jan-22 A           14-Jan-22 A           14-Jan-22 A	16-Jan-23           16-Jan-23           08-Jan-23           08-Jan-23           16-Jan-23           27-Jan-23           27-Jan-23           16-Feb-23           26-Feb-23           214-Apr-23           19-Dec-22           19-Dec-22           04-Dec-22           04-Dec-22           04-Dec-22           04-Dec-22	17-Oct-22           21-Oct-22           17-Oct-22           17-Oct-22           03-Oct-22           03-Oct-22           11-Oct-22           01-Dec-22           21-Dec-22           21-Dec-22           16-Oct-22           10-Jan-23           16-Oct-22           16-Oct-22           22-Oct-22	19-Nov-22           19-Nov-22           19-Nov-22           11-Nov-22           11-Nov-22           19-Nov-22           30-Nov-22           30-Nov-22           20-Dec-22           20-Dec-22           30-Dec-22           30-Dec-22           30-Dec-22           29-Jan-23           29-Jan-23           20-Oct-22	-58 -58 -58 -58 -58 -58 -58 -58 -58 -58			18-Dec-22       16-Jan-23, PFab 1-Line 2 - Instrument         14-Dec-22       08-Jan-23, PFab 1-Line 2 - Instrument         14-Dec-22       08-Jan-23, PFab 1-Line 2 - Instrument         14-Dec-22       08-Jan-23, PFab 1-Line 2 - Instrument         PFab 1-Line 2 - Insulation, 16-       27-Jan-23, PFab 1-Line 2 - Insulation, 16-         28-Jan-23       27-Jan-23, PFab 1-Line 2 - Insulation, 17-Feb-23
06-TPU-2-1300         PFab 1-Line 2 - Instra           06-TPU-2-1310         PFab 1-Line 2 - Instra           06-TPU-2-1320         PFab 1-Line 2 - Instra           06-TPU-2-1010         PFab 1-Line 2 - Instra           06-TPU-2-1020         PFab 1-Line 2 - Instra           06-TPU-2-1020         PFab 1-Line 2 - Pre-C           Load out & Shipping         06-TPU-2-1030           06-TPU-2-1030         PFab 1-Line 2 - Load           Delivery         06-TPU-2-1030           06-TPU-2-1030         PFab 1-Line 2 - Deliv           PFab 1-Line 3         Structure Fabrication           06-TPU-3-110         PFab 1-Line 3 - Tertia           Structure Fabrication         06-TPU-3-1080           06-TPU-3-1080         PFab 1-Line 3 - Tertia           Mechanical Erection         06-TPU-3-1100           06-TPU-3-1100         PFab 1-Line 3 - Mech           06-TPU-3-1120         PFab 1-Line 3 - Mech           06-TPU-3-1130         PFab 1-Line 3 - Mech           06-TPU-3-1140         PFab 1-Line 3 - Mech           06-TPU-3-120         PFab 1-Line 3 - Pipin           06-TPU-3-120         PFab 1-Line 3 - Pipin           06-TPU-3-120         PFab 1-Line 3 - Pipin           06-TPU-3-120         PFab 1-Line 3 - E&I <t< td=""><td>And the secondary Steel Structure Erection Floor(EL37.72m ~ EL47.22m) Primary &amp; Secondary Steel Structure Erection Floor(EL47.22m ~ EL54.47m) Prim ary &amp; Secondary Steel Structure Erection Floor(EL47.22m ~ EL54.47m) Prim ary &amp; Secondary Steel Structure Erection Floor(EL47.22m ~ EL54.47m) Prim ary &amp; Secondary Steel Structure Erection floor(EL47.22m ~ EL54.47m) Prim ary &amp; Secondary Steel Structure Erection floor(EL47.22m ~ EL54.47m) Prim ary &amp; Secondary Steel Structure Erection floor(EL47.22m ~ EL54.47m) Prim ary &amp; Secondary Steel Structure Erection hanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) hanical Installation - 2nd Floor(EL20.47m ~ EL47.22m) (Including Boiler Ash Transport) hanical Installation - 4th Floor(EL37.72m ~ EL47.22m) (Including Air Ducts)</td><td>30         30         30         26         26         150         150         51         20         20         20         20         20         20         20         20         20         20         10         10         200         200         200         200         200         200         30         39         90         319         80         80         80</td><td>30 226 226 48 48 51 51 20 20 10 10 10 136 20 20 20 20 5 12 27 5 12 27 44</td><td>09 09 09 09 09 09 09 09 09 09 09 09 09 0</td><td>18-Dec-22         14-Dec-22         14-Dec-22         14-Dec-22         22-May-22         08-Dec-22         08-Dec-22         28-Jan-23         17-Feb-23         26-Nov-20 A         26-Nov-20 A         26-Nov-20 A         26-Nov-20 A         21-Jul-22 A         20-Nou-20 A         11-Jul-22 A         20-Naug-22 A</td><td>16-Jan-23         08-Jan-23         08-Jan-23         16-Jan-23         27-Jan-23         16-Feb-23         16-Feb-23         26-Feb-23         214-Apr-23         19-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22</td><td>21-Oct-22 17-Oct-22 03-Oct-22 03-Oct-22 11-Oct-22 11-Oct-22 01-Dec-22 21-Dec-22 16-Oct-22 10-Jan-23 10-Jan-23 16-Oct-22 16-Oct-22 22-Oct-22</td><td>19-Nov-22           11-Nov-22           11-Nov-22           19-Nov-22           30-Nov-22           30-Nov-22           20-Dec-22           30-Dec-22           30-Dec-22           30-Dec-22           29-Jan-23           29-Jan-23           20-Dec-32</td><td>-58 -58 -58 -58 -58 -58 -58 -58 -58 -58</td><td></td><td>08-</td><td>14-Dec-22       08-Jan-23, PFab 1-Line 2 - Instrument         14-Dec-22       08-Jan-23, PFab 1-Line 2 - Instrument         PFab 1-Line 2 - Insulation, 16-         Dec-22       27-Jan-23, PFab 1-         28-Jan-23       17-Feb-23</td></t<>	And the secondary Steel Structure Erection Floor(EL37.72m ~ EL47.22m) Primary & Secondary Steel Structure Erection Floor(EL47.22m ~ EL54.47m) Prim ary & Secondary Steel Structure Erection Floor(EL47.22m ~ EL54.47m) Prim ary & Secondary Steel Structure Erection Floor(EL47.22m ~ EL54.47m) Prim ary & Secondary Steel Structure Erection floor(EL47.22m ~ EL54.47m) Prim ary & Secondary Steel Structure Erection floor(EL47.22m ~ EL54.47m) Prim ary & Secondary Steel Structure Erection floor(EL47.22m ~ EL54.47m) Prim ary & Secondary Steel Structure Erection hanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) hanical Installation - 2nd Floor(EL20.47m ~ EL47.22m) (Including Boiler Ash Transport) hanical Installation - 4th Floor(EL37.72m ~ EL47.22m) (Including Air Ducts)	30         30         30         26         26         150         150         51         20         20         20         20         20         20         20         20         20         20         10         10         200         200         200         200         200         200         30         39         90         319         80         80         80	30 226 226 48 48 51 51 20 20 10 10 10 136 20 20 20 20 5 12 27 5 12 27 44	09 09 09 09 09 09 09 09 09 09 09 09 09 0	18-Dec-22         14-Dec-22         14-Dec-22         14-Dec-22         22-May-22         08-Dec-22         08-Dec-22         28-Jan-23         17-Feb-23         26-Nov-20 A         26-Nov-20 A         26-Nov-20 A         26-Nov-20 A         21-Jul-22 A         20-Nou-20 A         11-Jul-22 A         20-Naug-22 A	16-Jan-23         08-Jan-23         08-Jan-23         16-Jan-23         27-Jan-23         16-Feb-23         16-Feb-23         26-Feb-23         214-Apr-23         19-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22	21-Oct-22 17-Oct-22 03-Oct-22 03-Oct-22 11-Oct-22 11-Oct-22 01-Dec-22 21-Dec-22 16-Oct-22 10-Jan-23 10-Jan-23 16-Oct-22 16-Oct-22 22-Oct-22	19-Nov-22           11-Nov-22           11-Nov-22           19-Nov-22           30-Nov-22           30-Nov-22           20-Dec-22           30-Dec-22           30-Dec-22           30-Dec-22           29-Jan-23           29-Jan-23           20-Dec-32	-58 -58 -58 -58 -58 -58 -58 -58 -58 -58		08-	14-Dec-22       08-Jan-23, PFab 1-Line 2 - Instrument         14-Dec-22       08-Jan-23, PFab 1-Line 2 - Instrument         PFab 1-Line 2 - Insulation, 16-         Dec-22       27-Jan-23, PFab 1-         28-Jan-23       17-Feb-23
06-TPU-2-1320         PFab 1-Line 2 - Instru           Insulation         Peab 1-Line 2 - Insul           06-TPU-2-1010         PFab 1-Line 2 - Insul           Precommissioning         06-TPU-2-1020           06-TPU-2-1020         PFab 1-Line 2 - Pre-of           Load out & Shipping         06-TPU-2-1030           06-TPU-2-1030         PFab 1-Line 2 - Load           Delivery         06-TPU-2-1340           06-TPU-2-1340         PFab 1-Line 3 - Tertia           Structure Fabrication         06-TPU-3-1110           06-TPU-3-1080         PFab 1-Line 3 - Tertia           Structure Erection         06-TPU-3-1090           06-TPU-3-1090         PFab 1-Line 3 - Tertia           Mechanical Erection         06-TPU-3-1100           06-TPU-3-1120         PFab 1-Line 3 - Mech           06-TPU-3-1130         PFab 1-Line 3 - Mech           06-TPU-3-1140         PFab 1-Line 3 - Mech           06-TPU-3-1120         PFab 1-Line 3 - Mech           06-TPU-3-120         PFab 1-Line 3 - Mech           06-TPU-3-120         PFab 1-Line 3 - Pipin           Piping Fabrication         0           06-TPU-3-1200         PFab 1-Line 3 - E&I           06-TPU-3-1200         PFab 1-Line 3 - E&I           06-TPU-3-1200	An and the secondary Steel Structure Erection Floor(EL37.72m ~ EL47.22m) Primary & Secondary Steel Structure Erection Floor(EL47.22m~ EL54.47m) Primary & Secondary Steel Structure Erection Floor(EL47.22m~ EL54.47m) Primary & Secondary Steel Structure Erection Annical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) hanical Installation - 2nd Floor(EL20.47m ~ EL47.22m) (Including Boiler Ash Transport) hanical Installation - 3rd Floor(EL26.72m ~ EL47.22m) (Including Air Ducts)	26         150         150         51         20         20         20         20         20         20         20         20         20         20         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         200         30         30         30         30         80         80	226 48 48 51 51 20 20 10 10 136 20 20 20 20 20 20 227 5 12 27 44	909 689 09 09 09 09 09 09 09 09 09 09 09 09 09	i         14-Dec-22           i         14-Dec-22           i         22-May-22           i         08-Dec-22           i         08-Dec-22           i         08-Dec-23           i         17-Feb-23           i         17-Feb-23           i         17-Feb-23           i         26-Nov-20 A           i         26-Nov-20 A           i         11-Jul-22 A           i         03-Aug-22 A           i         14-Jan-22 A	08-Jan-23           16-Jan-23           16-Jan-23           27-Jan-23           16-Feb-23           16-Feb-23           26-Feb-23           14-Apr-23           14-Apr-23           19-Dec-22           26-Dec-22           04-Dec-22           04-Dec-22           11-Dec-22	17-Oct-22           03-Oct-22           03-Oct-22           11-Oct-22           11-Oct-22           01-Dec-22           21-Dec-22           16-Oct-22           10-Jan-23           16-Oct-22           16-Oct-22           16-Oct-22           21-Dec-22           22-Oct-22	11-Nov-22           19-Nov-22           19-Nov-22           30-Nov-22           20-Dec-22           20-Dec-22           30-Dec-22           20-Dec-22           20-Dec-22           20-Dec-22           20-Dec-22           20-Dec-22           20-Dec-22           20-Dec-22           20-Dec-22           29-Jan-23           29-Jan-23           20-Jan-23           20-Oct-22	-58 -58 -58 -58 -58 -58 -58 -58 -58 -58		08-	14-Dec-22         08-Jan-23, PFab 1-Line 2 - Instrument           PFab 1-Line 2 - Insulation, 16-         27-Jan-23, PFab 1-           28-Jan-23         27-Jan-23, PFab 1-           17-Feb-23         17-Feb-23
Insulation         PFab 1-Line 2 - Insul           06-TPU-2-1020         PFab 1-Line 2 - Pre-occenting           06-TPU-2-1020         PFab 1-Line 2 - Pre-occenting           06-TPU-2-1030         PFab 1-Line 2 - Load           Delivery         06-TPU-2-1030           06-TPU-2-1030         PFab 1-Line 2 - Deliv           PFab 1-Line 3         Delivery           06-TPU-2-1340         PFab 1-Line 2 - Deliv           PFab 1-Line 3         Structure Fabrication           06-TPU-3-1110         PFab 1-Line 3 - Tertia           Structure Fabrication         06-TPU-3-1080           06-TPU-3-1090         PFab 1-Line 3 - Tertia           06-TPU-3-1100         PFab 1-Line 3 - Tertia           Mechanical Erection         06-TPU-3-1100           06-TPU-3-1100         PFab 1-Line 3 - Mech           06-TPU-3-1120         PFab 1-Line 3 - Mech           06-TPU-3-1120         PFab 1-Line 3 - Mech           06-TPU-3-120         PFab 1-Line 3 - Pipin           Piping Fabrication         06-TPU-3-120           06-TPU-3-120         PFab 1-Line 3 - Pipin           Piping Installation         06-TPU-3-120           06-TPU-3-120         PFab 1-Line 3 - Eal 1           06-TPU-3-120         PFab 1-Line 3 - Eal 1           06-	lation commissioning d out & ready to ship very ary Structure Fabrication Floor(EL37.72m~EL47.22m) Primary & Secondary Steel Structure Erection Floor(EL47.22m~ EL54.47m) Primary & Secondary Steel Structure Erection ary Structure Erection hanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) hanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Deaerator) hanical Installation - 3rd Floor(EL26.72m~EL47.22m) (Including Boiler As h Transport) hanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	150       150       150       150       150       100       200       200       200       200       200       200       200       200       200       300       301       302       303       304       305       319       80       80	48 48 51 51 20 20 10 10 136 20 20 20 20 20 227 5 12 27 44	909 58.339 69.239 709	22-May-22           22-May-22           08-Dec-22           08-Dec-22           28-Jan-23           17-Feb-23           17-Feb-23           26-Nov-20 A           26-Nov-20 A           26-Nov-20 A           30-Aug-22 A	16-Jan-23           16-Jan-23           27-Jan-23           27-Jan-23           16-Feb-23           16-Feb-23           26-Feb-23           14-Apr-23           19-Dec-22           26-Dec-22           04-Dec-22           04-Dec-22           11-Dec-22	03-Oct-22           03-Oct-22           11-Oct-22           11-Oct-22           01-Dec-22           21-Dec-22           21-Dec-22           16-Oct-22           10-Jan-23           16-Oct-22           21-Dec-22           20-Data           10-Jact-23           21-Dec-24           21-Dec-25           21-Dec-26           22-Oct-22	19-Nov-22           19-Nov-22           30-Nov-22           30-Nov-22           20-Dec-22           30-Dec-22           30-Dec-22           30-Dec-22           29-Jan-23           29-Jan-23           20-Jan-23           20-Jan-23           20-Dec-22	-58 -58 -58 -58 -58 -58 -58 -58 -58 -45 41 41 41		08-	PFab 1-Line 2 - Insulation, 16- 27-Jan-23, PFab 1- 28-Jan-23 17-Feb-23
06-TPU-2-1010         PFab 1-Line 2 - Insul           Precommissioning         Precommissioning           06-TPU-2-1020         PFab 1-Line 2 - Pre-ord           Load out & Shipping         Presonance           06-TPU-2-1030         PFab 1-Line 2 - Load           Delivery         Presonance           06-TPU-2-1340         PFab 1-Line 2 - Deliv           PFab 1-Line 3         Structure Fabrication           06-TPU-3-1110         PFab 1-Line 3 - Tertia           Structure Fabrication         Presonance           06-TPU-3-1080         PFab 1-Line 3 - Tertia           Structure Erection         Presonance           06-TPU-3-1090         PFab 1-Line 3 - Mech           06-TPU-3-1100         PFab 1-Line 3 - Mech           06-TPU-3-1100         PFab 1-Line 3 - Mech           06-TPU-3-1120         PFab 1-Line 3 - Mech           06-TPU-3-1120         PFab 1-Line 3 - Mech           06-TPU-3-120         PFab 1-Line 3 - Mech           06-TPU-3-120         PFab 1-Line 3 - Pipin           Piping Fabrication         O           06-TPU-3-120         PFab 1-Line 3 - Pipin           Piping Installation         O           06-TPU-3-120         PFab 1-Line 3 - East 1           06-TPU-3-120         PFab 1-Line 3	commissioning d out & ready to ship very ary Structure Fabrication Floor(EL37.72m~EL47.22m) Primary & Secondary Steel Structure Erection Floor(EL47.22m~ EL54.47m) Primary & Secondary Steel Structure Erection Floor(EL47.22m~ EL54.47m) Primary & Secondary Steel Structure Erection ary Structure Erection hanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) hanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Deaerator) hanical Installation - 3rd Floor( EL26.72m~EL37.72m) (Including Boiler Ash Transport) hanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	150         51         20         20         20         20         10         10         200         200         200         200         135         12         39         90         319         80         80	448 51 51 20 20 10 136 20 20 20 20 20 27 5 12 27 44 16	689 09 09 09 909 58.339 69.239 709	5         22-May-22           08-Dec-22         08-Dec-22           28-Jan-23         28-Jan-23           17-Feb-23         17-Feb-23           26-Nov-20 A         26-Nov-20 A           26-Nov-20 A         30-Aug-22 A           03-Aug-22 A         30-Aug-22 A           10-Jul-22 A         30-Aug-22 A	16-Jan-23         27-Jan-23         27-Jan-23         16-Feb-23         16-Feb-23         26-Feb-23         14-Apr-23         19-Dec-22         26-Dec-22         04-Dec-22         04-Dec-22         11-Dec-22	03-Oct-22           11-Oct-22           11-Oct-22           01-Dec-22           21-Dec-22           21-Dec-22           16-Oct-22           10-Jan-23           16-Oct-22           21-Dec-23           21-Dec-24           10-Jan-23           16-Oct-22           21-Oct-22           21-Dec-23	19-Nov-22           30-Nov-22           30-Nov-22           20-Dec-22           20-Dec-22           30-Dec-22           30-Dec-22           29-Jan-23           29-Jan-23           29-Jan-23           20-Jan-23           20-Jan-23           20-Dec-22	58 58 58 -58 -58 -58 -58 -45 41 41 41		08-	PFab 1-Line 2 - Insulation, 16- 2-Dec-22 27-Jan-23, PFab 1- 28-Jan-23 77-Feb-23 1 17-Feb-23 1
Precommissioning           06-TPU-2-1020         PFab 1-Line 2 - Pre-of           Load out & Shipping         06-TPU-2-1030         PFab 1-Line 2 - Load           06-TPU-2-1030         PFab 1-Line 2 - Deliv           PFab 1-Line 3         PFab 1-Line 2 - Deliv           06-TPU-2-1340         PFab 1-Line 2 - Deliv           PFab 1-Line 3         PFab 1-Line 3 - Deliv           PFab 1-Line 3         Structure Fabrication           06-TPU-3-1110         PFab 1-Line 3 - Tertia           Structure Erection         06-TPU-3-1080           06-TPU-3-1090         PFab 1-Line 3 - Mech           06-TPU-3-1100         PFab 1-Line 3 - Tertia           Mechanical Erection         06-TPU-3-1120           06-TPU-3-1130         PFab 1-Line 3 - Mech           06-TPU-3-1130         PFab 1-Line 3 - Mech           06-TPU-3-1140         PFab 1-Line 3 - Mech           06-TPU-3-120         PFab 1-Line 3 - E&H           <	commissioning d out & ready to ship very ary Structure Fabrication Floor(EL37.72m~EL47.22m) Primary & Secondary Steel Structure Erection Floor(EL47.22m~ EL54.47m) Primary & Secondary Steel Structure Erection Floor(EL47.22m~ EL54.47m) Primary & Secondary Steel Structure Erection ary Structure Erection hanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) hanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Deaerator) hanical Installation - 3rd Floor( EL26.72m~EL37.72m) (Including Boiler Ash Transport) hanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	51 51 20 20 20 10 10 634 200 200 135 12 39 90 319 80 80 80	51 51 20 20 10 10 136 20 20 20 20 27 5 12 27 5 12 27 44	09 09 09 909 58.339 69.239 709	08-Dec-22           08-Dec-22           28-Jan-23           17-Feb-23           17-Feb-23           26-Nov-20 A           26-Nov-20 A           26-Nov-20 A           03-Aug-22 A           03-Aug-22 A           103-Aug-22 A           103-Aug-22 A           103-Aug-22 A	27-Jan-23           27-Jan-23           16-Feb-23           16-Feb-23           26-Feb-23           26-Feb-23           14-Apr-23           19-Dec-22           19-Dec-22           04-Dec-22           04-Dec-22           11-Dec-22	11-Oct-22           11-Oct-22           01-Dec-22           01-Dec-22           21-Dec-22           16-Oct-22           10-Jan-23           16-Oct-22           16-Oct-22           21-Dec-23           21-Dec-24           10-Jan-23           16-Oct-22           22-Oct-22	30-Nov-22           30-Nov-22           20-Dec-22           20-Dec-22           30-Dec-22           30-Dec-22           29-Jan-23           29-Jan-23           29-Jan-23           20-Dec-22	-58 -58 -58 -58 -58 -58 -58 -45 41 41 41 34		08-	27-Jan-23, PFab 1- 28-Jan-23 17-Feb-23
06-TPU-2-1020         PFab 1-Line 2 - Pre-C           Load out & Shipping         PFab 1-Line 2 - Load           06-TPU-2-1030         PFab 1-Line 2 - Deliv           06-TPU-2-1340         PFab 1-Line 2 - Deliv           PFab 1-Line 3         PFab 1-Line 2 - Deliv           PFab 1-Line 3         PFab 1-Line 3 - Deliv           PFab 1-Line 3         PFab 1-Line 3 - Tertia           Structure Fabrication         PFab 1-Line 3 - Tertia           06-TPU-3-1100         PFab 1-Line 3 - Tertia           06-TPU-3-1090         PFab 1-Line 3 - Tertia           06-TPU-3-1100         PFab 1-Line 3 - Mech           06-TPU-3-1100         PFab 1-Line 3 - Mech           06-TPU-3-1120         PFab 1-Line 3 - Mech           06-TPU-3-1130         PFab 1-Line 3 - Mech           06-TPU-3-1140         PFab 1-Line 3 - Mech           06-TPU-3-120         PFab 1-Line 3 - Eal 1           06-TPU-3-120         PFab 1-Line 3 - Eal 1           06-TPU-3-120         PFab 1-Line 3 - Eal 1 <td>d out &amp; ready to ship very ary Structure Fabrication Floor(EL37.72m~EL47.22m) Primary &amp; Secondary Steel Structure Erection Floor(EL47.22m~ EL54.47m) Primary &amp; Secondary Steel Structure Erection ary Structure Erection hanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) hanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Deaerator) hanical Installation - 3rd Floor(EL20.47m~EL47.22m) (Including Boiler As h Transport) hanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)</td> <td>51 20 20 10 10 634 200 200 135 12 39 90 319 80 80 80</td> <td>51 20 20 10 10 136 20 20 20 27 5 12 27 44</td> <td>09 09 09 09 58.339 69.239 709</td> <td>08-Dec-22           28-Jan-23           28-Jan-23           17-Feb-23           17-Feb-23           26-Nov-20 A           26-Nov-20 A           26-Nov-20 A           11-Jul-22 A           03-Aug-22 A           103-Aug-22 A           14-Jan-22 A</td> <td>27-Jan-23 16-Feb-23 16-Feb-23 26-Feb-23 26-Feb-23 14-Apr-23 19-Dec-22 26-Dec-22 26-Dec-22 04-Dec-22 11-Dec-22</td> <td>11-Oct-22           01-Dec-22           01-Dec-22           21-Dec-22           21-Dec-22           10-Jan-23           10-Jan-23           16-Oct-22           16-Oct-22           22-Oct-22</td> <td>30-Nov-22           20-Dec-22           20-Dec-22           30-Dec-22           30-Dec-22           29-Jan-23           29-Jan-23           29-Jan-23           29-Jan-23           29-Jan-23           29-Jan-23           29-Jan-23</td> <td>-58 -58 -58 -58 -58 -45 41 41 41 34</td> <td></td> <td>08-</td> <td>28-Jan-23</td>	d out & ready to ship very ary Structure Fabrication Floor(EL37.72m~EL47.22m) Primary & Secondary Steel Structure Erection Floor(EL47.22m~ EL54.47m) Primary & Secondary Steel Structure Erection ary Structure Erection hanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) hanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Deaerator) hanical Installation - 3rd Floor(EL20.47m~EL47.22m) (Including Boiler As h Transport) hanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	51 20 20 10 10 634 200 200 135 12 39 90 319 80 80 80	51 20 20 10 10 136 20 20 20 27 5 12 27 44	09 09 09 09 58.339 69.239 709	08-Dec-22           28-Jan-23           28-Jan-23           17-Feb-23           17-Feb-23           26-Nov-20 A           26-Nov-20 A           26-Nov-20 A           11-Jul-22 A           03-Aug-22 A           103-Aug-22 A           14-Jan-22 A	27-Jan-23 16-Feb-23 16-Feb-23 26-Feb-23 26-Feb-23 14-Apr-23 19-Dec-22 26-Dec-22 26-Dec-22 04-Dec-22 11-Dec-22	11-Oct-22           01-Dec-22           01-Dec-22           21-Dec-22           21-Dec-22           10-Jan-23           10-Jan-23           16-Oct-22           16-Oct-22           22-Oct-22	30-Nov-22           20-Dec-22           20-Dec-22           30-Dec-22           30-Dec-22           29-Jan-23           29-Jan-23           29-Jan-23           29-Jan-23           29-Jan-23           29-Jan-23           29-Jan-23	-58 -58 -58 -58 -58 -45 41 41 41 34		08-	28-Jan-23
06-TPU-2-1030         PFab 1-Line 2 - Load           Delivery         06-TPU-2-1340         PFab 1-Line 2 - Deliv           PFab 1- Line 3         Structure Fabrication         06-TPU-3-1110         PFab 1-Line 3 - Tertia           Structure Fabrication         06-TPU-3-1110         PFab 1-Line 3 - Tertia           Structure Frection         06-TPU-3-1080         PFab 1-Line 3 - Tertia           06-TPU-3-1090         PFab 1-Line 3 - Tertia           Mechanical Erection         06-TPU-3-1100         PFab 1-Line 3 - Tertia           Mechanical Erection         06-TPU-3-1120         PFab 1-Line 3 - Mech           06-TPU-3-1130         PFab 1-Line 3 - Mech           06-TPU-3-1140         PFab 1-Line 3 - Mech           06-TPU-3-1150         PFab 1-Line 3 - Mech           06-TPU-3-1140         PFab 1-Line 3 - Mech           06-TPU-3-1200         PFab 1-Line 3 - Pripin           Piping Fabrication         06-TPU-3-1200         PFab 1-Line 3 - Pripin           06-TPU-3-1200         PFab 1-Line 3 - E&H         06-TPU-3-1200           06-TPU-3-1200         PFab 1-Line 3 - E&H         06-TPU-3-1280           06-TPU-3-1280         PFab 1-Line 3 - E&H         06-TPU-3-1280           06-TPU-3-1280         PFab 1-Line 3 - E&H         06-TPU-3-1280	ary Structure Fabrication Floor(EL37.72m~EL47.22m) Primary & Secondary Steel Structure Erection Floor(EL47.22m~ EL54.47m) Prim ary & Secondary Steel Structure Erection ary Structure Erection hanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) hanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Deaerator) hanical Installation - 3rd Floor(EL26.72m~EL37.72m) (Including Boiler As h Transport) hanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	20 10 634 200 200 135 12 39 90 319 80 80	20 10 136 20 20 27 5 12 27 44 16	09 09 909 58.339 69.239 709	28-Jan-23       17-Feb-23       17-Feb-23       26-Nov-20 A       26-Nov-20 A       26-Nov-20 A       26-Nov-20 A       14-Jan-22 A       03-Aug-22 A       14-Jan-22 A	16-Feb-23         26-Feb-23         26-Feb-23         19-Dec-22         26-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22         04-Dec-22	01-Dec-22 21-Dec-22 10-Jan-23 10-Jan-23 10-Jan-23 16-Oct-22 16-Oct-22 22-Oct-22	20-Dec-22 30-Dec-22 30-Dec-22 28-Feb-23 29-Jan-23 29-Jan-23 29-Jan-23 20-Oct-22	-58 -58 -58 -58 -45 41 41 41 34			28-Jan-23
Delivery           06-TPU-2-1340         PFab 1-Line 2 - Deliv           PFab 1- Line 3         Structure Fabrication           06-TPU-3-1110         PFab 1-Line 3 - Tertia           Structure Erection         06-TPU-3-1080           06-TPU-3-1090         PFab 1-Line 3 - 4th F           06-TPU-3-1090         PFab 1-Line 3 - 76 PF           06-TPU-3-1090         PFab 1-Line 3 - 76 PF           06-TPU-3-1100         PFab 1-Line 3 - 76 PF           06-TPU-3-1100         PFab 1-Line 3 - 76 PF           06-TPU-3-1120         PFab 1-Line 3 - 76 PF           06-TPU-3-1120         PFab 1-Line 3 - 76 PF           06-TPU-3-1120         PFab 1-Line 3 - Mech           06-TPU-3-1120         PFab 1-Line 3 - Mech           06-TPU-3-1140         PFab 1-Line 3 - Mech           06-TPU-3-1240         PFab 1-Line 3 - 76 PF           06-TPU-3-1220         PFab 1-Line 3 - 100           06-TPU-3-1220         PFab 1-Line 3 - 100           06-TPU-3-1220         PFab 1-Line 3 - 100           06-TPU-3-1200         PFab 1-Line 3 - 200           06-TPU-3-1200         PFab 1-Line 3 - 200           06-TPU-3-1250         PFab 1-Line 3 - 200           06-TPU-3-1260         PFab 1-Line 3 - 200           06-TPU-3-1260         PFab 1-	ary Structure Fabrication Floor(EL37.72m~EL47.22m) Primary & Secondary Steel Structure Erection Floor(EL47.22m~ EL54.47m) Prim ary & Secondary Steel Structure Erection ary Structure Erection hanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) hanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Deaerator) hanical Installation - 3rd Floor(EL26.72m~EL37.72m) (Including Boiler As h Transport) hanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	10 10 634 200 200 135 12 39 90 319 80 80 80	10 10 136 20 20 27 5 12 27 44 16	09 909 58.339 69.239 709	17-Feb-23           17-Feb-23           26-Nov-20 A           26-Nov-20 A           26-Nov-20 A           14-Jan-22 A           03-Aug-22 A           03-Aug-22 A           14-Jan-22 A	26-Feb-23           26-Feb-23           14-Apr-23           19-Dec-22           26-Dec-22           04-Dec-22           11-Dec-22	21-Dec-22 21-Dec-22 16-Oct-22 10-Jan-23 10-Jan-23 16-Oct-22 16-Oct-22 22-Oct-22	30-Dec-22           30-Dec-22           28-Feb-23           29-Jan-23           29-Jan-23           29-Jan-23           20-Oct-22	-58 -58 -45 41 41 34			28-Jan-23
06-TPU-2-1340         PFab 1-Line 2 - Deliv           PFab 1- Line 3         Structure Fabrication           06-TPU-3-1110         PFab 1-Line 3 - Tertia           Structure Erection         PFab 1-Line 3 - Tertia           06-TPU-3-1080         PFab 1-Line 3 - Tertia           06-TPU-3-1090         PFab 1-Line 3 - Tertia           06-TPU-3-1000         PFab 1-Line 3 - Tertia           Mechanical Erection         06-TPU-3-1120           06-TPU-3-1120         PFab 1-Line 3 - Mech           06-TPU-3-1130         PFab 1-Line 3 - Mech           06-TPU-3-1140         PFab 1-Line 3 - Mech           06-TPU-3-1150         PFab 1-Line 3 - Mech           06-TPU-3-120         PFab 1-Line 3 - Elst           06-TPU-3-120         PFab 1-Line 3 - Elst	ary Structure Fabrication Floor(EL37.72m~EL47.22m) Primary & Secondary Steel Structure Erection Floor(EL47.22m~EL54.47m) Primary & Secondary Steel Structure Erection ary Structure Erection hanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) hanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Deaerator) hanical Installation - 3rd Floor(EL20.47m~EL37.72m) (Including Boiler As h Transport) hanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	10 10 634 200 200 135 12 39 90 319 80 80 80	10 136 20 20 27 5 12 27 44 44	09 909 58.339 69.239 709	<ul> <li>17-Feb-23</li> <li>26-Nov-20 A</li> <li>26-Nov-20 A</li> <li>26-Nov-20 A</li> <li>26-Nov-20 A</li> <li>14-Jan-22 A</li> <li>11-Jul-22 A</li> <li>03-Aug-22 A</li> <li>14-Jan-22 A</li> </ul>	26-Feb-23           14-Apr-23           19-Dec-22           19-Dec-22           26-Dec-22           04-Dec-22           11-Dec-22	21-Dec-22 16-Oct-22 10-Jan-23 10-Jan-23 16-Oct-22 16-Oct-22 22-Oct-22	30-Dec-22           28-Feb-23           29-Jan-23           29-Jan-23           29-Jan-23           20-Oct-22	-58 -45 41 41 34			
PFab 1- Line 3           Structure Fabrication           06-TPU-3-1110         PFab 1-Line 3 - Tertia           Structure Erection           06-TPU-3-1080         PFab 1-Line 3 - 4th F           06-TPU-3-1090         PFab 1-Line 3 - 4th F           06-TPU-3-1090         PFab 1-Line 3 - 7th F           06-TPU-3-1100         PFab 1-Line 3 - Tertia           Mechanical Erection	ary Structure Fabrication Floor(EL37.72m~EL47.22m) Primary & Secondary Steel Structure Erection Floor(EL47.22m~EL54.47m) Primary & Secondary Steel Structure Erection ary Structure Erection hanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) hanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Deaerator) hanical Installation - 3rd Floor(EL20.47m~EL37.72m) (Including Boiler As h Transport) hanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	634           200           200           135           12           39           90           319           80           80	136 20 20 27 5 12 27 44 16	909 58.339 69.239 709	26-Nov-20 A           26-Nov-20 A           26-Nov-20 A           14-Jan-22 A           11-Jul-22 A           03-Aug-22 A           14-Jan-22 A	14-Apr-23           19-Dec-22           19-Dec-22           26-Dec-22           04-Dec-22           04-Dec-22           11-Dec-22	16-Oct-22           10-Jan-23           10-Jan-23           10-Oct-22           16-Oct-22           16-Oct-22           22-Oct-22	28-Feb-23 29-Jan-23 29-Jan-23 29-Jan-23 29-Jan-23 20-Oct-22	-45 41 41 34			
Structure Fabrication           06-TPU-3-1110         PFab 1-Line 3 - Tertia           Structure Erection         06-TPU-3-1080         PFab 1-Line 3 - 4th F           06-TPU-3-1080         PFab 1-Line 3 - 4th F           06-TPU-3-1090         PFab 1-Line 3 - 76 F           06-TPU-3-1100         PFab 1-Line 3 - 76 F           06-TPU-3-1100         PFab 1-Line 3 - 76 F           06-TPU-3-1100         PFab 1-Line 3 - 76 F           06-TPU-3-1120         PFab 1-Line 3 - Mech           06-TPU-3-1130         PFab 1-Line 3 - Mech           06-TPU-3-1140         PFab 1-Line 3 - Mech           06-TPU-3-1150         PFab 1-Line 3 - Mech           06-TPU-3-120         PFab 1-Line 3 - Mech           06-TPU-3-1200         PFab 1-Line 3 - E&H	Floor(EL37.72m~EL47.22m) Primary & Secondary Steel Structure Erection Floor(EL47.22m~EL54.47m) Primary & Secondary Steel Structure Erection ary Structure Erection hanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) hanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Deaerator) hanical Installation - 3rd Floor( EL26.72m~EL37.72m) (Including Boiler Ash Transport) hanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	200 200 135 12 39 90 319 80 80	20 20 27 5 12 27 44 16	909 58.339 69.239 709	26-Nov-20 A           26-Nov-20 A           14-Jan-22 A           11-Jul-22 A           03-Aug-22 A           14-Jan-22 A	<ul> <li>19-Dec-22</li> <li>19-Dec-22</li> <li>26-Dec-22</li> <li>04-Dec-22</li> <li>11-Dec-22</li> </ul>	10-Jan-23           10-Jan-23           16-Oct-22           16-Oct-22           22-Oct-22	29-Jan-23 29-Jan-23 29-Jan-23 20-Oct-22	41 41 34			19-Dec-22, PFab 1-Line 3 - Tertiary Structure Fabrication. P
06-TPU-3-1110         PFab 1-Line 3 - Tertia           Structure Erection         06-TPU-3-1080         PFab 1-Line 3 - 4th F           06-TPU-3-1090         PFab 1-Line 3 - 7th F           06-TPU-3-1090         PFab 1-Line 3 - 7th F           06-TPU-3-1100         PFab 1-Line 3 - 7th F           06-TPU-3-1120         PFab 1-Line 3 - 7th F           06-TPU-3-1140         PFab 1-Line 3 - 7th F           06-TPU-3-120         PFab 1-Line 3 - 8th F           06-TPU-3-120         PFab 1-Line 3 - 8th F           06-TPU-3-1250         PFab 1-Line 3 - 8th F           06-TPU-3-1280         PFab	Floor(EL37.72m~EL47.22m) Primary & Secondary Steel Structure Erection Floor(EL47.22m~EL54.47m) Primary & Secondary Steel Structure Erection ary Structure Erection hanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) hanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Deaerator) hanical Installation - 3rd Floor( EL26.72m~EL37.72m) (Including Boiler Ash Transport) hanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	135           12           39           90           319           80           80	27 5 12 27 44 16	58.33% 69.23% 70%	14-Jan-22 A           5         11-Jul-22 A           6         03-Aug-22 A           6         14-Jan-22 A	26-Dec-22           04-Dec-22           11-Dec-22	16-Oct-22           16-Oct-22           22-Oct-22	29-Jan-23 20-Oct-22	34			19-Dec-22, PFab 1-Line 3 - Tertiarv Structure Fabrication. P
06-TPU-3-1080         PFab 1-Line 3 - 4th F           06-TPU-3-1090         PFab 1-Line 3 - Top F           06-TPU-3-1100         PFab 1-Line 3 - Tertia           Mechanical Erection         PFab 1-Line 3 - Mech           06-TPU-3-1120         PFab 1-Line 3 - Mech           06-TPU-3-1130         PFab 1-Line 3 - Mech           06-TPU-3-1130         PFab 1-Line 3 - Mech           06-TPU-3-1130         PFab 1-Line 3 - Mech           06-TPU-3-1140         PFab 1-Line 3 - Mech           06-TPU-3-1150         PFab 1-Line 3 - Mech           06-TPU-3-1240         PFab 1-Line 3 - Mech           06-TPU-3-1240         PFab 1-Line 3 - Mech           06-TPU-3-1220         PFab 1-Line 3 - Pipin           06-TPU-3-1220         PFab 1-Line 3 - Pipin           06-TPU-3-1200         PFab 1-Line 3 - Pipin           06-TPU-3-1200         PFab 1-Line 3 - E&I F           06-TPU-3-1200         PFab 1-Line 3 - E&I F           06-TPU-3-1200         PFab 1-Line 3 - E&I F           06-TPU-3-1260         PFab 1-Line 3 - E&I F           06-TPU-3-1260         PFab 1-Line 3 - E&I F           06-TPU-3-1280         PFab 1-Line 3 - E           06-TPU-3-1280         PFab 1-Line 3 - E	Floor(EL47.22m~EL54.47m) Prim ary & Secondary Steel Structure Erection ary Structure Erection hanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) hanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Deaerator) hanical Installation - 3rd Floor( EL26.72m~EL37.72m) (Including Boiler Ash Transport) hanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	12 39 90 319 80 80	5 12 27 44 16	58.33% 69.23% 70%	6 11-Jul-22 A 6 03-Aug-22 A 6 14-Jan-22 A	04-Dec-22 11-Dec-22	16-Oct-22 22-Oct-22	20-Oct-22				,
06-TPU-3-1090         PFab 1-Line 3 - Top F           06-TPU-3-1100         PFab 1-Line 3 - Tertia           Mechanical Erection         PFab 1-Line 3 - Mech           06-TPU-3-1120         PFab 1-Line 3 - Mech           06-TPU-3-1130         PFab 1-Line 3 - Mech           06-TPU-3-1130         PFab 1-Line 3 - Mech           06-TPU-3-1140         PFab 1-Line 3 - Mech           06-TPU-3-1150         PFab 1-Line 3 - Mech           06-TPU-3-1240         PFab 1-Line 3 - Mech           06-TPU-3-1240         PFab 1-Line 3 - Mech           06-TPU-3-120         PFab 1-Line 3 - Mech           06-TPU-3-120         PFab 1-Line 3 - Pipin           Piping Installation         06-TPU-3-1230           06-TPU-3-1230         PFab 1-Line 3 - E&H           06-TPU-3-1250         PFab 1-Line 3 - E&H           06-TPU-3-1250         PFab 1-Line 3 - E&H           06-TPU-3-1260         PFab 1-Line 3 - E&H           06-TPU-3-1270         PFab 1-Line 3 - E           06-TPU-3-1280         PFab 1-Line 3 - E           06-TPU-3-1280         PFab 1-Line 3 - E	Floor(EL47.22m~EL54.47m) Prim ary & Secondary Steel Structure Erection ary Structure Erection hanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) hanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Deaerator) hanical Installation - 3rd Floor( EL26.72m~EL37.72m) (Including Boiler Ash Transport) hanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	39 90 319 80 80	12 27 44 16	69.23% 70%	6 03-Aug-22 A 6 14-Jan-22 A	11-Dec-22	22-Oct-22		-45			
06-TPU-3-1100         PFab 1-Line 3 - Tertia           Mechanical Erection         06-TPU-3-1120         PFab 1-Line 3 - Mech           06-TPU-3-1130         PFab 1-Line 3 - Mech         06-TPU-3-1130           06-TPU-3-1140         PFab 1-Line 3 - Mech           06-TPU-3-1150         PFab 1-Line 3 - Mech           06-TPU-3-1150         PFab 1-Line 3 - Mech           06-TPU-3-1150         PFab 1-Line 3 - Mech           06-TPU-3-1240         PFab 1-Line 3 - Mech           06-TPU-3-1220         PFab 1-Line 3 - Mech           06-TPU-3-1220         PFab 1-Line 3 - Pipin           Piping Installation         06-TPU-3-1220           06-TPU-3-1000         PFab 1-Line 3 - Pipin           E&I Installation         06-TPU-3-1230           06-TPU-3-1230         PFab 1-Line 3 - E&I 1           06-TPU-3-1250         PFab 1-Line 3 - E&I 1           06-TPU-3-1260         PFab 1-Line 3 - E&I 1           06-TPU-3-1270         PFab 1-Line 3 - E           06-TPU-3-1280         PFab 1-Line 3 - E           06-TPU-3-1280         PFab 1-Line 3 - E	ary Structure Erection hanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) hanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Deaerator) hanical Installation - 3rd Floor( EL26.72m~EL37.72m) (Including Boiler Ash Transport) hanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	90 319 80 80	27 44 16	70%	6 14-Jan-22 A			02-Nov-22				PFab 1-Line 3 - 4th Floor(EL37.72m~EL47.22m) Primary & Secondary Ste
Mechanical Erection           06-TPU-3-1120         PFab 1-Line 3 - Mech           06-TPU-3-1130         PFab 1-Line 3 - Mech           06-TPU-3-1140         PFab 1-Line 3 - Mech           06-TPU-3-1150         PFab 1-Line 3 - Mech           06-TPU-3-1240         PFab 1-Line 3 - Mech           06-TPU-3-1240         PFab 1-Line 3 - Mech           06-TPU-3-1220         PFab 1-Line 3 - Mech           06-TPU-3-1220         PFab 1-Line 3 - Pipin           Piping Installation         0           06-TPU-3-1200         PFab 1-Line 3 - Pipin           E&I Installation         0           06-TPU-3-1250         PFab 1-Line 3 - E&I 1           06-TPU-3-1260         PFab 1-Line 3 - E&I 2           06-TPU-3-1260         PFab 1-Line 3 - E&I 2           06-TPU-3-1270         PFab 1-Line 3 - E           06-TPU-3-1280         PFab 1-Line 3 - E           06-TPU-3-1280         PFab 1-Line 3 - E	hanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate) hanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Deaerator) hanical Installation - 3rd Floor( EL26.72m~EL37.72m) (Including Boiler Ash Transport) hanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	319 80 80	44 16			20-Dec-22	00 100 00		-39 34			PFab 1-Line 3 - Top Floor(EL47.22m~EL54.47m) Primary & Second
06-TPU-3-1120         PFab 1-Line 3 - Mech           06-TPU-3-1130         PFab 1-Line 3 - Mech           06-TPU-3-1140         PFab 1-Line 3 - Mech           06-TPU-3-1150         PFab 1-Line 3 - Mech           06-TPU-3-1240         PFab 1-Line 3 - Mech           06-TPU-3-1240         PFab 1-Line 3 - Mech           06-TPU-3-1220         PFab 1-Line 3 - Mech           06-TPU-3-1220         PFab 1-Line 3 - Pipin           Piping Installation         06-TPU-3-1000           06-TPU-3-1230         PFab 1-Line 3 - Pipin           E&I Installation         06-TPU-3-1250           06-TPU-3-1250         PFab 1-Line 3 - E&I 1           E&I Installation         06-TPU-3-1260           06-TPU-3-1260         PFab 1-Line 3 - E&I 1           06-TPU-3-1280         PFab 1-Line 3 - E           06-TPU-3-1270         PFab 1-Line 3 - E           06-TPU-3-1280         PFab 1-Line 3 - E	hanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Deaerator) hanical Installation - 3rd Floor( EL26.72m~EL37.72m) (Including Boiler Ash Transport) hanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	80 80	16		02 Mar 22 A	12-Jan-23	03-Jan-23 30-Oct-22		-31			26-Dec-22, PFab 1-Line 3 - Tertiary Structure Erection
06-TPU-3-1130         PFab 1-Line 3 - Mech           06-TPU-3-1140         PFab 1-Line 3 - Mech           06-TPU-3-1150         PFab 1-Line 3 - Mech           06-TPU-3-1240         PFab 1-Line 3 - Mech           06-TPU-3-1240         PFab 1-Line 3 - Mech           06-TPU-3-1220         PFab 1-Line 3 - Mech           06-TPU-3-1220         PFab 1-Line 3 - Pipin           Piping Installation         06-TPU-3-1000           06-TPU-3-1230         PFab 1-Line 3 - Pipin           E&I Installation         06-TPU-3-1250           06-TPU-3-1250         PFab 1-Line 3 - E&I 1           06-TPU-3-1260         PFab 1-Line 3 - E&I 2           06-TPU-3-1270         PFab 1-Line 3 - E&I 2           06-TPU-3-1280         PFab 1-Line 3 - Elect           06-TPU-3-1280         PFab 1-Line 3 - Elect           06-TPU-3-1290         PFab 1-Line 3 - Elect	hanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including Deaerator) hanical Installation - 3rd Floor( EL26.72m~EL37.72m) (Including Boiler Ash Transport) hanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)				6 03-Mar-22 A		27-Nov-22		-3			PFab 1-Line 3 - Mechanical Installation - 1st Floor (Below EL20
06-TPU-3-1150         PFab 1-Line 3 - Mech           06-TPU-3-1240         PFab 1-Line 3 - Mech           06-TPU-3-1220         PFab 1-Line 3 - Pipin           06-TPU-3-1220         PFab 1-Line 3 - Pipin           06-TPU-3-1000         PFab 1-Line 3 - Pipin           06-TPU-3-1230         PFab 1-Line 3 - Pipin           06-TPU-3-1230         PFab 1-Line 3 - E&I 1           06-TPU-3-1230         PFab 1-Line 3 - E&I 1           06-TPU-3-1250         PFab 1-Line 3 - E&I 3           06-TPU-3-1260         PFab 1-Line 3 - E&I 0           06-TPU-3-1270         PFab 1-Line 3 - E&I 0           06-TPU-3-1280         PFab 1-Line 3 - E           06-TPU-3-1280         PFab 1-Line 3 - E	hanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	80	35		6 13-May-22		08-Nov-22		-22			PFab 1-Line 3 - Mechanical Installation - 2nd
06-TPU-3-1240         PFab 1-Line 3 - Mech           Piping Fabrication         Piping Installation           06-TPU-3-1220         PFab 1-Line 3 - Piping           Piping Installation         Piping Installation           06-TPU-3-1000         PFab 1-Line 3 - Piping           E&I Fabrication         Piping Installation           06-TPU-3-1230         PFab 1-Line 3 - E&I 1           06-TPU-3-1230         PFab 1-Line 3 - E&I 3           06-TPU-3-1250         PFab 1-Line 3 - E&I 3           06-TPU-3-1260         PFab 1-Line 3 - E&I 0           06-TPU-3-1270         PFab 1-Line 3 - E           06-TPU-3-1280         PFab 1-Line 3 - E           06-TPU-3-1280         PFab 1-Line 3 - E           06-TPU-3-1280         PFab 1-Line 3 - E			24	70%	6 17-Jun-22 A	03-Jan-23	19-Nov-22	12-Dec-22	-22			PFab 1-Line 3 - Mechanical Installation - 3rc
Piping Fabrication           06-TPU-3-1220         PFab 1-Line 3 - Pipin           Piping Installation         06-TPU-3-1000         PFab 1-Line 3 - Pipin           06-TPU-3-1000         PFab 1-Line 3 - Pipin         E&I fabrication           06-TPU-3-1230         PFab 1-Line 3 - E&I 1         6-TPU-3-1250           06-TPU-3-1250         PFab 1-Line 3 - E&I 3         6-TPU-3-1260           06-TPU-3-1260         PFab 1-Line 3 - E&I 4         6-TPU-3-1260           06-TPU-3-1270         PFab 1-Line 3 - EIect         6-TPU-3-1280           06-TPU-3-1280         PFab 1-Line 3 - Elect         06-TPU-3-1290		40	40	0%	6 04-Dec-22*	12-Jan-23	03-Nov-22	12-Dec-22	-31		04-Dec-	22* 12-Jan-23, PFab 1-Line 3 - Mechar
06-TPU-3-1220         PFab 1-Line 3 - Pipin           Piping Installation         06-TPU-3-1000         PFab 1-Line 3 - Pipin           06-TPU-3-1230         PFab 1-Line 3 - E&I I           06-TPU-3-1230         PFab 1-Line 3 - E&I I           06-TPU-3-1250         PFab 1-Line 3 - E&I I           06-TPU-3-1250         PFab 1-Line 3 - E&I I           06-TPU-3-1260         PFab 1-Line 3 - E&I I           06-TPU-3-1270         PFab 1-Line 3 - E           06-TPU-3-1280         PFab 1-Line 3 - E           06-TPU-3-1290         PFab 1-Line 3 - E	hanical Installation - Boiler Lifting & Installation	80	4	95%	6 11-Aug-22 A		30-Oct-22		-45			PFab 1-Line 3 - Mechanical Installation - Boiler Lifting & Insta
Piping Installation           06-TPU-3-1000         PFab 1-Line 3 - Pipin           E&I Fabrication         06-TPU-3-1230           06-TPU-3-1230         PFab 1-Line 3 - E&I I           E&I Installation         06-TPU-3-1250           06-TPU-3-1260         PFab 1-Line 3 - E&I I           06-TPU-3-1260         PFab 1-Line 3 - E&I I           06-TPU-3-1270         PFab 1-Line 3 - E           06-TPU-3-1280         PFab 1-Line 3 - E           06-TPU-3-1290         PFab 1-Line 3 - E	na Echriquitian	180 180	6	06.679	09-Mar-21 A	05-Dec-22	16-Oct-22 16-Oct-22		-45 -45			PFab 1-Line 3 - Piping Fabrication, 05-Dec-22, 05-Dec-22, PFab 1-Line 3
06-TPU-3-1000         PFab 1-Line 3 - Pipin           E&I Fabrication         PFab 1-Line 3 - E&I I           06-TPU-3-1230         PFab 1-Line 3 - E&I I           E&I Installation         PFab 1-Line 3 - E&I I           06-TPU-3-1250         PFab 1-Line 3 - E&I I           06-TPU-3-1260         PFab 1-Line 3 - E&I I           06-TPU-3-1260         PFab 1-Line 3 - E&I I           06-TPU-3-1270         PFab 1-Line 3 - Elect           06-TPU-3-1280         PFab 1-Line 3 - Elect           06-TPU-3-1290         PFab 1-Line 3 - Elect	ng Fabrication	119	6 70	00.07 /		05-Dec-22 07-Feb-23	16-Oct-22		-45			Prab 1-Line 3 - Piping Fabrication, 05-Dec-22, 05-Dec-22, Prab 1-Line 3
06-TPU-3-1230         PFab 1-Line 3 - E&I I           E&I Installation         06-TPU-3-1250         PFab 1-Line 3 - E&I I           06-TPU-3-1260         PFab 1-Line 3 - E&I I         06-TPU-3-1260           Electrical         06-TPU-3-1270         PFab 1-Line 3 - Elect           06-TPU-3-1280         PFab 1-Line 3 - Elect         06-TPU-3-1280           06-TPU-3-1290         PFab 1-Line 3 - Elect         06-TPU-3 - Elect	ng Installation	119	70		60 00t 22 A		16-Oct-22		-45			PFab 1-
E&I Installation           06-TPU-3-1250         PFab 1-Line 3 - E&I 3           06-TPU-3-1260         PFab 1-Line 3 - E&I 3           Electrical         06-TPU-3-1270           06-TPU-3-1280         PFab 1-Line 3 - Elect           06-TPU-3-1290         PFab 1-Line 3 - Elect		180	67		14-Apr-22 A	04-Feb-23	04-Nov-22	09-Jan-23	-26			
06-TPU-3-1250         PFab 1-Line 3 - E&I 5           06-TPU-3-1260         PFab 1-Line 3 - E&I 6           Electrical         O6-TPU-3-1270         PFab 1-Line 3 - Elect           06-TPU-3-1280         PFab 1-Line 3 - Elect           06-TPU-3-1290         PFab 1-Line 3 - Elect	Fabrication	180	67	62.78%	6 14-Apr-22 A	04-Feb-23	04-Nov-22	09-Jan-23	-26			PFab 1-Lin
06-TPU-3-1260         PFab 1-Line 3 - E&I (           Electrical         PFab 1-Line 3 - Elect           06-TPU-3-1270         PFab 1-Line 3 - Elect           06-TPU-3-1280         PFab 1-Line 3 - Elect           06-TPU-3-1290         PFab 1-Line 3 - Elect	Or an an at the shell of the	91	91			28-Feb-23	04-Nov-22		-45		00 Nov 00t	13-Jan-23, PFab 1-Line 3 - E&I S
Electrical           06-TPU-3-1270         PFab 1-Line 3 - Elect           06-TPU-3-1280         PFab 1-Line 3 - Elect           06-TPU-3-1290         PFab 1-Line 3 - Elect		45	45 45		30-Nov-22*		04-Nov-22 11-Nov-22		-26 -45		30-Nov-22*	26-Dec-22 08-Feb
06-TPU-3-1270         PFab 1-Line 3 - Elect           06-TPU-3-1280         PFab 1-Line 3 - Elect           06-TPU-3-1290         PFab 1-Line 3 - Elect		55	43 55			28-Feb-23	21-Nov-22		-45			
06-TPU-3-1290 PFab 1-Line 3 - Elect	trical Cable Pulling and Termination	30	30		6 30-Jan-23	28-Feb-23	16-Dec-22		-45			30-Jan-23
	trical Equipment Installation	26	26	0%	6 09-Jan-23	03-Feb-23	25-Nov-22	20-Dec-22	-45			09-Jan-23 03-Feb-23, F
	strical Heat Tracing Installation	26	26	0%	6 09-Jan-23	03-Feb-23	25-Nov-22	20-Dec-22	-45			09-Jan-23 03-Feb-23, F
06-TPU-3-1330     PFab 1-Line 3 - MCC	C room installation	25	25		6 05-Jan-23*		21-Nov-22		-45			05-Jan-23* 29-Jan-23, PFab
Instrument	ument Cable Bulling and Termination	51	51			28-Feb-23	25-Nov-22		-45			20 Jan 22
	rument Cable Pulling and Termination rument Equipment Installation	30 26	30 26		6 30-Jan-23 6 09-Jan-23	28-Feb-23 03-Feb-23	16-Dec-22 25-Nov-22	14-Jan-23 20-Dec-22	-45 -45			30-Jan-23 09-Jan-23 03-Feb-23.1
	rument Tubing Installation	26	26		6 09-Jan-23	03-Feb-23	25-Nov-22		-45			09-Jan-23 03-Feb-23, 1
Insulation		150	68			28-Feb-23	08-Nov-22		-45			
06-TPU-3-1010 PFab 1-Line 3 - Insul	lation	150	68	54.67%	6 23-May-22	28-Feb-23	08-Nov-22	14-Jan-23	-45			
Precommissioning		60	60			15-Mar-23		29-Jan-23	-45			
06-TPU-3-1020 PFab 1-Line 3 - Pre-0	commissioning	60	60		6 15-Jan-23		_	29-Jan-23	-45			15-Jan-23
Load out & Shipping06-TPU-3-1030PFab 1-Line 3 - Load	d out & ready to ship	20 20	20 20		16-Mar-23 6 16-Mar-23		30-Jan-23 30-Jan-23		-45 -45			
Delivery	2 ··· · · · ·	10	10	57		14-Apr-23	_	28-Feb-23	-45			
06-TPU-3-1340 PFab 1-Line 3 - Deliv	very	10	10	0%	6 05-Apr-23			28-Feb-23	-45			
PFab 1- Line 4		650	132		_	10-Apr-23			-34			
Structure Fabrication	any Structure Echricotion	200	10			09-Dec-22			58			09-Dec-22, PFab 1-Line 4 - Tertiary Structure Fabrication, PFab 1-Lin
06-TPU-4-1160 PFab 1-Line 4 - Tertia Structure Erection	ary Structure Fabrication	200 113	10 32			09-Dec-22 31-Dec-22			58 36			US-DEC-22, Frau I-Line 4 - lettlary Structure Fabrication, PFab 1-Line
	Floor(EL47.22m~EL54.47m) Prim ary & Secondary Steel Structure Erection	32	32 11			10-Dec-22			-30			PFab 1-Line 4 - Top;Floor(EL47.22m~EL54.47m) Primary & Second
onth Rolling Program							aining Work			ual Milestone		

D       Vol. Model       Part Model	古 盲 五 格 新 - 板 華 慰 苓 KEPPELSEGNERS-ZHEN HUAJOINT VE	会 考 (NTCRE							Integrated	Waste Manag	ement Facilities, I	Phase 1 Environmental Protection
2000000000000000000000000000000000000		Activity Name	Original Duration	Remaining Duration	Activity % Current Sta Complete	t Current Finish	Late Start	Late Finish	Total Float M60 Remarks			Jan Feb
Numerican         Numerican <t< td=""><td>06-TPU-4-1150</td><td>PFab 1-Line 4 - Tertiary Structure Erection</td><td>90</td><td>32</td><td>64.44% 01-Apr-</td><td>22 A 31-Dec-22</td><td>05-Jan-23</td><td>05-Feb-23</td><td>36</td><td></td><td></td><td>31-Dec-22, PFab 1-Line 4 - Tertiary Structure E</td></t<>	06-TPU-4-1150	PFab 1-Line 4 - Tertiary Structure Erection	90	32	64.44% 01-Apr-	22 A 31-Dec-22	05-Jan-23	05-Feb-23	36			31-Dec-22, PFab 1-Line 4 - Tertiary Structure E
BC 1.6         The last is standarding is starting in the Last is marked in th	Mechanical Erection		331	50	09-Jan-	22 A 18-Jan-23	27-Oct-22	15-Dec-22	-34			
	06-TPU-4-1040										PFab 1-Lin	e 4 Mechanical Installation - 1st Floor (Below EL2
				-								PFab 1-Line 4 - Mechanical Installatio
	-			-						30-Nov-2		
$ \begin{array}{                                    $	06-TPU-4-1240									00 1107 2		PFab 1-Line 4 - Mechanical Installation - B
Production         Product	Piping Fabrication			25	09-Mar-	21 A 24-Dec-22	27-Oct-22	20-Nov-22	-34			
minimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimumminimum<	06-TPU-4-1220	PFab 1-Line 4 - Piping Fabrication	180	25				20-Nov-22	-		PI	Fab 1-Line 4 - Piping Fabrication, 24-Dec-22, 24-De
Difference       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	Piping Installation	DEab 1 Line 4 Diving Installation		-							15 Dec 00*	
100 2 Joint 2 Mail Let Single Mathematican (1990) 100 100 100 100 100 100 100 100 100 1		Prao I-Line 4 - Piping Instanation									15-Dec-22	
All of a constraints         All of a	06-TPU-4-1230	PFab 1-Line 4 - E&I Fabrication			· · · ·							PFab 1-Line 4 - E&I Fabrication, 06-Jan
a = Y = 0.000       m = 10.000 Lub & solution       m = 0.000 Lub & solut       m = 0.000 Lub & solution <td>E&amp;I Installation</td> <td></td> <td>65</td> <td>65</td> <td>22-Dec-</td> <td>22 24-Feb-23</td> <td>18-Nov-22</td> <td>21-Jan-23</td> <td>-34</td> <td></td> <td></td> <td></td>	E&I Installation		65	65	22-Dec-	22 24-Feb-23	18-Nov-22	21-Jan-23	-34			
a = Y = 0.000       m = 10.000 Lub & solution       m = 0.000 Lub & solut       m = 0.000 Lub & solution <td>06-TPU-4-1250</td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>22-Dec-22*</td> <td>04-Feb-23</td>	06-TPU-4-1250		-	-							22-Dec-22*	04-Feb-23
a No. 4         Pole Late Stand Adulphings Name         B         B         0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0		PFab 1-Line 4 - E&I Cable Ladder Erection									29-Dec-22	11-
		PFab 1-Line 4 - Electrical Cable Pulling and Termination										26-Jan-23
Photo         Photo H V Core register	06-TPU-4-1280											····
	06-TPU-4-1290	PFab 1-Line 4 - Electrical Heat Tracing Installation	26	26	0% 12-Jan-	23 06-Feb-23	09-Dec-22	03-Jan-23	-34			12-Jan-23 06-Feb-2
	06-TPU-4-1330	PFab 1-Line 4 - MCC room installation	25	25	0% 30-Dec-	22* 23-Jan-23	26-Nov-22	20-Dec-22	-34			
	Instrument	DE-b. 4 Line 4. Jackware and Oakle Delline and Transientice										
1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1												
	06-TPU-4-1320		-									
0 P10-100       P100-100       P10-100       P10-100 <td>Insulation</td> <td></td>	Insulation											
Processe	06-TPU-4-1010	PFab 1-Line 4 - Insulation	150	87	42% 25-May-	22 24-Feb-23	27-Oct-22	21-Jan-23	-34			
up the let year	Precommissioning											
0 mm		PFab 1-Line 4 - Pre-commissioning										
Subset	06-TPU-4-1030	PFab 1-Line 4 - Load Out & ready to ship										
refact statistic         refact statistic <threfact statistic<="" th=""> <threfact statistic<="" t<="" td=""><td>Delivery</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></threfact></threfact>	Delivery											
Since we	06-TPU-4-1340	PFab 1-Line 4 - Delivery	10	10			26-Feb-23	07-Mar-23	-34			
9 m 3 m 4 m 5 m 3 m 3 m 5 m 5 m 5 m 5 m 5 m 5 m 5	PFab 1- Line 5											
Statuse		PEah 1. Line 5. Tertiany Structure Extrication										28- Jan-23 PEab
0 0 m10 + 100 m100 m100 m100 m100 m100 m								· · · ·			L	
9 or Protection       Products - der Products Product	06-TPU-5-1110	PFab 1-Line 5 - 2nd Floor(EL20.47m~EL26.72m) Primary & Secondary Steel Structure Erection									PFab 1-Line 5 -	2nd Floor(EL20.47m~EL26.72m) Primary & Second
0 mTV-5130       PFa Lues 5 with Two/LUX 2mm (Luf 2mm) Trans 4 Bookadar (Set Shucker Exection       0       0       0       15 Jame 2	06-TPU-5-1120	PFab 1-Line 5 - 3rd Floor( EL26.72m~EL37.72m)Primary & Secondary Steel Structure Erection	60	60	0% 13-Dec-	22* 10-Feb-23	24-Oct-22	22-Dec-22	-50		13-Dec-22*	10-F
10       10       10       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	06-TPU-5-1130		60	60	0% 15-Jan-	23 15-Mar-23	26-Nov-22	24-Jan-23				15-Jan-23
Number of Part Line 5       Description (splice) (spl	06-TPU-5-1140											
9 0. 70 U-5040       9 0.70 U-5040       9 0.70 U-5050       9 0.70 U-5050       9 0.70 U-5050       9 7.60 U-50500       9 7.60 U-50500       9 7.60 U-50500       9 7.60 U-5	-	PFab 1-Line 5 - lertiary Structure Erection						· · ·				
9 m P 10 1000       P Fa 1 Line 5       Part 1 Line 5		PFab 1-Line 5 - Mechanical Installation - 1st Floor (Below EL20.47m) (Including Combustion Grate)										19-Jan-23. PFab 1-Line 5 -
9 0 PP 10 File 5 - Machina Industrial Prove File 72m - FIL2 200 (notwing ArDucs)       00       00       00 Pile 5 - 100       00       00       00 Pile 5 - 100       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00       00	06-TPU-5-1050											
9 m Pris Fuller 5-Mechanical tradition - Biole Uniting & Installation - Biole Uniting & Insta	06-TPU-5-1060	PFab 1-Line 5 - Mechanical Installation - 3rd Floor( EL26.72m~EL37.72m) (Including Boiler Ash Transport)	80	80	0% 12-Jan-	23 01-Apr-23	11-Dec-22	28-Feb-23	-32			12-Jan-23
Particit	06-TPU-5-1070	PFab 1-Line 5 - Mechanical Installation - 4th Floor(EL37.72m~EL47.22m) (Including Air Ducts)	80	80	0% 30-Jan-	23 19-Apr-23	11-Dec-22	28-Feb-23	-50			30-Jan-23
9 Prati 1-tine 5 - Priority Fabrication       10       28       87.78%       24.Mar 24       21.02-22       40.40-22       45.04-23       45.7         9 Priority 1-tine 5 - Priority fabrication, 24.Dec 2, 24.Dec 2       94.04-22       65.40-22       64.40-23       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7       65.7	06-TPU-5-1240	PFab 1-Line 5 - Mechanical Installation - Boiler Lifting & Installation										15-Jan-23*
Pipe for sublision         Pipe fo	Piping Fabrication	PEab 1 Line F. Dining Entrication									DEah	Line 5 Diplog Entrination 21 Dec 22 21 Dec 2
9 Pib 1-Line 5 Pipting Installation       121       0% 10 20 Jan 20       0% Nu 22	-	Prab I-Line 5 - Piping Pabrication									Prac	
EAF Babication       100       91       14-Apr:2A       28-Fab-2a       27-Abar-2a       27       100       100       91       14-Apr:2A       28-Fab-2a       27-Abar-2a       27       100       100       100       91       44-Apr:2A       28-Fab-2a       27-Abar-2a	06-TPU-5-1000	PFab 1-Line 5 - Piping Installation										23
EA Instantation       Model	E&I Fabrication		180	91			27-Dec-22	27-Mar-23	27			
06-TPU-5-1280       PFab 1-Line 5 - E&I Support Listalization       45       45       0%       01-Mar -23       14-Apr -23       14-	06-TPU-5-1230	PFab 1-Line 5 - E&I Fabrication	180	91	49.44% 14-Apr-	22 A 28-Feb-23	27-Dec-22	27-Mar-23	27			
06-TPU-5-1200       PFab 1-Line 5 - Edd Cable Ladder Erection       445       45       0%       01-Mar-23       14 Apr-23       03-Jan-23       16-Feb-23       -57         06-TPU-5-1270       PFab 1-Line 5 - Electrical Cable Pulling and Termination       56       58       22-Mar-23       21-Mar-23       22-Mar-23       25-7	E&I Installation			86								
Electrical       58       58       22 Mar 23       18 May 23       24 Jan 23       16 May 24       -57             57             57            57          57          57          57          57          57          57         57												
06-TPU-5-1270       PFab 1-Line 5 - Electrical Equipment Installation       30       30       0%       19-Apr-23       18-May-23       21-Feb-23       22-Mar-23       5-7       1         06-TPU-5-1280       PFab 1-Line 5 - Electrical Equipment Installation       26       26       0%       05-Apr-23       07-Feb-23       27-Feb-23       2-For       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1												
06-TPU-5-1280       PFab 1-Line 5 - Electrical Heat Tracing Irstallation       26       26       06       05-Apr-23       02-Feb-23       07-Feb-23       0-Feb-23	06-TPU-5-1270	PFab 1-Line 5 - Electrical Cable Pulling and Termination										
06-TPU-5-1290       PFab 1-Line 5 - Bickvical Heat Tracing Installation       26       26       0%       05-Apr-23       30-Apr-23       07-Feb-23       24-Mar-23       5-57       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	06-TPU-5-1280											
Instrument         44         44         44         05-Apr-23         18-May-23         07-Feb-23         22-Mar-23         -57           06-TPU-5-1300         PFab 1-Line 5 - Instrument Cable Pulling and Termination         30         30         0%         19-Apr-23         18-May-23         21-Feb-23         22-Mar-23         -57           06-TPU-5-1310         PFab 1-Line 5 - Instrument Equipment Installation         26         26         0%         05-Apr-23         30-Apr-23         30-Apr-23         07-Feb-23         24-Mar-23         -57           06-TPU-5-1300         PFab 1-Line 5 - Instrument Tubing Installation         26         26         0%         05-Apr-23         30-Apr-23         30-Apr-23         07-Feb-23         24-Mar-23         -57           06-TPU-5-1300         PFab 1-Line 5 - Instrument Tubing Installation         26         26         0%         06-Apr-23         30-Apr-23         37-Cet-23         04-Mar-23         -57           06-TPU-5-1010         PFab 1-Line 5 - Insulation         150         143         04-Jun-22A         18-May-23         31-Oct-22         24-Mar-23         -57           06-TPU-5-1010         PFab 1-Line 5 - Insulation         150         143         4.67%         04-Jun-22A         18-May-23         31-Oct-22         24-Mar-23	06-TPU-5-1290	PFab 1-Line 5 - Electrical Heat Tracing Installation	26	26	0% 05-Apr-	23 30-Apr-23	07-Feb-23	04-Mar-23	-57			
06-TPU-5-1300       PFab 1-Line 5 - Instrument Cable Pulling and Termination       30       30       0%       19-Apr-23       18-May-23       21-Feb-23       22-Mar-23       -57         06-TPU-5-1310       PFab 1-Line 5 - Instrument Equipment Installation       26       26       0%       05-Apr-23       30-Apr-23       07-Feb-23       04-Mar-23       -57         06-TPU-5-1320       PFab 1-Line 5 - Instrument Tubing Installation       26       26       0%       05-Apr-23       07-Feb-23       04-Mar-23       -57         06-TPU-5-1320       PFab 1-Line 5 - Instrument Tubing Installation       26       26       0%       05-Apr-23       07-Feb-23       04-Mar-23       -57         06-TPU-5-1010       PFab 1-Line 5 - Insulation       150       143       04-Jun-22A       18-May-23       17-Cet-22       22-Mar-23       -57         Insulation         O 6-TPU-5-1010       PFab 1-Line 5 - Insulation       150       143       04-Jun-22A       18-May-23       31-Oct-22       22-Mar-23       -57         Insulation       150       143       04-Jun-22A       18-May-23       31-Oct-22       22-Mar-23       -57         Insulation         Actual Work       Actual Work       Actual Work	06-TPU-5-1330	PFab 1-Line 5 - MCC room installation										
06-TPU-5-1310       PFab 1-Line 5 - Instrument Equipment Installation       26       26       0%       05-Apr-23       30-Apr-23       07-Feb-23       04-Mar-23       -57       Image: Construment Tubing Installation       100       100       100       04-Mar-23       04-Mar-23 <td>Instrument</td> <td>DEab 1 Line 5 Instrument Cable Dulling and Termination</td> <td></td>	Instrument	DEab 1 Line 5 Instrument Cable Dulling and Termination										
06-TPU-5-1320       PFab 1-Line 5 - Instrument Tubing Installation       26       0%       05-Apr-23       07-Feb-23       04-Mar-23       -57         Insulation       150       143       04-Jun-22A       18-May-23       31-Oct-22       22-Mar-23       -57         06-TPU-5-1010       PFab 1-Line 5 - Insulation       150       143       4.67%       04-Jun-22A       18-May-23       31-Oct-22       22-Mar-23       -57         06-TPU-5-1010       PFab 1-Line 5 - Insulation       150       143       4.67%       04-Jun-22A       18-May-23       31-Oct-22       22-Mar-23       -57         Insulation       150       143       4.67%       04-Jun-22A       18-May-23       31-Oct-22       22-Mar-23       -57       -57         Insulation       150       143       4.67%       04-Jun-22A       18-May-23       31-Oct-22       22-Mar-23       -57       -57         Insulation       150       143       4.67%       04-Jun-22A       18-May-23       1-57       -57       -57         Insulation       Insulation       Insulation       Insulation       Insulation       -57       -57       -57       -57         Insulation       Insulation       Insulation       Insulation       -57 <td></td> <td>•</td> <td></td> <td></td> <td>· · ·</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		•			· · ·							
Insulation       150       143       04-Jun-22 A       18-May-23       31-Oct-22       22-Mar-23       -57         06-TPU-5-1010       PFab 1-Line 5 - Insulation       150       143       4.67%       04-Jun-22 A       18-May-23       31-Oct-22       22-Mar-23       -57         Ionth Rolling Programme (November 2022)       Image: Comparison of the second secon					· ·							
06-TPU-5-1010       PFab 1-Line 5 - Insulation       150       143       4.67%       04-Jun-22 A       18-May-23       31-Oct-22       22-Mar-23       -57         Ionth Rolling Programme (November 2022)       8 of 17       Remaining Work	Insulation											
Actual Work	06-TPU-5-1010	PFab 1-Line 5 - Insulation									<u> </u>	· · · · · · · · · · · · · · · · · · ·
Actual Work												
Actual Work	Ionth Rolling	Programme (November 2022)			🗖	Rem	aining Work	♦	Actual Milestone			
8 8 0T 1/		JI I OGIUIIII (NOVEIIIDEI LOLL)				Actu	Work	۲	Critical Mileston	9		
	e 8 of 17							•				

<b>3-M</b>	ont	h Rolling	Programme	(November	2022)
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06-Feb-23 06-Apr-23		
06-Feb-23 06-Apr-23	3 -57	60
06-Feb-23 06-Apr-23	3 -57	
01-Nov-22 21-Apr-23 05-Apr-23 21-Apr-23		
05-Apr-23 21-Apr-23 05-Apr-23 21-Apr-23		
02-Dec-22 13-Apr-23		
02-Dec-22 03-Dec-22		
13-Dec-22 13-Dec-22		
15-Dec-22 27-Dec-22 28-Dec-22 26-Jan-23		
14-Feb-23 13-Apr-23	-	
12-Nov-22 11-Feb-23	3 -24	
21-Dec-22 17-Jan-23		
21-Dec-22 11-Feb-23		
21-Dec-22 14-Jan-23 12-Nov-22 30-Jan-23		11-D
15-Dec-22 06-Feb-23		5-Nov-22 A
01-Nov-22 22-Nov-22		
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13-Dec-22 12-Mar-23		
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06-Nov-22 09-Mar-23		
24-Jan-23 16-Mar-23	-29	
24-Jan-23 09-Mar-23		
31-Jan-23 16-Mar-23		
27-Jan-23 11-Mar-23 14-Feb-23 11-Mar-23		
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27-Jan-23 20-Feb-23	-29	
14-Feb-23 11-Mar-23		
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13-Feb-23 13-Apr-23	3 -29	
13-Feb-23 13-Apr-23		
14-Oct-22 10-Jun-23 14-Oct-22 06-Feb-23		
16-Jan-23 27-Jan-23		
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22-Oct-22 16-Nov-22		
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27-Oct-22 15-Nov-22		
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20-Oct-22 23-Dec-22 20-Oct-22		06-Dec-22
27-Oct-22 10-Dec-22		1
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	14-Oct-22 23-Dec-2	14-Oct-22         23-Dec-22         -47           14-Oct-22         23-Dec-22         -47           ining Work         Actual N

	nct No. EP/SF t Facilities, P			保護署 nmental Protection Department
2022	Dec 61		2023 Jan 62	Feb 63
		PFab 1-Line 6 -		Fabrication, PFab 1-Line 6
01-1	I 12-Dec-22, PFab	1-Line 6 - 3rd I	Floor( EL26.72m~ I-Line 6 - 4th Floo 24-Ja	Primary & Secondary Stee EL37.72m)Primary & Seco r(EL37.72m ~ EL47.22m) Pri n-23, PFab 1-Line 6 - Top F -Jan-23, PFab 1-Line 6 - Te
	24-[		0 1-Line 6 - Mecha	nical Installation - 1st Floor 3, PFab 1-Line 6 - Mechani al Installation - 3rd Floor( E
11-Dec-22	2*			
		Line 6 - Piping 1-Jan-23	Fabrication, 21-D	ec-22, 21-Dec-22, PFab 1-L
				22-Feb-23* 01-Mar-23
				25-Feb-23*
	11-Dec-22, PFab	29-Dec-22, PF	ab 2-Line 1 - Top	cation, PFab 2-Line 1 - Terti Floor Primary & Secondary ne 1 - Tertiary Structure Erec
F	PFab 2-Line 1 - 2nd Floo	r (EL12.47~ EL ab 2-Line 1 - 3r	23.47m) (Includin d Floor (EL23.47~	lencer ID fan), 04-Dec-22, 0 g Dosing system bicar), 04- EL34.47m) (Including Ash L34.47~ EL44.22m) (Includi
	PFab 2-Line 1 - I			P-Dec-22, PFab 2-Line 1 - Pi PFab 2-Line 1 - Piping Insta
		;		·····
	PFab 2-L	ne1-E&IFab	rication, 19-Dec-2	2, 19-Dec-22, PFab 2-Line 1
6-Dec-22*	-22			PFab 2-Line 1 - E&I Suppo Jan-23, PFab 2-Line 1 - E&I
16-D	1( 27-Dec-22 27-Dec-22	-Jan-23	21-Jan-2	08-Feb-23, PFab 2 23, PFab 2-Line 1 - Electrica 23, PFab 2-Line 1 - Electrica 23, PFab 2-Line 1 - Electrica 24, Ine 1 - MCC room installatio
	10 27-Dec-22 27-Dec-22	-Jan-23		08-Feb-23, PFab 2 23, PFab 2-Line 1 - Instrume 23, PFab 2-Line 1 - Instrume
		·····		PFab 2-Line 1 - In

