環境保護署 plaction Department

Contract No. EP/SP/66/12 Integrated Waste Management Facilities, Phase 1 Monthly EM&A Report No.55



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

## Monthly EM&A Report No.55 (Period from 1 January to 31 January 2023)

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

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### **Document No.**

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Date:	12 April 2023	12 April 2023	12 April 2023

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## **Revision History**

Rev.	<b>DESCRIPTION OF MODIFICATION</b>	DATE
A	First Submission	14 February 2023
В	Updated Table 2.9, Section 6.4.1.1 and Figure 6.6	06 April 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 55<sup>th</sup> 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 January to 31 January 2023.

#### 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, nine (9) of general water quality monitoring results of SS obtained during the reporting period had exceeded the Action Level and ten (10) 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 03, 10, 17, 26 and 31 January 2023 to audit the mitigation measures implementation status. Monthly joint site inspection was carried out on 17 January 2023 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 January 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

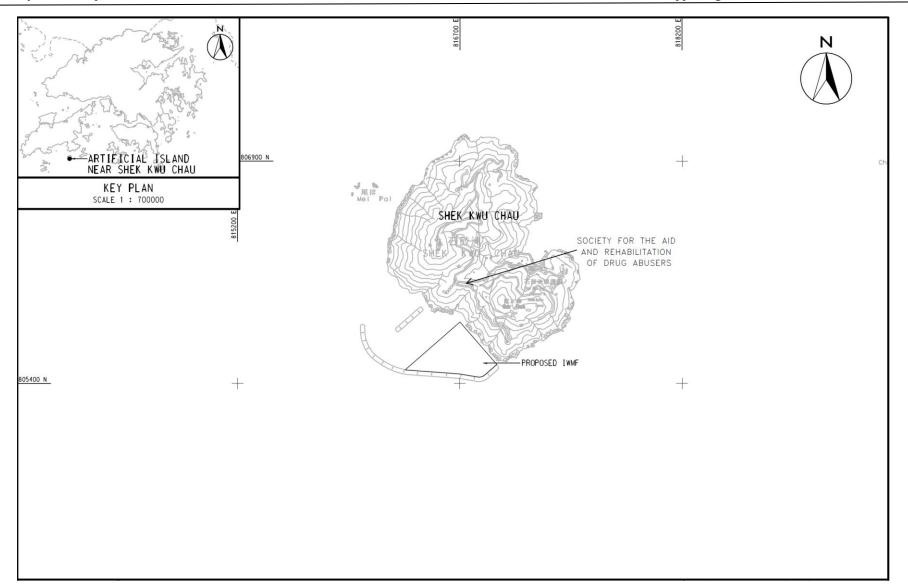


Figure 1.1 Location of the IWMF at the Artificial Island near SKC

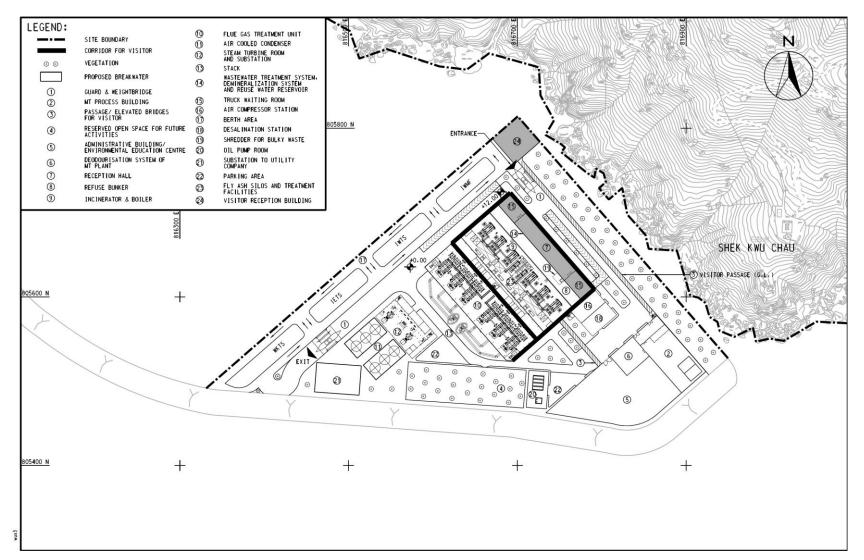
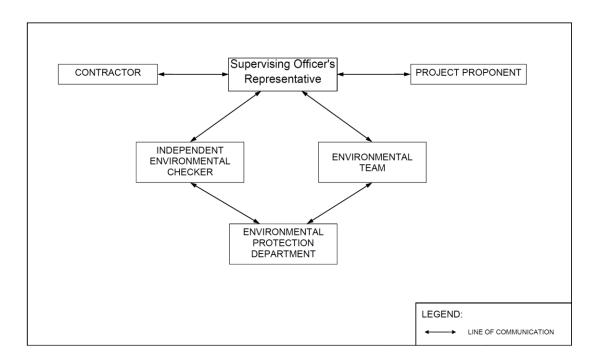


Figure 1.2 General Layout of the IWMF at the Artificial Island near SKC

#### 1.2 The Reporting Scope

- 1.2.1 This is the 55<sup>th</sup> Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 January 2023 to 31 January 2023.
- 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