	Activity Name	Original Duration	Remaining Duration	Activity % Complete	Current Start	Current Finish	Late Start	Late Finish	Total Float M60 Remarks	Nov	
Precommissioning		60	60		26-Dec-22	23-Feb-23	09-Nov-22	07-Jan-23	-47	60	
06-FGC-1-1190	PFab 2-Line 1 - Pre-commissioning	60	60	0%	26-Dec-22	23-Feb-23	09-Nov-22	07-Jan-23	-47		
Load out & Shipping	DE-h Oliza di Land Old Aura data alta	20	20	00/	24-Feb-23	15-Mar-23	08-Jan-23	27-Jan-23	-47		
06-FGC-1-1200 Delivery	PFab 2-Line 1 - Load Out & ready to ship	20	20 10	0%	24-Feb-23 16-Mar-23	15-Mar-23 25-Mar-23	08-Jan-23 28-Jan-23	27-Jan-23 06-Feb-23	-47 -47		
06-FGC-1-1320	PFab 2-Line 1 - Delivery	10	10	0%	16-Mar-23	25-Mar-23	28-Jan-23	06-Feb-23	-47		
PFab 2 - Line 2		634	116		03-Jun-21 A	25-Mar-23	21-Oct-22	13-Feb-23	-40		
Structure Fabrication	DEsk Oliver O. Teskaw Oliverkar Eskalenter	180	17			16-Dec-22	29-Dec-22		29		
06-FGC-2-1040 Structure Erection	PFab 2-Line 2 - Tertiary Structure Fabrication	180	17 41	90.56%		16-Dec-22 09-Jan-23	29-Dec-22 15-Dec-22	15-Jan-23 25-Jan-23	29 15		
06-FGC-2-1100	PFab 2-Line 2 - Top Floor Primary & Secondary Steel Structure Erection	60	31	48.33%		30-Dec-22	15-Dec-22	15-Jan-23	15		
06-FGC-2-1110	PFab 2-Line 2 - Tertiary Structure Erection	90	15	83.33%	01-Sep-22 /	09-Jan-23	10-Jan-23	25-Jan-23	15		
Mechanical Erection		272	34			02-Jan-23	23-Oct-22	26-Nov-22	-38		
06-FGC-2-1120	PFab 2-Line 2 - 1st Floor (Below EL12.47m) (Including Silencer ID fan)	60	12			11-Dec-22	14-Nov-22	26-Nov-22	-16		
06-FGC-2-1130	PFab 2-Line 2 - 2nd Floor (EL12.47~ EL23.47m) (Including Dosing system bicar) PFab 2-Line 2 - 3rd Floor (EL23.47~ EL34.47m) (Including As h and residue to solid fication)	60	2			11-Dec-22	24-Nov-22 31-Oct-22	26-Nov-22 26-Nov-22	-16		
06-FGC-2-1140 06-FGC-2-1150	PFab 2-Line 2 - 4th Floor (EL23.47~ EL44.22m) (Including As hand residue to so including) PFab 2-Line 2 - 4th Floor (EL34.47~ EL44.22m) (Including Urea to ammonia convertor)	60 50	26 34		03-Jun-22 A	25-Dec-22	23-Oct-22	26-Nov-22 26-Nov-22	-30 -38		
Piping Fabrication		180	35			03-Jan-23	21-Oct-22	25-Nov-22	-40		
06-FGC-2-1210	PFab 2-Line 2 - Piping Fabrication	180	35	80.56%	03-Jun-21 A	03-Jan-23	21-Oct-22	25-Nov-22	-40		
Piping Installation		150	51		-	19-Jan-23	21-Oct-22	11-Dec-22	-40		
06-FGC-2-1000	PFab 2-Line 2 - Piping Installation	150	51	65.98%	12-Aug-22 A		21-Oct-22	11-Dec-22	-40		
E&I Fabrication 06-FGC-2-1220	PFab 2-Line 2 - E&I Fabrication	180 180	68 68	62 22%		05-Feb-23 05-Feb-23	01-Nov-22 01-Nov-22	08-Jan-23 08-Jan-23	-29 -29		
E&I Installation		65	65	02.22 /8	11-Dec-22		01-Nov-22	05-Jan-23	-29		
06-FGC-2-1230	PFab 2-Line 2 - E&I Support Installation	45	45	0%	11-Dec-22*		01-Nov-22	16-Dec-22	-40		1
06-FGC-2-1240	PFab 2-Line 2 - E&I Cable Ladder Erection	45	45	0%	18-Dec-22	31-Jan-23	08-Nov-22	23-Dec-22	-40		
Electrical		53	53		23-Dec-22	13-Feb-23	13-Nov-22	05-Jan-23	-40		
06-FGC-2-1250	PFab 2-Line 2 - Electrical Cable Pulling and Termination	30	30		15-Jan-23	13-Feb-23	06-Dec-22	05-Jan-23	-40		
<ul> <li>06-FGC-2-1260</li> <li>06-FGC-2-1270</li> </ul>	PFab 2-Line 2 - Electrical Equipment Installation PFab 2-Line 2 - Electrical Heat Tracing Installation	26	26 26		01-Jan-23 01-Jan-23	26-Jan-23 26-Jan-23	22-Nov-22 22-Nov-22	18-Dec-22 18-Dec-22	-40 -40		
06-FGC-2-1310	PFab 2-Line 2 - MCC room installation	25	25		23-Dec-22*	16-Jan-23	13-Nov-22	08-Dec-22	-40		
Instrument		44	44		01-Jan-23	13-Feb-23	22-Nov-22	05-Jan-23	-40		
06-FGC-2-1280	PFab 2-Line 2 - Instrument Cable Pulling and Termination	30	30	0%	15-Jan-23	13-Feb-23	06-Dec-22	05-Jan-23	-40		
06-FGC-2-1290	PFab 2-Line 2 - Instrument Equipment Installation	26	26	0%	01-Jan-23	26-Jan-23	22-Nov-22	18-Dec-22	-40		
06-FGC-2-1300	PFab 2-Line 2 - Instrument Tubing Installation	26	26	0%	01-Jan-23	26-Jan-23	22-Nov-22	18-Dec-22	-40		
Insulation 06-FGC-2-1010	PFab 2-Line 2 - Insulation	76 76	76 76	0%	30-Nov-22 30-Nov-22	13-Feb-23 13-Feb-23	21-Oct-22 21-Oct-22	05-Jan-23 05-Jan-23	-40 -40	20	)-Nov-22
Precommissioning		60	60	078	26-Dec-22	23-Feb-23	16-Nov-22	15-Jan-23	-40		
06-FGC-2-1020	PFab 2-Line 2 - Pre-commissioning	60	60	0%	26-Dec-22	23-Feb-23	16-Nov-22	15-Jan-23	-40		
Load out & Shipping		20	20		24-Feb-23	15-Mar-23	15-Jan-23	04-Feb-23	-40		
06-FGC-2-1030	PFab 2-Line 2 - Load Out & ready to ship	20	20	0%	24-Feb-23	15-Mar-23	15-Jan-23	04-Feb-23	-40		
Delivery 06-FGC-2-1320	PFab 2-Line 2 - Delivery	10 10	10 10	0%	16-Mar-23 16-Mar-23	25-Mar-23 25-Mar-23	04-Feb-23	13-Feb-23 13-Feb-23	-40 -40		
PFab 2 - Line 3		612					22-Nov-22		7		
Structure Fabrication		180	6			05-Dec-22		22-Mar-23	107		
06-FGC-3-1110	PFab 2-Line 3 - Tertiary Structure Fabrication	180	6	96.67%		05-Dec-22		22-Mar-23	107		
Structure Erection	DEab 0 Line 0. 4th Elect (El 04.47, El 44.00m) Drimony 9. Consender: Steel Structure Exercises	122	41	CO 070/		09-Jan-23		15-Mar-23	65		
06-FGC-3-1080 06-FGC-3-1090	PFab 2-Line 3 - 4th Floor (EL34.47~ EL44.22m) Primary & Secondary Steel Structure Erection PFab 2-Line 3 - Top Floor Primary & Secondary Steel Structure Erection	29 60	11 31			10-Dec-22 30-Dec-22	03-Feb-23	25-Dec-22 05-Mar-23	15 65		
06-FGC-3-1100	PFab 2-Line 3 - Tertiary Structure Erection	59	16			09-Jan-23	28-Feb-23	15-Mar-23	65		
Mechanical Erection	·	303	43			11-Jan-23	28-Nov-22	29-Jan-23	18		
06-FGC-3-1000	PFab 2-Line 3 - 1st Floor (Below EL12.47m) (Including Silencer ID fan)	60	12			11-Dec-22	18-Jan-23	29-Jan-23	49		
06-FGC-3-1010	PFab 2-Line 3 - 2nd Floor (EL12.47~ EL23.47m) (Including Dosing system bicar)	60	2			01-Dec-22	09-Dec-22		9		
06-FGC-3-1020	PFab 2-Line 3 - 3rd Floor (EL23.47~ EL34.47m) (Including Ash and residue to solid fication)	60	34		01-Sep-22 /		17-Dec-22		9		
06-FGC-3-1030 Piping Fabrication	PFab 2-Line 3 - 4th Floor (EL34.47~ EL44.22m) (Including Urea to ammonia convertor)	50 180	43 55		10-Sep-22	23-Jan-23	28-Nov-22 23-Nov-22	09-Jan-23 16-Jan-23	-2 -7		
06-FGC-3-1210	PFab 2-Line 3 - Piping Fabrication	180	55			23-Jan-23		16-Jan-23	-7		
Piping Installation		77	77			25-Feb-23	04-Dec-22		-7		
06-FGC-3-1150	PFab 2-Line 3 - Piping Installation	77	77	0%	11-Dec-22*	25-Feb-23	04-Dec-22	18-Feb-23	-7		
E&I Fabrication		180	93			02-Mar-23	28-Dec-22		28		
06-FGC-3-1220	PFab 2-Line 3 - E&I Fabrication	180	93 93	48.33%		02-Mar-23	28-Dec-22 28-Dec-22	30-Mar-23 02-Mar-23	28		
06-FGC-3-1230	PFab 2-Line 3 - E&I Support Installation	93 45		0%		10-Mar-23 18-Feb-23		10-Feb-23	-8 -8		
06-FGC-3-1240	PFab 2-Line 3 - E&I Cable Ladder Erection	45	45			25-Feb-23	04-Jan-23	17-Feb-23	-8		
Electrical		93	93			10-Mar-23	08-Jan-23	02-Mar-23	-8		
06-FGC-3-1250	PFab 2-Line 3 - Electrical Cable Pulling and Term ination	30	30			10-Mar-23	01-Feb-23	02-Mar-23	-8		
06-FGC-3-1260	PFab 2-Line 3 - Electrical Equipment Installation	26	26		26-Jan-23	20-Feb-23	18-Jan-23	12-Feb-23	-8		
06-FGC-3-1270	PFab 2-Line 3 - Electrical Heat Tracing Installation	26	26		26-Jan-23	20-Feb-23	18-Jan-23	12-Feb-23	-8		
JO-FGC-3-1310	Prau 2-Line 3 - MUU room Installation	25	25	0%	U8-Dec-22*	UI-Jan-23	us-Jan-23	UI-Feb-23	31		08-
<ul> <li>06-FGC-3-1310</li> <li>Ionth Rolling</li> <li>10 of 17</li> </ul>	p PFab 2-Line 3 - MCC room installation g Programme (November 2022)	25	25	0%	08-Dec-22*	Rema	08-Jan-23 aining Work al Work al Remainir	•	31 ♦ Actual M ♦ Critical M		

ct No. EP/SP Facilities, Pl		tenvira	保護署 nmental Protaction Dep	arlment
Dec 61		2023 Jan 62	Feb 63	
26-Dec-22				23
			24-Feb-23	3
16-Dec-22, P	ab 2-Line 2 - T	Fertiary Structure	Fabrication, PFab 2-	Line 2 -
			o Floor Primary & Se ine 2 - Tertiary Struct	
PFab 2-Line 2 - 2n	d Floor (EL12.4 b 2-Line 2 - 3rd	47~ EL23.47m) ( I Floor (EL23.47~	uding Silencer ID fan Including Dosing sys EL34.47m) (Includii L34.47~ EL44.22m)	tem bic ngAsh
	PFab 2-Li	ne 2 - Piping Fat	prication, 03-Jan-23, (	03-Jan-
		PFab 2-Li	ne 2 - Piping Installa	
Dec-22		24-Ja	PFab 2-Line 2 an-23, PFab 2-Line 2 31-Jan-23, PFab 2	- E&I S
01-Jan-23 01-Jan-23 23-Dec-22*	15-Jan-23	26-	13-Fe Jan-23, PFab 2-Line Jan-23, PFab 2-Line Fab 2-Line 2 - MCC r	2 - Eleo
01-Jan-23 01-Jan-23	15-Jan-23		13-Fe Jan-23, PFab 2-Line Jan-23, PFab 2-Line	
			13-Fe	eb-23, P
26-Dec-22			24-Feb-2:	23 3
		cture Fabrication		tiary Str
10-Dec-22, PFab 2-	30-Dec-22, PF	ab 2-Line 3 - Top	44.22m) Primary & S Floor Primary & Se ine 3 - Tertiary Struct	condary
11-Dec-22, PFab 2 ec-22, PFab 2-Line 3 - 2	nd Floor (EL12	.47~ EL23.47m) Jan-23, PFab 2-	.47m) (Including Sile (Including Dosing sy Line 3 - 3rd Floor (El n Floor (EL34.47~ EL	stem bi _23.47~
		PFab	2-Line 3 - Piping Fab	rication
				2
05-Jan-23 1	3* 2-Jan-23			18-Feb-
	20	6-Jan-23	eb-23	20-Fe 20-Fe
	² 0120al1223, f	- au 2-Ling 3 - N	iso room installation	

KEPPEL SEGRERS - ZHEN HUATOINT	Activity Name	Original Duration	Remaining Duration	Activity % Current Start Complete	Current Finish	Late Start	Late Finish	Total Float M60 Remarks	rated Waste Manage
		44	44	26-Jan-23	10-Mar-23	18-Jan-23	02-Mar-23	0	0 Nov
Instrument 06-FGC-3-1280	PFab 2-Line 3 - Instrument Cable Pulling and Termination	30	30	0% 09-Feb-23	10-Mar-23	01-Feb-23	02-Mar-23	-8 -8	
	PFab 2-Line 3 - Instrument Equipment Installation	26	26	0% 26-Jan-23	20-Feb-23	18-Jan-23	12-Feb-23	-8	
06-FGC-3-1300	PFab 2-Line 3 - Instrument Tubing Installation	26	26	0% 26-Jan-23	20-Feb-23	18-Jan-23	12-Feb-23	-8	
Insulation		102	102		11-Mar-23	22-Nov-22	03-Mar-23	-8	
06-FGC-3-1170	PFab 2-Line 3 - Insulation	102	102	0% 30-Nov-22	11-Mar-23	22-Nov-22	03-Mar-23	-8	30-Nov-22
Precommissioning 06-FGC-3-1180	PFab 2-Line 3 - Pre-commissioning	60	60 60	23-Jan-23 0% 23-Jan-23	23-Mar-23 23-Mar-23	15-Jan-23 15-Jan-23	15-Mar-23	-8	
PFab 2 - Line 4		625	107			06-Dec-22	09-Apr-23	24	
Structure Fabrication		180	45		13-Jan-23	24-Feb-23	09-Apr-23	86	
06-FGC-4-1150	PFab 2-Line 4 - Tertiary Structure Fabrication	180	45			24-Feb-23	09-Apr-23	86	
Structure Erection 06-FGC-4-1120	PFab 2-Line 4 - 4th Floor (EL34.47~ EL44.22m) Primary & Secondary Steel Structure Erection	250 60	43 6		11-Jan-23	26-Dec-22 26-Dec-22		70 26	
06-FGC-4-1130	PFab 2-Line 4 - Top Floor Primary & Secondary Steel Structure Erection	60	38			08-Feb-23	17-Mar-23	70	
06-FGC-4-1140	PFab 2-Line 4 - Tertiary Structure Erection	90	27	70% 14-Sep-22		24-Feb-23	22-Mar-23	70	
Mechanical Erection		263	36	· ·	A 04-Jan-23	06-Dec-22	12-Jan-23	8	
06-FGC-4-1040	PFab 2-Line 4 - 1st Floor (Below EL12.47m) (Including Silencer ID fan)	60	7	88.33% 24-Dec-21	A 06-Dec-22	27-Dec-22	02-Jan-23	27	
06-FGC-4-1050	PFab 2-Line 4 - 2nd Floor (EL12.47~ EL23.47m) (Including Dosing system bicar)	60	2	96.67% 04-Feb-22 A	01-Dec-22	22-Dec-22	23-Dec-22	22	
06-FGC-4-1060	PFab 2-Line 4 - 3rd Floor (EL23.47~ EL34.47m) (Including Ash and residue to solid fication)	60	26	56.67% 11-Feb-22 A		18-Dec-22	12-Jan-23	18	
06-FGC-4-1070	PFab 2-Line 4 - 4th Floor (EL34.47~ EL44.22m) (Including Urea to ammonia convertor)	60	36	40% 06-May-22		06-Dec-22	10-Jan-23	6	
Piping Fabrication     06-FGC-4-1210	PFab 2-Line 4 - Piping Fabrication	180 180	71 71		08-Feb-23	06-Dec-22 06-Dec-22	14-Feb-23 14-Feb-23	6	
Piping Installation		57	57		15-Feb-23	27-Dec-22		6	
06-FGC-4-1000	PFab 2-Line 4 - Piping Installation	57	57	0% 21-Dec-22*		27-Dec-22		6	
E&I Fabrication		180	50	14-Apr-22 A	18-Jan-23	28-Dec-22	15-Feb-23	28	
06-FGC-4-1220	PFab 2-Line 4 - E&I Fabrication	180	50	72.22% 14-Apr-22 A	18-Jan-23	28-Dec-22	15-Feb-23	28	
E&I Installation		65	65			28-Dec-22	02-Mar-23	6	
<ul> <li>06-FGC-4-1230</li> <li>06-FGC-4-1240</li> </ul>	PFab 2-Line 4 - E&I Support Installation	45	45 45	0% 22-Dec-22*	04-Feb-23 11-Feb-23	28-Dec-22 04-Jan-23	10-Feb-23 17-Feb-23	6	
Electrical	PFab 2-Line 4 - E&I Cable Ladder Erection	45	45	0% 29-Dec-22 01-Jan-23	24-Feb-23	04-Jan-23	02-Mar-23	6	
06-FGC-4-1250	PFab 2-Line 4 - Electrical Cable Pulling and Term ination	30	30	0% 26-Jan-23	24-Feb-23	01-Feb-23	02-Mar-23	6	
06-FGC-4-1260	PFab 2-Line 4 - Electrical Equipment Installation	26	26	0% 12-Jan-23	06-Feb-23	18-Jan-23	12-Feb-23	6	
06-FGC-4-1270	PFab 2-Line 4 - Electrical Heat Tracing Installation	26	26	0% 12-Jan-23	06-Feb-23	18-Jan-23	12-Feb-23	6	
06-FGC-4-1310	PFab 2-Line 4 - MCC room installation	25	25	0% 01-Jan-23*	25-Jan-23	07-Jan-23	31-Jan-23	6	
Instrument		44	44	12-Jan-23	24-Feb-23	18-Jan-23	02-Mar-23	6	
06-FGC-4-1280 06-FGC-4-1290	PFab 2-Line 4 - Instrument Cable Pulling and Termination PFab 2-Line 4 - Instrument Equipment Installation	30 26	30 26	0% 26-Jan-23 0% 12-Jan-23	24-Feb-23	01-Feb-23	02-Mar-23	6	
06-FGC-4-1290	PFab 2-Line 4 - Instrument Equipment Installation	26	26	0% 12-Jan-23	06-Feb-23 06-Feb-23	18-Jan-23 18-Jan-23	12-Feb-23 12-Feb-23	6	
Insulation		150	3			05-Mar-23	07-Mar-23	6	
06-FGC-4-1010	PFab 2-Line 4 - Insulation	150	3		01-Mar-23	05-Mar-23	07-Mar-23	6	
Precommissioning		60	60	16-Jan-23	16-Mar-23	22-Jan-23	22-Mar-23	6	
06-FGC-4-1020	PFab 2-Line 4 - Pre-commissioning	60	60		16-Mar-23	22-Jan-23	22-Mar-23	6	
PFab 2 - Line 5 Structure Fabrication		641 167	136 27		14-Apr-23 26-Dec-22	27-Nov-22	10-Jun-23 11-May-23	136	
06-FGC-5-1110	PFab 2-Line 5 - Tertiary Structure Fabrication	167	27				11-May-23	136	
Structure Erection		245	75	20-Apr-22 A	12-Feb-23	-	21-May-23	98	
06-FGC-5-1070	PFab 2-Line 5 - 3rd Floor(EL23.47~ EL34.47m) Primary & Secondary Steel Structure Erection	60	5	91.67% 20-Apr-22 A	04-Dec-22	13-Dec-22	17-Dec-22	13	
06-FGC-5-1080	PFab 2-Line 5 - 4th Floor (EL34.47~ EL44.22m) Primary & Secondary Steel Structure Erection	60	15			17-Dec-22		17	
06-FGC-5-1090	PFab 2-Line 5 - Top Floor Primary & Secondary Steel Structure Erection	60	60	0% 15-Dec-22		01-Jan-23	01-Mar-23	17	
06-FGC-5-1100	PFab 2-Line 5 - Tertiary Structure Erection	90	18	· · ·		-	21-May-23	136	
Mechanical Erection 06-FGC-5-1000	PFab 2-Line 5 - 1st Floor (Below EL12.47m) (Including Silencer ID fan)	353 60	79 13		16-Feb-23 12-Dec-22	06-Dec-22 06-Dec-22		13 6	
06-FGC-5-1010	PFab 2-Line 5 - 2nd Floor (EL12.47~ EL23.47m) (Including Orience) bitally	60	6			06-Dec-22		6	
06-FGC-5-1020	PFab 2-Line 5 - 3rd Floor (EL23.47~ EL34.47m) (Including As h and residue to solid fication)	60	55			18-Dec-22	10-Feb-23	13	
06-FGC-5-1030	PFab 2-Line 5 - 4th Floor (EL34.47~ EL44.22m) (Including Urea to ammonia convertor)	50	19	62% 07-Oct-22 A	16-Feb-23	11-Feb-23	01-Mar-23	13	
Piping Fabrication		180	85		22-Feb-23	02-Dec-22		2	
06-FGC-5-1170	PFab 2-Line 5 - Piping Fabrication	180	85				24-Feb-23	2	
Piping Installation 06-FGC-5-1190	PFab 2-Line 5 - Piping Installation	105 105	105 105			27-Nov-22 27-Nov-22	11-Mar-23 11-Mar-23	-3 -3	30-Nov-22*
E&I Fabrication		180	134		12-Apr-23	28-Jan-23	10-Jun-23	59	
06-FGC-5-1180	PFab 2-Line 5 - E&I Fabrication	180	134			28-Jan-23	10-Jun-23	59	
E&I Installation		52	52			28-Jan-23	20-Mar-23	-3	
06-FGC-5-1230	PFab 2-Line 5 - E&I Support Installation	45	45			28-Jan-23	13-Mar-23	-3	
06-FGC-5-1240	PFab 2-Line 5 - E&I Cable Ladder Erection	45	45			04-Feb-23		-3	
Electrical 06-FGC-5-1260	PFab 2-Line 5 - Electrical Equipment Installation	36 26	36 26	16-Feb-23 0% 26-Feb-23	23-Mar-23 23-Mar-23	14-Feb-23 23-Feb-23	20-Mar-23 20-Mar-23	-3 -3	
06-FGC-5-1260	PFab 2-Line 5 - Electrical Equipment Installation	26	26	0% 26-Feb-23	23-Mar-23 23-Mar-23	23-Feb-23 23-Feb-23	20-Mar-23	-3	
06-FGC-5-1310	PFab 2-Line 5 - MCC room installation	25	25			14-Feb-23	10-Mar-23	-2	
Instrument		26	26	26-Feb-23		23-Feb-23		-3	
_						aining Work		Actual N	lilestone
A 10 MM 111						anning vvork	· 🗸	V ACTUAL N	VIIICS LUI IC
Month Rollin	g Programme (November 2022)					al Work		<ul> <li>Critical</li> </ul>	

t No. EP/SP Facilities, Pl		C	堤項1 Environ 2023	保護者 Innential Protection Department
Dec 61		Jan 62		Feb 63
			09-F	eb-23
		26-Jan-23		20-F
		26-Jan-23		20-F
	÷			
	23.	Jan-23 📕		
		-Jan 25		
	·			
		13-Jan-23	, PFab	2-Line 4 - Tertiary Structure
5-Dec-22, PFab 2-Line				m) Primary & Secondary S
				4 - Top Floor Primary & Se
		11-Jan-23, I	PFab 2-	Line 4 - Tertiary Structure E
	*			(Including Silencer ID fan)
				(Including Dosing system b
25-L				r (EL23.47~ EL34.47m) (In - 4th Floor (EL34.47~ EL44
	U4-Jan	-20, PFaD 2-		- +u1 FIUUI (EL34.4/~ EL44
				08-Feb-23, PFab
				30 . 00 20, 11 ab
1-Dec-22*				15-Feb-23
		<b>18</b> -J	an-23, F	PFab 2-Line 4 - E&I Fabrica
				<u></u>
22-Dec-22*				04-Feb-23, PFab 2-Li
29-Dec-22 🗖				11-Feb-23, PF
		26-Jan-23		
	· · · · · · · · · · · · · · · · · · ·	20-Jan-23		2
	2-Jan-23 🗖 2-Jan-23 🗖			06-Feb-23, PFab 2- 06-Feb-23, PFab 2-
01-Jan-23*			25-1	an-23, PFab 2-Line 4 - MCC
01-041-20			20-00	
	·	26-Jan-23		2
1	2-Jan-23 🗖			06-Feb-23, PFab 2-
1	2-Jan-23 🔲			06-Feb-23, PFab 2-
	, , , ,			]
		<u></u>		
	16-Jan-23			
26-	Dec.22 PFal	2-line 5 -	Tortiory	Structure Fabrication, PFa
		52-Line 5 -		
-Dec-22, PFab 2-Line 5	- 3rd Floor(E	L23.47~ EL	.34.47m	) Primary & Secondary Ste
14-Dec-22, PFa		th Floor (El	34.47~	EL44.22m) Primary & Sec
:-22				12-Feb-23, P
	05-Jai	n-23, PFab		- Tertiary Structure Erectio
12-Dec-22, PFab	2-Line 5 - 1st	Floor (Belo	w EL12	2.47m) (Including Silencer I
5-Dec-22, PFab 2-Line	5 - 2nd Floor	(EL12.47~ I	EL23.47	m) (Including Dosing syste
			28	3-Jan-23, PFab 2-Line 5 - 3
				16-Feb-2
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				22-
	; 	31-Jan-	23*	
			07-Feb	-23
				26-Feb-23
				26-Feb-23
	· · · · · · · · · · · · · · · · · · ·			16-Feb-23*

OF-FGC-5-1290         PFab 2-Line 5- Instrument Equipment Installation         Cold		Activity Name	Original Duration	Remaining Duration	Activity % Current Start Complete	Current Finish	Late Start	Late Finish	Total Float M60 Remarks	s Nov	2022
Philip DecisionPhilip Decisi							00 5 1 00	00.14			
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BBBCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC <th< td=""><td>06-FGC-6-1140</td><td>PFab 2-Line 6 - 4th Floor (EL34.47~ EL44.22m) Primary &amp; Secondary Steel Structure Erection</td><td>60</td><td>4</td><td>93.33% 20-May-22</td><td>03-Dec-22</td><td>05-Jan-23</td><td>08-Jan-23</td><td>36</td><td></td><td></td></th<>	06-FGC-6-1140	PFab 2-Line 6 - 4th Floor (EL34.47~ EL44.22m) Primary & Secondary Steel Structure Erection	60	4	93.33% 20-May-22	03-Dec-22	05-Jan-23	08-Jan-23	36		
Note 1100Note 1100 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>· ·</td> <td></td> <td></td> <td>04-Dec-22</td>								· ·			04-Dec-22
MPCALS1 MPCALSIMAProbable Submittance Transmittance Tran		PFab 2-Line 6 - Tertiary Structure Erection			· ·			· ·			
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BATE ALT ALL ALT ALT ALT ALT ALT ALT ALT ALT	-	PFab 2-Line 6 - Piping Fabrication									
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Bit Proc 1-bit Bit SynchronizationSin StatusSin Status<		PFab 2-Line 6 - E&I Fabrication						-		30-'	-Nov-22*
abs Alumb - Ext Support antibilitiesbit Sbit S<	E&I Installation		65	65	02-Jan-23	07-Mar-23	30-Dec-22	04-Mar-23	-3		
ExampleSolutional of Marce 1Solutional of Marce 1Solu	06-FGC-6-1240	PFab 2-Line 6 - E&I Support Installation	45	45	0% 02-Jan-23	15-Feb-23	30-Dec-22	12-Feb-23	-3		
0       56:00:1000       Pisb 2 Line. Electron Galp Putag and methanism       30       300       70°, 60 fer 20       0.4447.2       0.5402.3       0.5         0       6:500.6 1200       Pisb 2 Line. Electron Galp Putag and methanism       26       0.6       0.5402.6 1200       0.5402.3       1.540.3       0.5       0.540.3       1.540.3       0.5         0:500.6 1200       Pisb 2 Line. Electron Galp Putag and methanism       25       0.6       0.540.6 1200       1.540.3       0.5       0.540.6 1200       0.540.6 1200       0.540.2 0       1.540.3       0.5       0.550.0 1200       0.550.2 0       1.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.540.2 0       0.550.2 0       0.540.2 0       0.550.2 0       0.550.2 0       0.550.2 0       0.550.2 0 </td <td></td> <td>PFab 2-Line 6 - E&amp;I Cable Ladder Erection</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td>		PFab 2-Line 6 - E&I Cable Ladder Erection							-		
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DF - GO - F100         PFab 2 Line 6 - Instrument Exignment Exig	Instrument		44	44	23-Jan-23	07-Mar-23	20-Jan-23	04-Mar-23	-3		
Best of the structure transmer		•		30	0% 06-Feb-23		03-Feb-23				
Institution         60 - Fig F											
0         PFib 2-Line 6 - Inculation         97-Bit 2-Line 6 - Inculation		PFab 2-Line 6 - Instrument Tubing Installation					_				
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Material Procurrent (FMR)         Field Procurrent (FMR)         Gene Procurrent (FMR)         GeneProcurrent (FMR)         Gene Procurrent (FMR)						·		· ·			
16 85002 (E):       Material Procurrent (IMA)       60       10       83.35%       30.449/22       16 90-co2       16 1.000-22       2.140-22       1.140-22         16 85005 (E):       Material Procurrent (IM2)       60       13       73.35%       30.449/22       2.160-22       1.140-22       2.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-22       1.140-23       1.140-23       1.140-23       1.140-23       1.140-23       1.140-23       1.140-23       1.140-23       1.140-23       1.140-									-16		
1 6 8000 (6E)       Material Procurrent (FM3)       Material Pesing (FM2)       21 000000000000000000000000000000000000											
Mathemati Testing         Status											
16 4500-10 (6E)       Material Testing (FM2)       Material Testing (FM3)       16 4000-122       17 3-33%       15 - Jun-23       18 - Jun-23		Material Procurment (FM3)	45	11	75.56% 21-Aug-22	A 23-Dec-22	27-Nov-22	07-Dec-22	-16		
i 6 4500 - 11 (E)        Material Testing (FM3)           6 4500 - 12 (E)           i 6 4500 - 12 (E)             i 6 4500 - 12 (E)           i 1 4 Hore 22           i 6 4500 - 12 (E)           i 1 4 Hore 2           i 1 4 Hore		Material Testing (FM2)	60	13	78.33% 25-Jun-22	A 21-Feb-23 A 11-Jan-23	18-Dec-22	30-Dec-22	-16		
16 4500-7 (6E)       Material Testing (BM2)       60       10       78 33%       65 -0c-22       60 -0c-22       70 -0c-22       60 -0c-22       70 -0c-22											
16 -800-9 (IC)       Material gesting (BM3)       Material gesting (BM3)       66				13							
Fabrication of Steel Structure (BM2) & Delivery         16         Concent of Steel Structure (BM2) & Delivery         16         Concent of Steel Structure (BM2) & Delivery         16           16 64500 (65)         Fabrication of Steel Structure (BM2) & Delivery         80         76         57         62 Feb-23         10 Feb-22         0 Feb-22         17 Fabrication of Steel Structure (BM2) & Delivery         16         30 Nov-22         17 Feb-23         14 Nove 22         22 Jan-23         16         30 Nov-22         16         30 Nov-22         16 Feb/23         16 Feb/23         16         30 Nov-22         16         30 Nov-22         17 Feb/23         14 Nove 22         22 Jan-23         16         30 Nov-22         16         30 Nov-22         16 Feb/23         16 Feb/23         16         30 Nov-22         <	16-8500-8 (6E)	Material Testing (BM3)	60	40	33.33% 05-Oct-22	A 08-Jan-23	18-Nov-22	27-Dec-22	-12		
16-6530 (6E)       Fabrication of Steel Structure (BM3) & Delivery       60       80       0%       09-Jan-23       29-Mar-23       28-Dec-22       17-Mar-23       1-12         16-6550 (6E)       Fabrication of Steel Structure (FM1) & Delivery       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60	-						_				
16 8540 (6E)       Fabrication of Steel Structure (FM1) & Delivery       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70       70 <t< td=""><td> ,</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	,										
16-8550 (6E)       Fabrication of Steel Structure (FM2) & Delivery       66       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       60       <											N
16-8550 (6E)       Fabrication of Steel Structure (FM3) & Delivery       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90       90 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
Heite Fabrication of Turbine Modules       614       120       29-Mar-20       29-Mar-23       30-Nov-22       29-Mar-23       0         Material Procurement       365       32       29-Mar-20       31-Dec-22       14-Fab-23       45         O6:106:3(1)       Electrical and Instrumentation Material Procurement (Incl. FAT)       365       32       91.23%       29-Mar-20       31-Dec-22       14-Jan-23       14-Fab-23       45         Fabrication of Module (Power Island)       570       120       26-Jul-21A       13-Feb-23       01-Dec-22       14-Fab-23       45         O6-4001(6)       Turbine Module 1 - Stam Turbine 1 Fabrication       570       120       26-Jul-21A       30-Poc-22       14-Fab-23       01-Dec-22       14-Fab-23       14         06-4010(6)       Turbine Module 1 - Stam Turbine 1 Fabrication       450       31       93.11%       26-Jul-21A       30-Poc-22       01-Dec-22       14-Fab-23       14         06-4040(6)       Turbine Module 1 - Ganerabr & Equipment hstallation       450       31       93.1%       26-Jul-21A       30-Poc-22       01-Dec-22       10-Dec-22	. ,										
Material Procurement       365       32       29-Mar-20A       31-Dec-22       14-Jan-23       14-Feb-23       45         06-1060-3(1)       Electrical and Instrumentation Material Procurement (Incl. FAT)       365       32       91.23%       29-Mar-20A       31-Dec-22       14-Jan-23       14-Feb-23       45         Fabrication of Module (Power Island)       570       120       29-Mar-20A       30-Nov-22       29-Mar-23       30-Nov-22       29-Mar-23       30-Nov-22       29-Mar-23       0         Turbine Module 1       Turbine Module 1 - Steam Turbine 1 Fabrication       570       120       26-Jul-21A       30-Feb-23       01-Dec-22       14-Feb-23       0         06-4010(6)       Turbine Module 1 - Generator 8 Equipment Installation       450       31       93.11%       26-Jul-21A       30-Dec-22       14-Feb-23       1         06-4040(6)       Turbine Module 1 - Generator 8 Equipment Installation       450       31       93.11%       26-Jul-21A       29-Dec-22       10-Dec-22       31-Dec-22       12       1         06-4040(6)       Turbine Module 1 - TBS Tower 1 Fabrication       450       16       90%       27-Aug-21 A       0-Dec-22       10-Dec-22       11-Dec-22       12-Dec-22       11       1         06-4040(6)       Turbine						-					
Fabrication of Module (Power Island)       570       120       26-Jul-21 A       29-Mar-23       30-Nov-22       29-Mar-23       0         Turbine Module 1       518       76       26-Jul-21 A       13-Feb-23       01-Dec-22       14-Feb-23       1         06-4010(6)       Turbine Module 1 - Steam Turbine 1 Fabrication       450       31       93.11%       26-Jul-21 A       30-Dec-22       01-Dec-22       31-Dec-22       1         06-4020(6)       Turbine Module 1 - Generator & Equipment hstallation       450       28       93.78%       31-Aug-21 A       29-Dec-22       04-Dec-22       31-Dec-22       2       2         06-4040(6)       Turbine Module 1 - TBS Tower 1 Fabrication       66       6       90%       27-Aug-21 A       05-Dec-22       01-Dec-22       01-Dec-22       01-Dec-22       01       2       04       2       04       2       04       2       04       2       04       2       04       2       04       2       04       2       04       06-022       01-Dec-22			365	32			14-Jan-23	14-Feb-23	45		
Turbine Module 1       State	06-1060-3(1)	Electrical and Instrumentation Material Procurement (Incl. FAT)	365	32	91.23% 29-Mar-20	A 31-Dec-22	14-Jan-23	14-Feb-23	45		
06-4010(6)       Turbine Module 1 - Steam Turbine 1 Fabrication       450       31       93.11%       26-Jul-21 A       30-Dec-22       01-Dec-22       1       1       1         06-4020(6)       Turbine Module 1 - Generator & Equipment hstallation       450       28       93.78%       31-Aug-21 A       29-Dec-22       04-Dec-22		er Island)									
06-4020(6)       Turbine Module 1 - Generator & Equipment hstallation       450       28       93.78%       31-Aug-21 A       29-Dec-22       04-Dec-22       31-Dec-22       2       1         06-4040(6)       Turbine Module 1 - TBS Tower 1 Fabrication       60       6       90%       27-Aug-21 A       05-Dec-22       01-Dec-22       06-Dec-22       01-Dec-22       06-Dec-22       01-Dec-22       06-Dec-22       01-Dec-22       06-Dec-22       01-Dec-22	-	Turbing Module 1. Strom Turbing 1 Ephrication				_		_			
06-4040(6)       Turbine Module 1 - TBS Tower 1 Fabrication       60       6       90%       27-Aug-21 A       05-Dec-22       01-Dec-22       06-Dec-22       1       1         06-4040-1(M55)       Turbine Module 1 - TBS Tower 1 Erection & Installation       31       25       19.35%       27-Aug-21 A       30-Dec-22       07-Dec-22       31-Dec-22       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1											
06-4040-1(M55)       Turbine Module 1 - TBS Tower 1 Erection & Installation       31       25       19.35%       27-Aug-21 A       30-Dec-22       07-Dec-22       1       1         06-4080(6)       Turbine Module 1 - Delivery       45       45       0%       31-Dec-22       13-Feb-23       11-Ereb-23       14-Feb-23       1         06-4080(6)       Turbine Module 2 - Steam Turbine 2 Fabrication       450       105       76.67%       26-Jul-21 A       14-Mar-23       30-Nov-22       14-Mar-23       0         06-4210(6)       Turbine Module 2 - Steam Turbine 2 Fabrication       450       105       76.67%       26-Jul-21 A       14-Mar-23       30-Nov-22       14-Mar-23       0         06-4220(6)       Turbine Module 2 - Generator & Equipment Installation       450       105       76.67%       07-Sep-21 A       14-Mar-23       30-Nov-22       14-Mar-23       0         06-4220(6)       Turbine Module 2 - Generator & Equipment Installation       450       105       76.67%       07-Sep-21 A       14-Mar-23       30-Nov-22       14-Mar-23       0       0         06-4220(6)       Turbine Module 2 - TBS Tower 2 Fabrication       46       15       67.39%       06-Sep-21 A       14-Dec-22       02-Dec-22       16-Dec-22       2       0 <td></td> <td></td> <td></td> <td></td> <td>ů</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>					ů						
06-4080(6)       Turbine Module 1 - Delivery       45       45       0%       31-Dec-22       13-Feb-23*       01-Jan-23       14-Feb-23       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1											
06-4210(6)         Turbine Module 2 - Steam Turbine 2 Fabrication         450         105         76.67%         26-Jul-21 A         14-Mar-23         30-Nov-22         14-Mar-23         0           06-4220(6)         Turbine Module 2 - Generator & Equipment Installation         450         105         76.67%         07-Sep-21 A         14-Mar-23         30-Nov-22         14-Mar-23         0           06-4220(6)         Turbine Module 2 - Generator & Equipment Installation         460         15         67.39%         06-Sep-21 A         14-Mar-23         20-Nov-22         14-Mar-23         0	· · · · ·	Turbine Module 1 - Delivery		45					1		
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O6-4240(6)         Turbine Module 2 - TBS Tower 2 Fabrication         46         15         67.39%         06-Sep-21 A         14-Dec-22         02-Dec-22         16-Dec-22         2											
06-4240-1 (M55) Turbine Module 2 - TBS Tower 2 Erection & Installation 88 88 0% 06-Sep-22 A 12-Mar-23 17-Dec-22 14-Mar-23 2	06-4240(6)				· ·						

3-Month Rolling	Programme	(November 2022)
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Remaining Work Actual Work

Critical Milestone

Critical Remaining Work

et         et         et         et           08-Dec-22, PFab 2-Line 6 - Tertiary Structure Fabrication, United ing Dosing sy 06-Jan-23, PFab 2-Line 6 - 20 Fabrication (EL12 47- EL23 47m) (Including Stencer ID Ian), Dec-22 00-Jan-23, PFab 2-Line 6 - 20 Fabrication (EL12 47- EL23 47m) (Including Stencer ID Ian), Dec-22 00-Jan-23, PFab 2-Line 6 - Piping 20-Jan-23 15-Feb-00-Jan-23 15-Feb-00-Jan-23 15-Feb-00-Jan-23 17-Fet 23-Jan-23 17-Fet 23-	Dec		Jan		2023	Feb	
08-Dec-22, PFab 2-Line 6 - Tertiary Structure Fabrication, PFab 2-Line 6 - Tertiary Structure, PFab 2-Line 6 - Structure, Tertiary Struc	61	-	62				Feb-23
Dec-22, PFab 2-Line 6 - 3rd Floor(EL23.47- EL34.47m) Primary & Secondary S 01-Feb-23, PFab 2-Line 6 00-Feb-23, PFab 2-Line 6 00-Feb-23, PFab 2-Line 6 00-Feb-23, PFab 2-Line 6 00-Jan-23, PFab 2-Line 6 00-Jan-23 00-Jan-23 00-Jan-23 00-Jan-23 00-Jan-23 00-Feb-23 00-Jan-23 00-Jan-23 00-Feb-23 00-Jan-23 00-Feb-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 23-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 24-Jan-23 17-Feb 2						26-	Feb-23
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ec -22, PFab 2-Line 6 4th Floor (EL34.47- EL44.22m) Primary & Secondary S 01-Feb-23, PFab 2-Line 06-Feb-23, PFab 2-Line 06-Feb-23, PFab 2-Line 06-Feb-23, PFab 2-Line 08-Jan-23, PFab 2-Line 6 - 3rd Floor (EL23.47- Dec-22, PFab 2-Line 6 - 2rd Floor (EL12.47- EL23.47m) (Including Dosing sy 08-Jan-23, PFab 2-Line 6 - 3rd Floor (EL23.47- Dec-22 07-Feb-23, PFab 2-Line 6 - Piping 20-Jan-23, PFab 2-Line 6 - Piping 20-Jan-23, PFab 2-Line 6 - Piping 20-Jan-23, PFab 2-Line 6 - Piping 20-Jan-23 17-Feb 23-Jan-23 17-Feb 24-Dec-22, Material Procurment (FM3), 23-Dec-22, Material Procurment (FM2), 12-Dec-22, Material Procurment (FM3), 23-Dec-22, Material Procurment (FM3), 23-Dec-22, Material Procurment (FM3), 23-Dec-22, Material Procurment (FM3), 23-Dec-22, Material Procurment (FM3), 08-Jan-23, 08-Jan-23, 10-Feb-23, Fabri 12-Jan-23 22-Feb-23 2 31-Dec-22, Material Testing (BM3), 08-Jan-23, 08-Jan-23, 10-Feb-23, Fabri 12-Jan-23 22-Feb-23 2 31-Dec-22, Turbine Module 1 - Steam Turbine 1 Fabrication 30-Dec-22, Turbine Module 1 - Steam Turbine 1 Fabrication 30-Dec-22, Turbine Module 1 - Steam Turbine 1 Fabrication 31-Dec-22 113-Feb-23 13-Feb-23	08-Dec-22, PFab 2-	Lihe 6 - Ter	rtiary Stru	icture Fal	prication, P	Fab 2-Line	ə 6 - Tertia
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-Dec-22, PFab 2-Line 6 - 2nd Floor (EL12.47- EL23.47m) (Including Dosing sy         08-Jan-23, PFab 2-Line 6 - 3rd Floor (EL23.47         Dec-22       07-Feb-23, PFab         20-Jan-23, PFab 2-Line 6 - Piping         20-Jan-23       15-Feb-         09-Jan-23       15-Feb-         09-Jan-23       17-Fei         23-Jan-23       17-Fei         24-Dec-22, Material Procurment (FM2), 12-Dec-22, 12-Dec-22, Material Procurment (FM3), 23-Dec-22, Material Procurment (FM3), 23-Dec-22, Material Procurment (FM3), 23-Dec-22, Material Procurment (FM3), 08-Jan-23, 08-Jan-2							
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06-Feb-23         17-Fe           23-Jan-23         17-Fe           23-Jan-23         17-Fe           24-Jan-23         17-Fe           06-Feb-23         17-Fe           23-Jan-23         17-Fe           24-Dec-22         21           Material Procurment (FM2), 12-Dec-22, Material Procurment (FM3), 23-Dec-22, Material Procurment (FM3), 08-Jan-23, 08-Jan-23, 08-Jan-23, 19           09-Jan-23         07-Feb-23, Fabr           09-Jan-23         07-Feb-23, Fabr           12-Jan-23         22-Feb-23           09-Jan-23         22-Feb-23           03-Dec-22, Electrical and Instrumentation Material Proc           30-Dec-22, Turbine Module 1 - Steam Turbine 1 Fabricatt	02-Jan-23	*					15-Feb-
23-Jan-23       17-Fe         23-Jan-23       17-Fe         24-Jan-23       17-Fe         23-Jan-23       17-Fe         24-Dec-22, Material Procurment (FM2), 12-Dec-22, Material Procurment (FM3), 23-Dec-22, 23-Dec-22, Material Procurment (FM3), 23-Dec-22         24-Dec-22       21         12-Dec-22, Material Testing (BM2), 12-Dec-22       21         12-Dec-22, Material Testing (BM3), 08-Jan-23, 08-Jan-23, 1         09-Jan-23       07-Feb-23, Fabr         12-Jan-23       22-Feb-23         31-Dec-22, Electrical and Instrumentation Material Proc         30-Dec-22, Turbine Module 1 - Steam Turbine 1 Fabricat         29-Dec-22, Turbine Module 1 - Steam Turbine 1 Fabricat         30-Dec-22, Turbine Module 1 - TBS Tower 1 Fabrication, Turbine Module 1 - TBS	09	Jan-23		06	-Feb-23		2
24-Jan-23*       17-Fe         06-Feb-23       17-Fe         23-Jan-23       17-Fe         23-Jan-23       17-Fe         Material Procurment (BM3), 09-Dec-22, 09-Dec-22, Material Procurment (BM3)       17-Fe         Material Procurment (FM2), 12-Dec-22, 09-Dec-22, Material Procurment (FM3), 23-Dec-22, 23-Dec-22, Material Procurment (FM3), 23-Dec-22, Material Procurment (FM3), 23-Dec-22, Material Procurment (FM2), 11-Jan-23, 11-Jan-23         24-Dec-22       21         12-Dec-22, Material Testing (BM2), Material Testing (BM2), 12-Dec-22       21         12-Dec-22, Material Testing (BM2), Material Testing (BM3), 08-Jan-23, 08-Jan-23, 19       21         09-Jan-23       07-Feb-23, Fabrication (BM3), 08-Jan-23, 08-Jan-23, 19         09-Jan-23       22-Feb-23         09-Jan-23       21-Dec-22, Turbine Module 1 - Steam Turbine 1 Fabrication         20-Dec-22, Turbine Module 1 - TBS Tower 1 Erection 8 In <td></td> <td></td> <td></td> <td>23</td> <td></td> <td></td> <td>17-Fe</td>				23			17-Fe
23-Jan-23       17-Fe         23-Jan-23       17-Fe         23-Jan-23       17-Fe         Material Procurment (BM3), 09-Dec-22, 09-Dec-22, Material Procurment (BM2)         Material Procurment (FM2), 12-Dec-22, 12-Dec-22, Material Procurment (FM3), 23-Dec-22, 23-Dec-22, Material Procurment (FM3), 23-Dec-22, 23-Dec-22, Material Procurment (FM2), 11-Jan-23, 11-Jan-23         24-Dec-22       21         12-Dec-22, Material Testing (BM2), Material Testing (BM3), 08-Jan-23, 08-Jan-23, 1         09-Jan-23       07-Feb-23, Fabrication (BM3), 08-Jan-23, 08-Jan-23, 1         12-Jan-23       22-Feb-23         03-Dec-22, Electrical and Instrumentation Material Process         31-Dec-22, Electrical and Instrumentation Material Process         20-Dec-22, Turbine Module 1 - Steam Turbine 1 Fabrication         20-Dec-22, Turbine Module 1 - Generator & Equipment Instrumentation         30-Dec-22, Turbine Module 1 - TBS Tower 1 Fabrication, Turbine Module 1 - TBS Tower 1 Fabrication, Turbine Module 1 - TBS Tower 1 Fabrication, Turbine Module 1 - TBS Tower 1 Fabrication & Instrument 23-Dec-22							
23-Jan-23 17-Fe Material Procurment (BM3), 09-Dec-22, 09-Dec-22, Material Procurment (BM3) Material Procurment (FM2), 12-Dec-22, 12-Dec-22, Material Procurment (FM3), 23-Dec-22, 23-Dec-22, Material Procurment (FM3), 23-Dec-22, 23-Dec-22, Material Procurment (FM2), 11-Jan-23, 11-Jan-23 44-Dec-22 21 12-Dec-22, Material Testing (BM2), Material Testing (BM2), 12-Dec-22 12-Dec-22, Material Testing (BM2), Material Testing (BM3), 08-Jan-23, 08-Jan-23, 1 09-Jan-23 09-Jan-23 07-Feb-23, Fabrical Comparison of the structure of the structu			02 lon	· <u></u>	-Feb-23		17 Eo
Material Procurment (FM2), 12-Dec-22, 12-Dec-22, Material Procurment (FM3), 23-Dec-22, 23-Dec-22, Material Pro- Material Procurment (FM3), 23-Dec-22, 23-Dec-22, Material Pro- Material Testing (FM2), 11-Jan-23, 11-Jan-23, 24-Dec-22 24-Dec-22, Material Testing (BM2), Material Testing (BM2), 12-Dec-22 25-12-Dec-22, Material Testing (BM2), Material Testing (BM2), 12-Dec-22 30-Jan-23 09-Jan-23 09-Jan-23 22-Feb-23 22-Feb-23 31-Dec-22, Electrical and Instrumentation Material Pro- 30-Dec-22, Turbine Module 1 - Steam Turbine 1 Fabricat 29-Dec-22, Turbine Module 1 - Steam Turbine 1 Fabricat 20-Dec-22, Turbine Module 1 - TBS Tower 1 Fabrication, Turbine Module 1 - TBS Tower 1 Erection & 1 31-Dec-22, Turbine Module 1 - TBS Tower 1 Erection & 1 31-Dec-22, Turbine Module 1 - TBS Tower 1 Erection & 1 31-Dec-22, Turbine Module 1 - TBS Tower 1 Erection & 1 31-Dec-22, Turbine Module 1 - TBS Tower 1 Erection & 1 31-Dec-22, Turbine Module 1 - TBS Tower 1 Erection & 1 31-Dec-22, Turbine Module 1 - TBS Tower 1 Erection & 1 31-Dec-22, Turbine Module 1 - TBS Tower 1 Erection & 1 31-Dec-22, Turbine Module 1 - TBS Tower 1 Erection & 1 31-Dec-22, Turbine Module 1 - TBS Tower 1 Erection & 1 31-Dec-22, Turbine Module 1 - TBS Tower 1 Erection & 1 31-Dec-22, Turbine Module 1 - TBS Tower 1 Erection & 1 31-Dec-22, Turbine Module 1 - TBS Tower 1 Erection & 1 31-Dec-22, Turbine Module 1 - TBS Tower 1 Erection & 1 31-Dec-22, Turbine Module 1 - TBS Tower 1 Erection & 1 31-Dec-22, Turbine Module 1 - TBS Tower 1 Erection & 1 31-Dec-22, Turbine Module 1 - TBS Tower 1 Erection & 1 31-Dec-22, Turbine Module 1 - TBS Tower 1 Erection & 1 31-Dec-22, Turbine Module 1 - TBS Tower 1 Erection & 1 31-Dec-22, Turbine Module 1 - TBS Tower 1 Erection & 1 31-Dec-22, Turbine Module 1 - TBS Tower 1 Erection & 1 31-Dec-22, Turbine Module 1 - TBS Tower 1 Erection & 1 31-Dec-22, Turbine Module 1 - TBS Tower 1 Erection & 1 31-Dec-22, Turbine Module 1 - TBS Tower 1 Erection & 1 31-Dec-22, Turbine Module 1 - TBS Tower 1 Erection & 1 31-Dec-22, Turbine Module 1 - TBS Tower							17-Fe
09-Jan-23 07-Feb-23, Fabri 12-Jan-23 22-Feb-23 31-Dec-22, Electrical and Instrumentation Material Proc 30-Dec-22, Turbine Module 1 - Steam Turbine 1 Fabricati 29-Dec-22, Turbine Module 1 - Steam Turbine 1 Fabricati 29-Dec-22, Turbine Module 1 - Generator & Equipment Ins Dec-22, Turbine Module 1 - TBS Tower 1 Fabrication, Turbine Module 1 - TBS Tower 1 Erection & I 30-Dec-22, Turbine Module 1 - TBS Tower 1 Erection & I 30-Dec-22, Turbine Module 1 - TBS Tower 1 Erection & I 31-Dec-22	Material Procur Material Material Material 24-Dec-22	ment (FM2 prial Procu	2), 12-Dec rment (FM	-22, 12-E M3), 23-D rial Testin	0ec-22, Mat ec-22, 23-1 ng (FM2), 1	erial Proc Dec-22, Ma 1-Jan-23,	urment (F aterial Pro 11-Jan-23
07-Feb-23, Fabr 12-Jan-23 22-Feb-23 31-Dec-22, Electrical and Instrumentation Material Proc 30-Dec-22, Turbine Module 1 - Steam Turbine 1 Fabricati 29-Dec-22, Turbine Module 1 - Generator & Equipment Ins Dec-22, Turbine Module 1 - TBS Tower 1 Fabrication, Turbine Module 1 - TBS Tower 1 Fabrication, Turbine Module 1 - TBS Tower 1 Fabrication & Instrumentation & Ins			Materia	l Testing (	BM3), 08-	Jan-23, 08	-Jan-23, I
12-Jan-23     22-Feb-23     22-Feb-23     31-Dec-22, Electrical and Instrumentation Material Proc     30-Dec-22, Turbine Module 1 - Steam Turbine 1 Fabricat     29-Dec-22, Turbine Module 1 - Steam Turbine 1 Fabricat     29-Dec-22, Turbine Module 1 - Steam Turbine 1 Fabricat     30-Dec-22, Turbine Module 1 - TBS Tower 1 Fabrication, Turbine Module 1 - TBS Tower 1 Fabrication (1) - TBS Tower 1 - TBS - 23	09	)-Jan-23				07 Eob	22 Eabri
30-Dec-22, Turbine Module 1 - Steam Turbine 1 Fabricat 29-Dec-22, Turbine Module 1 - Generator & Equipment Inc Dec-22, Turbine Module 1 - TBS Tower 1 Fabrication, Turbine Module 1 - TBS Tower 1 Fabrication, Turbine Module 1 - TBS Tower 1 Erection & I 30-Dec-22, Turbine Module 1 - TBS Tower 1 Erection & I 31-Dec-22			3				
\$9-Dec-22, Turbine Module 1 - Generator & Equipment Inc Dec-22, Turbine Module 1 - TBS Tower 1 Fabrication, Turbine Module 1 - TBS T 30-Dec-22, Turbine Module 1 - TBS Tower 1 Erection & I 31-Dec-22     13-Feb-23		<b>3</b> 1-Dec	:-22, Elec	trical and	l Instrumer	itation Mat	erial Proc
30-Dec-22, Turbine Module 1 - TBS Tower 1 Erection & I 31-Dec-22 13-Feb-23	Dec-22 Turbine Mo	29-Dec-2	22, Turbin	e Module	1 - Genera	tor&Equi	pmentlna
						ower 1 Ere	ection & I

REPPEL SEGIERS - 2HEN HUATO	Activity Name	Original Duration	Remaining Duration	Activity % Current Start Complete	Current Finish	Late Start	Late Finish	Total Float M60 Remarks	rated Waste Manage
-									60
_Turbine Module 3 06-4410(6)	Turbine Module 3 - Steam Turbine 3 Fabrication	450 450	120 120			30-Nov-22 30-Nov-22		0	
06-4420(6)	Turbine Module 3 - Generator & Equipment Installation	450	120			30-Nov-22		0	
06-4440(6)	Turbine Module 3 - TBS Tower 3 Fabrication	61	41	32.79% 06-Sep-21 A	09-Jan-23	02-Dec-22	11-Jan-23	2	
06-4440-1(M55)	Turbine Module 3 - TBS Tower 3 Erection & Installation	88	77	12.5% 06-Sep-22 A	27-Mar-23	12-Jan-23	29-Mar-23	2	
Procurement for Air C		480	83			30-Nov-22	23-Aug-23	184	
06-1120 06-1120-1	Off-site Fabrication of ACC-1 Units Off-site Fabrication of ACC-2 Units	178 178	25 68	85.96% 23-Oct-21 A 61.8% 28-Feb-22 A		30-Nov-22 09-Apr-23	24-Dec-22 15-Jun-23	0 130	
06-1120-2	Off-site Fabrication of ACC-3 Units	178	83			09-Apr-23 02-Jun-23	23-Aug-23	184	
06-1130	Factory Acceptance Test (FAT) for ACC-1	56	56		24-Jan-23	30-Nov-22	24-Jan-23	0	30-Nov-22
06-1160	Delivery to Site ACC-1	21	21	0% 25-Jan-23	14-Feb-23	25-Jan-23	14-Feb-23	0	
Procurement for CCC	W Building Equipment	300	43			14-Jun-23	26-Jul-23	196	
06-1410(1)	Material Procurement & Equipment Manufacture	300	43			14-Jun-23	_	196	
-	nanical Treatment Plant Building Plant Equipment	398	245			05-Aug-23	· · ·	248	
06-1150-1(1) 06-1150-2(1)	Mechanical Equipment Material Submission and Approval Pipe Material Submission and Approval	180	28 28			05-Aug-23 19-Sep-23		248 293	
06-1150-3(1)	Electrical and Instrumentation Material Submission and Approval	180	60			10-Aug-23		253	
06-1160-1(1)	Mechanical Equipment Procurement (Incl. FAT)	217	217			02-Sep-23	05-Apr-24	248	
06-1160-2(1)	Pipe Material Procurement (Incl. FAT)	180	172	4.44% 30-Jun-21 A	17-Jun-23	17-Oct-23	05-Apr-24	293	
	ewater Treatment Plant Equipment	105	31			20-Feb-23	22-Mar-23	82	
06-1190-1(1)	Mechanical Equipment Material Submission and Approval	90	31			20-Feb-23	22-Mar-23	82	
06-1190-2(1) 06-1190-3(1)	Pipe Material Submission and Approval Electrical and Instrumentation Material Submission and Approval	90	31			20-Feb-23 20-Feb-23	22-Mar-23 22-Mar-23	82	
()	electrical and instrumentation material Submission and Approval	120	121			20-Feb-23 23-Jan-23	22-Mar-23	54	
06-1240-1(1)	Mechanical Equipment Procurement (Incl. FAT)	60	1	98.33% 01-Jun-22 A		23-Jan-23	23-Jan-23	54	
06-1260-1(M55)	WTP chemical storage tank Material Submission and Approval	120	120	0% 01-Dec-22	30-Mar-23	24-Jan-23	23-May-23	54	01-Dec-22
	ransformers and Associated Equipment	333	180	31-May-22	28-May-23	30-Nov-22	28-May-23	0	
Procurement of Transfor		120	120		· · ·		08-May-23	10	
06-1290(1)	Factory Acceptance Test (FAT) oard/Pannels and Cables	120 240	120 180				08-May-23 28-May-23	10 0	
06-2090(1)	Material Submission and Approval	60	30		29-Dec-22		29-Dec-22	0	
06-2100(1)	Material & Equipment Procurement	240	180	25% 31-May-22	28-May-23	30-Nov-22	28-May-23	0	
<b>Procurement for Cont</b>	irol SCADA Systems	140	105	23-May-22	14-Mar-23	02-Dec-22	16-Mar-23	2	
06-1310	Scada System Procurement, Panel Assembly & Wiring	140	105		14-Mar-23	02-Dec-22		2	
Procurement for Onst 06-1350	Supplier Submission and Approval	<b>360</b> 60	360 60		24-Nov-23 28-Jan-23	03-Nov-22 03-Nov-22	28-Oct-23 01-Jan-23	-27 -27	30-Nov-22
06-1360	Material & Equipment Procurement	300	300		24-Nov-23	02-Jan-23		-27	
	site Fabrication of Pipe Bridges (Incl. Pipings)	325	142			23-Nov-22		39	
06-1400	Material & Equipment Procurement	150	10	93.33% 31-May-22	15-Jan-23	20-May-23	29-May-23	134	
Fabrication of Pipe Rack	k (Prefab.3)	150	78						
Pipe Rack 1 06-5000(6)	Structure Cutting, Painting & Pre-assembly	110	44	28-Oct-21 A 70.91% 28-Oct-21 A		01-Mar-23		91	
06-5010(6) 06-5010(6)	Erection & Fabrication	110 60	32				13-Apr-23	91 91	
Pipe Rack 2		110	78			26-Feb-23			
06-5070(6)	Structure Cutting, Painting & Pre-assembly	110		57.27% 11-Nov-21 A			13-Apr-23	88	
06-5080(6)	Erection & Fabrication	60	31				14-May-23	88	
Pipe Rack 3	Observers Outline Deletion & Des secondale	132	78			26-Feb-23			
06-5140(6) 06-5150(6)	Structure Cutting, Painting & Pre-assembly Erection & Fabrication	110 60	47	57.27% 30-May-21 48.33% 07-Mar-22 A			13-Apr-23 14-May-23	88	
Fabrication of Pipe Brid		180	77			23-Dec-22	,		
Pipe Bridge B Between		180	77					24	
06-5300(6)	Structure Cutting, Painting & Pre-assembly	180	0				23-Dec-22	24	
06-5310(6)	Erection & Fabrication	31	31					24	30-Nov-22
06-5320(6) Fabrication of Pipe Bridge	Piping installation	46 203	46 142			24-Jan-23 23-Nov-22		-7	
Pipe Bridge C between		200	139			23-Nov-22		-7	
06-5400(6)	Structure Cutting, Painting & Pre-assembly	14	78			23-Nov-22	08-Feb-23	-7	
06-5410(6)	Erection & Fabrication	61	61				10-Apr-23	-7	
Pipe Bridge C between 06-5440(6)	Turbine Hall & ACC -2 Structure Cutting, Painting & Pre-assembly	200 14	139 78				10-Apr-23 08-Feb-23	-7 -7	
06-5450(6) 06-5450(6)	Erection & Fabrication	61	61				10-Apr-23	-7	
Pipe Bridge C between		203	142			23-Nov-22		-7	
06-5480(6)	Structure Cutting, Painting & Pre-assembly	14	81				11-Feb-23	-7	
06-5490(6)	Erection & Fabrication	61	61					-7	
	lectrical System for On-site Installation	180	43			22-Sep-23		296	
06-1440	Material & Equipment Procurement	180	43	76.11% 01-Mar-22 A	11-Jan-23	22-Sep-23	03-Nov-23	296	

**3-Month Rolling Programme (November 2022)** 

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Remaining Work Actual Work

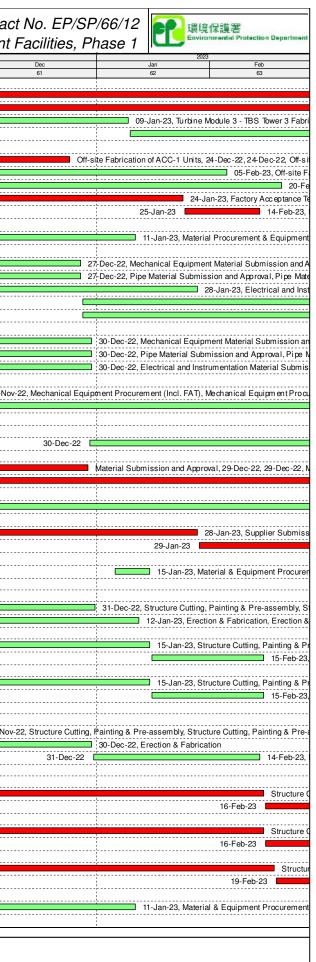
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Actual Milestone

Critical Milestone

Critical Remaining Work

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KEPPEL SEGHERS - ZHEN HUAJOR							1	1		rated Waste Manager
	Activity Name	Original Duration	Remaining Duration	Activity Comple	% Current Start te	Current Finish	Late Start	Late Finish	Total Float M60 Remarks	5 Nov 60
IWMF Substation		250	90		31-May-22	29-Mar-23	12-Mar-23	09-Jun-23	72	
06-1810(6)	Material Submission & Equipment Procurement (For IWMF Substation)	250	90	64%		29-Mar-23	12-Mar-23		72	
Procurement for Crana	age Equipment	395	152			A 30-Apr-23	28-Dec-22		111	
Waste Crane 06-1720	Material & Equipment Procurement	180	152 152			A 30-Apr-23 A 30-Apr-23	20-Mar-23 20-Mar-23		110 110	
Ash Crane		180	36		-	A 04-Jan-23		17-Aug-23		
06-1830	Material & Equipment Procurement	180	36			A 04-Jan-23	13-Jul-23	17-Aug-23	225	
Shredder 06-1870	Material & Equipment Procurement	85	42 42			10-Apr-23	09-Jul-23 09-Jul-23	19-Aug-23 19-Aug-23	131 131	
EOTC		150	42 100			09-Mar-23	28-Dec-22	-	28	
06-1920	Factory Acceptance Test (FAT)	150	100			A 09-Mar-23	28-Dec-22		28	
06-1940(M54)	EOTC Delivery to Site Batch 1	47	47	0%	6 30-Nov-22		28-Dec-22	12-Feb-23	28	30-Nov-22
	uality Monitoring Station Equipment	218	157			A 05-May-23	02-Dec-22		2	
06-2150(1) 06-2160(1)	Material Submission and Approval Material Procurement	60 150	7 150			A 06-Dec-22 05-May-23		08-Dec-22 07-May-23	2	07-De
.,	pmpressor Equipment	150	0			A 17-Mar-23	09-Dec-22 06-Aug-23	,	143	07-De
06-1890(1)	Factory Acceptance Test (FAT)	16	0			A 17-Mar-23	06-Aug-23		143	
Procurement for Pipes	and Insulation for on site installations	307	124		31-May-22	02-Apr-23	19-Jan-23	22-May-23	50	
06-2250(1)	Material Submission and Approval	60	4		6 31-May-22		19-Jan-23	22-Jan-23	50	
06-2260(1)	Material & Equipment Procurement	120	120	0%	6 04-Dec-22		23-Jan-23	22-May-23	50	04-Dec-2
	ing Finishes Materials (Doors, windows and louvers ie)	300	300	00	30-Nov-22	25-Sep-23	10-Dec-22		71	20 Nov 22
06-8010(6) 06-8030(6)70	ACC Equipment Yard - Material Submission, Procurement, FAT and Delivery IW MF Substation - Material Submission, Procurement, FAT and Delivery	300 200	300 200		6 30-Nov-22 6 09-Dec-22		09-Feb-23 10-Dec-22	05-Dec-23 27-Jun-23	71	30-Nov-22 09-I
	Equipments for BS Works	60	60	0,	29-Jan-23	29-Mar-23	07-Feb-23		9	
06-8300(6E)	Material Submission and Approval	60	60	0%	6 29-Jan-23	29-Mar-23	07-Feb-23	07-Apr-23	9	
Delivery of Cast-in pip	es, Fittings and Anchor Bolts for Structures (if applicable)	36	36		01-Dec-22	06-Jan-23	27-Nov-22	17-Jan-23	11	
04-1805(6F)	Was tewater Treatment Plant (60d)	0	0		6 01-Dec-22		15-Dec-22		14	
04-1815(6F)	Turbine Hall Building (30d) IW MF Substation (90d)	0	0		6 13-Dec-22		27-Nov-22		-16	
04-1880(6F) 04-1890(6F)	ACC Equipment Structure (30d)	0	0		6 06-Jan-23 6 28-Dec-22		17-Jan-23 09-Dec-22		-19	
Maritime Works		381	198	0,	31-May-22			03-Nov-23	141	
Marine Construction		381	198		31-May-22		16-Dec-22	03-Nov-23	141	
Phase I - Construction of	f Perimeter Seawalls	263	180		31-May-22		16-Dec-22	02-Oct-23	127	
Seawall and Berth at DC		60	30			29-Dec-22			277	
Seawall Structural Work	KS	60 60	30 30		31-May-22 31-May-22	29-Dec-22 29-Dec-22	16-Dec-22 16-Dec-22		277 277	
08-1120-2(M55)	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level for Seawall B No. C1 & C2 (Caisson A2 8		30	50%	6 31-May-22		03-Sep-23		277	
08-1120-3(M55)	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level for Seawall B No. C8 & C9	60	0	100%	6 31-May-22	30-Nov-22	16-Dec-22	16-Dec-22	17	
08-1120-4(M55)	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level for Seawall B No. C73 & C73C1	60	30		-	29-Dec-22	03-Sep-23		277	
Seawall at Dredging Are Remain Works	a	160	160 160		_	28-May-23 28-May-23	26-Apr-23 26-Apr-23		127 127	
08-1170	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level (Bay 1 to Bay 8)	160	160	0%		28-May-23		02-Oct-23	127	
Phase II - Reclamation, B	reakwater and Berth Construction	381	198		31-May-22	15-Jun-23	28-Dec-22	03-Nov-23	141	
Reclamation		289	198			A 15-Jun-23	28-Dec-22		28	
Reclamation Works		289 57	198 31			A 15-Jun-23 A 30-Dec-22	28-Dec-22 28-Dec-22	13-Jul-23 16-Feb-23	28 48	
08-3060-1(M57)	Fill up +7.5 to +15mPD at West Edge Area (Area 7B1) (30,500m3 @ 2500m 3/d)	13	31	0%		30-Dec-22	17-Jan-23	16-Feb-23	48	
08-3080(6)	Fill up +7.5 to +15mPD at South Edge Area (Area 5) (96,700m3 @ 2500m 3/d)	39	18	53.85%	6 04-Jun-22	A 17-Dec-22	28-Dec-22	14-Jan-23	28	
Surcharge Period		180	180			15-Jun-23	15-Jan-23	13-Jul-23	28	
08-3120-2(M57) 08-3130(6)	Loading @ +12mPD at West Edge Area (Area 7B1) Loading @ +11&+13mPD at South Edge Area (Area 5)	60 180	60 180			28-Feb-23 15-Jun-23	17-Feb-23	17-Apr-23 13-Jul-23	48 28	
Breakwater		120	90			27-Feb-23		03-Nov-23	249	
Remain Works		120	90			27-Feb-23		03-Nov-23	249	
08-1300	Construction of Caissons Extension from +3mPD to Deck Level	120	90	25%	-	27-Feb-23		03-Nov-23	249	
oundation Works		264	116			25-Mar-23		03-Jul-23	100	
	ing Gallery Bid Foundation	15	3			A 02-Dec-22	01-Jul-23		213	
Administration Piling Wo 09-1055(6)	rks (Driven H-pile) Predrilling for Driven Pile founding determination (15 nr ~60m, @15m/d, 4 Rigs)	15 15	3	80%		A 02-Dec-22 A 02-Dec-22	01-Jul-23 01-Jul-23	03-Jul-23 03-Jul-23	213 213	
	ste Bunker & Tipping Hall Bld Foundation	148	61	007		30-Jan-23		11-Mar-23	41	
Process Building Piling		113				25-Dec-22			14	
Piling Stage 3 (Module 3		113	26			25-Dec-22	13-Dec-22		14	
Process Building (Mod 09-1160	ule 3) WWTP (Subzone 23&24) Driven H Pile Installations (103 nrs ~40m(D), @60m/d 2 Groups)	45 35	16 8			A 15-Dec-22 A 07-Dec-22		01-Jan-23 24-Dec-22	17 17	
09-1160 09-1170	Pile Load Test	35	б R			A 07-Dec-22 15-Dec-22		24-Dec-22 01-Jan-23	17	08-[
	ule 3) Bunker (Subzone 25, 26&27)	113	26	57		25-Dec-22	13-Dec-22	_	14	
09-2210	Driven H Pile Installations (297 nrs ~40m(D), @60m/d 2 Groups)	99	18	81.82%		17-Dec-22	13-Dec-22	31-Dec-22	14	
09-2220	Pile Load Test	8	8	0%	6 18-Dec-22	25-Dec-22	31-Dec-22	08-Jan-23	14	

3-Month	Rolling	Programme	(November	2022)
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Actual Work

Critical Milestone

Critical Remaining Work

ract No. EP/SP ent Facilities, Pl		<b>R</b> !	晨境仍	就選著 rental Protectio	n Department
Dec 61		Jan 62	2023	Feb 63	
01		02		63	
	04-Jan-2	3, Material 8		ment Procure	ment, Materi
		15-Jan-23	3, EOTO	C Delivery to S	ite Batch 1
				·····	
06-Dec-22, Material Sub	mission and A	pproval, Mat	terial S	ubmissionan	d Approval, 0
03-Dec-22, Material Submi	ssion and Appr	oval, Materi	ial Subr	n ission and A	pproval, 03-I
22	· - · - · - · - · - · - · · · · · · · ·				
		29-Jan-23			
		20-0 all-20			
Vastewater Treatment Plant					
Turbine Hall Build					
Δ	IW MF S CC Equipment	Substation (			
• •					
-Nov-22, Construction of Sea	29-Dec-22, Cor awall and Wave 29-Dec-22, Cor	e Wall Exter	nsion fr	om +3mPD to	Deck Level
			<del></del>		
	30-Dec-22, Fil				
17-Dec-22, F	ill up +7.5 to +	15mPD at S	south E	dge Area (Are	a 5) (96,700
31-Dec-22					
18-Dec-22					
02-Dec-22, Predrilling for Di	iven Pile found	ling determi	nation	(15 nr ~60m, (	⊉15m/d. 4 R
,					
07-Dec-22, Driven H Pi	le Installations	(103 nrs ~4	40m(D)	, @60m/d 2 Gi	oups), Drive
2 15-Dec-22, Pil					
17-Dec-22	riven H Pile In	stallations	297 nr	a∼40m(D) @	60m/d 2 Gro
	ec-22, Pile Loa				

	Activity Name	Original Duration	Duration	Activity % Complete	Current Start	Current Finish	Late Start	Late Finish	Total Float M60 Remarks	Nov 60	202
Piling Stage 1 (Module		9	9		30-Nov-22	08-Dec-22	28-Dec-22		28		L
Process Building (Moc 09-2200	dule 1) Tipping Hall (Subzone 1&2) Pile Load Test	9	9 9	0%	30-Nov-22 30-Nov-22	08-Dec-22 08-Dec-22	28-Dec-22 28-Dec-22		28 28	30-Nov-2	
Piling Stage 2 (Module		8	8				21-Jan-23		53		
	dule 2) Tipping Hall (Subzone 13)	8	8		30-Nov-22		21-Jan-23		53	00 Ni	
09-2250     Process Building Pile Ca	Pile Load Test	8	8 61		30-Nov-22	07-Dec-22 30-Jan-23	21-Jan-23 30-Nov-22	29-Jan-23	53 41	30-Nov-2	22
Pile Cap Stage 1 (Modu		107	46			14-Jan-23	30-Nov-22		6		
Process Building (Mod		40	40	00/		08-Jan-23		20-Jan-23	12	00 Nov 0	
09-1180 09-1190	Excavation to Pile Cap Formation Pile Cut-off & Capping Plate (76 nrs, 4nr/d)	25	25 19		30-Nov-22 09-Dec-22	24-Dec-22 27-Dec-22	12-Dec-22 21-Dec-22	05-Jan-23 08-Jan-23	12	30-Nov-2	22 L
09-1200	Pile Caps Construction (26nrs 8set @ 1/7d)	23	23		17-Dec-22	08-Jan-23	29-Dec-22	20-Jan-23	12		05-De
Process Building (Mod	dule 1) Bunker	107	46		19-Sep-22 A	14-Jan-23	30-Nov-22	14-Jan-23	0		
09-1200-1	Excavation to Pile Cap Formation	25	14			13-Dec-22	30-Nov-22	13-Dec-22	0		
09-2400 09-2410	Pile Cut-off & Capping Plate Pile Caps and Raft Foundation Construction (50m x 36m 4set @100m2/7d)	19	19 32		02-Dec-22 14-Dec-22	20-Dec-22 14-Jan-23	20-Dec-22 14-Dec-22	07-Jan-23 14-Jan-23	18	02-Dec	
Pile Cap Stage 2 (Modu		52	52		08-Dec-22		29-Jan-23		42		
Process Building (Mod		35	35		25-Dec-22	28-Jan-23	05-Feb-23	11-Mar-23	42		
09-1210 09-1220	Excavation to Pile Cap Formation Pile Cut-off & Capping Plate (51 nrs, 4nr/d)	25	25 13		25-Dec-22 09-Jan-23	18-Jan-23 21-Jan-23	05-Feb-23 20-Feb-23	01-Mar-23 04-Mar-23	42		
09-1220	Pile Caps Construction (22nrs 8set @ 1/7d)	20	20		09-Jan-23 09-Jan-23	21-Jan-23 28-Jan-23	20-Feb-23 20-Feb-23	11-Mar-23	42		
Process Building (Mod		41	41	2.0	08-Dec-22	18-Jan-23	29-Jan-23	11-Mar-23	53		
09-2380	Pile Cut-off & Capping Plate (207 nrs, 8nr/d)	27	27		08-Dec-22	04-Jan-23	29-Jan-23	25-Feb-23	53	C	08-De
09-2390	Pile Caps and Raft Foundation Construction (50m x 36m 4set @100m2/7d)	36	36		13-Dec-22	18-Jan-23	03-Feb-23	11-Mar-23	53		
Pile Cap Stage 3 (Modu Process Building (Mod		45 45	45 45		16-Dec-22 16-Dec-22	30-Jan-23 30-Jan-23	01-Jan-23 01-Jan-23	12-Feb-23 12-Feb-23	14		
09-1240	Excavation to Pile Raft Foundation Formation	25	25	0%	16-Dec-22	10-Jan-23	01-Jan-23	26-Jan-23	17		
09-2550	Excavation to Pile Cap Formation	25	25		26-Dec-22	20-Jan-23	08-Jan-23	02-Feb-23	14		
09-2560	Pile Cut-off & Capping Plate (22 nrs, 4nr/d)	6	6		17-Jan-23	23-Jan-23	30-Jan-23	05-Feb-23	14		
09-2570 Process Building - Bo	Pile Caps Construction (5nrs 2set @ 1/7d)  iler & Flue Gas Treatment Bid Foundation	18	18 111		12-Jan-23 21-Sep-22 /	30-Jan-23	25-Jan-23 24-Nov-22	12-Feb-23	14 -6		
	Building & Flue Gas Foundation	87	61		<u> </u>	29-Jan-23	24-Nov-22		-6		
Process Building Pile C		87	61		21-Sep-22 A		24-Nov-22	23-Jan-23	-6		
Process Building (Moc 09-1460	dule 3) Pile Cap Stage 3 Excavation to Pile Cap Formation	87 45	61 12		21-Sep-22 A	29-Jan-23 11-Dec-22	24-Nov-22 24-Nov-22	23-Jan-23 05-Dec-22	-6		
09-1470	Pile Cut-off & Capping Plate (376 nrs, 10nr/d)	38	8		-	18-Dec-22	05-Dec-22	12-Dec-22	-6		
09-1480	Pile Caps Construction (52 nrs, 4set @1/7d)	87	44		29-Oct-22 A		11-Dec-22	23-Jan-23	-6		_
_RC Base Slab		50	50			20-Mar-23		14-Mar-23	-6		
ACC Equipment Foun	Base Slab Stage 3 (Module 3)	50 88	50 58	0%	30-Jan-23 24-Oct-22 A	20-Mar-23	24-Jan-23 11-Nov-22	14-Mar-23 07-Jan-23	-6 -19		
ACC Equipment Foun ACC Piling Works (Drive		58	28			27-Dec-22		08-Dec-22	-19		
09-1670-11	Driven H Pile Installations at Zone 2 (30 nrs ~55m(D), @60m/d 2 Groups) (Module 1)	28	14	50%	24-Oct-22 A	13-Dec-22	11-Nov-22	24-Nov-22	-19		
09-1670-12(6F)	Driven H Pile Installations at Zone 4 (31 nrs ~55m(D), @60m/d 2 Groups) (Module 1)	28	28			27-Dec-22	11-Nov-22	08-Dec-22	-19	30-Nov-2	22
ACC Pile Cap Construct 09-1690	Ion Excavation to Pile Cap Formation (Module 1)	<u> </u>	44 14			26-Jan-23 27-Dec-22	25-Nov-22	07-Jan-23 08-Dec-22	-19 -19		
09-1700	Pile Cut-off & Capping Plate (Module 1)	18	18		19-Dec-22	05-Jan-23	30-Nov-22	17-Dec-22	-19		•••••
09-1710	Pile Caps Construction (Module 1)	30	30	0%	14-Dec-22	12-Jan-23	25-Nov-22	24-Dec-22	-19		
09-1710-1(6)	Tie Beam s Construction (Module 1 @+6.5mPD)	30	30		28-Dec-22			07-Jan-23	-19		
Turbine Hall Bld Four Turbine Hall Piling Work		210	57		31-May-22	25-Jan-23 05-Dec-22	11-Nov-22	10-Feb-23 16-Nov-22	16 -19		
09-1730-1(M55)	Driven H Pile Installations (143 nrs ~55m(D), @60m/d 2 Groups)	68	2			01-Dec-22	11-Nov-22	12-Nov-22	-19		
09-1740	Pile Load Test	8	4	50%	15-Nov-22 A	05-Dec-22	13-Nov-22	16-Nov-22	-19	5-Nov-22 A	
Turbine Hall Pile Caps C		51	51			25-Jan-23		10-Feb-23	16		
09-1750 09-1760	Excavation to Pile Cap Formation Pile Cut-off & Capping Plate (219 nrs, @10nr/d)	21	21 21		06-Dec-22 11-Dec-22	26-Dec-22 31-Dec-22	17-Nov-22 26-Nov-22	07-Dec-22 16-Dec-22	-19 -15	06-	Dec
09-1770	Pile Caps and Ground Beam Construction for TBS1 & Electrical Bld to +6.3mPD	30	30		13-Dec-22	11-Jan-23	24-Nov-22	23-Dec-22	-19		'
09-1770-1(M58)	Install anchor bolts for TBS1 @+6.3mPD (Post-drilling)	14	14		12-Jan-23	25-Jan-23	28-Jan-23	10-Feb-23	16		
Compressor & CCCW	BId Foundation	8	4			03-Dec-22		14-Mar-23	101		
CCCW Piling Works (Driv		8	4			03-Dec-22			101	Nov 22 A 26 Nov 22 A	
09-2330 MT Plant & WT Bld Fo	Pile Load Test	8 127	4 97	50%		03-Dec-22 06-Mar-23	11-Mar-23 16-Nov-22		101 -14	Nov-22 A, 26-Nov-22 A	
MT Plant & WT Bld Piling		127	97			06-Mar-23			-14		
MT & WT Plant (Driven		127	97			06-Mar-23	16-Nov-22	20-Feb-23	-14		
09-1860(6) 09-1870-1(M54)	Predrilling for Driven Pile founding determination (56nr ~60m, @15m/d, 8 Rigs)	28	7 90			06-Dec-22		22-Nov-22	-14	07	7 Do
WMF Substation Build	Driven H Pile Installations (120 nrs ~45m(D), @60m/d 1 Group) ding Foundation	136	90 106	U%		06-Mar-23	23-1N0V-22 11-Dec-22	20-Feb-23 26-Mar-23	-14 11		7-De
IWMF Substation Piling		106	76			13-Feb-23		24-Feb-23	11		
09-1970(6)	Predrilling for Driven Pile founding determination (15nr ~60m, @15m/d, 4 Rigs)	15	8	46.67%	17-Oct-22 A	07-Dec-22		18-Dec-22	11		
09-1980	Driven H Pile Installations (120 nrs ~60m(D), @60m/d 2 Groups)	60	60	0%	08-Dec-22	05-Feb-23	19-Dec-22	16-Feb-23	11	C	08-D
Month Rolli e 15 of 17	ng Programme (November 2022)					Actua	aining Work al Work al Remainir	•	<ul><li>◆ Actual N</li><li>◆ Critical I</li></ul>		

Facilities, Pl			2023	
Dec		Jan	2020	Feb
61		62		63
08-Dec-22, Pile Load	Test			
07 D 00 Dila L				
07-Dec-22, Pile Load 1	est			
24-D	ec-22, Excavati	on to Pile	Cap Forma	tion
	·			e (76 nrs, 4nr/d)
)ec-22	08-J	an-23, Pil	e Caps Cons	struction (26nrs 8set (
Excavation to Pi	e Can Formati	on 13-De	22 13-Der	-22 Excavation to Pi
	2, Pile Cut-off &			
-22	· · · · · · · · · · · · · · · · · · ·		23, Pile Cap	s and Raft Foundation
25-Dec-22				vation to Pile Cap For
	lan-23 💻	2		ile Cut-off & Capping
09	lan-23 💻		28-Jai	n-23, Pile Caps Const
	04-Jan-2	3 Pile Cu	t-off & Cappi	ing Plate (207 nrs, 8n
22	0. Jun 20			Caps and Raft Founda
	}			
ec-22	10-			Pile Raft Foundation
26-Dec-22		20		cavation to Pile Cap F
	17-Jan-23			Pile Cut-off & Capping
	2-Jan-23 💻		30-J	an-23, Pile Caps Con
	ļ			
				2, Excavation to Pile
Pile Cut-off	& Capping Pla	ite (376 nr		8-Dec-22, 18-Dec-22,
			Pile	Caps Construction (52
	·	30-Jan	-23	
				, @60m/d 2 Groups)
27	-Dec-22, Drive	n H Pile I	nstallations	at Zone 4 (31 nrs ~55
-22 27	Dec-22 Even	vation to F	ile Can For	mation (Module 1)
-Dec-22				ping Plate (Module 1)
-22				Construction (Module
28-Dec-22	· · · · · · · · · · · · · · · · · · ·			23, Tie Beam s Constr
	· · · · · · · · · · · · · · · · · · ·			
n H Pile Installations (1	·			01-Dec-22, 01-Dec-2
Pile Load Test, 05-Dec-2	z, 05-Dec-22, F	lie Load	lest	
26-	Dec-22, Excav	ation to Pi	le Can Form	nation
20				Plate (219 nrs, @10n
22	• • • • • • • • • • • • • • • • • • •			nd Ground Beam Cons
	2-Jan-23 🗖	,		3, Install anchor bolts
Dec-22, Pile Load Test,	PileLoadTest,	03-Dec-2	2	
Predrilling for Driven Pi	le founding det	ermination	n (56nr ~60n	n, @15m/d, 8 Rigs). 0
<u> </u>				, g-/,
07-Dec-22, Predrilling	tor Driven Pile	tounding	peterminatio	
	:			05-Feb-23, Driven I

	Activity Name	Original Duration	Remaining Duration	Activity % Current Start Complete	Current Finish	Late Start	Late Finish	Total Float M60 Remarks	Nov
09-1990	Pile Load Test	8	8	0% 06-Feb-23	13-Feb-23	17-Feb-23	24-Feb-23	11	60
IWMF Substation Pile		30			15-Mar-23		26-Mar-23	11	
09-2000	Excavation to Pile Cap Formation nd Associated Structures Foundation	30			15-Mar-23	25-Feb-23 26-Apr-23	26-Mar-23 12-May-23	11 48	
	ing Works ( Driven H-pile)	23			25-Mar-23	26-Apr-23		48	
09-2020(M57)	Predrilling for Driven Pile founding determination (30nr ~60m, @15m/d, 4 Rigs)	23				26-Apr-23	12-May-23	48	
Pipe Bridge Foundat	ion	105 105			19-Jan-23		12-Mar-23 12-Mar-23	52 52	
Pipe Bridge B Pipe Bridge B Piling V	Vorks Piling Works ( Driven H-pile)	63			A 08-Dec-22		29-Jan-23	52	
09-2450	Driven H Pile Installations (33 nrs ~55m (D), @60m/d 1 Group)	31		96.77% 15-Sep-22 A		21-Jan-23	21-Jan-23	52	
09-2460 Pipe Bridge B Pile Car	Pile Load Test	8	8 42	0% 01-Dec-22	08-Dec-22 19-Jan-23	22-Jan-23 30-Jan-23	29-Jan-23	52 52	01-Dec-22
99-2470	Excavation to Pile Cap Formation	21			29-Dec-22	30-Jan-23	19-Feb-23	52	09-
09-2480	Pile Cut-off & Capping Plate (33 nrs, @ 4nr/d)	21	21	0% 16-Dec-22	05-Jan-23	06-Feb-23	26-Feb-23	52	
09-2490	Pile Caps Construction to +5.0mPD (33nr, 4set @ 1nr/7d)	30		0% 21-Dec-22		11-Feb-23	12-Mar-23	52	
Pipe Bridge C Pipe Bridge C Piling V	Vorks Piling Works ( Driven H-pile)	<u>63</u>			08-Dec-22		23-Dec-22 23-Dec-22	15 15	
09-2500	Driven H Pile Installations (20 nrs ~55m (D), @60m/d 1 Group)	19					15-Dec-22	15	
09-2510	Pile Load Test	8		0% 01-Dec-22			23-Dec-22	15	01-Dec-22
leavy Load Access		37			05-Jan-23 05-Jan-23	24-Nov-22	12-Jan-23 12-Jan-23	7	
09-3000(6D)	500mm Sub Base & Road Base	37			29-Dec-22	24-Nov-22 24-Nov-22		-6	30-Nov-22
09-3010(6D)	Compaction, Leveling & Testing	30	30	0% 07-Dec-22		14-Dec-22	12-Jan-23	7	07-De
uperstructural Wo		162		· · · · ·	A 22-Mar-23		25-Apr-23	34	
	Waste Bunker & Tipping Hall Bld Structure	56			18-Mar-23	22-Jan-23	18-Mar-23 18-Mar-23	0	
Waste & Ash Bunker Bl Process Building (Mo	d Structure dule 1) Waste & Ash Bunker Bld Structure	<u> </u>			18-Mar-23 18-Mar-23	22-Jan-23 22-Jan-23	18-Mar-23	0	
10-1090	Beam & Slab to +2.5mPD	14	14		04-Feb-23	22-Jan-23	04-Feb-23	0	
10-1100	Column & Wall to +6.0m PD	21	21	0% 05-Feb-23	25-Feb-23	05-Feb-23	25-Feb-23	0	
10-1110 Tipping Hall Bld Struct	Beam & Slab to +6.0mPD	21	21 21	0% 26-Feb-23	18-Mar-23 20-Feb-23	26-Feb-23 13-Feb-23	18-Mar-23 05-Mar-23	0 14	
	dule 3) WWTP Structure	21			20-Feb-23	13-Feb-23	05-Mar-23	14	
10-3000(6F)	Slab to +2.0mPD	14			13-Feb-23		26-Feb-23	14	
10-3010(6F)	Slab to +3.5mPD Boiler & Flue Gas Treatment Bid Structure	21	21 104	0% 30-Jan-23	20-Feb-23	13-Feb-23	05-Mar-23 25-Apr-23	14 43	
Steel Structure		153			13-Mar-23		25-Apr-23	43	
Boiler Building Steel S		140			28-Feb-23		25-Apr-23	56	
Process Building (Mo 10-1620	bdule 1) Steel Structure Erection Steel Roof Truss Ground Assembly Works	133 60	84 17		A 21-Feb-23 A 16-Dec-22		25-Apr-23 10-Dec-22	63 -6	
10-1630	Steel Roof Truss Lifting (BM1)	15				04-Dec-22		-5	09-
10-1640	Roof Cladding Installation	60	60	0% 24-Dec-22	21-Feb-23	25-Feb-23	25-Apr-23	63	
Process Building (Mo 10-1650	bdule 2) Steel Structure Erection	89 60			28-Feb-23	11-Dec-22		-6 9	02 Doo 21
10-1660	Erection of Mega Columns (2nos @30d /column /gang x 2) Steel Roof Truss Ground Assembly Works	60		0% 02-Dec-22 0% 17-Dec-22	30-Jan-23 14-Feb-23	11-Dec-22 11-Dec-22		-6	02-Dec-22
10-1670	Steel Roof Truss Lifting (BM2)	14			28-Feb-23		22-Feb-23	-6	
Flue Gas Treatment Bl		64			13-Mar-23		05-Feb-23	-36	<b></b>
Process Building (Mo 10-1730	bdule 1) Steel Structure Erection Erection of Mega Columns (2nos @30d /column /gang x 2)	64 30	64 30	09-Jan-23 0% 09-Jan-23	13-Mar-23 07-Feb-23		05-Feb-23 22-Jan-23	-36 -16	
10-1740	Steel Roof Truss Ground Assembly Works	30	30	0% 09-Jan-23	07-Feb-23	24-Dec-22		-16	
10-1750	Steel Roof Truss Lifting (FM1)	14	14	0% 28-Feb-23	13-Mar-23	23-Jan-23	05-Feb-23	-36	
ACC Equipment Stru		30			25-Feb-23	08-Jan-23	06-Feb-23	-19	
09-1720 Turbine Hall Bld Stru	Base Slab Construction (Module 1 @+6.5mPD)	30 70		0% 27-Jan-23 12-Jan-23	25-Feb-23 22-Mar-23	08-Jan-23	06-Feb-23 06-Mar-23	-19 -16	
Turbine Hall Electrical I		70			22-Mar-23		06-Mar-23	-16	
10-1910	Slab to +6.0mPD	14			25-Jan-23	27-Dec-22		-16	
10-1920	Column & Wall to +15.0mPD	14			08-Feb-23	10-Jan-23	23-Jan-23	-16	
10-1930	Beam & Slab to +15.0mPD Column & Wall to +19.5mPD	14		0% 09-Feb-23 0% 23-Feb-23	22-Feb-23 08-Mar-23	24-Jan-23 07-Feb-23	06-Feb-23 20-Feb-23	-16	
10-1950	Beam & Slab to +19.5mPD	14			22-Mar-23	21-Feb-23	06-Mar-23	-16	
Turbine Hall TBS1		35			15-Feb-23	06-Jan-23		-6	
10-2300	Slab to +6.0mPD Column & Wall to +15.0mPD & +23.5mPD	14			25-Jan-23 01-Feb-23	06-Jan-23 13-Jan-23	19-Jan-23 26-Jan-23	-6	_
10-2310	Beam & Slab to +28.0mPD	14			15-Feb-23	27-Jan-23	09-Feb-23	-6	
STG Foundation (PC1		31			11-Feb-23	07-Jan-23	06-Feb-23	-5	<b>—</b>
10-1990-1(M58)	STG Foundation construction and install anchor bolts @ +9.5	21		0% 12-Jan-23	01-Feb-23	07-Jan-23	27-Jan-23	-5	
10-1990-2(M58)	STG Foundation construction and install anchor bolts @ +10.77	10	10 154	0% 02-Feb-23 30-Jan-23	11-Feb-23 02-Jul-23	28-Jan-23	06-Feb-23 21-Jun-23	-5 -11	
Process Equipmen	IT INSTALLATION Waste Bunker & Tipping Hall Bld Process Equipment Installation	0			30-Jan-23		12-Feb-23	14	
Flocess Buildings -		v	v						
Ionth Roll	ing Programme (November 2022)				Rema	aining Work	c 🔶	Actual Milesto	ne
e 16 of 17	5 - 5				Actua	al Work	•	<ul> <li>Critical Milesto</li> </ul>	one
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	hase 1 Environmental Protection Department
Dec	2023 Jan Feb
61	62 63
	06-Feb-23 13-Feb-23,
	14-Feb-23
	·
-22, Driven H Pile Inst	
08-Dec-22, Pile Load	lest
	00 Dec 00 Everytien to Bile Can Formation
	29-Dec-22, Excavation to Pile Cap Formation
-22	05-Jan-23, Pile Cut-off & Capping Plate (33 nrs, @
1-Dec-22	19-Jan-23, Pile Caps Construction to
22 Driven H Bile Is+	dilations (20 pro ~55m/D) @60m/d 1 Orace) Driver U.D.
	allations (20 nrs ~55m(D), @60m/d 1 Group), Driven H Pile
08-Dec-22, Pile Load	,iesi
	20 Doc 22 500mm Sub Poor & Poort Poor
	29-Dec-22, 500mm Sub Base & Road Base 05-Jan-23, Compaction, Leveling & Testing
	US-Jan-25, Compaction, Leveling & lesting
	22-Jan-23 04-Feb-23, Beam &
	05-Feb-23
	26-Feb-23
	30-Jan-23 13-Feb-23,
	30-Jan-23 20-F
	· · · · · · · · · · · · · · · · · · ·
Steel Roof Tr	us Ground Assembly Works, 16-Dec-22, 16-Dec-22, Stee
	······································
<u></u>	ec-22, Steel Roof Truss Lifting (BM1)
24-Dec-22	22, Steel Roof Trus s Lifting (BM1)
24-Dec-22	22-22, Steel Roof Trus s Lifting (BM1)
24-Dec-22	21-
	21 30-Jan-23, Erection of Me
	21- 30-Jan-23, Erection of Me 14-Feb-23 15-Feb-23
24-Dec-22	21 30-Jan-23, Erection of Me 14-Feb-23
	21- 30-Jan-23, Erection of Me 14-Feb-23
20-22	21- 30-Jan-23, Erection of Me 14-Feb-23 15-Feb-23 4an-23 07-Feb-23, Erecti
.c-22 09-	21- 30-Jan-23, Erection of Me 14-Feb-23 15-Feb-23 Jan-23 07-Feb-23, Erection
.c-22 09-	21- 30-Jan-23, Erection of Me 14-Feb-23 15-Feb-23 Jan-23 07-Feb-23, Erection
.c-22	21- 30-Jan-23, Erection of Me 14-Feb-23 15-Feb-23 Jan-23 07-Feb-23, Erecti Jan-23 07-Feb-23, Steel
.c-22 09-	21- 30-Jan-23, Erection of Me 14-Feb-23 15-Feb-23 Jan-23 07-Feb-23, Erecti Jan-23 07-Feb-23, Steel 28-Feb-23
.c-22 09-	21- 30-Jan-23, Erection of Me 14-Feb-23 15-Feb-23 Jan-23 07-Feb-23, Erecti Jan-23 07-Feb-23, Steel
.c-22 09-	21- 30-Jan-23, Erection of Me 14-Feb-23 15-Feb-23 Jan-23 07-Feb-23, Erecti Jan-23 07-Feb-23, Steel 28-Feb-23
09- 09-	21 30-Jan-23, Erection of Me 14-Feb-23 15-Feb-23 07-Feb-23, Erection Jan-23 07-Feb-23, Erection Jan-23 07-Feb-23, Steel 28-Feb-23 27-Jan-23
09- 09-	21 30-Jan-23, Erection of Me 14-Feb-23 15-Feb-23 07-Feb-23, Erecti Jan-23 07-Feb-23, Steel 28-Feb-23 27-Jan-23 27-Jan-23 25-Jan-23, Slab to +6.0mPD
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Activity ID	Activity Name	Original	Remaining	Activity % C	Current Start	Current Finish	Late Start	Late Finish	Total Flo	at M60 Remarks		2022	20	.023
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Piping and Instrume	ent Installation and Connection Works	0	0	3	30-Jan-23	30-Jan-23	12-Feb-23	12-Feb-23	1	4				
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Process Buildings	s - Boiler House & Flue Gas Treatment Bld Process Equipment Installation	132	132	2	21-Feb-23	02-Jul-23	24-Dec-22	21-Jun-23	-1	1				
Process Building (Ir	nstallation TPU Module)	132	132	2	21-Feb-23	02-Jul-23	24-Dec-22	21-Jun-23	-1	1				
TPU Train 1		126	126	2	21-Feb-23	26-Jun-23	24-Dec-22	21-Jun-23	-	5			1	
= 13-1030	Delivery, inspection and Transport Boiler Train to Position by SPMT (TPU Train 1)	6	6	0% 2	21-Feb-23	26-Feb-23	24-Dec-22	29-Dec-22	-5	Э				21-Feb-23 💻
= 13-1050	Remaining Equipment Installation at GL	120	120	0% 2	27-Feb-23	26-Jun-23	22-Feb-23	21-Jun-23	-	5				27-Feb-23 📕
TPU Train 2		126	126	2	27-Feb-23	02-Jul-23	30-Dec-22	21-Jun-23	-1	1			r	
13-1120	Delivery, inspection and Transport Boiler Train to Position by SPMT (TPU Train 2)	6	6	0% 2	27-Feb-23	04-Mar-23	30-Dec-22	04-Jan-23	-5	Э			1	27-Feb-23
13-1140	Remaining Equipment Installation at GL	120	120	0% 0	)5-Mar-23	02-Jul-23	22-Feb-23	21-Jun-23	-1	1			1	05-Mar-
Process Building (Ir	nstallation of Flue Gas Module)	13	13	0	06-Apr-23	18-Apr-23	06-Feb-23	18-Feb-23	-5	9				
FGC Train 1		6	6	0	06-Apr-23	11-Apr-23	06-Feb-23	11-Feb-23	-5	Ð			, ,	
13-1570	Delivery, inspection and Transport Flue Gas Train to Position by SPMT (FGC Train 1)	6	6	0% 0	06-Apr-23	11-Apr-23	06-Feb-23	11-Feb-23	-5	Э				
FGC Train 2		6	6	1	13-Apr-23	18-Apr-23	13-Feb-23	18-Feb-23	-5	Ð			( (	
13-1640	Delivery, inspection and Transport Flue Gas Train to Position by SPMT (FGC Train 2)	6	6	0% 1	13-Apr-23	18-Apr-23	13-Feb-23	18-Feb-23	-5	Э			1	
ACC Equipment In	nstallation	114	114	0	)5-Mar-23	26-Jun-23	14-Feb-23	07-Jun-23	-1	9				
ACC Unit 1 Installati	ion	114	114	0	05-Mar-23	26-Jun-23	14-Feb-23	07-Jun-23	-1	9				
13-2000	Site preparation & Installation of ACC Equipment (unit 1)	114	114	0% 0	05-Mar-23*	26-Jun-23	14-Feb-23	07-Jun-23	-1	Э			1	05-Mar-2
Turbine Hall Bld E	Equipment Installation	61	61	1	19-Feb-23	20-Apr-23	13-Feb-23	14-Apr-23	-	6				
Turbine Hall Module	1 Installation	61	61	1	9-Feb-23	20-Apr-23	13-Feb-23	14-Apr-23	-	6				
13-2120	STG and TBS Module 1 Installation	60	60	0% 2	20-Feb-23*	20-Apr-23	14-Feb-23	14-Apr-23	-	6				20-Feb-23*
13-2160(6)	Install Maintenance Girder & Crane at Module 1 @+22.247mPd	30	30	0% 1	19-Feb-23	20-Mar-23	13-Feb-23	14-Mar-23	-	6				19-Feb-23
Landscape, Exte	rnal Road and Drains Works	285	163	2	28-Apr-22 A	11-May-23	27-Feb-23	28-Sep-23	14	)				
Drainage Works		60	60	1	I3-Mar-23	11-May-23	27-Feb-23	27-Apr-23	-1-	1			,	
Box Culvert		0	60		3-Mar-23	11-May-23		27-Apr-23						
East Culvert (3.5m	x 2 5m x 118m)	60	60					27-Apr-23	-	·			·	
= 14-2000	Excavation to Formation	60	60			11-May-23	27-Feb-23	_						
Earthing System		180	140			18-Apr-23	12-May-23							
16-1900-2(6)	Installation of Ground Earthing Mesh	180	140			18-Apr-23		28-Sep-23						
(0)	instantion of Ground Earthing Mesh	180	140	22.22%	20-Apr-22 A	18-Apr-23	12-1viay-23	28-Sep-23	16	2			(	

3-Month Rolling Programme (November 2022) Page 17 of 17		<ul><li>Remaining Work</li><li>Actual Work</li></ul>	<ul><li>♦</li><li>♦</li></ul>	<ul><li>Actual Milestone</li><li>Critical Milestone</li></ul>
		Critical Remaining Wor	k	
	<b>♦</b>	♦ Milestone		

# Appendix B Summary of Implementation Status of Environmental Mitigation

### Appendix B

Table B.1	Implementation Schedule for Air Quality Measures for the IWMF at the artificial island n	ear SKC
	implementation ochequie for All guality measures for the twinn at the artificial Island h	

	Environmentel Dretestian	Lesster (		Imple	ementa	ation S	tages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	IIIDIEIIIEI		Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
S3b.8.1	<ul> <li><u>Air Pollution Control (Construction Dust)</u> <u>Regulation &amp; Good Site Practices</u></li> <li>Use of regular watering, with complete coverage, to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather.</li> <li>Use of frequent watering for particularly dusty construction areas and areas close to ASRs.</li> <li>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 shall be applied to aggregate fines.</li> <li>Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs.</li> <li>Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.</li> <li>Establishment and use of vehicle wheel and body washing facilities at the exit points of the site.</li> <li>Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading</li> </ul>	Work site / During the construction period	Contractor					Air Pollution Control (Construction Dust) Regulation	Implemented. N/A for dust control measures for transportation outside site boundary.

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				Imple	ementa	ation S	tages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	<ul> <li>points, and use of water sprinklers at the loading area where dust generation is likely during the loading process of loose material, particularly in dry seasons/ periods.</li> <li>Imposition of speed controls for vehicles on unpaved site roads. Ten kilometers per hour is the recommended limit.</li> <li>Where possible, routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs</li> <li>Instigation of an environmental monitoring and auditing program to monitor the construction process in order to enforce controls and modify method of work if dusty conditions arise.</li> </ul>								
S3b.6.3	<ul> <li>Odour Removal by Deodorizers</li> <li>Deodorizers with 95% odour removal efficiency would be installed for the air ventilated from the mechanical treatment plant before discharge to the atmosphere</li> </ul>	Waste reception halls, the waste storage area, the mechanical treatment plant / During design & operation phase	IWMF Operator	~		✓		EIAO-TM	N/A
S3b.8.2	Air Pollution Control and Stack Monitoring	IWMF stack emissions / During	IWMF Operator	~		~		EIAO-TM, Supporting Document for	N/A

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	Environmental Protoction			Imple	ementa	tion S	tages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	<ul> <li>Air pollution control and stack monitoring system will be installed for the IWMF to ensure that the emissions from the IWMF stack will meet the proposed target emission limits.</li> <li>Voluntary Enhancement Measures in Flue Gas Cleaning and Emission Monitoring: <ol> <li>Two-stage bag filter system with reagent recirculation;</li> <li>In addition to SCR, provide SNCR for removal of NO_x; tighten emission limit for halfhourly and daily NO_x to 160 mg/m³ and 80 mg/m₃ respectively;</li> <li>Well-mixed feed waste: to minimize the fluctuation of pollutant loading on the flue gas treatment system;</li> <li>Two more AQMSs would be set up at South Lantau and Shek Kwu Chau respectively;</li> </ol> </li> </ul>	design & operation phase	Agent						Remarks
	any of the air pollutant has exceeded 95% of the emission concentration limit as stipulated								
	in the Special Process license; and								

	Environmental Protection	Location / Timing		Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures		Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	
	<ol> <li>Each incineration chamber shall be fitted with auxiliary burners to ensure complete burn out of the combustion gases.</li> </ol>								
-	<ul> <li>Treated Fly Ash and Air Pollution Control Residues:</li> <li>During testing and commissioning, the Contractor shall sample and test every container of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit. If a test result confirms that any one of the samples does not conform to the limits and the criteria, the Contractor shall be required to sample and test every container of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and test every container of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria for the next six months.</li> <li>During the first six months of operation, if the requirements in (a) could be fully conformed with, the Contractor shall sample and test every shipload of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria for the next six months.</li> </ul>	IWMF stack emissions / During design & operation phase	IWMF Operator					Supporting Document for Application for Variation of Environmental Permit (EP- 429/2012)	N/A

				Imple	ementa	ation S	Stages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	of the Environmental Permit. The								
	Contractor shall take two samples								
	from each shipload for testing and								
	the Contractor shall not dispose of								
	any of that shipload of treated fly ash								
	and air pollution control residues until								
	the test results confirm that the two								
	samples conform to the limits and the								
	criteria. If a test result confirms that								
	any one of the two samples does not								
	conform to the limits and the criteria,								
	the Contractor shall be required to								
	sample and test every shipload of								
	treated fly ash and air pollution								
	control residues for conformance to								
	the Incineration Residue Pollution								
	Control Limits and leachability								
	criteria for the next six months. The								
	Contractor shall make due allowance								
	in the Design and the Operation for								
	the time to sample and test treated fly								
	ash and air pollution control residues								
	before disposal.								
	Provided that there is no non-								
	conformance to the Incineration								
	Residue Pollution Control Limits and								
	leachability criteria shown in Table 2								
	of the Environmental Permit								
	throughout a continuous sixmonth								
	period in the Operation Period, the								
	testing frequency shall be reduced to								
	monthly interval. Two samples from								
	one shipload of treated fly ash and air								

	Environmental Protection			Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	pollution control residues shall be collected and tested for conformance to the Incineration Residue Pollution Control Limits and leachability criteria. The Contractor shall not dispose of any of the treated fly ash and air pollution control residues in the shipload which the samples are taken until the test results confirm that the samples conform to the limits and the criteria. If the test result confirm that any one of the samples does not conform to the limits and the criteria, the Contractor shall be required to sample and test every shipload of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit for the next six months.								
-	<ul> <li>Bottom Ash:</li> <li>During testing and commissioning, the Contractor shall sample and test every container of bottom ash for conformance to the leachability criteria shown in Table 2 of the Environmental Permit. If a test result confirms that any one of the samples does not conform to the criteria, the Contractor shall be required to sample and test every</li> </ul>	IWMF stack emissions / During design & operation phase	IWMF Operator	~		~		Supporting Document for Application for Variation of Environmental Permit (EP- 429/2012)	N/A

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				Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	container of bottom ash for								
	conformance to the leachability								
	criteria for the next six months.								
	• During the first six months of								
	operation, if the requirements in (d)								
	could be fully conformed with, the								
	Contractor shall sample and test								
	one shipload of bottom ash each month for conformance to the								
	leachability criteria shown in Table 2								
	of the Environmental Permit. The								
	Contractor shall take two samples								
	from the shipload for testing and the								
	Contractor shall not dispose of any								
	of that shipload of bottom ash until								
	the test results confirm that the two								
	samples conform to the criteria. If a								
	test result confirms that any one of								
	the two samples does not conform								
	to the criteria, the Contractor shall								
	be required to sample and test each								
	shipload of bottom ash for								
	conformance to the leachability criteria for the next six months. The								
	Contractor shall make due								
	allowance in the Design and the								
	Operation for the time to sample and								
	test bottom ash before disposal.								
	<ul> <li>Provided that there is no non-</li> </ul>								
	conformance to the leachability								
	criteria shown in Table 2 of the								
	Environmental Permit throughout a								
	continuous six month period in the								

	Environmental Protection			Imple	lementation Stages*			Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	res Timing Agent	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	Operation Period, the Contractor shall be allowed to take two samples from any one shipload of bottom ash once every six months for conformance to the leachability criteria. The Contractor shall not dispose of any of the bottom ash in the shipload which the samples are taken until the test results confirm that the samples conform to the criteria. If the test result confirm that any one of the samples does not conform to the criteria, the Contractor shall be required to sample and test one shipload of bottom ash each month for conformance to the leachability criteria shown in Table 2 of the Environmental Permit for the next six months as stipulated above.								

* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

#### Table B.2 Implementation Schedule for Noise Impact Measures for the IWMF at the artificial island near SKC

	Measures / Mitigation Measures				Imple	ementa	ation S	tages*	Relevant	
EIA Ref		Location / Timing	Implementation Agent		Des	С	СО		Legislation and Guidelines	Implementation Status and Remarks
S4b.8	Good site practices to limit noise emissions a source and use of quiet plant and working methods, whenever practicable.	Work Sites / Construction Period	EPD and contractors	its		~			EIAO-TM	Implemented
& S4b.8	All the ventilation fans installed in the below will be provided with silencers or acoustics treatment. (i) Stack of the incinerator (ii) Ventilation systems within the IWMF Enclosure and discharge silencer or other acoustic treatment equipment should be installed in the air-cooled chillers Other than provision of silencer or other acoustic treatment equipment for the stack of the incinerator and ventilation system, the detailed design should incorporate the following good practice in order to minimize the nuisance on the neighboring NSRs. (i) The exhaust of the ventilation system and any opening of the building should be located facing away from any NSRs; and	Within IWMF area / Construction Period	EPD and contractors	its	×		×		EIAO-TM	N/A
	<ul> <li>Louver or other acoustic treatment equipment could also be applied to the exhaust of the ventilation system.</li> </ul>									

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				Imple	ementa	ation S	tages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	Implementation Status and Remarks
-	<ul> <li><u>Voluntary Enhancement Measure</u></li> <li>Provision of air-conditioner and double glazed windows to nearby NSR at Shek Kwu Chau (i.e. SARDA) as precautionary measures.</li> </ul>	IWMF site	Design team, contractor, IWMF operator	✓	~			Supporting Document for Application for Variation of Environmental Permit (EP- 429/2012)	Implemented

* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

#### Table B.3 Implementation Schedule for Water Quality Measures for the Artificial Island near SKC

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant	
				Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
S5b.8.1.1		Work site / During the construction period	Contractor					Guidelines EIAO-TM; ProPECC PN 1/94; WPCO	Deficiency of Mitigation Measures but rectified by the Contractor

EIA Ref	Environmental Protection Measures / Mitigation Measures			Implementation Stag	Stages*	Relevant			
		Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silt/sand traps should be 5 minutes under maximum flow conditions. The detailed design of the sand/silt traps shall be undertaken by the contractor prior to the commencement of construction.								
	<ul> <li>Water pumped out from foundation piles must be discharged into silt removal facilities.</li> </ul>								
	<ul> <li>Measures should be taken to minimize the ingress of site runoff and drainage into excavations. Drainage water pumped out from excavations should be discharged into storm drains via silt removal facilities.</li> </ul>								
	<ul> <li>During rainstorms, exposed slope/soil surfaces should be covered by a tarpaulin or other means, as far as practicable. Other measures that need to be implemented before, during and after rainstorms are summarized in ProPECC PN 1/94.</li> </ul>								
	<ul> <li>Exposed soil areas should be minimized to reduce potential for increased siltation and contamination of runoff.</li> </ul>								

EIA Ref	Environmental Protection Measures / Mitigation Measures			Implementation Stages*				Relevant	
		Time in a	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	<ul> <li>Earthwork final surfaces should be well compacted and subsequent permanent work or surface protection should be immediately performed.</li> <li>Open stockpiles of construction</li> </ul>								
	materials or construction wastes on-site should be covered with tarpaulin or similar fabric during rainstorms.								
S5b.8.1.2	General Construction Activities Construction solid waste should be collected, handled and disposed of properly to avoid entering to the nearby watercourses and public drainage system. Rubbish and litter from construction sites should also be collected to prevent spreading of rubbish and litter from the site area.	Work site / During the construction period	Contractor		~			EIAO-TM; ProPECC PN 1/94; WPCO	Implemented
	It is recommended to clean the construction sites on a regular basis.								

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Time in a		Imple	ementa	ation S	tages*	Relevant Legislation and Guidelines	Implementation Status and Remarks
			Implementation Agent	Des	С	0	Dec		
S5b.8.1.3	There is a need to apply to EPD for a discharge license for discharge of effluent from the construction site under the WPCO. The discharge quality must meet the requirements specified in the discharge license. All the run-off and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM-DSS. The beneficial uses of the treated effluent for other on-site activities such as dust suppression and general cleaning etc., can minimize water consumption and reduce the effluent discharge volume. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the relevant WPCO license which is under the ambit of regional office of EPD.	During the construction	Contractor		<b>√</b>			EIAO-TM; ProPECC PN 1/94; WPCO	Discharge License was issued on 15/02/2022
S5b.8.1.4	Accidental Spillage Contractor must register as a chemical waste producer if chemical wastes would be produced from construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	Work site / During the construction period	Contractor		•			EIAO-TM; ProPECC PN 1/94; WPCO; WDO	Deficiency of Mitigation Measures but rectified by the Contractor
S5b.8.1.5		During the construction	Contractor		~			EIAO-TM; ProPECC PN 1/94; WPCO; WDO	Implemented

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EIA Ref	Environmental Protection Measures / Mitigation Measures			Impl	lementation Stages*			Relevant	
		Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	appropriately equipped to control these discharges.								
S5b.8.1.6	Oils and fuels should only be used and stored in designated areas which have pollution prevention facilities. All fuel tanks and storage areas should be sited on sealed areas in order to prevent spillage of fuels and solvents to the nearby watercourses. All waste oils and fuels should be collected in designated tanks prior to disposal.	During the construction	Contractor		✓				Deficiency of Mitigation Measures but rectified by the Contractor
S5b.8.1.7	· · · · · · · · · · · · · · · · · · ·		Contractor						Deficiency of Mitigation Measures but rectified by the Contractor
	<ul> <li>Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport.</li> <li>Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents.</li> <li>Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.</li> </ul>								

				Impl	ementa	ation S	tages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
S5b.8.1.8	Sewage Effluent Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor would be responsible. For appropriate disposal and maintenance of these facilities.	Work site / During the construction period	Contractor		~			EIAO-TM; ProPECC PN 1/94; WPCO	Implemented
S5b.8.1.9			Contractor					EIAO-TM; WPCO, Supporting Document for Application for Variation of Environmental Permit (EP- 429/2012) Further Environmental Permit No. FEP- 01/429/2012/A	N/A

				Imple	emen	tation S	stages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	of the North Western seawall, away from the identified coral communities and will be shielded by silt curtains systems to control sediment plume dispersion.								
	• The silt curtain system at marine access opening should be closed as soon as the barges passes through the marine access opening in order to minimize the period of curtain opening. Filling should only be carried out behind the silt curtain when the silt curtain is completely closed.								
	• To enhance the effectiveness of the silt curtain at the marine access, the northern breakwater would be built before the commencement of the reclamation to reduce the current velocity towards the marine access opening.								
	• The silt curtain system at marine access opening should be regularly checked and maintained to ensure proper functioning.								
	• Where public fill is proposed for filling below +2.5mPD, the fine content in the public fill will be controlled to 25% which is in line with the CEDD's General Specification;								
	• The filling for reclamation should be carried out behind the seawall. The filling material should only consist of public fill, rock and sand. The filling composition and filling rates at each filling area should follow those delineated in Table 1 of the FEP-01/429/2012/. The filling above high watermark is not restricted;								

				Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	<ul> <li>No dredging should be carried out within 16m to the nearest non-translocatable coral community;</li> </ul>								
	• Daily site audit including full-time on-site monitoring by the ET is recommended during the dredging for anti-scouring protection layer for checking the compliance with the permitted no. of grab;								
	<ul> <li>Closed grab dredger should be used to minimize the loss of sediment during the raising of the loaded grabs through the water column;</li> </ul>								
	<ul> <li>Frame-type silt curtains should be deployed around the dredging operations;</li> </ul>								
	<ul> <li>Floating-type silt curtains should be used to surround the circular cell during the sheetpiling work;</li> </ul>								
	<ul> <li>The descent speed of grabs should be controlled to minimize the seabed impact speed;</li> </ul>								
	<ul> <li>Barges should be loaded carefully to avoid splashing of material;</li> </ul>								
	<ul> <li>All barges used for the transport of dredged materials should be fitted with tight bottom seals in order to prevent leakage of material during loading and transport;</li> </ul>								
	<ul> <li>All barges should be filled to a level which ensures that material does not spill over during loading and transport to the disposal site and that adequate freeboard is</li> </ul>								

				Imple	ementa	tion S	tages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	maintained to ensure that the decks are not washed by wave action.								
	• No DCM works should be carried out within 100m to the nearest non-translocatable coral colony / colonies.								
	• Silt curtains should be employed to enclose DCM field trial and any full scale DCM work to minimize the potential impacts on water aspect.								
	<ul> <li>A sand blanket is to be placed on top of the marine deposit using tremie pipes prior to the DCM ground treatment to avoid seabed sediment disturbance.</li> </ul>								
S5b.8.2.3	<u>Operational Phase Discharges</u> A pipeline drainage system will serve the development area collecting surface runoff from paved areas, roof, etc. Sustainable drainage principle would be adopted in the drainage system design to minimize peak surface runoff, maximize permeable surface and maximize beneficial use of rainwater.	Within IWMF site / During the operational phase	IWMF Operator	~		~		WPCO	N/A
S5b.8.2.4	Oil interceptors should be provided in the drainage system of any potentially contaminated areas (such as truck parking area and maintenance workshop) and regularly cleaned to prevent the release of oil products into the storm water drainage system in case of accidental spillages. Accidental spillage should be cleaned up as soon as practicable and all waste oils and fuels should be collected and handled in	Within IWMF site / During the operational phase	IWMF Operator	~		V		WPCO; WDO	N/A

				Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	Ο	Dec	Legislation and Guidelines	
	compliance with the Waste Disposal Ordinance.								
S5b.8.2.5	Refuse Entrapment Collection and removal of floating refuse should be performed at regular intervals for keeping the water within the Project site boundary and the neighboring water free from rubbish.	Within the Project site / During the operational phase	IWMF Operator			~		WPCO	N/A
S5b.8.2.6		Transportat ion of Incineration Ash / During the operational phase	IWMF Operator			V			N/A

* Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

#### Table B.4 Implementation Schedule for Waste Management Measures for the IWMF at the artificial island near SKC

							tages*		Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
6b.5.1.2	<ul> <li><u>Good Site Practices</u></li> <li>Adverse environmental impacts in relation to waste management are not expected, provided that good site practices are strictly followed. Recommendations for good site practices during the construction activities would include:</li> <li>Obtain relevant waste disposal permits from appropriate authorities, in accordance with the Waste Disposal Ordinance (Cap. 354) and subsidiary Regulations and the Land (Miscellaneous Provisions) Ordinance (Cap. 28);</li> <li>Provide staff training for proper waste management and chemical handling procedures;</li> <li>Provide sufficient waste disposal points and regular waste collection;</li> <li>Provide appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; and</li> <li>Carry out regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors;</li> <li>Separate chemical wastes for special handling and disposed of to licensed facility for treatment; and</li> <li>Employ licensed waste collector to collect waste.</li> </ul>	Work Site/ During Construction Period	Contractor					ETWB TCW	Deficiency of Mitigation Measures but rectified by the Contractor

				Imp	lementa	ation S	stages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
6b.5.1.3	Waste Reduction Measures Good management and control can prevent the generation of a significant amount of waste. Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices.	Work Site/ During Design & Construction Period	Contractor	<b>√</b>	<b>v</b>				Implemented. N/A for demolition items
	<ul> <li>Recommendations to achieve waste reduction include:</li> <li>Design foundation works that could minimize the amount of excavated material to be generated.</li> </ul>								
	<ul> <li>Provide training to workers on the importance of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling;</li> </ul>								
	<ul> <li>Sort out demolition debris and excavated materials from demolition works to recover reusable/recyclable portions (i.e. soil, broken concrete, metal etc.);</li> </ul>								
	<ul> <li>Segregate and store different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal;</li> </ul>								
	<ul> <li>Encourage the collection of aluminum cans by providing separate labelled bins to enable this waste to be segregated from other general refuse generated by the work force;</li> </ul>								
	<ul> <li>Proper storage and site practices to minimize the potential for damage or contamination of construction materials; and</li> </ul>								

				Imp	olement	ation St	tages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Indenenation		С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	<ul> <li>Plan and stock construction materials carefully to minimize amount of waste to be generated and to avoid unnecessary generation of waste.</li> </ul>								
6b.5.1.7	Dredged Sediment – Application of Dumping Permit The project proponent should agree in advance with MFC of CEDD on the site allocation. The project proponent or contractor for the dredging works shall then apply for the site allocations of marine sediment disposal based on the prior agreement with MFC/CEDD. The project proponent or contractor should also be responsible for the application of all necessary permits from relevant authorities, including the dumping permit as required under DASO from EPD, for the disposal of dredged sediment prior to the commencement of the dredging works.	Seawall and Reclamation site / Construction Period	EPD and its contractor	5 🗸	×			DASO ETWB TCW 34/2002	Implemented
6b.5.1.8	Dredged Sediment – Sediment Quality Report The project proponent or contractor will need to satisfy the appropriate authorities that the quality of the marine sediment to be dredged has been identified according to the requirements of ETWB TCW 34/2002. This should be completed well before the dredging works and would include at least the submission of a formal Sediment Quality Report under Tier I of ETWB TCW No. 34/2002 to DEP for approval. Subject to advice from DEP, it is possible that further marine SI in	Seawall and Reclamation site / Construction Period	EPD and its contractor	5 ✓				DASO ETWB TCW 34/2002	Implemented

				Impl	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	accordance with ETWB TCW 34/2002 might be necessary for the application of dumping permit under DASO. In such case, a sediment sampling and testing proposal shall be submitted to and approved by DEP before the additional marine SI works.								
6b.5.1.9	Dredged Sediment – Sediment <u>Transportation</u> The barge transporting the sediments to the designated disposal sites should be equipped with tight fitting seals to prevent leakage and should 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 by the DEP.	Seawall and Reclamation site / Construction Period	EPD and its contractor		✓			DASO ETWB TCW 34/2002	Implemented
6b.5.1.10		Work Site/ During Design & Construction Period	Contractor	×	*			ETWB TCW No. 19/2005	Implemented

				Impl	ementa	ation S	tages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	(EMP), should be prepared in accordance with ETWB TCW No.19/2005;								
	<ul> <li>A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be adopted for easy tracking; and</li> </ul>								
	• In order to monitor the disposal of C&D materials at public filling facilities and landfills and to control fly-tipping, a trip- ticket system should be adopted (refer to <i>ETWB TCW No. 31/2004</i> ).								
6b.5.1.1 1 – 6b.5.1.12	The Contactor should prepare and implement an EMP in accordance with	During Design &	Contractor	×	*			ETWB TCW No. 19/2005	Implemented

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				Imple	menta	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	All surplus C&D materials arising from or in connection with construction works should become the property of the Contractor when it is removed unless otherwise stated. The Contractor would be responsible for devising a system to work for on-site sorting of C&D materials and promptly removing all sorted and process materials arising from the construction activities to minimize temporary stockpiling on-site. The system should be included in the EMP identifying the source of generation, estimated quantity, arrangement for on-site sorting, collection, temporary storage areas and frequency of collection by recycling Contractors or frequency of removal off-site.								
6b.5.1.13		Work Site/ During Construction Period	Contractor		V			Waste Disposal (Chemical Waste) (General) Regulation	Implemented.

				Impl	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	licensed collector to transport and dispose of the chemical wastes, to either the Chemical Waste Treatment Centre at Tsing Yi, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.								
6b.5.1.14		Work Site/ During Construction Period	Contractor		×			and Municipal	Deficiency of Mitigation Measures but rectified by the Contractor
6b.5.1.1 6 – 6b.5.1.33	Biogas Generation The Contractor shall review the data and analysis results, and the data from further Site Investigation, if any. Subject to the review findings, the following gas protection measures may be considered if necessary: - gas monitoring after reclamation; - passive ventilation; - gas impermeable membrane; - ventilation with "at risk" rooms; - protection of utilities or below ground services;	Reclamation site (if dredging at the reclamation site is not required) / Design & Construction Period	Designer and/or contractor	✓	×			EPD/TR8/97	N/A

				Impleme	ntation	Stages*	Relevant
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des C	0	Dec	Legislation Implementation Status and and Remarks Guidelines
6b.5.2.1	Measures         - precautions during construction works;         - precautions prior to entry of belowground services         Good Site Practices         It is recommended that the following good operational practices should be adopted to minimise waste management impacts:         • Obtain the necessary waste disposal permits from the appropriate authorities, in accordance with the Waste Disposal Ordinance (Cap. 354) and Waste Disposal (Chemical Waste) (General) Regulation;         • Nomination of an approved person to be responsible for good site practice,	IWMF Site/During Operation Period	IWMF Operator		· · · · · · · · · · · · · · · · · · ·		
	<ul> <li>arrangements for collection and effective disposal to an appropriate facility of all wastes generated at the site;</li> <li>Use of a waste haulier licensed to collect specific category of waste;</li> <li>A trip-ticket system should be included as one of the contractual requirements and implemented by the Environmental Team to monitor the disposal of solid wastes at landfills, and to control fly tipping. Reference should be made to ETWB TCW No. 31/2004.</li> </ul>						

				Imple	menta	ation S	tages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	<ul> <li>Training of site personnel in proper waste management and chemical waste handling procedures;</li> <li>Separation of chemical wastes for special handling and appropriate treatment at a licensed facility;</li> <li>Routine cleaning and maintenance programme for drainage systems, sumps and oil interceptors;</li> <li>Provision of sufficient waste disposal points and regular collection for disposal;</li> <li>Adoption of appropriate measures to minimize windblown litter and dust during transportation of waste, such as covering trucks or transporting wastes in enclosed containers; and</li> <li>Implementation of a recording system for the amount of wastes generated, and disposal sites).</li> </ul>								
6b.5.2.2	<ul> <li>Waste Reduction Measures</li> <li>Good management and control can prevent the generation of significant amounts of waste. It is recommended that the following good operational practices should be adopted to ensure waste reduction:</li> <li>Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal;</li> </ul>	IWMF Site/ During Operation Period	IWMF Operator			V			Implemented

				Imple	ementa	ation Sta	ages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	Implementation Status and Remarks
	<ul> <li>Encourage collection of aluminum cans, plastic bottles and packaging material (e.g. carton boxes) and office paper by individual collectors. Separate labelled bins should be provided to help segregate this waste from other general refuse generated by the work force; and</li> <li>Any unused chemicals or those with remaining functional capacity should be reused as far as practicable.</li> </ul>								
6b.5.2.3	Storage, Handling, Treatment, Collection and Disposal of Incineration By-Products The following measures are recommended for the storage, handling and collection of the incineration by- products:	IWMF Site/ During Operation Period	IWMF Operator			v		Incineration Residue Pollution Control Limits	N/A
	<ul> <li>Ash should be stored in storage silos;</li> <li>Ash should be handled and conveyed in closed systems fully segregated from the ambient environment;</li> </ul>								
	<ul> <li>Ash should be wetted with water to control fugitive dust, where necessary;</li> </ul>								
	<ul> <li>All fly ash and APC residues should be treated, e.g. by cement solidification or chemical stabilization, for compliance with the proposed Incineration Residue Pollution Control Limits and leachability criteria prior to disposal;</li> </ul>								

				Impl	ementa	ation S	stages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	Ο	Dec	Legislation and Guidelines	Implementation Status and Remarks
	The ash should be transported in covered trucks or containers to the designated landfill site.								
	The Contractor should provide EPD with chemical analysis results of the bottom ash, and treated fly ash and APC residues to confirm that the ash/residue can comply with the proposed Incineration Residue Pollution Control Limits before disposal.								
6b.6.3.1	<ul> <li>Fuel Oil Tank Construction and Test</li> <li>The fuel tank to be installed should be of specified durability.</li> <li>Double skin tanks are preferred.</li> <li>Underground fuel storage tank should be placed within a concrete pit.</li> <li>The concrete pit shall be accessible to allow regular tank integrity tests to be carried out at regular intervals.</li> <li>Tank integrity tests should be conducted by an independent qualified surveyor or structural engineer.</li> <li>Any potential problems identified in the test should be rectified as soon as possible.</li> </ul>	Fuel Oil Storage Tank/ During Design, Construction and Operation Periods	IWMF Contractor		✓	<b>~</b>			N/A

				Imple	ementa	ation S	tages*		
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
6b.6.3.1	<ul> <li>Fuel Oil Pipeline Construction and Test</li> <li>Installation of aboveground fuel oil pipelines is preferable; if underground pipelines are unavoidable, concrete lined trenches should be constructed to contain the pipelines.</li> <li>Double skin pipelines are preferred.</li> <li>Distance between the fuel oil refuelling points and the fuel oil storage tank shall be minimized.</li> <li>Integrity tests for the pipelines should be conducted by an independent qualified surveyor or structural engineer at regular intervals.</li> <li>Any potential problems identified in the test should be rectified as soon as possible.</li> </ul>	Fuel Oil Pipelines/ During Design, Construction and Operation Periods	IWMF Contractor		~	×			N/A
6b.6.3.1	<ul> <li>Fuel Oil Leakage Detection</li> <li>Installation of leak detection device at storage tank and pipelines.</li> <li>Installation and use of pressure gauges (e.g. at the two ends of a filling line) in fuel filling, which allows unexpected pressure drop or difference and sign of leakage to be detected.</li> </ul>	Fuel Oil Storage Tank and Pipelines/ During Design, Construction and Operation Periods	IWMF Contractor	~	~	✓			N/A
6b.6.3.1	Fuel Oil Storage Tank Refuelling	Fuel Oil Refuelling Point/	IWMF Operator			~			N/A

	En inner de Derterti			Impl	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	• Storage tank refuelling (from road tanker) should only be conducted by authorized staff of the oil company using the company's standard procedures.	During Operation Period							
6b.6.3.1	Fuel Oil Spillage Response An Oil Spill Response Plan should be prepared by the operator to document the appropriate response procedures for oil spillage incidents in detail. General procedures to be taken in case of fuel oil spillage are presented below.	IWMF Site/ During Operation Period	IWMF Operator			✓			N/A
	Training								
	<ul> <li>Training on oil spill response actions should be given to relevant staff. The training shall cover the followings:</li> </ul>								
	<ul> <li>Tools &amp; resources to combat oil spillage and fire, e.g. locations of oil spill handling equipment and fire fighting equipment;</li> <li>General methods to deal with oil spillage and fire incidents;</li> <li>Procedures for emergency drills in the event of oil spills and fire; and</li> <li>Regular drills shall be carried out.</li> </ul>								
	Communication								
	-Establish communication channel with the Fire Services Department (FSD) and EPD to report any oil spillage incident								

				Imple	ementa	ation S	tages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	so that necessary assistance from relevant department can be quickly sought.								
	Response Procedures								
	-Any fuel oil spillage within the IWMF site should be immediately reported to the Plant Manager with necessary details including location, source, possible cause and extent of the spillage.								
	<ul> <li>Plant Manager should immediately attend to the spillage and initiate any appropriate action to confine and clean up the spillage. The response procedures shall include the following:</li> <li>Identify and isolate the source of spillage as soon as possible.</li> <li>Contain the oil spillage and avoid infiltration into soil/ groundwater and discharge to storm water channels.</li> <li>Remove the oil spillage.</li> </ul>								
	➤Clean up the contaminated area.								
	<ul> <li>If the oil spillage occurs during storage tank refuelling, the refueling operation should immediately be stopped.</li> <li>Recovered contaminated fuel oil</li> </ul>								
	and the associated material to remove the spilled oil should be considered as chemical waste. The handling and disposal								

				Impl	ementa	ation S	Stages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	procedures for chemical wastes are discussed in the following paragraphs.								
6b.6.3.2	<ul> <li><u>Chemicals and Chemical Wastes Handling &amp; Storage</u></li> <li>Chemicals and chemical wastes should only be stored in suitable containers in purpose-built areas.</li> <li>The storage of chemical wastes should comply with the requirements of the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.</li> <li>The storage areas for chemicals and chemical wastes shall have an impermeable floor or surface. The impermeable floor/ surface shall possess the following properties:         <ul> <li>Not liable to chemically react with the materials and their containers to be stored.</li> <li>Able to withstand normal loading and physical damage caused by container handling</li> <li>The integrity and condition of the impermeable floor or surface at regular intervals to ensure that it is satisfactorily maintained</li> </ul> </li> </ul>	Chemicals and Chemical Wastes Storage Area / During Operation Period	IWMF Operator						N/A
	For liquid chemicals and chemical wastes storage, the								

				Imple	ementa	tion S	tages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation Imp and Guidelines	ementation Status and Remarks
	storage area should be bunded to contain at least 110% of the storage capacity of the largest containers or 20% of the total quantity of the chemicals/chemical wastes stored, whichever is the greater.								
	Storage containers shall be checked at regular intervals for their structural integrity and to ensure that the caps or fill points are tightly closed.								
	<ul> <li>Chemical handling shall be conducted by trained workers under supervision.</li> </ul>								
6b.6.3.2	Chemicals and Chemical Wastes Spillage ResponseA Chemicals and/ or Chemical Wastes Spillage Response Plan shall be prepared by the operator to document in detail the appropriate response procedures for chemicals or chemical wastes spillage incidents. General procedures to be undertaken in case of chemicals/ chemical waste spillages are presented below.• Training	IWMF Site/ During Operation Period	IWMF Operator			✓		N/A	
	<ul> <li>Training on spill response actions should be given to relevant staff. The training shall cover the followings:</li> </ul>								

				Impl	ementa	ation Stag	es*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	O D	ec	Legislation and Guidelines	Implementation Status and Remarks
	Tools & resources to handle spillage, e.g. locations of spill handling equipment;								
	General methods to deal with spillage; and								
	Procedures for emergency drills in the event of spills.								
	Communication								
	<ul> <li>Establish communication channel with FSD and EPD to report the spillage incident so that necessary assistance from relevant department can be quickly sought.</li> </ul>								
	Response Procedures								
	<ul> <li>Any spillage within the IWMF site should be reported to the Plant Manager.</li> </ul>								
	<ul> <li>Plant Manager shall attend to the spillage and initiate any appropriate actions needed to confine and clean up the spillage. The response procedures shall include the followings:</li> </ul>								
	Identify and isolate the source of spillage as soon as possible;								
	Contain the spillage and avoid infiltration into soil/								

				Imple	menta	ation S	tages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	groundwater and discharge to storm water channels (in case the spillage occurs at locations out of the designated storage areas);								
	Remove the spillage; the removal method/ procedures documented in the Material Safety Data Sheet (MSDS) of the chemicals spilled should be observed;								
	<ul> <li>Clean up the contaminated area (in case the spillage occurs at locations out of the designated storage areas); and</li> </ul>								
	The waste arising from the cleanup operation should be considered as chemical wastes.								
6b.6.3.3	<ul> <li>Preventive Measures for Incineration By- products Handling</li> <li>The recommended measures listed below can minimize the potential contamination to the surrounding environment due to the incineration by-products: <ul> <li>Ash should be stored in storage silos;</li> <li>Ash should be handled and conveyed in closed systems fully segregated</li> </ul> </li> </ul>	Storage, Handling & Collection of Incineration Ash at IWMF/ During Operation Period	IWMF Operator			V		1	J/A

				Imple	menta	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	from the ambient environment;								
	<ul> <li>Ash should be wetted with water to control fugitive dust, where necessary;</li> </ul>								
	<ul> <li>All fly ash and APC residues should be treated, e.g. by cement solidification or chemical stabilization, for compliance with the proposed Incineration Residue Pollution Control Limits and leachability criteria prior to disposal;</li> </ul>								
	• The ash should be transported in covered trucks or containers to the designated landfill site.								
6b.6.3.4 -6b.6.3.6	Incident Record After any spillage, an incident report should be prepared by the Plant Manager. The incident report should contain details of the incident including the cause of the incident, the material spilled and estimated spillage amount, and also the response actions undertaken. The incident record should be kept carefully and able to be retrieved when necessary. The incident report should provide sufficient details for the evaluation of any environmental impacts due to the spillage and assessment of the effectiveness of measures taken.	IWMF Site/ During Operation Period	IWMF Operator			✓		Guidance Manual for Use of Risk-based Remediation Goals for Contaminated Land Management and the Guidance Note for Contaminated Land and Remediation.	N/A

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				Imple	ementa	ation S	stages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	In case any spillage or accidents results in significant land contamination, EPD should be informed immediately and the IWMF operator should be responsible for the cleanup of the affected area. The responses procedures described in <b>Section 6b.6.3.1</b> and <b>Section 6b.6.3.2</b> of EIA report should be followed accordingly together with the land contamination assessment and remediation guidelines stipulated in the <i>Guidance Manual for Use</i> of <i>Risk-based Remediation Goals for</i> <i>Contaminated Land Management and the</i> <i>Guidance Note for Contaminated Land and</i> <i>Remediation.</i>								

* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

	Environmental Protection			Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
7b.8.2.1	<ul> <li>Measures to avoid direct loss of intertidal habitat</li> <li>The site boundary has been proposed to avoid direct contact with the intertidal natural rocky shore of Shek Kwu Chau. It avoids direct loss of intertidal communities and the existing natural rocky shore habitat, where Reef Egret and White-bellied Sea Eagle have been recorded within and in the vicinity of this habitat.</li> </ul>	IWMF site	Design team					EIAO-TM	N/A
7b.8.2.2	<ul> <li>Measures to minimise loss of coastal subtidal habitat</li> <li>Extensive coral colonies were recorded at the coastal hard bottom habitat at Shek Kwu Chau. To avoid and minimise the extensive direct impact on the coral colonies, the proposed reclamation area has been moved further offshore to minimise loss of subtial habitat near shore.</li> </ul>	IWMF site	Design team	×				EIAO-TM	N/A
7b.8.2.3	<ul> <li>Zero Discharge Scheme</li> <li>The design scheme of the Project has avoided discharge of wastewater into the marine environment. A zero discharge scheme would be adopted during the operation of the Project. An on-site wastewater treatment plant would be</li> </ul>	IWMF site	Design team, IWMF operator	×		~		WPCO	N/A

#### Table B.5 Implementation Schedule for Ecological Quality Measures for the IWMF at the artificial island near SKC

Integrated Waste Management Facilities, Phase 1

	Environmental Protection				Impl	ementa	ation S	tages*	Relevant	
EIA Ref	Measures / Mitigation Measures	Location / Implementation Timing Agent			Des	C O [		Dec	Legislation and Guidelines	Implementation Status and Remarks
	provided to treat the wastewater generated from the IWMF (mainly human sewage). The treated effluent would be re-used in the incineration plant and mechanical treatment plant, or for onsite washdown and landscape.									
7b.8.2.4	<ul> <li>Measures to avoid loss of plant species of conservation importance</li> <li>Landing portal construction works would not cause direct lost to the recorded individual of protected plant species,</li> <li>Aquilaria sinensis, at the coastal shrubland habitat at Cheung Sha. As a precautionary measure, the plant should be tagged with eye- catching tape and fenced off prior to works, in order to avoid any damage by workers.</li> </ul>	Cheung Sha Ianding portal	Design Contractor	team,	✓	~		✓	EIAO-TM	N/A
7b.8.3.1 - 7b.8.3.1 5	<ul> <li>Measures to minimise water quality impact</li> <li>Measures for water quality as recommended in Section 5b of the EIA Report should be implemented.</li> </ul>	Work site	Design contractor, operator	team, IWMF	~	~	~	~	EIAO-TM; ProPECC PN 1/94; WPCO	Implemented
7b.8.3.1 6 - 7b.8.3.3 0	Measures to minimise disturbance on Finless Porpoise Minimisation of Habitat Loss for Finless Porpoise	IWMF site, work site, marine traffic route	Design contractor, operator	team, IWMF	✓	~	<b>√</b>	•	EIAO-TM, Supporting Document for Application for Variation of the Environmental	Implemented for avoidance of construction works that may produce underwater acoustic disturbance, Vessel Travel Route implementation, training of staff; N/A for other

Integrated Waste Management Facilities, Phase 1

	Environmental Protection			Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	
	<ul> <li>Measures</li> <li>Substantial revision has been made on the layout plan and form of the breakwater, in order to minimise the potential loss of important habitat for Finless Porpoise. The revision has greatly reduced the size of the embayment area, as well as the Project footprint. As a result, the size of habitat loss for Finless Porpoise has reduced from the original ~50 ha, down to ~31 ha.</li> <li>Avoidance of peak season for finless porpoise occurrence</li> <li>To minimise potential acoustic disturbance from construction activities on Finless Porpoise, construction works that may produce underwater acoustic disturbance should be scheduled outside the months with peak Finless Porpoise occurrence</li> </ul>	I Iming	Agent						
	<ul> <li>(December to May), including:</li> <li>sheet piling works for construction of cofferdam surrounding the reclamation area (Phase 1);</li> <li>sheet piling works for construction of the shorter</li> </ul>								

Integrated Waste Management Facilities, Phase 1

	Environmental Protection			Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	<ul> <li>sheet piling works for construction of the remaining section of breakwater (Phase 3) and</li> <li>bored piling works for berth area (Phase 3)</li> </ul>								
	Such works should be restricted within June to November. This approach would not only avoid the peak season for Finless Porpoise occurrence, the magnitude of impacts arise from acoustic disturbance would also be minimised.								
	• Since the DCM ground treatment and the installation of precast seawalls and breakwaters should generate no underwater acoustic disturbance to Finless Porpoise, no specific mitigation measures are required.								
	Opt for quieter construction methods and plants								
	<ul> <li>Considering the sensitivity of marine mammals to underwater acoustic disturbance, instead of the previously proposed conventional breakwater and reclamation peripheral structure,</li> </ul>								
	which requires noisy piling works, the current circular cells structure for								

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	Environmental Protection			Imple	emen	tation S	stages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	
	breakwater and reclamation peripheral structure is proposed. A quieter sheet piling method using vibratory hammer or hydraulic impact hammer, should be adopted for the installation of circular cells for cellular cofferdam and								
	northern breakwater during Phase 1, and southern breakwater Phase 3;								
	Non-percussive bore piling method								
	would be adopted for the installation of tubular piles for the berth construction during Phase 3.								
	Monitored exclusion zones								
	During the installation/re-								
	installation/relocation process of								
	floating type silt curtains, in order to								
	avoid the accidental entrance and entrapment of marine mammals within								
	the silt curtains, a monitored exclusion								
	zone of 250 m radius from silt curtain								
	should be implemented. The								
	exclusion zone should be closely								
	monitored by an experienced marine								
	mammal observer at least 30 minutes before the start of installation/re-								
	installation/relocation process. If a								
	marine mammal is noted within the								
	exclusion zone, all marine works								
	should stop immediately and remain								
	idle for 30 minutes, or until the								

Integrated Waste Management Facilities, Phase 1

	Environmental Protection			Imple	ementa	ation S	tages*	Relevant	
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	exclusion zone is free from marine mammals.								
	• The experienced marine mammal observer should be well trained to detect marine mammals. Binoculars should be used to search the exclusion zone from an elevated platform with unobstructed visibility. The observer should also be independent from the project proponent and has the power to call-off construction activities.								
	<ul> <li>In addition, as marine mammals cannot be effectively monitored within the proposed monitored exclusion zone at night, or during adverse weather conditions (i.e. Beaufort 5 or above, visibility of 300 meters or below), marine works should be avoided under weather conditions with low visibility.</li> </ul>								
	Marine mammal watching plan								
	Upon the completion of the installation/re- installation/relocation of floating type silt curtain, all marine works would be conducted within a fully enclosed environment within the silt curtain, hence exclusion zone monitoring would no longer								

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	Environmental Protection		Stages*	Relevant					
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	be required. Subsequently, a marine mammal watching plan should be implemented.								
	The plan should include regular inspection of silt curtains, and visual inspection of the waters surrounded by the curtains. Special attention should be paid to Phase 2 (reclamation) where the floating type still curtain would be opened occasionally for vessel access, leaving a temporary 50 m opening. An action plan should be devised to cope with any unpredicted incidents such as the case when marine mammals are found within the waters surrounded by the silt curtains.								
	Small openings at silt curtains								
	• The openings for vessel access at the silt curtains should be as small as possible to minimise the risk of accidental entrance.								
	Adoption of regular travel route								
	• During construction and operation, captains of all vessels should adopt regular travel route, in order to minimize the chance of vessel collision with								

Integrated Waste Management Facilities, Phase 1

	Environmental Protection			Imple	ement	ation S	Stages*	Relevant	
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	Implementation Status and Remarks
	marine mammals, which may otherwise result in damage to health or mortality. The regular travel route should avoid areas with high sighting density of Finless Porpoise as much as possible.								
	Vessel speed limit								
	<ul> <li>The frequent vessel traffic in the vicinity of works area may increase the chance of mammal mammals being killed or seriously injured by vessel collision. A speed limit of ten knots should be strictly enforced within areas with high density of Finless Porpoise.</li> <li>Passive acoustic monitoring and land-based theodolite monitoring surveys should be adopted to verify the predicted impacts and effectiveness of the proposed mitigation measures.</li> </ul>								
	Training of Staff								
	• Staff, including captains of vessels, should be aware of the guidelines for safe vessel operations in the presence of cetaceans during construction and operation phases. Adequate trainings should be provided								

Integrated Waste Management Facilities, Phase 1

	Environmental Protection				Impl	olementation Stages*			Relevant	
EIA Ref	Measures / Mitigation Measures	Location / Implementation Timing Agent			Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
7b.8.3.3 1 - 7b.8.3.3 4	Measures to minimise impact on corals Coral translocation	IWMF site	Design contractor, operator	team, IWMF	~	<b>√</b>	~	~	EIAO-TM	Implemented, tagged coral found missing after hitting by typhoons
	<ul> <li>Coral communities within and in proximity to the proposed dredging sites would be disturbed by the Project due to the dredging operations. In order to minimise direct loss of coral communities, translocation of corals that are attached to movable rocks with diameter less than 50 cm are recommended. In order to avoid disturbance to corals during the spawning period, the spawning season of corals (June to August) should be avoided; and that translocation should be carried out during the winter season (November- March).</li> </ul>									Re-tagging of 10 coral colonies at indirect impact site and control site were conducted in November and December 2018 respectively.
	• The REA survey results suggest that the 198 directly affected coral colonies were attached to movable rocks (less than 50 cm in diameter). It is technically feasible to translocate them to avoid direct loss.									
	<ul> <li>Prior to coral translocation, a more detailed baseline survey, including a coral mapping survey, is recommended to further confirm the</li> </ul>									

Integrated Waste Management Facilities, Phase 1

	Environmental Protection			Imple	menta	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	exact number and location of coral colonies within the potentially affected area. A more detailed coral translocation plan, including selection of suitable recipient site, plan for coral translocation, and event / action plan for coral monitoring should be submitted upon approval of this Project, prior to commencement of construction works. Advice from relevant governmental departments (i.e. AFCD) and professionals would be sought after, in order to identify a desirable location for the relocation of coral communities. Post-translocation monitoring on the translocated corals should also be considered.								
	Coral monitoring programme								
	<ul> <li>A coral monitoring programme is recommended to assess any adverse and unacceptable impacts to the coral communities at the coasts of Shek Kwu Chau during construction of the Project.</li> </ul>								
	Phasing of Works								
	<ul> <li>To minimize environmental impacts, the proposed phasing of construction works has been carefully designed to</li> </ul>								

Integrated Waste Management Facilities, Phase 1

	Environmental Protection			Impl	ementa	ation S	tages*	Relevant	
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	Implementation Status and Remarks
	reduce the amount of concurrent works, hence minimize SS elevation and the associated impacts on corals.								
7b.8.3.3 5 - 7b.8.3.4 1	<ul> <li><u>Specific measures to minimize</u> <u>disturbance on breeding White-bellied</u> <u>Sea Eagle</u></li> <li>Avoidance of noisy works during the breeding season of White-bellied Sea Eagle</li> <li>To minimize potential noise disturbance from construction activities on WBSE, noisy construction works should be scheduled outside their breeding season (December to May) to minimise potential degradation in breeding ground quality and breeding activities, including:</li> <li>sheet piling works for construction of cofferdam surrounding the reclamation area (Phase 1);</li> <li>sheet piling works for construction of the shorter section of breakwater (Phase 1);</li> <li>sheet piling works for construction of the remaining section of breakwater (Phase 3); and</li> <li>bored piling works for berth area (Phase 3).</li> </ul>		Design Team, Contractor, IWMF operator					EIAO-TM	Implemented

Integrated Waste Management Facilities, Phase 1

	Environmental Protection		Implementation Agent	Impl	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing		Des	С	0	Dec	Legislation and Guidelines	
	Opt for quieter construction methods and plants								
	<ul> <li>To minimise potential construction noise disturbance on WBSE, quieter construction methods and plants should be adopted. The recommended noise mitigation measures in the Noise chapter (Section 4b.8 of the EIA Report) should be implemented to minimise potential noise disturbance to acceptable levels.</li> </ul>								
	Restriction on vessel access near the nest of White-bellied Sea Eagle								
	• During construction and operation, in order to minimize disturbance on the existing WBSE nest, a pre-defined practical route to restrict vessel access near the nest should be adopted to keep vessels and boats as far away from the nest as possible.								
	White-bellied Sea Eagle monitoring programme								
	<ul> <li>A WBSE monitoring programme is recommended to assess any adverse and unacceptable impacts to the breeding activities of WBSE during construction and operation of the</li> </ul>								

Integrated Waste Management Facilities, Phase 1

	Environmental Protection			Imple	ementa	ation S	Stages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	<ul> <li>Project. Monitoring surveys for WBSE would include pre-construction phase (twice per month for duration of three months during their breeding season -between December and May, immediately before the commencement of works), construction phase, and operation phase (two years after the completion of construction works).</li> <li>Surveys should be conducted twice per month during their breeding season (from December to May); and once per month outside breeding season (June to November). More details on monitoring for WBSE are presented in the EM&amp;A Manual.</li> </ul>								
	Education of staff								
	• Staff, including captains of all vessels during construction and operation phases, should be aware of the ecological importance of WBSE. Awareness should be raised among staff to minimise any intentional or unintentional disturbance to the nest.								
	Minimisation of Glare Disturbance								

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	Environmental Protection			Impl	ementa	tion Stages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	O Dec	Legislation and Guidelines	
	<ul> <li>To minimise glare disturbance on WBSE, which may cause disorientation of birds by interfering with their magnetic compass, and disruption in behavioural patterns such as reproduction, fat storage and foraging pattern, any un-necessary outdoor lighting should be avoided, and in-ward and down-ward pointing of lights should be adopted.</li> </ul>							
-	<ul> <li><u>Construction of Seawall/Breakwaters</u></li> <li>To widen the open channel between the Artificial Island and Shek Kwu Chau.</li> <li>To design the precast concrete seawall with environmental friendly features.</li> </ul>	IWMF site	Design team, contractor, IWMF operator	V	~		Supporting Document for Application for Variation of Environmental Permit (EP- 429/2012)	N/A
7b.8.3.42	<ul> <li>Opt for Quieter Construction Methods and Plants</li> <li>Quieter construction methods and plants should be used to minimise disturbance to the nearby terrestrial habitat and the associated wildlife.</li> </ul>	Work site	Design team, contractor, IWMF operator	<b>√</b>	~	✓ ✓	EIAO-TM	Implemented
7b.8.3.43	<ul> <li>Measures to minimize impacts from artificial lighting</li> <li>Unnecessary lighting should be avoided, and shielding of lights should be provided to minimize disturbance from light pollution on fauna groups.</li> </ul>	IWMF site	Design team, contractor, IWMF operator	V	~	✓ 	EIAO-TM	Implemented

Integrated Waste Management Facilities, Phase 1

	Environmental Protection	Location / Timing	Implementation Agent	Imple	ement	ation S	tages*	Relevant	Implementation Status and Remarks	
EIA Ref	Measures / Mitigation Measures			Des	С	0	Dec	Legislation and Guidelines		
7b.8.3.4 4 - 7b.8.3.4 5	<ul> <li>Measures to minimize accidental spillage</li> <li>Regular maintenance of vessels, vehicles and equipment that may cause leakage and spillage should only be undertaken within predesignated areas, which are appropriately equipped to control the associated discharges.</li> <li>Oils, fuels and chemicals should be contained in suitable containers, and only be used and stored in designated areas which have pollution prevention facilities. All fuel tanks and storage areas should be sited on sealed areas in order to prevent spillage of fuels and solvents to the nearby watercourses. All waste oils and fuels should be collected in designated tanks prior to disposal.</li> </ul>	Work site	Contractor, IWMF operator		✓			EIAO-TM	Deficiency of Mitigation Measures but rectified by the Contractor.	
7b.8.3.46	<ul> <li>Measures to minimise sewage effluent</li> <li>Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce.</li> </ul>	Work site	Contractor		~			EIAO-TM	N/A	
7b.8.3.47	Measures to minimise drainage and construction runoff	Work site	Contractor		✓		✓	EIAO-TM	N/A	

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	Environmental Protection		Implementation Agent	Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing		Des	С	0	Dec	Legislation and Guidelines	
	Potential ecological impacts resulted								
	from potential degradation of water								
	quality due to unmitigated surface								
	runoff could be minimised via the								
	detailed mitigation measures in Section								
	5b.8 of the EIA Report. The following								
	presents some of the mitigation								
	measures:								
	- On-site drainage system								
	with implemented								
	sedimentation control facilities.								
	<ul> <li>Channels, earth bunds or sand bag barriers abauld be provided on site</li> </ul>								
	barriers should be provided on site to direct storm water to silt removal								
	facilities.								
	- Provision of embankment at								
	boundaries of								
	earthworks for flood protection.								
	- Water pumped out from								
	foundation piles must be								
	discharged into silt removal								
	facilities.								
	- During rainstorms, exposed								
	slope/soil surfaces should be								
	covered by tarpaulin or other								
	means, as far as practicable.								
	<ul> <li>Exposed soil surface should be</li> </ul>								
	minimized to reduce siltation and								
	runoff.								
	- Earthwork final surfaces should be								
	well compacted. Subsequent								
	permanent surface protection								
	should be immediately performed.								

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	Environmental Protection			Impl	ementa	tion S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	- Open stockpiles of construction materials, and construction wastes on- site should be covered with tarpaulin or similar fabric during rainstorms.								
7b.8.3.48	<ul> <li>Measures to minimise impacts from general construction activities</li> <li>To avoid the entering of construction solid waste into the nearby habitats, construction solid waste should be collected, handled and disposed of properly to avoid entering to the nearby habitats. It is recommended to clean the construction sites on a</li> </ul>	Work site	Contractor		V			EIAO-TM	Implemented
7b.8.3.49	regular basis. <u>Pest Control</u> Good waste management practices should be adopted at the IWMF in order to minimise the risk of introduction of pest to the island: - Transportation of wastes in enclosed containers - Waste storage area should be well maintained and cleaned - Waste should only be disposed of at designated areas - Timely removal of the newly arrived waste - Removal of items that are capable of retaining water	IWMF site	IWMF operator			•			N/A

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	Environmental Protection			Imple	ementa	ation St	ages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	<ul> <li>Rapid clean up of any waste spillages</li> <li>Maintenance of a tidy and clean site environment</li> <li>Regular application of pest control</li> <li>Education of staff the importance of site cleanliness</li> </ul>								
7b.8.3.50		IWMF site	IWMF operator			~		EIAO-TM; WPCC	N/A
	<ul> <li>Depending on the seabed condition of the approach channel for marine vessels during operation phase of the IWMF, maintenance dredging may be required to ensure safe access. In order to avoid degradation in water quality due to elevation in SS and dispersion of sediment plume due to dredging works, it is recommended that any future maintenance dredging works should not be carried out within 100 m from the shore, similar to that of the dredging for anti-scouring protection layer during construction phase. All maintenance dredging works should be carried out with the implementation of silt curtain to control the dispersion of SS. The production rate should comply with the permit dredging rate and number of grab per hour.</li> </ul>								

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	Environmental Protection			Impl	ementa	ation S	tages*	Relevant	
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
7b.8.4. 1 – 7b.8.4. 8	<ul> <li>Measures</li> <li><u>Compensation of loss of important habitat of Finless Porpoise</u></li> <li><i>Designation of Marine Park</i></li> <li>The Project Proponent has made a firm commitment to seek to designate a marine park of approximately 700 ha in the waters between Soko Islands and Shek Kwu Chau, in accordance with the statutory process stipulated in the Marine Parks Ordinance, as a compensation measure for the habitat loss arising from the construction of the IWMF at the artificial island near SKC.</li> <li>The Project Proponent shall seek to complete the designation by 2018 to tie in with the operation of the IWMF at the artificial island near SKC.</li> <li>A further study should be carried out to review relevant previous studies and collate available information on the ecological characters of the proposed area for marine park designation; and review available survey data for Finless Porpoise, water quality, fisheries, marine traffic and planned development projects in the vicinity.</li> </ul>	between Shek Kwu Chau and Soko Islands	Project Proponent					Guidelines EIAO-TM	N/A

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	Environmental Protection	Location / Timing		Impl	ementa	ation Stages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures		Implementation Agent	Des	С	O Dec	Legislation and Guidelines	
	marine park designation should be established, and the extent and location of the proposed marine park be determined. The adequacy of enhancement measures should also be reviewed.							
	<ul> <li>In addition, a management plan for the proposed marine park should be proposed, covering information on the responsible departments for operation and management (O&amp;M) of the marine park, as well as the O&amp;M duties of each of the departments involved. Consultation with relevant government departments and stakeholders should be conducted under the study. The study should be submitted to Director of Environmental Protection (DEP) for approval before the commencement of construction works.</li> </ul>							
	• The Project Proponent should provide assistance to AFCD during the process of the marine park designation.							
7b.8.5. 1 – 7b.8.5. 4	Additional Enhancement or <u>Precautionary Measures</u> <i>Deployment of Artificial Reefs</i> • Deployment of artificial reefs (ARs) is an enhancement measure for the	Within the proposed marine park under this study	Project Proponent	~		×	EIAO-TM	N/A

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Keppel Seghers – Zhen Hua Joint Venture

	Environmental Protection			Imple	ementa	ation §	Stages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	<ul> <li>marine habitats. ARs are proposed to be deployed within the proposed marine park under this Project. The exact location, dimension and type of ARs to be deployed are to be further investigated along with the further study of the proposed marine park under this Project. The proposed ARs would be deployed at the same time as the complete designation of marine park.</li> <li>Release of Fish Fry at Artificial Reefs and Marine Park</li> </ul>								
	<ul> <li>Release of fish fry at the proposed ARs, as well as the proposed marine park under this study, should enhance the fish resources in the nearby waters, and subsequently food sources for Finless Porpoise. The proposed ARs with various micro-habitats would have the potential to provide shelter and nursery ground for the released fish fry. The frequency and quantity of fry to be released should be agreed by AFCD.</li> </ul>								

* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

			Looption /			ementa	tion S	stages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent		Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
8b.8.1.2	Measure to minimize loss of and disturbance on fisheries resources	IWMF site	Design tea contractor	am,	~	•		✓	EIAO-TM	N/A
	<ul> <li>Alteration to the phasing of works, construction method, and layout plan of the IWMF at the artificial island near SKC has been made. The total fishing ground to be permanently lost due to the project has been significantly reduced from ~50 ha to ~31 ha. By adopting the current circular cells instead of the conventional seawall construction method, SS elevation would be greatly reduced, minimizing adverse impact on the health of fisheries resources.</li> </ul>									
8b.8.1.3	Measure to minimize impingement and entrainment	IWMF site		am, VMF	✓	~	✓		EIAO-TM	N/A
	<ul> <li>Provision of a screen at the water intake point for desalination plant would be essential to minimize the risk of impingement and entrainment of fisheries resources (including fish, larvae and egg) through the intake point.</li> </ul>									

#### Table B.6 Implementation Schedule for Fisheries Measures for the IWMF at the artificial island near SKC

#### Keppel Seghers – Zhen Hua Joint Venture

			_			Imple	ementa	ation S	Stages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures		ation / ning	Implemei Age		Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
8b.8.1.4- 8b.8.1.6	<ul> <li>Measures to control water quality</li> <li>No wastewater effluent, anti-fouling agent, heavy metals and other contaminants would be released during operation phase of the Project.</li> <li>Mitigation measures recommended in the water quality impact assessment during construction and operation would serve to protect fisheries resources from indirect impacts resulted from the Project</li> </ul>	Work	site, IWMF	Design contractor, operator	team, IWMF			✓		EIAO-TM	Implemented
8b.8.1.7 - 8b.8.1.8	<ul> <li>Additional Enhancement / Precautionary Measures</li> <li>Artificial Reefs (ARs) are proposed to be deployed within the proposed marine park under this Project as an enhancement measure for the marine habitats. This enhancement feature would bring positive impacts to the previously identified important spawning and nursery ground for fisheries resources.</li> <li>Release of Fish Fry at Artificial Reefs</li> <li>Release of fish fry has been proposed under this Project. The proposed deployment of ARs within the proposed marine park would provide shelter and nursery ground for the released fish fry. The frequency and quantity of fry to be released should be agreed by AFCD.</li> </ul>	betwee Islands Shek Chau	ed park e waters en Soko	Project Pro	ponent					EIAO-TM	N/A

* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

	Environmental Protection Measures / Mitigation Measures			Imple	ementa	ation S	Stages*	Relevant Legislation and Guidelines	Implementation Status and Remarks
EIA Ref		Location / Timing	Implementation Agent	Des	С	0	Dec		
S10b.10 MLVC- 01	Grass-hydroseeded bare soil surface and stock pile area	Work site / During construction phase	Contractor		~				N/A
S10b.10 MLVC-02	<ul> <li>Landscape Design <ol> <li>Early planting using fast grow trees and tall shrubs at strategic locations within site as buffer to block view corridors to the site from the VSRs, and to locally screen haul roads, excavation works and site preparation works.</li> <li>Use of tree species of dense tree crown to serve as visual barrier.</li> <li>Hard and soft landscape treatment (e.g. trees and shrubs) of open areas within development to provide a background for the outdoor containers from open view, shade and shelter, and a green appearance from surrounding viewpoints.</li> <li>Planting strip along the periphery of the project site.</li> </ol> </li> </ul>	Work site / During design & construction phases	Contractor	•	¥				N/A

#### Table B.7 Implementation Schedule for Landscape and Visual Measures for the IWMF at the artificial island near SKC

				Implemen	tation S	Stages*	Relevant Legislation and Guidelines	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des C	0	Dec		Status and Remarks
S10b.10 MLVC-03	<ul> <li><u>Adoption of Natural Features of the Existing</u></li> <li><u>Shoreline</u></li> <li>1) Use of boulders in different sizes and with the similar textures of the existing rocky shores for the construction of breakwater and artificial shoreline in order to blend into the existing natural shoreline.</li> </ul>	Work site / During construction phase	Contractor	✓				N/A
	2) Use of cellular cofferdam together with the natural boulders to form a curvature shoreline for the reclamation area to echo with the natural shoreline of SKC.							
S10b.10 MLVC-04	<ul> <li><u>Greening Design (Rooftop &amp; Vertical Greening)</u></li> <li>1) Implementation of rooftop and vertical greening (vertical building envelope) along the periphery of each building block to increase the amenity value of the work, moderate temperature extremes and enhance building energy performance. The greening appearance of the building shall enhance its visual harmony with the natural surroundings as well as reduce the apparent visual mass of the structure.</li> </ul>	Work site / During design & construction phases	Contractor	✓ ✓				N/A
	<ol> <li>Sufficient space between concrete enclosure and stack to minimize heat transfer.</li> </ol>							
	3) Introduction of landscape decks at the stack to further enhance the overall natural and green concept unique for this site.							

				Imple	menta	ation S	tages*	Relevant Legislation and Guidelines	Implementation Status and Remarks																				
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec																						
S10b.10 MVC-01	Visual Mitigation and Aesthetic Design	Structures	Contractor	~	$\checkmark$				N/A																				
MVC-01	<ol> <li>Use of natural materials with recessive color to minimize the bulkiness of the building.</li> </ol>	in IWMF / During design & constructio n phases																											
	<ol> <li>Adoption of innovative aesthetic design to the chimney to minimize or visually mitigate the massing of the chimney so as to reduce its visual impact to the surroundings.</li> </ol>		n phases	n phases	n phases																								
	<ol> <li>Color of the chimney in a gradual changing manner to match with the color of the sky.</li> </ol>																												
	<ol> <li>Provision of observation deck for public enjoyment at the top of the chimney to diminish the feeling of chimney.</li> </ol>																												
	<ul> <li>5) Provision of sky gardens between the two stacks to allow additional greening for enhancing the aesthetic quality. Maintenance access (elevator and staircase) from the ground floor to the sky gardens will be provided to allow maintenance of the sky gardens.</li> </ul>																												
	<ol> <li>Integration of the visitor's walkway with different material façade design of incinerator plant to enhance the aesthetic quality.</li> </ol>																												
S10b.10 MVC-02	Control of the security floodlight for construction areas at night to avoid excessive glare to the surrounding receiver.	Work site / During construction phase	Contractor		✓				Implemented																				

	Environmental Protection Measures / Mitigation Measures			Impler	nenta	ation S	Stages*	Relevant Legislation and Guidelines	Implementation Status and Remarks
EIA Ref		Location / Timing	Implementation Agent	Des	С	0	Dec		
S10b.10 MVC-03	Optimization of the construction sequence and construction programme to minimize the duration of impact.	Work site / During design & construction phases	Contractor	~	✓				Implemented
S10b.10 MVC-04	Storage of the backfilling materials for site formation & construction materials / wastes on site at a maximum height of 2m, covered with an impermeable material of visually un- obtrusive material (in earth tone).	Work site / During construction phase	Contractor		•				N/A
S10b.10 MVC-05	Reduction of the number of construction traffic at the site to practical minimum.	Work site / During construction phase	Contractor		✓				Implemented
S10b.10 MLVO-01	Planting Maintenance Provision of proper planting maintenance and replacement of defective plant species on the new planting areas to enhance aesthetic and landscape quality.	Project site / During Operation phase	Contractor			~			N/A
S10b.10 MVO-01	Environmental Education Centre Development of an Environmental Education Center, in which regular exhibitions and lectures to promote environmental awareness and waste reduction concept would be provided, as a part of the IWMF for the general public to alleviate negative public perceptions of the development.	Project site / During Operation phase	Contractor			•			N/A
S10b.10 MVO-02	<u>Control of Light</u> Control the numbers of lights and their intensity to a level that is good enough to meet the safety requirements at night but not excessive.	Project site / During Operation phase	Contractor			•			N/A

Keppel Seghers – Zhen Hua Joint Venture

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Imple Des	ementat C	ion S O	tages* Dec	Relevant Legislation and Guidelines	Implementation Status and Remarks
S10b.10 MVO-03	<u>Control of Operation Time</u> Minimization of the frequency of waste transportation to practical minimum (e.g. limit the reception of MSW from 8 am to 8 pm)	Project site / During Operation phase	Contractor			~			N/A

* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

# Appendix C Impact Monitoring Schedule of the Reporting Month

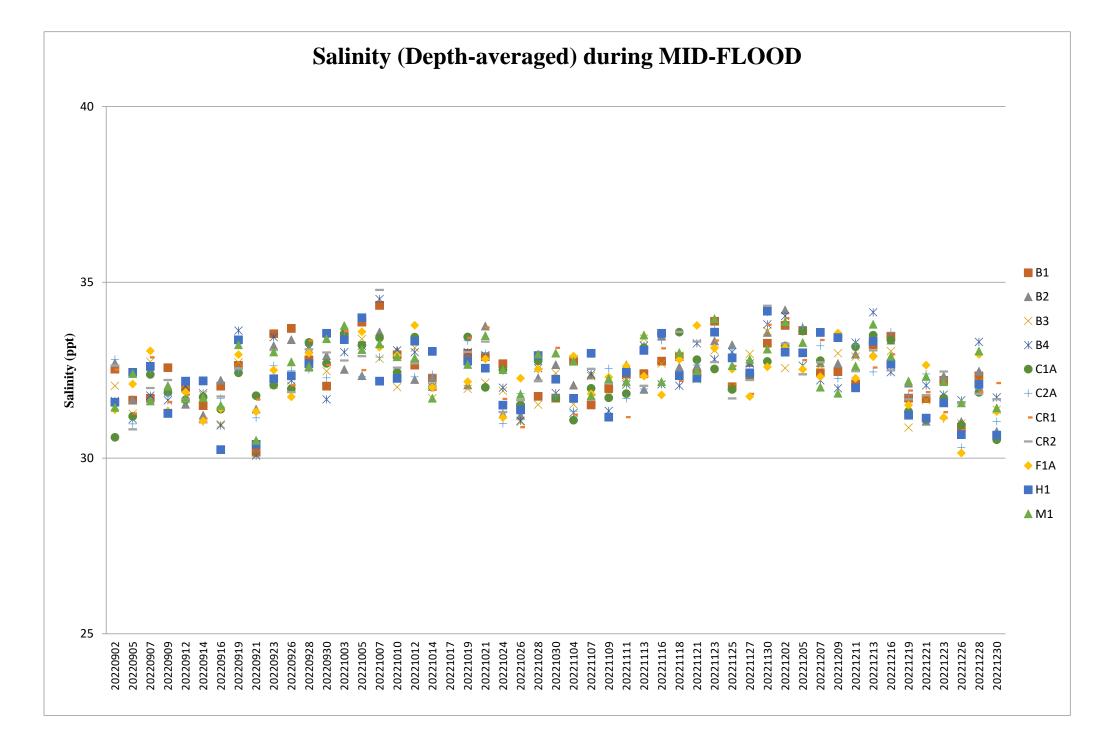
			Impact Monitoring Schedule for IWMF Dec-22		
	Men	Tue	Wed	Thu	Fri
			weu	1	2
					Water Quality monitoring for B1, B2
					Tid
					Ebb Tide
					Flood Tid
					Moni *Mid-eb
					Mid-floo
					Wild-100
	5 Impact	6 Impact	7 Impact	8 Impact	9
	Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1	Night time Noise monitoring for M1, M2 & M3	Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1	Ecology monitoring for Marine Mammals by Vessel-based Line-Transect Survey	
	Tidal Period: Ebb Tide: 08:00 - 13:00		Tidal Period: Ebb Tide: 10:00 - 13:53		Tid Ebb Tide
	Flood Tide: 13:00 - 20:00		Flood Tide: 13:53 - 20:33		Flood Tid
	Monitoring Time:		Monitoring Time:		Moni
	Mid-ebb: 08:45 - 12:15		Mid-ebb: 10:11 - 13:41		#\$Mid-eb
	Mid-flood: 14:45 - 18:15		Mid-flood: 15:28 - 18:58		*#Mid-floo
	Daytime & Evening Noise monitoring for M1, M2 & M3				
	Ecology monitoring for Marine Mammals by Vessel-based Line-Transect Survey				
1	12	13	14	15	16
Impact	Impact	Impact	17	Impact	10
Vater Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1	Daytime & Evening Noise monitoring for M1, M2 & M3	Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1		Ecology monitoring for WBSE	Water Quality monitoring for B1, B2
Tidal Period:		Tidal Period:			Tid
Ebb Tide: 12:50 - 15:00		Ebb Tide: 14:00 - 16:00			Ebb Tide
Flood Tide: 05:48 - 12:50		Flood Tide: 07:10 - 14:00			Flood Tid
Monitoring Time:		Monitoring Time:			Moni
#\$Mid-ebb: 12:56 - 14:53 *#Mid-flood: 08:00 - 11:04		#\$Mid-ebb: 14:06 - 15:54			*#Mid-eb Mid-floo
*#Mid-fi06d: 08:00 - 11:04		Mid-flood: 08:50 - 12:20			MIG-TIOO
	19	20	21	22	23
	Impact	Impact	Impact		
	Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1	Night time Noise monitoring for M1, M2 & M3	Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1		Water Quality monitoring for B1, B2
	Tidal Period:		Tidal Period:		Tid
	Ebb Tide: 06:00 - 11:29		Ebb Tide: 08:35 - 12:45		Ebb Tide
	Flood Tide: 11:29 - 18:15		Flood Tide: 12:45 - 19:09		Flood Tid
	Monitoring Time: * Mid-ebb: 08:00 - 11:12		Monitoring Time: Mid-ebb: 08:55 - 12:25		Moni #\$Mid-eb
	Mid-ebb: 08:00 - 11:12 Mid-flood: 13:07 - 16:37		Mid-ebb: 08:55 - 12:25 Mid-flood: 14:12 - 17:42		*#Mid-flo
	Daytime & Evening Noise monitoring for M1, M2 & M3		WI01000. 14.12 * 17.42		#1010-110
;	26	27	28	29	30
-	Impact		Impact	Impact	
	Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1		Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1		Water Quality monitoring for B1, B2
	Tidal Period:		Tidal Period:	16th Quarterly Coral Monitoring at Indirect Impact Site and Control Site	Tid
	Ebb Tide: 13:14 - 17:00		Ebb Tide: 14:57 - 18:23	Daytime & Evening Noise monitoring for M1, M2 & M3	Ebb Tide
	Flood Tide: 06:00 - 13:14		Flood Tide: 07:35 - 14:57		Flood Tid
	Monitoring Time:		Monitoring Time:		Moni
	Mid-ebb: 13:22 - 16:52		#\$Mid-ebb: 15:07 - 18:12		#\$&Mid-e
	*Mid-flood: 08:00 - 11:22		Mid-flood: 09:31 - 13:01		Mid-floo
					Night time Noise m
arks:					

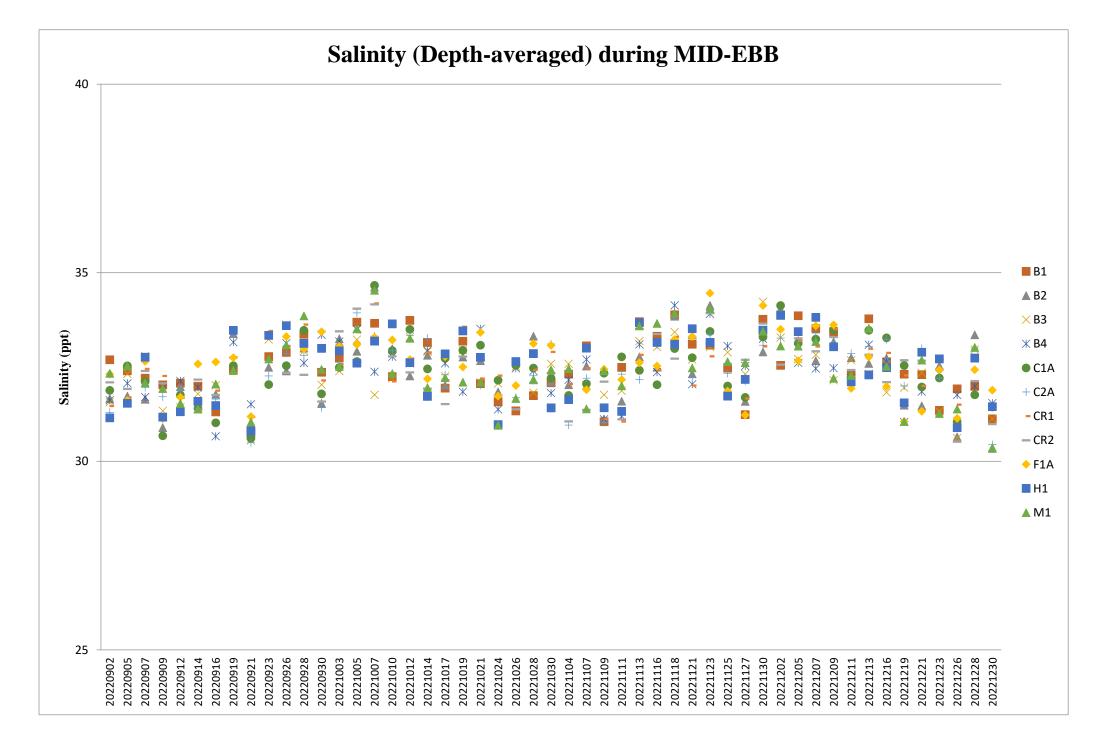
Remarks: 1. Daytime Noise Monitoring (07:00-1900), Evening Time Noise Monitoring (1900-2300), Night Time Noise Monitoring (2300-0700) 2. Water Quality Monitoring for \$1,\$2 and \$3 will only conduct during DCM works, refer to Detailed DCM Plan

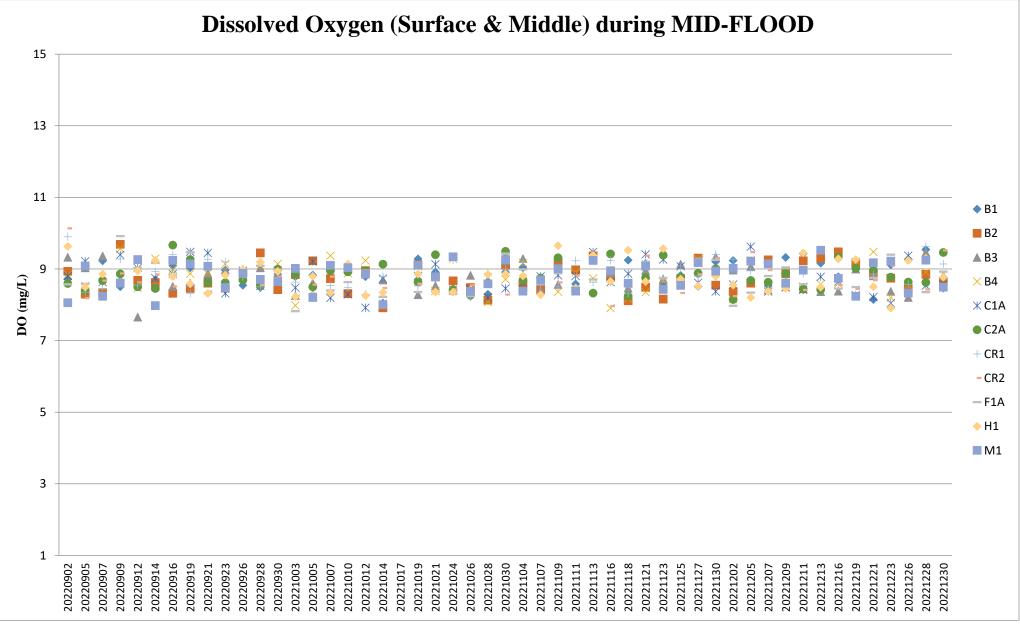
Note: - as per Marine Department Notice No 107 of 2018, all vessels employed for the works should stay in the works area outside the hours of works (0700 to 2300). Due to safty concern, Water Quality Monitoring would start at 0800. # - Prioritized routing: Mid-Ebb: C1 ->53 ->CR2 ->CR2 ->CR2 ->H1 ->Remaining stations 5 - Since predicted tide is shorter than 3.5 hours, method of 90% tidal period as monitoring time is approached. 8 - Due to safety concern for sampling event in night-time, method of 90% tidal period as monitoring time is approached and end at 1900.

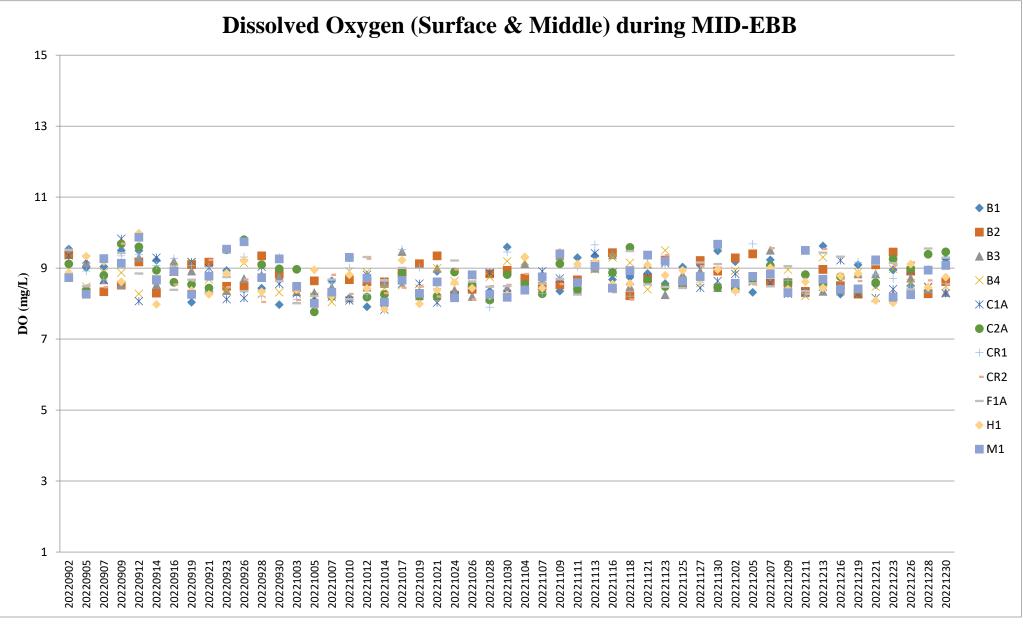
	Sat
	3
Impact B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Tide: 11:00 - 18:08 onitoring Time: ebb: 08:00 - 10:39 ood: 13:04 - 16:34	
	10
Impact 82, 83, 84, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: tide: 11:26 - 14:07 Tide: 04:27 - 11:26 nitroing Time: ebb: 11:34 - 13:58 flood: 08:00 - 11:05	
	17
Impact 182, 83, 84, 11, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: ide: 0100 - 09-22 Tide: 09-22 - 18:00 phitoring Time: ebb: 08:00 - 08:56 ood: 11:56 - 15:25	27
	24
Impact , B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: 106: 11:00 - 14:00 Tide: 03:27 - 11:00 onitoring Time: e-bb: 11:00 - 13:51 flood: 08:00 - 10:37	31
Impact	
B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: ide: 16:46 - 21:00 Tide: 0:906 - 16:46 Diftoring Time: -+ebb: 17:08 - 19:00 ood: 11:11 - 14:41 monitoring for M1, M2 & M3	

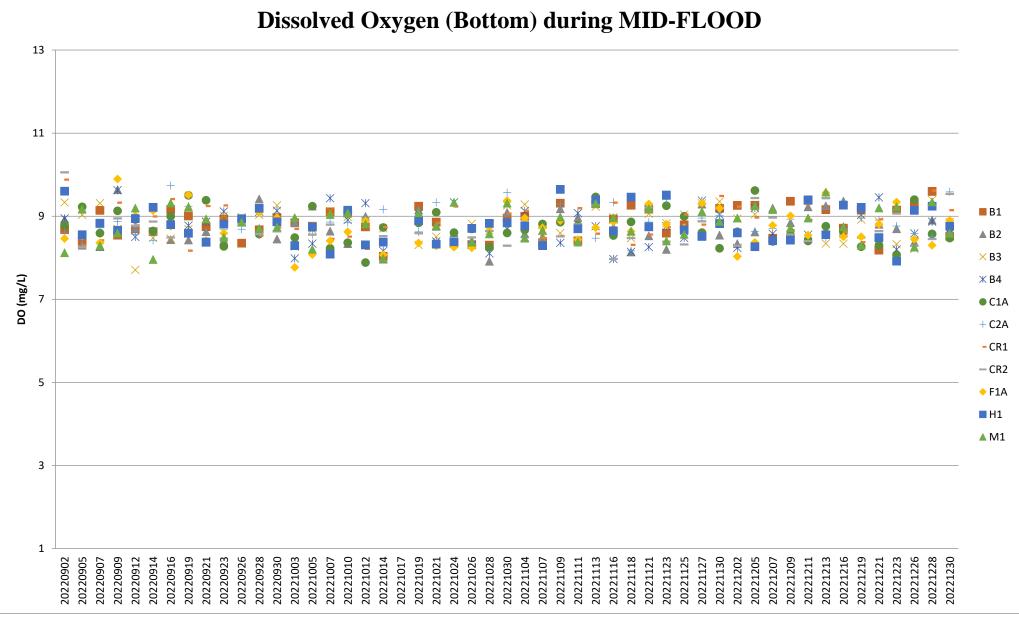
## Appendix D Water Quality Monitoring Data



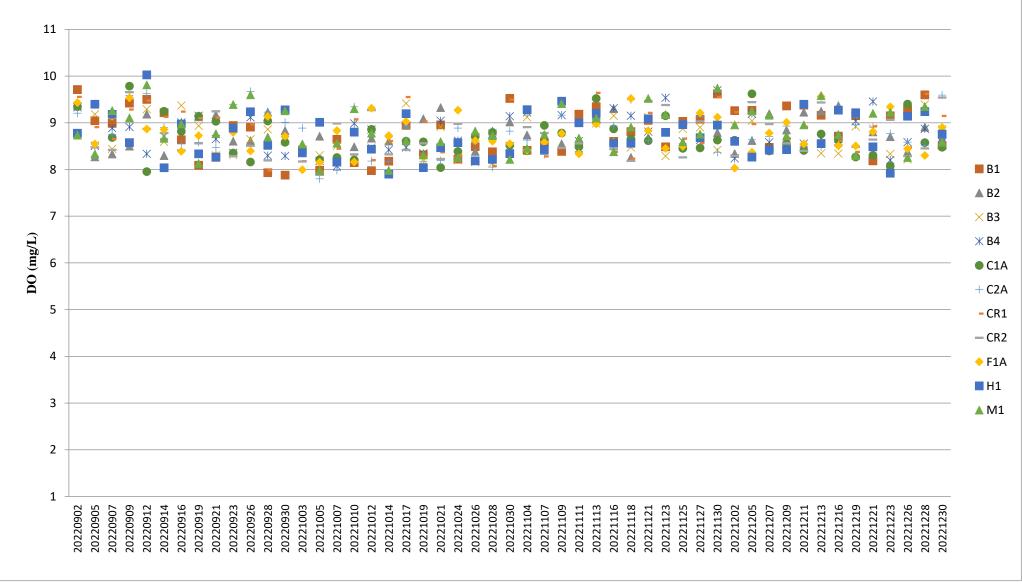




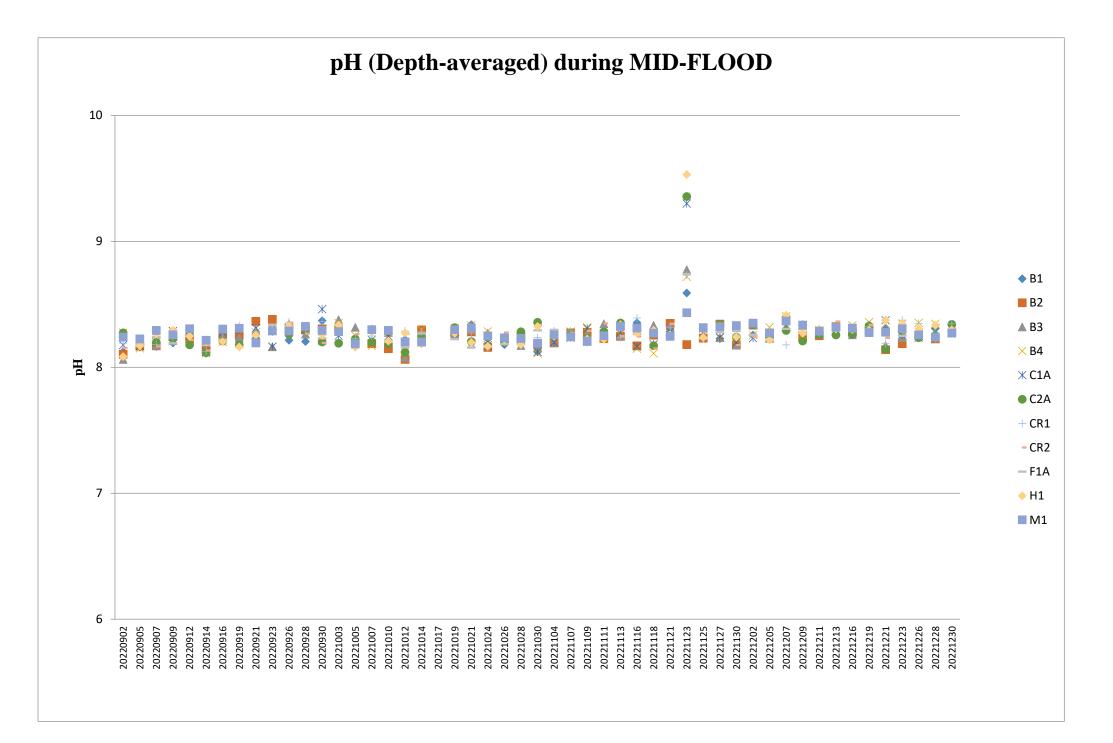


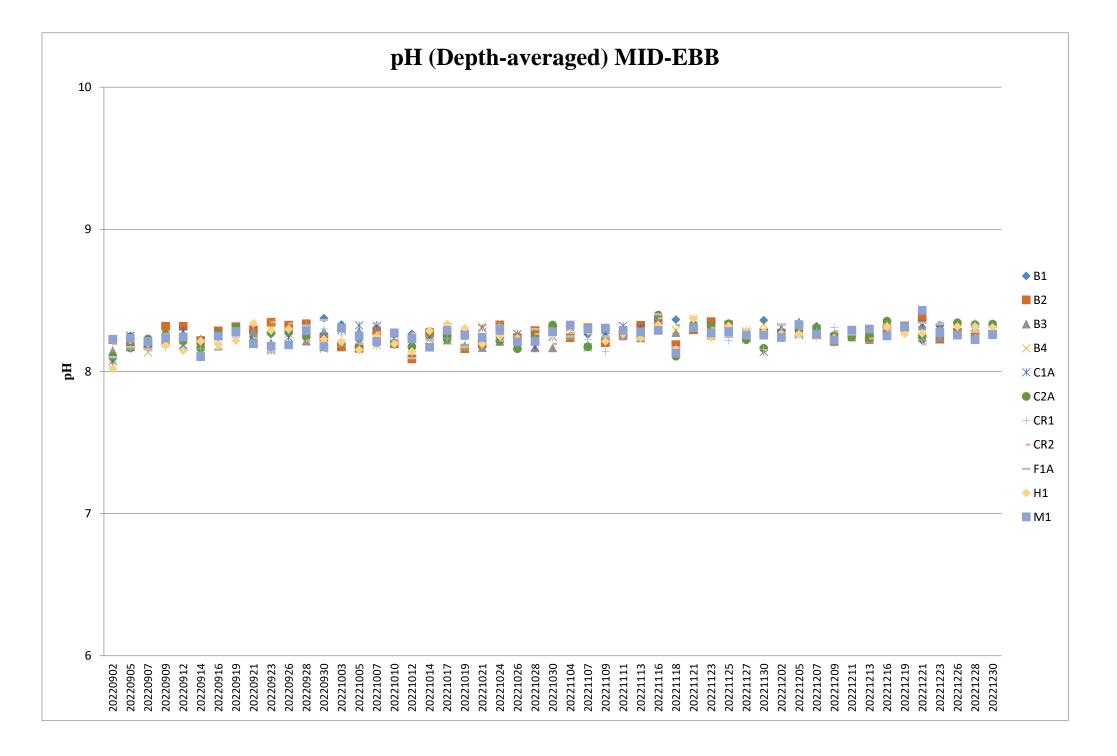


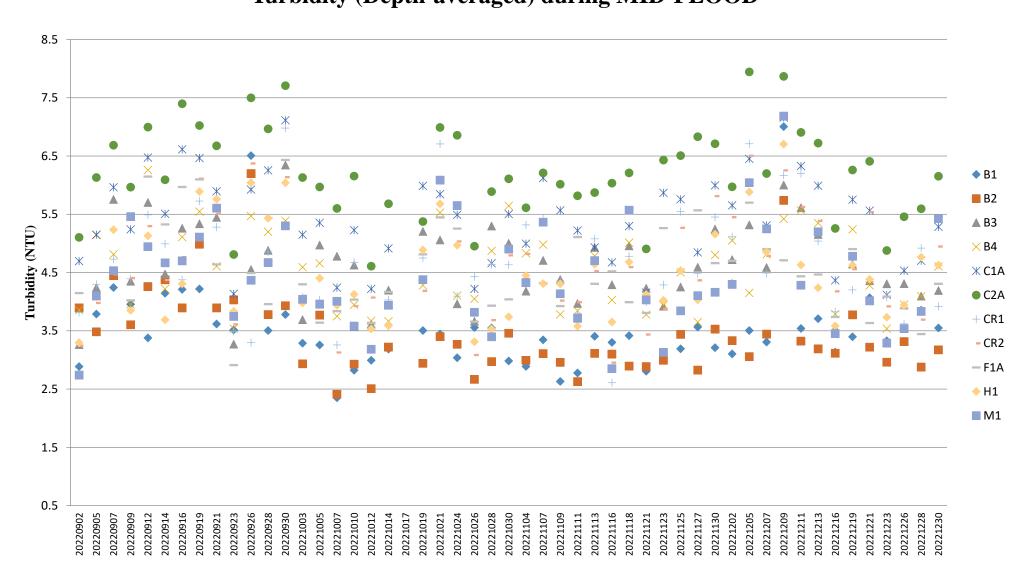
## **Dissolved Oxygen (Bottom) during MID-EBB**



Note:

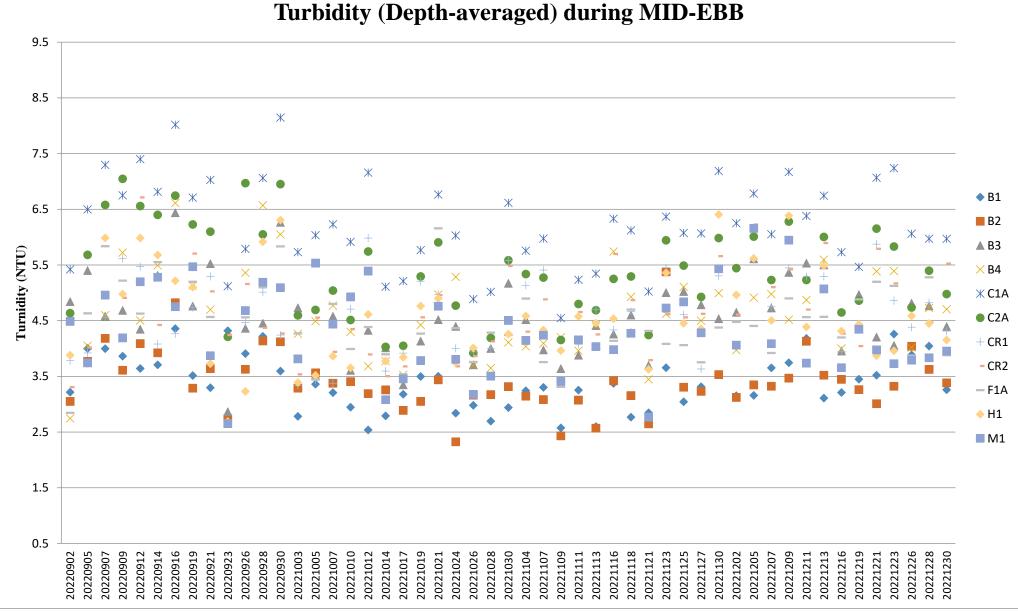


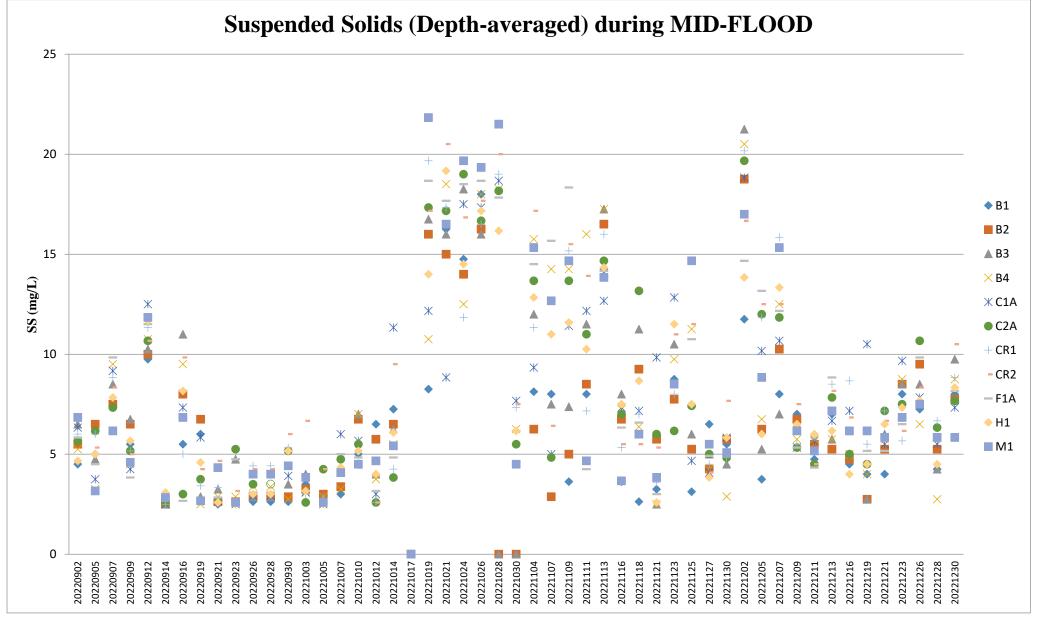


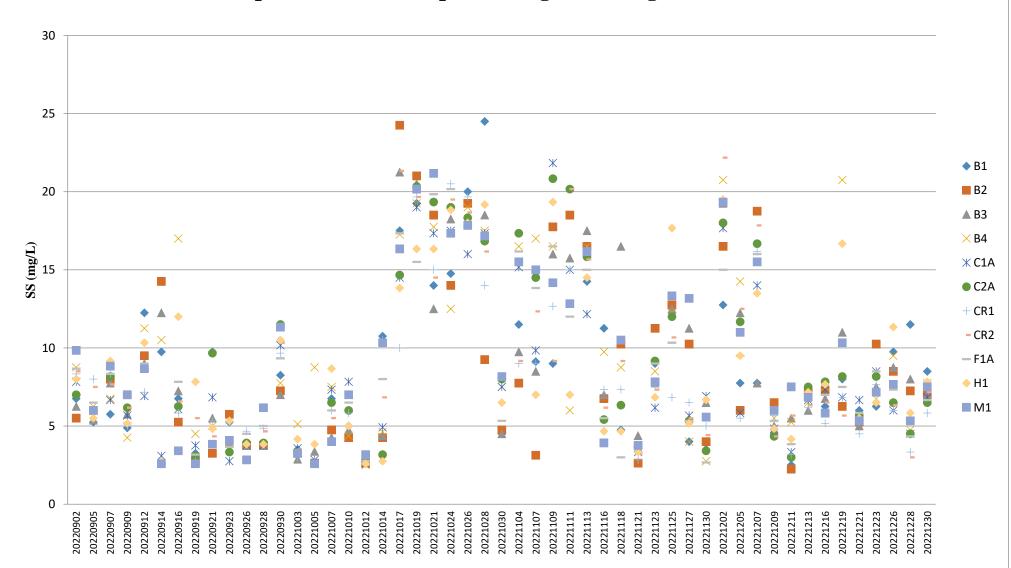


### **Turbidity (Depth-averaged) during MID-FLOOD**

Note:

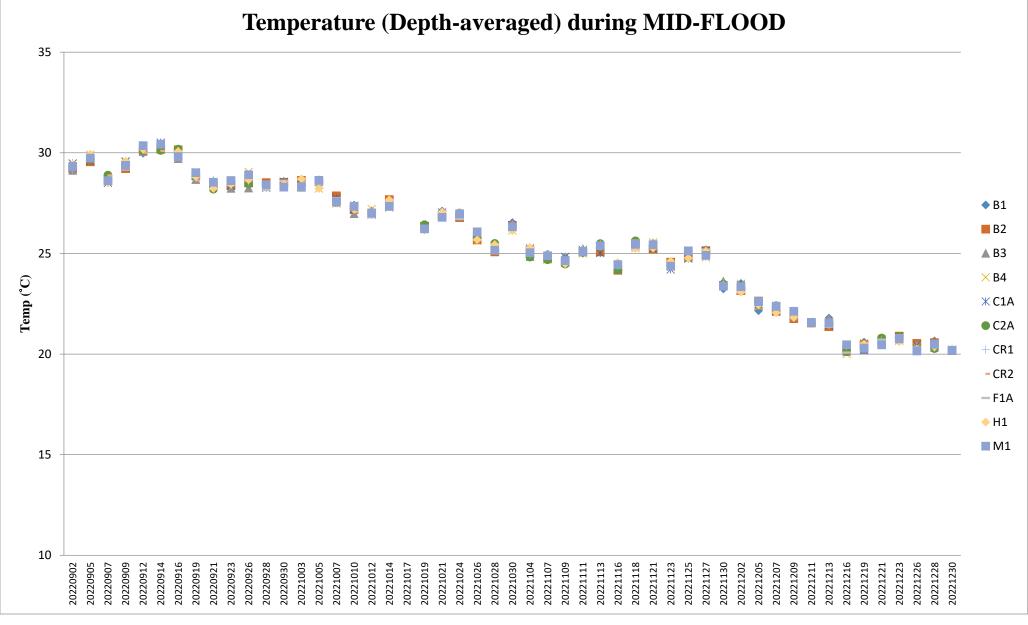




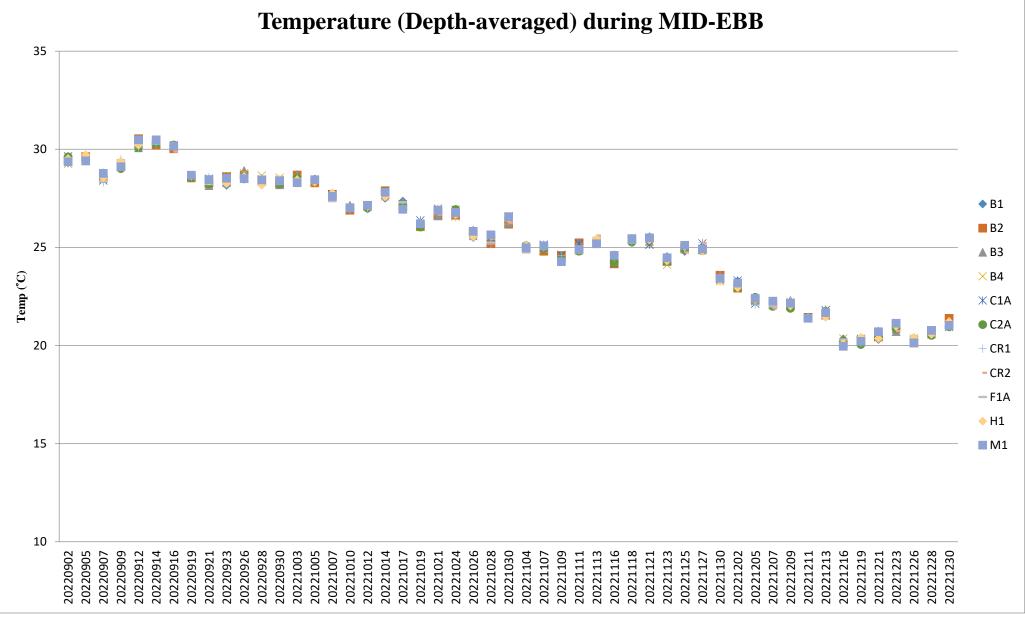


## Suspended Solids (Depth-averaged) during MID-EBB

Note:



1. The Action and Limit Levels of temperature can be referred to Table 2.7 of the monthly EM&A report.



1. The Action and Limit Levels of temperature can be referred to Table 2.7 of the monthly EM&A report.

Turbidty (NTU) Date SS (mg/L) Location Weather Sea Condition Tidal Water Level Depth (m) DO (mg/L) pН Temp (°C) Time Sal (ppt) (YYYYMMDD) Note 1 2.9 B1 20221202 Moderate Mid-Ebb 09:00 8.24 32.62 23.26 Cloudy Surface 1 9.11 6 B1 20221202 Cloudy Moderate Mid-Ebb Surface 1 09:00 9.26 8.24 32.53 23.26 2.9 4 B1 20221202 Cloudy Moderate Mid-Ebb Bottom 3.8 08:59 9.27 8.22 32.55 23.32 3.5 20 B1 20221202 Cloudy Moderate Mid-Ebb Bottom 3.8 08:59 9.23 8.25 32.48 23.29 3.3 21 B2 20221202 Moderate Mid-Ebb 9.28 8.21 34.05 22.98 2.9 18 Cloudy Surface 1 09:15 B2 20221202 1 22.9 2.6 19 Cloudy Moderate Mid-Ebb Surface 09:15 9.3 8.24 34.04 B2 20221202 3.5 15 Moderate Mid-Ebb 4.9 09:14 9.13 8.3 34.01 22.91 Cloudy Bottom B2 20221202 Moderate Mid-Ebb 4.9 09:14 9.16 8.32 34.06 22.94 3.4 14 Cloudy Bottom B3 20221202 23.11 4.0 18 Moderate Mid-Ebb 1 10:11 8.48 8.28 33.31 Cloudy Surface B3 20221202 Moderate Mid-Ebb 1 8.47 8.32 33.29 23.08 4.6 19 Cloudy Surface 10:11 B3 20221202 8.29 33.21 23.16 5.3 19 Cloudy Moderate Mid-Ebb Bottom 4.1 10:10 8.49 4.7 B3 20221202 Cloudy Moderate Mid-Ebb Bottom 4.1 10:10 8.45 8.3 33.31 23.03 21 B4 20221202 8.97 8.24 33.85 23.25 4.1 21 Cloudy Moderate Mid-Ebb Surface 1 10:01 B4 3.8 22 20221202 Cloudy Moderate Mid-Ebb Surface 1 10:01 8.89 8.29 33.89 23.19 B4 20221202 Moderate 3.5 23.15 4.3 21 Cloudy Mid-Ebb Bottom 10:00 9.09 8.24 33.83 B4 20221202 Cloudy Moderate Mid-Ebb Bottom 3.5 10:00 8.89 8.25 33.98 23.19 3.8 19 C1A 20221202 Cloudy Moderate Mid-Ebb Surface 1 08:30 8.81 8.32 34.21 23.35 5.8 15 C1A 20221202 Moderate Mid-Ebb Surface 1 08:30 8.86 8.28 34.19 23.36 6.1 17 Cloudy 5.55 8.32 23.32 6.2 17 C1A 20221202 Cloudy Moderate Mid-Ebb Middle 08:29 8.73 34.07 6.5 15 C1A 20221202 Cloudy Moderate Mid-Ebb Middle 5.55 08:29 8.74 8.35 34.1 23.24 C1A 20221202 Mid-Ebb 10.1 08:28 8.32 23.27 6.4 21 Cloudy Moderate Bottom 8.68 34.11 C1A 20221202 Moderate Mid-Ebb 10.1 08:28 8.81 8.28 34.11 23.35 6.5 21 Cloudy Bottom 20221202 8.39 22.96 5.0 17 C2A Cloudy Moderate Mid-Ebb Surface 1 10:31 8.21 33.25 C2A 20221202 Moderate Mid-Ebb Surface 10:31 8.45 8.21 33.21 23.02 5.0 19 Cloudy 1 5.4 C2A 20221202 Cloudy Moderate Mid-Ebb Middle 5.9 10:30 8.37 8.32 33.22 22.97 21 20221202 22.9 5.6 C2A Cloudy Moderate Mid-Ebb Middle 5.9 10:30 8.35 8.24 33.29 21 C2A 20221202 Moderate Mid-Ebb 10.8 10:29 8.48 8.22 33.33 22.94 5.8 16 Cloudy Bottom 20221202 22.9 5.9 C2A Cloudy Moderate Mid-Ebb Bottom 10.8 10:29 8.29 8.25 33.31 14 CR1 20221202 Cloudy Moderate Mid-Ebb Surface 1 10:12 8.28 8.32 33.8 23.01 4.4 19 CR1 20221202 Cloudy Moderate Mid-Ebb Surface 1 10:12 8.37 8.28 33.87 23.12 4.7 17 CR1 20221202 Moderate Mid-Ebb Middle 6.5 10:11 8.27 8.29 33.85 23.1 4.8 22 Cloudy CR1 20221202 Moderate Mid-Ebb Middle 6.5 10:11 8.33 8.3 33.91 22.99 5.0 22 Cloudy 5.2 CR1 20221202 Cloudy Moderate Mid-Ebb Bottom 12 10:10 8.44 8.35 33.75 23.04 18 5.7 CR1 20221202 Moderate Mid-Ebb 12 8.44 8.28 33.84 22.99 18 Cloudy Bottom 10:10 CR2 4.1 20221202 Moderate 09:56 8.39 8.21 32.5 23.06 26 Cloudy Mid-Ebb Surface 1 CR2 20221202 23.05 4.5 24 Moderate Mid-Ebb 1 09:56 8.28 8.22 32.56 Cloudy Surface CR2 20221202 Moderate Mid-Ebb Middle 5.95 09:55 8.32 8.22 32.56 23.16 4.9 21 Cloudy CR2 20221202 Moderate Mid-Ebb Middle 5.95 09:55 8.43 8.27 32.56 23.14 4.8 18 Cloudy CR2 20221202 Cloudy Moderate Mid-Ebb Bottom 10.9 09:54 8.27 8.25 32.55 23.06 4.6 21 CR2 20221202 Moderate Mid-Ebb 10.9 09:54 8.34 8.27 32.62 23.03 4.8 23 Cloudy Bottom

Turbidty (NTU) Date SS (mg/L) Location Weather Sea Condition Tidal Water Level Depth (m) DO (mg/L) pН Temp (°C) Time Sal (ppt) (YYYYMMDD) Note 1 3.9 F1A 20221202 Cloudy Moderate Mid-Ebb 09:24 8.6 8.29 33.46 23.15 19 Surface F1A 20221202 Cloudy Moderate Mid-Ebb Surface 1 09:24 8.59 8.35 33.52 23.18 4.1 21 F1A 20221202 Cloudy Moderate Mid-Ebb Middle 4 09:23 8.61 8.33 33.48 23.11 4.7 20 F1A 20221202 Cloudy Moderate Mid-Ebb Middle 4 09:23 8.63 8.33 33.48 23.06 4.6 18 F1A 20221202 Moderate Mid-Ebb 7 09:22 8.32 23.18 4.7 7 Cloudy Bottom 8.61 33.47 20221202 7 09:22 23.17 4.9 5 F1A Cloudy Moderate Mid-Ebb Bottom 8.59 8.35 33.57 20221202 23.02 5.1 20 H1 Moderate Mid-Ebb Surface 1 09:42 8.31 8.23 33.82 Cloudy H1 20221202 Moderate Mid-Ebb 1 09:42 8.41 8.27 33.88 22.9 5.1 22 Cloudy Surface H1 4.5 8.28 22.9 4.6 21 20221202 Moderate Mid-Ebb Middle 09:41 8.39 33.85 Cloudy H1 20221202 Moderate Mid-Ebb 4.5 09:41 8.44 8.28 33.9 22.99 4.8 17 Cloudy Middle H1 20221202 8 8.25 33.88 22.97 5.0 17 Cloudy Moderate Mid-Ebb Bottom 09:40 8.47 22.9 5.3 20 H1 20221202 Cloudy Moderate Mid-Ebb Bottom 8 09:40 8.38 8.27 33.88 3.7 M1 20221202 Moderate Mid-Ebb 8.59 8.23 33.07 23.16 16 Cloudy Surface 1 09:06 M1 20221202 Cloudy Moderate Mid-Ebb Surface 1 09:06 8.56 8.26 32.98 23.24 3.7 16 M1 20221202 Moderate 23.12 4.2 19 Cloudy Mid-Ebb Middle 4.85 09:05 8.57 8.22 33.15 M1 20221202 Cloudy Moderate Mid-Ebb Middle 4.85 09:05 8.54 8.25 33.07 23.2 4.1 20 M1 20221202 Cloudy Moderate Mid-Ebb Bottom 8.7 09:04 8.54 8.23 33.01 23.2 4.3 22 M1 20221202 Moderate Mid-Ebb 8.7 09:04 8.61 8.24 33.05 23.19 4.4 23 Cloudy Bottom B1 8.25 23.56 3.3 5 20221202 Cloudy Moderate Mid-Flood Surface 1 13:28 9.28 33.67 B1 3.2 5 20221202 Cloudy Moderate Mid-Flood Surface 1 13:28 9.19 8.26 33.78 23.47 B1 23.53 3.1 19 20221202 4.2 8.27 33.82 Cloudy Moderate Mid-Flood Bottom 13:27 9.24 B1 20221202 Moderate Mid-Flood 4.2 13:27 9.28 8.24 33.82 23.47 2.9 18 Cloudy Bottom B2 20221202 23.15 3.2 16 Cloudy Moderate Mid-Flood Surface 1 13:43 8.38 8.31 34.17 B2 20221202 Moderate Mid-Flood Surface 13:43 8.33 8.34 34.25 23.18 3.6 15 Cloudy 1 B2 3.4 20221202 Cloudy Moderate Mid-Flood Bottom 3.6 13:42 8.37 8.34 34.18 23.15 23 B2 20221202 23.14 3.2 21 Cloudy Moderate Mid-Flood Bottom 3.6 13:42 8.31 8.35 34.26 4.7 23 B3 20221202 Moderate Mid-Flood 13:17 9.03 8.31 32.56 23.16 Cloudy Surface 1 B3 20221202 4.3 22 Cloudy Moderate Mid-Flood Surface 1 13:17 8.91 8.34 32.58 23.17 5.0 B3 20221202 Cloudy Moderate Mid-Flood Bottom 3.4 13:16 8.96 8.37 32.52 23.19 19 B3 20221202 Cloudy Moderate Mid-Flood Bottom 3.4 13:16 8.92 8.33 32.57 23.27 4.9 21 B4 20221202 Moderate Mid-Flood 13:27 8.06 8.23 34.08 23.47 4.8 22 Cloudy Surface 1 B4 20221202 Moderate Mid-Flood Surface 1 13:27 8.25 8.3 34.01 23.51 4.7 21 Cloudy 19 B4 20221202 Cloudy Moderate Mid-Flood Bottom 3.6 13:26 8.22 8.23 34.04 23.44 5.5 5.3 B4 20221202 Moderate Mid-Flood 3.6 13:26 8.26 8.26 34.03 23.55 20 Cloudy Bottom 5.4 20221202 Moderate 8.5 8.25 33.2 23.43 20 C1A Cloudy Mid-Flood Surface 1 13:06 20221202 Moderate 23.49 5.4 21 C1A Mid-Flood 1 13:06 8.63 8.22 33.22 Cloudy Surface C1A 20221202 Moderate Mid-Flood Middle 5.85 13:05 8.5 8.24 33.25 23.43 5.6 19 Cloudy C1A 20221202 Moderate Mid-Flood Middle 5.85 13:05 8.62 8.21 33.1 23.34 5.8 19 Cloudy C1A 20221202 Cloudy Moderate Mid-Flood Bottom 10.7 13:04 8.64 8.26 33.2 23.37 6.1 16 C1A 20221202 Moderate Mid-Flood 10.7 13:04 8.61 8.21 33.17 23.49 5.8 18 Cloudy Bottom

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (℃)	Turbidty (NTU) Note 1	SS (mg/L)
C2A	20221202	Cloudy	Moderate	Mid-Flood	Surface	1	13:06	8.08	8.35	33.78	23.24	5.8	18
C2A	20221202	Cloudy	Moderate	Mid-Flood	Surface	1	13:06	8.21	8.36	33.71	23.33	5.3	20
C2A	20221202	Cloudy	Moderate	Mid-Flood	Middle	5.85	13:05	8.2	8.34	33.84	23.26	6.2	17
C2A	20221202	Cloudy	Moderate	Mid-Flood	Middle	5.85	13:05	8.19	8.32	33.86	23.31	5.8	20
C2A	20221202	Cloudy	Moderate	Mid-Flood	Bottom	10.7	13:04	8.02	8.33	33.78	23.28	6.5	21
C2A	20221202	Cloudy	Moderate	Mid-Flood	Bottom	10.7	13:04	8.06	8.32	33.77	23.23	6.2	22
CR1	20221202	Cloudy	Moderate	Mid-Flood	Surface	1	14:37	9.25	8.25	33.98	23.09	4.5	18
CR1	20221202	Cloudy	Moderate	Mid-Flood	Surface	1	14:37	9.27	8.28	34	23.03	4.6	17
CR1	20221202	Cloudy	Moderate	Mid-Flood	Middle	6.5	14:36	9.09	8.2	34.06	23.07	5.6	22
CR1	20221202	Cloudy	Moderate	Mid-Flood	Middle	6.5	14:36	9.26	8.21	33.96	23.07	4.9	22
CR1	20221202	Cloudy	Moderate	Mid-Flood	Bottom	12	14:35	9.27	8.24	33.97	23.11	5.9	20
CR1	20221202	Cloudy	Moderate	Mid-Flood	Bottom	12	14:35	9.19	8.28	33.91	23.16	5.3	22
CR2	20221202	Cloudy	Moderate	Mid-Flood	Surface	1	14:22	8.27	8.22	33.26	23.07	5.0	20
CR2	20221202	Cloudy	Moderate	Mid-Flood	Surface	1	14:22	8.21	8.24	33.2	23.07	4.7	19
CR2	20221202	Cloudy	Moderate	Mid-Flood	Middle	5.45	14:21	8.2	8.23	33.29	23.16	5.7	16
CR2	20221202	Cloudy	Moderate	Mid-Flood	Middle	5.45	14:21	8.35	8.25	33.21	23.18	5.8	14
CR2	20221202	Cloudy	Moderate	Mid-Flood	Bottom	9.9	14:20	8.3	8.27	33.26	23.05	5.8	15
CR2	20221202	Cloudy	Moderate	Mid-Flood	Bottom	9.9	14:20	8.28	8.23	33.31	23.15	5.7	16
F1A	20221202	Cloudy	Moderate	Mid-Flood	Surface	1	13:52	7.96	8.24	33.2	23.08	3.8	22
F1A	20221202	Cloudy	Moderate	Mid-Flood	Surface	1	13:52	7.98	8.28	33.09	23.14	4.1	19
F1A	20221202	Cloudy	Moderate	Mid-Flood	Middle	4.1	13:51	8.08	8.22	33.13	23.16	4.8	11
F1A	20221202	Cloudy	Moderate	Mid-Flood	Middle	4.1	13:51	7.96	8.25	33.19	23.07	4.7	14
F1A	20221202	Cloudy	Moderate	Mid-Flood	Bottom	7.2	13:50	8.04	8.27	33.11	23.12	5.7	12
F1A	20221202	Cloudy	Moderate	Mid-Flood	Bottom	7.2	13:50	8.02	8.28	33.11	23.16	5.1	10
H1	20221202	Cloudy	Moderate	Mid-Flood	Surface	1	14:08	8.58	8.35	32.99	23.05	4.1	15
H1	20221202	Cloudy	Moderate	Mid-Flood	Surface	1	14:08	8.52	8.32	33.03	23.07	3.8	14
H1	20221202	Cloudy	Moderate	Mid-Flood	Middle	4.3	14:07	8.52	8.37	33	23.04	4.3	19
H1	20221202	Cloudy	Moderate	Mid-Flood	Middle	4.3	14:07	8.56	8.37	33.05	23.16	4.2	18
H1	20221202	Cloudy	Moderate	Mid-Flood	Bottom	7.6	14:06	8.6	8.35	32.98	23.12	4.8	10
H1	20221202	Cloudy	Moderate	Mid-Flood	Bottom	7.6	14:06	8.6	8.35	33.03	23.01	4.7	7
M1	20221202	Cloudy	Moderate	Mid-Flood	Surface	1	14:15	9.1	8.32	33.9	23.36	3.6	20
M1	20221202	Cloudy	Moderate	Mid-Flood	Surface	1	14:15	8.94	8.35	33.8	23.3	4.2	17
M1	20221202	Cloudy	Moderate	Mid-Flood	Middle	4.15	14:14	8.99	8.37	33.96	23.39	4.3	16
M1	20221202	Cloudy	Moderate	Mid-Flood	Middle	4.15	14:14	9.06	8.35	33.82	23.4	4.2	15
M1	20221202	Cloudy	Moderate	Mid-Flood	Bottom	7.3	14:13	8.97	8.35	33.88	23.34	4.5	17
M1	20221202	Cloudy	Moderate	Mid-Flood	Bottom	7.3	14:13	8.94	8.36	33.89	23.33	4.9	17
B1	20221205	Cloudy	Moderate	Mid-Ebb	Surface	1	09:10	8.39	8.26	33.9	22.46	2.7	6
B1	20221205	Cloudy	Moderate	Mid-Ebb	Surface	1	09:10	8.25	8.27	33.89	22.4	2.8	9
B1	20221205	Cloudy	Moderate	Mid-Ebb	Bottom	3.6	09:09	8.36	8.26	33.8	22.42	3.8	6
B1	20221205	Cloudy	Moderate	Mid-Ebb	Bottom	3.6	09:09	8.28	8.29	33.85	22.5	3.3	10

Turbidty (NTU) Date SS (mg/L) Location Weather Sea Condition Tidal Water Level Depth (m) DO (mg/L) pН Temp (°C) Time Sal (ppt) (YYYYMMDD) Note 1 3.2 B2 20221205 Moderate Mid-Ebb 09:25 9.46 8.3 33.3 22.28 Cloudy Surface 1 4 B2 20221205 Cloudy Moderate Mid-Ebb Surface 1 09:25 9.34 8.35 33.16 22.31 3.0 6 B2 20221205 Cloudy Moderate Mid-Ebb Bottom 4.7 09:24 9.34 8.3 33.28 22.4 3.5 6 B2 20221205 Cloudy Moderate Mid-Ebb Bottom 4.7 09:24 9.3 8.34 33.06 22.4 3.7 8 B3 20221205 Moderate Mid-Ebb 11:23 8.72 8.37 32.68 22.31 5.4 13 Cloudy Surface 1 B3 20221205 1 11:23 32.57 22.31 5.5 Cloudy Moderate Mid-Ebb Surface 8.74 8.34 14 B3 20221205 5.8 10 Moderate Mid-Ebb 3.9 11:22 8.57 8.33 32.81 22.24 Cloudy Bottom B3 20221205 Moderate Mid-Ebb 3.9 11:22 8.63 8.35 32.78 22.33 5.8 12 Cloudy Bottom B4 20221205 22.19 4.7 14 Moderate Mid-Ebb 1 11:09 8.63 8.28 32.65 Cloudy Surface B4 20221205 Moderate Mid-Ebb 1 11:09 8.59 8.29 32.6 22.2 4.6 16 Cloudy Surface B4 20221205 3.1 8.25 32.6 22.3 5.1 Cloudy Moderate Mid-Ebb Bottom 11:08 8.66 14 5.2 13 B4 20221205 Cloudy Moderate Mid-Ebb Bottom 3.1 11:08 8.68 8.24 32.59 22.25 20221205 08:47 8.27 33.17 22.1 6.0 6 C1A Cloudy Moderate Mid-Ebb Surface 1 8.64 C1A 20221205 Cloudy Moderate Mid-Ebb Surface 1 08:47 8.62 8.28 33.16 22.09 6.2 4 20221205 Moderate 8.65 22.2 6.9 4 C1A Cloudy Mid-Ebb Middle 4.7 08:46 8.24 33.16 7 C1A 20221205 Cloudy Moderate Mid-Ebb Middle 4.7 08:46 8.62 8.26 33.07 22.13 6.9 C1A 20221205 Cloudy Moderate Mid-Ebb Bottom 8.4 08:45 8.71 8.24 33.21 22.13 7.5 7 C1A 20221205 Moderate Mid-Ebb 8.4 08:45 8.76 8.26 33 22.16 7.2 7 Cloudy Bottom 22.48 5.7 12 C2A 20221205 Cloudy Moderate Mid-Ebb Surface 1 10:40 8.74 8.29 33.13 5.2 13 C2A 20221205 Cloudy Moderate Mid-Ebb Surface 1 10:40 8.68 8.3 33.19 22.46 22.39 5.9 10 C2A 20221205 Mid-Ebb 6.25 8.73 8.28 33.23 Cloudy Moderate Middle 10:39 C2A 20221205 Moderate Mid-Ebb Middle 6.25 10:39 8.85 8.32 33.13 22.44 5.7 8 Cloudy 20221205 8.25 22.48 6.7 14 C2A Cloudy Moderate Mid-Ebb Bottom 11.5 10:38 8.69 33.18 C2A 20221205 Moderate Mid-Ebb 11.5 10:38 8.86 8.3 33.13 22.49 6.9 13 Cloudy Bottom 7 CR1 20221205 Cloudy Moderate Mid-Ebb Surface 1 10:20 9.71 8.27 33.25 22.09 4.9 20221205 1 22.06 4.9 CR1 Cloudy Moderate Mid-Ebb Surface 10:20 9.66 8.28 33.09 4 5 CR1 20221205 Mid-Ebb Middle 6.7 10:19 9.74 8.26 33.13 22.11 5.8 Cloudy Moderate 20221205 22.05 5.4 6 CR1 Cloudy Moderate Mid-Ebb Middle 6.7 10:19 9.65 8.28 33.24 6 CR1 20221205 Cloudy Moderate Mid-Ebb Bottom 12.4 10:18 9.62 8.24 33.27 22.17 6.4 5 CR1 20221205 Cloudy Moderate Mid-Ebb Bottom 12.4 10:18 9.6 8.31 33.22 22.07 6.1 CR2 20221205 Moderate Mid-Ebb 10:06 8.46 8.28 33.21 22.41 5.9 15 Cloudy Surface 1 CR2 20221205 Moderate Mid-Ebb Surface 1 10:06 8.63 8.32 33.32 22.27 5.7 16 Cloudy 22.34 CR2 20221205 Cloudy Moderate Mid-Ebb Middle 5.4 10:05 8.43 8.31 33.36 6.4 12 CR2 20221205 Moderate Mid-Ebb Middle 5.4 10:05 8.5 8.31 33.21 22.41 5.8 11 Cloudy CR2 6.8 20221205 Moderate 9.8 8.29 33.26 22.34 10 Cloudy Mid-Ebb Bottom 10:04 8.64 CR2 20221205 9.8 22.41 6.8 11 Moderate Mid-Ebb 10:04 8.63 8.29 33.2 Cloudy Bottom F1A 20221205 Moderate Mid-Ebb Surface 8.59 8.23 32.75 22.29 4.7 14 Cloudy 1 10:44 F1A 20221205 Moderate Mid-Ebb Surface 1 10:44 8.56 8.24 32.58 22.24 4.5 14 Cloudy F1A 20221205 Cloudy Moderate Mid-Ebb Middle 4.55 10:43 8.63 8.25 32.66 22.16 4.2 9 9 F1A 20221205 Moderate Mid-Ebb Middle 4.55 10:43 8.49 8.24 32.69 22.27 4.4 Cloudy

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pН	Sal (ppt)	Temp (⁰C)	Turbidty (NTU) Note 1	SS (mg/L)
F1A	20221205	Cloudy	Moderate	Mid-Ebb	Bottom	8.1	10:42	8.56	8.26	32.65	22.22	4.5	7
F1A	20221205	Cloudy	Moderate	Mid-Ebb	Bottom	8.1	10:42	8.64	8.27	32.66	22.3	4.1	4
H1	20221205	Cloudy	Moderate	Mid-Ebb	Surface	1	09:51	8.81	8.29	33.36	22.32	5.4	15
H1	20221205	Cloudy	Moderate	Mid-Ebb	Surface	1	09:51	8.7	8.25	33.45	22.38	5.1	13
H1	20221205	Cloudy	Moderate	Mid-Ebb	Middle	4.1	09:50	8.87	8.27	33.34	22.4	5.8	7
H1	20221205	Cloudy	Moderate	Mid-Ebb	Middle	4.1	09:50	8.65	8.25	33.53	22.31	5.6	7
H1	20221205	Cloudy	Moderate	Mid-Ebb	Bottom	7.2	09:49	8.71	8.25	33.58	22.3	6.1	9
H1	20221205	Cloudy	Moderate	Mid-Ebb	Bottom	7.2	09:49	8.75	8.26	33.38	22.32	5.8	6
M1	20221205	Cloudy	Moderate	Mid-Ebb	Surface	1	10:27	8.77	8.3	32.96	22.4	5.6	6
M1	20221205	Cloudy	Moderate	Mid-Ebb	Surface	1	10:27	8.77	8.35	33.09	22.37	6.0	7
M1	20221205	Cloudy	Moderate	Mid-Ebb	Middle	4.5	10:26	8.64	8.33	33.07	22.38	5.9	20
M1	20221205	Cloudy	Moderate	Mid-Ebb	Middle	4.5	10:26	8.66	8.35	33.21	22.41	6.2	18
M1	20221205	Cloudy	Moderate	Mid-Ebb	Bottom	8	10:25	8.63	8.3	32.96	22.44	6.7	6
M1	20221205	Cloudy	Moderate	Mid-Ebb	Bottom	8	10:25	8.71	8.35	33.02	22.45	6.6	9
B1	20221205	Cloudy	Moderate	Mid-Flood	Surface	1	15:09	9.33	8.22	33.54	22.09	3.8	4
B1	20221205	Cloudy	Moderate	Mid-Flood	Surface	1	15:09	9.13	8.24	33.7	22.24	3.4	3
B1	20221205	Cloudy	Moderate	Mid-Flood	Bottom	4	15:08	9.24	8.27	33.69	22.18	3.6	4
B1	20221205	Cloudy	Moderate	Mid-Flood	Bottom	4	15:08	9.29	8.22	33.58	22.12	3.3	4
B2	20221205	Cloudy	Moderate	Mid-Flood	Surface	1	15:25	8.64	8.28	33.74	22.68	3.2	5
B2	20221205	Cloudy	Moderate	Mid-Flood	Surface	1	15:25	8.56	8.25	33.59	22.63	2.9	5
B2	20221205	Cloudy	Moderate	Mid-Flood	Bottom	4.1	15:24	8.61	8.29	33.72	22.65	3.1	8
B2	20221205	Cloudy	Moderate	Mid-Flood	Bottom	4.1	15:24	8.63	8.27	33.77	22.59	3.1	7
B3	20221205	Cloudy	Moderate	Mid-Flood	Surface	1	14:58	8.94	8.22	33.03	22.37	5.3	4
B3	20221205	Cloudy	Moderate	Mid-Flood	Surface	1	14:58	9.2	8.24	33.07	22.37	4.9	5
B3	20221205	Cloudy	Moderate	Mid-Flood	Bottom	4	14:57	8.93	8.25	32.92	22.4	5.3	7
B3	20221205	Cloudy	Moderate	Mid-Flood	Bottom	4	14:57	9.16	8.21	33	22.52	5.8	5
B4	20221205	Cloudy	Moderate	Mid-Flood	Surface	1	15:08	9.13	8.3	32.59	22.29	3.9	10
B4	20221205	Cloudy	Moderate	Mid-Flood	Surface	1	15:08	9.35	8.34	32.64	22.43	3.9	8
B4	20221205	Cloudy	Moderate	Mid-Flood	Bottom	3.9	15:07	9.27	8.31	32.69	22.39	4.5	5
B4	20221205	Cloudy	Moderate	Mid-Flood	Bottom	3.9	15:07	9.12	8.32	32.6	22.33	4.4	4
C1A	20221205	Cloudy	Moderate	Mid-Flood	Surface	1	14:47	9.64	8.21	33.59	22.56	6.3	8
C1A	20221205	Cloudy	Moderate	Mid-Flood	Surface	1	14:47	9.6	8.24	33.66	22.55	5.9	9
C1A	20221205	Cloudy	Moderate	Mid-Flood	Middle	5.9	14:46	9.61	8.26	33.65	22.44	6.5	9
C1A	20221205	Cloudy	Moderate	Mid-Flood	Middle	5.9	14:46	9.54	8.22	33.59	22.48	6.3	11
C1A	20221205	Cloudy	Moderate	Mid-Flood	Bottom	10.8	14:45	9.68	8.24	33.61	22.53	6.9	12
C1A	20221205	Cloudy	Moderate	Mid-Flood	Bottom	10.8	14:45	9.56	8.23	33.58	22.46	6.8	12
C2A	20221205	Cloudy	Moderate	Mid-Flood	Surface	1	14:47	8.8	8.24	33.77	22.72	7.4	12
C2A	20221205	Cloudy	Moderate	Mid-Flood	Surface	1	14:47	8.56	8.22	33.66	22.54	7.3	13
C2A	20221205	Cloudy	Moderate	Mid-Flood	Middle	5.9	14:46	8.65	8.25	33.74	22.58	8.1	16
C2A	20221205	Cloudy	Moderate	Mid-Flood	Middle	5.9	14:46	8.8	8.24	33.7	22.63	7.9	15

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pН	Sal (ppt)	Temp (℃)	Turbidty (NTU) Note 1	SS (mg/L)
C2A	20221205	Cloudy	Moderate	Mid-Flood	Bottom	10.8	14:45	8.71	8.24	33.81	22.57	8.4	9
C2A	20221205	Cloudy	Moderate	Mid-Flood	Bottom	10.8	14:45	8.56	8.21	33.78	22.67	8.7	7
CR1	20221205	Cloudy	Moderate	Mid-Flood	Surface	1	16:19	8.94	8.28	32.75	22.44	6.2	8
CR1	20221205	Cloudy	Moderate	Mid-Flood	Surface	1	16:19	8.95	8.24	32.83	22.3	5.9	8
CR1	20221205	Cloudy	Moderate	Mid-Flood	Middle	6.35	16:18	8.8	8.3	32.77	22.48	6.7	12
CR1	20221205	Cloudy	Moderate	Mid-Flood	Middle	6.35	16:18	8.71	8.27	32.78	22.47	6.4	14
CR1	20221205	Cloudy	Moderate	Mid-Flood	Bottom	11.7	16:17	8.99	8.29	32.74	22.47	7.7	15
CR1	20221205	Cloudy	Moderate	Mid-Flood	Bottom	11.7	16:17	8.95	8.25	32.84	22.36	7.4	14
CR2	20221205	Cloudy	Moderate	Mid-Flood	Surface	1	16:02	9.41	8.25	32.39	22.48	6.0	14
CR2	20221205	Cloudy	Moderate	Mid-Flood	Surface	1	16:02	9.53	8.23	32.36	22.51	6.5	16
CR2	20221205	Cloudy	Moderate	Mid-Flood	Middle	5.9	16:01	9.23	8.3	32.47	22.46	6.4	13
CR2	20221205	Cloudy	Moderate	Mid-Flood	Middle	5.9	16:01	9.31	8.24	32.33	22.48	6.9	10
CR2	20221205	Cloudy	Moderate	Mid-Flood	Bottom	10.8	16:00	9.52	8.26	32.3	22.56	6.6	10
CR2	20221205	Cloudy	Moderate	Mid-Flood	Bottom	10.8	16:00	9.36	8.29	32.46	22.42	6.7	12
F1A	20221205	Cloudy	Moderate	Mid-Flood	Surface	1	15:34	8.39	8.23	32.48	22.41	5.8	12
F1A	20221205	Cloudy	Moderate	Mid-Flood	Surface	1	15:34	8.29	8.25	32.46	22.48	5.4	10
F1A	20221205	Cloudy	Moderate	Mid-Flood	Middle	4.2	15:33	8.57	8.21	32.52	22.45	5.6	15
F1A	20221205	Cloudy	Moderate	Mid-Flood	Middle	4.2	15:33	8.39	8.2	32.53	22.39	6.1	14
F1A	20221205	Cloudy	Moderate	Mid-Flood	Bottom	7.4	15:32	8.42	8.23	32.59	22.44	5.8	14
F1A	20221205	Cloudy	Moderate	Mid-Flood	Bottom	7.4	15:32	8.32	8.22	32.56	22.39	5.5	14
H1	20221205	Cloudy	Moderate	Mid-Flood	Surface	1	15:50	8.12	8.2	33	22.42	5.4	7
H1	20221205	Cloudy	Moderate	Mid-Flood	Surface	1	15:50	8.28	8.25	32.96	22.43	5.5	7
H1	20221205	Cloudy	Moderate	Mid-Flood	Middle	4.3	15:49	8.15	8.21	33.03	22.52	6.3	2
H1	20221205	Cloudy	Moderate	Mid-Flood	Middle	4.3	15:49	8.08	8.24	32.91	22.46	5.6	2
H1	20221205	Cloudy	Moderate	Mid-Flood	Bottom	7.6	15:48	8.16	8.19	33.06	22.44	6.6	8
H1	20221205	Cloudy	Moderate	Mid-Flood	Bottom	7.6	15:48	8.37	8.21	33.01	22.38	5.8	10
M1	20221205	Cloudy	Moderate	Mid-Flood	Surface	1	15:48	9.26	8.29	33.27	22.58	5.7	5
M1	20221205	Cloudy	Moderate	Mid-Flood	Surface	1	15:48	9.18	8.33	33.19	22.66	5.7	6
M1	20221205	Cloudy	Moderate	Mid-Flood	Middle	3.95	15:47	9.09	8.26	33.3	22.52	6.6	6
M1	20221205	Cloudy	Moderate	Mid-Flood	Middle	3.95	15:47	9.08	8.28	33.18	22.65	6.0	7
M1	20221205	Cloudy	Moderate	Mid-Flood	Bottom	6.9	15:46	9.2	8.24	33.37	22.59	6.0	16
M1	20221205	Cloudy	Moderate	Mid-Flood	Bottom	6.9	15:46	9.31	8.24	33.39	22.66	6.2	13
B1	20221207	Sunny	Moderate	Mid-Ebb	Surface	1	10:41	9.2	8.3	33.54	22.19	3.7	7
B1	20221207	Sunny	Moderate	Mid-Ebb	Surface	1	10:41	9.27	8.32	33.41	22.31	3.3	8
B1	20221207	Sunny	Moderate	Mid-Ebb	Bottom	3.9	10:40	9.22	8.33	33.49	22.17	3.9	6
B1	20221207	Sunny	Moderate	Mid-Ebb	Bottom	3.9	10:40	9.3	8.32	33.63	22.2	3.7	10
B2	20221207	Sunny	Moderate	Mid-Ebb	Surface	1	10:56	8.58	8.24	32.61	22.15	3.4	20
B2	20221207	Sunny	Moderate	Mid-Ebb	Surface	1	10:56	8.58	8.27	32.71	22.17	3.5	23
B2	20221207	Sunny	Moderate	Mid-Ebb	Bottom	4.9	10:55	8.51	8.24	32.74	22.18	3.2	17
B2	20221207	Sunny	Moderate	Mid-Ebb	Bottom	4.9	10:55	8.55	8.28	32.6	22.06	3.2	15

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pН	Sal (ppt)	Temp (⁰C)	Turbidty (NTU) Note 1	SS (mg/L)
B3	20221207	Sunny	Moderate	Mid-Ebb	Surface	1	12:15	9.44	8.27	32.85	22.17	4.7	5
B3	20221207	Sunny	Moderate	Mid-Ebb	Surface	1	12:15	9.57	8.27	32.73	22.2	4.4	8
B3	20221207	Sunny	Moderate	Mid-Ebb	Bottom	3.6	12:14	9.5	8.33	32.94	22.18	4.9	9
B3	20221207	Sunny	Moderate	Mid-Ebb	Bottom	3.6	12:14	9.61	8.28	32.77	22.09	5.0	9
B4	20221207	Sunny	Moderate	Mid-Ebb	Surface	1	12:05	8.94	8.29	32.49	22.19	4.5	15
B4	20221207	Sunny	Moderate	Mid-Ebb	Surface	1	12:05	8.94	8.3	32.4	22.25	4.3	13
B4	20221207	Sunny	Moderate	Mid-Ebb	Bottom	3.5	12:04	8.94	8.29	32.58	22.31	5.5	18
B4	20221207	Sunny	Moderate	Mid-Ebb	Bottom	3.5	12:04	9.03	8.33	32.37	22.28	5.7	16
C1A	20221207	Sunny	Moderate	Mid-Ebb	Surface	1	10:13	8.57	8.26	33.31	22.05	5.7	17
C1A	20221207	Sunny	Moderate	Mid-Ebb	Surface	1	10:13	8.6	8.33	33.24	22.03	5.8	15
C1A	20221207	Sunny	Moderate	Mid-Ebb	Middle	4.9	10:12	8.45	8.29	33.16	22.11	6.2	18
C1A	20221207	Sunny	Moderate	Mid-Ebb	Middle	4.9	10:12	8.55	8.27	33.21	22.11	6.0	18
C1A	20221207	Sunny	Moderate	Mid-Ebb	Bottom	8.8	10:11	8.56	8.29	33.34	21.95	6.4	9
C1A	20221207	Sunny	Moderate	Mid-Ebb	Bottom	8.8	10:11	8.62	8.33	33.18	22.09	6.3	7
C2A	20221207	Sunny	Moderate	Mid-Ebb	Surface	1	12:11	8.97	8.29	33.32	22.03	4.4	18
C2A	20221207	Sunny	Moderate	Mid-Ebb	Surface	1	12:11	9.17	8.29	33.31	22	4.7	20
C2A	20221207	Sunny	Moderate	Mid-Ebb	Middle	5.85	12:10	9.01	8.32	33.37	21.93	5.6	16
C2A	20221207	Sunny	Moderate	Mid-Ebb	Middle	5.85	12:10	9.02	8.32	33.46	22.05	4.9	20
C2A	20221207	Sunny	Moderate	Mid-Ebb	Bottom	10.7	12:09	8.95	8.28	33.43	21.95	5.8	14
C2A	20221207	Sunny	Moderate	Mid-Ebb	Bottom	10.7	12:09	8.98	8.33	33.51	22	6.0	12
CR1	20221207	Sunny	Moderate	Mid-Ebb	Surface	1	11:52	8.69	8.34	33.03	22.2	4.3	17
CR1	20221207	Sunny	Moderate	Mid-Ebb	Surface	1	11:52	8.79	8.27	32.88	22.09	4.5	15
CR1	20221207	Sunny	Moderate	Mid-Ebb	Middle	6.15	11:51	8.85	8.29	33.15	22.17	4.9	7
CR1	20221207	Sunny	Moderate	Mid-Ebb	Middle	6.15	11:51	8.87	8.27	33.14	22.1	4.8	10
CR1	20221207	Sunny	Moderate	Mid-Ebb	Bottom	11.3	11:50	8.77	8.27	33.08	22.13	5.2	23
CR1	20221207	Sunny	Moderate	Mid-Ebb	Bottom	11.3	11:50	8.79	8.26	32.98	22.23	4.8	25
CR2	20221207	Sunny	Moderate	Mid-Ebb	Surface	1	11:36	9.55	8.26	32.96	21.85	4.8	19
CR2	20221207	Sunny	Moderate	Mid-Ebb	Surface	1	11:36	9.58	8.31	32.85	21.94	4.7	19
CR2	20221207	Sunny	Moderate	Mid-Ebb	Middle	5.45	11:35	9.48	8.31	33.01	21.86	4.9	18
CR2	20221207	Sunny	Moderate	Mid-Ebb	Middle	5.45	11:35	9.49	8.26	32.92	21.93	4.9	16
CR2	20221207	Sunny	Moderate	Mid-Ebb	Bottom	9.9	11:34	9.5	8.28	32.81	21.93	5.6	18
CR2	20221207	Sunny	Moderate	Mid-Ebb	Bottom	9.9	11:34	9.6	8.26	32.94	21.89	5.7	17
F1A	20221207	Sunny	Moderate	Mid-Ebb	Surface	1	11:39	8.47	8.28	33.7	21.99	3.6	19
F1A	20221207	Sunny	Moderate	Mid-Ebb	Surface	1	11:39	8.51	8.28	33.72	21.97	3.7	17
F1A	20221207	Sunny	Moderate	Mid-Ebb	Middle	4.05	11:38	8.52	8.25	33.49	21.97	3.9	14
F1A	20221207	Sunny	Moderate	Mid-Ebb	Middle	4.05	11:38	8.62	8.26	33.66	22	3.9	14
F1A	20221207	Sunny	Moderate	Mid-Ebb	Bottom	7.1	11:37	8.51	8.27	33.47	22.03	4.4	16
F1A	20221207	Sunny	Moderate	Mid-Ebb	Bottom	7.1	11:37	8.59	8.28	33.51	22.05	4.1	16
H1	20221207	Sunny	Moderate	Mid-Ebb	Surface	1	11:21	8.99	8.24	33.88	22.18	4.3	7
H1	20221207	Sunny	Moderate	Mid-Ebb	Surface	1	11:21	9.04	8.25	33.77	22.18	4.3	8

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pН	Sal (ppt)	Temp (°C)	Turbidty (NTU) Note 1	SS (mg/L)
H1	20221207	Sunny	Moderate	Mid-Ebb	Middle	4.4	11:20	8.88	8.24	33.83	22.28	4.4	13
H1	20221207	Sunny	Moderate	Mid-Ebb	Middle	4.4	11:20	9.03	8.24	33.87	22.32	4.6	15
H1	20221207	Sunny	Moderate	Mid-Ebb	Bottom	7.8	11:19	8.85	8.25	33.87	22.19	4.7	20
H1	20221207	Sunny	Moderate	Mid-Ebb	Bottom	7.8	11:19	9.03	8.25	33.68	22.22	4.7	18
M1	20221207	Sunny	Moderate	Mid-Ebb	Surface	1	11:00	8.8	8.27	33.13	22.24	3.5	18
M1	20221207	Sunny	Moderate	Mid-Ebb	Surface	1	11:00	8.87	8.27	33.29	22.27	3.6	16
M1	20221207	Sunny	Moderate	Mid-Ebb	Middle	4.7	10:59	8.79	8.26	33.15	22.23	4.0	9
M1	20221207	Sunny	Moderate	Mid-Ebb	Middle	4.7	10:59	8.84	8.24	33.2	22.3	3.8	10
M1	20221207	Sunny	Moderate	Mid-Ebb	Bottom	8.4	10:58	8.84	8.24	33.09	22.29	4.9	20
M1	20221207	Sunny	Moderate	Mid-Ebb	Bottom	8.4	10:58	9	8.29	33.2	22.27	4.7	20
B1	20221207	Sunny	Moderate	Mid-Flood	Surface	1	15:51	8.52	8.42	32.3	22.27	3.2	8
B1	20221207	Sunny	Moderate	Mid-Flood	Surface	1	15:51	8.55	8.39	32.48	22.3	2.9	6
B1	20221207	Sunny	Moderate	Mid-Flood	Bottom	4.4	15:50	8.47	8.38	32.4	22.25	3.9	9
B1	20221207	Sunny	Moderate	Mid-Flood	Bottom	4.4	15:50	8.47	8.4	32.51	22.21	3.3	9
B2	20221207	Sunny	Moderate	Mid-Flood	Surface	1	16:06	9.23	8.37	32.72	22.09	3.2	11
B2	20221207	Sunny	Moderate	Mid-Flood	Surface	1	16:06	9.27	8.37	32.62	22.1	3.3	10
B2	20221207	Sunny	Moderate	Mid-Flood	Bottom	3.9	16:05	9.14	8.38	32.73	22.19	3.8	10
B2	20221207	Sunny	Moderate	Mid-Flood	Bottom	3.9	16:05	9.25	8.37	32.75	22.11	3.5	10
B3	20221207	Sunny	Moderate	Mid-Flood	Surface	1	15:41	8.43	8.32	32.54	22.2	4.5	9
B3	20221207	Sunny	Moderate	Mid-Flood	Surface	1	15:41	8.41	8.32	32.54	22.21	4.1	6
B3	20221207	Sunny	Moderate	Mid-Flood	Bottom	4.1	15:40	8.41	8.33	32.69	22.28	4.9	8
B3	20221207	Sunny	Moderate	Mid-Flood	Bottom	4.1	15:40	8.44	8.31	32.71	22.18	4.8	5
B4	20221207	Sunny	Moderate	Mid-Flood	Surface	1	15:51	8.38	8.41	32.18	22.4	4.5	11
B4	20221207	Sunny	Moderate	Mid-Flood	Surface	1	15:51	8.59	8.37	32.3	22.41	4.8	12
B4	20221207	Sunny	Moderate	Mid-Flood	Bottom	3.9	15:50	8.57	8.42	32.1	22.41	5.2	14
B4	20221207	Sunny	Moderate	Mid-Flood	Bottom	3.9	15:50	8.59	8.42	32.26	22.4	4.9	13
C1A	20221207	Sunny	Moderate	Mid-Flood	Surface	1	15:30	8.32	8.31	32.74	22.14	5.1	14
C1A	20221207	Sunny	Moderate	Mid-Flood	Surface	1	15:30	8.42	8.33	32.84	22.07	4.8	12
C1A	20221207	Sunny	Moderate	Mid-Flood	Middle	5.95	15:29	8.31	8.32	32.8	22.19	5.3	7
C1A	20221207	Sunny	Moderate	Mid-Flood	Middle	5.95	15:29	8.44	8.34	32.8	22.11	5.0	8
C1A	20221207	Sunny	Moderate	Mid-Flood	Bottom	10.9	15:28	8.37	8.33	32.72	22.15	5.9	12
C1A	20221207	Sunny	Moderate	Mid-Flood	Bottom	10.9	15:28	8.42	8.34	32.73	22.18	5.8	11
C2A	20221207	Sunny	Moderate	Mid-Flood	Surface	1	15:30	8.6	8.3	33.13	22.44	6.0	8
C2A	20221207	Sunny	Moderate	Mid-Flood	Surface	1	15:30	8.66	8.28	33.24	22.44	6.1	10
C2A	20221207	Sunny	Moderate	Mid-Flood	Middle	5.85	15:29	8.65	8.33	33.16	22.45	6.1	11
C2A	20221207	Sunny	Moderate	Mid-Flood	Middle	5.85	15:29	8.74	8.29	33.25	22.38	6.3	13
C2A	20221207	Sunny	Moderate	Mid-Flood	Bottom	10.7	15:28	8.68	8.27	33.24	22.36	6.4	14
C2A	20221207	Sunny	Moderate	Mid-Flood	Bottom	10.7	15:28	8.73	8.28	33.14	22.35	6.5	15
CR1	20221207	Sunny	Moderate	Mid-Flood	Surface	1	16:58	8.44	8.19	33.35	22.12	4.3	14
CR1	20221207	Sunny	Moderate	Mid-Flood	Surface	1	16:58	8.45	8.14	33.22	22.11	4.6	13

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pН	Sal (ppt)	Temp (⁰C)	Turbidty (NTU) Note 1	SS (mg/L)
CR1	20221207	Sunny	Moderate	Mid-Flood	Middle	6.15	16:57	8.4	8.2	33.36	22.16	4.4	15
CR1	20221207	Sunny	Moderate	Mid-Flood	Middle	6.15	16:57	8.44	8.17	33.43	22.16	4.1	15
CR1	20221207	Sunny	Moderate	Mid-Flood	Bottom	11.3	16:56	8.42	8.18	33.37	22.07	4.8	20
CR1	20221207	Sunny	Moderate	Mid-Flood	Bottom	11.3	16:56	8.42	8.19	33.42	22.05	4.7	18
CR2	20221207	Sunny	Moderate	Mid-Flood	Surface	1	16:42	8.95	8.33	32.72	22.39	4.6	14
CR2	20221207	Sunny	Moderate	Mid-Flood	Surface	1	16:42	8.99	8.32	32.82	22.38	4.3	12
CR2	20221207	Sunny	Moderate	Mid-Flood	Middle	5.6	16:41	8.98	8.3	32.78	22.34	4.9	14
CR2	20221207	Sunny	Moderate	Mid-Flood	Middle	5.6	16:41	9.08	8.29	32.59	22.39	4.8	14
CR2	20221207	Sunny	Moderate	Mid-Flood	Bottom	10.2	16:40	8.9	8.29	32.66	22.34	5.0	10
CR2	20221207	Sunny	Moderate	Mid-Flood	Bottom	10.2	16:40	9.04	8.3	32.78	22.32	5.1	11
F1A	20221207	Sunny	Moderate	Mid-Flood	Surface	1	16:17	8.78	8.29	32.3	22.38	4.8	14
F1A	20221207	Sunny	Moderate	Mid-Flood	Surface	1	16:17	8.83	8.31	32.28	22.32	4.2	17
F1A	20221207	Sunny	Moderate	Mid-Flood	Middle	4.2	16:16	8.77	8.29	32.3	22.34	5.0	10
F1A	20221207	Sunny	Moderate	Mid-Flood	Middle	4.2	16:16	8.92	8.33	32.27	22.37	4.8	12
F1A	20221207	Sunny	Moderate	Mid-Flood	Bottom	7.4	16:15	8.77	8.33	32.25	22.33	5.3	10
F1A	20221207	Sunny	Moderate	Mid-Flood	Bottom	7.4	16:15	8.79	8.28	32.48	22.33	5.3	10
H1	20221207	Sunny	Moderate	Mid-Flood	Surface	1	16:31	8.37	8.44	33.65	22.08	4.4	16
H1	20221207	Sunny	Moderate	Mid-Flood	Surface	1	16:31	8.37	8.38	33.61	21.98	4.5	14
H1	20221207	Sunny	Moderate	Mid-Flood	Middle	4.1	16:30	8.43	8.44	33.6	22.09	5.1	12
H1	20221207	Sunny	Moderate	Mid-Flood	Middle	4.1	16:30	8.35	8.41	33.67	22.06	4.9	14
H1	20221207	Sunny	Moderate	Mid-Flood	Bottom	7.2	16:29	8.44	8.42	33.44	22.07	5.2	12
H1	20221207	Sunny	Moderate	Mid-Flood	Bottom	7.2	16:29	8.39	8.39	33.46	22.07	5.0	12
M1	20221207	Sunny	Moderate	Mid-Flood	Surface	1	16:41	9.08	8.34	32.18	22.34	5.1	10
M1	20221207	Sunny	Moderate	Mid-Flood	Surface	1	16:41	9.21	8.35	32.01	22.38	5.2	12
M1	20221207	Sunny	Moderate	Mid-Flood	Middle	3.7	16:40	9.21	8.38	32.02	22.39	5.4	18
M1	20221207	Sunny	Moderate	Mid-Flood	Middle	3.7	16:40	9.23	8.39	31.93	22.36	5.4	18
M1	20221207	Sunny	Moderate	Mid-Flood	Bottom	6.4	16:39	9.09	8.35	32.01	22.36	5.3	18
M1	20221207	Sunny	Moderate	Mid-Flood	Bottom	6.4	16:39	9.23	8.39	31.95	22.42	5.1	16
B1	20221209	Cloudy	Moderate	Mid-Flood	Surface	1	09:18	9.27	8.31	32.54	22.11	7.3	8
B1	20221209	Cloudy	Moderate	Mid-Flood	Surface	1	09:18	9.37	8.34	32.41	21.93	6.3	6
B1	20221209	Cloudy	Moderate	Mid-Flood	Bottom	4.3	09:17	9.41	8.33	32.52	22.12	7.4	7
B1	20221209	Cloudy	Moderate	Mid-Flood	Bottom	4.3	09:17	9.31	8.37	32.38	22.11	7.1	7
B2	20221209	Cloudy	Moderate	Mid-Flood	Surface	1	09:33	8.86	8.21	32.82	21.73	6.0	6
B2	20221209	Cloudy	Moderate	Mid-Flood	Surface	1	09:33	8.87	8.23	32.71	21.76	5.5	7
B2	20221209	Cloudy	Moderate	Mid-Flood	Bottom	4.1	09:32	8.77	8.27	32.6	21.7	5.9	6
B2	20221209	Cloudy	Moderate	Mid-Flood	Bottom	4.1	09:32	8.92	8.27	32.63	21.86	5.7	8
B3	20221209	Cloudy	Moderate	Mid-Flood	Surface	1	10:08	8.66	8.33	32.93	21.76	5.8	6
B3	20221209	Cloudy	Moderate	Mid-Flood	Surface	1	10:08	8.63	8.35	33.07	21.94	5.9	7
B3	20221209	Cloudy	Moderate	Mid-Flood	Bottom	3.4	10:07	8.49	8.31	33.04	21.91	5.8	6
B3	20221209	Cloudy	Moderate	Mid-Flood	Bottom	3.4	10:07	8.63	8.35	32.88	21.87	6.5	7

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (⁰C)	Turbidty (NTU) Note 1	SS (mg/L)
B4	20221209	Cloudy	Moderate	Mid-Flood	Surface	1	09:58	8.44	8.2	32.1	22.12	5.3	6
B4	20221209	Cloudy	Moderate	Mid-Flood	Surface	1	09:58	8.51	8.26	31.88	22.06	5.1	5
B4	20221209	Cloudy	Moderate	Mid-Flood	Bottom	4.2	09:57	8.4	8.28	31.95	22.07	6.1	5
B4	20221209	Cloudy	Moderate	Mid-Flood	Bottom	4.2	09:57	8.51	8.28	32	21.96	5.2	7
C1A	20221209	Cloudy	Moderate	Mid-Flood	Surface	1	08:51	8.46	8.26	33.4	22.18	6.9	4
C1A	20221209	Cloudy	Moderate	Mid-Flood	Surface	1	08:51	8.53	8.3	33.58	22.03	6.5	4
C1A	20221209	Cloudy	Moderate	Mid-Flood	Middle	5.95	08:50	8.47	8.27	33.43	22.2	7.0	5
C1A	20221209	Cloudy	Moderate	Mid-Flood	Middle	5.95	08:50	8.48	8.33	33.37	22.05	6.9	5
C1A	20221209	Cloudy	Moderate	Mid-Flood	Bottom	10.9	08:49	8.57	8.31	33.43	22.12	7.9	6
C1A	20221209	Cloudy	Moderate	Mid-Flood	Bottom	10.9	08:49	8.54	8.32	33.53	22.15	7.9	8
C2A	20221209	Cloudy	Moderate	Mid-Flood	Surface	1	08:02	8.81	8.23	32.25	22.02	6.8	5
C2A	20221209	Cloudy	Moderate	Mid-Flood	Surface	1	08:02	8.93	8.23	32.42	22.08	7.3	5
C2A	20221209	Cloudy	Moderate	Mid-Flood	Middle	6	08:01	8.8	8.2	32.16	22.08	8.2	5
C2A	20221209	Cloudy	Moderate	Mid-Flood	Middle	6	08:01	8.96	8.21	32.16	22.09	8.3	6
C2A	20221209	Cloudy	Moderate	Mid-Flood	Bottom	11	08:00	8.89	8.18	32.2	22.11	8.7	5
C2A	20221209	Cloudy	Moderate	Mid-Flood	Bottom	11	08:00	8.97	8.2	32.4	22.17	8.0	6
CR1	20221209	Cloudy	Moderate	Mid-Flood	Surface	1	08:21	8.66	8.34	33.52	21.86	5.5	6
CR1	20221209	Cloudy	Moderate	Mid-Flood	Surface	1	08:21	8.68	8.32	33.43	21.91	5.9	5
CR1	20221209	Cloudy	Moderate	Mid-Flood	Middle	6.3	08:20	8.68	8.33	33.41	21.99	6.2	5
CR1	20221209	Cloudy	Moderate	Mid-Flood	Middle	6.3	08:20	8.83	8.32	33.51	21.84	6.5	6
CR1	20221209	Cloudy	Moderate	Mid-Flood	Bottom	11.6	08:19	8.64	8.34	33.54	21.83	6.9	6
CR1	20221209	Cloudy	Moderate	Mid-Flood	Bottom	11.6	08:19	8.69	8.32	33.3	21.86	6.1	5
CR2	20221209	Cloudy	Moderate	Mid-Flood	Surface	1	08:35	8.42	8.26	33.29	21.99	6.1	7
CR2	20221209	Cloudy	Moderate	Mid-Flood	Surface	1	08:35	8.54	8.26	33.46	21.88	6.1	6
CR2	20221209	Cloudy	Moderate	Mid-Flood	Middle	5.45	08:34	8.43	8.26	33.31	21.89	6.3	8
CR2	20221209	Cloudy	Moderate	Mid-Flood	Middle	5.45	08:34	8.45	8.29	33.42	21.88	5.8	7
CR2	20221209	Cloudy	Moderate	Mid-Flood	Bottom	9.9	08:33	8.57	8.3	33.22	22.02	6.8	10
CR2	20221209	Cloudy	Moderate	Mid-Flood	Bottom	9.9	08:33	8.55	8.19	33.36	21.98	6.4	7
F1A	20221209	Cloudy	Moderate	Mid-Flood	Surface	1	09:22	9.03	8.28	33.46	22.23	4.9	5
F1A	20221209	Cloudy	Moderate	Mid-Flood	Surface	1	09:22	9.06	8.28	33.52	22.11	4.4	7
F1A	20221209	Cloudy	Moderate	Mid-Flood	Middle	3.8	09:21	9.06	8.33	33.69	22.3	4.7	4
F1A	20221209	Cloudy	Moderate	Mid-Flood	Middle	3.8	09:21	9.01	8.35	33.71	22.26	5.1	6
F1A	20221209	Cloudy	Moderate	Mid-Flood	Bottom	6.6	09:20	8.98	8.27	33.47	22.14	4.6	5
F1A	20221209	Cloudy	Moderate	Mid-Flood	Bottom	6.6	09:20	9.04	8.3	33.46	22.22	4.6	5
H1	20221209	Cloudy	Moderate	Mid-Flood	Surface	1	10:00	8.47	8.27	33.41	21.83	7.1	8
H1	20221209	Cloudy	Moderate	Mid-Flood	Surface	1	10:00	8.45	8.28	33.43	21.73	6.2	5
H1	20221209	Cloudy	Moderate	Mid-Flood	Middle	4.15	09:59	8.33	8.27	33.53	21.74	6.3	6
H1	20221209	Cloudy	Moderate	Mid-Flood	Middle	4.15	09:59	8.47	8.27	33.47	21.87	6.5	8
H1	20221209	Cloudy	Moderate	Mid-Flood	Bottom	7.3	09:58	8.47	8.25	33.34	21.84	7.4	6
H1	20221209	Cloudy	Moderate	Mid-Flood	Bottom	7.3	09:58	8.38	8.28	33.39	21.9	6.7	6

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pН	Sal (ppt)	Temp (⁰C)	Turbidty (NTU) Note 1	SS (mg/L)
M1	20221209	Cloudy	Moderate	Mid-Flood	Surface	1	08:58	8.63	8.34	31.81	22.09	6.4	7
M1	20221209	Cloudy	Moderate	Mid-Flood	Surface	1	08:58	8.57	8.35	31.84	22.23	6.5	5
M1	20221209	Cloudy	Moderate	Mid-Flood	Middle	4.3	08:57	8.63	8.31	31.94	22.18	7.7	6
M1	20221209	Cloudy	Moderate	Mid-Flood	Middle	4.3	08:57	8.63	8.35	31.8	22.1	7.5	6
M1	20221209	Cloudy	Moderate	Mid-Flood	Bottom	7.6	08:56	8.69	8.3	31.74	22.11	7.3	6
M1	20221209	Cloudy	Moderate	Mid-Flood	Bottom	7.6	08:56	8.75	8.36	31.93	22.05	7.7	7
B1	20221209	Cloudy	Moderate	Mid-Ebb	Bottom	3.7	11:57	8.34	8.24	33.32	22.02	4.3	5
B1	20221209	Cloudy	Moderate	Mid-Ebb	Bottom	3.7	11:57	8.3	8.25	33.43	22.14	4.0	5
B1	20221209	Cloudy	Moderate	Mid-Ebb	Surface	1	11:58	8.38	8.25	33.45	22.07	3.6	3
B1	20221209	Cloudy	Moderate	Mid-Ebb	Surface	1	11:58	8.48	8.28	33.55	22.03	3.0	5
B2	20221209	Cloudy	Moderate	Mid-Ebb	Bottom	4.4	12:12	8.64	8.2	33.12	22.03	3.7	9
B2	20221209	Cloudy	Moderate	Mid-Ebb	Bottom	4.4	12:12	8.51	8.23	33.3	22.03	3.5	6
B2	20221209	Cloudy	Moderate	Mid-Ebb	Surface	1	12:13	8.52	8.2	33	22.11	3.5	6
B2	20221209	Cloudy	Moderate	Mid-Ebb	Surface	1	12:13	8.67	8.21	33.25	22.03	3.2	5
B3	20221209	Cloudy	Moderate	Mid-Ebb	Bottom	4.4	11:52	8.57	8.24	32.24	22.38	5.6	5
B3	20221209	Cloudy	Moderate	Mid-Ebb	Bottom	4.4	11:52	8.52	8.22	32.06	22.29	5.3	7
B3	20221209	Cloudy	Moderate	Mid-Ebb	Surface	1	11:53	8.6	8.19	32.05	22.23	5.3	4
B3	20221209	Cloudy	Moderate	Mid-Ebb	Surface	1	11:53	8.49	8.22	32.24	22.33	5.2	4
B4	20221209	Cloudy	Moderate	Mid-Ebb	Bottom	3.5	12:02	8.96	8.24	32.48	22.31	5.0	6
B4	20221209	Cloudy	Moderate	Mid-Ebb	Bottom	3.5	12:02	9.01	8.25	32.57	22.18	4.9	5
B4	20221209	Cloudy	Moderate	Mid-Ebb	Surface	1	12:03	9.01	8.25	32.38	22.24	3.9	5
B4	20221209	Cloudy	Moderate	Mid-Ebb	Surface	1	12:03	8.91	8.23	32.46	22.18	4.3	6
C1A	20221209	Cloudy	Moderate	Mid-Ebb	Bottom	9.5	11:34	8.3	8.24	33.43	22.07	7.8	6
C1A	20221209	Cloudy	Moderate	Mid-Ebb	Bottom	9.5	11:34	8.41	8.24	33.37	21.93	7.9	4
C1A	20221209	Cloudy	Moderate	Mid-Ebb	Middle	5.25	11:35	8.49	8.25	33.42	21.92	7.1	4
C1A	20221209	Cloudy	Moderate	Mid-Ebb	Middle	5.25	11:35	8.36	8.24	33.36	22.03	7.0	6
C1A	20221209	Cloudy	Moderate	Mid-Ebb	Surface	1	11:36	8.28	8.23	33.63	22.07	6.3	4
C1A	20221209	Cloudy	Moderate	Mid-Ebb	Surface	1	11:36	8.28	8.23	33.66	22.01	7.0	5
C2A	20221209	Cloudy	Moderate	Mid-Ebb	Bottom	10.6	11:40	8.53	8.26	33.08	21.86	6.5	6
C2A	20221209	Cloudy	Moderate	Mid-Ebb	Bottom	10.6	11:40	8.48	8.27	33.1	22	6.6	5
C2A	20221209	Cloudy	Moderate	Mid-Ebb	Middle	5.8	11:41	8.49	8.25	33.11	21.83	6.2	3
C2A	20221209	Cloudy	Moderate	Mid-Ebb	Middle	5.8	11:41	8.45	8.28	33.16	21.83	5.9	5
C2A	20221209	Cloudy	Moderate	Mid-Ebb	Surface	1	11:42	8.57	8.21	33.06	21.95	6.2	4
C2A	20221209	Cloudy	Moderate	Mid-Ebb	Surface	1	11:42	8.62	8.24	33.02	21.89	6.3	3
CR1	20221209	Cloudy	Moderate	Mid-Ebb	Bottom	12	13:04	8.82	8.32	33.39	22.27	5.6	5
CR1	20221209	Cloudy	Moderate	Mid-Ebb	Bottom	12	13:04	8.73	8.33	33.43	22.23	6.2	6
CR1	20221209	Cloudy	Moderate	Mid-Ebb	Middle	6.5	13:05	8.73	8.32	33.64	22.39	5.3	5
CR1	20221209	Cloudy	Moderate	Mid-Ebb	Middle	6.5	13:05	8.67	8.27	33.48	22.4	5.0	7
CR1	20221209	Cloudy	Moderate	Mid-Ebb	Surface	1	13:06	8.64	8.32	33.55	22.39	5.5	6
CR1	20221209	Cloudy	Moderate	Mid-Ebb	Surface	1	13:06	8.68	8.3	33.52	22.3	5.0	5

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (℃)	Turbidty (NTU) Note 1	SS (mg/L)
CR2	20221209	Cloudy	Moderate	Mid-Ebb	Bottom	11.1	12:49	8.32	8.26	33.37	22.07	5.7	6
CR2	20221209	Cloudy	Moderate	Mid-Ebb	Bottom	11.1	12:49	8.48	8.32	33.27	22.07	5.9	6
CR2	20221209	Cloudy	Moderate	Mid-Ebb	Middle	6.05	12:50	8.46	8.28	33.21	22.02	5.5	2
CR2	20221209	Cloudy	Moderate	Mid-Ebb	Middle	6.05	12:50	8.16	8.28	33.19	22.03	5.1	3
CR2	20221209	Cloudy	Moderate	Mid-Ebb	Surface	1	12:51	8.14	8.26	33.35	22.03	5.3	4
CR2	20221209	Cloudy	Moderate	Mid-Ebb	Surface	1	12:51	8.48	8.3	33.37	22.17	5.0	5
F1A	20221209	Cloudy	Moderate	Mid-Ebb	Bottom	7.3	12:27	9.17	8.24	33.58	22.38	5.0	4
F1A	20221209	Cloudy	Moderate	Mid-Ebb	Bottom	7.3	12:27	9.14	8.25	33.62	22.29	5.4	6
F1A	20221209	Cloudy	Moderate	Mid-Ebb	Middle	4.15	12:28	9.15	8.2	33.69	22.29	4.7	5
F1A	20221209	Cloudy	Moderate	Mid-Ebb	Middle	4.15	12:28	9.07	8.22	33.63	22.3	5.2	6
F1A	20221209	Cloudy	Moderate	Mid-Ebb	Surface	1	12:29	9.01	8.2	33.55	22.26	4.5	5
F1A	20221209	Cloudy	Moderate	Mid-Ebb	Surface	1	12:29	9.11	8.21	33.64	22.39	4.6	6
H1	20221209	Cloudy	Moderate	Mid-Ebb	Bottom	6.9	12:37	8.35	8.24	33	22.05	6.4	5
H1	20221209	Cloudy	Moderate	Mid-Ebb	Bottom	6.9	12:37	8.36	8.24	32.97	21.97	6.8	7
H1	20221209	Cloudy	Moderate	Mid-Ebb	Middle	3.95	12:38	8.37	8.24	33.15	22.06	6.4	4
H1	20221209	Cloudy	Moderate	Mid-Ebb	Middle	3.95	12:38	8.27	8.26	33.12	22.03	6.4	3
H1	20221209	Cloudy	Moderate	Mid-Ebb	Surface	1	12:39	8.4	8.2	32.98	21.94	6.2	5
H1	20221209	Cloudy	Moderate	Mid-Ebb	Surface	1	12:39	8.42	8.24	33	22.08	6.0	5
M1	20221209	Cloudy	Moderate	Mid-Ebb	Bottom	8	12:50	8.33	8.24	32.19	22.17	6.4	7
M1	20221209	Cloudy	Moderate	Mid-Ebb	Bottom	8	12:50	8.43	8.24	32.13	22.13	6.0	6
M1	20221209	Cloudy	Moderate	Mid-Ebb	Middle	4.5	12:51	8.36	8.23	32.25	22.18	5.8	6
M1	20221209	Cloudy	Moderate	Mid-Ebb	Middle	4.5	12:51	8.3	8.19	32.11	22.12	6.0	6
M1	20221209	Cloudy	Moderate	Mid-Ebb	Surface	1	12:52	8.29	8.24	32.26	22.17	5.8	5
M1	20221209	Cloudy	Moderate	Mid-Ebb	Surface	1	12:52	8.33	8.19	32.26	22.2	5.6	6
B1	20221211	Cloudy	Moderate	Mid-Flood	Surface	1	09:23	9.48	8.26	32.16	21.52	3.5	4
B1	20221211	Cloudy	Moderate	Mid-Flood	Surface	1	09:23	9.38	8.28	32.02	21.52	3.4	3
B1	20221211	Cloudy	Moderate	Mid-Flood	Bottom	4.4	09:22	9.38	8.26	32.12	21.51	3.4	5
B1	20221211	Cloudy	Moderate	Mid-Flood	Bottom	4.4	09:22	9.38	8.26	32.13	21.59	4.0	7
B2	20221211	Cloudy	Moderate	Mid-Flood	Surface	1	09:40	9.18	8.24	32.89	21.51	3.1	5
B2	20221211	Cloudy	Moderate	Mid-Flood	Surface	1	09:40	9.28	8.27	32.99	21.54	3.2	6
B2	20221211	Cloudy	Moderate	Mid-Flood	Bottom	4	09:39	9.23	8.24	32.95	21.53	3.5	5
B2	20221211	Cloudy	Moderate	Mid-Flood	Bottom	4	09:39	9.22	8.25	32.98	21.61	3.6	6
B3	20221211	Cloudy	Moderate	Mid-Flood	Surface	1	10:10	8.51	8.26	32.82	21.62	5.2	5
B3	20221211	Cloudy	Moderate	Mid-Flood	Surface	1	10:10	8.39	8.27	32.96	21.59	5.5	3
B3	20221211	Cloudy	Moderate	Mid-Flood	Bottom	3.7	10:09	8.44	8.27	32.84	21.6	6.0	6
B3	20221211	Cloudy	Moderate	Mid-Flood	Bottom	3.7	10:09	8.46	8.25	32.92	21.58	5.7	4
B4	20221211	Cloudy	Moderate	Mid-Flood	Surface	1	10:00	8.54	8.27	33.3	21.59	5.5	5
B4	20221211	Cloudy	Moderate	Mid-Flood	Surface	1	10:00	8.49	8.29	33.35	21.61	5.0	4
B4	20221211	Cloudy	Moderate	Mid-Flood	Bottom	3.9	09:59	8.57	8.29	33.26	21.54	5.9	6
B4	20221211	Cloudy	Moderate	Mid-Flood	Bottom	3.9	09:59	8.54	8.33	33.23	21.58	5.8	8

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (⁰C)	Turbidty (NTU) Note 1	SS (mg/L)
C1A	20221211	Cloudy	Moderate	Mid-Flood	Surface	1	08:55	8.41	8.28	33.17	21.62	6.0	6
C1A	20221211	Cloudy	Moderate	Mid-Flood	Surface	1	08:55	8.42	8.28	33.19	21.55	6.5	5
C1A	20221211	Cloudy	Moderate	Mid-Flood	Middle	5.3	08:54	8.42	8.25	33.2	21.6	6.2	5
C1A	20221211	Cloudy	Moderate	Mid-Flood	Middle	5.3	08:54	8.39	8.27	33.24	21.53	6.3	6
C1A	20221211	Cloudy	Moderate	Mid-Flood	Bottom	9.6	08:53	8.39	8.27	33.09	21.54	6.8	6
C1A	20221211	Cloudy	Moderate	Mid-Flood	Bottom	9.6	08:53	8.42	8.24	33.1	21.52	6.3	6
C2A	20221211	Cloudy	Moderate	Mid-Flood	Surface	1	08:02	8.44	8.27	33.31	21.61	6.0	6
C2A	20221211	Cloudy	Moderate	Mid-Flood	Surface	1	08:02	8.43	8.26	33.17	21.52	6.7	5
C2A	20221211	Cloudy	Moderate	Mid-Flood	Middle	5.65	08:01	8.47	8.22	33.19	21.61	6.8	3
C2A	20221211	Cloudy	Moderate	Mid-Flood	Middle	5.65	08:01	8.51	8.28	33.27	21.51	6.8	4
C2A	20221211	Cloudy	Moderate	Mid-Flood	Bottom	10.3	08:00	8.48	8.27	33.18	21.52	7.6	4
C2A	20221211	Cloudy	Moderate	Mid-Flood	Bottom	10.3	08:00	8.49	8.27	33.23	21.56	7.6	5
CR1	20221211	Cloudy	Moderate	Mid-Flood	Surface	1	08:21	8.85	8.28	32.5	21.6	6.0	5
CR1	20221211	Cloudy	Moderate	Mid-Flood	Surface	1	08:21	8.91	8.28	32.57	21.59	5.5	4
CR1	20221211	Cloudy	Moderate	Mid-Flood	Middle	6	08:20	8.85	8.24	32.45	21.57	6.4	7
CR1	20221211	Cloudy	Moderate	Mid-Flood	Middle	6	08:20	8.87	8.26	32.46	21.54	6.0	6
CR1	20221211	Cloudy	Moderate	Mid-Flood	Bottom	11	08:19	8.92	8.28	32.51	21.59	6.7	8
CR1	20221211	Cloudy	Moderate	Mid-Flood	Bottom	11	08:19	8.91	8.29	32.51	21.51	6.5	5
CR2	20221211	Cloudy	Moderate	Mid-Flood	Surface	1	08:36	8.39	8.25	32.41	21.51	5.2	5
CR2	20221211	Cloudy	Moderate	Mid-Flood	Surface	1	08:36	8.44	8.25	32.36	21.53	5.5	6
CR2	20221211	Cloudy	Moderate	Mid-Flood	Middle	5.8	08:35	8.45	8.26	32.57	21.53	5.5	3
CR2	20221211	Cloudy	Moderate	Mid-Flood	Middle	5.8	08:35	8.42	8.29	32.45	21.51	5.9	2
CR2	20221211	Cloudy	Moderate	Mid-Flood	Bottom	10.6	08:34	8.37	8.28	32.54	21.59	5.8	5
CR2	20221211	Cloudy	Moderate	Mid-Flood	Bottom	10.6	08:34	8.43	8.28	32.5	21.58	5.9	6
F1A	20221211	Cloudy	Moderate	Mid-Flood	Surface	1	09:25	8.62	8.29	32.31	21.59	4.6	5
F1A	20221211	Cloudy	Moderate	Mid-Flood	Surface	1	09:25	8.53	8.3	32.16	21.61	3.9	3
F1A	20221211	Cloudy	Moderate	Mid-Flood	Middle	4	09:24	8.6	8.27	32.26	21.54	4.5	6
F1A	20221211	Cloudy	Moderate	Mid-Flood	Middle	4	09:24	8.54	8.28	32.34	21.56	4.1	4
F1A	20221211	Cloudy	Moderate	Mid-Flood	Bottom	7	09:23	8.53	8.27	32.27	21.62	4.9	3
F1A	20221211	Cloudy	Moderate	Mid-Flood	Bottom	7	09:23	8.56	8.27	32.29	21.56	4.7	5
H1	20221211	Cloudy	Moderate	Mid-Flood	Surface	1	10:06	9.41	8.26	32.12	21.59	4.3	6
H1	20221211	Cloudy	Moderate	Mid-Flood	Surface	1	10:06	9.48	8.26	31.92	21.56	4.1	6
H1	20221211	Cloudy	Moderate	Mid-Flood	Middle	3.95	10:05	9.4	8.32	31.95	21.57	4.7	5
H1	20221211	Cloudy	Moderate	Mid-Flood	Middle	3.95	10:05	9.4	8.33	32.1	21.58	4.8	6
H1	20221211	Cloudy	Moderate	Mid-Flood	Bottom	6.9	10:04	9.39	8.31	31.96	21.55	4.9	6
H1	20221211	Cloudy	Moderate	Mid-Flood	Bottom	6.9	10:04	9.4	8.34	31.92	21.51	5.1	7
M1	20221211	Cloudy	Moderate	Mid-Flood	Surface	1	09:00	8.95	8.26	32.56	21.61	3.9	5
M1	20221211	Cloudy	Moderate	Mid-Flood	Surface	1	09:00	8.99	8.31	32.61	21.57	3.9	3
M1	20221211	Cloudy	Moderate	Mid-Flood	Middle	4.2	08:59	8.88	8.28	32.51	21.61	4.2	4
M1	20221211	Cloudy	Moderate	Mid-Flood	Middle	4.2	08:59	8.91	8.31	32.67	21.52	4.6	4

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pН	Sal (ppt)	Temp (℃)	Turbidty (NTU) Note 1	SS (mg/L)
M1	20221211	Cloudy	Moderate	Mid-Flood	Bottom	7.4	08:58	8.99	8.27	32.7	21.59	4.5	7
M1	20221211	Cloudy	Moderate	Mid-Flood	Bottom	7.4	08:58	8.92	8.29	32.65	21.54	4.7	8
B1	20221211	Cloudy	Moderate	Mid-Ebb	Surface	1	13:20	8.39	8.26	32.22	21.53	4.2	2
B1	20221211	Cloudy	Moderate	Mid-Ebb	Surface	1	13:20	8.32	8.29	32.28	21.43	4.2	2
B1	20221211	Cloudy	Moderate	Mid-Ebb	Bottom	3.8	13:19	8.33	8.22	32.26	21.36	4.0	4
B1	20221211	Cloudy	Moderate	Mid-Ebb	Bottom	3.8	13:19	8.38	8.28	32.36	21.37	4.3	2
B2	20221211	Cloudy	Moderate	Mid-Ebb	Surface	1	13:32	8.33	8.29	32.72	21.4	4.1	2
B2	20221211	Cloudy	Moderate	Mid-Ebb	Surface	1	13:32	8.36	8.27	32.8	21.4	4.3	2
B2	20221211	Cloudy	Moderate	Mid-Ebb	Bottom	4.7	13:31	8.32	8.29	32.8	21.45	3.9	3
B2	20221211	Cloudy	Moderate	Mid-Ebb	Bottom	4.7	13:31	8.39	8.29	32.67	21.48	4.3	2
B3	20221211	Cloudy	Moderate	Mid-Ebb	Surface	1	13:10	8.34	8.21	32.6	21.43	5.1	8
B3	20221211	Cloudy	Moderate	Mid-Ebb	Surface	1	13:10	8.27	8.27	32.72	21.46	5.5	5
B3	20221211	Cloudy	Moderate	Mid-Ebb	Bottom	4.1	13:09	8.33	8.24	32.67	21.42	5.9	4
B3	20221211	Cloudy	Moderate	Mid-Ebb	Bottom	4.1	13:09	8.36	8.25	32.73	21.43	5.6	5
B4	20221211	Cloudy	Moderate	Mid-Ebb	Surface	1	13:20	8.19	8.27	32.21	21.44	4.7	5
B4	20221211	Cloudy	Moderate	Mid-Ebb	Surface	1	13:20	8.24	8.32	32.12	21.41	4.8	3
B4	20221211	Cloudy	Moderate	Mid-Ebb	Bottom	3.8	13:19	8.23	8.3	32.17	21.43	5.2	7
B4	20221211	Cloudy	Moderate	Mid-Ebb	Bottom	3.8	13:19	8.19	8.28	32.31	21.34	4.8	6
C1A	20221211	Cloudy	Moderate	Mid-Ebb	Surface	1	12:58	8.37	8.24	32.21	21.37	5.8	2
C1A	20221211	Cloudy	Moderate	Mid-Ebb	Surface	1	12:58	8.27	8.29	32.28	21.47	5.7	2
C1A	20221211	Cloudy	Moderate	Mid-Ebb	Middle	5.5	12:57	8.26	8.28	32.15	21.46	6.4	5
C1A	20221211	Cloudy	Moderate	Mid-Ebb	Middle	5.5	12:57	8.28	8.22	32.23	21.5	6.9	3
C1A	20221211	Cloudy	Moderate	Mid-Ebb	Bottom	10	12:56	8.34	8.29	32.32	21.35	6.8	3
C1A	20221211	Cloudy	Moderate	Mid-Ebb	Bottom	10	12:56	8.42	8.26	32.13	21.37	6.6	5
C2A	20221211	Cloudy	Moderate	Mid-Ebb	Surface	1	12:58	8.84	8.27	32.76	21.35	5.2	3
C2A	20221211	Cloudy	Moderate	Mid-Ebb	Surface	1	12:58	8.8	8.26	32.95	21.47	5.3	4
C2A	20221211	Cloudy	Moderate	Mid-Ebb	Middle	5.75	12:57	8.79	8.21	32.77	21.35	5.2	4
C2A	20221211	Cloudy	Moderate	Mid-Ebb	Middle	5.75	12:57	8.87	8.22	32.98	21.52	5.1	2
C2A	20221211	Cloudy	Moderate	Mid-Ebb	Bottom	10.5	12:56	8.91	8.2	32.78	21.44	5.3	2
C2A	20221211	Cloudy	Moderate	Mid-Ebb	Bottom	10.5	12:56	8.91	8.29	32.93	21.45	5.4	3
CR1	20221211	Cloudy	Moderate	Mid-Ebb	Surface	1	14:18	8.31	8.24	32.17	21.47	4.9	2
CR1	20221211	Cloudy	Moderate	Mid-Ebb	Surface	1	14:18	8.26	8.31	32.25	21.52	4.6	4
CR1	20221211	Cloudy	Moderate	Mid-Ebb	Middle	6.8	14:17	8.35	8.33	32.27	21.4	5.3	4
CR1	20221211	Cloudy	Moderate	Mid-Ebb	Middle	6.8	14:17	8.31	8.3	32.25	21.47	5.7	3
CR1	20221211	Cloudy	Moderate	Mid-Ebb	Bottom	12.6	14:16	8.37	8.28	32.31	21.44	5.5	3
CR1	20221211	Cloudy	Moderate	Mid-Ebb	Bottom	12.6	14:16	8.25	8.29	32.17	21.52	5.8	3
CR2	20221211	Cloudy	Moderate	Mid-Ebb	Surface	1	14:04	8.3	8.22	32.51	21.45	4.7	2
CR2	20221211	Cloudy	Moderate	Mid-Ebb	Surface	1	14:04	8.26	8.33	32.4	21.44	4.1	2
CR2	20221211	Cloudy	Moderate	Mid-Ebb	Middle	5.9	14:03	8.31	8.26	32.33	21.53	4.9	6
CR2	20221211	Cloudy	Moderate	Mid-Ebb	Middle	5.9	14:03	8.26	8.3	32.41	21.4	4.7	9

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (℃)	Turbidty (NTU) Note 1	SS (mg/L)
CR2	20221211	Cloudy	Moderate	Mid-Ebb	Bottom	10.8	14:02	8.37	8.28	32.35	21.43	4.7	8
CR2	20221211	Cloudy	Moderate	Mid-Ebb	Bottom	10.8	14:02	8.36	8.23	32.53	21.47	5.0	7
F1A	20221211	Cloudy	Moderate	Mid-Ebb	Surface	1	13:47	8.35	8.31	32.02	21.38	4.7	4
F1A	20221211	Cloudy	Moderate	Mid-Ebb	Surface	1	13:47	8.36	8.22	32.01	21.5	4.4	3
F1A	20221211	Cloudy	Moderate	Mid-Ebb	Middle	4.55	13:46	8.36	8.28	31.84	21.5	4.2	6
F1A	20221211	Cloudy	Moderate	Mid-Ebb	Middle	4.55	13:46	8.36	8.21	31.87	21.53	4.2	5
F1A	20221211	Cloudy	Moderate	Mid-Ebb	Bottom	8.1	13:45	8.35	8.33	32.01	21.35	4.8	2
F1A	20221211	Cloudy	Moderate	Mid-Ebb	Bottom	8.1	13:45	8.37	8.21	31.83	21.49	5.1	3
H1	20221211	Cloudy	Moderate	Mid-Ebb	Surface	1	13:55	8.62	8.31	32.11	21.45	4.1	6
H1	20221211	Cloudy	Moderate	Mid-Ebb	Surface	1	13:55	8.61	8.32	32.15	21.39	4.4	7
H1	20221211	Cloudy	Moderate	Mid-Ebb	Middle	4.5	13:54	8.59	8.27	32.1	21.43	4.0	4
H1	20221211	Cloudy	Moderate	Mid-Ebb	Middle	4.5	13:54	8.54	8.26	32.17	21.38	4.3	4
H1	20221211	Cloudy	Moderate	Mid-Ebb	Bottom	8	13:53	8.55	8.29	32.04	21.44	5.0	2
H1	20221211	Cloudy	Moderate	Mid-Ebb	Bottom	8	13:53	8.63	8.28	32.06	21.44	4.7	2
M1	20221211	Cloudy	Moderate	Mid-Ebb	Surface	1	14:11	9.49	8.27	32.28	21.38	3.4	7
M1	20221211	Cloudy	Moderate	Mid-Ebb	Surface	1	14:11	9.51	8.3	32.32	21.38	3.7	7
M1	20221211	Cloudy	Moderate	Mid-Ebb	Middle	4.8	14:10	9.38	8.28	32.32	21.34	3.7	7
M1	20221211	Cloudy	Moderate	Mid-Ebb	Middle	4.8	14:10	9.51	8.31	32.15	21.36	4.1	8
M1	20221211	Cloudy	Moderate	Mid-Ebb	Bottom	8.6	14:09	9.5	8.31	32.29	21.38	3.9	8
M1	20221211	Cloudy	Moderate	Mid-Ebb	Bottom	8.6	14:09	9.44	8.27	32.3	21.49	3.7	8
B1	20221213	Cloudy	Moderate	Mid-Flood	Surface	1	10:54	9.21	8.3	33.31	21.78	3.7	8
B1	20221213	Cloudy	Moderate	Mid-Flood	Surface	1	10:54	9.11	8.35	33.22	21.73	3.7	9
B1	20221213	Cloudy	Moderate	Mid-Flood	Bottom	4.1	10:53	9.1	8.3	33.13	21.81	3.6	6
B1	20221213	Cloudy	Moderate	Mid-Flood	Bottom	4.1	10:53	9.22	8.31	33.23	21.84	3.9	5
B2	20221213	Cloudy	Moderate	Mid-Flood	Surface	1	11:10	9.31	8.3	33.38	21.35	2.9	5
B2	20221213	Cloudy	Moderate	Mid-Flood	Surface	1	11:10	9.29	8.34	33.37	21.38	2.8	5
B2	20221213	Cloudy	Moderate	Mid-Flood	Bottom	4	11:09	9.25	8.32	33.4	21.38	3.8	5
B2	20221213	Cloudy	Moderate	Mid-Flood	Bottom	4	11:09	9.25	8.33	33.5	21.36	3.4	6
B3	20221213	Cloudy	Moderate	Mid-Flood	Surface	1	11:41	8.34	8.35	33.01	21.82	5.1	5
B3	20221213	Cloudy	Moderate	Mid-Flood	Surface	1	11:41	8.39	8.36	32.98	21.75	4.7	8
B3	20221213	Cloudy	Moderate	Mid-Flood	Bottom	4.3	11:40	8.35	8.29	32.99	21.76	5.3	5
B3	20221213	Cloudy	Moderate	Mid-Flood	Bottom	4.3	11:40	8.34	8.31	33.08	21.84	5.5	5
B4	20221213	Cloudy	Moderate	Mid-Flood	Surface	1	11:31	8.55	8.27	34.15	21.68	5.3	4
B4	20221213	Cloudy	Moderate	Mid-Flood	Surface	1	11:31	8.61	8.32	34.23	21.6	4.7	6
B4	20221213	Cloudy	Moderate	Mid-Flood	Bottom	4.5	11:30	8.59	8.3	34.17	21.6	5.9	8
B4	20221213	Cloudy	Moderate	Mid-Flood	Bottom	4.5	11:30	8.71	8.3	34.03	21.59	5.5	5
C1A	20221213	Cloudy	Moderate	Mid-Flood	Surface	1	10:27	8.83	8.27	33.52	21.44	5.9	5
C1A	20221213	Cloudy	Moderate	Mid-Flood	Surface	1	10:27	8.73	8.33	33.59	21.39	5.6	7
C1A	20221213	Cloudy	Moderate	Mid-Flood	Middle	6	10:26	8.85	8.27	33.55	21.4	5.8	4
C1A	20221213	Cloudy	Moderate	Mid-Flood	Middle	6	10:26	8.67	8.29	33.5	21.47	5.7	6

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (℃)	Turbidty (NTU) Note 1	SS (mg/L)
C1A	20221213	Cloudy	Moderate	Mid-Flood	Bottom	11	10:25	8.74	8.28	33.4	21.46	6.4	10
C1A	20221213	Cloudy	Moderate	Mid-Flood	Bottom	11	10:25	8.78	8.33	33.42	21.45	6.5	8
C2A	20221213	Cloudy	Moderate	Mid-Flood	Surface	1	09:32	8.46	8.26	32.53	21.56	6.6	7
C2A	20221213	Cloudy	Moderate	Mid-Flood	Surface	1	09:32	8.39	8.3	32.47	21.44	6.3	7
C2A	20221213	Cloudy	Moderate	Mid-Flood	Middle	5.55	09:31	8.48	8.24	32.54	21.54	7.0	9
C2A	20221213	Cloudy	Moderate	Mid-Flood	Middle	5.55	09:31	8.41	8.26	32.39	21.48	6.3	9
C2A	20221213	Cloudy	Moderate	Mid-Flood	Bottom	10.1	09:30	8.5	8.23	32.34	21.45	7.2	7
C2A	20221213	Cloudy	Moderate	Mid-Flood	Bottom	10.1	09:30	8.46	8.25	32.43	21.52	6.9	8
CR1	20221213	Cloudy	Moderate	Mid-Flood	Surface	1	09:59	8.48	8.31	32.55	21.63	5.3	9
CR1	20221213	Cloudy	Moderate	Mid-Flood	Surface	1	09:59	8.49	8.32	32.53	21.54	4.7	8
CR1	20221213	Cloudy	Moderate	Mid-Flood	Middle	6.35	09:58	8.67	8.28	32.6	21.62	4.6	6
CR1	20221213	Cloudy	Moderate	Mid-Flood	Middle	6.35	09:58	8.56	8.31	32.59	21.59	5.1	6
CR1	20221213	Cloudy	Moderate	Mid-Flood	Bottom	11.7	09:57	8.66	8.29	32.54	21.54	5.6	11
CR1	20221213	Cloudy	Moderate	Mid-Flood	Bottom	11.7	09:57	8.6	8.3	32.63	21.62	4.9	11
CR2	20221213	Cloudy	Moderate	Mid-Flood	Surface	1	10:11	9.47	8.37	33.09	21.62	5.3	7
CR2	20221213	Cloudy	Moderate	Mid-Flood	Surface	1	10:11	9.41	8.39	33.03	21.59	4.8	9
CR2	20221213	Cloudy	Moderate	Mid-Flood	Middle	5.8	10:10	9.33	8.38	32.98	21.6	5.5	8
CR2	20221213	Cloudy	Moderate	Mid-Flood	Middle	5.8	10:10	9.54	8.39	33.1	21.7	5.5	10
CR2	20221213	Cloudy	Moderate	Mid-Flood	Bottom	10.6	10:09	9.35	8.31	33.11	21.62	6.1	8
CR2	20221213	Cloudy	Moderate	Mid-Flood	Bottom	10.6	10:09	9.52	8.34	33.05	21.64	5.2	7
F1A	20221213	Cloudy	Moderate	Mid-Flood	Surface	1	10:54	9.48	8.29	32.81	21.37	4.2	6
F1A	20221213	Cloudy	Moderate	Mid-Flood	Surface	1	10:54	9.51	8.35	32.97	21.33	3.9	5
F1A	20221213	Cloudy	Moderate	Mid-Flood	Middle	3.95	10:53	9.61	8.33	32.86	21.35	4.1	12
F1A	20221213	Cloudy	Moderate	Mid-Flood	Middle	3.95	10:53	9.51	8.34	32.97	21.33	4.7	13
F1A	20221213	Cloudy	Moderate	Mid-Flood	Bottom	6.9	10:52	9.6	8.29	32.93	21.36	4.9	8
F1A	20221213	Cloudy	Moderate	Mid-Flood	Bottom	6.9	10:52	9.52	8.33	32.78	21.41	5.1	9
H1	20221213	Cloudy	Moderate	Mid-Flood	Surface	1	11:34	8.44	8.3	33.36	21.48	4.1	7
H1	20221213	Cloudy	Moderate	Mid-Flood	Surface	1	11:34	8.54	8.35	33.32	21.54	3.6	4
H1	20221213	Cloudy	Moderate	Mid-Flood	Middle	4.1	11:33	8.61	8.27	33.27	21.4	4.3	6
H1	20221213	Cloudy	Moderate	Mid-Flood	Middle	4.1	11:33	8.44	8.35	33.34	21.46	4.1	9
H1	20221213	Cloudy	Moderate	Mid-Flood	Bottom	7.2	11:32	8.6	8.27	33.28	21.54	4.6	5
H1	20221213	Cloudy	Moderate	Mid-Flood	Bottom	7.2	11:32	8.51	8.28	33.37	21.45	4.7	6
M1	20221213	Cloudy	Moderate	Mid-Flood	Surface	1	10:29	9.48	8.34	33.76	21.52	5.1	9
M1	20221213	Cloudy	Moderate	Mid-Flood	Surface	1	10:29	9.57	8.35	33.71	21.56	5.0	7
M1	20221213	Cloudy	Moderate	Mid-Flood	Middle	3.9	10:28	9.64	8.27	33.82	21.52	5.5	7
M1	20221213	Cloudy	Moderate	Mid-Flood	Middle	3.9	10:28	9.52	8.3	33.9	21.55	5.2	7
M1	20221213	Cloudy	Moderate	Mid-Flood	Bottom	6.8	10:27	9.6	8.29	33.83	21.56	5.1	8
M1	20221213	Cloudy	Moderate	Mid-Flood	Bottom	6.8	10:27	9.56	8.35	33.8	21.53	5.4	5
B1	20221213	Cloudy	Moderate	Mid-Ebb	Surface	1	16:37	9.55	8.32	33.77	21.5	3.0	7
B1	20221213	Cloudy	Moderate	Mid-Ebb	Surface	1	16:37	9.7	8.25	33.82	21.37	3.1	7

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (℃)	Turbidty (NTU) Note 1	SS (mg/L)
B1	20221213	Cloudy	Moderate	Mid-Ebb	Bottom	3.5	16:36	9.52	8.26	33.73	21.51	3.1	7
B1	20221213	Cloudy	Moderate	Mid-Ebb	Bottom	3.5	16:36	9.65	8.32	33.8	21.47	3.3	6
B2	20221213	Cloudy	Moderate	Mid-Ebb	Surface	1	16:22	8.97	8.24	32.59	21.52	3.3	7
B2	20221213	Cloudy	Moderate	Mid-Ebb	Surface	1	16:22	8.96	8.22	32.6	21.61	3.4	6
B2	20221213	Cloudy	Moderate	Mid-Ebb	Bottom	4.2	16:21	8.81	8.25	32.56	21.56	3.5	8
B2	20221213	Cloudy	Moderate	Mid-Ebb	Bottom	4.2	16:21	8.85	8.24	32.62	21.52	3.8	8
B3	20221213	Cloudy	Moderate	Mid-Ebb	Surface	1	14:19	8.29	8.23	32.36	21.82	5.0	8
B3	20221213	Cloudy	Moderate	Mid-Ebb	Surface	1	14:19	8.4	8.22	32.39	21.84	5.5	6
B3	20221213	Cloudy	Moderate	Mid-Ebb	Bottom	4.1	14:18	8.4	8.23	32.31	21.81	5.4	5
B3	20221213	Cloudy	Moderate	Mid-Ebb	Bottom	4.1	14:18	8.42	8.21	32.21	21.84	6.1	5
B4	20221213	Cloudy	Moderate	Mid-Ebb	Surface	1	14:29	9.33	8.24	33.14	21.88	5.2	6
B4	20221213	Cloudy	Moderate	Mid-Ebb	Surface	1	14:29	9.28	8.24	33.05	21.76	5.3	6
B4	20221213	Cloudy	Moderate	Mid-Ebb	Bottom	3.1	14:28	9.17	8.19	33.11	21.81	6.2	6
B4	20221213	Cloudy	Moderate	Mid-Ebb	Bottom	3.1	14:28	9.33	8.24	33.07	21.78	5.6	8
C1A	20221213	Cloudy	Moderate	Mid-Ebb	Surface	1	14:08	8.43	8.24	33.37	21.88	6.5	6
C1A	20221213	Cloudy	Moderate	Mid-Ebb	Surface	1	14:08	8.52	8.24	33.56	21.86	6.5	5
C1A	20221213	Cloudy	Moderate	Mid-Ebb	Middle	5.3	14:07	8.46	8.19	33.43	21.84	6.6	7
C1A	20221213	Cloudy	Moderate	Mid-Ebb	Middle	5.3	14:07	8.4	8.26	33.51	21.73	6.8	6
C1A	20221213	Cloudy	Moderate	Mid-Ebb	Bottom	9.6	14:06	8.43	8.25	33.56	21.73	7.1	9
C1A	20221213	Cloudy	Moderate	Mid-Ebb	Bottom	9.6	14:06	8.41	8.25	33.4	21.76	6.9	7
C2A	20221213	Cloudy	Moderate	Mid-Ebb	Surface	1	15:01	8.54	8.22	33.06	21.71	6.0	6
C2A	20221213	Cloudy	Moderate	Mid-Ebb	Surface	1	15:01	8.54	8.27	33.02	21.68	6.2	7
C2A	20221213	Cloudy	Moderate	Mid-Ebb	Middle	5.85	15:00	8.5	8.27	33.05	21.71	5.5	9
C2A	20221213	Cloudy	Moderate	Mid-Ebb	Middle	5.85	15:00	8.42	8.22	33.06	21.78	5.7	6
C2A	20221213	Cloudy	Moderate	Mid-Ebb	Bottom	10.7	14:59	8.52	8.24	33.1	21.82	6.7	8
C2A	20221213	Cloudy	Moderate	Mid-Ebb	Bottom	10.7	14:59	8.55	8.23	32.98	21.75	5.8	9
CR1	20221213	Cloudy	Moderate	Mid-Ebb	Surface	1	14:43	8.51	8.32	32.96	21.84	5.0	4
CR1	20221213	Cloudy	Moderate	Mid-Ebb	Surface	1	14:43	8.5	8.28	33.07	21.83	5.0	6
CR1	20221213	Cloudy	Moderate	Mid-Ebb	Middle	6.7	14:42	8.39	8.29	32.91	21.86	5.7	8
CR1	20221213	Cloudy	Moderate	Mid-Ebb	Middle	6.7	14:42	8.34	8.29	33.02	21.88	5.3	5
CR1	20221213	Cloudy	Moderate	Mid-Ebb	Bottom	12.4	14:41	8.51	8.29	32.89	21.8	5.3	6
CR1	20221213	Cloudy	Moderate	Mid-Ebb	Bottom	12.4	14:41	8.48	8.32	33.06	21.86	5.5	8
CR2	20221213	Cloudy	Moderate	Mid-Ebb	Surface	1	14:31	9.54	8.24	32.83	21.68	5.4	9
CR2	20221213	Cloudy	Moderate	Mid-Ebb	Surface	1	14:31	9.54	8.21	32.88	21.72	5.9	7
CR2	20221213	Cloudy	Moderate	Mid-Ebb	Middle	5.8	14:30	9.41	8.24	32.8	21.76	6.1	6
CR2	20221213	Cloudy	Moderate	Mid-Ebb	Middle	5.8	14:30	9.43	8.25	32.87	21.62	5.8	6
CR2	20221213	Cloudy	Moderate	Mid-Ebb	Bottom	10.6	14:29	9.58	8.22	32.78	21.66	6.3	5
CR2	20221213	Cloudy	Moderate	Mid-Ebb	Bottom	10.6	14:29	9.5	8.23	32.79	21.63	5.9	5
F1A	20221213	Cloudy	Moderate	Mid-Ebb	Surface	1	14:55	9.48	8.27	32.69	21.53	4.2	8
F1A	20221213	Cloudy	Moderate	Mid-Ebb	Surface	1	14:55	9.39	8.27	32.7	21.58	4.1	7

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pН	Sal (ppt)	Temp (°C)	Turbidty (NTU) Note 1	SS (mg/L)
F1A	20221213	Cloudy	Moderate	Mid-Ebb	Middle	4.1	14:54	9.42	8.27	32.82	21.58	4.5	7
F1A	20221213	Cloudy	Moderate	Mid-Ebb	Middle	4.1	14:54	9.43	8.32	32.76	21.53	4.7	7
F1A	20221213	Cloudy	Moderate	Mid-Ebb	Bottom	7.2	14:53	9.51	8.32	32.85	21.52	5.2	7
F1A	20221213	Cloudy	Moderate	Mid-Ebb	Bottom	7.2	14:53	9.4	8.27	32.79	21.53	4.6	4
H1	20221213	Cloudy	Moderate	Mid-Ebb	Surface	1	14:21	8.51	8.3	32.23	21.46	5.2	8
H1	20221213	Cloudy	Moderate	Mid-Ebb	Surface	1	14:21	8.38	8.29	32.37	21.52	5.6	10
H1	20221213	Cloudy	Moderate	Mid-Ebb	Middle	4.2	14:20	8.48	8.32	32.22	21.51	5.5	7
H1	20221213	Cloudy	Moderate	Mid-Ebb	Middle	4.2	14:20	8.43	8.27	32.34	21.44	5.8	5
H1	20221213	Cloudy	Moderate	Mid-Ebb	Bottom	7.4	14:19	8.36	8.3	32.29	21.39	5.4	7
H1	20221213	Cloudy	Moderate	Mid-Ebb	Bottom	7.4	14:19	8.36	8.33	32.27	21.38	5.5	6
M1	20221213	Cloudy	Moderate	Mid-Ebb	Surface	1	15:19	8.74	8.33	33.51	21.72	4.3	6
M1	20221213	Cloudy	Moderate	Mid-Ebb	Surface	1	15:19	8.64	8.3	33.5	21.67	4.7	8
M1	20221213	Cloudy	Moderate	Mid-Ebb	Middle	4.5	15:18	8.76	8.28	33.46	21.68	5.1	7
M1	20221213	Cloudy	Moderate	Mid-Ebb	Middle	4.5	15:18	8.59	8.26	33.46	21.65	5.2	7
M1	20221213	Cloudy	Moderate	Mid-Ebb	Bottom	8	15:17	8.8	8.29	33.57	21.68	5.5	6
M1	20221213	Cloudy	Moderate	Mid-Ebb	Bottom	8	15:17	8.56	8.33	33.63	21.71	5.7	7
B1	20221216	Cloudy	Moderate	Mid-Ebb	Surface	1	09:56	8.21	8.24	32.56	20.4	3.0	5
B1	20221216	Cloudy	Moderate	Mid-Ebb	Surface	1	09:56	8.33	8.29	32.61	20.24	3.3	7
B1	20221216	Cloudy	Moderate	Mid-Ebb	Bottom	3.6	09:55	8.31	8.25	32.7	20.29	3.3	8
B1	20221216	Cloudy	Moderate	Mid-Ebb	Bottom	3.6	09:55	8.24	8.24	32.67	20.42	3.3	5
B2	20221216	Cloudy	Moderate	Mid-Ebb	Surface	1	09:41	8.51	8.26	32.66	20.15	3.4	7
B2	20221216	Cloudy	Moderate	Mid-Ebb	Surface	1	09:41	8.51	8.29	32.8	20.08	3.3	7
B2	20221216	Cloudy	Moderate	Mid-Ebb	Bottom	4.6	09:40	8.56	8.31	32.75	20.14	3.6	9
B2	20221216	Cloudy	Moderate	Mid-Ebb	Bottom	4.6	09:40	8.58	8.34	32.75	20.11	3.5	6
B3	20221216	Cloudy	Moderate	Mid-Ebb	Surface	1	10:08	8.46	8.3	31.82	20.17	3.7	6
B3	20221216	Cloudy	Moderate	Mid-Ebb	Surface	1	10:08	8.47	8.32	31.88	20.03	4.0	7
B3	20221216	Cloudy	Moderate	Mid-Ebb	Bottom	4.2	10:07	8.56	8.24	31.83	20.13	4.2	7
B3	20221216	Cloudy	Moderate	Mid-Ebb	Bottom	4.2	10:07	8.53	8.27	31.78	20.14	3.9	7
B4	20221216	Cloudy	Moderate	Mid-Ebb	Surface	1	09:57	8.34	8.3	32.7	20.45	3.8	8
B4	20221216	Cloudy	Moderate	Mid-Ebb	Surface	1	09:57	8.35	8.31	32.56	20.32	4.0	8
B4	20221216	Cloudy	Moderate	Mid-Ebb	Bottom	3.5	09:56	8.34	8.25	32.64	20.26	4.2	6
B4	20221216	Cloudy	Moderate	Mid-Ebb	Bottom	3.5	09:56	8.37	8.26	32.65	20.42	3.9	8
C1A	20221216	Cloudy	Moderate	Mid-Ebb	Surface	1	08:02	9.22	8.27	33.38	20.1	5.7	4
C1A	20221216	Cloudy	Moderate	Mid-Ebb	Surface	1	08:02	9.22	8.3	33.16	20.04	5.8	6
C1A	20221216	Cloudy	Moderate	Mid-Ebb	Middle	4.7	08:01	9.32	8.28	33.17	20.1	5.9	4
C1A	20221216	Cloudy	Moderate	Mid-Ebb	Middle	4.7	08:01	9.28	8.3	33.34	20.12	5.8	7
C1A	20221216	Cloudy	Moderate	Mid-Ebb	Bottom	8.4	08:00	9.3	8.22	33.23	20.03	6.0	12
C1A	20221216	Cloudy	Moderate	Mid-Ebb	Bottom	8.4	08:00	9.31	8.24	33.37	20.1	5.2	11
C2A	20221216	Cloudy	Moderate	Mid-Ebb	Surface	1	08:59	8.76	8.37	33.15	20.22	4.4	11
C2A	20221216	Cloudy	Moderate	Mid-Ebb	Surface	1	08:59	8.76	8.35	33.11	20.26	4.9	10

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (℃)	Turbidty (NTU) Note 1	SS (mg/L)
C2A	20221216	Cloudy	Moderate	Mid-Ebb	Middle	5.9	08:58	8.72	8.36	33.27	20.17	4.7	5
C2A	20221216	Cloudy	Moderate	Mid-Ebb	Middle	5.9	08:58	8.75	8.34	33.3	20.14	4.6	7
C2A	20221216	Cloudy	Moderate	Mid-Ebb	Bottom	10.8	08:57	8.81	8.36	33.27	20.24	4.5	7
C2A	20221216	Cloudy	Moderate	Mid-Ebb	Bottom	10.8	08:57	8.77	8.34	33.29	20.28	4.8	7
CR1	20221216	Cloudy	Moderate	Mid-Ebb	Surface	1	08:39	8.47	8.35	32.76	20.03	3.7	5
CR1	20221216	Cloudy	Moderate	Mid-Ebb	Surface	1	08:39	8.36	8.34	32.95	20.1	3.8	4
CR1	20221216	Cloudy	Moderate	Mid-Ebb	Middle	6.75	08:38	8.44	8.28	32.84	20.12	4.3	5
CR1	20221216	Cloudy	Moderate	Mid-Ebb	Middle	6.75	08:38	8.47	8.34	32.92	20.23	4.0	7
CR1	20221216	Cloudy	Moderate	Mid-Ebb	Bottom	12.5	08:37	8.4	8.34	32.82	20.17	4.0	4
CR1	20221216	Cloudy	Moderate	Mid-Ebb	Bottom	12.5	08:37	8.46	8.34	32.95	20.2	3.8	6
CR2	20221216	Cloudy	Moderate	Mid-Ebb	Surface	1	08:26	8.68	8.3	32.21	20.01	3.9	8
CR2	20221216	Cloudy	Moderate	Mid-Ebb	Surface	1	08:26	8.71	8.35	32.08	19.96	4.3	6
CR2	20221216	Cloudy	Moderate	Mid-Ebb	Middle	5.55	08:25	8.69	8.24	32.21	19.94	4.1	6
CR2	20221216	Cloudy	Moderate	Mid-Ebb	Middle	5.55	08:25	8.7	8.3	32.03	20.02	4.3	4
CR2	20221216	Cloudy	Moderate	Mid-Ebb	Bottom	10.1	08:24	8.66	8.24	32.03	19.99	4.6	8
CR2	20221216	Cloudy	Moderate	Mid-Ebb	Bottom	10.1	08:24	8.74	8.3	32.02	19.98	4.4	7
F1A	20221216	Cloudy	Moderate	Mid-Ebb	Surface	1	09:22	9.33	8.26	32.09	20.3	4.0	8
F1A	20221216	Cloudy	Moderate	Mid-Ebb	Surface	1	09:22	9.32	8.28	31.93	20.3	3.7	7
F1A	20221216	Cloudy	Moderate	Mid-Ebb	Middle	4.45	09:21	9.24	8.29	31.92	20.33	4.4	8
F1A	20221216	Cloudy	Moderate	Mid-Ebb	Middle	4.45	09:21	9.29	8.38	31.96	20.35	3.9	8
F1A	20221216	Cloudy	Moderate	Mid-Ebb	Bottom	7.9	09:20	9.28	8.27	31.95	20.32	5.0	6
F1A	20221216	Cloudy	Moderate	Mid-Ebb	Bottom	7.9	09:20	9.32	8.3	32.01	20.26	4.2	5
H1	20221216	Cloudy	Moderate	Mid-Ebb	Surface	1	08:14	8.78	8.3	32.5	20.21	4.2	9
H1	20221216	Cloudy	Moderate	Mid-Ebb	Surface	1	08:14	8.79	8.34	32.52	20.22	4.4	8
H1	20221216	Cloudy	Moderate	Mid-Ebb	Middle	3.9	08:13	8.75	8.32	32.38	20.11	4.3	7
H1	20221216	Cloudy	Moderate	Mid-Ebb	Middle	3.9	08:13	8.82	8.33	32.52	20.1	4.4	5
H1	20221216	Cloudy	Moderate	Mid-Ebb	Bottom	6.8	08:12	8.84	8.27	32.44	20.05	3.9	8
H1	20221216	Cloudy	Moderate	Mid-Ebb	Bottom	6.8	08:12	8.84	8.34	32.53	20.03	4.6	9
M1	20221216	Cloudy	Moderate	Mid-Ebb	Surface	1	08:59	8.45	8.31	32.48	20.01	3.7	5
M1	20221216	Cloudy	Moderate	Mid-Ebb	Surface	1	08:59	8.36	8.24	32.6	19.95	3.5	8
M1	20221216	Cloudy	Moderate	Mid-Ebb	Middle	4.45	08:58	8.46	8.24	32.59	20	3.3	5
M1	20221216	Cloudy	Moderate	Mid-Ebb	Middle	4.45	08:58	8.45	8.24	32.47	19.98	3.7	5
M1	20221216	Cloudy	Moderate	Mid-Ebb	Bottom	7.9	08:57	8.42	8.22	32.46	19.89	4.1	5
M1	20221216	Cloudy	Moderate	Mid-Ebb	Bottom	7.9	08:57	8.36	8.25	32.51	19.97	3.6	7
B1	20221216	Cloudy	Moderate	Mid-Flood	Surface	1	12:20	8.79	8.31	33.53	20.09	3.1	4
B1	20221216	Cloudy	Moderate	Mid-Flood	Surface	1	12:20	8.77	8.31	33.43	20.19	2.6	4
B1	20221216	Cloudy	Moderate	Mid-Flood	Bottom	4.2	12:19	8.7	8.27	33.48	20.03	3.7	4
B1	20221216	Cloudy	Moderate	Mid-Flood	Bottom	4.2	12:19	8.73	8.28	33.43	20.14	3.2	6
B2	20221216	Cloudy	Moderate	Mid-Flood	Surface	1	12:35	9.48	8.32	33.3	20.2	3.1	5
B2	20221216	Cloudy	Moderate	Mid-Flood	Surface	1	12:35	9.47	8.3	33.28	20.33	2.9	5

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pН	Sal (ppt)	Temp (°C)	Turbidty (NTU) Note 1	SS (mg/L)
B2	20221216	Cloudy	Moderate	Mid-Flood	Bottom	4.1	12:34	9.36	8.25	33.37	20.2	3.2	5
B2	20221216	Cloudy	Moderate	Mid-Flood	Bottom	4.1	12:34	9.37	8.25	33.46	20.19	3.4	4
B3	20221216	Cloudy	Moderate	Mid-Flood	Surface	1	12:09	8.35	8.25	33.04	20.17	3.2	3
B3	20221216	Cloudy	Moderate	Mid-Flood	Surface	1	12:09	8.41	8.25	33.11	20.1	3.6	6
B3	20221216	Cloudy	Moderate	Mid-Flood	Bottom	4.1	12:08	8.33	8.32	32.98	20.16	3.8	7
B3	20221216	Cloudy	Moderate	Mid-Flood	Bottom	4.1	12:08	8.35	8.21	33.04	20.09	3.6	4
B4	20221216	Cloudy	Moderate	Mid-Flood	Surface	1	12:19	8.59	8.34	32.46	19.96	3.5	4
B4	20221216	Cloudy	Moderate	Mid-Flood	Surface	1	12:19	8.6	8.35	32.47	20.03	3.6	5
B4	20221216	Cloudy	Moderate	Mid-Flood	Bottom	3.9	12:18	8.66	8.3	32.37	20.11	4.0	5
B4	20221216	Cloudy	Moderate	Mid-Flood	Bottom	3.9	12:18	8.65	8.34	32.47	19.93	4.1	6
C1A	20221216	Cloudy	Moderate	Mid-Flood	Surface	1	11:58	8.66	8.3	33.32	20.23	4.3	10
C1A	20221216	Cloudy	Moderate	Mid-Flood	Surface	1	11:58	8.63	8.21	33.42	20.21	4.1	10
C1A	20221216	Cloudy	Moderate	Mid-Flood	Middle	5.1	11:57	8.67	8.28	33.37	20.2	4.1	7
C1A	20221216	Cloudy	Moderate	Mid-Flood	Middle	5.1	11:57	8.59	8.22	33.42	20.24	4.6	6
C1A	20221216	Cloudy	Moderate	Mid-Flood	Bottom	9.2	11:56	8.58	8.3	33.32	20.4	4.7	4
C1A	20221216	Cloudy	Moderate	Mid-Flood	Bottom	9.2	11:56	8.67	8.32	33.28	20.28	4.5	6
C2A	20221216	Cloudy	Moderate	Mid-Flood	Surface	1	11:58	9.33	8.21	33.58	20.1	5.0	2
C2A	20221216	Cloudy	Moderate	Mid-Flood	Surface	1	11:58	9.33	8.31	33.63	20.19	4.9	3
C2A	20221216	Cloudy	Moderate	Mid-Flood	Middle	5.6	11:57	9.39	8.23	33.65	20.14	5.2	7
C2A	20221216	Cloudy	Moderate	Mid-Flood	Middle	5.6	11:57	9.34	8.29	33.53	20.13	5.2	8
C2A	20221216	Cloudy	Moderate	Mid-Flood	Bottom	10.2	11:56	9.33	8.32	33.58	20.14	5.5	5
C2A	20221216	Cloudy	Moderate	Mid-Flood	Bottom	10.2	11:56	9.35	8.22	33.49	20.02	5.8	5
CR1	20221216	Cloudy	Moderate	Mid-Flood	Surface	1	13:30	8.71	8.3	33.04	20.4	3.8	8
CR1	20221216	Cloudy	Moderate	Mid-Flood	Surface	1	13:30	8.65	8.34	32.92	20.33	3.5	9
CR1	20221216	Cloudy	Moderate	Mid-Flood	Middle	6.35	13:29	8.63	8.3	32.95	20.36	4.1	10
CR1	20221216	Cloudy	Moderate	Mid-Flood	Middle	6.35	13:29	8.66	8.32	32.88	20.33	3.7	12
CR1	20221216	Cloudy	Moderate	Mid-Flood	Bottom	11.7	13:28	8.62	8.31	33.01	20.44	3.9	8
CR1	20221216	Cloudy	Moderate	Mid-Flood	Bottom	11.7	13:28	8.62	8.32	32.88	20.5	4.0	5
CR2	20221216	Cloudy	Moderate	Mid-Flood	Surface	1	13:15	8.52	8.3	32.51	20.27	3.9	6
CR2	20221216	Cloudy	Moderate	Mid-Flood	Surface	1	13:15	8.58	8.35	32.5	20.3	3.9	7
CR2	20221216	Cloudy	Moderate	Mid-Flood	Middle	5.7	13:14	8.47	8.29	32.53	20.47	4.3	6
CR2	20221216	Cloudy	Moderate	Mid-Flood	Middle	5.7	13:14	8.46	8.32	32.53	20.27	4.0	6
CR2	20221216	Cloudy	Moderate	Mid-Flood	Bottom	10.4	13:13	8.45	8.26	32.43	20.36	4.6	8
CR2	20221210	Cloudy	Moderate	Mid-Flood	Bottom	10.4	13:13	8.58	8.32	32.46	20.29	4.3	8
F1A	20221216	Cloudy	Moderate	Mid-Flood	Surface	1	12:45	8.46	8.32	32.62	20	3.8	7
F1A	20221216	Cloudy	Moderate	Mid-Flood	Surface	1	12:45	8.44	8.27	32.68	19.98	3.7	7
F1A	20221210	Cloudy	Moderate	Mid-Flood	Middle	4.1	12:44	8.55	8.31	32.65	20.11	3.5	4
F1A	20221210	Cloudy	Moderate	Mid-Flood	Middle	4.1	12:44	8.53	8.33	32.61	20.11	3.6	6
F1A	20221216	Cloudy	Moderate	Mid-Flood	Bottom	7.2	12:43	8.45	8.3	32.74	20.11	4.2	5
F1A	20221210	Cloudy	Moderate	Mid-Flood	Bottom	7.2	12:43	8.56	8.24	32.79	20.16	3.8	7

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (℃)	Turbidty (NTU) Note 1	SS (mg/L)
H1	20221216	Cloudy	Moderate	Mid-Flood	Surface	1	13:02	9.31	8.29	32.66	20.51	3.7	4
H1	20221216	Cloudy	Moderate	Mid-Flood	Surface	1	13:02	9.25	8.3	32.63	20.49	3.5	4
H1	20221216	Cloudy	Moderate	Mid-Flood	Middle	4.2	13:01	9.21	8.3	32.75	20.52	3.5	5
H1	20221216	Cloudy	Moderate	Mid-Flood	Middle	4.2	13:01	9.27	8.3	32.71	20.41	3.5	5
H1	20221216	Cloudy	Moderate	Mid-Flood	Bottom	7.4	13:00	9.21	8.3	32.67	20.4	3.5	4
H1	20221216	Cloudy	Moderate	Mid-Flood	Bottom	7.4	13:00	9.33	8.31	32.64	20.39	3.9	2
M1	20221216	Cloudy	Moderate	Mid-Flood	Surface	1	13:10	8.68	8.3	32.88	20.37	3.1	5
M1	20221216	Cloudy	Moderate	Mid-Flood	Surface	1	13:10	8.79	8.33	32.82	20.52	3.2	4
M1	20221216	Cloudy	Moderate	Mid-Flood	Middle	4.35	13:09	8.68	8.31	32.98	20.4	3.5	5
M1	20221216	Cloudy	Moderate	Mid-Flood	Middle	4.35	13:09	8.74	8.33	32.84	20.55	3.3	7
M1	20221216	Cloudy	Moderate	Mid-Flood	Bottom	7.7	13:08	8.77	8.28	32.94	20.48	3.7	7
M1	20221216	Cloudy	Moderate	Mid-Flood	Bottom	7.7	13:08	8.73	8.32	32.9	20.45	3.9	9
B1	20221219	Cloudy	Moderate	Mid-Ebb	Surface	1	08:49	9.03	8.27	32.32	20.1	3.0	5
B1	20221219	Cloudy	Moderate	Mid-Ebb	Surface	1	08:49	9.16	8.32	32.31	20.27	3.1	6
B1	20221219	Cloudy	Moderate	Mid-Ebb	Bottom	3.5	08:48	9	8.31	32.35	20.23	3.9	11
B1	20221219	Cloudy	Moderate	Mid-Ebb	Bottom	3.5	08:48	9.04	8.31	32.26	20.17	3.9	10
B2	20221219	Cloudy	Moderate	Mid-Ebb	Surface	1	09:06	8.24	8.32	31.48	20.21	2.9	6
B2	20221219	Cloudy	Moderate	Mid-Ebb	Surface	1	09:06	8.3	8.33	31.54	20.32	3.3	8
B2	20221219	Cloudy	Moderate	Mid-Ebb	Bottom	4.2	09:05	8.34	8.31	31.44	20.31	3.5	6
B2	20221219	Cloudy	Moderate	Mid-Ebb	Bottom	4.2	09:05	8.3	8.32	31.49	20.22	3.4	5
B3	20221219	Cloudy	Moderate	Mid-Ebb	Surface	1	10:11	8.82	8.33	31.97	20.32	4.7	12
B3	20221219	Cloudy	Moderate	Mid-Ebb	Surface	1	10:11	8.85	8.3	31.94	20.36	4.8	14
B3	20221219	Cloudy	Moderate	Mid-Ebb	Bottom	4.2	10:10	8.83	8.32	31.88	20.18	4.9	8
B3	20221219	Cloudy	Moderate	Mid-Ebb	Bottom	4.2	10:10	8.86	8.32	32.02	20.36	5.4	10
B4	20221219	Cloudy	Moderate	Mid-Ebb	Surface	1	10:01	8.84	8.33	31.02	20.22	4.2	29
B4	20221219	Cloudy	Moderate	Mid-Ebb	Surface	1	10:01	8.93	8.32	31.1	20.29	4.0	28
B4	20221219	Cloudy	Moderate	Mid-Ebb	Bottom	3.2	10:00	8.89	8.3	31.08	20.19	4.7	12
B4	20221219	Cloudy	Moderate	Mid-Ebb	Bottom	3.2	10:00	8.92	8.3	30.97	20.26	4.6	14
C1A	20221219	Cloudy	Moderate	Mid-Ebb	Surface	1	08:23	8.23	8.3	32.59	20.39	4.9	7
C1A	20221219	Cloudy	Moderate	Mid-Ebb	Surface	1	08:23	8.32	8.33	32.6	20.3	4.9	7
C1A	20221219	Cloudy	Moderate	Mid-Ebb	Middle	4.95	08:22	8.31	8.28	32.49	20.4	5.4	7
C1A	20221219	Cloudy	Moderate	Mid-Ebb	Middle	4.95	08:22	8.19	8.3	32.54	20.24	5.6	7
C1A	20221219	Cloudy	Moderate	Mid-Ebb	Bottom	8.9	08:21	8.19	8.32	32.55	20.33	5.9	6
C1A	20221219	Cloudy	Moderate	Mid-Ebb	Bottom	8.9	08:21	8.31	8.32	32.47	20.44	6.2	7
C2A	20221219	Cloudy	Moderate	Mid-Ebb	Surface	1	10:18	8.36	8.3	32.08	19.96	4.8	6
C2A	20221219	Cloudy	Moderate	Mid-Ebb	Surface	1	10:18	8.4	8.32	31.93	20.12	5.1	6
C2A	20221219	Cloudy	Moderate	Mid-Ebb	Middle	5.75	10:17	8.23	8.27	32.03	19.97	4.6	7
C2A	20221219	Cloudy	Moderate	Mid-Ebb	Middle	5.75	10:17	8.27	8.3	31.98	20.08	4.8	9
C2A	20221219	Cloudy	Moderate	Mid-Ebb	Bottom	10.5	10:16	8.43	8.29	31.96	20.03	5.1	8
C2A	20221219	Cloudy	Moderate	Mid-Ebb	Bottom	10.5	10:16	8.26	8.31	32	20.15	4.9	13

Turbidty (NTU) Date SS (mg/L) Location Weather Sea Condition Tidal Water Level Depth (m) DO (mg/L) pН Temp (°C) Time Sal (ppt) (YYYYMMDD) Note 1 CR1 20221219 Moderate Mid-Ebb 09:59 9.13 8.28 32.25 20.08 4.6 Cloudy Surface 1 6 CR1 20221219 Cloudy Moderate Mid-Ebb Surface 1 09:59 9.2 8.3 32.37 20.09 4.7 4 CR1 20221219 Cloudy Moderate Mid-Ebb Middle 6.3 09:58 9.13 8.24 32.22 20.14 4.2 7 7 CR1 20221219 Cloudy Moderate Mid-Ebb Middle 6.3 09:58 9.04 8.27 32.24 20.07 3.9 CR1 20221219 Moderate Mid-Ebb 09:57 9.05 8.24 32.27 20.18 4.4 8 Cloudy Bottom 11.6 CR1 20221219 32.34 20.25 4.6 9 Cloudy Moderate Mid-Ebb Bottom 11.6 09:57 9.16 8.24 20221219 20.52 4.0 6 CR2 Moderate Mid-Ebb Surface 1 09:45 8.59 8.27 32.72 Cloudy 8 CR2 20221219 Moderate Mid-Ebb 1 09:45 8.69 8.29 32.66 20.44 4.1 Cloudy Surface 5 CR2 20221219 5.65 20.48 4.0 Moderate Mid-Ebb Middle 09:44 8.58 8.27 32.71 Cloudy 5 CR2 20221219 Moderate Mid-Ebb 5.65 09:44 8.59 8.29 32.68 20.52 4.0 Cloudy Middle 4 CR2 20221219 10.3 8.27 32.68 20.49 4.0 Cloudy Moderate Mid-Ebb Bottom 09:43 8.67 6 CR2 20221219 Cloudy Moderate Mid-Ebb Bottom 10.3 09:43 8.52 8.32 32.62 20.5 4.2 7 F1A 20221219 Moderate Mid-Ebb 09:27 8.42 8.33 31.05 20.25 4.7 Cloudy Surface 1 4.8 7 F1A 20221219 Cloudy Moderate Mid-Ebb Surface 1 09:27 8.36 8.34 31.12 20.23 4.8 20221219 Moderate 09:26 8.5 31.11 20.23 8 F1A Cloudy Mid-Ebb Middle 4.1 8.31 7 F1A 20221219 Cloudy Moderate Mid-Ebb Middle 4.1 09:26 8.53 8.33 31.03 20.26 4.8 F1A 20221219 Cloudy Moderate Mid-Ebb Bottom 7.2 09:25 8.45 8.34 31.02 20.12 5.1 8 F1A 20221219 Moderate Mid-Ebb 7.2 09:25 8.52 8.3 30.99 20.13 5.2 8 Cloudy Bottom H1 8.85 8.23 20.4 4.0 28 20221219 Cloudy Moderate Mid-Ebb Surface 1 09:31 31.5 3.7 32 H1 20221219 Cloudy Moderate Mid-Ebb Surface 1 09:31 8.85 8.28 31.5 20.46 H1 12 20221219 Mid-Ebb 4.2 09:30 8.88 8.28 31.57 20.36 4.6 Cloudy Moderate Middle H1 20221219 Moderate Mid-Ebb Middle 4.2 09:30 8.83 8.3 31.49 20.46 4.6 14 Cloudy H1 20221219 7.4 8.81 8.24 20.37 4.9 7 Cloudy Moderate Mid-Ebb Bottom 09:29 31.63 7 H1 20221219 Moderate Mid-Ebb 7.4 09:29 8.73 8.26 31.62 20.49 4.8 Cloudy Bottom M1 20221219 Cloudy Moderate Mid-Ebb Surface 1 09:02 8.42 8.31 31.05 20.31 4.4 10 20221219 1 20.19 4.6 7 M1 Cloudy Moderate Mid-Ebb Surface 09:02 8.42 8.32 30.97 6 M1 20221219 Mid-Ebb Middle 4.75 09:01 8.28 8.32 20.21 3.9 Cloudy Moderate 31.06 20221219 8.32 4.2 6 M1 Cloudy Moderate Mid-Ebb Middle 4.75 09:01 8.46 31.09 20.15 4.2 M1 20221219 Cloudy Moderate Mid-Ebb Bottom 8.5 09:00 8.38 8.3 31.06 20.26 16 M1 20221219 Cloudy Moderate Mid-Ebb Bottom 8.5 09:00 8.27 8.32 31.1 20.2 4.7 17 B1 20221219 Moderate Mid-Flood 13:30 9.13 8.34 31.68 20.55 3.3 6 Cloudy Surface 1 3.2 B1 20221219 Moderate Mid-Flood Surface 1 13:30 9.1 8.35 31.76 20.62 6 Cloudy 3.6 2 B1 20221219 Cloudy Moderate Mid-Flood Bottom 3.8 13:29 9.18 8.31 31.65 20.6 3.5 2 B1 20221219 Moderate Mid-Flood 3.8 13:29 9.12 8.34 31.74 20.59 Cloudy Bottom B2 3.9 2 20221219 Moderate 9.18 8.28 32.18 20.48 Cloudy Mid-Flood Surface 1 13:46 B2 20221219 Moderate 4.0 4 Mid-Flood 1 9.18 8.29 32.15 20.44 Cloudy Surface 13:46 3.8 B2 20221219 Moderate Mid-Flood 4.1 9.18 8.28 32.18 20.48 3 Cloudy Bottom 13:45 2 B2 20221219 Moderate Mid-Flood 4.1 13:45 9.2 8.31 32.01 20.49 3.5 Cloudy Bottom 2 B3 9 20221219 Cloudy Moderate Mid-Flood Surface 1 13:20 8.35 30.9 20.21 4.9 B3 3 20221219 Moderate Mid-Flood Surface 1 13:20 8.99 8.24 30.92 20.21 4.2 Cloudy

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (⁰C)	Turbidty (NTU) Note 1	SS (mg/L)
B3	20221219	Cloudy	Moderate	Mid-Flood	Bottom	4.1	13:19	8.88	8.37	30.83	20.2	4.9	3
B3	20221219	Cloudy	Moderate	Mid-Flood	Bottom	4.1	13:19	8.96	8.34	30.83	20.24	4.6	3
B4	20221219	Cloudy	Moderate	Mid-Flood	Surface	1	13:30	9.12	8.33	31.35	20.51	5.2	3
B4	20221219	Cloudy	Moderate	Mid-Flood	Surface	1	13:30	9.09	8.36	31.46	20.54	4.9	3
B4	20221219	Cloudy	Moderate	Mid-Flood	Bottom	4.6	13:29	9.01	8.34	31.45	20.59	5.5	4
B4	20221219	Cloudy	Moderate	Mid-Flood	Bottom	4.6	13:29	9.06	8.4	31.35	20.58	5.4	6
C1A	20221219	Cloudy	Moderate	Mid-Flood	Surface	1	13:09	8.22	8.37	31.35	20.21	5.7	5
C1A	20221219	Cloudy	Moderate	Mid-Flood	Surface	1	13:09	8.32	8.37	31.3	20.13	5.7	4
C1A	20221219	Cloudy	Moderate	Mid-Flood	Middle	5.85	13:08	8.22	8.34	31.33	20.23	5.8	15
C1A	20221219	Cloudy	Moderate	Mid-Flood	Middle	5.85	13:08	8.36	8.24	31.38	20.2	5.7	14
C1A	20221219	Cloudy	Moderate	Mid-Flood	Bottom	10.7	13:07	8.33	8.33	31.25	20.24	5.8	12
C1A	20221219	Cloudy	Moderate	Mid-Flood	Bottom	10.7	13:07	8.2	8.25	31.33	20.09	5.9	13
C2A	20221219	Cloudy	Moderate	Mid-Flood	Surface	1	13:09	9.08	8.34	31.75	20.33	6.1	6
C2A	20221219	Cloudy	Moderate	Mid-Flood	Surface	1	13:09	8.96	8.29	31.72	20.32	5.9	3
C2A	20221219	Cloudy	Moderate	Mid-Flood	Middle	5.75	13:08	9.11	8.31	31.7	20.34	6.3	7
C2A	20221219	Cloudy	Moderate	Mid-Flood	Middle	5.75	13:08	9.01	8.36	31.75	20.35	6.5	7
C2A	20221219	Cloudy	Moderate	Mid-Flood	Bottom	10.5	13:07	8.97	8.37	31.86	20.23	6.5	2
C2A	20221219	Cloudy	Moderate	Mid-Flood	Bottom	10.5	13:07	8.94	8.29	31.85	20.3	6.2	2
CR1	20221219	Cloudy	Moderate	Mid-Flood	Surface	1	14:42	8.3	8.3	31.9	20.22	4.0	5
CR1	20221219	Cloudy	Moderate	Mid-Flood	Surface	1	14:42	8.27	8.36	31.95	20.33	3.6	6
CR1	20221219	Cloudy	Moderate	Mid-Flood	Middle	6.35	14:41	8.32	8.3	31.88	20.22	4.2	7
CR1	20221219	Cloudy	Moderate	Mid-Flood	Middle	6.35	14:41	8.32	8.33	31.96	20.26	4.2	7
CR1	20221219	Cloudy	Moderate	Mid-Flood	Bottom	11.7	14:40	8.36	8.31	31.92	20.33	4.6	5
CR1	20221219	Cloudy	Moderate	Mid-Flood	Bottom	11.7	14:40	8.39	8.33	31.9	20.3	4.7	3
CR2	20221219	Cloudy	Moderate	Mid-Flood	Surface	1	14:26	8.49	8.33	31.62	20.32	4.0	3
CR2	20221219	Cloudy	Moderate	Mid-Flood	Surface	1	14:26	8.4	8.37	31.75	20.35	4.4	5
CR2	20221219	Cloudy	Moderate	Mid-Flood	Middle	5.95	14:25	8.46	8.32	31.62	20.3	4.6	8
CR2	20221219	Cloudy	Moderate	Mid-Flood	Middle	5.95	14:25	8.49	8.35	31.66	20.26	4.6	7
CR2	20221219	Cloudy	Moderate	Mid-Flood	Bottom	10.9	14:24	8.48	8.3	31.75	20.25	5.0	4
CR2	20221219	Cloudy	Moderate	Mid-Flood	Bottom	10.9	14:24	8.49	8.35	31.61	20.35	4.8	4
F1A	20221219	Cloudy	Moderate	Mid-Flood	Surface	1	13:57	8.42	8.27	31.46	20.59	4.7	7
F1A	20221219	Cloudy	Moderate	Mid-Flood	Surface	1	13:57	8.57	8.27	31.47	20.62	4.1	6
F1A	20221219	Cloudy	Moderate	Mid-Flood	Middle	3.95	13:56	8.44	8.25	31.57	20.59	4.8	5
F1A	20221219	Cloudy	Moderate	Mid-Flood	Middle	3.95	13:56	8.45	8.28	31.53	20.52	5.0	4
F1A	20221219	Cloudy	Moderate	Mid-Flood	Bottom	6.9	13:55	8.5	8.26	31.56	20.52	5.4	5
F1A	20221219	Cloudy	Moderate	Mid-Flood	Bottom	6.9	13:55	8.51	8.33	31.46	20.49	5.4	4
H1	20221219	Cloudy	Moderate	Mid-Flood	Surface	1	14:13	9.24	8.3	31.16	20.53	4.1	4
H1	20221219	Cloudy	Moderate	Mid-Flood	Surface	1	14:13	9.29	8.24	31.27	20.44	3.9	4
H1	20221219	Cloudy	Moderate	Mid-Flood	Middle	3.9	14:12	9.32	8.31	31.24	20.47	5.1	3
H1	20221219	Cloudy	Moderate	Mid-Flood	Middle	3.9	14:12	9.18	8.33	31.14	20.46	4.8	5

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (℃)	Turbidty (NTU) Note 1	SS (mg/L)
H1	20221219	Cloudy	Moderate	Mid-Flood	Bottom	6.8	14:11	9.18	8.33	31.28	20.5	5.2	5
H1	20221219	Cloudy	Moderate	Mid-Flood	Bottom	6.8	14:11	9.25	8.26	31.23	20.53	4.8	6
M1	20221219	Cloudy	Moderate	Mid-Flood	Surface	1	14:22	8.3	8.27	32.16	20.22	4.7	6
M1	20221219	Cloudy	Moderate	Mid-Flood	Surface	1	14:22	8.17	8.29	32.13	20.35	5.1	6
M1	20221219	Cloudy	Moderate	Mid-Flood	Middle	4.1	14:21	8.28	8.24	32.17	20.34	4.3	6
M1	20221219	Cloudy	Moderate	Mid-Flood	Middle	4.1	14:21	8.17	8.28	32.2	20.33	4.1	7
M1	20221219	Cloudy	Moderate	Mid-Flood	Bottom	7.2	14:20	8.27	8.26	32.18	20.33	5.5	5
M1	20221219	Cloudy	Moderate	Mid-Flood	Bottom	7.2	14:20	8.33	8.31	32.28	20.22	5.1	7
B1	20221221	Sunny	Moderate	Mid-Ebb	Surface	1	09:54	8.59	8.19	32.18	20.33	3.4	7
B1	20221221	Sunny	Moderate	Mid-Ebb	Surface	1	09:54	8.48	8.24	32.3	20.37	3.2	5
B1	20221221	Sunny	Moderate	Mid-Ebb	Bottom	3.7	09:53	8.41	8.18	32.36	20.31	3.9	6
B1	20221221	Sunny	Moderate	Mid-Ebb	Bottom	3.7	09:53	8.51	8.26	32.34	20.26	3.5	6
B2	20221221	Sunny	Moderate	Mid-Ebb	Surface	1	10:10	9.12	8.33	31.37	20.41	2.9	3
B2	20221221	Sunny	Moderate	Mid-Ebb	Surface	1	10:10	9.07	8.43	31.59	20.49	2.9	5
B2	20221221	Sunny	Moderate	Mid-Ebb	Bottom	4.5	10:09	9.08	8.39	31.38	20.48	3.4	7
B2	20221221	Sunny	Moderate	Mid-Ebb	Bottom	4.5	10:09	9.13	8.33	31.54	20.41	2.9	6
B3	20221221	Sunny	Moderate	Mid-Ebb	Surface	1	12:28	8.88	8.31	32.33	20.72	4.3	5
B3	20221221	Sunny	Moderate	Mid-Ebb	Surface	1	12:28	8.79	8.32	32.28	20.74	4.4	6
B3	20221221	Sunny	Moderate	Mid-Ebb	Bottom	3.6	12:27	8.91	8.27	32.27	20.72	3.9	5
B3	20221221	Sunny	Moderate	Mid-Ebb	Bottom	3.6	12:27	8.88	8.38	32.5	20.78	4.2	4
B4	20221221	Sunny	Moderate	Mid-Ebb	Surface	1	12:13	8.47	8.21	31.86	20.36	5.3	6
B4	20221221	Sunny	Moderate	Mid-Ebb	Surface	1	12:13	8.48	8.22	31.83	20.46	4.9	4
B4	20221221	Sunny	Moderate	Mid-Ebb	Bottom	3.2	12:12	8.42	8.25	31.81	20.35	5.8	7
B4	20221221	Sunny	Moderate	Mid-Ebb	Bottom	3.2	12:12	8.52	8.26	31.89	20.47	5.6	5
C1A	20221221	Sunny	Moderate	Mid-Ebb	Surface	1	09:29	8.1	8.33	31.92	20.47	7.1	7
C1A	20221221	Sunny	Moderate	Mid-Ebb	Surface	1	09:29	8.22	8.28	31.92	20.5	6.6	9
C1A	20221221	Sunny	Moderate	Mid-Ebb	Middle	4.8	09:28	8.14	8.33	31.97	20.47	6.8	6
C1A	20221221	Sunny	Moderate	Mid-Ebb	Middle	4.8	09:28	8.08	8.37	32.03	20.57	6.9	7
C1A	20221221	Sunny	Moderate	Mid-Ebb	Bottom	8.6	09:27	8.24	8.33	31.93	20.55	7.4	4
C1A	20221221	Sunny	Moderate	Mid-Ebb	Bottom	8.6	09:27	8.22	8.37	32.06	20.56	7.6	7
C2A	20221221	Sunny	Moderate	Mid-Ebb	Surface	1	11:34	8.61	8.24	32.96	20.46	5.9	5
C2A	20221221	Sunny	Moderate	Mid-Ebb	Surface	1	11:34	8.58	8.25	33	20.47	5.9	7
C2A	20221221	Sunny	Moderate	Mid-Ebb	Middle	5.95	11:33	8.67	8.29	32.98	20.49	6.0	4
C2A	20221221	Sunny	Moderate	Mid-Ebb	Middle	5.95	11:33	8.61	8.18	32.92	20.38	5.9	3
C2A	20221221	Sunny	Moderate	Mid-Ebb	Bottom	10.9	11:32	8.55	8.28	33.04	20.45	6.3	6
C2A	20221221	Sunny	Moderate	Mid-Ebb	Bottom	10.9	11:32	8.62	8.24	33.07	20.41	6.9	9
CR1	20221221	Sunny	Moderate	Mid-Ebb	Surface	1	11:16	8.82	8.25	32.06	20.57	5.9	3
CR1	20221221	Sunny	Moderate	Mid-Ebb	Surface	1	11:16	8.83	8.21	31.95	20.64	5.7	5
CR1	20221221	Sunny	Moderate	Mid-Ebb	Middle	6.25	11:15	8.68	8.26	31.94	20.6	5.6	4
CR1	20221221	Sunny	Moderate	Mid-Ebb	Middle	6.25	11:15	8.79	8.2	32.01	20.61	6.0	6

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (⁰C)	Turbidty (NTU) Note 1	SS (mg/L)
CR1	20221221	Sunny	Moderate	Mid-Ebb	Bottom	11.5	11:14	8.81	8.17	32.02	20.65	5.8	6
CR1	20221221	Sunny	Moderate	Mid-Ebb	Bottom	11.5	11:14	8.83	8.24	32.03	20.64	6.2	3
CR2	20221221	Sunny	Moderate	Mid-Ebb	Surface	1	10:51	9.31	8.24	32.63	20.64	5.4	4
CR2	20221221	Sunny	Moderate	Mid-Ebb	Surface	1	10:51	9.18	8.16	32.76	20.72	5.6	3
CR2	20221221	Sunny	Moderate	Mid-Ebb	Middle	5.85	10:50	9.16	8.15	32.62	20.63	6.0	5
CR2	20221221	Sunny	Moderate	Mid-Ebb	Middle	5.85	10:50	9.25	8.19	32.69	20.62	6.0	6
CR2	20221221	Sunny	Moderate	Mid-Ebb	Bottom	10.7	10:49	9.25	8.24	32.74	20.71	6.1	7
CR2	20221221	Sunny	Moderate	Mid-Ebb	Bottom	10.7	10:49	9.26	8.17	32.56	20.7	5.6	7
F1A	20221221	Sunny	Moderate	Mid-Ebb	Surface	1	11:47	9.1	8.37	31.4	20.53	4.6	8
F1A	20221221	Sunny	Moderate	Mid-Ebb	Surface	1	11:47	9.12	8.32	31.32	20.55	4.3	5
F1A	20221221	Sunny	Moderate	Mid-Ebb	Middle	4.6	11:46	9.13	8.3	31.27	20.59	5.5	4
F1A	20221221	Sunny	Moderate	Mid-Ebb	Middle	4.6	11:46	9.01	8.34	31.36	20.49	5.1	8
F1A	20221221	Sunny	Moderate	Mid-Ebb	Bottom	8.2	11:45	9.01	8.34	31.26	20.58	5.7	5
F1A	20221221	Sunny	Moderate	Mid-Ebb	Bottom	8.2	11:45	8.99	8.38	31.34	20.54	6.0	5
H1	20221221	Sunny	Moderate	Mid-Ebb	Surface	1	10:39	8.06	8.3	32.79	20.39	3.7	5
H1	20221221	Sunny	Moderate	Mid-Ebb	Surface	1	10:39	8.12	8.3	32.9	20.36	3.4	6
H1	20221221	Sunny	Moderate	Mid-Ebb	Middle	4.05	10:38	8.03	8.22	32.88	20.39	3.9	7
H1	20221221	Sunny	Moderate	Mid-Ebb	Middle	4.05	10:38	8.1	8.3	32.94	20.41	3.8	6
H1	20221221	Sunny	Moderate	Mid-Ebb	Bottom	7.1	10:37	8.14	8.28	32.88	20.31	4.2	5
H1	20221221	Sunny	Moderate	Mid-Ebb	Bottom	7.1	10:37	8.18	8.21	32.96	20.3	4.2	4
M1	20221221	Sunny	Moderate	Mid-Ebb	Surface	1	12:27	9.21	8.44	32.64	20.76	4.0	7
M1	20221221	Sunny	Moderate	Mid-Ebb	Surface	1	12:27	9.26	8.47	32.57	20.69	3.5	6
M1	20221221	Sunny	Moderate	Mid-Ebb	Middle	4.6	12:26	9.17	8.36	32.81	20.72	3.8	4
M1	20221221	Sunny	Moderate	Mid-Ebb	Middle	4.6	12:26	9.14	8.47	32.66	20.68	4.2	7
M1	20221221	Sunny	Moderate	Mid-Ebb	Bottom	8.2	12:25	9.16	8.39	32.71	20.66	4.3	3
M1	20221221	Sunny	Moderate	Mid-Ebb	Bottom	8.2	12:25	9.14	8.45	32.72	20.75	4.1	5
B1	20221221	Sunny	Moderate	Mid-Flood	Surface	1	14:37	8.13	8.32	31.68	20.78	4.1	6
B1	20221221	Sunny	Moderate	Mid-Flood	Surface	1	14:37	8.16	8.32	31.66	20.66	3.5	3
B1	20221221	Sunny	Moderate	Mid-Flood	Bottom	3.6	14:36	8.22	8.28	31.75	20.65	4.3	3
B1	20221221	Sunny	Moderate	Mid-Flood	Bottom	3.6	14:36	8.15	8.3	31.67	20.64	4.4	4
B2	20221221	Sunny	Moderate	Mid-Flood	Surface	1	14:50	8.87	8.17	31.03	20.69	3.0	6
B2	20221221	Sunny	Moderate	Mid-Flood	Surface	1	14:50	8.87	8.12	31.08	20.68	3.1	4
B2	20221221	Sunny	Moderate	Mid-Flood	Bottom	3.8	14:49	8.8	8.13	31.11	20.58	3.5	5
B2	20221221	Sunny	Moderate	Mid-Flood	Bottom	3.8	14:49	8.81	8.14	30.96	20.65	3.3	6
B3	20221221	Sunny	Moderate	Mid-Flood	Surface	1	14:25	8.74	8.16	31.58	20.68	4.5	6
B3	20221221	Sunny	Moderate	Mid-Flood	Surface	1	14:25	8.88	8.16	31.71	20.73	3.9	7
B3	20221221	Sunny	Moderate	Mid-Flood	Bottom	3.6	14:24	8.9	8.17	31.59	20.7	4.8	6
B3	20221221	Sunny	Moderate	Mid-Flood	Bottom	3.6	14:24	8.85	8.2	31.68	20.75	4.2	5
B4	20221221	Sunny	Moderate	Mid-Flood	Surface	1	14:35	9.44	8.31	32.14	20.69	4.0	5
B4	20221221	Sunny	Moderate	Mid-Flood	Surface	1	14:35	9.52	8.31	31.97	20.69	4.1	7

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (⁰C)	Turbidty (NTU) Note 1	SS (mg/L)
B4	20221221	Sunny	Moderate	Mid-Flood	Bottom	4.4	14:34	9.37	8.38	32.15	20.8	4.6	5
B4	20221221	Sunny	Moderate	Mid-Flood	Bottom	4.4	14:34	9.54	8.38	32	20.86	4.4	6
C1A	20221221	Sunny	Moderate	Mid-Flood	Surface	1	14:14	8.13	8.38	31.18	20.62	5.8	3
C1A	20221221	Sunny	Moderate	Mid-Flood	Surface	1	14:14	8.3	8.35	30.99	20.55	5.3	6
C1A	20221221	Sunny	Moderate	Mid-Flood	Middle	5.75	14:13	8.14	8.38	31.08	20.64	5.4	5
C1A	20221221	Sunny	Moderate	Mid-Flood	Middle	5.75	14:13	8.19	8.42	30.96	20.58	5.6	7
C1A	20221221	Sunny	Moderate	Mid-Flood	Bottom	10.5	14:12	8.3	8.35	31.18	20.61	5.3	6
C1A	20221221	Sunny	Moderate	Mid-Flood	Bottom	10.5	14:12	8.31	8.36	31.18	20.55	5.9	6
C2A	20221221	Sunny	Moderate	Mid-Flood	Surface	1	14:14	8.96	8.15	32.33	20.82	6.1	7
C2A	20221221	Sunny	Moderate	Mid-Flood	Surface	1	14:14	8.97	8.15	32.39	20.76	6.3	6
C2A	20221221	Sunny	Moderate	Mid-Flood	Middle	5.85	14:13	9.02	8.15	32.4	20.85	6.7	7
C2A	20221221	Sunny	Moderate	Mid-Flood	Middle	5.85	14:13	8.85	8.18	32.3	20.75	6.1	8
C2A	20221221	Sunny	Moderate	Mid-Flood	Bottom	10.7	14:12	8.9	8.12	32.52	20.86	6.8	6
C2A	20221221	Sunny	Moderate	Mid-Flood	Bottom	10.7	14:12	8.91	8.11	32.43	20.74	6.5	9
CR1	20221221	Sunny	Moderate	Mid-Flood	Surface	1	15:42	8.95	8.18	31.88	20.65	3.8	6
CR1	20221221	Sunny	Moderate	Mid-Flood	Surface	1	15:42	8.76	8.21	31.79	20.77	4.2	8
CR1	20221221	Sunny	Moderate	Mid-Flood	Middle	6.55	15:41	8.76	8.2	31.95	20.76	4.9	8
CR1	20221221	Sunny	Moderate	Mid-Flood	Middle	6.55	15:41	8.95	8.18	31.79	20.72	4.4	8
CR1	20221221	Sunny	Moderate	Mid-Flood	Bottom	12.1	15:40	8.95	8.2	31.95	20.6	4.9	7
CR1	20221221	Sunny	Moderate	Mid-Flood	Bottom	12.1	15:40	8.9	8.16	31.88	20.77	4.2	6
CR2	20221221	Sunny	Moderate	Mid-Flood	Surface	1	15:27	8.64	8.23	31.76	20.6	5.5	6
CR2	20221221	Sunny	Moderate	Mid-Flood	Surface	1	15:27	8.73	8.22	31.84	20.71	5.0	6
CR2	20221221	Sunny	Moderate	Mid-Flood	Middle	5.7	15:26	8.6	8.25	31.71	20.71	5.9	7
CR2	20221221	Sunny	Moderate	Mid-Flood	Middle	5.7	15:26	8.71	8.19	31.68	20.7	5.8	6
CR2	20221221	Sunny	Moderate	Mid-Flood	Bottom	10.4	15:25	8.65	8.24	31.87	20.58	5.5	8
CR2	20221221	Sunny	Moderate	Mid-Flood	Bottom	10.4	15:25	8.63	8.27	31.86	20.65	5.6	7
F1A	20221221	Sunny	Moderate	Mid-Flood	Surface	1	15:01	8.75	8.26	32.76	20.72	3.5	6
F1A	20221221	Sunny	Moderate	Mid-Flood	Surface	1	15:01	8.76	8.28	32.58	20.74	3.7	7
F1A	20221221	Sunny	Moderate	Mid-Flood	Middle	4.15	15:00	8.76	8.25	32.64	20.73	3.8	3
F1A	20221221	Sunny	Moderate	Mid-Flood	Middle	4.15	15:00	8.79	8.21	32.54	20.64	3.8	5
F1A	20221221	Sunny	Moderate	Mid-Flood	Bottom	7.3	14:59	8.8	8.28	32.6	20.72	3.9	4
F1A	20221221	Sunny	Moderate	Mid-Flood	Bottom	7.3	14:59	8.82	8.26	32.75	20.75	3.3	6
H1	20221221	Sunny	Moderate	Mid-Flood	Surface	1	15:16	8.5	8.36	31.08	20.44	3.9	7
H1	20221221	Sunny	Moderate	Mid-Flood	Surface	1	15:16	8.51	8.39	31.08	20.45	3.7	7
H1	20221221	Sunny	Moderate	Mid-Flood	Middle	4.2	15:15	8.53	8.34	31.2	20.46	4.7	8
H1	20221221	Sunny	Moderate	Mid-Flood	Middle	4.2	15:15	8.45	8.36	31.08	20.47	4.3	7
H1	20221221	Sunny	Moderate	Mid-Flood	Bottom	7.4	15:14	8.4	8.38	31.2	20.53	5.0	6
H1	20221221	Sunny	Moderate	Mid-Flood	Bottom	7.4	15:14	8.57	8.41	31.19	20.48	4.8	4
M1	20221221	Sunny	Moderate	Mid-Flood	Surface	1	15:24	9.11	8.32	32.42	20.46	3.7	7
M1	20221221	Sunny	Moderate	Mid-Flood	Surface	1	15:24	9.24	8.25	32.3	20.41	3.6	9

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pН	Sal (ppt)	Temp (⁰C)	Turbidty (NTU) Note 1	SS (mg/L)
M1	20221221	Sunny	Moderate	Mid-Flood	Middle	4.25	15:23	9.21	8.26	32.38	20.46	4.2	5
M1	20221221	Sunny	Moderate	Mid-Flood	Middle	4.25	15:23	9.22	8.29	32.19	20.45	3.9	5
M1	20221221	Sunny	Moderate	Mid-Flood	Bottom	7.5	15:22	9.15	8.25	32.34	20.42	4.4	5
M1	20221221	Sunny	Moderate	Mid-Flood	Bottom	7.5	15:22	9.25	8.3	32.3	20.54	4.4	4
B1	20221223	Sunny	Moderate	Mid-Flood	Surface	1	09:16	9.1	8.28	32.23	20.82	3.0	7
B1	20221223	Sunny	Moderate	Mid-Flood	Surface	1	09:16	9.13	8.29	32.2	20.8	3.3	7
B1	20221223	Sunny	Moderate	Mid-Flood	Bottom	4.5	09:15	9.19	8.22	32.24	20.78	3.7	8
B1	20221223	Sunny	Moderate	Mid-Flood	Bottom	4.5	09:15	9.11	8.21	32.15	20.87	3.4	10
B2	20221223	Sunny	Moderate	Mid-Flood	Surface	1	09:31	8.75	8.19	32.27	20.92	2.8	10
B2	20221223	Sunny	Moderate	Mid-Flood	Surface	1	09:31	8.73	8.17	32.35	20.87	2.8	9
B2	20221223	Sunny	Moderate	Mid-Flood	Bottom	4.2	09:30	8.71	8.22	32.36	20.91	3.2	9
B2	20221223	Sunny	Moderate	Mid-Flood	Bottom	4.2	09:30	8.69	8.17	32.35	20.89	3.1	6
B3	20221223	Sunny	Moderate	Mid-Flood	Surface	1	10:11	8.35	8.24	31.64	20.83	4.1	11
B3	20221223	Sunny	Moderate	Mid-Flood	Surface	1	10:11	8.4	8.26	31.68	20.73	4.4	7
B3	20221223	Sunny	Moderate	Mid-Flood	Bottom	3.8	10:10	8.29	8.21	31.65	20.72	4.1	8
B3	20221223	Sunny	Moderate	Mid-Flood	Bottom	3.8	10:10	8.37	8.23	31.69	20.73	4.6	8
B4	20221223	Sunny	Moderate	Mid-Flood	Surface	1	10:00	8.25	8.36	31.81	20.64	3.3	12
B4	20221223	Sunny	Moderate	Mid-Flood	Surface	1	10:00	8.15	8.33	31.87	20.66	3.2	10
B4	20221223	Sunny	Moderate	Mid-Flood	Bottom	4.2	09:59	8.19	8.33	31.81	20.66	3.9	7
B4	20221223	Sunny	Moderate	Mid-Flood	Bottom	4.2	09:59	8.21	8.36	31.74	20.71	3.7	6
C1A	20221223	Sunny	Moderate	Mid-Flood	Surface	1	08:50	8.07	8.27	31.72	20.87	3.7	7
C1A	20221223	Sunny	Moderate	Mid-Flood	Surface	1	08:50	8.02	8.28	31.65	20.81	3.9	11
C1A	20221223	Sunny	Moderate	Mid-Flood	Middle	4.95	08:49	8.05	8.27	31.74	20.92	4.0	10
C1A	20221223	Sunny	Moderate	Mid-Flood	Middle	4.95	08:49	8.05	8.26	31.71	20.85	4.2	14
C1A	20221223	Sunny	Moderate	Mid-Flood	Bottom	8.9	08:48	8.07	8.2	31.69	20.82	4.7	8
C1A	20221223	Sunny	Moderate	Mid-Flood	Bottom	8.9	08:48	8.07	8.26	31.71	20.87	4.3	8
C2A	20221223	Sunny	Moderate	Mid-Flood	Surface	1	08:02	8.8	8.25	31.16	20.86	4.4	8
C2A	20221223	Sunny	Moderate	Mid-Flood	Surface	1	08:02	8.74	8.32	31.08	20.87	4.7	6
C2A	20221223	Sunny	Moderate	Mid-Flood	Middle	5.6	08:01	8.82	8.27	31.09	20.84	5.0	8
C2A	20221223	Sunny	Moderate	Mid-Flood	Middle	5.6	08:01	8.75	8.27	31.11	20.86	4.7	10
C2A	20221223	Sunny	Moderate	Mid-Flood	Bottom	10.2	08:00	8.81	8.31	31.15	20.91	5.2	7
C2A	20221223	Sunny	Moderate	Mid-Flood	Bottom	10.2	08:00	8.72	8.29	31.08	20.91	5.4	6
CR1	20221223	Sunny	Moderate	Mid-Flood	Surface	1	08:20	7.96	8.4	31.3	20.81	3.7	8
CR1	20221223	Sunny	Moderate	Mid-Flood	Surface	1	08:20	7.96	8.4	31.36	20.78	3.6	6
CR1	20221223	Sunny	Moderate	Mid-Flood	Middle	6.45	08:19	7.85	8.36	31.26	20.84	4.1	5
CR1	20221223	Sunny	Moderate	Mid-Flood	Middle	6.45	08:19	7.87	8.33	31.25	20.85	4.0	5
CR1	20221223	Sunny	Moderate	Mid-Flood	Bottom	11.9	08:18	7.88	8.4	31.4	20.85	4.7	6
CR1	20221223	Sunny	Moderate	Mid-Flood	Bottom	11.9	08:18	7.85	8.36	31.25	20.86	4.4	4
CR2	20221223	Sunny	Moderate	Mid-Flood	Surface	1	08:34	9.07	8.29	32.5	20.75	3.9	6
CR2	20221223	Sunny	Moderate	Mid-Flood	Surface	1	08:34	9.12	8.31	32.4	20.83	4.0	8

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (⁰C)	Turbidty (NTU) Note 1	SS (mg/L)
CR2	20221223	Sunny	Moderate	Mid-Flood	Middle	5.95	08:33	9.13	8.24	32.46	20.85	3.7	4
CR2	20221223	Sunny	Moderate	Mid-Flood	Middle	5.95	08:33	9.12	8.31	32.41	20.82	3.4	5
CR2	20221223	Sunny	Moderate	Mid-Flood	Bottom	10.9	08:32	9.08	8.27	32.45	20.76	4.3	9
CR2	20221223	Sunny	Moderate	Mid-Flood	Bottom	10.9	08:32	9.05	8.23	32.54	20.76	4.2	5
F1A	20221223	Sunny	Moderate	Mid-Flood	Surface	1	09:23	9.44	8.25	31.19	20.96	3.6	9
F1A	20221223	Sunny	Moderate	Mid-Flood	Surface	1	09:23	9.36	8.22	31.07	20.91	3.8	6
F1A	20221223	Sunny	Moderate	Mid-Flood	Middle	4.05	09:22	9.33	8.26	31.13	20.92	4.3	6
F1A	20221223	Sunny	Moderate	Mid-Flood	Middle	4.05	09:22	9.37	8.25	31.12	20.94	3.9	9
F1A	20221223	Sunny	Moderate	Mid-Flood	Bottom	7.1	09:21	9.35	8.29	31.19	20.94	4.3	6
F1A	20221223	Sunny	Moderate	Mid-Flood	Bottom	7.1	09:21	9.33	8.23	31.24	20.92	4.7	3
H1	20221223	Sunny	Moderate	Mid-Flood	Surface	1	09:58	7.92	8.34	31.56	20.58	3.3	7
H1	20221223	Sunny	Moderate	Mid-Flood	Surface	1	09:58	7.89	8.31	31.6	20.6	3.3	9
H1	20221223	Sunny	Moderate	Mid-Flood	Middle	4.1	09:57	7.94	8.37	31.53	20.68	3.8	8
H1	20221223	Sunny	Moderate	Mid-Flood	Middle	4.1	09:57	7.93	8.36	31.58	20.59	4.0	5
H1	20221223	Sunny	Moderate	Mid-Flood	Bottom	7.2	09:56	7.9	8.36	31.56	20.64	3.9	9
H1	20221223	Sunny	Moderate	Mid-Flood	Bottom	7.2	09:56	7.94	8.33	31.57	20.6	4.1	6
M1	20221223	Sunny	Moderate	Mid-Flood	Surface	1	08:58	9.19	8.33	32.26	20.77	2.8	8
M1	20221223	Sunny	Moderate	Mid-Flood	Surface	1	08:58	9.25	8.28	32.09	20.82	3.1	5
M1	20221223	Sunny	Moderate	Mid-Flood	Middle	4.25	08:57	9.18	8.33	32.16	20.73	3.6	6
M1	20221223	Sunny	Moderate	Mid-Flood	Middle	4.25	08:57	9.15	8.3	32.25	20.74	3.0	8
M1	20221223	Sunny	Moderate	Mid-Flood	Bottom	7.5	08:56	9.24	8.31	32.09	20.7	4.0	6
M1	20221223	Sunny	Moderate	Mid-Flood	Bottom	7.5	08:56	9.21	8.29	32.16	20.8	3.3	8
B1	20221223	Sunny	Moderate	Mid-Ebb	Surface	1	11:31	8.93	8.3	31.35	20.81	4.2	8
B1	20221223	Sunny	Moderate	Mid-Ebb	Surface	1	11:31	8.97	8.34	31.33	20.83	4.3	8
B1	20221223	Sunny	Moderate	Mid-Ebb	Bottom	4.1	11:30	8.95	8.35	31.41	20.77	3.9	6
B1	20221223	Sunny	Moderate	Mid-Ebb	Bottom	4.1	11:30	8.96	8.31	31.31	20.76	4.6	3
B2	20221223	Sunny	Moderate	Mid-Ebb	Surface	1	11:46	9.48	8.24	32.55	21.15	3.1	15
B2	20221223	Sunny	Moderate	Mid-Ebb	Surface	1	11:46	9.43	8.24	32.5	21.11	2.8	10
B2	20221223	Sunny	Moderate	Mid-Ebb	Bottom	4.8	11:45	9.46	8.24	32.5	21.05	3.6	6
B2	20221223	Sunny	Moderate	Mid-Ebb	Bottom	4.8	11:45	9.49	8.19	32.57	21.07	3.9	10
B3	20221223	Sunny	Moderate	Mid-Ebb	Surface	1	11:22	8.21	8.24	31.34	20.76	3.5	6
B3	20221223	Sunny	Moderate	Mid-Ebb	Surface	1	11:22	8.32	8.21	31.34	20.76	3.8	8
B3	20221223	Sunny	Moderate	Mid-Ebb	Bottom	3.4	11:21	8.2	8.26	31.4	20.67	4.7	10
B3	20221223	Sunny	Moderate	Mid-Ebb	Bottom	3.4	11:21	8.22	8.24	31.2	20.67	4.3	6
B4	20221223	Sunny	Moderate	Mid-Ebb	Surface	1	11:32	8.92	8.3	32.31	20.92	5.5	6
B4	20221223	Sunny	Moderate	Mid-Ebb	Surface	1	11:32	9.03	8.3	32.34	20.92	6.0	6
B4	20221223	Sunny	Moderate	Mid-Ebb	Bottom	3.2	11:31	8.94	8.28	32.27	20.84	5.0	7
B4	20221223	Sunny	Moderate	Mid-Ebb	Bottom	3.2	11:31	9	8.28	32.34	20.9	5.0	8
C1A	20221223	Sunny	Moderate	Mid-Ebb	Surface	1	11:11	8.37	8.28	32.14	20.82	6.9	6
C1A	20221223	Sunny	Moderate	Mid-Ebb	Surface	1	11:11	8.45	8.34	32.28	20.86	6.6	9

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pН	Sal (ppt)	Temp (⁰C)	Turbidty (NTU) Note 1	SS (mg/L)
C1A	20221223	Sunny	Moderate	Mid-Ebb	Middle	4.75	11:10	8.36	8.28	32.12	20.81	7.4	7
C1A	20221223	Sunny	Moderate	Mid-Ebb	Middle	4.75	11:10	8.34	8.29	32.24	20.81	7.0	12
C1A	20221223	Sunny	Moderate	Mid-Ebb	Bottom	8.5	11:09	8.35	8.28	32.33	20.88	7.9	7
C1A	20221223	Sunny	Moderate	Mid-Ebb	Bottom	8.5	11:09	8.36	8.29	32.15	20.84	7.7	10
C2A	20221223	Sunny	Moderate	Mid-Ebb	Surface	1	11:11	9.25	8.25	32.26	20.88	5.3	6
C2A	20221223	Sunny	Moderate	Mid-Ebb	Surface	1	11:11	9.26	8.25	32.21	20.88	5.2	11
C2A	20221223	Sunny	Moderate	Mid-Ebb	Middle	6.05	11:10	9.19	8.3	32.17	20.83	6.0	9
C2A	20221223	Sunny	Moderate	Mid-Ebb	Middle	6.05	11:10	9.24	8.28	32.21	20.87	5.9	10
C2A	20221223	Sunny	Moderate	Mid-Ebb	Bottom	11.1	11:09	9.21	8.28	32.23	20.82	6.3	7
C2A	20221223	Sunny	Moderate	Mid-Ebb	Bottom	11.1	11:09	9.21	8.31	32.14	20.88	6.3	6
CR1	20221223	Sunny	Moderate	Mid-Ebb	Surface	1	12:36	8.75	8.33	32.77	21.14	5.3	9
CR1	20221223	Sunny	Moderate	Mid-Ebb	Surface	1	12:36	8.66	8.32	32.7	21.08	4.9	7
CR1	20221223	Sunny	Moderate	Mid-Ebb	Middle	6.85	12:35	8.66	8.31	32.79	21.17	5.0	7
CR1	20221223	Sunny	Moderate	Mid-Ebb	Middle	6.85	12:35	8.69	8.28	32.77	21.18	5.1	11
CR1	20221223	Sunny	Moderate	Mid-Ebb	Bottom	12.7	12:34	8.76	8.29	32.69	21.2	4.4	6
CR1	20221223	Sunny	Moderate	Mid-Ebb	Bottom	12.7	12:34	8.71	8.3	32.6	21.12	4.5	6
CR2	20221223	Sunny	Moderate	Mid-Ebb	Surface	1	12:22	9.07	8.35	32.47	20.74	4.3	7
CR2	20221223	Sunny	Moderate	Mid-Ebb	Surface	1	12:22	9.1	8.32	32.41	20.78	4.6	10
CR2	20221223	Sunny	Moderate	Mid-Ebb	Middle	5.75	12:21	9.06	8.35	32.45	20.77	5.7	6
CR2	20221223	Sunny	Moderate	Mid-Ebb	Middle	5.75	12:21	9.01	8.35	32.48	20.7	5.9	6
CR2	20221223	Sunny	Moderate	Mid-Ebb	Bottom	10.5	12:20	9.11	8.33	32.36	20.73	5.2	7
CR2	20221223	Sunny	Moderate	Mid-Ebb	Bottom	10.5	12:20	9.1	8.34	32.45	20.71	5.4	7
F1A	20221223	Sunny	Moderate	Mid-Ebb	Surface	1	11:58	9.15	8.35	32.4	21	5.3	8
F1A	20221223	Sunny	Moderate	Mid-Ebb	Surface	1	11:58	9.14	8.34	32.43	21.07	5.2	5
F1A	20221223	Sunny	Moderate	Mid-Ebb	Middle	4.55	11:57	9.18	8.33	32.37	21.08	5.1	10
F1A	20221223	Sunny	Moderate	Mid-Ebb	Middle	4.55	11:57	9.26	8.35	32.53	21.1	5.1	14
F1A	20221223	Sunny	Moderate	Mid-Ebb	Bottom	8.1	11:56	9.26	8.34	32.35	21.1	5.4	9
F1A	20221223	Sunny	Moderate	Mid-Ebb	Bottom	8.1	11:56	9.19	8.29	32.47	21.07	4.7	5
H1	20221223	Sunny	Moderate	Mid-Ebb	Surface	1	12:07	7.98	8.28	32.75	20.93	3.5	7
H1	20221223	Sunny	Moderate	Mid-Ebb	Surface	1	12:07	8.06	8.25	32.72	20.99	3.9	7
H1	20221223	Sunny	Moderate	Mid-Ebb	Middle	4.1	12:06	8.01	8.29	32.7	20.94	3.6	5
H1	20221223	Sunny	Moderate	Mid-Ebb	Middle	4.1	12:06	7.99	8.26	32.76	20.97	4.1	6
H1	20221223	Sunny	Moderate	Mid-Ebb	Bottom	7.2	12:05	8	8.26	32.67	21.02	4.6	8
H1	20221223	Sunny	Moderate	Mid-Ebb	Bottom	7.2	12:05	7.97	8.28	32.68	21.01	4.2	6
M1	20221223	Sunny	Moderate	Mid-Ebb	Surface	1	11:20	8.21	8.27	31.29	21.14	3.9	7
M1	20221223	Sunny	Moderate	Mid-Ebb	Surface	1	11:20	8.15	8.28	31.19	21.1	3.9	6
M1	20221223	Sunny	Moderate	Mid-Ebb	Middle	4.55	11:19	8.14	8.26	31.35	21.16	3.5	8
M1	20221223	Sunny	Moderate	Mid-Ebb	Middle	4.55	11:19	8.19	8.29	31.3	21.13	3.3	9
M1	20221223	Sunny	Moderate	Mid-Ebb	Bottom	8.1	11:18	8.25	8.27	31.23	21.12	3.5	6
M1	20221223	Sunny	Moderate	Mid-Ebb	Bottom	8.1	11:18	8.15	8.27	31.23	21.2	4.2	7

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pН	Sal (ppt)	Temp (⁰C)	Turbidty (NTU) Note 1	SS (mg/L)
B1	20221226	Sunny	Moderate	Mid-Flood	Surface	1	09:19	9.26	8.24	30.93	20.25	3.0	6
B1	20221226	Sunny	Moderate	Mid-Flood	Surface	1	09:19	9.28	8.24	30.93	20.16	3.2	9
B1	20221226	Sunny	Moderate	Mid-Flood	Bottom	4.2	09:18	9.23	8.26	30.84	20.13	3.6	9
B1	20221226	Sunny	Moderate	Mid-Flood	Bottom	4.2	09:18	9.33	8.27	30.81	20.26	3.5	5
B2	20221226	Sunny	Moderate	Mid-Flood	Surface	1	09:36	8.4	8.27	31.02	20.57	3.0	9
B2	20221226	Sunny	Moderate	Mid-Flood	Surface	1	09:36	8.52	8.21	31.02	20.52	3.2	9
B2	20221226	Sunny	Moderate	Mid-Flood	Bottom	3.7	09:35	8.34	8.28	31.14	20.48	3.3	9
B2	20221226	Sunny	Moderate	Mid-Flood	Bottom	3.7	09:35	8.42	8.25	30.96	20.56	3.8	11
B3	20221226	Sunny	Moderate	Mid-Flood	Surface	1	10:09	8.19	8.21	31	20.41	4.0	11
B3	20221226	Sunny	Moderate	Mid-Flood	Surface	1	10:09	8.22	8.25	31.02	20.47	4.1	13
B3	20221226	Sunny	Moderate	Mid-Flood	Bottom	3.4	10:08	8.21	8.25	30.85	20.52	4.6	4
B3	20221226	Sunny	Moderate	Mid-Flood	Bottom	3.4	10:08	8.22	8.29	31.06	20.54	4.5	6
B4	20221226	Sunny	Moderate	Mid-Flood	Surface	1	09:59	8.54	8.38	31.75	20.38	3.6	5
B4	20221226	Sunny	Moderate	Mid-Flood	Surface	1	09:59	8.57	8.32	31.58	20.44	3.4	4
B4	20221226	Sunny	Moderate	Mid-Flood	Bottom	3.5	09:58	8.52	8.37	31.56	20.44	4.4	10
B4	20221226	Sunny	Moderate	Mid-Flood	Bottom	3.5	09:58	8.65	8.34	31.69	20.26	4.4	7
C1A	20221226	Sunny	Moderate	Mid-Flood	Surface	1	08:52	9.34	8.21	30.91	20.48	4.5	6
C1A	20221226	Sunny	Moderate	Mid-Flood	Surface	1	08:52	9.4	8.24	30.89	20.44	4.7	8
C1A	20221226	Sunny	Moderate	Mid-Flood	Middle	5.1	08:51	9.4	8.21	31.02	20.47	4.4	7
C1A	20221226	Sunny	Moderate	Mid-Flood	Middle	5.1	08:51	9.42	8.21	30.86	20.38	4.2	9
C1A	20221226	Sunny	Moderate	Mid-Flood	Bottom	9.2	08:50	9.32	8.29	30.88	20.41	5.1	9
C1A	20221226	Sunny	Moderate	Mid-Flood	Bottom	9.2	08:50	9.48	8.25	31.08	20.43	4.3	8
C2A	20221226	Sunny	Moderate	Mid-Flood	Surface	1	08:02	8.55	8.22	30.36	20.31	4.9	8
C2A	20221226	Sunny	Moderate	Mid-Flood	Surface	1	08:02	8.72	8.25	30.3	20.24	5.2	9
C2A	20221226	Sunny	Moderate	Mid-Flood	Middle	5.65	08:01	8.57	8.25	30.26	20.17	5.7	9
C2A	20221226	Sunny	Moderate	Mid-Flood	Middle	5.65	08:01	8.6	8.21	30.27	20.3	5.3	11
C2A	20221226	Sunny	Moderate	Mid-Flood	Bottom	10.3	08:00	8.57	8.24	30.27	20.13	5.9	17
C2A	20221226	Sunny	Moderate	Mid-Flood	Bottom	10.3	08:00	8.6	8.24	30.34	20.23	5.8	10
CR1	20221226	Sunny	Moderate	Mid-Flood	Surface	1	08:21	8.56	8.35	30.82	20.38	3.6	7
CR1	20221226	Sunny	Moderate	Mid-Flood	Surface	1	08:21	8.57	8.35	30.77	20.44	3.5	7
CR1	20221226	Sunny	Moderate	Mid-Flood	Middle	6.1	08:20	8.5	8.36	30.73	20.42	3.8	5
CR1	20221226	Sunny	Moderate	Mid-Flood	Middle	6.1	08:20	8.55	8.35	30.85	20.43	3.3	9
CR1	20221226	Sunny	Moderate	Mid-Flood	Bottom	11.2	08:19	8.44	8.36	30.81	20.44	4.1	10
CR1	20221226	Sunny	Moderate	Mid-Flood	Bottom	11.2	08:19	8.5	8.31	30.8	20.27	3.6	8
CR2	20221226	Sunny	Moderate	Mid-Flood	Surface	1	08:35	8.29	8.28	31.67	20.03	3.2	8
CR2	20221226	Sunny	Moderate	Mid-Flood	Surface	1	08:35	8.38	8.32	31.52	20.12	3.3	10
CR2	20221226	Sunny	Moderate	Mid-Flood	Middle	5.5	08:34	8.28	8.3	31.7	20.04	4.0	7
CR2	20221226	Sunny	Moderate	Mid-Flood	Middle	5.5	08:34	8.35	8.26	31.48	19.99	4.2	8
CR2	20221226	Sunny	Moderate	Mid-Flood	Bottom	10	08:33	8.22	8.27	31.56	20.09	4.1	10
CR2	20221226	Sunny	Moderate	Mid-Flood	Bottom	10	08:33	8.35	8.31	31.62	20	4.5	7

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pН	Sal (ppt)	Temp (°C)	Turbidty (NTU) Note 1	SS (mg/L)
F1A	20221226	Sunny	Moderate	Mid-Flood	Surface	1	09:23	8.34	8.28	30.22	20.18	3.6	6
F1A	20221226	Sunny	Moderate	Mid-Flood	Surface	1	09:23	8.42	8.21	30.11	20.17	3.3	8
F1A	20221226	Sunny	Moderate	Mid-Flood	Middle	4.2	09:22	8.45	8.21	30.09	20.15	3.6	12
F1A	20221226	Sunny	Moderate	Mid-Flood	Middle	4.2	09:22	8.48	8.25	30.24	19.99	3.5	11
F1A	20221226	Sunny	Moderate	Mid-Flood	Bottom	7.4	09:21	8.42	8.24	30.15	20.08	4.8	11
F1A	20221226	Sunny	Moderate	Mid-Flood	Bottom	7.4	09:21	8.47	8.26	30.06	20.04	4.4	11
H1	20221226	Sunny	Moderate	Mid-Flood	Surface	1	10:01	9.23	8.29	30.64	20.33	3.5	6
H1	20221226	Sunny	Moderate	Mid-Flood	Surface	1	10:01	9.24	8.29	30.61	20.3	3.4	9
H1	20221226	Sunny	Moderate	Mid-Flood	Middle	3.9	10:00	9.12	8.31	30.8	20.28	4.3	8
H1	20221226	Sunny	Moderate	Mid-Flood	Middle	3.9	10:00	9.2	8.36	30.61	20.17	3.8	10
H1	20221226	Sunny	Moderate	Mid-Flood	Bottom	6.8	09:59	9.11	8.3	30.62	20.13	4.4	5
H1	20221226	Sunny	Moderate	Mid-Flood	Bottom	6.8	09:59	9.17	8.29	30.72	20.24	4.3	8
M1	20221226	Sunny	Moderate	Mid-Flood	Surface	1	08:58	8.31	8.25	31.57	20.11	3.1	9
M1	20221226	Sunny	Moderate	Mid-Flood	Surface	1	08:58	8.34	8.24	31.59	20.08	3.3	9
M1	20221226	Sunny	Moderate	Mid-Flood	Middle	4.2	08:57	8.25	8.25	31.53	20.21	3.8	4
M1	20221226	Sunny	Moderate	Mid-Flood	Middle	4.2	08:57	8.3	8.28	31.58	20.19	3.4	7
M1	20221226	Sunny	Moderate	Mid-Flood	Bottom	7.4	08:56	8.21	8.28	31.68	20.14	3.7	8
M1	20221226	Sunny	Moderate	Mid-Flood	Bottom	7.4	08:56	8.3	8.24	31.46	20.19	3.9	8
B1	20221226	Sunny	Moderate	Mid-Ebb	Surface	1	13:54	8.57	8.28	31.98	20.41	4.2	11
B1	20221226	Sunny	Moderate	Mid-Ebb	Surface	1	13:54	8.44	8.31	31.85	20.38	3.6	10
B1	20221226	Sunny	Moderate	Mid-Ebb	Bottom	3.9	13:53	8.57	8.27	31.83	20.4	4.0	8
B1	20221226	Sunny	Moderate	Mid-Ebb	Bottom	3.9	13:53	8.49	8.29	32.02	20.42	3.8	10
B2	20221226	Sunny	Moderate	Mid-Ebb	Surface	1	14:08	8.87	8.3	30.74	20.16	4.2	6
B2	20221226	Sunny	Moderate	Mid-Ebb	Surface	1	14:08	8.96	8.3	30.57	20.15	4.0	10
B2	20221226	Sunny	Moderate	Mid-Ebb	Bottom	4.3	14:07	8.81	8.25	30.53	20.12	4.2	9
B2	20221226	Sunny	Moderate	Mid-Ebb	Bottom	4.3	14:07	8.87	8.25	30.75	20.11	3.7	9
B3	20221226	Sunny	Moderate	Mid-Ebb	Surface	1	13:36	8.7	8.26	30.66	20.43	4.7	11
B3	20221226	Sunny	Moderate	Mid-Ebb	Surface	1	13:36	8.74	8.29	30.51	20.36	4.5	9
B3	20221226	Sunny	Moderate	Mid-Ebb	Bottom	3.5	13:35	8.78	8.31	30.64	20.34	5.1	6
B3	20221226	Sunny	Moderate	Mid-Ebb	Bottom	3.5	13:35	8.76	8.25	30.65	20.44	5.0	9
B4	20221226	Sunny	Moderate	Mid-Ebb	Surface	1	13:46	8.61	8.26	31.63	20.36	3.9	9
B4	20221226	Sunny	Moderate	Mid-Ebb	Surface	1	13:46	8.54	8.34	31.69	20.41	4.1	9
B4	20221226	Sunny	Moderate	Mid-Ebb	Bottom	3.1	13:45	8.53	8.29	31.89	20.33	4.1	9
B4	20221226	Sunny	Moderate	Mid-Ebb	Bottom	3.1	13:45	8.48	8.3	31.83	20.36	4.0	11
C1A	20221226	Sunny	Moderate	Mid-Ebb	Surface	1	13:35	8.98	8.28	30.91	20.17	6.0	7
C1A	20221226	Sunny	Moderate	Mid-Ebb	Surface	1	13:35	8.89	8.29	31.19	20.1	5.6	7
C1A	20221226	Sunny	Moderate	Mid-Ebb	Middle	5.05	13:34	9.03	8.29	31	20.13	6.2	5
C1A	20221226	Sunny	Moderate	Mid-Ebb	Middle	5.05	13:34	8.97	8.3	31.06	20.07	6.2	4
C1A	20221226	Sunny	Moderate	Mid-Ebb	Bottom	9.1	13:33	9.05	8.28	31.12	20.14	6.1	7
C1A	20221226	Sunny	Moderate	Mid-Ebb	Bottom	9.1	13:33	8.93	8.31	31.02	20.16	6.3	6

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (℃)	Turbidty (NTU) Note 1	SS (mg/L)
C2A	20221226	Sunny	Moderate	Mid-Ebb	Surface	1	13:24	8.96	8.33	30.98	20.23	4.1	7
C2A	20221226	Sunny	Moderate	Mid-Ebb	Surface	1	13:24	9.01	8.37	30.75	20.36	4.4	6
C2A	20221226	Sunny	Moderate	Mid-Ebb	Middle	5.9	13:23	9.02	8.31	30.94	20.34	4.7	8
C2A	20221226	Sunny	Moderate	Mid-Ebb	Middle	5.9	13:23	8.89	8.37	31.03	20.29	4.8	6
C2A	20221226	Sunny	Moderate	Mid-Ebb	Bottom	10.8	13:22	8.97	8.32	30.91	20.38	5.6	7
C2A	20221226	Sunny	Moderate	Mid-Ebb	Bottom	10.8	13:22	8.99	8.35	30.74	20.25	4.9	5
CR1	20221226	Sunny	Moderate	Mid-Ebb	Surface	1	15:01	8.42	8.29	31.35	20.23	3.8	6
CR1	20221226	Sunny	Moderate	Mid-Ebb	Surface	1	15:01	8.52	8.26	31.49	20.2	4.0	4
CR1	20221226	Sunny	Moderate	Mid-Ebb	Middle	6.55	15:00	8.5	8.25	31.52	20.11	4.4	6
CR1	20221226	Sunny	Moderate	Mid-Ebb	Middle	6.55	15:00	8.44	8.26	31.63	20.14	4.2	6
CR1	20221226	Sunny	Moderate	Mid-Ebb	Bottom	12.1	14:59	8.42	8.26	31.62	20.22	4.9	7
CR1	20221226	Sunny	Moderate	Mid-Ebb	Bottom	12.1	14:59	8.48	8.26	31.38	20.23	5.0	7
CR2	20221226	Sunny	Moderate	Mid-Ebb	Surface	1	14:45	9.16	8.31	30.56	20.39	3.4	6
CR2	20221226	Sunny	Moderate	Mid-Ebb	Surface	1	14:45	9.16	8.25	30.59	20.44	3.3	6
CR2	20221226	Sunny	Moderate	Mid-Ebb	Middle	5.65	14:44	9.08	8.27	30.54	20.54	3.6	7
CR2	20221226	Sunny	Moderate	Mid-Ebb	Middle	5.65	14:44	9.01	8.26	30.39	20.44	3.6	6
CR2	20221226	Sunny	Moderate	Mid-Ebb	Bottom	10.3	14:43	9.12	8.26	30.6	20.52	4.1	7
CR2	20221226	Sunny	Moderate	Mid-Ebb	Bottom	10.3	14:43	9.2	8.28	30.44	20.4	4.8	6
F1A	20221226	Sunny	Moderate	Mid-Ebb	Surface	1	14:12	8.36	8.31	31.09	20.46	3.6	8
F1A	20221226	Sunny	Moderate	Mid-Ebb	Surface	1	14:12	8.45	8.24	31.14	20.51	3.5	8
F1A	20221226	Sunny	Moderate	Mid-Ebb	Middle	4.25	14:11	8.46	8.27	31.08	20.36	4.0	5
F1A	20221226	Sunny	Moderate	Mid-Ebb	Middle	4.25	14:11	8.34	8.26	31.11	20.41	3.8	8
F1A	20221226	Sunny	Moderate	Mid-Ebb	Bottom	7.5	14:10	8.41	8.31	31.08	20.38	4.4	9
F1A	20221226	Sunny	Moderate	Mid-Ebb	Bottom	7.5	14:10	8.46	8.26	31.33	20.44	4.1	6
H1	20221226	Sunny	Moderate	Mid-Ebb	Surface	1	14:33	9.14	8.31	30.83	20.42	3.9	9
H1	20221226	Sunny	Moderate	Mid-Ebb	Surface	1	14:33	9.09	8.34	30.88	20.33	4.1	10
H1	20221226	Sunny	Moderate	Mid-Ebb	Middle	4.25	14:32	9.17	8.3	30.92	20.35	4.9	12
H1	20221226	Sunny	Moderate	Mid-Ebb	Middle	4.25	14:32	9.02	8.32	30.87	20.4	4.4	20
H1	20221226	Sunny	Moderate	Mid-Ebb	Bottom	7.5	14:31	9.16	8.3	30.94	20.39	5.3	7
H1	20221226	Sunny	Moderate	Mid-Ebb	Bottom	7.5	14:31	9.16	8.32	30.91	20.49	4.9	10
M1	20221226	Sunny	Moderate	Mid-Ebb	Surface	1	14:35	8.21	8.23	31.43	20.2	3.4	7
M1	20221226	Sunny	Moderate	Mid-Ebb	Surface	1	14:35	8.29	8.23	31.37	20.07	3.7	8
M1	20221226	Sunny	Moderate	Mid-Ebb	Middle	4.45	14:34	8.33	8.26	31.46	20.15	3.7	7
M1	20221226	Sunny	Moderate	Mid-Ebb	Middle	4.45	14:34	8.29	8.27	31.29	20.22	3.8	7
M1	20221226	Sunny	Moderate	Mid-Ebb	Bottom	7.9	14:33	8.3	8.25	31.44	20.09	4.3	8
M1	20221226	Sunny	Moderate	Mid-Ebb	Bottom	7.9	14:33	8.38	8.29	31.31	20.08	4.0	9
B1	20221228	Sunny	Moderate	Mid-Flood	Surface	1	10:49	9.52	8.28	32.39	20.65	4.2	5
B1	20221228	Sunny	Moderate	Mid-Flood	Surface	1	10:49	9.56	8.3	32.28	20.65	3.6	3
B1	20221228	Sunny	Moderate	Mid-Flood	Bottom	4.4	10:48	9.6	8.31	32.33	20.68	3.7	5
B1	20221228	Sunny	Moderate	Mid-Flood	Bottom	4.4	10:48	9.59	8.34	32.35	20.63	4.0	4

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pН	Sal (ppt)	Temp (℃)	Turbidty (NTU) Note 1	SS (mg/L)
B2	20221228	Sunny	Moderate	Mid-Flood	Surface	1	11:04	8.79	8.28	32.52	20.6	2.7	6
B2	20221228	Sunny	Moderate	Mid-Flood	Surface	1	11:04	8.91	8.22	32.42	20.54	2.9	5
B2	20221228	Sunny	Moderate	Mid-Flood	Bottom	3.4	11:03	8.89	8.2	32.43	20.58	2.9	5
B2	20221228	Sunny	Moderate	Mid-Flood	Bottom	3.4	11:03	8.92	8.2	32.51	20.56	3.0	5
B3	20221228	Sunny	Moderate	Mid-Flood	Surface	1	11:52	9.39	8.26	32.15	20.32	4.1	4
B3	20221228	Sunny	Moderate	Mid-Flood	Surface	1	11:52	9.53	8.31	32.14	20.34	3.7	5
B3	20221228	Sunny	Moderate	Mid-Flood	Bottom	3.7	11:51	9.37	8.24	32.1	20.36	4.3	3
B3	20221228	Sunny	Moderate	Mid-Flood	Bottom	3.7	11:51	9.41	8.27	32.26	20.31	4.3	5
B4	20221228	Sunny	Moderate	Mid-Flood	Surface	1	11:41	8.91	8.34	33.45	20.48	4.2	3
B4	20221228	Sunny	Moderate	Mid-Flood	Surface	1	11:41	8.91	8.34	33.21	20.51	3.8	4
B4	20221228	Sunny	Moderate	Mid-Flood	Bottom	3.7	11:40	8.93	8.34	33.28	20.51	4.4	2
B4	20221228	Sunny	Moderate	Mid-Flood	Bottom	3.7	11:40	8.81	8.36	33.27	20.46	3.9	2
C1A	20221228	Sunny	Moderate	Mid-Flood	Surface	1	10:23	8.46	8.27	31.84	20.52	4.9	8
C1A	20221228	Sunny	Moderate	Mid-Flood	Surface	1	10:23	8.61	8.28	31.94	20.54	4.6	6
C1A	20221228	Sunny	Moderate	Mid-Flood	Middle	5.2	10:22	8.52	8.21	31.77	20.51	4.3	4
C1A	20221228	Sunny	Moderate	Mid-Flood	Middle	5.2	10:22	8.61	8.22	32	20.6	4.6	4
C1A	20221228	Sunny	Moderate	Mid-Flood	Bottom	9.4	10:21	8.56	8.22	31.87	20.47	5.1	6
C1A	20221228	Sunny	Moderate	Mid-Flood	Bottom	9.4	10:21	8.59	8.22	31.8	20.6	4.7	5
C2A	20221228	Sunny	Moderate	Mid-Flood	Surface	1	09:33	8.6	8.23	31.99	20.35	5.2	7
C2A	20221228	Sunny	Moderate	Mid-Flood	Surface	1	09:33	8.65	8.26	32.03	20.22	5.4	4
C2A	20221228	Sunny	Moderate	Mid-Flood	Middle	5.95	09:32	8.48	8.25	31.83	20.27	5.6	7
C2A	20221228	Sunny	Moderate	Mid-Flood	Middle	5.95	09:32	8.61	8.26	31.93	20.24	5.8	7
C2A	20221228	Sunny	Moderate	Mid-Flood	Bottom	10.9	09:31	8.51	8.24	31.88	20.28	6.1	7
C2A	20221228	Sunny	Moderate	Mid-Flood	Bottom	10.9	09:31	8.52	8.27	32.06	20.28	5.5	6
CR1	20221228	Sunny	Moderate	Mid-Flood	Surface	1	09:51	9.69	8.2	31.8	20.35	5.0	6
CR1	20221228	Sunny	Moderate	Mid-Flood	Surface	1	09:51	9.56	8.21	31.87	20.32	4.4	8
CR1	20221228	Sunny	Moderate	Mid-Flood	Middle	6.15	09:50	9.53	8.24	31.99	20.36	5.0	8
CR1	20221228	Sunny	Moderate	Mid-Flood	Middle	6.15	09:50	9.68	8.24	31.85	20.32	4.8	7
CR1	20221228	Sunny	Moderate	Mid-Flood	Bottom	11.3	09:49	9.69	8.22	31.88	20.27	5.2	5
CR1	20221228	Sunny	Moderate	Mid-Flood	Bottom	11.3	09:49	9.55	8.24	31.96	20.37	5.0	6
CR2	20221228	Sunny	Moderate	Mid-Flood	Surface	1	10:06	8.39	8.33	31.91	20.38	3.4	6
CR2	20221228	Sunny	Moderate	Mid-Flood	Surface	1	10:06	8.47	8.35	31.81	20.49	3.8	6
CR2	20221228	Sunny	Moderate	Mid-Flood	Middle	5.6	10:05	8.49	8.33	31.9	20.43	3.5	5
CR2	20221228	Sunny	Moderate	Mid-Flood	Middle	5.6	10:05	8.39	8.33	31.82	20.4	3.8	6
CR2	20221228	Sunny	Moderate	Mid-Flood	Bottom	10.2	10:04	8.52	8.33	31.65	20.47	4.0	6
CR2	20221228	Sunny	Moderate	Mid-Flood	Bottom	10.2	10:04	8.38	8.35	31.87	20.42	3.8	6
F1A	20221228	Sunny	Moderate	Mid-Flood	Surface	1	11:04	8.31	8.24	33.1	20.64	3.4	6
F1A	20221228	Sunny	Moderate	Mid-Flood	Surface	1	11:04	8.39	8.25	32.84	20.66	3.1	5
F1A	20221228	Sunny	Moderate	Mid-Flood	Middle	4.25	11:03	8.38	8.2	32.93	20.68	3.4	4
F1A	20221228	Sunny	Moderate	Mid-Flood	Middle	4.25	11:03	8.32	8.25	32.89	20.68	3.0	6

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pН	Sal (ppt)	Temp (°C)	Turbidty (NTU) Note 1	SS (mg/L)
F1A	20221228	Sunny	Moderate	Mid-Flood	Bottom	7.5	11:02	8.27	8.24	33.02	20.62	4.0	7
F1A	20221228	Sunny	Moderate	Mid-Flood	Bottom	7.5	11:02	8.33	8.25	32.91	20.68	3.8	6
H1	20221228	Sunny	Moderate	Mid-Flood	Surface	1	11:29	9.29	8.34	32.19	20.4	4.9	3
H1	20221228	Sunny	Moderate	Mid-Flood	Surface	1	11:29	9.31	8.33	32.17	20.35	4.6	4
H1	20221228	Sunny	Moderate	Mid-Flood	Middle	4.15	11:28	9.33	8.34	32.11	20.28	5.0	4
H1	20221228	Sunny	Moderate	Mid-Flood	Middle	4.15	11:28	9.18	8.34	31.99	20.35	4.3	5
H1	20221228	Sunny	Moderate	Mid-Flood	Bottom	7.3	11:27	9.26	8.34	32.08	20.38	4.9	7
H1	20221228	Sunny	Moderate	Mid-Flood	Bottom	7.3	11:27	9.22	8.31	32.04	20.37	4.9	4
M1	20221228	Sunny	Moderate	Mid-Flood	Surface	1	10:40	9.22	8.23	33.12	20.54	3.7	5
M1	20221228	Sunny	Moderate	Mid-Flood	Surface	1	10:40	9.27	8.27	33.15	20.49	4.1	5
M1	20221228	Sunny	Moderate	Mid-Flood	Middle	4.05	10:39	9.35	8.22	33.07	20.48	3.9	8
M1	20221228	Sunny	Moderate	Mid-Flood	Middle	4.05	10:39	9.36	8.24	32.92	20.43	4.0	4
M1	20221228	Sunny	Moderate	Mid-Flood	Bottom	7.1	10:38	9.39	8.23	33.13	20.51	4.0	6
M1	20221228	Sunny	Moderate	Mid-Flood	Bottom	7.1	10:38	9.3	8.25	32.87	20.43	3.4	7
B1	20221228	Sunny	Moderate	Mid-Ebb	Surface	1	15:28	9.37	8.21	31.89	20.73	4.1	8
B1	20221228	Sunny	Moderate	Mid-Ebb	Surface	1	15:28	9.42	8.27	32.07	20.76	4.1	12
B1	20221228	Sunny	Moderate	Mid-Ebb	Bottom	4.2	15:27	9.45	8.26	32.12	20.75	4.0	14
B1	20221228	Sunny	Moderate	Mid-Ebb	Bottom	4.2	15:27	9.48	8.27	31.87	20.74	4.1	12
B2	20221228	Sunny	Moderate	Mid-Ebb	Surface	1	15:41	8.28	8.24	33.3	20.73	3.7	6
B2	20221228	Sunny	Moderate	Mid-Ebb	Surface	1	15:41	8.28	8.27	33.4	20.73	3.6	7
B2	20221228	Sunny	Moderate	Mid-Ebb	Bottom	4.3	15:40	8.24	8.25	33.34	20.79	3.3	9
B2	20221228	Sunny	Moderate	Mid-Ebb	Bottom	4.3	15:40	8.29	8.26	33.37	20.82	3.9	7
B3	20221228	Sunny	Moderate	Mid-Ebb	Surface	1	15:20	8.4	8.31	32.91	20.62	4.7	9
B3	20221228	Sunny	Moderate	Mid-Ebb	Surface	1	15:20	8.41	8.35	33.02	20.57	4.9	7
B3	20221228	Sunny	Moderate	Mid-Ebb	Bottom	3.5	15:19	8.43	8.33	32.9	20.61	4.7	8
B3	20221228	Sunny	Moderate	Mid-Ebb	Bottom	3.5	15:19	8.47	8.35	33.02	20.67	4.8	8
B4	20221228	Sunny	Moderate	Mid-Ebb	Surface	1	15:30	8.46	8.23	32.14	20.59	5.0	6
B4	20221228	Sunny	Moderate	Mid-Ebb	Surface	1	15:30	8.45	8.24	32.04	20.52	4.4	4
B4	20221228	Sunny	Moderate	Mid-Ebb	Bottom	3.1	15:29	8.45	8.27	31.97	20.53	4.6	3
B4	20221228	Sunny	Moderate	Mid-Ebb	Bottom	3.1	15:29	8.46	8.28	31.82	20.59	4.9	6
C1A	20221228	Sunny	Moderate	Mid-Ebb	Surface	1	15:09	8.55	8.3	31.75	20.75	5.1	3
C1A	20221228	Sunny	Moderate	Mid-Ebb	Surface	1	15:09	8.4	8.3	31.93	20.74	5.6	4
C1A	20221228	Sunny	Moderate	Mid-Ebb	Middle	4.7	15:08	8.52	8.31	31.76	20.8	6.1	5
C1A	20221228	Sunny	Moderate	Mid-Ebb	Middle	4.7	15:08	8.54	8.31	31.81	20.85	6.0	4
C1A	20221228	Sunny	Moderate	Mid-Ebb	Bottom	8.4	15:07	8.45	8.3	31.72	20.82	6.4	5
C1A	20221228	Sunny	Moderate	Mid-Ebb	Bottom	8.4	15:07	8.41	8.35	31.61	20.73	6.6	6
C2A	20221228	Sunny	Moderate	Mid-Ebb	Surface	1	15:09	9.41	8.3	33.01	20.49	4.9	3
C2A	20221228	Sunny	Moderate	Mid-Ebb	Surface	1	15:09	9.37	8.34	32.82	20.54	5.1	5
C2A	20221228	Sunny	Moderate	Mid-Ebb	Middle	6.05	15:08	9.29	8.32	33.1	20.44	5.3	4
C2A	20221228	Sunny	Moderate	Mid-Ebb	Middle	6.05	15:08	9.42	8.35	32.87	20.55	5.6	6

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (℃)	Turbidty (NTU) Note 1	SS (mg/L)
C2A	20221228	Sunny	Moderate	Mid-Ebb	Bottom	11.1	15:07	9.35	8.33	33.14	20.57	5.7	5
C2A	20221228	Sunny	Moderate	Mid-Ebb	Bottom	11.1	15:07	9.38	8.33	33.08	20.53	5.8	4
CR1	20221228	Sunny	Moderate	Mid-Ebb	Surface	1	16:35	9	8.34	32.66	20.56	4.7	4
CR1	20221228	Sunny	Moderate	Mid-Ebb	Surface	1	16:35	8.95	8.34	32.63	20.56	4.3	2
CR1	20221228	Sunny	Moderate	Mid-Ebb	Middle	6.25	16:34	9	8.32	32.77	20.64	4.9	4
CR1	20221228	Sunny	Moderate	Mid-Ebb	Middle	6.25	16:34	8.91	8.34	32.74	20.64	4.5	4
CR1	20221228	Sunny	Moderate	Mid-Ebb	Bottom	11.5	16:33	8.92	8.34	32.52	20.54	5.1	3
CR1	20221228	Sunny	Moderate	Mid-Ebb	Bottom	11.5	16:33	8.87	8.32	32.77	20.63	5.4	3
CR2	20221228	Sunny	Moderate	Mid-Ebb	Surface	1	16:19	8.67	8.23	32.26	20.51	4.4	3
CR2	20221228	Sunny	Moderate	Mid-Ebb	Surface	1	16:19	8.64	8.22	32.03	20.49	4.4	2
CR2	20221228	Sunny	Moderate	Mid-Ebb	Middle	5.6	16:18	8.71	8.27	32.25	20.53	4.5	3
CR2	20221228	Sunny	Moderate	Mid-Ebb	Middle	5.6	16:18	8.58	8.28	32.07	20.54	4.3	3
CR2	20221228	Sunny	Moderate	Mid-Ebb	Bottom	10.2	16:17	8.71	8.24	32.12	20.48	4.8	3
CR2	20221228	Sunny	Moderate	Mid-Ebb	Bottom	10.2	16:17	8.64	8.26	32.04	20.57	4.4	4
F1A	20221228	Sunny	Moderate	Mid-Ebb	Surface	1	15:55	9.59	8.26	32.35	20.62	5.3	8
F1A	20221228	Sunny	Moderate	Mid-Ebb	Surface	1	15:55	9.52	8.31	32.42	20.63	4.7	7
F1A	20221228	Sunny	Moderate	Mid-Ebb	Middle	4.4	15:54	9.54	8.24	32.54	20.62	5.1	2
F1A	20221228	Sunny	Moderate	Mid-Ebb	Middle	4.4	15:54	9.54	8.29	32.42	20.53	5.8	3
F1A	20221228	Sunny	Moderate	Mid-Ebb	Bottom	7.8	15:53	9.49	8.26	32.3	20.56	5.0	2
F1A	20221228	Sunny	Moderate	Mid-Ebb	Bottom	7.8	15:53	9.48	8.31	32.53	20.67	5.8	4
H1	20221228	Sunny	Moderate	Mid-Ebb	Surface	1	16:07	8.46	8.3	32.78	20.63	4.6	6
H1	20221228	Sunny	Moderate	Mid-Ebb	Surface	1	16:07	8.46	8.35	32.72	20.55	4.7	6
H1	20221228	Sunny	Moderate	Mid-Ebb	Middle	4.45	16:06	8.46	8.29	32.74	20.54	4.3	4
H1	20221228	Sunny	Moderate	Mid-Ebb	Middle	4.45	16:06	8.59	8.34	32.59	20.54	4.5	5
H1	20221228	Sunny	Moderate	Mid-Ebb	Bottom	7.9	16:05	8.55	8.3	32.73	20.58	4.5	8
H1	20221228	Sunny	Moderate	Mid-Ebb	Bottom	7.9	16:05	8.57	8.31	32.87	20.62	4.1	6
M1	20221228	Sunny	Moderate	Mid-Ebb	Surface	1	16:19	8.89	8.21	32.98	20.8	4.0	3
M1	20221228	Sunny	Moderate	Mid-Ebb	Surface	1	16:19	9	8.22	33.11	20.71	3.4	4
M1	20221228	Sunny	Moderate	Mid-Ebb	Middle	4.5	16:18	8.94	8.21	33.11	20.82	3.3	5
M1	20221228	Sunny	Moderate	Mid-Ebb	Middle	4.5	16:18	8.97	8.24	33	20.75	3.6	7
M1	20221228	Sunny	Moderate	Mid-Ebb	Bottom	8	16:17	8.97	8.23	33.04	20.71	4.0	7
M1	20221228	Sunny	Moderate	Mid-Ebb	Bottom	8	16:17	8.98	8.23	32.87	20.84	4.7	6
B1	20221230	Sunny	Moderate	Mid-Ebb	Surface	1	08:47	9.24	8.32	31.17	20.98	3.4	6
B1	20221230	Sunny	Moderate	Mid-Ebb	Surface	1	08:47	9.27	8.32	31.15	21.03	3.4	8
B1	20221230	Sunny	Moderate	Mid-Ebb	Bottom	4.2	08:46	9.38	8.32	31.12	20.92	3.2	11
B1	20221230	Sunny	Moderate	Mid-Ebb	Bottom	4.2	08:46	9.23	8.34	31.07	20.9	3.1	9
B2	20221230	Sunny	Moderate	Mid-Ebb	Surface	1	09:03	8.66	8.27	30.27	21.35	3.2	4
B2	20221230	Sunny	Moderate	Mid-Ebb	Surface	1	09:03	8.58	8.28	30.42	21.31	3.0	5
B2	20221230	Sunny	Moderate	Mid-Ebb	Bottom	4.7	09:02	8.65	8.26	30.39	21.42	3.6	11
B2	20221230	Sunny	Moderate	Mid-Ebb	Bottom	4.7	09:02	8.56	8.23	30.28	21.44	3.8	8

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pН	Sal (ppt)	Temp (℃)	Turbidty (NTU) Note 1	SS (mg/L)
B3	20221230	Sunny	Moderate	Mid-Ebb	Surface	1	10:29	8.35	8.26	30.97	21.06	4.1	9
B3	20221230	Sunny	Moderate	Mid-Ebb	Surface	1	10:29	8.28	8.28	31.14	21.08	4.5	5
B3	20221230	Sunny	Moderate	Mid-Ebb	Bottom	3.9	10:28	8.24	8.27	31.2	21.07	4.7	8
B3	20221230	Sunny	Moderate	Mid-Ebb	Bottom	3.9	10:28	8.28	8.28	31.21	21.03	4.2	6
B4	20221230	Sunny	Moderate	Mid-Ebb	Surface	1	10:19	8.5	8.28	31.48	20.99	4.7	6
B4	20221230	Sunny	Moderate	Mid-Ebb	Surface	1	10:19	8.47	8.24	31.66	21.08	4.5	8
B4	20221230	Sunny	Moderate	Mid-Ebb	Bottom	3.1	10:18	8.51	8.28	31.48	21.1	5.2	9
B4	20221230	Sunny	Moderate	Mid-Ebb	Bottom	3.1	10:18	8.53	8.24	31.55	21.07	4.5	8
C1A	20221230	Sunny	Moderate	Mid-Ebb	Surface	1	08:23	8.34	8.26	31.47	21.01	5.7	10
C1A	20221230	Sunny	Moderate	Mid-Ebb	Surface	1	08:23	8.23	8.23	31.31	20.93	5.8	6
C1A	20221230	Sunny	Moderate	Mid-Ebb	Middle	5.05	08:22	8.34	8.27	31.39	21	5.9	4
C1A	20221230	Sunny	Moderate	Mid-Ebb	Middle	5.05	08:22	8.2	8.27	31.5	20.9	6.1	7
C1A	20221230	Sunny	Moderate	Mid-Ebb	Bottom	9.1	08:21	8.24	8.26	31.42	20.91	6.2	9
C1A	20221230	Sunny	Moderate	Mid-Ebb	Bottom	9.1	08:21	8.28	8.26	31.55	21	6.1	5
C2A	20221230	Sunny	Moderate	Mid-Ebb	Surface	1	10:21	9.47	8.32	30.53	20.92	4.4	6
C2A	20221230	Sunny	Moderate	Mid-Ebb	Surface	1	10:21	9.45	8.33	30.48	20.99	4.6	6
C2A	20221230	Sunny	Moderate	Mid-Ebb	Middle	6.2	10:20	9.47	8.33	30.5	21.02	5.0	6
C2A	20221230	Sunny	Moderate	Mid-Ebb	Middle	6.2	10:20	9.44	8.34	30.29	20.91	4.7	6
C2A	20221230	Sunny	Moderate	Mid-Ebb	Bottom	11.4	10:19	9.47	8.34	30.36	20.96	5.5	6
C2A	20221230	Sunny	Moderate	Mid-Ebb	Bottom	11.4	10:19	9.46	8.34	30.49	20.95	5.7	9
CR1	20221230	Sunny	Moderate	Mid-Ebb	Surface	1	09:58	8.56	8.24	31.51	21.18	4.0	7
CR1	20221230	Sunny	Moderate	Mid-Ebb	Surface	1	09:58	8.59	8.26	31.49	21.08	3.9	6
CR1	20221230	Sunny	Moderate	Mid-Ebb	Middle	6.2	09:57	8.57	8.27	31.6	21.16	4.0	7
CR1	20221230	Sunny	Moderate	Mid-Ebb	Middle	6.2	09:57	8.54	8.26	31.61	21.18	4.5	7
CR1	20221230	Sunny	Moderate	Mid-Ebb	Bottom	11.4	09:56	8.55	8.27	31.54	21.21	4.8	5
CR1	20221230	Sunny	Moderate	Mid-Ebb	Bottom	11.4	09:56	8.62	8.28	31.39	21.15	4.6	3
CR2	20221230	Sunny	Moderate	Mid-Ebb	Surface	1	09:43	8.56	8.23	30.95	21.22	5.3	7
CR2	20221230	Sunny	Moderate	Mid-Ebb	Surface	1	09:43	8.52	8.26	31	21.14	4.9	7
CR2	20221230	Sunny	Moderate	Mid-Ebb	Middle	5.6	09:42	8.5	8.23	30.96	21.23	5.9	11
CR2	20221230	Sunny	Moderate	Mid-Ebb	Middle	5.6	09:42	8.66	8.23	31.08	21.25	5.6	8
CR2	20221230	Sunny	Moderate	Mid-Ebb	Bottom	10.2	09:41	8.67	8.25	30.94	21.14	5.7	4
CR2	20221230	Sunny	Moderate	Mid-Ebb	Bottom	10.2	09:41	8.6	8.26	30.99	21.12	5.9	6
F1A	20221230	Sunny	Moderate	Mid-Ebb	Surface	1	09:41	9.33	8.33	31.77	20.89	3.6	6
F1A	20221230	Sunny	Moderate	Mid-Ebb	Surface	1	09:41	9.26	8.35	32.01	20.98	3.5	7
F1A	20221230	Sunny	Moderate	Mid-Ebb	Middle	4.35	09:40	9.37	8.28	31.92	20.89	3.9	5
F1A	20221230	Sunny	Moderate	Mid-Ebb	Middle	4.35	09:40	9.34	8.32	31.84	20.89	3.8	6
F1A	20221230	Sunny	Moderate	Mid-Ebb	Bottom	7.7	09:39	9.31	8.28	31.89	20.93	4.3	9
F1A	20221230	Sunny	Moderate	Mid-Ebb	Bottom	7.7	09:39	9.34	8.33	31.87	20.94	4.3	7
H1	20221230	Sunny	Moderate	Mid-Ebb	Surface	1	09:30	8.75	8.26	31.47	21.25	4.0	6
H1	20221230	Sunny	Moderate	Mid-Ebb	Surface	1	09:30	8.74	8.32	31.31	21.23	3.8	8

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pН	Sal (ppt)	Temp (℃)	Turbidty (NTU) Note 1	SS (mg/L)
H1	20221230	Sunny	Moderate	Mid-Ebb	Middle	4.4	09:29	8.67	8.32	31.54	21.28	4.0	8
H1	20221230	Sunny	Moderate	Mid-Ebb	Middle	4.4	09:29	8.71	8.32	31.44	21.21	4.2	11
H1	20221230	Sunny	Moderate	Mid-Ebb	Bottom	7.8	09:28	8.73	8.31	31.49	21.23	4.7	8
H1	20221230	Sunny	Moderate	Mid-Ebb	Bottom	7.8	09:28	8.84	8.32	31.45	21.19	4.3	6
M1	20221230	Sunny	Moderate	Mid-Ebb	Surface	1	09:13	9.04	8.28	30.29	21.01	3.7	8
M1	20221230	Sunny	Moderate	Mid-Ebb	Surface	1	09:13	9.11	8.27	30.38	20.97	3.2	7
M1	20221230	Sunny	Moderate	Mid-Ebb	Middle	4.55	09:12	8.94	8.23	30.3	21.04	3.8	8
M1	20221230	Sunny	Moderate	Mid-Ebb	Middle	4.55	09:12	9.07	8.25	30.29	21.06	3.6	8
M1	20221230	Sunny	Moderate	Mid-Ebb	Bottom	8.1	09:11	8.98	8.24	30.36	21.06	4.5	7
M1	20221230	Sunny	Moderate	Mid-Ebb	Bottom	8.1	09:11	9.11	8.28	30.54	21.02	4.9	7
B1	20221230	Sunny	Moderate	Mid-Flood	Surface	1	13:35	8.52	8.27	30.51	20.26	3.7	8
B1	20221230	Sunny	Moderate	Mid-Flood	Surface	1	13:35	8.41	8.31	30.7	20.26	3.4	9
B1	20221230	Sunny	Moderate	Mid-Flood	Bottom	3.8	13:34	8.52	8.27	30.58	20.2	3.7	8
B1	20221230	Sunny	Moderate	Mid-Flood	Bottom	3.8	13:34	8.52	8.27	30.71	20.14	3.5	7
B2	20221230	Sunny	Moderate	Mid-Flood	Surface	1	13:51	8.59	8.25	30.84	20.16	3.0	9
B2	20221230	Sunny	Moderate	Mid-Flood	Surface	1	13:51	8.72	8.29	30.75	20.12	3.1	8
B2	20221230	Sunny	Moderate	Mid-Flood	Bottom	4.1	13:50	8.64	8.26	30.72	20.3	3.5	8
B2	20221230	Sunny	Moderate	Mid-Flood	Bottom	4.1	13:50	8.68	8.29	30.73	20.1	3.2	6
B3	20221230	Sunny	Moderate	Mid-Flood	Surface	1	13:25	8.86	8.32	31.41	20.25	4.1	12
B3	20221230	Sunny	Moderate	Mid-Flood	Surface	1	13:25	8.78	8.33	31.34	20.26	3.7	9
B3	20221230	Sunny	Moderate	Mid-Flood	Bottom	3.8	13:24	8.85	8.24	31.34	20.14	4.7	11
B3	20221230	Sunny	Moderate	Mid-Flood	Bottom	3.8	13:24	8.87	8.25	31.41	20.18	4.3	7
B4	20221230	Sunny	Moderate	Mid-Flood	Surface	1	13:35	8.59	8.31	31.77	20.13	4.3	10
B4	20221230	Sunny	Moderate	Mid-Flood	Surface	1	13:35	8.6	8.34	31.73	20.18	4.1	9
B4	20221230	Sunny	Moderate	Mid-Flood	Bottom	3.5	13:34	8.6	8.26	31.74	20.3	5.0	9
B4	20221230	Sunny	Moderate	Mid-Flood	Bottom	3.5	13:34	8.57	8.34	31.66	20.26	5.1	7
C1A	20221230	Sunny	Moderate	Mid-Flood	Surface	1	13:13	8.45	8.28	30.4	20.13	5.0	6
C1A	20221230	Sunny	Moderate	Mid-Flood	Surface	1	13:13	8.71	8.28	30.44	20.3	5.1	7
C1A	20221230	Sunny	Moderate	Mid-Flood	Middle	5.45	13:12	8.75	8.31	30.6	20.22	4.9	7
C1A	20221230	Sunny	Moderate	Mid-Flood	Middle	5.45	13:12	8.74	8.32	30.62	20.1	5.3	8
C1A	20221230	Sunny	Moderate	Mid-Flood	Bottom	9.9	13:11	8.46	8.31	30.59	20.26	5.8	9
C1A	20221230	Sunny	Moderate	Mid-Flood	Bottom	9.9	13:11	8.49	8.32	30.47	20.24	5.7	7
C2A	20221230	Sunny	Moderate	Mid-Flood	Surface	1	13:13	9.46	8.34	31.11	20.2	5.7	7
C2A	20221230	Sunny	Moderate	Mid-Flood	Surface	1	13:13	9.46	8.35	31.03	20.21	5.9	8
C2A	20221230	Sunny	Moderate	Mid-Flood	Middle	5.65	13:12	9.52	8.34	31.02	20.13	6.3	12
C2A	20221230	Sunny	Moderate	Mid-Flood	Middle	5.65	13:12	9.55	8.34	31.11	20.21	5.9	8
C2A	20221230	Sunny	Moderate	Mid-Flood	Bottom	10.3	13:11	9.58	8.33	31.08	20.14	6.8	7
C2A	20221230	Sunny	Moderate	Mid-Flood	Bottom	10.3	13:11	9.6	8.34	30.9	20.26	6.3	4
CR1	20221230	Sunny	Moderate	Mid-Flood	Surface	1	14:44	9.19	8.34	32.07	20.23	3.6	9
CR1	20221230	Sunny	Moderate	Mid-Flood	Surface	1	14:44	9.09	8.35	32.23	20.25	3.6	9

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	pH	Sal (ppt)	Temp (°C)	Turbidty (NTU) Note 1	SS (mg/L)
CR1	20221230	Sunny	Moderate	Mid-Flood	Middle	6.25	14:43	9.05	8.34	32.2	20.27	3.7	13
CR1	20221230	Sunny	Moderate	Mid-Flood	Middle	6.25	14:43	9.19	8.36	32.23	20.27	4.0	8
CR1	20221230	Sunny	Moderate	Mid-Flood	Bottom	11.5	14:42	9.12	8.34	32.06	20.24	4.4	9
CR1	20221230	Sunny	Moderate	Mid-Flood	Bottom	11.5	14:42	9.17	8.34	32.02	20.21	4.2	5
CR2	20221230	Sunny	Moderate	Mid-Flood	Surface	1	14:31	9.47	8.33	31.68	20.28	5.1	16
CR2	20221230	Sunny	Moderate	Mid-Flood	Surface	1	14:31	9.57	8.33	31.59	20.27	4.7	13
CR2	20221230	Sunny	Moderate	Mid-Flood	Middle	5.35	14:30	9.49	8.24	31.62	20.29	4.6	9
CR2	20221230	Sunny	Moderate	Mid-Flood	Middle	5.35	14:30	9.46	8.31	31.73	20.21	5.1	14
CR2	20221230	Sunny	Moderate	Mid-Flood	Bottom	9.7	14:29	9.55	8.29	31.73	20.28	5.3	5
CR2	20221230	Sunny	Moderate	Mid-Flood	Bottom	9.7	14:29	9.53	8.34	31.69	20.25	4.9	6
F1A	20221230	Sunny	Moderate	Mid-Flood	Surface	1	14:01	8.97	8.28	31.25	20.26	4.1	12
F1A	20221230	Sunny	Moderate	Mid-Flood	Surface	1	14:01	8.88	8.32	31.32	20.3	4.0	8
F1A	20221230	Sunny	Moderate	Mid-Flood	Middle	4.4	14:00	8.83	8.28	31.4	20.24	4.2	5
F1A	20221230	Sunny	Moderate	Mid-Flood	Middle	4.4	14:00	8.95	8.31	31.28	20.17	3.9	6
F1A	20221230	Sunny	Moderate	Mid-Flood	Bottom	7.8	13:59	8.91	8.26	31.33	20.1	5.0	10
F1A	20221230	Sunny	Moderate	Mid-Flood	Bottom	7.8	13:59	8.89	8.28	31.37	20.24	4.8	8
H1	20221230	Sunny	Moderate	Mid-Flood	Surface	1	14:19	8.78	8.24	30.79	20.17	4.0	6
H1	20221230	Sunny	Moderate	Mid-Flood	Surface	1	14:19	8.76	8.25	30.62	20.2	4.1	8
H1	20221230	Sunny	Moderate	Mid-Flood	Middle	4.05	14:18	8.78	8.3	30.65	20.16	4.8	8
H1	20221230	Sunny	Moderate	Mid-Flood	Middle	4.05	14:18	8.7	8.34	30.6	20.2	4.6	10
H1	20221230	Sunny	Moderate	Mid-Flood	Bottom	7.1	14:17	8.76	8.32	30.64	20.28	5.3	11
H1	20221230	Sunny	Moderate	Mid-Flood	Bottom	7.1	14:17	8.76	8.33	30.63	20.12	4.9	7
M1	20221230	Sunny	Moderate	Mid-Flood	Surface	1	13:26	8.49	8.25	31.46	20.23	4.9	5
M1	20221230	Sunny	Moderate	Mid-Flood	Surface	1	13:26	8.49	8.25	31.29	20.26	4.9	4
M1	20221230	Sunny	Moderate	Mid-Flood	Middle	3.95	13:25	8.52	8.24	31.47	20.11	5.5	3
M1	20221230	Sunny	Moderate	Mid-Flood	Middle	3.95	13:25	8.62	8.29	31.42	20.17	5.6	6
M1	20221230	Sunny	Moderate	Mid-Flood	Bottom	6.9	13:24	8.54	8.28	31.5	20.12	5.7	10
M1	20221230	Sunny	Moderate	Mid-Flood	Bottom	6.9	13:24	8.63	8.32	31.41	20.18	6.1	7

Remark:

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

# Appendix E HOKLAS Laboratory Certificate

Integrated Waste Management Facilities, Phase 1



Hong Kong Accreditation Service 香港認可處

### Certificate of Accreditation 認可證書

This is to certify that 特此證明

#### ALS TECHNICHEM (HK) PTY LIMITED

11/F., Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, New Territories, Hong Kong 香港新界葵涌永業街1-3號忠信針織中心11樓

has been accepted by the HKAS Executive, on the recommendation of the Accreditation Advisory Board, as a 為香港認可處執行機關根據認可證詢委員會建議而接受的

#### HOKLAS Accredited Laboratory 「香港實驗所認可計劃」認可實驗所

This laboratory meets the requirements of ISO / IEC 17025 : 2005 – General requirements for the competence 此實驗所符合ISO / IEC 17025 : 2005 – 《測試及校正實驗所能力的通用規定》所訂的要求。 of testing and calibration laboratories and it has been accredited for performing specific tests or calibrations as 獲認可進行載於香港實驗所認可計劃《認可實驗所名冊》內下這測試類別中的指定 listed in the HOKLAS Directory of Accredited Laboratories within the test category of 測試或校正工作

> Environmental Testing 環境測試

This laboratory is accredited in accordance with the recognized international Standard ISO / IEC 17025 : 2005. 本實驗所乃相違公認的國際標準 ISO / IEC 17025 : 2005 獲得證可。 This accreditation demonstrates technical compatence for a defined scope and the operation of a laboratory 道項證可資格源示在指定範疇所需的技術能力及實驗所質量增加量於的運作 quality management system (see joint IAF-ILAC-ISO Computingue). (見國際認可論權、國際實驗所認可合作證職及國際標準化組織的融合公報)。

The common seal of the Hong Kong Accreditation Service is affixed hereto by the authority of the HKAS Executive 香港認可處執行機關的權限在此蓋上通用印章

CHAN Sing Sing, Terence, Executive Administrator 執行幹事 陳成城 Issue Date: 5 May 2009 簽發日期:二零零九年五月五日

Registration Number: HOKLAS 066 註冊號碼:



Date of First Registration: 15 September 1995 首次註冊日期:一九九五年九月十五日

This certilicate is issued sobject to the torms and conditions laid down by HKAS 本證書按照香港銀可處訂立的條款及條件發出 L 000552

Contract No. EP/SP/66/12

Integrated Waste Management Facilities, Phase 1

Keppel Seghers - Zhen Hua Joint Venture



Hong Kong Accreditation Service 香港認可處

### Certificate of Accreditation 認可證書

This is to certify that 特此證明

#### ACUMEN LABORATORY AND TESTING LIMITED

浩科檢測中心有限公司

Lot 12, Tam Kon Shan Road, North Tsing Yi, New Territories, Hong Kong 香港新界青衣北担杆山路12路段

has been accepted by the HKAS Executive, on the recommendation of the Accreditation Advisory Board, as a 在認可諮詢委員會的建議下獲香港認可處執行機關接受為

#### HOKLAS Accredited Laboratory

「香港實驗所認可計劃」認可實驗所

This laboratory meets the requirements of ISO/IEC 17025:2005 and it has been accredited for performing specific tests or calibrations as listed in the scope of accreditation within the test category of

**Environmental Testing** 

此實驗所符合ISO/IEC 17025:2005所訂的要求 並獲認可進行載於認可範圍內下述測試類別中的指定測試成校正工作

環境測試

This accreditation to ISO/IEC 17025:2005 demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (see joint IAF-ILAC-ISO Communiqué). 此項 ISO/IEC 17025:2005 的認可資格證明此實驗所與借指定範疇內所須的技術能力並 實施一套實驗所質量管理麵系(見圖際認可論握、圖際實驗所認可合作組織及圖際標準化組織的聯合公經)。

The common seal of the Hong Kong Accreditation Service is affixed hereto by the authority of the HKAS Executive 現經香港認可處執行機關授權在此蓋上香港認可處的印章

WONG Wang-wh, Executive Administrator 執行幹事 黃宏華 Issue Date: 16 July 2014 簽發日期:二零一四年七月十六日 Registration Number: 註冊號碼:

This certificate is issued subject to the terms and conditions laid down by HKAS. 本證書按照書港師可處訂立的條款及條件登出



Date of First Registration: 16 July 2014 首次註冊日期:二零一四年七月十六日

L 001195

# Appendix F Water Quality Equipment Calibration Certificate



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

Unit 10, 14/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. Date of Issue Page No. : R-BB090110 : 29 September 2022 : 1 of 2

#### **PART A - CUSTOMER INFORMATION**

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

#### **PART B - SAMPLE INFORMATION**

Name of Equipment :	YSI ProDSS (Multi-Parameters)	
Manufacturer :	YSI (a xylem brand)	
Serial Number :	22C106561	
Date of Received :	27 September 2022	
Date of Calibration :	27 September 2022	
Date of Next Calibration :	26 December 2022	
Request No. :	D-BB090110	

#### PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Reference Method
APHA 21e 4500 H ⁺
Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March
2008: Working Thermometer Calibration Procedure
APHA 21e 2520 B
APHA 21e 4500 O
APHA 21e 2130 B
A A A A

#### PART D - CALIBRATION RESULT

#### (1) pH value

Target ( pH unit )	Display Reading ( pH unit )	Tolerance	Result
4.00	4.00	0.00	Satisfactory
7.42	7.42	0.00	Satisfactory
10.01	10.09	0.08	Satisfactory

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

#### (2) Temperature

Reading of Ref. thermometer ( °C )	Display Reading ( °C )	Tolerance	Result
16	15.4	-0.6	Satisfactory
26	25.5	-0.5	Satisfactory
45	44.6	-0.4	Satisfactory

Tolerance of Temperature should be less than  $\pm 2.0$  ( °C )

#### (3) Salinity

Expected Reading (g/L)	Display Reading ( g/L )	Tolerance ( % )	Result
10	9.68	-3.20	Satisfactory
20	20.20	1.00	Satisfactory
30	31.43	4.77	Satisfactory

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

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun-hing

Assistant Manager (Chemical Testing)

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## **REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION**

Test Report No.	
Date of Issue	
Page No.	

: R-BB090110 : 29 September 2022 : 2 of 2

#### (4) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result
7.58	7.63	0.05	Satisfactory
5.05	4.80	-0.25	Satisfactory
2.99	2.71	-0.28	Satisfactory
0.90	0.61	-0.29	Satisfactory

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

#### (5) Turbidity

Expected Reading (NTU)	Display Reading ( NTU )	Tolerance (%)	Result
0	0.90		Satisfactory
10	10.40	4.0	Satisfactory
20	20.90	4.5	Satisfactory
100	101.77	1.8	Satisfactory
800	807.66	1.0	Satisfactory

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

#### Remark(s)

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

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

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

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

--- END OF REPORT ----

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

業化驗有限公司

## **REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION**

Test Report No. Date of Issue Page No. : R-BB110080 : 30 November 2022 : 1 of 2

#### **PART A - CUSTOMER INFORMATION**

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

#### PART B - SAMPLE INFORMATION

Name of Equipment :	HORIBA U-53
Manufacturer :	HORIBA
Serial Number :	NEKVM2XU
Date of Received :	24 November 2022
Date of Calibration :	29 November 2022
Date of Next Calibration :	28 February 2023
Request No. :	D-BB110080

#### PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

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

#### PART D - CALIBRATION RESULT

#### (1) pH value

Target ( pH unit )	Display Reading ( pH unit )	Tolerance	Result
4.00	4.06	0.06	Satisfactory
7.42	7.51	0.09	Satisfactory
10.01	9.82	-0.19	Satisfactory

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

#### (2) Temperature

Reading of Ref. thermometer ( °C )	Display Reading ( °C )	Tolerance	Result
13	14.36	1.36	Satisfactory
24	25.45	1.45	Satisfactory
31	31.90	0.90	Satisfactory

Tolerance of Temperature should be less than  $\pm$  2.0 ( °C )

#### (3) Salinity

Expected Reading (g/L)	Display Reading ( g/L )	Tolerance (%)	Result
10	9.84	-1.60	Satisfactory
20	18.91	-5.45	Satisfactory
30	27.97	-6.77	Satisfactory

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

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun-ning

Assistant Manager (Chemical Testing)

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## **REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION**

Test Report No.	:
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: R-BB110080 : 30 November 2022 : 2 of 2

#### (4) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result
8.01	7.96	-0.05	Satisfactory
5.43	5.67	0.24	Satisfactory
2.06	2.39	0.33	Satisfactory
0.55	0.21	-0.34	Satisfactory

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

#### (5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance ( % )	Result
0	0.60		Satisfactory
10	9.60	-4.0	Satisfactory
20	18.1	-9.5	Satisfactory
100	99.9	-0.1	Satisfactory
800	775	-3.1	Satisfactory

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

#### Remark(s)

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

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

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

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

--- END OF REPORT ---



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## **REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION**

Test Report No.	
Date of Issue	
Page No.	

: R-BB110035 : 17 November 2022 : 1 of 2

#### **PART A - CUSTOMER INFORMATION**

Acuity Sustainability Consulting Limited

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

#### PART B - SAMPLE INFORMATION

Name of Equipment :	HORIBA U-53
Manufacturer :	HORIBA
Serial Number :	PPHNOMXY
Date of Received :	16 November 2022
Date of Calibration :	16 November 2022
Date of Next Calibration :	16 February 2023
Request No. :	D-BB110035

#### PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

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

#### **PART D - CALIBRATION RESULT**

#### (1) pH value

Target ( pH unit )	Display Reading ( pH unit )	Tolerance	Result
4.00	4.15	0.15	Satisfactory
7.42	7.34	-0.08	Satisfactory
10.01	9.92	-0.09	Satisfactory

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

#### (2) Temperature

Reading of Ref. thermometer (°C)	Display Reading ( °C )	Tolerance	Result
14	15.45	1.45	Satisfactory
21	21.44	0.44	Satisfactory
34	34.68	0.68	Satisfactory

Tolerance of Temperature should be less than  $\pm$  2.0 ( °C )

#### (3) Salinity

Expected Reading (g/L)	Display Reading ( g/L )	Tolerance (%)	Result
10	9.61	-3.90	Satisfactory
20	21.04	5.20	Satisfactory
30	32.03	6.77	Satisfactory

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

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun-ning

Assistant Manager (Chemical Testing)

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

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## **REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION**

Test Report No.
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#### (4) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result
7.88	7.70	-0.18	Satisfactory
4.52	5.00	0.48	Satisfactory
1.43	1.00	-0.43	Satisfactory
0.00	0.03	0.03	Satisfactory

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

#### (5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	0.00		Satisfactory
10	9.80	-2.0	Satisfactory
20	19.5	-2.5	Satisfactory
100	104	4.0	Satisfactory
800	811	1.4	Satisfactory

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

#### Remark(s)

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

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

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

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

--- END OF REPORT ---

Appendix G Event / Action Plan for Water Quality Exceedance

Event		Act	ion	
	ET	IEC	SO	Contractor
Action level being exceeded by one sampling day	Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; Repeat measurement on next day of exceedance. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the SO accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the SO and confirm notification of the non- compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and SO within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)
Action level being exceeded by more than one consecutive sampling days	Identify source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; Repeat measurement on next working day of exceedance. (The above actions should be taken within 1 working day after Action Level being exceeded by two consecutive sampling days)	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the SO accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after Action Level being exceeded by two consecutive sampling days)	Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented. Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after Action Level being exceeded by two consecutive sampling days)	Inform the SO and confirm notification of the non- compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and SO within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after Action Level being exceeded by two consecutive sampling days)

Contract No. EP/SP/66/12 Integrated Waste Management Facilities, Phase 1

Keppel Seghers – Zhen Hua Joint Venture

Event		Ac	tion	
	ET	IEC	SO	Contractor
Limit level	Inform the SO and confirm	Discuss with ET and	Discuss with IEC, ET and	Inform the SO and confirm
being exceeded	notification of the non-	Contractor on the mitigation	Contractor on the proposed	notification of the non-
by one	compliance in writing;	measures;	mitigation measures;	compliance in writing;
sampling day	Rectify unacceptable practice;	Review proposals on	Request Contractor to	Rectify unacceptable practice;
	Check all plant and	mitigation measures submitted	critically review the working	Check all plant and
	equipment;	by Contractor and advise the	methods;	equipment;
	Consider changes of working	SO accordingly;	Make agreement on the	Consider changes of working
	methods;	Assess the effectiveness of	mitigation measures to be	methods;
	Discuss with Contractor, IEC	the implemented mitigation	implemented.	Discuss with ET, IEC and SO
	and SO and propose	measures.	Assess the effectiveness of	and propose mitigation
	mitigation measures to IEC	(The above actions should be	the implemented measures.	measures to IEC and SO
	and SO within 3 working days;	taken within 1 working day	(The above actions should be	within 3 working days;
	Implement the agreed	after the exceedance is	taken within 1 working day	Implement the agreed
	mitigation measures.	identified)	after the exceedance is	mitigation measures.
	(The above actions should be		identified)	(The above actions should be
	taken within 1 working day			taken within 1 working day
	after the exceedance is			after the exceedance is
	identified)			identified)

Event		Act	ion	
	ET	IEC	SO	Contractor
Limit level	Identify source(s) of impact;	Discuss with ET and	Discuss with IEC, ET and	Inform the SO and confirm
being exceeded	Inform IEC, Contractor and	Contractor on the mitigation	Contractor on the proposed	notification of the non-
by more than	EPD;	measures;	mitigation measures;	compliance in writing;
one	Check monitoring data, all	Review proposals on	Request Contractor to	Rectify unacceptable practice;
consecutive	plant, equipment and	mitigation measures submitted	critically review the working	Check all plant and
sampling days	Contractor's working methods.	by Contractor and advise the	methods;	equipment;
	Discuss mitigation measures	SO accordingly;	Make agreement on the	Consider changes of working
	with IEC, SO and Contractor.	Assess the effectiveness of	mitigation measures to be	methods;
	Ensure mitigation measures	the implemented mitigation	implemented.	Discuss with ET, IEC and SO
	are implemented;	measures.	Assess the effectiveness of	and propose mitigation
	Increase the monitoring	(The above actions should be	the implemented measures.	measures to IEC and SO
	frequency to daily until no	taken within 1 working day	Consider and instruct, if	within 3 working days;
	exceedance of Limit level for	after Limit Level being	necessary, the Contractor to	Implement the agreed
	two consecutive days.	exceeded by two consecutive	slow down or to stop all or part	mitigation measures;
	(The above actions should be	sampling days)	of the marine work until no	As directed by the SOR, to
	taken within 1 working day		exceedance of Limit level.	slow down or to stop all or part
	after Limit Level being		(The above actions should be	of the marine work or
	exceeded by two consecutive		taken within 1 working day	construction activities.
	sampling days)		after Limit Level being	(The above actions should be
			exceeded by two consecutive	taken within 1 working day
			sampling days)	after Limit Level being
				exceeded by two consecutive
				sampling days)

# Appendix H Noise Monitoring Equipment Calibration Certificate

# **Certificate of Calibration**

## for

Description:	Sound Level Meter
Manufacturer:	SVANTEK
Type No.:	971 (Serial No.: 96063)
Microphone:	ACO 7052 E (Serial No.: 78092)
Preamplifier:	SVANTEK SV 18 (Serial No.:97278)

## 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:

$\checkmark$	Within
	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: 21 June 2022

Date of calibration: 27 June 2022

Date of NEXT calibration: 26 June 2023

Calibrated by: alibration Technician

Date of issue: 27 June 2022

Certificate No.: APJ22-029-CC001

Certified by:

Mr. Tang Cheuk Hang Quality Manager



Page 1 of 4

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

## 1. Calibration Precaution:

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

## 2. Calibration Conditions:

Air Temperature:	24.2 °C
Air Pressure:	1004 <b>hPa</b>
<b>Relative Humidity:</b>	60.8 %

## 3. Calibration Equipment:

	Туре	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV200041	HOKLAS

## 4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Setting of Unit-under-test (UUT) App		Appl	ied value	UUT Reading,	IEC 61672 Class 1		
Range, dB	Freq. W	eighting	ghting Time Weighting Level, dB Frequency, H		Frequency, Hz	dB	Specification, dB
25-124.5	dBA	SPL	Fast	94	1000	93.7	±0.4

Linearity

Setting of Unit-under-test (UUT)			App	lied value	UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		93.7	Ref
25-124.5	dBA	SPL	Fast	104	1000	103.7	±0.3
				114		113.7	±0.3

Time Weighting

Setting of Unit-under-test (UUT)		Applied value		UUT Reading,	IEC 61672 Class 1		
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
25-124.5	A CIL	CDI	Fast	94	1000	93.7	Ref
23-124.5	dBA	SPL	Slow	94	1000	93.7	±0.3

Certificate No.: APJ22-029-CC001



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Frequency Response

## Linear Response

Sett	ing of Unit	t-under-t	est (UUT)	Appl	Applied value		IEC 61672 Class 1
Range, dB	Freq. We	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	94.1	±2.0
					63	94.0	±1.5
					125	94.0	±1.5
					250	94.0	±1.4
25-124.5	dB	SPL	Fast	94	500	93.9	±1.4
					1000	93.7	Ref
					2000	93.7	±1.6
					4000	95.5	±1.6
					8000	92.3	+2.1; -3.1

A-weighting

Setti	ing of Uni	t-under-te	est (UUT)	Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	54.8	-39.4 ±2.0
					63	67.9	-26.2±1.5
					125	77.9	-16.1±1.5
					250	85.3	-8.6±1.4
25-124.5	dBA	SPL	Fast	94	500	90.7	$-3.2 \pm 1.4$
				1000	93.7	Ref	
					2000	95.0	$+1.2 \pm 1.6$
					4000	96.6	$+1.0 \pm 1.6$
					8000	91.3	-1.1+2.1; -3.1

C-weighting

Sett	ing of Uni	t-under-t	est (UUT)	Appl	Applied value		IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	91.1	-3.0 ±2.0
					63	93.2	$-0.8 \pm 1.5$
					125	93.8	-0.2 ±1.5
					250	94.0	$-0.0 \pm 1.4$
25-124.5	dBC	SPL	Fast	94	500	93.9	-0.0±1.4
					1000	93.7	Ref
					2000	93.6	-0.2 ±1.6
					4000	94.8	-0.8±1.6
					8000	89.4	-3.0+2.1; -3.1

Certificate No.: APJ22-029-CC001



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

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

## 5. Calibration Results Applied

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

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.10
	63 Hz	± 0.05
	125 Hz	$\pm 0.05$
	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.



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Certificate No.: APJ22-029-CC001

# **Certificate of Calibration**

## for

Description:	Sound Level Meter
Manufacturer:	SVANTEK
Type No.:	971 (Serial No.: 96062)
Microphone:	ACO 7052 E (Serial No.: 79778)
Preamplifier:	SVANTEK SV 18 (Serial No.:97276)

## 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 (31.5 Hz to 4k Hz)□ 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: 21 June 2022

Date of calibration: 27 June 2022

Date of NEXT calibration: 26 June 2023

Calibrated by: Calibration Technician

Date of issue: 27 June 2022

Certificate No.: APJ22-029-CC002

0 Certified by:

Mr. Tang Cheuk Hang Quality Manager



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F	Room 422, Leader Industrial Centre, 57-59 Au Pui Wan Street	Fo Tan, Shatin, N.T., Hong Kong
	Tel: (852) 2668 3423	Fax:(852)26686946
	Homepage: http://www.aa-lab.com	E-mail: inquiry@aa-lab.com

## 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.

## 1. Calibration Conditions:

Air Temperature:	24.2 °C
Air Pressure:	1004 <b>hPa</b>
<b>Relative Humidity:</b>	60.8 %

## 2. Calibration Equipment:

	Туре	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV200041	HOKLAS

## 3. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Setti	ing of U	nit-under-te	est (UUT)	Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
25-124.5	dBA	SPL	Fast	94	1000	94.0	±0.4

Linearity

Setting of Unit-under-test (UUT)				Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		94.0	Ref
25-124.5	dBA	SPL	Fast	104	1000	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. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
25-124.5		CDI	Fast	94 100	1000	94.0	Ref
	dBA	SA SPL	Slow		1000	94.0	±0.3

Certificate No.: APJ22-029-CC002



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Frequency Response

Linear Response

Setting of Unit-under-test (UUT)			Appl	ied value	UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	94.3	±2.0
					63	94.2	±1.5
			125	94.1	±1.5		
25-124.5	dB	SPL	Fast	94	250	94.1	±1.4
25-124.5	uВ	SFL	rast	94	500	94.0	±1.4
				1000	94.0	Ref	
					2000	93.7	±1.6
					4000	93.1	±1.6

A-weighting

Setting of Unit-under-test (UUT)			Appl	Applied value		IEC 61672 Class 1		
Range, dB	Freq. V	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB	
					31.5	54.9	-39.4 ±2.0	
					63	68.0	-26.2±1.5	
						125	78.0	-16.1±1.5
25-124.5	dBA	SPL	Fast	94	250	85.4	-8.6±1.4	
23-124.3	UDA	SFL	rasi	94	500	90.8	$-3.2 \pm 1.4$	
						1000	94.0	Ref
					2000	94.9	$+1.2 \pm 1.6$	
		-			4000	94.2	$+1.0 \pm 1.6$	

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	91.3	-3.0 ±2.0
					63	93.4	-0.8±1.5
				125	93.9	-0.2±1.5	
25-124.5	dBC	SPL	Fast	94	250	94.1	$-0.0 \pm 1.4$
25-124.5	ubc	SFL	Fast		500	94.1	$-0.0 \pm 1.4$
					1000	94.0	Ref
				2000	93.6	$-0.2 \pm 1.6$	
					4000	92.4	-0.8±1.6

Certificate No.: APJ22-029-CC002



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

## 4. 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	± 0.15
	63 Hz	± 0.05
	125 Hz	± 0.05
	250 Hz	± 0.05
	500 Hz	$\pm$ 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.10
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

Note:

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



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Certificate No.: APJ22-029-CC002



# Certificate of Calibration

## for

Description:	Sound Level Meter
Manufacturer:	SVANTEK
Type No.:	971 (Serial No.: 103482)
Microphone:	ACO 7052E (Serial No.: 79788)
Preamplifier:	SV18 (Serial No.: 103880)

Submitted by:Customer:Acuity Sustainability Consulting LimitedAddress:Unit 1908, Nos. 301-305 Castle Peak Road, Kwai Chung, N.T.

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

✓ Within (31.5 Hz to 4000Hz)□ 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: 9 March 2022

Date of calibration: 11 March 2022

Calibrated by: Calibration Technician

Certified by:

Mr. Ng Yan Wa Laboratory Manager



Certificate No.: APJ21-163-CC001

Date of issue: 11 March 2022

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

## 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 °C
Air Pressure:	1006 <b>hPa</b>
<b>Relative Humidity:</b>	65 %

## 3. Calibration Equipment:

	Туре	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV200041	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
25-124	dBA	SPL	Fast	94	1000	94.0	±0.4

Linearity

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		94.0	Ref
25-124	dBA	SPL	Fast	104	1000	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. V	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
25-124	dBA	SPL	Fast	04	1000	94.0	Ref
25-124	UBA SPL	SFL	Slow	94	94 1000	94.0	±0.3

Certificate No.: APJ21-163-CC001

(A+A) *L Page 2 of 4



Frequency Response

## Linear Response

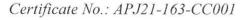
Setting of Unit-under-test (UUT)			Appl	Applied value		IEC 61672 Class 1			
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB		
					31.5	94.4	±2.0		
					63	94.3	±1.5		
				125	94.2	±1.5			
25-124	dB	SPL	Fast	94	250	94.1	±1.4		
23-124	uБ	SPL	Fast	Tasi	Tasi	94	500	94.1	±1.4
					1000	94.0	Ref		
				2000	93.7	±1.6			
					4000	93.0	±1.6		

## A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	55.0	-39.4 ±2.0
					63	68.0	$-26.2 \pm 1.5$
	124 dBA SPL Fast			125	78.0	-16.1±1.5	
25-124		Fast	94	250	85.4	-8.6±1.4	
23-124	UDA	SPL	rasi	94	500	90.8	$-3.2 \pm 1.4$
					1000	94.0	Ref
				2000	94.8	$+1.2 \pm 1.6$	
					4000	94.0	$+1.0 \pm 1.6$

## C-weighting

Setting of Unit-under-test (UUT)				Applied value		UUT Reading,	IEC 61672 Class 1						
Range, dB	Freq. V	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB						
				31.5	91.4	-3.0±2.0							
		C SPL	Fast	94	63	93.5	-0.8±1.5						
25-124					125	94.0	-0.2±1.5						
	dBC				94	250	94.1	$-0.0 \pm 1.4$					
23-124	ube Sri					500	94.1	$-0.0 \pm 1.4$					
											1000	94.0	Ref
					2000	93.6	-0.2 ±1.6						
					4000	92.2	$-0.8 \pm 1.6$						





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

## 5. Calibration Results Applied

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

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.05
	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.



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Certificate No.: APJ21-163-CC001

Certificate No. D224350E



# CALIBRATION CERTIFICATE

Product	1	SOUND CALIBRATOR
Туре	:	NC-75
Serial number	:	34724244
Manufacturer	:	RION CO., LTD.
Calibration quantities	:	Sound pressure level (with reference standard microphone)
Calibration method	:	Measured by specified secondary standard microphone
		according to JCSS calibration procedure specified by RION.
Ambient conditions	:	Temperature 23.9 °C, Relative humidity 49 %,
		Static pressure 99.9 kPa
Calibration date	:	05/07/2022 (DD/MM/YYYY)
Calibration location	:	3-20-41 Higashimotomachi, Kokubunji, Tokyo 185-8533, Japan
		RION CO., LTD. Calibration Room

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

Issue date : 11/07/2022 (DD/MM/YYYY)

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

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

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

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

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

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



Certificate No. D224350E

## CALIBRATION RESULT

### 1. Sound pressure level (with reference standard microphone)

Measured	Expanded
value	uncertainty $*_1$
93.99 dB	0.09 dB

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

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

## BE OUT OF JCSS CALIBRATION

1. Frequency

Measured value	Measurement uncertainty (k=2)	
1000.0 Hz	$3.9 imes10^{\cdot4}\mathrm{Hz}$	

Working measurement standard universal counter: Type : 53132A Serial number : MY40005574 (JCSS Calibration Certificate No. 21081499079575510)

#### 2. Total distortion

Measured
value
0.2 %

Working measurement standard distortion meter: Type : VA-2230A Serial number : 11076061 (A2LA Calibration Certificate No. 1501-03080)

RION

· closing ·

Certificate No. D224349E



# CALIBRATION CERTIFICATE

Product	:	SOUND CALIBRATOR
Туре	:	NC-75
Serial number	:	34724243
Manufacturer	:	RION CO., LTD.
Calibration quantities	:	Sound pressure level (with reference standard microphone)
Calibration method	:	Measured by specified secondary standard microphone
		according to JCSS calibration procedure specified by RION.
Ambient conditions	:	Temperature 23.9 °C, Relative humidity 49 %,
		Static pressure 99.9 kPa
Calibration date	:	05/07/2022 (DD/MM/YYYY)
Calibration location	:	3-20-41 Higashimotomachi, Kokubunji, Tokyo 185-8533, Japan
		RION CO., LTD. Calibration Room

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

Issue date : 11/07/2022 (DD/MM/YYYY)

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

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

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

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

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

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



Certificate No. D224349E

## CALIBRATION RESULT

1. Sound pressure level (with reference standard microphone)

Measured	Expanded
value	uncertainty *1
93.99 dB	0.09 dB

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

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

## BE OUT OF JCSS CALIBRATION

1. Frequency

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

Working measurement standard universal counter: Type : 53132A Serial number : MY40005574 (JCSS Calibration Certificate No. 21081499079575510)

### 2. Total distortion

Measured	
value	
0.2 %	

Working measurement standard distortion meter: Type : VA-2230A Serial number : 11076061 (A2LA Calibration Certificate No. 1501-03080)

· closing ·



# Appendix I Event / Action Plan for Noise Exceedance

Event Action	Actions to be taken by Environmental Team as immediate as practicable	Actions to be taken by Independent Environmental Checker as immediate as practicable 1. Review the investigation results	Actions to be taken by Supervising Officer's Representative as immediate as practicable 1. Confirm receipt of notification of	Actions to be taken by Contractor as immediate as practicable 1. Submit noise mitigation
Level being exceeded	2. Carry out investigation;	<ul> <li>submitted by the ET;</li> <li>Review the proposed remedial measures by the Contractor and advise the SO accordingly;</li> <li>Advise the SO on the effectiveness of the proposed remedial</li> </ul>	failure in writing;	<ul> <li>proposals to IEC and SO;</li> <li>Implement noise mitigation proposals.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified)</li> </ul>
exceeded	<ol> <li>Inform IEC, SO, Contractor and EPD;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency;</li> <li>Identify source and investigate the cause of exceedance;</li> <li>Carry out analysis of Contractor's working procedures;</li> <li>Discuss with the IEC, Contractor and SO on remedial measures required;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and SO informed of the results;</li> <li>If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	actions whenever necessary to assure their effectiveness and advise the SO accordingly. (The above actions should be taken within 2 working days after	<ol> <li>In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>Supervise the implementation of</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC and SO within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Submit further proposal if problem still not under control;</li> <li>Stop the relevant portion of works as instructed by the SO until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>

# Appendix J Noise Monitoring Data

Location:	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 1 (M1 / N_S1)
Monitoring date:	05, 12, 19, 29 December 2022 (Daytime)
	05&06, 12&13, 19&20, 29&30 December 2022 (Evening & Night time)
Parameter :	Leq 30min (Daytime), Leq 5min (Evening & Night time)
Noise source other than construction activities from the Project:	Nil

Noise Monitoring Data:

Date	Start time		End time	Weather	$\frac{L_{eq \ 30min}  dB(A)  / }{L_{eq \ 5min}  dB(A)}$	Sound Level Meter Used	Calibrator Used
05 Dec 2022	13:42	-	14:12	Sunny	58.9	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724244)
05 Dec 2022	19:02	-	19:07	Fine	47.5	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724244)
	20:17	-	20:22		45.7		
	21:37	-	21:42		43.7		
06 Dec 2022	1:27	-	1:32	Fine	40.4	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724244)
	3:17	-	3:22		40.0		
2022	5:22	-	5:27		41.0		
12 Dec 2022	12:56	-	13:26	Fine	65.5	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724244)
12 Daa	19:16	-	19:21	Fine	43.9	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724244)
12 Dec 2022	20:21	-	20:26		41.6		
2022	21:21	-	21:26		42.5		
12 D	1:06	-	1:11	Fine	40.2	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724244)
13 Dec 2022	3:11	-	3:16		39.8		
2022	5:11	-	5:16		42.1		
19 Dec 2022	13:01	-	13:31	Sunny	58.6	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724244)
10.5	19:21	-	19:26	Fine	47.0	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724244)
19 Dec 2022	20:16	-	20:21		44.5		
	21:16	-	21:21		46.1		
20 Dec	1:02	-	1:07	Fine	43.2	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724244)
	3:21	-	3:26		42.1		
2022	5:21	-	5:26		42.6		
29 Dec 2022	13:20	-	13:50	Sunny	59.5	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34724243)
20 D	19:05	-	19:10	Fine	46.0	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34724243)
29 Dec	20:15	-	20:20		44.5		
2022	21:20	-	21:25		43.7		
30 Dec 2022	1:20	-	1:25	Fine	43.4	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34724243)
	3:10	-	3:15		42.8		
	5:20	-	5:25		44.6		

Location:	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 2 (M2 / N_S2)
Monitoring date:	05, 12, 19, 29 December 2022 (Daytime)
	05&06, 12&13, 19&20, 29&30 December 2022 (Evening & Night time)
Parameter :	Leq 30min (Daytime), Leq 5min (Evening & Night time)
Noise source other than construction activities from the Project:	Nil

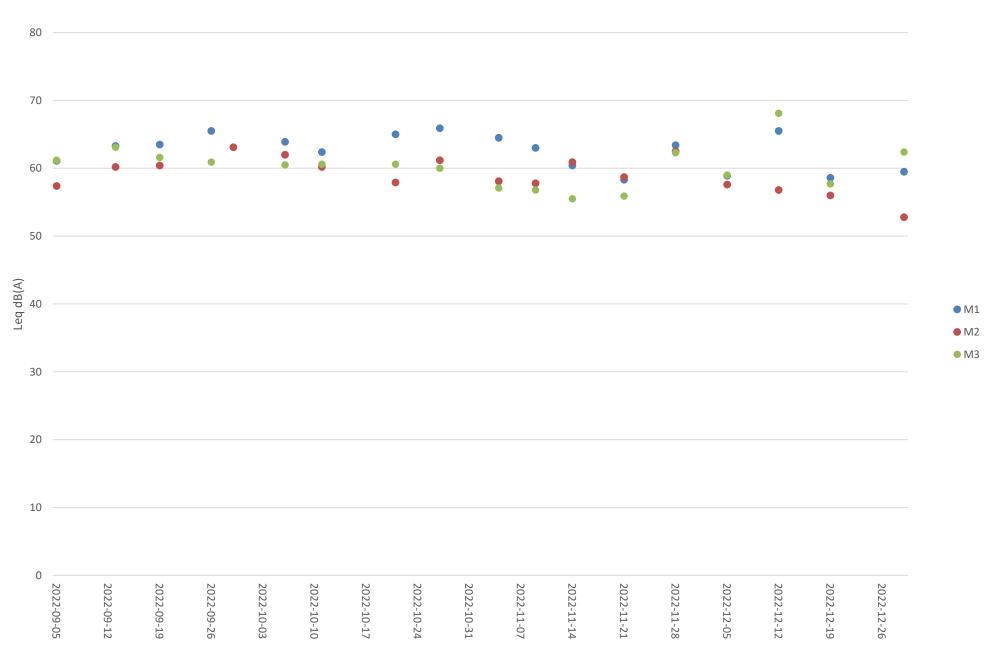
Noise Monitoring Data:

Date	Start time		End time	Weather	$\frac{L_{eq 30min} dB(A)}{L_{eq 5min} dB(A)}$	Sound Level Meter Used	Calibrator Used
05 Dec 2022	13:40	-	14:10	Sunny	57.6	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34724244)
05 Dec 2022	19:25	-	19:30	Fine	49.2	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34724244)
	20:05	-	20:10		48.8		
	21:15	-	21:20		48.5		
06 Dec 2022	1:10	-	1:15	Fine	48.9	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34724244)
	3:15	-	3:20		45.1		
2022	5:10	-	5:15		46.5		
12 Dec 2022	12:34	-	13:04	Fine	56.8	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34724244)
12 D	19:09	-	19:14	Fine	52.9	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34724244)
12 Dec 2022	20:14	-	20:19		55.3		
2022	21:19	-	21:24		53.9		
12 D	1:14	-	1:19	Fine	50.2	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34724244)
13 Dec 2022	3:04	-	3:09		47.7		
2022	5:24	-	5:29		54.7		
19 Dec 2022	13:10	-	13:40	Sunny	56.0	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34724244)
10 D	19:20	-	19:25	Fine	47.4	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34724244)
19 Dec 2022	20:15	-	20:20		46.6		
	21:15	-	21:20		47.7		
20 Dec	1:05	-	1:10	Fine	52.4	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34724244)
20 Dec 2022	3:25	-	3:30		49.9		
2022	5:20	-	5:25		48.0		
29 Dec 2022	13:11	-	13:41	Sunny	52.8	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724243)
29 Dec	19:16	-	19:21	Fine	47.6	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724243)
29 Dec 2022	20:16	-	20:21		49.0		
	21:16	-	21:21		49.1		
30 Dec 2022	1:06	-	1:11	Fine	58.4	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724243)
	3:06	-	3:11		53.4		
	5:11	-	5:16		52.7		

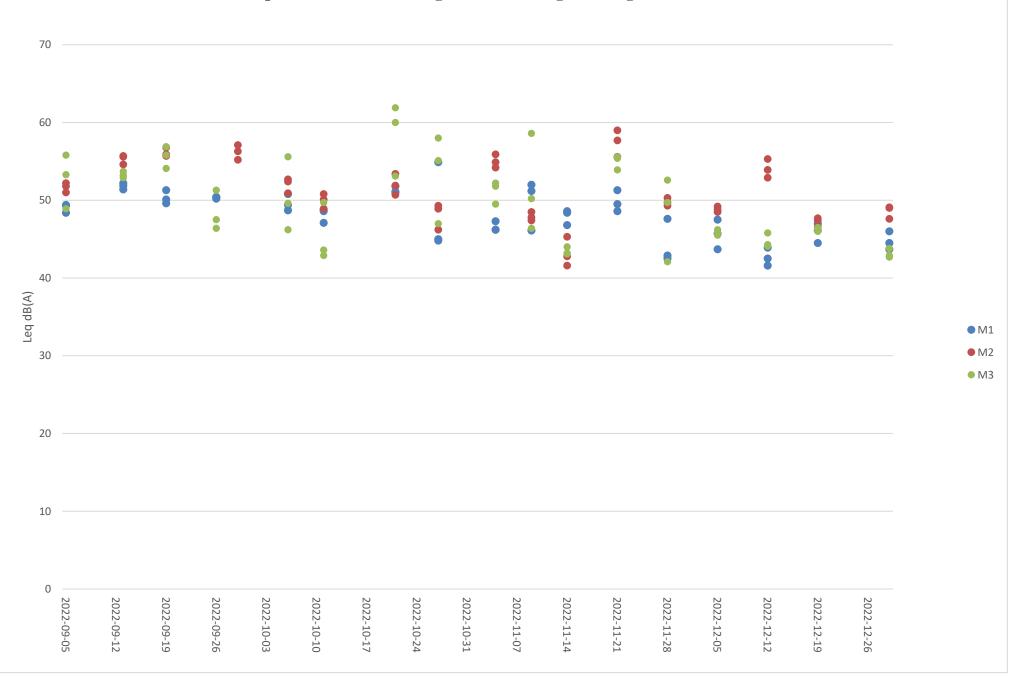
Location:	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 3 (M3 / $N_S3$ )
Monitoring date:	05, 12, 19, 29 December 2022 (Daytime)
	05&06, 12&13, 19&20, 29&30 December 2022 (Evening & Night time)
Parameter :	Leq 30min (Daytime), Leq 5min (Evening & Night time)
Noise source other than construction activities from the Project:	Air-conditioner

Noise Monitoring data:

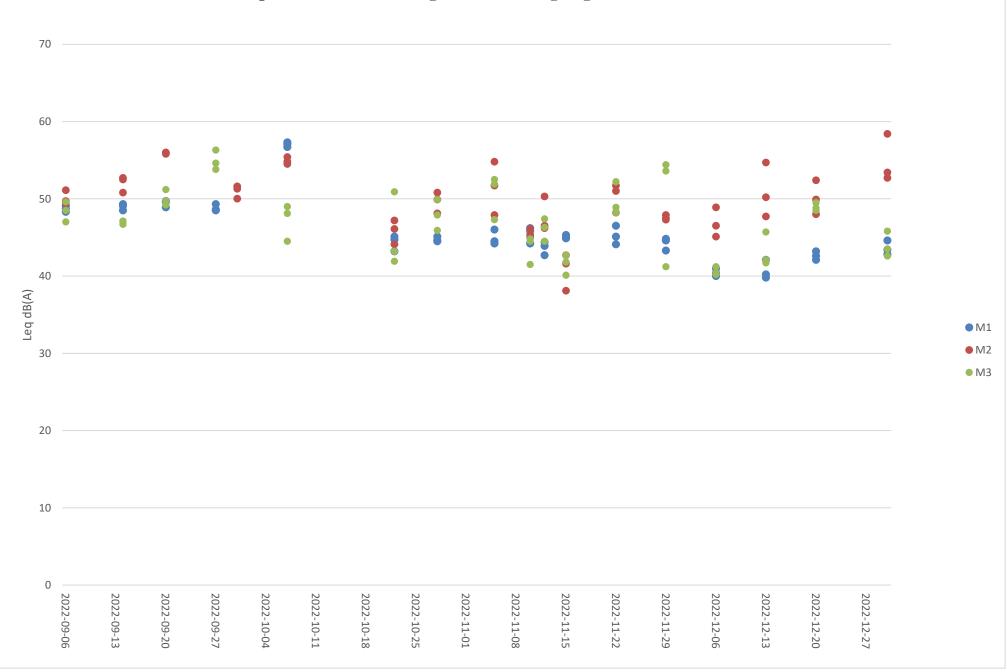
Date	Start time		End time	Weather	$\frac{L_{eq\;30min}dB(A)}{L_{eq\;5min}dB(A)}$	Sound Level Meter Used	Calibrator Used	
05 Dec 2022	13:37	-	14:07	Sunny	59.0	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724244)	
05 Dec	19:17	-	19:22		46.2	SVAN 071 (Seriel	Rion NC-75	
2022	20:17	-	20:22	Fine	45.5	SVAN 971 (Serial No. 96063)	(No.34724244)	
2022	21:22	-	21:27		45.7	NO. 90003)	(100.54724244)	
06 Dec	1:22	-	1:27		40.4	SVAN 971 (Serial	Rion NC-75	
2022	3:12	-	3:17	Fine	40.2	No. 96063)	(No.34724244)	
2022	5:22	-	5:27		41.2	NO. 90003)	(10.34724244)	
12 Dec 2022	12:58	-	13:28	Fine	68.1	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724244)	
12 Daa	19:18	-	19:23		44.3	SVAN 071 (Seriel	Rion NC-75	
12 Dec 2022	20:18	-	20:23	Fine	44.1	SVAN 971 (Serial No. 96063)	(No.34724244)	
2022	21:13	-	21:18		45.8	INO. 90003)	(1N0.34/24244)	
12 D	1:13	-	1:18		41.7	QUAN 071 (Carial	Dian NC 75	
13 Dec 2022	3:18	-	3:23	Fine	42.1	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724244)	
2022	5:18	-	5:23		45.7	INO. 90003)	(10.54724244)	
19 Dec 2022	12:58	-	13:58	Sunny	57.7	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724244)	
10 D	19:18	-	19:23		46.5			
19 Dec	20:18	-	20:18	Fine	46.0	SVAN 971 (Serial	Rion NC-75	
2022	21:13	-	21:28		46.2	No. 96063)	(No.34724244)	
20 D	1:13	-	1:18		48.5		D' NO 75	
20 Dec 2022	3:18	-	3:33	Fine	48.8	SVAN 971 (Serial No. 96063)	Rion NC-75	
2022	5:18	-	5:23		49.5	NO. 90003)	(No.34724244)	
29 Dec 2022	13:21	-	13:51	Sunny	62.4	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724243)	
20 D	19:16	-	19:21		43.8	GVAN 071 (G 1	D' NO 75	
29 Dec 2022	20:21	-	20:26	Fine	42.7	SVAN 971 (Serial	Rion NC-75	
2022	21:21	-	21:26		42.9	No. 96062)	(No.34724243)	
30 Dec	1:06	-	1:11		43.5	SVAN 071 (Serial	Rion NC-75	
30 Dec 2022	3:11	-	3:16	Fine	42.6	SVAN 971 (Serial No. 96062)		
2022	5:11	-	5:16		45.8	NO. 90002)	(No.34724243)	



# **Impact Noise Monitoring Results during Day Time (0700 - 1900 hours)**



# Additional Impact Noise Monitoring Results during Evening Time (1900 - 2300 hours)



# Additional Impact Noise Monitoring Results during Night Time (2300 - 0700 hours)

Appendix K Waste Flow Table



Monthly Summary Waste Flow Table for _____

<u>2018 (year)</u>

Project : Integrated Waste Management Facilities, Phase 1

Contract No.: EP/SP/66/12

		Actual (	Quantities of	f Inert C&D	Materials Ger	nerated Mon	thly		Actual Quantities of C&D Wastes Generated Monthly					
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete (see Note 1)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill (see Note 4)	Imported Fill Sand (see Note 4)	Imported Fill Public fill (see Note 4)	Imported Fill Rock (see Note 4)	Metals (see Note 5)	Paper/ cardboard packaging (see Note 5)	Plastics (see Note 2, 5)	Chemica	l Waste	Others, e.g. general refuse (see Note 3)
	(in ,000m ³ )	(in ,000m ³ )	(in ,000m ³ )	(in ,000m ³	(in ,000m ³ )	(i	$(n,000m^3)$		(in ,000 kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	(in ,000 m ³ )
Jan	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub-total	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0065
Sep	0	0	0	0	0	2.9619	0	0	0	0	0	0	0	0
Oct	0	0	0	0	0	3.0771	0	0	0	0	0	0	0	0.0130
Nov	0	0	0	0	0	6.7871	0	0	0	0	0	0	0	0
Dec	0	0	0	0	0	59.0709	0	0	0	0	0	0.2000	0.8700	0
Total	0	0	0	0	0	71.8970	0	0	0	0	0	0.2000	0.8700	0.0195

Notes:

(1) Broken concrete for recycling into aggregates.

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

(3) Use the conversion factor : 1 full load of dumping truck being equivalent to  $6.5m^3$  by volume.

(4) Use the conversion factor: sand density =  $1.6T/m^3$ , public fill density =  $1.8T/m^3$  and rock density =  $2T/m^3$ 

(5) Materials recycled.



Monthly Summary Waste Flow Table for



2019

(year)

Project : In	Project : Integrated Waste Management Facilities, Phase 1								Contract No.: EP/SP/66/12					
	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly							
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete (see Note 1)	Reused in the Contract	Reused in other Projects	Public Fill (see Note 4)	Imported Fill Sand (see Note 4)	Fill Public fill (see Note 4)	,	Metals (see Note 5)	Paper/ cardboard packaging (see Note 5)	Plastics (see Note 2, 5)	Chemica	l Waste	Others, e.g. general refuse (see Note 3)
	(in ,000m ³ )	$(in,000m^3)$	$(in,000m^3)$	(in ,000m ³	(in ,000m ³ )	(1	in ,000m ³ )	1	(in ,000 kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	$(in,000 m^3)$
Jan	0	0	0	0	0	82.6139	0	0	0	0	0	0	0	0.0065
Feb	0	0	0	0	0	46.7821	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	97.1000	0	0.7552	0	0.2560	0	0	0	0
Apr	0	0	0	0	0	58.0413	0	0	0	0	0	0	0	0
May	0	0	0	0	0	14.5625	0	1.4648	0	0	0	0	0	0.0065
Jun	0	0	0	0	0	0	0	6.8421	0	0	0	0	0	0
Sub-total	0	0	0	0	0	299.0998	0	9.0621	0	0.2560	0	0	0	0.0130
Jul	0	0	0	0	0	0	0	0.4289	0	0	0	0	8.4000	0.0130
Aug	0	0	0	0	0	2.5775	0	10.5600	0	0	0	0	0	0
Sep	0	0	0	0	0	6.1081	0	8.4704	0	0.3530	0	0	0	0.0065
Oct	0	0	0	0	0	9.8875	0	7.1900	0	0	0	0	0	0
Nov	0	0	0	0	0	38.3088	0	19.3105	0	0	0	0	0	0.0195
Dec	0	0	0	0	0	54.3469	0	26.9807	0	0	0	0	0	0.0910
Total	0	0	0	0	0	410.3286	0	82.0026	0	0.6090	0	0	8.4000	0.1430

Broken concrete for recycling into aggregates. Notes: (1)

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

Use the conversion factor : 1 full load of dumping truck being equivalent to  $6.5m^3$  by volume. (3)

Use the conversion factor: sand density =  $1.6T/m^3$ , public fill density =  $1.8T/m^3$  and rock density =  $2T/m^3$ (4)

(5) Materials recycled.



Monthly Summary Waste Flow Table for _____



2020

(year)

Project : Integrated Waste Management Facilities, Phase 1 Contract No.: EP/SP/66/12 Actual Quantities of Inert C&D Materials Generated Monthly Actual Quantities of C&D Wastes Generated Monthly Imported Imported Imported Hard Rock Paper/ Fill Fill Fill and Large Reused in Disposed as Others, e.g. general Metals cardboard Total Reused in Plastics Month Broken Public Rock Sand Public Fill refuse packaging Chemical Waste the other (see Note (see Note 2, Quantity Concrete fill (see Note (see Note (see Note Generated Contract Projects 5) 5) (see Note 4) (see Note 3) (see Note 4) (see Note 4) 5) 1) 4)  $(in,000m^3)$   $(in,000m^3)$   $(in,000m^3)$   $(in,000m^3)$  $(in, 000m^3)$  $(in, 000m^3)$ (in ,000kg) (in ,000kg) (in ,000 kg) (in ,000kg) (in ,000L)  $(in, 000 \text{ m}^3)$ 0 0 0 0 0 37.1550 25.0812 0 0 0 0 0 0.0065 Jan 0 27.7910 Feb 0 0 0 0 0 0 18.8300 0 0 0 0 0 0.0065 0 0 0 0 0 22.5669 0 26.1586 0 0 0 0 7.2000 0.0065 Mar 0 0 0 0 0 0 0 0 0 12.7800 0 10.1825 0 0.0195 Apr 0 0 0 0 0 16.1138 0 24.3740 0 0.4220 0 0 0 0.0195 May 0 0 0 0 0 31.5177 0 28.3030 0 0 0 0 0 0.0065 Jun 0 0 Sub-total 0 0 0 0 0 147.9244 132.9293 0 0.4220 0 7.2000 0.0650 0 0 0 0 0 0 34.7856 17.0606 35.1800 0 0 0 0 0.0195 Jul 65.5667 0 0 0 0 0 27.1375 27.9335 0 0 0 0 0 0 Aug 110.1328 43.5435 Sep 0 0 0 0 0 11.9813 0 0 0 0 0 0.0195 0 0 0 0 0 2.8213 131.6600 22.5415 0 0 0 0 0 0.0130 Oct 0 0 0 0 0 Nov 0 0 162.1811 44.6475 0.4090 0 0 0.4000 0.0130 174.9800 57.8380 0 0 0 Dec 0 0 0 0 0 0 0 0 0.0130 0 0 224.6501 661.5812 364.6133 0 0 0 0 0.8310 0 0 7.6000 Total 0.1430

(1) Broken concrete for recycling into aggregates.

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

(3) Use the conversion factor : 1 full load of dumping truck being equivalent to  $6.5m^3$  by volume.

(4) Use the conversion factor: sand density =  $1.6T/m^3$ , public fill density =  $1.8T/m^3$  and rock density =  $2T/m^3$ 

(5) Materials recycled.

Notes:



Monthly Summary Waste Flow Table for _____

<u>2021 (year)</u>

Project : Integrated Waste Management Facilities, Phase 1 Contract No.: EP/SP/66/12 Actual Quantities of Inert C&D Materials Generated Monthly Actual Quantities of C&D Wastes Generated Monthly Hard Rock Imported Imported Imported Paper/ and Large Fill Fill Fill Reused in Disposed as Metals Others, e.g. general Total Reused in cardboard Plastics Month Broken Public fill Sand Rock refuse Public Fill packaging Chemical Waste Quantity the other (see Note (see Note 2. Concrete (see Note (see Note (see Note (see Note 5) 5) Generated Contract Projects (see Note 4) (see Note 3) (see Note 4) 4) 4) 5) 1)  $(in,000m^3)$   $(in,000m^3)$   $(in,000m^3)$   $(in,000m^3)$   $(in,000m^3)$   $(in,000m^3)$  $(in,000m^3)$ (in ,000 kg) (in ,000kg) (in ,000kg) (in ,000kg)  $(in,000 \text{ m}^3)$ (in .000L) 0 0 0 0 0 0 198.1311 0 0 0 0 0 36.4775 0.0065 Jan 0 0 0 0 0 0 0 0 0 0 0 Feb 143.9511 20.9960 0.6305 0 0 0 0 0 0 103.1833 23.4510 0 0 0 0 0 0.0130 Mar 0 0 0 0 0 0 161.2956 0 Apr 27.2810 0 0 0 0 0.0130 0 0 0 0 0 0 0 0 0 193.3300 0 0 0.0715 May 20.5265 0 0 0 0 0 23.7825 0 0 0 0 141.5728 0 0.2440 0.0455 Jun 0 0 0 0 0 0 941.4639 152.5145 0 0.2440 0 0 0 0.7800 Sub-total 0 0 0 0 0 0 105.1083 30.6065 0 0 0 0 0 0.0195 Jul 0 0 0 0 0 0 0 11.1822 7.5180 0 0 0 0 0.0130 Aug 0 0 0 Sep 0 0 0 0 5.7575 0 0 0 0 0.6000 0.0390 0 0 0 0 0 0 0 0 0 0 0 0 6.8885 0 Oct 0 0 0 0 0 0 0 0 6.2975 0 0.1610 0 0 0.0130 Nov Dec 0 0 0 0 0 0 0 5.9235 0 0 0 0 0 0 0 0 0 Total 0 0 0 1057.7544 215.5060 0 0.4050 0 0 0.6000 0.8645

(1) Broken concrete for recycling into aggregates.

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

(3) Use the conversion factor : 1 full load of dumping truck being equivalent to  $6.5m^3$  by volume.

(4) Use the conversion factor: sand density =  $1.6T/m^3$ , public fill density =  $1.8T/m^3$  and rock density =  $2T/m^3$ .

(5) Materials recycled.

Notes:



Monthly Summary Waste Flow Table for



2022

(year)

Project : In	ect : Integrated Waste Management Facilities, Phase 1								Contract No.: EP/SP/66/12					
	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly						
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete (see Note 1)	Reused in the Contract	Reused in other Projects (see Note 4)	Disposed as Public Fill (see Note 4)	Imported Fill Sand (see Note 4)	Imported Fill Public fill (see Note 4)	Imported Fill Rock (see Note 4)	Metals (see Note 5)	Paper/ cardboard packaging (see Note 5)	Plastics (see Note 2, 5)	Chemica	l Waste	Others, e.g. general refuse (see Note 3)
	(in ,000m ³ )	(in ,000m ³ )	(in ,000m ³ )	(in ,000m ³	$(in,000m^3)$		$(in,000m^3)$	T	(in ,000 kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	(in ,000 m ³ )
Jan	0	0	0	0	0	0	4.9389	2.7070	0	0.1550	0	0	0	0.0715
Feb	0	0	0	0	0	0	3.2478	4.0290	0	0	0	0.4000	0.2250	0
Mar	0	0	0	0	0	0	2.3422	2.7820	0	0	0	0	0	0.0780
Apr	0	0	0	0	0	0	18.2189	5.8100	0	0.3120	0	0	0	0.1495
May	0.0648	0	0	0	0.0648	0	16.7711	17.2320	0	0	0	0	0	0.0975
Jun	0.0037	0	0	0	0.0037	0.2115	1.1128	14.1470	36.3000	0.3890	0	0	1.7250	0.0975
Sub-total	0.0685	0	0	0	0.0685	0.2115	46.6317	46.7070	36.3000	0.8560	0	0.4000	1.9500	0.4940
Jul	25.7183	0	0	25.7183	0	0.1125	0.8333	17.5210	0	0.6400	0.0060	0	0	0.1235
Aug	13.2494	0	0	13.2494	0	0	0	24.5210	76.0300	1.8870	0	0	0	0.1170
Sep	24.9072	0	0	24.8494	0.0578	0	0	16.2815	72.0600	0.3060	0	0	0	0.1885
Oct	13.3139	0	0	13.3006	0.0133	0	0	11.8665	78.1000	0.5800	0	0	0	0.2405
Nov	26.5583	0	0	26.5583	0	0	0	7.2055	0	0	0	0	0	0.1105
Dec	29.1411	0	0	29.1411	0	0	0	3.5174	0	0	0	0	0	0.2535
Total	132.9567	0	0	132.8171	0.1396	0.3240	47.4650	127.6199	262.4900	4.2690	0.0060	0.4000	1.9500	1.5275

(1) Broken concrete for recycling into aggregates.

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

(3) Use the conversion factor : 1 full load of dumping truck being equivalent to  $6.5m^3$  by volume.

(4) Use the conversion factor: sand density =  $1.6T/m^3$ , public fill density =  $1.8T/m^3$  and rock density =  $2T/m^3$ .

(5) Materials recycled.

Notes:

# Appendix L Event / Action Plan for Coral Monitoring

Contract No. EP/SP/66/12 Integrated Waste Management Facilities, Phase 1

Keppel Seghers – Zhen Hua Joint Venture

Event	Action									
_	ET Leader II	EC S	o c	ontractor						
Exceedance	2. Inform the IEC, SO ,and	Discuss monitoring with the 1. ET and the Contractor; Review proposals for additional monitoring and any other measures submitted by the Contractor 2. and advise the SO accordingly.	Discuss with the IEC 1. additional monitoring requirements and any other measures proposed by the 2. ET; Make the agreement on the measures to be 3. implemented.	notification of the non-compliance in writing; Discuss with the ET and the IEC and propose measures to the IEC and the SO;						
Limit Level ¹ Exceedance	<ol> <li>Undertake Steps 1-4 as in 1. the Action Level Exceedance. If further 2. exceedance of Limit Level, propose enhancement measures for consideration.</li> </ol>	Discuss monitoring with the 1. ET and the Contractor; Review proposals for additional monitoring and any other measures submitted by the Contractor 2. and advise the SO accordingly.	Discuss with the IEC 1. additional monitoring requirements and any other measures proposed by the 2. ET; Make the agreement on the measures to be 3. implemented.	notification of the non-compliance in writing; Discuss with the ET and the IEC and propose measures to the IEC and the SO;						

Appendix M Event / Action Plan for White-Bellied Sea Eagle

Event		Action	
	Environmental	Audit Team	Contractor
	Team		
Absence of White-bellied Sea Eagle during a whole day of monitoring.	Inform audit team. Increase monitoring frequency to daily.	<ul> <li>Inform site engineer and contractor.</li> <li>If the absence remains: <ul> <li>Review construction activities and noise monitoring records of the associated period;</li> <li>Identify potential causes of the absence;</li> <li>Propose remedial measures, such as change of construction method and sequence;</li> <li>Confirm the feasibility of the proposed remedial measures with site engineer and contractor;</li> <li>Discuss with environmental team about the effectiveness of the proposed remedial measures.</li> </ul> </li> </ul>	Implement the agreed remedial measures.

Appendix N Exceedance Report

Integrated Waste Management Facilities, Phase 1

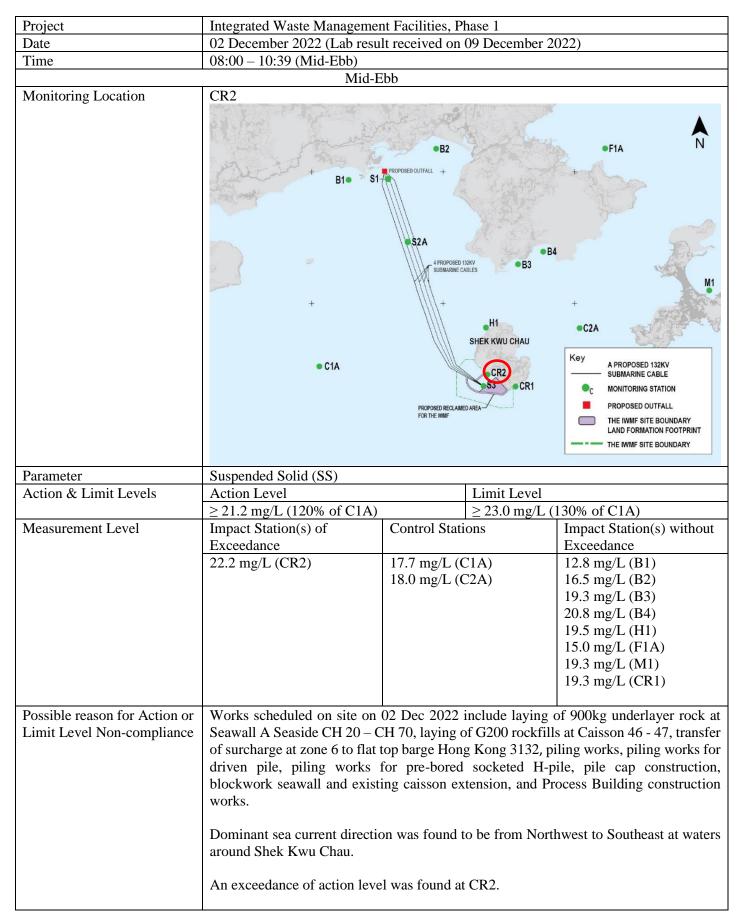
	Water Quality (Regular Monitoring)								
Location	Action Level	Limit Level	Total						
B1	2	1	3						
B2	2	1	3						
B3	3	2	5						
B4	1	2	3						
CR1	1	1	2						
CR2	2	2	4						
F1A	1	0	1						
H1	1	2	3						
<b>S</b> 1		Not applicable							
S2A		Not applicable							
S3	Not applicable								
M1	1	2	3						

## Statistical Summary of Exceedances in the Reporting Period

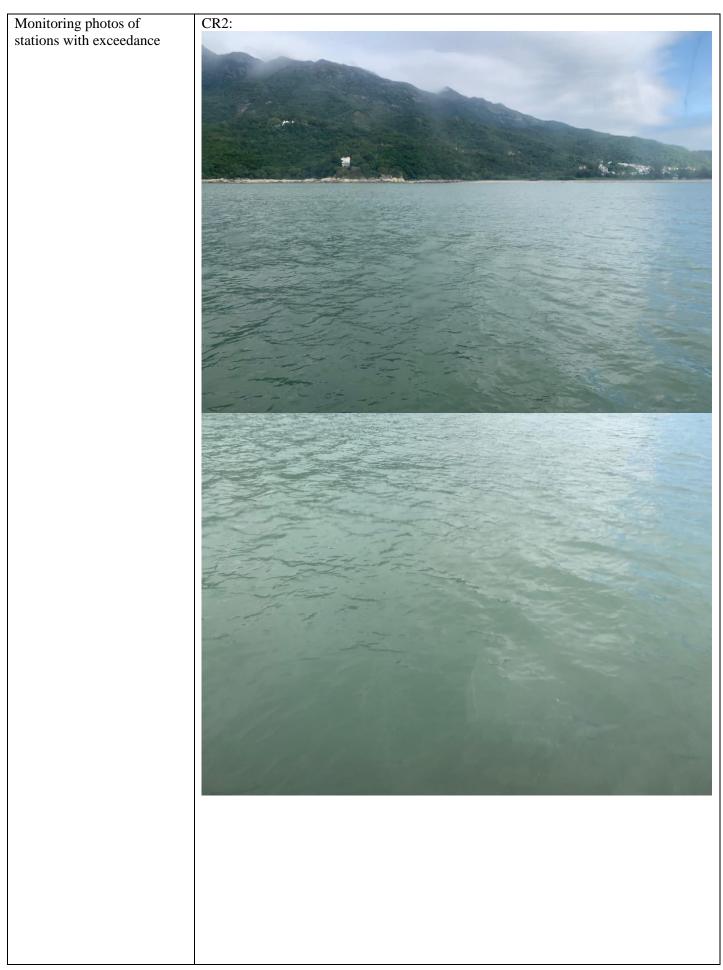
#### Integrated Waste Management Facilities, Phase 1

	Noise (Day Time)								
Location	Action Level	Limit Level	Total						
M1	0	0	0						
M2	0	0	0						
M3	0	0	0						
Noise (Evening Time)									
Location	Action Level	Limit Level	Total						
M1	0	0	0						
M2	0	0	0						
M3	0	0	0						
·	Noise (N	light Time)							
Location	Action Level	Limit Level	Total						
M1	0	0	0						
M2	0	0	0						
M3	0	0	0						

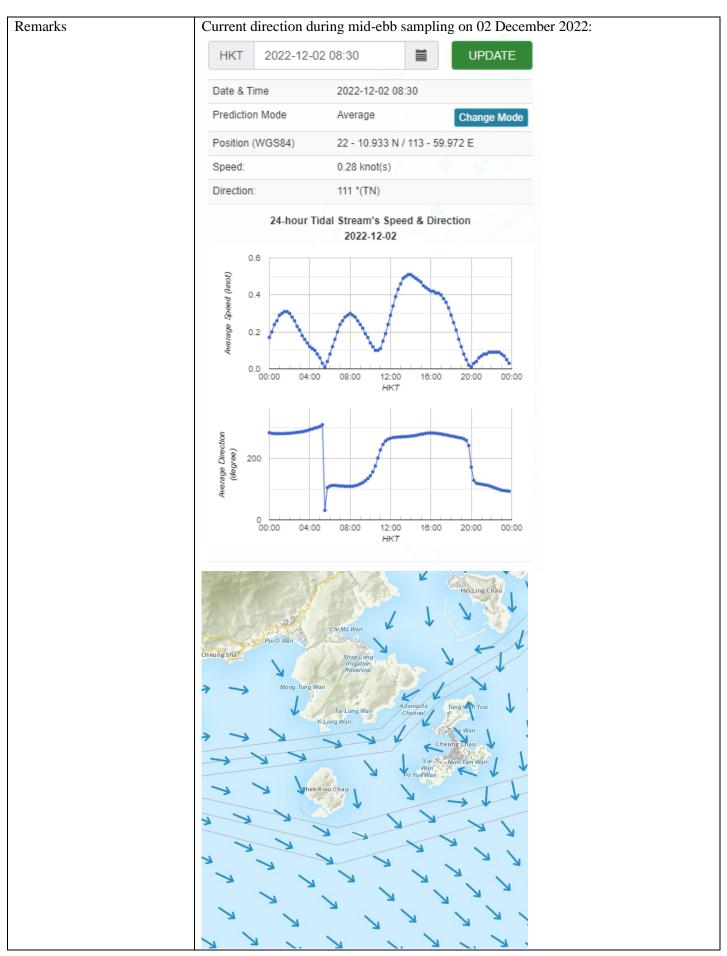
#### Incident Report on Action Level or Limit Level Non-compliance



The installation of caisson No.19 was completed on 18 Mar 2021, the reclamation area was enclosed.
According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was fine during the sampling event.
No major observation of improper site practices that contributed to the increase of the suspended solids was recorded during the weekly site inspection on 06 December 2022.
After the investigation, the exceedance on 02 December 2022 during ebb tide at CR2 is deemed to be unrelated to the Project.



#### Contract No. EP/SP/66/12 Integrated Waste Management Facilities, Phase 1

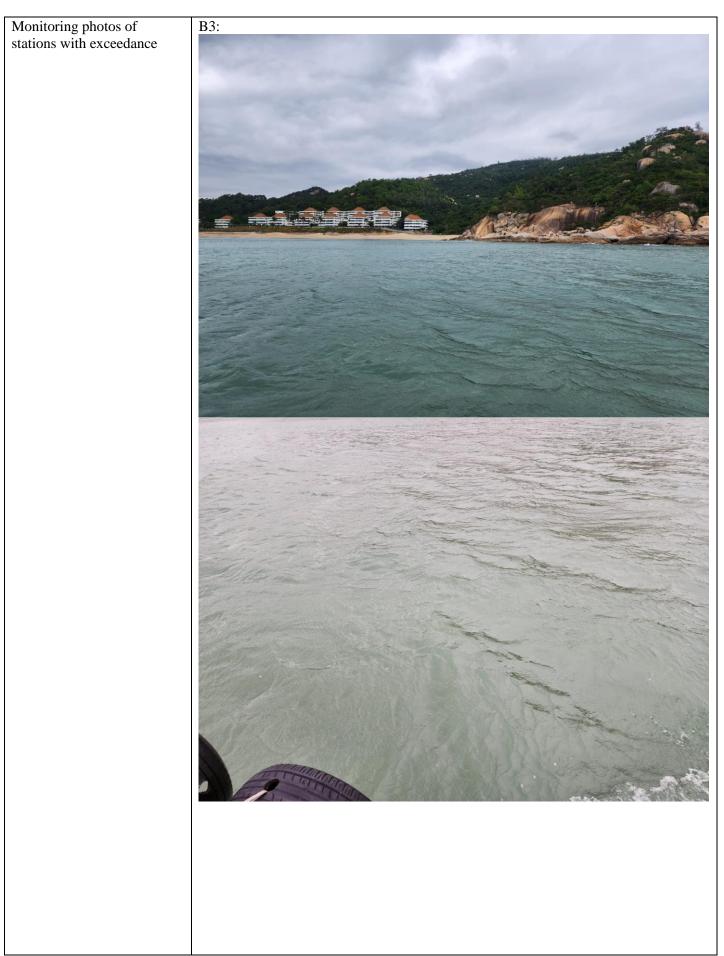


		Legend						
	Speed (knot)		Speed (knot)					
	0-0.5	$\rightarrow$	1.5-2.0	$\rightarrow$				
	0.5-1.0	$\rightarrow$	2.0-2.5	$\rightarrow$				
	1.0-1.5		2.5 and above	$\rightarrow$				
	(Sourced from http://d	current.hy	dro.gov.hk/en/map.ht	ml)				
Prepared by	Jack Chow							
Date	16 December 2022							

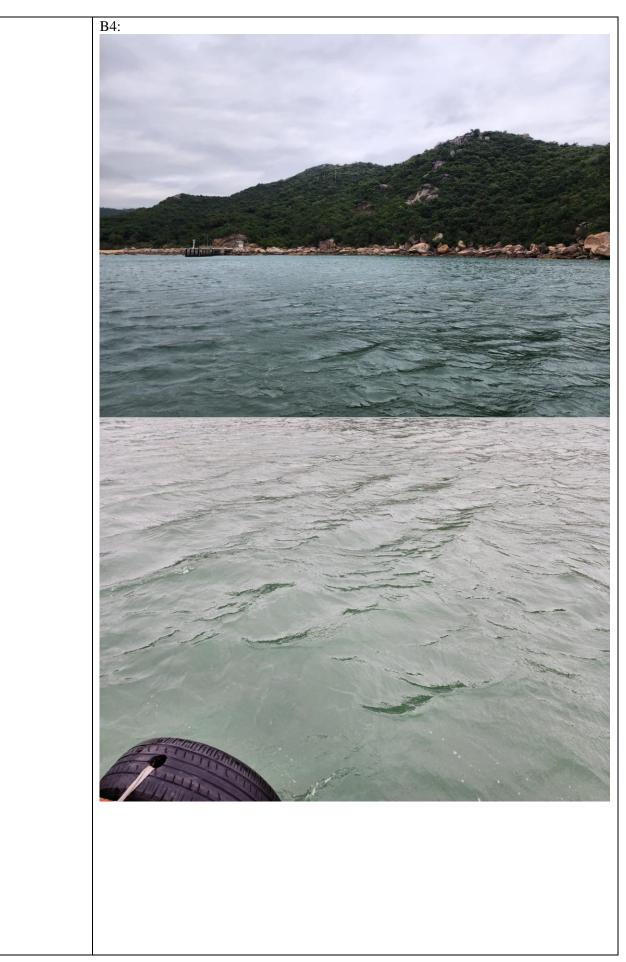
## Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Managemen	nt Facilities, Phase 1				
Date	05 December 2022 (Lab resu		2022)			
Time	08:45 – 12:15 (Mid-Ebb)		/			
	Mid-E	Ebb				
Monitoring Location	B3, B4, F1A, H1, M1, CR2	B2 PROPOSED OUTFAIL +	FIA + • • • • • • • • • • • • •			
Denometer	Suspended Solid (SS)					
Parameter	Suspended Solid (SS)	Time if Torong 1				
Action & Limit Levels	Action Level	Limit Level				
	$\geq 8.0 \text{ mg/L}$	$\geq 10.0 \text{ mg/L}$				
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance			
	12.4 mg/L (B3) 14.3 mg/L (B4) 9.5 mg/L (H1) 11.0 mg/L (M1) 9.5 mg/L (F1A) 12.5 mg/L (CR2)	5.8 mg/L (C1A) 11.7 mg/L (C2A)	7.8 mg/L (B1) 6.0 mg/L (B2) 5.5 mg/L (CR1)			
Possible reason for Action or Limit Level Non-compliance	<ul> <li>Works scheduled on site on 05 Dec 2022 include installation of stoppers at Breakwater A CH 1120 A - D, weighing test of 2.5T armour rock, piling works, piling works for driven pile, piling works for pre-bored socketed H-pile, pile cap construction, blockwork seawall and existing caisson extension, and Process Building construction works.</li> <li>Dominant sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.</li> <li>Exceedances of action level were found at H1 and F1A and exceedances of limit level were found at B3, B4, M1 and CR2.</li> <li>B3, B4, H1, M1 and F1A are located at unrelated stream direction (neither upstream nor downstream) to the works location. Exceedances at B3, B4, H1, M1 and F1A are deemed to be unrelated to the Project.</li> </ul>					

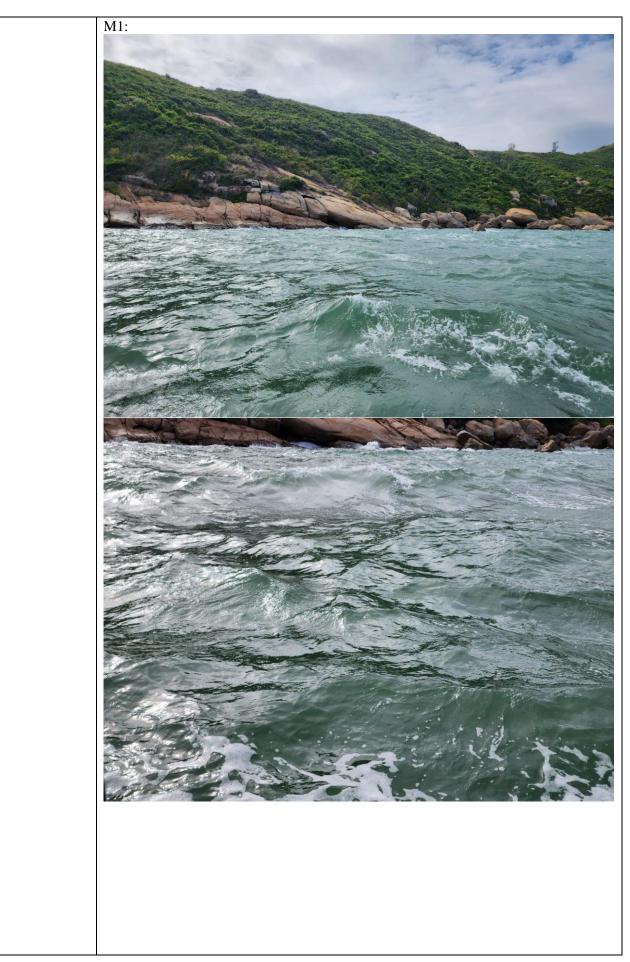
The installation of caisson No.19 was completed on 18 Mar 2021, the reclamation area was enclosed.
According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was rainy during the sampling event.
No major observation of improper site practices that contributed to the increase of the suspended solids was recorded during the weekly site inspection on 06 December 2022.
After the investigation, the exceedances on 05 December 2022 during ebb tide at B3, B4, F1A, H1, M1 and CR2 are deemed to be unrelated to the Project.

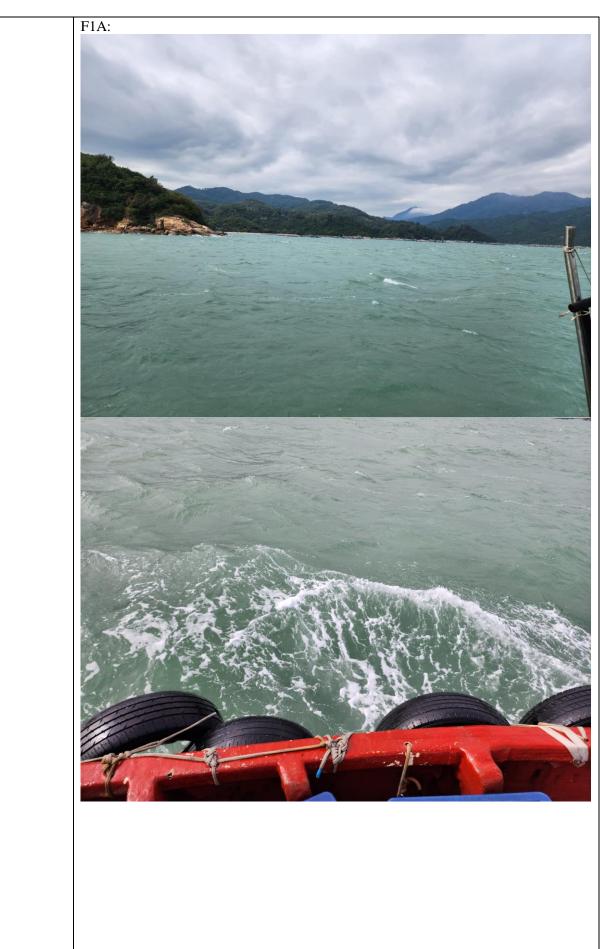


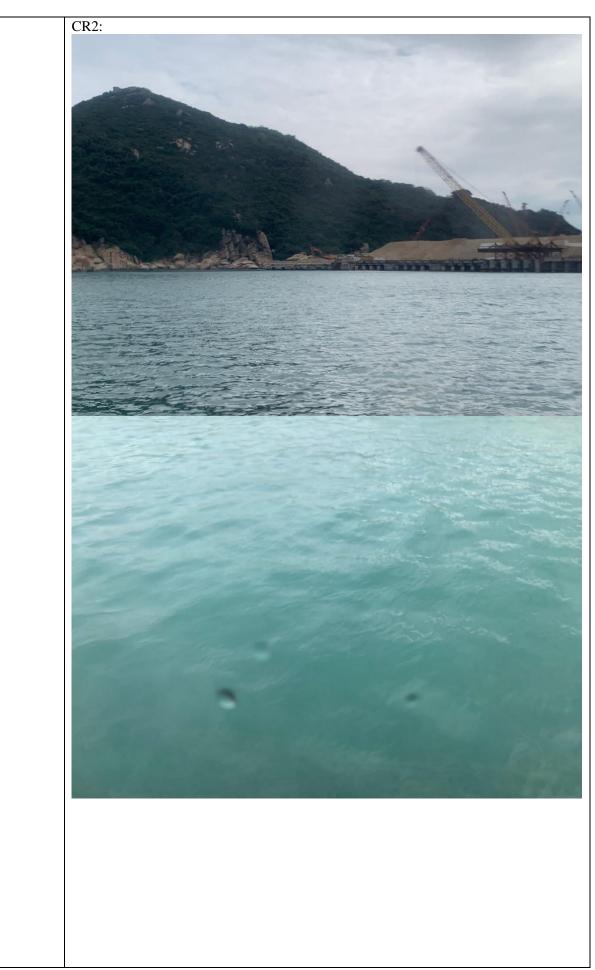
## Contract No. EP/SP/66/12 Integrated Waste Management Facilities, Phase 1

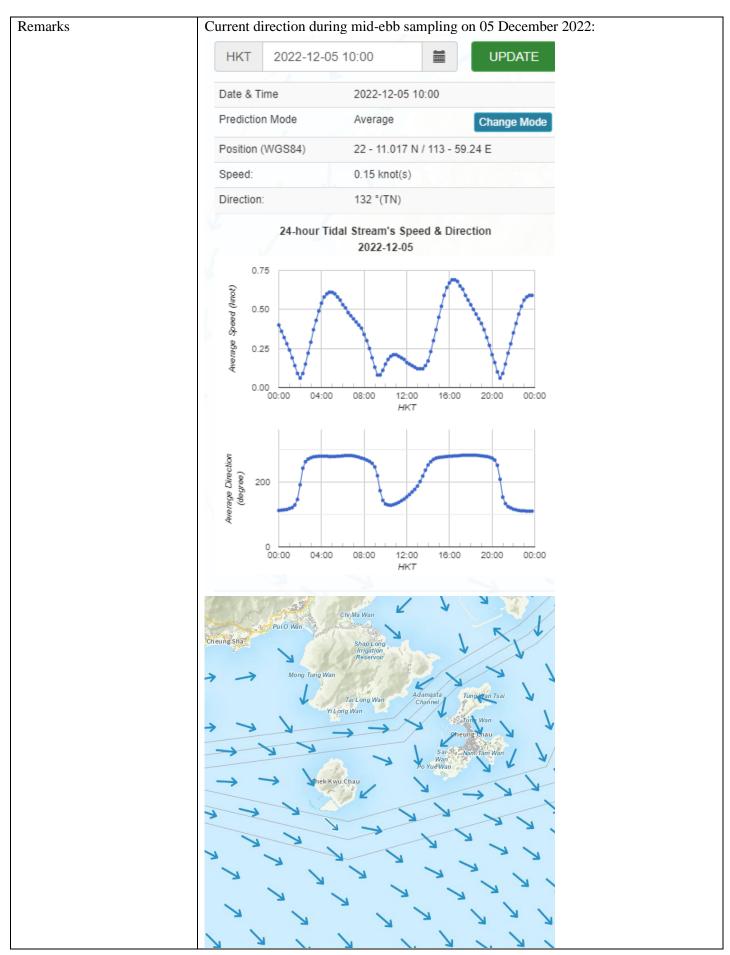










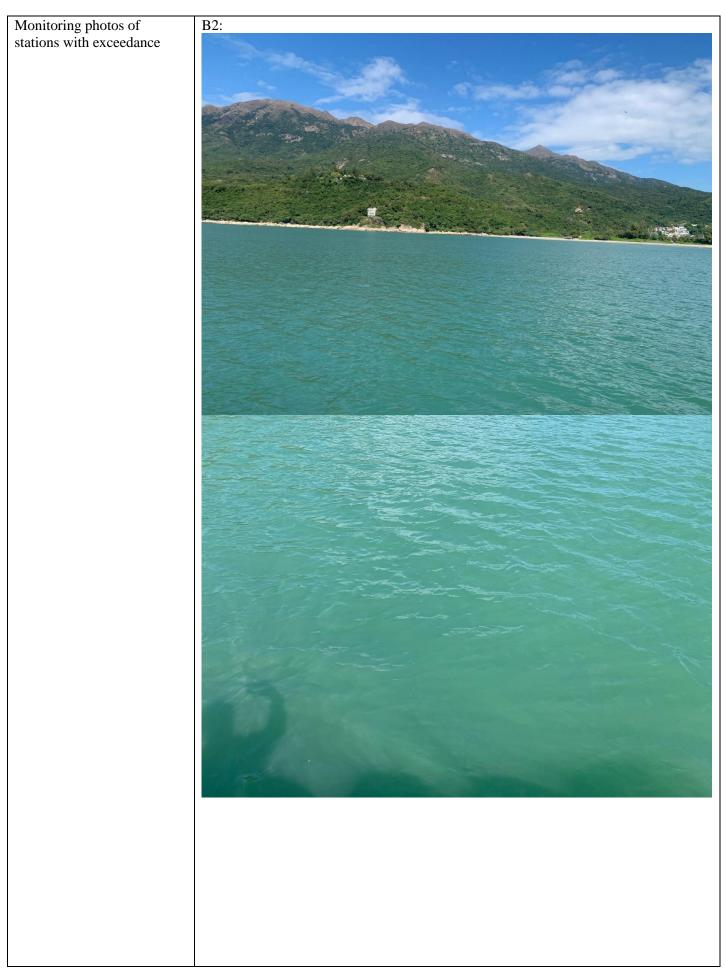


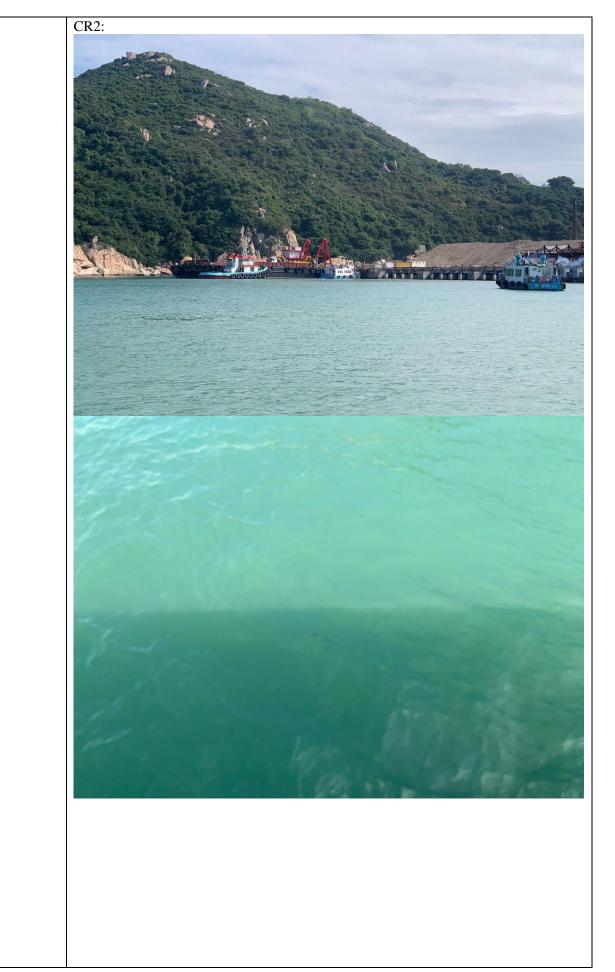
	Legend			
	Speed (knot)		Speed (knot)	
	0-0.5	$\rightarrow$	1.5-2.0	$\rightarrow$
	0.5-1.0	$\rightarrow$	2.0-2.5	$\rightarrow$
	1.0-1.5		2.5 and above	$\rightarrow$
	(Sourced from http://current.hydro.gov.hk/en/map.html)			
Prepared by	Jack Chow			
Date	19 December 2022			

## Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Management Facilities, Phase 1				
Date	07 Dec 2022 (Lab result received on 14 December 2022)				
Time	10:11 – 13:41 (Mid-Ebb)				
	15:28 – 18:58 (Mid-Flood)				
	Mid-H	Ebb			
Monitoring Location	B2, CR2				
	+ • C1A	B2 ROPOSED OUTFALL 4 PROPOSED 132/V SUBMARINE CABLES 4 PROPOSED 132/V BIBMARINE CABLES 4 PROPOSED 132/V CR1 CR1 CR1 CR1 CR1 CR1 CR1 CR1	+ • C2A Key A PROPOSED 132KV SUBMARINE CABLE • C MONITORING STATION • PROPOSED OUTFALL • PROPOSED OUTFALL • THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT		
			THE IWMF SITE BOUNDARY		
Parameter	Suspended Solid (SS)				
Action & Limit Levels					
ACTION & LIMIT LEVELS	Action Level	Limit Level			
	Action Level $\geq 16.8 \text{ mg/L} (120\% \text{ of C1A})$		130% of C1A)		
Measurement Level			130% of C1A) Impact Station(s) without		
	$\geq$ 16.8 mg/L (120% of C1A)	$\geq$ 18.2 mg/L (			
	$\geq$ 16.8 mg/L (120% of C1A) Impact Station(s) of Exceedance	$\geq$ 18.2 mg/L ( Control Stations	Impact Station(s) without Exceedance		
	≥ 16.8 mg/L (120% of C1A) Impact Station(s) of Exceedance 18.8 mg/L (B2)	$\geq 18.2 \text{ mg/L} ($ Control Stations $14.0 \text{ mg/L} (C1A)$	Impact Station(s) without Exceedance 7.8 mg/L (B1)		
	$\geq$ 16.8 mg/L (120% of C1A) Impact Station(s) of Exceedance	$\geq$ 18.2 mg/L ( Control Stations	Impact Station(s) without Exceedance 7.8 mg/L (B1) 7.8 mg/L (B3)		
	≥ 16.8 mg/L (120% of C1A) Impact Station(s) of Exceedance 18.8 mg/L (B2)	$\geq 18.2 \text{ mg/L} ($ Control Stations $14.0 \text{ mg/L} (C1A)$	Impact Station(s) without Exceedance 7.8 mg/L (B1) 7.8 mg/L (B3) 15.5 mg/L (B4)		
	≥ 16.8 mg/L (120% of C1A) Impact Station(s) of Exceedance 18.8 mg/L (B2)	$\geq 18.2 \text{ mg/L} ($ Control Stations $14.0 \text{ mg/L} (C1A)$	Impact Station(s) without Exceedance 7.8 mg/L (B1) 7.8 mg/L (B3) 15.5 mg/L (B4) 13.5 mg/L (H1)		
	≥ 16.8 mg/L (120% of C1A) Impact Station(s) of Exceedance 18.8 mg/L (B2)	$\geq 18.2 \text{ mg/L} ($ Control Stations $14.0 \text{ mg/L} (C1A)$	Impact Station(s) without Exceedance 7.8 mg/L (B1) 7.8 mg/L (B3) 15.5 mg/L (B4) 13.5 mg/L (H1) 16.0 mg/L (F1A)		
	≥ 16.8 mg/L (120% of C1A) Impact Station(s) of Exceedance 18.8 mg/L (B2)	$\geq 18.2 \text{ mg/L} ($ Control Stations $14.0 \text{ mg/L} (C1A)$	Impact Station(s) without Exceedance 7.8 mg/L (B1) 7.8 mg/L (B3) 15.5 mg/L (B4) 13.5 mg/L (H1) 16.0 mg/L (F1A) 15.5 mg/L (M1)		
	≥ 16.8 mg/L (120% of C1A) Impact Station(s) of Exceedance 18.8 mg/L (B2)	$\geq 18.2 \text{ mg/L} ($ Control Stations $14.0 \text{ mg/L} (C1A)$	Impact Station(s) without Exceedance 7.8 mg/L (B1) 7.8 mg/L (B3) 15.5 mg/L (B4) 13.5 mg/L (H1) 16.0 mg/L (F1A)		
	<ul> <li>≥ 16.8 mg/L (120% of C1A)</li> <li>Impact Station(s) of</li> <li>Exceedance</li> <li>18.8 mg/L (B2)</li> <li>17.8 mg/L (CR2)</li> <li>Works scheduled on site on</li> <li>Seawall A seaside CH600 - C</li> <li>A - D, piling works, piling w</li> <li>H-pile, pile cap construction</li> <li>Process Building construction</li> <li>Dominant sea current directiaround Shek Kwu Chau.</li> </ul>	≥ 18.2 mg/L ( Control Stations          14.0 mg/L (C1A)         16.7 mg/L (C2A)         07 Dec 2022 include inspection         CH720, laying of 4T armour row         vorks for driven pile, piling w         n, blockwork seawall and exist	Impact Station(s) without Exceedance 7.8 mg/L (B1) 7.8 mg/L (B3) 15.5 mg/L (B4) 13.5 mg/L (H1) 16.0 mg/L (F1A) 15.5 mg/L (M1) 16.2 mg/L (CR1) on works of Chinese pods at ck at Breakwater A CH1120 yorks for pre-bored socketed sting caisson extension, and hwest to Southeast at waters		

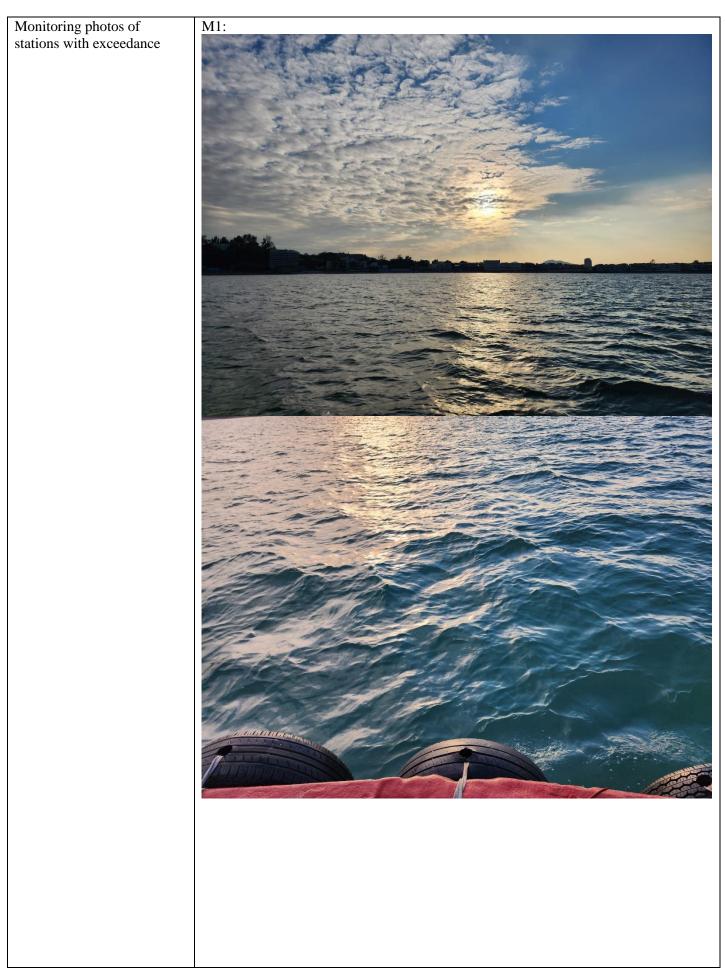
B2 is located at unrelated stream direction (neither upstream nor downstream, far away) to the works location. The exceedance at B2 is deemed to be unrelated to the Project.
The installation of caisson No.19 was completed on 18 Mar 2021, the reclamation area was enclosed.
According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was fine during the sampling event.
No major observation of improper site practices that contributed to the increase of the suspended solids was recorded during the weekly site inspection on 13 December 2022.
After the investigation, the exceedances on 07 December 2022 during ebb tide at B2 and CR2 are deemed to be unrelated to the Project.

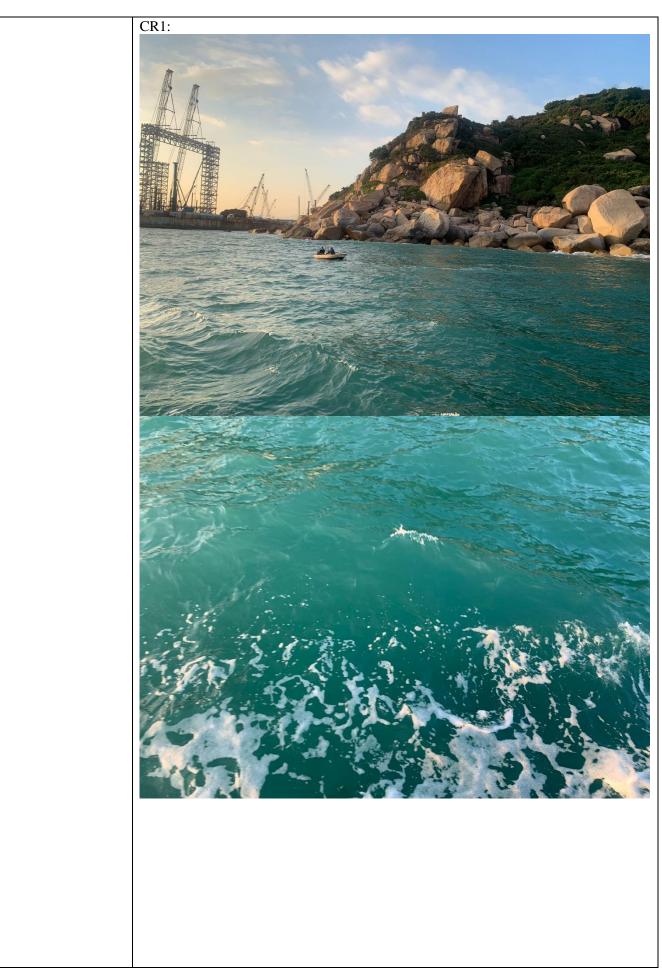


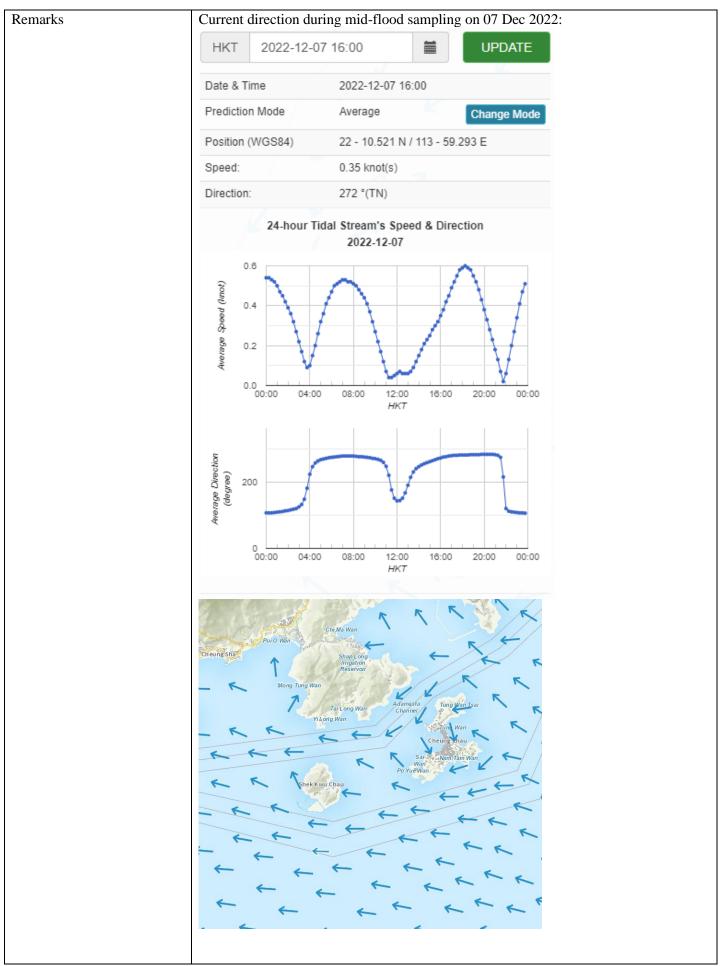


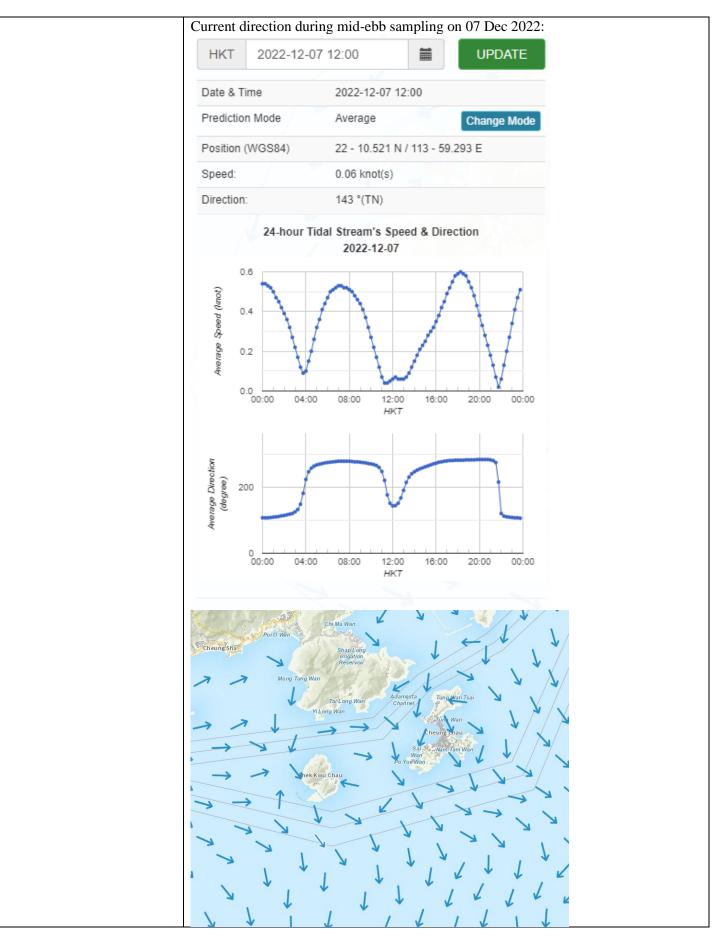
	Mid-F	Flood	
Monitoring Location	M1, CR1	B2 PROPOSED OUTFALL + \$2A	FIA FIA PEIA N N N N N N N N N N N N N
Parameter	Suspended Solid (SS)	fur ing inner	THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWMF SITE BOUNDARY
Action & Limit Levels	Action Level	Limit Level	
	$\geq$ 14.2 mg/L (120% of C2A)		(130% of C2A)
Measurement Level	Impact Station(s) of Exceedance 15.3 mg/L (M1)	Control Stations 10.7  mg/L (C1A)	Impact Station(s) without Exceedance 8.0 mg/L (B1)
	15.8 mg/L (CR1)	11.8 mg/L (C2A)	10.3 mg/L (B2) 7.0 mg/L (B3) 12.5 mg/L (B4) 12.2 mg/L (F1A) 13.3 mg/L (H1) 12.5 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	Seawall A seaside CH600 - C A - D, piling works, piling v	07 Dec 2022 include inspecti CH720, laying of 4T armour re works for driven pile, piling v n, blockwork seawall and exi on works.	ock at Breakwater A CH1120 works for pre-bored socketed
	around Shek Kwu Chau.	ion was found to be from Sou yel was found at M1, and an e	
	found at CR1. M1 is located at unrelated s	stream direction (neither upstr ance at M1 is deemed to be un	ream nor downstream) to the
	The installation of caisson N was enclosed.	Io.19 was completed on 18 Ma	ar 2021, the reclamation area

According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was fine during the sampling event.
No major observation of improper site practices that contributed to the increase of the suspended solids was recorded during the weekly site inspection on 13 December 2022.
After the investigation, the exceedances on 07 December 2022 during flood tide at M1 and CR1 are deemed to be unrelated to the Project.





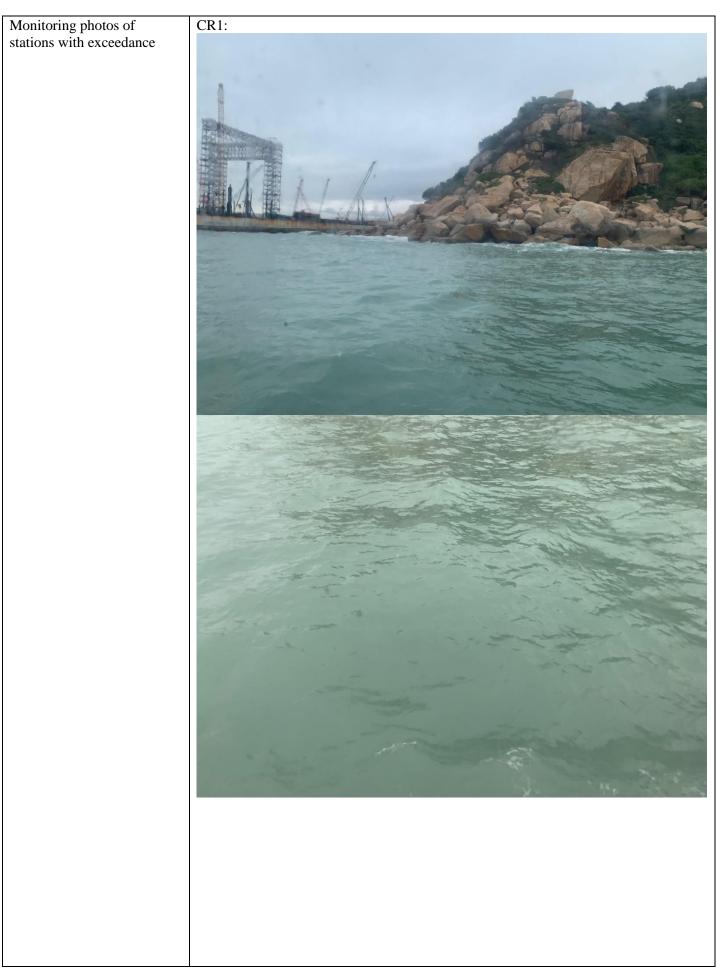


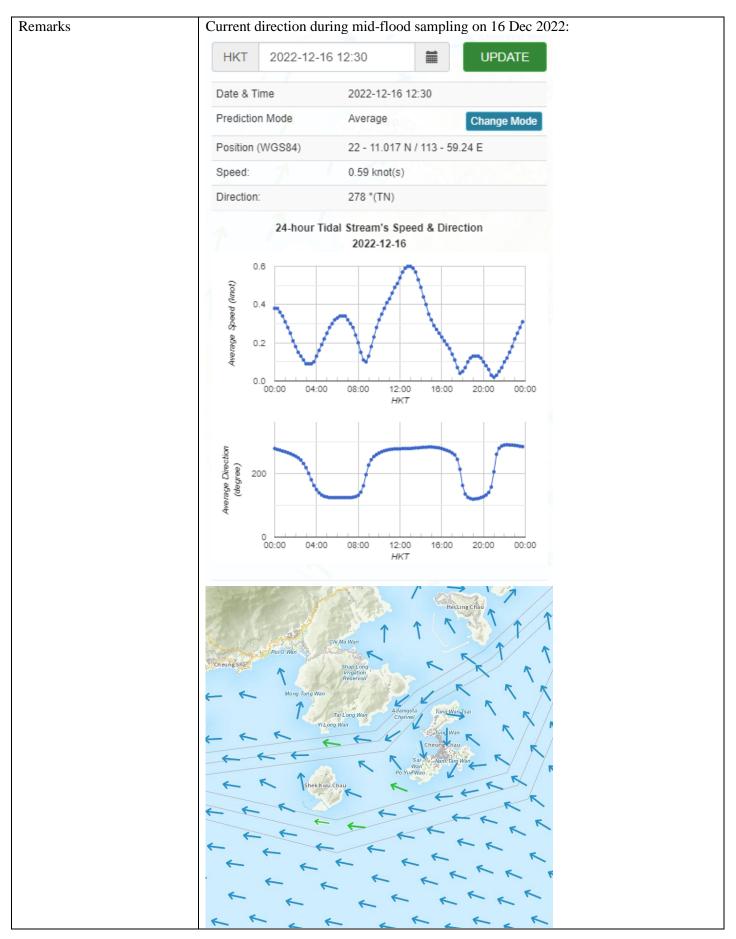


		Legend			
	Speed (knot)		Speed (knot)		
	0-0.5	$\rightarrow$	1.5-2.0	$\rightarrow$	
	0.5-1.0	$\rightarrow$	2.0-2.5	$\rightarrow$	
	1.0-1.5		2.5 and above	$\rightarrow$	
	(Sourced from http://c	current.hy	dro.gov.hk/en/map.ht	ml)	
Prepared by	Jack Chow				
Date	19 Dec 2022				

Project	Integrated Waste Manageme	nt Facilities, Phase 1			
Date	16 Dec 2022 (Lab result received on 23 December 2022)				
Time	11:56 – 15:26 (Mid-Flood)				
	Mid-F	lood			
Monitoring Location	CR1 B10 S1	B2 PROPOSED OUTFAIL SZA + SUBMARINE CABLES + H SHEK KWU CHAU CR2 33 CR2 CR2 CR2 CR2 CR2 CR2 CR2 CR2	FIA FIA PIA PIA PIA PIA PIA PIA PIA P		
Parameter	Suspended Solid (SS)				
Action & Limit Levels	Action Level	Limit Leve	21		
Action & Linit Levels	$\geq 8.0 \text{ mg/L}$	$\geq 10.0 \text{ mg}$			
Measurement Level	Impact Station(s) of	Control Stations	Impact Station(s) without		
incusurement Dever	Exceedance	Control Stations	Exceedance		
	8.7 mg/L (CR1)	7.2 mg/L (C1A)	4.5 mg/L (B1)		
		5.1  mg/L (C2A)	4.8  mg/L (B2)		
		011 mg 2 (0211)	5.0 mg/L (B3)		
			5.0  mg/L (B4)		
			4.1 mg/L (H1)		
			6.0  mg/L (F1A)		
			6.2 mg/L (M1)		
			6.8 mg/L (CR2)		
			0.0 mg/L (CR2)		
Possible reason for Action or Limit Level Non-compliance	Seawall A seaside CH300 - seaside CH480 - CH570, lay - CH1100, piling works, pr socketed H-pile, pile cap extension, and Process Build Dominant sea current directi around Shek Kwu Chau.	CH400, inspection works ing of 2.5T armour rock at iling works for driven pi construction, blockwork ling construction works. on was found to be from S	ng of 900kg underlayer rock at of Chinese pods at Seawall A Breakwater A seaside CH1000 le, piling works for pre-bored seawall and existing caisson outheast to Northwest at waters		
	An exceedance of action level was found at CR1.				

According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site.
The installation of caisson No.19 was completed on 18 Mar 2021, the reclamation area was enclosed.
According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was fine during the sampling event.
No major observation of improper site practices that contributed to the increase of the suspended solids was recorded during the weekly site inspection on 20 December 2022.
After the investigation, the exceedance on 16 December 2022 during flood tide at CR1 is deemed to be unrelated to the Project.

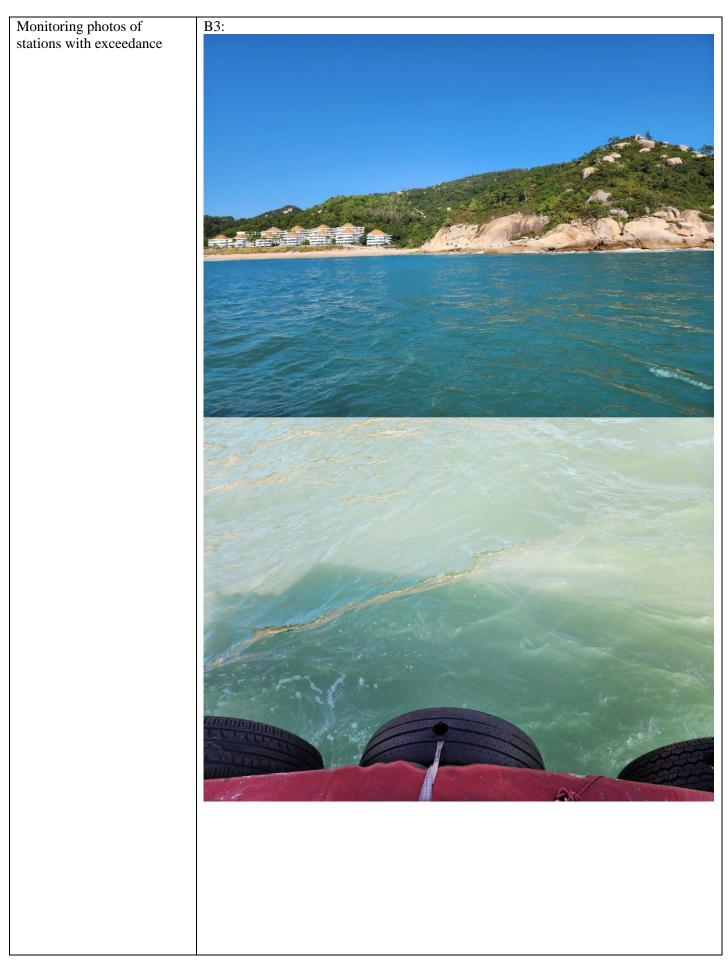


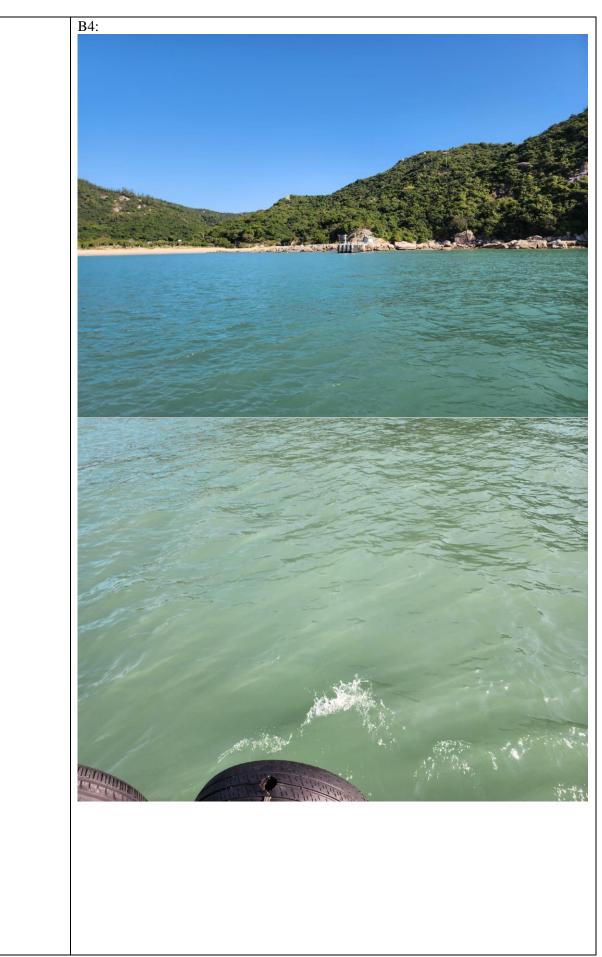


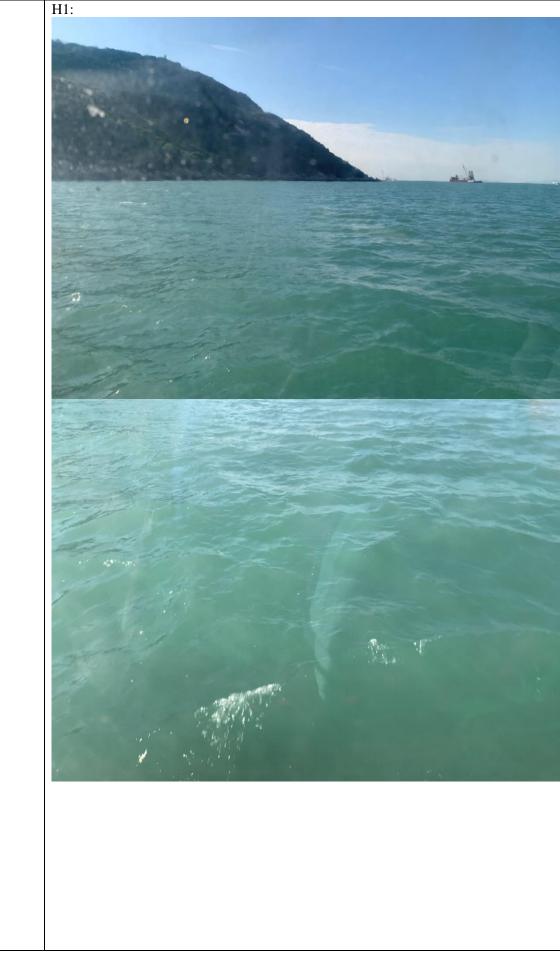
		Legend			
	Speed (knot)		Speed (knot)		
	0-0.5	$\rightarrow$	1.5-2.0	$\rightarrow$	
	0.5-1.0	$\rightarrow$	2.0-2.5	$\rightarrow$	
	1.0-1.5		2.5 and above	$\rightarrow$	
	(Sourced from http://d	current.hy	dro.gov.hk/en/map.ht	ml)	
Prepared by	Jack Chow				
Date	3 Jan 2023				

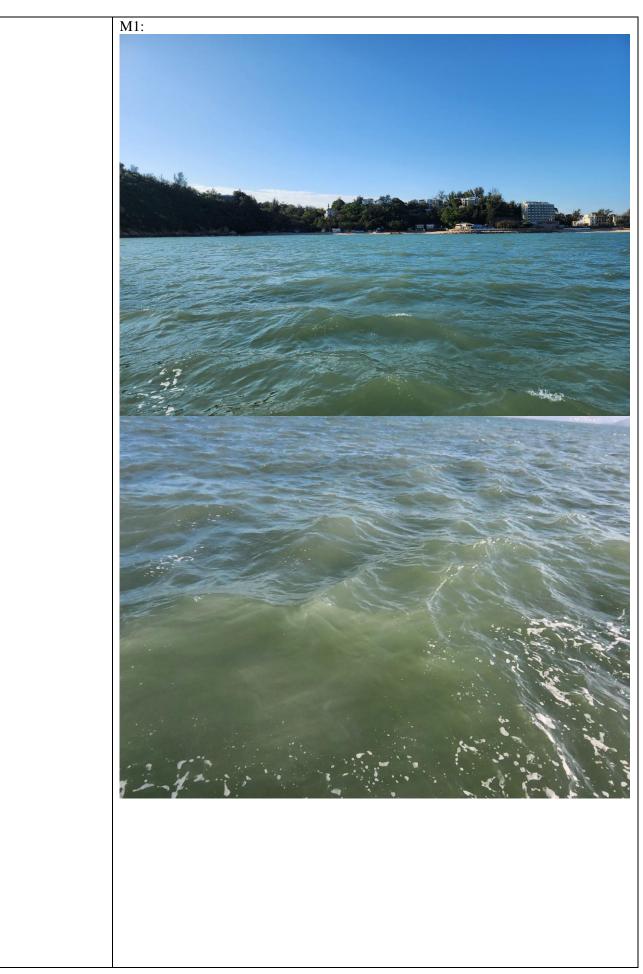
Project	Integrated Waste Management Facilities, Phase 1				
Date	19 Dec 2022 (Lab result received on 30 December 2022)				
Time	19  Dec  2022  (Lab result received on 50 December 2022) 08:00 - 11:12  (Mid-Ebb)				
Time	Mid-Ebb				
Monitoring Location	B3, B4, H1, M1	200			
	+ B1 • S1	B2 PROPOSED OUTFAIL + SZA + PROPOSED 13AV + + B3 B3 B3 B3 B3 B3 B3 B3 B3 B3	FIA FIA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PERA PE		
Parameter	Suspended Solid (SS)				
Action & Limit Levels	Action Level	Limit Level			
Action & Limit Levels		$\geq 10.0 \text{ mg/L}$			
Measurement Level	$\geq$ 8.2 mg/L (120% of C1A)	Control Stations $\geq 10.0 \text{ mg/L}$	Impact Station(s) without		
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Exceedance		
		$(2 m_{\alpha}/L)$			
	11.0  mg/L (B3)	6.8  mg/L (C1A)	8.0 mg/L (B1) 6.3 mg/L (B2)		
	20.8  mg/L (B4)	8.2 mg/L (C2A)			
	16.7  mg/L (H1)		7.5  mg/L (F1A)		
	10.3 mg/L (M1)		6.8  mg/L (CR1)		
			5.7 mg/L (CR2)		
Possible reason for Action or Limit Level Non-compliance	Breakwater B landside CH2 CH1000 - CH1050, laying c	00, laying of 2.5T armour roof 900kg underlayer rock at works for driven pile, piling b, blockwork seawall and ex n works. on was found to be from Nor	Seawall A seaside CH330 - works for pre-bored socketed isting caisson extension, and thwest to Southeast at waters M1. B3, B4, H1 and M1 are		

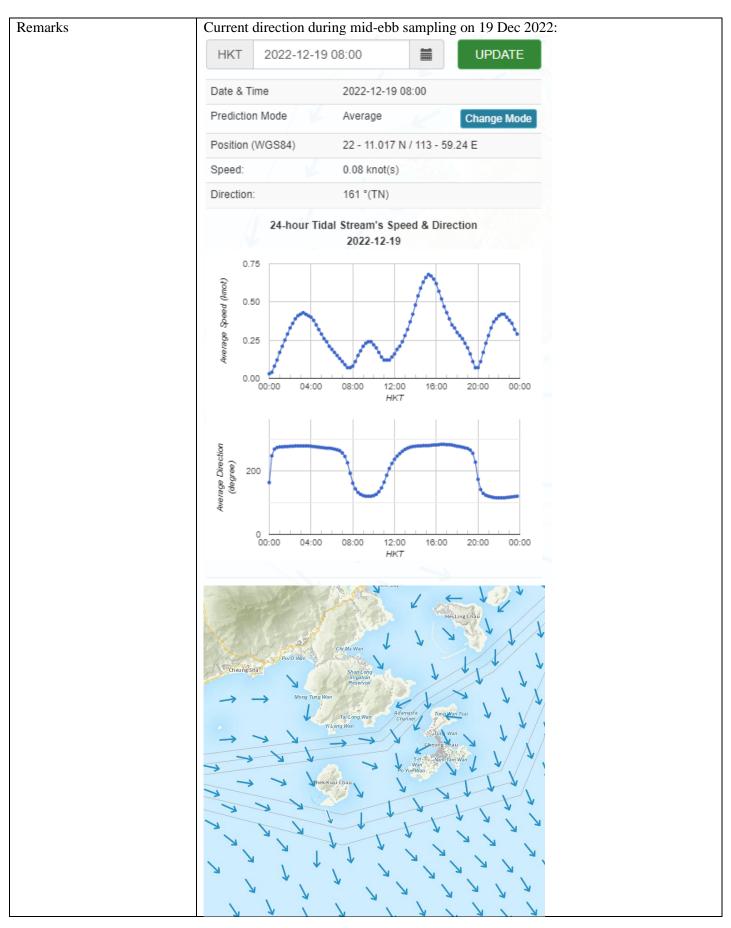
 According to the field observation by sampling team during sampling event, no silt
plume was observed in the Project site.
The installation of caisson No.19 was completed on 18 Mar 2021, the reclamation area was enclosed.
According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was fine during the sampling event.
No major observation of improper site practices that contributed to the increase of the suspended solids was recorded during the weekly site inspection on 20 December 2022.
After the investigation, the exceedances on 19 December 2022 during ebb tide at B3, B4, H1 and M1 are deemed to be unrelated to the Project.
After the investigation, the exceedances on 19 December 2022 during ebb tide at B3



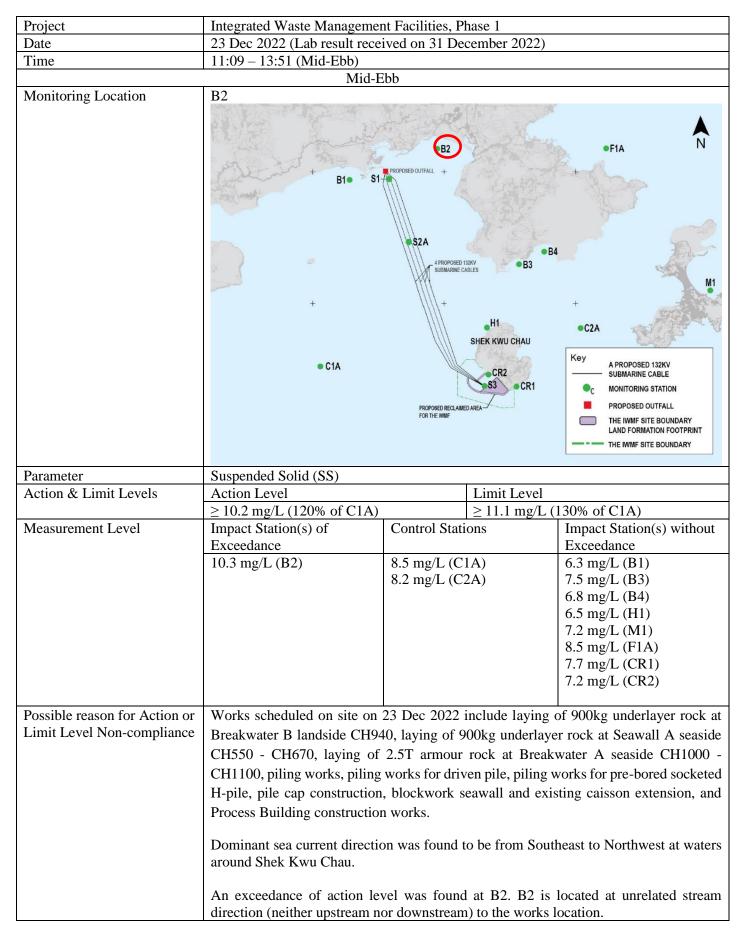




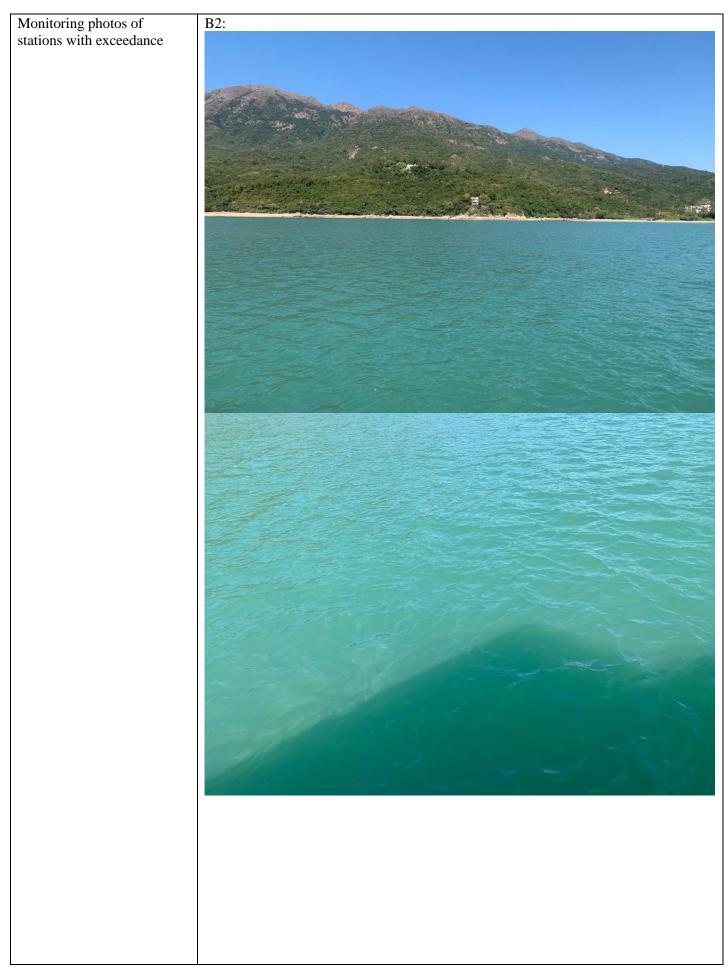


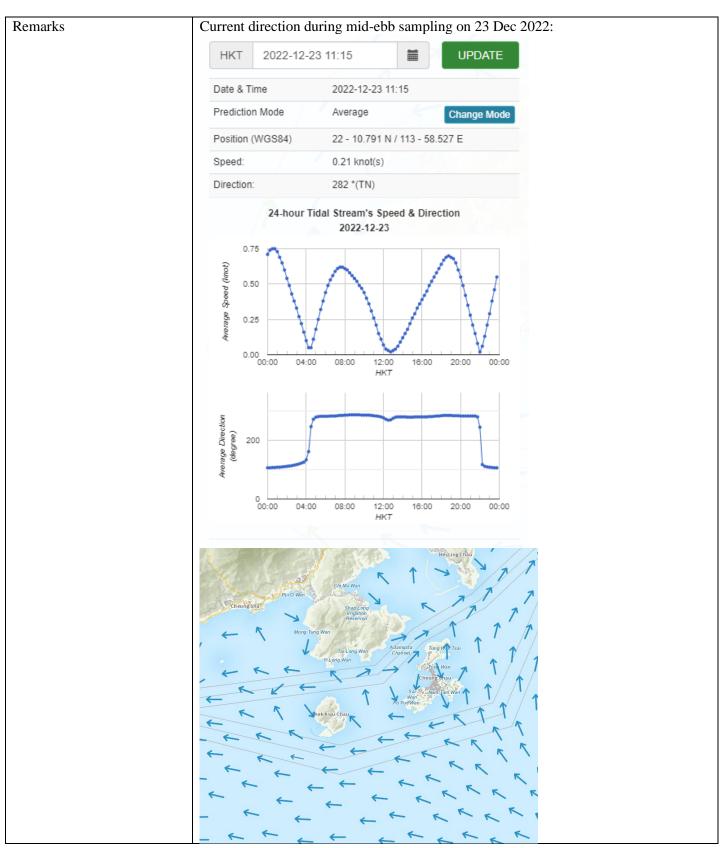


	Legend			
	Speed (knot)		Speed (knot)	
	0-0.5	$\rightarrow$	1.5-2.0	$\rightarrow$
	0.5-1.0	$\rightarrow$	2.0-2.5	$\rightarrow$
	1.0-1.5		2.5 and above	$\rightarrow$
	(Sourced from http://d	current.hy	dro.gov.hk/en/map.ht	ml)
Prepared by	Jack Chow			
Date	5 Jan 2023			



According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site.
The installation of caisson No.19 was completed on 18 Mar 2021, the reclamation area
was enclosed. According to the field observation by sampling team during sampling event, no silt
plume was observed in the Project site and the weather was fine during the sampling
event. No major observation of improper site practices that contributed to the increase of the
suspended solids was recorded during the weekly site inspection on 28 December 2022.
After the investigation, the exceedance on 23 December 2022 during ebb tide at B2 is
deemed to be unrelated to the Project.

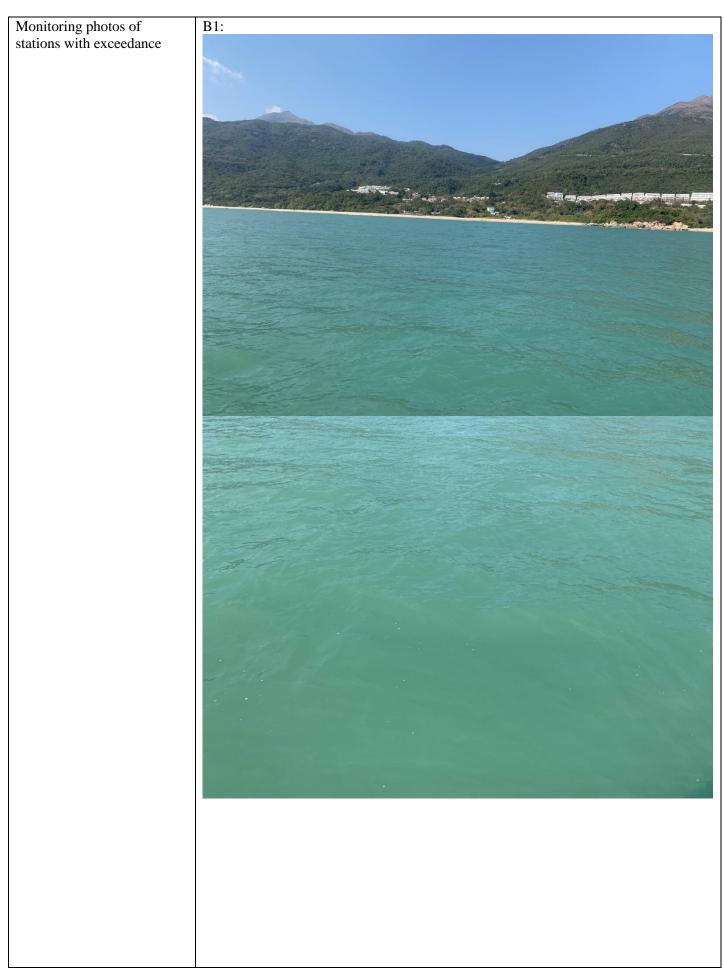


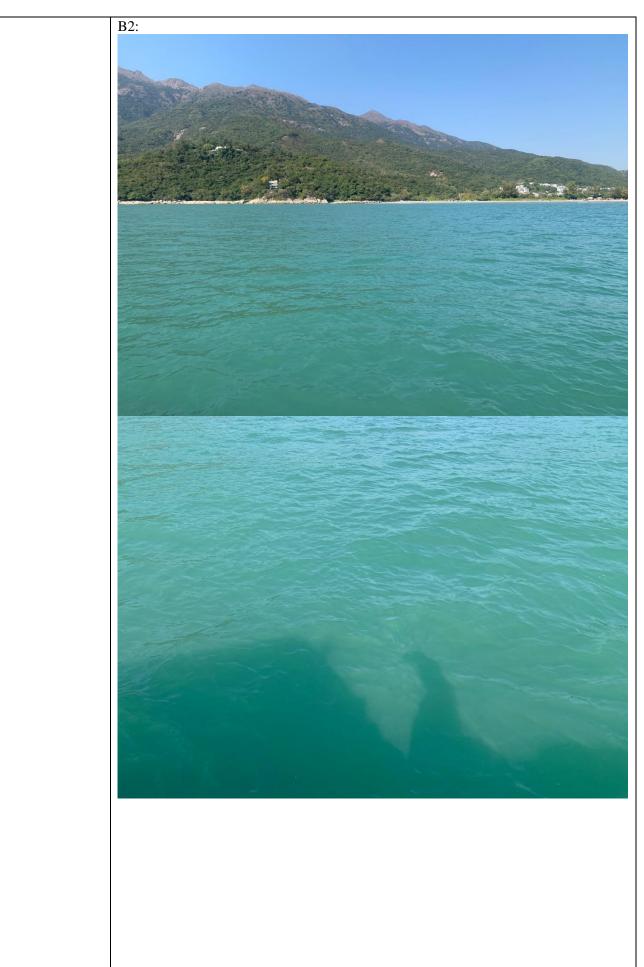


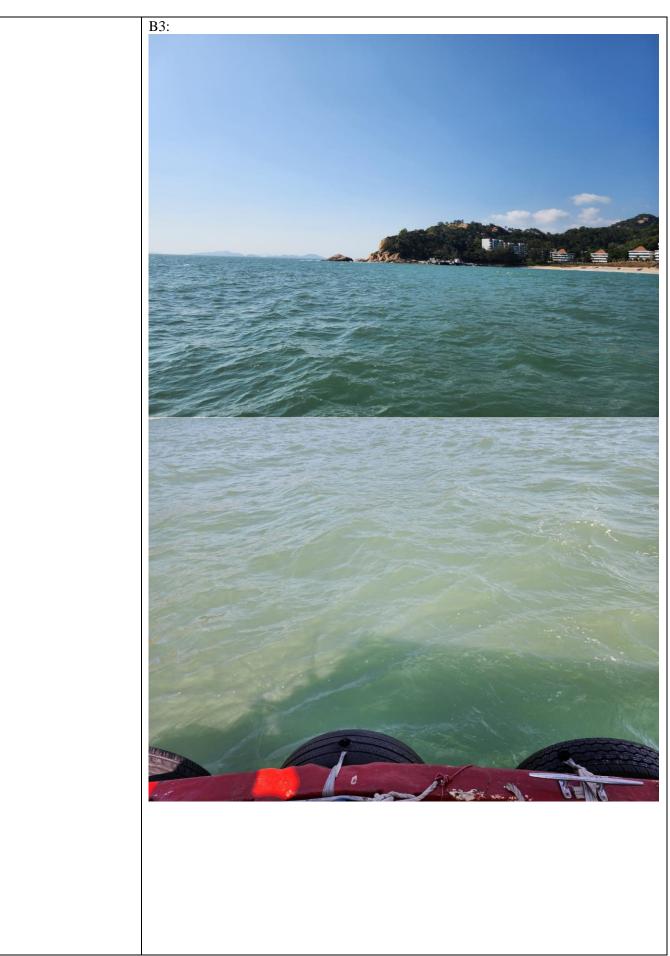
		Legend			
	Speed (knot)		Speed (knot)		
	0-0.5	$\rightarrow$	1.5-2.0	$\rightarrow$	
	0.5-1.0	$\rightarrow$	2.0-2.5	$\rightarrow$	
	1.0-1.5		2.5 and above	$\rightarrow$	
	(Sourced from http://d	current.hy	dro.gov.hk/en/map.ht	ml)	
Prepared by	Jack Chow				
Date	6 Jan 2023				

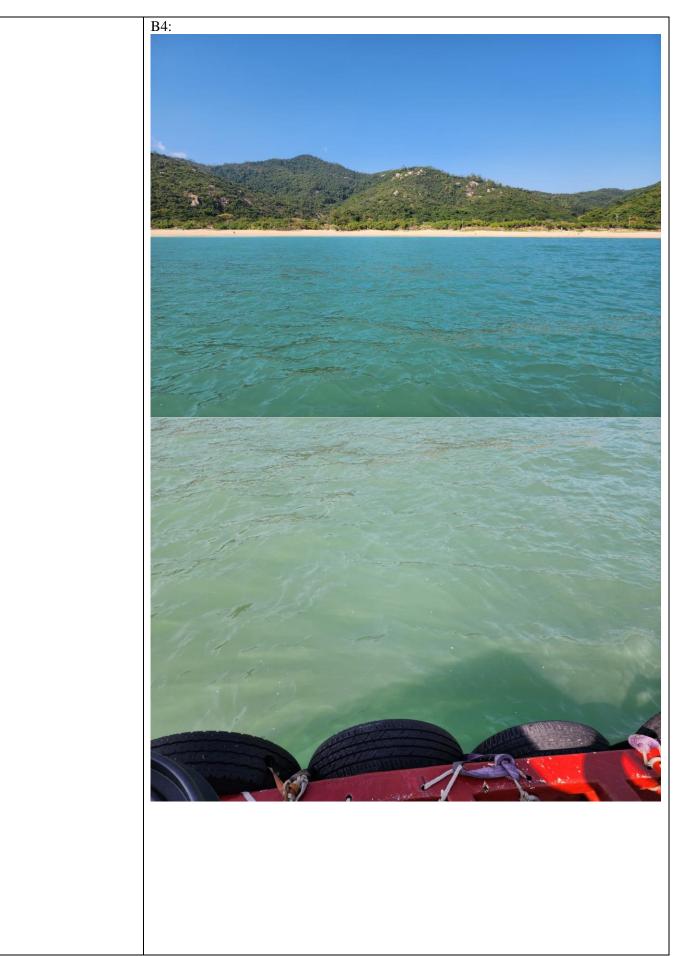
Project	Integrated Waste Managemen	nt Facilities Phase 1			
Date	26 Dec 2022 (Lab result received on 31 December 2022)				
Time	13:22 – 16:27 (Mid-Ebb)				
	Mid-Ebb				
Monitoring Location	B1, B2, B3, B4, H1	POPOSED OUTFALL	FIA FIA PEA PEA PEA PEA PEA PEA PEA PE		
D. (					
Parameter	Suspended Solid (SS)	<b>Y</b> • •, <b>Y</b> •			
Action & Limit Levels	Action Level	Limit Level			
	$\geq 8.0 \text{ mg/L}$	$\geq 10.0 \text{ mg/L}$			
Measurement Level	Impact Station(s) of	Control Stations	Impact Station(s) without		
	Exceedance	$(0, m_{\alpha})/((C1A))$	Exceedance		
	9.8 mg/L (B1) 8.5 mg/L (B2)	6.0  mg/L (C1A)	7.7 mg/L (M1) 7.3 mg/L (F1A)		
	8.5  mg/L (B2)	6.5 mg/L (C2A)			
	8.8  mg/L (B3)		6.0  mg/L (CR1)		
	9.5 mg/L (B4) 11.2 mg/L (H1)		6.3 mg/L (CR2)		
	11.3 mg/L (H1)				
Possible reason for Action or Limit Level Non-compliance	<ul> <li>Works scheduled on site on 26 Dec 2022 include laying of 4.0T armour rock at Breakwater A landside Caisson 65, laying of 900kg underlayer rock at Seawall A seaside CH590 - CH700, piling works, piling works for pre-bored socketed H-pile, pile cap construction, blockwork seawall and existing caisson extension, and Process Building construction works.</li> <li>Dominant sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.</li> <li>Exceedances of action level were found at B1, B2, B3 and B4, and an exceedance of limit level was found at H1. B1, B2, B3, B4 and H1 are located at unrelated stream direction (neither upstream nor downstream) to the works location.</li> <li>According to the field observation by sampling team during sampling event, no silt</li> </ul>				
	plume was observed in the Project site.				

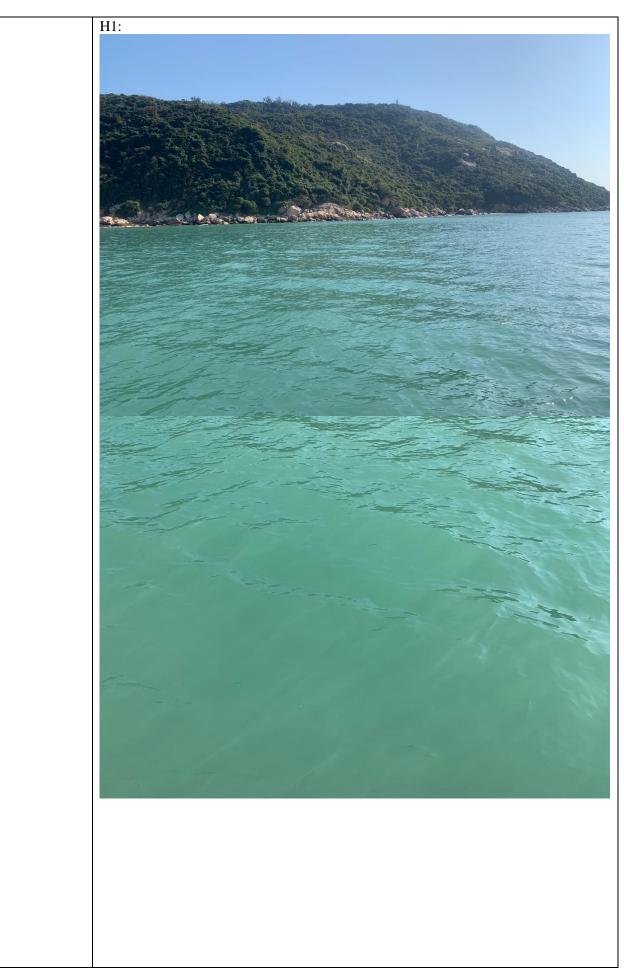
The installation of caisson No.19 was completed on 18 Mar 2021, the reclamation area was enclosed.
According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was fine during the sampling event.
No major observation of improper site practices that contributed to the increase of the suspended solids was recorded during the weekly site inspection on 28 December 2022.
After the investigation, the exceedances on 26 December 2022 during ebb tide at B1, B2, B3, B4 and H1 are deemed to be unrelated to the Project.

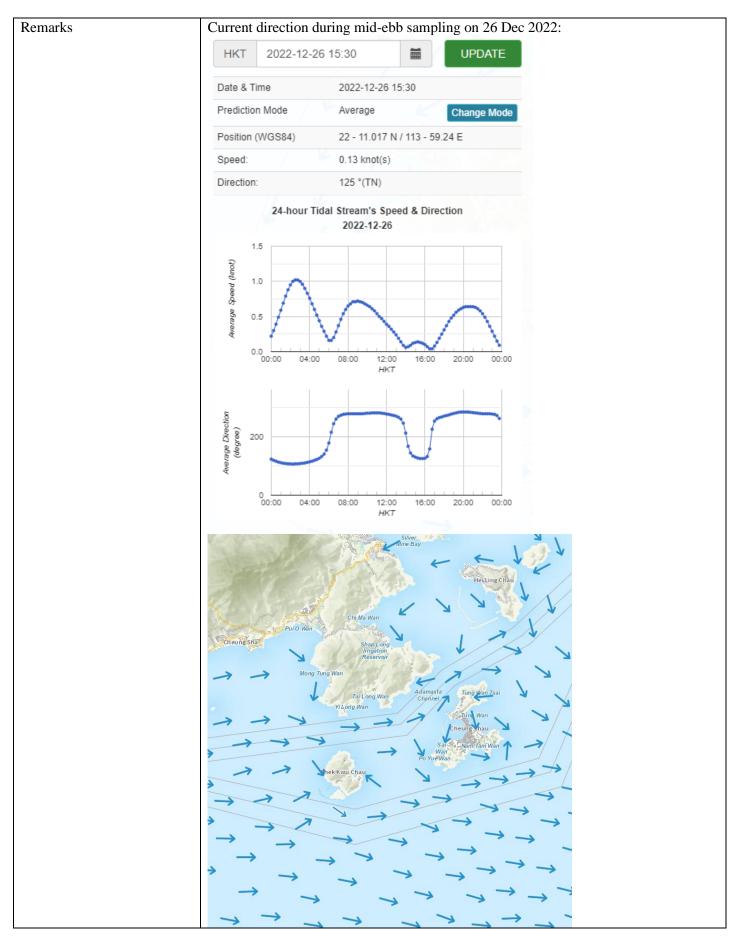








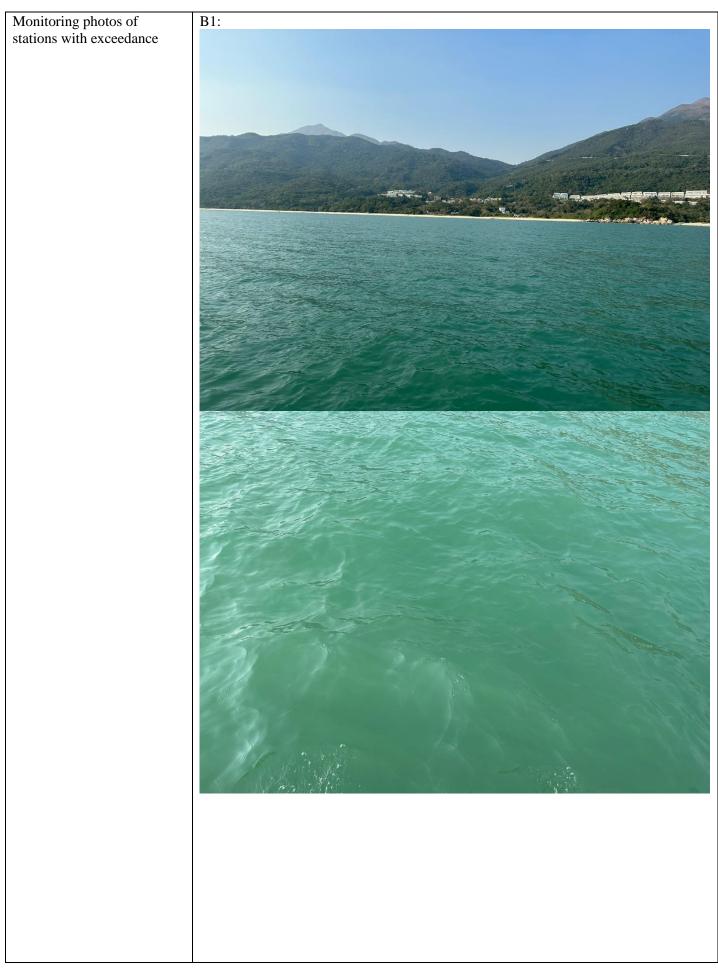


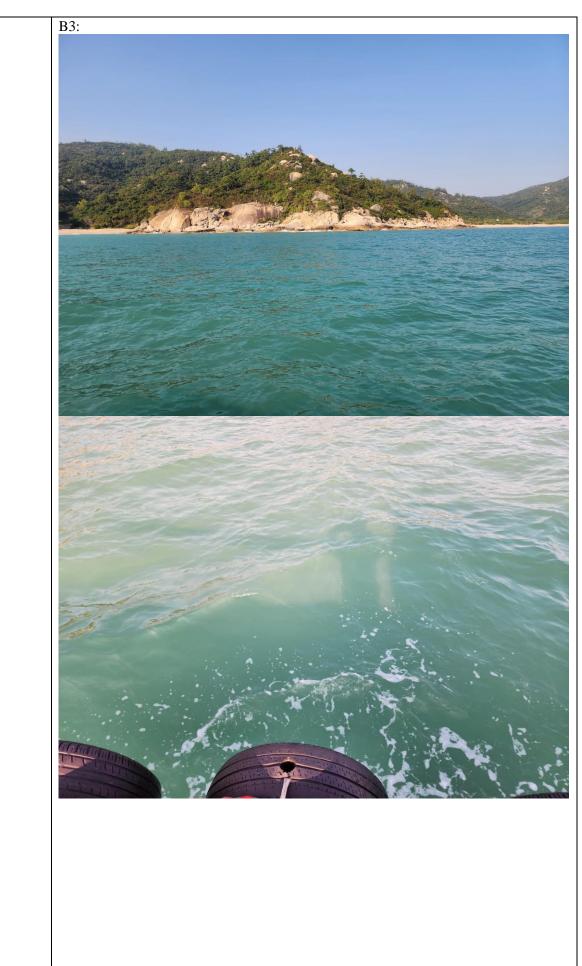


	Legend			
	Speed (knot)		Speed (knot)	
	0-0.5	$\rightarrow$	1.5-2.0	$\rightarrow$
	0.5-1.0	$\rightarrow$	2.0-2.5	$\rightarrow$
	1.0-1.5		2.5 and above	$\rightarrow$
	(Sourced from http://current.hydro.gov.hk/en/map.html)			
Prepared by	Jack Chow			
Date	6 Jan 2023			

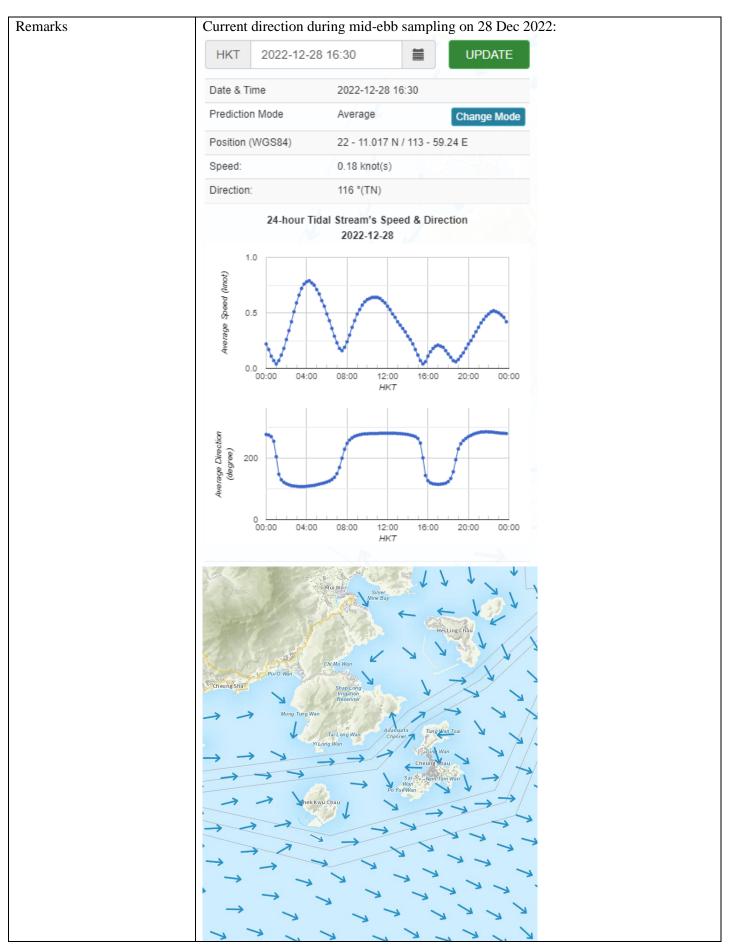
Project	Integrated Waste Management Facilities, Phase 1				
Date	28 Dec 2022 (Lab result received on 04 January 2023)				
Time	15:07 – 18:12 (Mid-Ebb)				
	Mid-Ebb				
Monitoring Location	B1, B3 + B1 S1	B2 PCPOOSED OUTFAIL S2A PCPOOSED 133AV SUBMARINE CABLES H H H H H H H CR2 S3 CR1 CR2 CR2 CR2 CR2 CR1 CR2 CR2 CR1 CR2 CR2 CR2 CR1 CR2 CR2 CR1 CR2 CR2 CR2 CR2 CR2 CR2 CR2 CR2	F1A PF1A N B4 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A M1 C2A C2A M1 C2A C2A C2A C2A C2A C2A C2A C2A		
Parameter	Suspended Solid (SS)				
Action & Limit Levels	Action Level	Limit Level			
	$\geq 8.0 \text{ mg/L}$				
Measurement Level	Impact Station(s) of	Control Stations	Impact Station(s) without		
	Exceedance		Exceedance		
	11.5 mg/L (B1)	4.5 mg/L (C1A)	7.3 mg/L (B2)		
	8.0 mg/L (B3)	4.5 mg/L (C2A)	4.8 mg/L (B4)		
		<i>6</i> ( <i>1</i> )	5.8 mg/L (H1)		
			5.3 mg/L (M1)		
			4.5 mg/L (F1A)		
			3.4  mg/L (CR1)		
Possible reason for Action or	Works scheduled on site of	28 Dec 2022 include law	3.1 mg/L (CR2)		
	Works scheduled on site on 28 Dec 2022 include laying of 4.0T armour rock at				
Limit Level Non-compliance	Breakwater A landside Caisson 65, laying of G200 rockfill at Caisson 47, piling works, piling works for pre-bored socketed H-pile, pile cap construction, blockwork seawall and existing caisson extension, and Process Building construction works.				
	Dominant sea current direction was found to be from Northwest to Southeast at waters around Shek Kwu Chau.				
	An exceedance of action level was found at B3, and an exceedance of limit level was found at B1.				
	B1 and B3 are located at unrelated stream direction (neither upstream nor downstream) to the works location.				

The installation of caisson No.19 was completed on 18 Mar 2021, the reclamation area was enclosed.
According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was sunny during the sampling event.
No major observation of improper site practices that contributed to the increase of the suspended solids was recorded during the weekly site inspection on 28 December 2022.
After the investigation, the exceedances on 28 December 2022 during ebb tide at B1 and B3 are deemed to be unrelated to the Project.





### Contract No. EP/SP/66/12 Integrated Waste Management Facilities, Phase 1

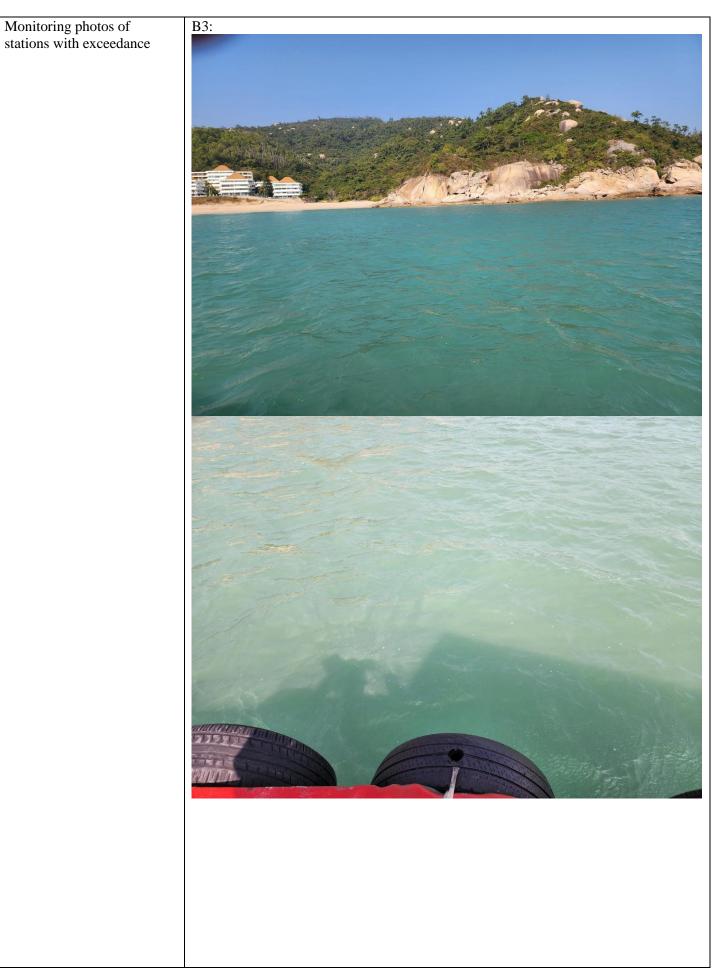


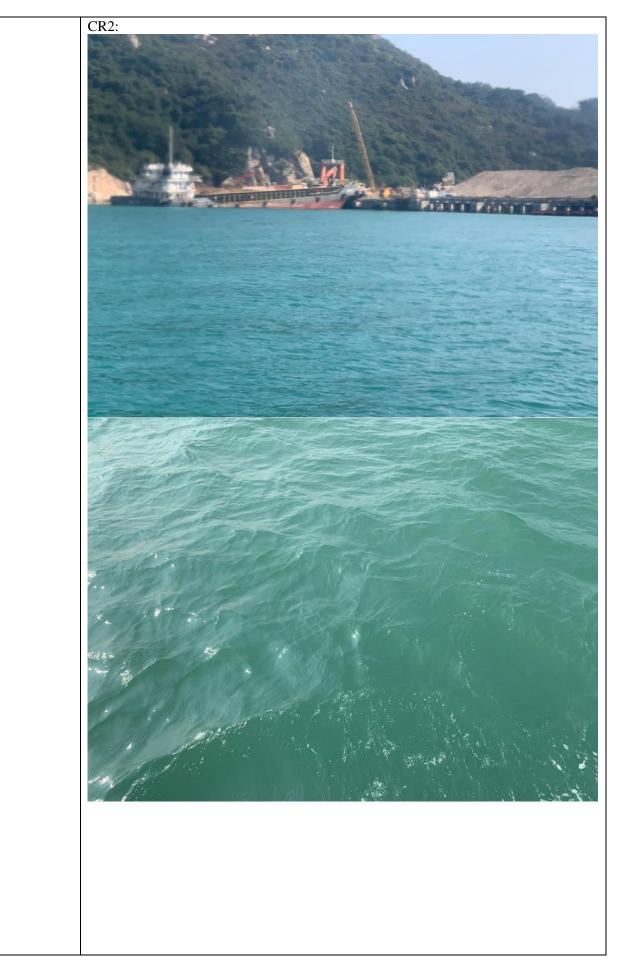
		Le	gend	
	Speed (knot)		Speed (knot)	
	0-0.5	$\rightarrow$	1.5-2.0	$\rightarrow$
	0.5-1.0	$\rightarrow$	2.0-2.5	$\rightarrow$
	1.0-1.5		2.5 and above	$\rightarrow$
	(Sourced from http://d	current.hy	dro.gov.hk/en/map.ht	ml)
Prepared by	Jack Chow			
Date	6 Jan 2023			

# Incident Report on Action Level or Limit Level Non-compliance

Project	Integrated Waste Manageme	nt Facilities, Phase 1	
Date	30 Dec 2022 (Lab result rece		
Time	11:11 – 14:41 (Mid-Flood)		
	17:08 – 19:00 (Mid-Ebb)		
	Mid-F	lood	
Monitoring Location	B3, CR2		
	+ B1 • S1	B2 PROPOSED OLIFALL + SZA 4 POPOSED ISAV SUBMARINE CABLES 4 4 4 4 4 4 4 4 4 4 4 4 4	FIA FIA PERA N N N N N N N N N N N N N
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Action Level	Limit Level	
	$\geq$ 9.2 mg/L (120% of C2A)		(130% of C2A)
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	9.8 mg/L (B3)	7.3 mg/L (C1A)	8.0 mg/L (B1)
	10.5 mg/L (CR2)	7.7 mg/L (C2A)	7.8 mg/L (B2)
			8.8 mg/L (B4)
			8.3 mg/L (H1)
			8.2 mg/L (F1A)
			5.8 mg/L (M1)
			8.8 mg/L (CR1)
Dessible messon for Astion or	Wayles scheduled on site or	20 Dec 2022 include louing	of 000120 up doulouser roots of
Possible reason for Action or			of 900kg underlayer rock at
Limit Level Non-compliance			ese pod at Caissons 45 - 48,
	laying of 900kg underlayer	rock at Seawall A seaside	CH20 - CH70, remove the
	surcharge materials from Zor	ne 5 to flat top barge Hong Ho	ong 3133, piling works, piling
	works for driven pile, piling	works for pre-bored socketed	H-pile, pile cap construction,
		_	rocess Building construction
	works.	ang cusson extension, and I	Toess Bunding construction
	Dominant sea current direction around Shek Kwu Chau.	on was found to be from Sou	theast to Northwest at waters

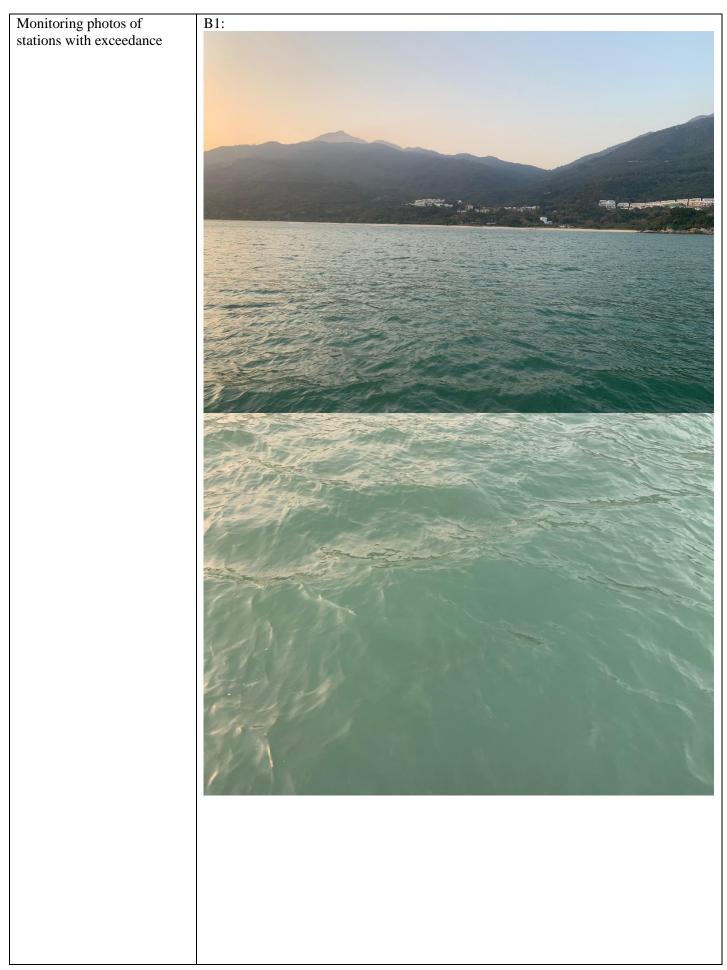
An exceedance of action level was found at B3, and an exceedance of limit level was found CR2. B3 is located at unrelated stream direction (neither upstream nor downstream, far away) to the works location. The exceedance at B3 is deemed to be unrelated to the Project.
The installation of caisson No.19 was completed on 18 Mar 2021, the reclamation area was enclosed.
According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was fine during the sampling event.
No major observation of improper site practices that contributed to the increase of the suspended solids was recorded during the weekly site inspection on 03 January 2023.
After the investigation, the exceedances on 30 December 2022 during flood tide at B3 and CR2 are deemed to be unrelated to the Project.

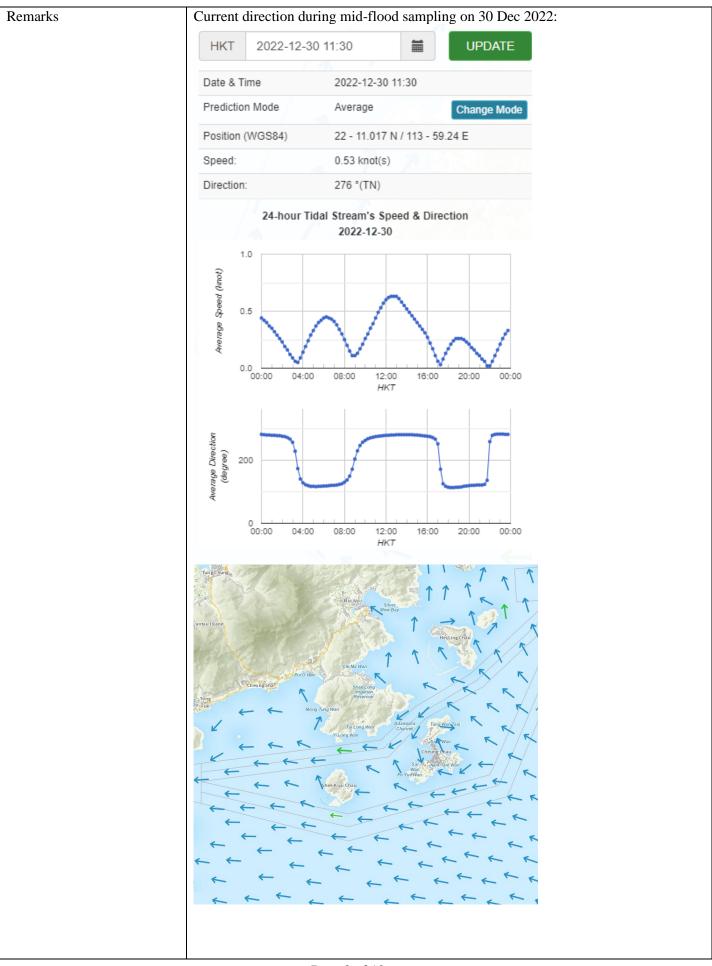




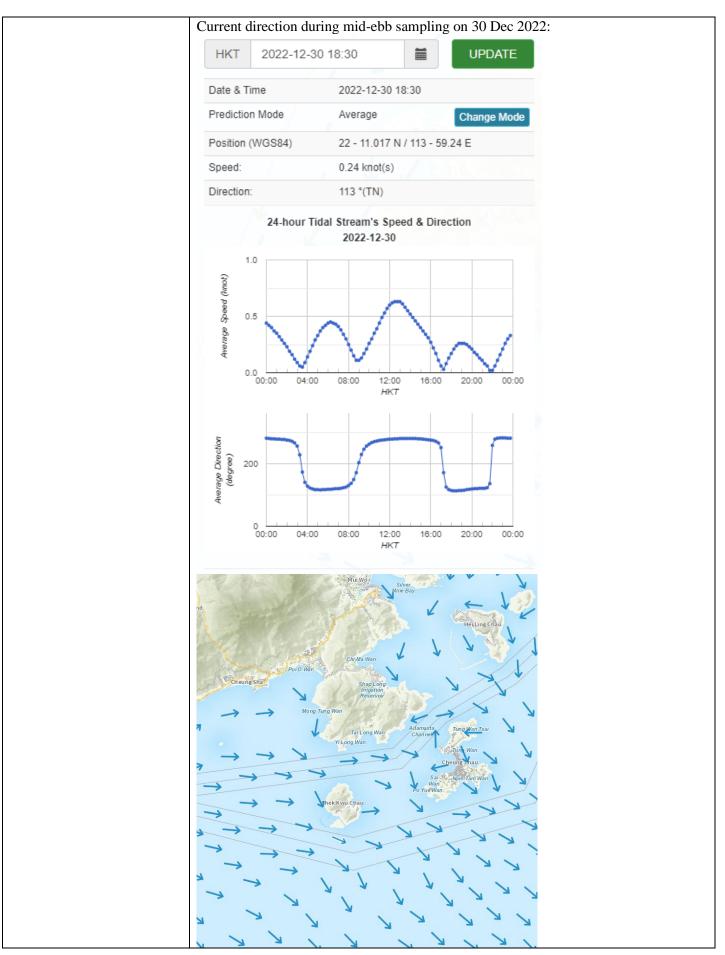
	Mid-1	Ebb	
Monitoring Location	B1 + B1 - S1 + - C1A	B2 CROPOSED OUTFALL CROPOSED 133W SUBMARINE CABLES H H SHEK KWU CHAU CR2 CR2 CR1 CR1 FOROPOSED RECLAIMED AREA FOR THE IMME	F1A F1A P1 P1 P1 P1 P1 P1 P1 P1 P1 P1
Demonstern	9		
Parameter Action & Limit Levels	Suspended Solid (SS) Action Level	Limit Level	
Action & Linnt Levels			
Measurement Level	$\geq$ 8.2 mg/L (120% of C1A) Impact Station(s) of Exceedance	$  \ge 10.0 \text{ mg/L}$ Control Stations	Impact Station(s) without Exceedance
	8.5 mg/L (B1)	6.8 mg/L (C1A) 6.5 mg/L (C2A)	7.0 mg/L (B2) 7.0 mg/L (B3) 7.8 mg/L (B4) 6.7 mg/L (F1A) 7.8 mg/L (H1) 7.5 mg/L (M1) 5.8 mg/L (CR1) 7.2 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	Seawall A seaside CH370 - laying of 900kg underlayer surcharge materials from Zor works for driven pile, piling blockwork seawall and exist works. Dominant sea current directi around Shek Kwu Chau. An exceedance of action le direction (neither upstream r B1 is deemed to be unrelated	30 Dec 2022 include laying CH600, installation of China r rock at Seawall A seaside ne 5 to flat top barge Hong Ho works for pre-bored socketed ting caisson extension, and P ion was found to be from Nort evel was found at B1. B1 is nor downstream) to the works d to the Project.	ese pod at Caissons 45 - 48, CH20 - CH70, remove the ong 3133, piling works, piling H-pile, pile cap construction, rocess Building construction thwest to Southeast at waters located at unrelated stream clocation. The exceedance at

According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was fine during the sampling event.
No major observation of improper site practices that contributed to the increase of the suspended solids was recorded during the weekly site inspection on 03 January 2023.
After the investigation, the exceedance on 30 December 2022 during ebb tide at B1 is deemed to be unrelated to the Project.





### Contract No. EP/SP/66/12 Integrated Waste Management Facilities, Phase 1



		Le	gend	
	Speed (knot)		Speed (knot)	
	0-0.5	$\rightarrow$	1.5-2.0	$\rightarrow$
	0.5-1.0	$\rightarrow$	2.0-2.5	$\rightarrow$
	1.0-1.5		2.5 and above	$\rightarrow$
	(Sourced from http://d	current.hy	dro.gov.hk/en/map.ht	ml)
Prepared by	Jack Chow			
Date	10 Jan 2023			

Appendix O Complaint Log

Integrated Waste Management Facilities, Phase 1

# Statistical Summary of Environmental Complaints

Reporting	F	Environmental Complaint Sta	tistics
Period	Frequency	Cumulative	Complaint Nature
01 Dec 2022- 31 Dec 2022	0	1	N/A

# Statistical Summary of Environmental Summons

Reporting	]	Environmental Summons Sta	tistics
Period	Frequency	Cumulative	Details
01 Dec 2022-	0	0	N/A
31 Dec 2022	0	0	IN/A

## Statistical Summary of Environmental Prosecution

Reporting	E	nvironmental Prosecution Sta	atistics
Period	Frequency	Cumulative	Details
01 Dec 2022-	0	0	N/A
31 Dec 2022	0	0	IN/A

# Appendix P Impact Monitoring Schedule of Next Reporting Month

			Impact Monitoring Schedule for IWMF		
			Jan-23		
Sun	Mon	Tue	Wed	Thu	Fri
1	2 Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 06:44 - 11:08 Flood Tide: 11:08 - 18:45 Monitoring Time: *#\$Mid=ebb: 06:30 - 10:54 Mid-flood: 13:11 - 16:41	3	4 Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 09:42 - 12:04 Flood Tide: 12:04 - 19:41 Monitoring Time: *#\$SMid-ebb: 09:49 - 11:56 Mid-flood: 14:07 - 17:37 Daytime & Evening Noise monitoring for M1, M2 & M3	5 Impact Night time Noise monitoring for M1, M2 & M3 Ecology monitoring for WBSE	6 Water Quality monitoring for B1, B2, Tridal Ebb Tide: Flood Tide: Monito #SMid-ebb: Mid-flood:
8	9 Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 12:22: 14:52 Flood Tide: 14:52 - 22:03 Monitoring Time: #\$Mid-dbb: 12:29 - 14:44 #\$Mid-flood: 15:13 - 18:43 Daytime & Evening Noise monitoring for M1, M2 & M3	10 Impact Night time Noise monitoring for M1, M2 & M3	11 Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 13:13 - 16:42 Flood Tide: 16:42 - 22:58 Monitoring Time: #\$Midi-ebb: 13:25 - 16:31 #\$&Midi-flood: 17:00 - 19:00 Ecology monitoring for Marine Mammals by Vessel-based Line-Transect Survey	12 Impact Ecology monitoring for WBSE	13 Im Water Quality monitoring for B1, B2, Tidal Ebb Tide: Flood Tide: Monito Mid-ebb: Mid-flood:
15		17	18	19	20
	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 16:36-23:14 Flood Tide: 09:22-16:36 Monitoring Time: #\$&Mid-ebb: 16:55-19:00 Mid-flood: 11:13 - 14:43 Daytime & Evening Noise monitoring for M1, M2 & M3	Impact Night time Noise monitoring for M1, M2 & M3 Ecology monitoring for Marine Mammals by Vessel-based Line-Transect Survey	Impact Water Quality monitoring for 81, 82, 88, 84, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tidie: 07:45 - 10:51 Flood Tidie: 10:51 - 17:49 Monitoring Time: **\$\$Mid-ebb: 08:00 - 10:41 Mid-flood: 12:35 - 16:05	Impact Ecology monitoring for WBSE	m Water Quality monitoring for 81, 82, Tidal Ebb Tide: Fiolod Tide: Monito #SMid-ebb: Mid-filood:
22	23	24	25	26	27
		Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 12:42 - 16:36 Flood Tide: 16:36 - 23:04 Monitoring Time: Mid-ebb: 12:54 - 16:24 #\$8.Mid-flood: 16:55 - 19:00		Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 14:03 - 18:20 Flood Tide: 06:51 - 14:03 Monitoring Time: Mid-flood: 08:42 - 17:56 Mid-flood: 08:42 - 12:12 Daytime & Evening Noise monitoring for M1, M2 & M3 Ecology monitoring for WBSE	im Night time Noise mon
29		31			
	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 05:01 - 08:36 Flood Tide: 00:86 - 17:15 Monitoring Time: *#SNMid-ebb: 08:00 - 08:33 Mid-flood: 11:10 - 14:40 Daytime & Evening Noise monitoring for M1, M2 & M3	Impact Night time Noise monitoring for M1, M2 & M3			

Remarks: 1. Daytime Noise Monitoring (07:00-1900), Evening Time Noise Monitoring (1900-2300), Night Time Noise Monitoring (2300-0700) 2. Water Quality Monitoring for \$1,\$2 and \$3 will only conduct during DCM works, refer to Detailed DCM Plan

	Sat
	7
Impact	
or B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period:	
Ebb Tide: 10:54 - 12:54	
lood Tide: 12:54 - 20:37	
Monitoring Time:	
SMid-ebb: 11:00 - 12:48	
/id-flood: 15:00 - 18:30	
	14
Impact	
r B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period:	
Ebb Tide: 14:34 - 18:40	
lood Tide: 07:37 - 14:34	
Monitoring Time:	
Mid-ebb: 14:52 - 18:22	
/id-flood: 09:20 - 12:50	
	21
Impact	
or B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1	
Tidal Period:	
Ebb Tide: 09:59 - 12:43	
lood Tide: 12:43 - 19:21 Monitoring Time:	
Mid-ebb: 09:36 - 12:34	
Nid-flood: 14:17 - 17:47	
	28
Impact	Impact
Impact loise monitoring for M1, M2 & M3	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1
Impact Joise monitoring for M1, M2 & M3	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period:
impact ioise monitoring for M1, M2 & M3	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 15:35 - 20:48
impact Joise monitoring for M1, M2 & M3	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 15:35 - 20:48 Flood Tide: 07:51 - 15:35
Impact Joise monitoring for M1, M2 & M3	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 15:35 - 20:48 Flood Tide: 07:51 - 15:35 Monitoring Time:
Impact loise monitoring for M1, M2 & M3	Impact Water Quality monitoring for B1, 82, 83, 84, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 15:35 - 20:48 Flood Tide: 07:51 - 15:35 Monitoring Time: #\$&Mid-ebb: 15:50 - 19:00
Impact Joise monitoring for M1, M2 & M3	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 15:35 - 20:48 Flood Tide: 07:51 - 15:35 Monitoring Time:
Impact Joise monitoring for M1, M2 & M3	Impact Water Quality monitoring for B1, 82, 83, 84, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 15:35 - 20:48 Flood Tide: 07:51 - 15:35 Monitoring Time: #\$&Mid-ebb: 15:50 - 19:00
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Impact Joise monitoring for M1, M2 & M3	Impact Water Quality monitoring for B1, 82, 83, 84, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 15:35 - 20:48 Flood Tide: 07:51 - 15:35 Monitoring Time: #\$&Mid-ebb: 15:50 - 19:00
Impact Jooise monitoring for M1, M2 & M3	Impact Water Quality monitoring for B1, 82, 83, 84, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 15:35 - 20:48 Flood Tide: 07:51 - 15:35 Monitoring Time: #\$&Mid-ebb: 15:50 - 19:00
Impact Joise monitoring for M1, M2 & M3	Impact Water Quality monitoring for B1, 82, 83, 84, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 15:35 - 20:48 Flood Tide: 07:51 - 15:35 Monitoring Time: #\$&Mid-ebb: 15:50 - 19:00
Impact Joise monitoring for M1, M2 & M3	Impact Water Quality monitoring for B1, 82, 83, 84, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 15:35 - 20:48 Flood Tide: 07:51 - 15:35 Monitoring Time: #\$&Mid-ebb: 15:50 - 19:00
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Impact Joise monitoring for M1, M2 & M3	Impact Water Quality monitoring for B1, 82, 83, 84, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 15:35 - 20:48 Flood Tide: 07:51 - 15:35 Monitoring Time: #\$&Mid-ebb: 15:50 - 19:00
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Impact Joise monitoring for M1, M2 & M3	Impact Water Quality monitoring for B1, 82, 83, 84, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 15:35 - 20:48 Flood Tide: 07:51 - 15:35 Monitoring Time: #\$&Mid-ebb: 15:50 - 19:00
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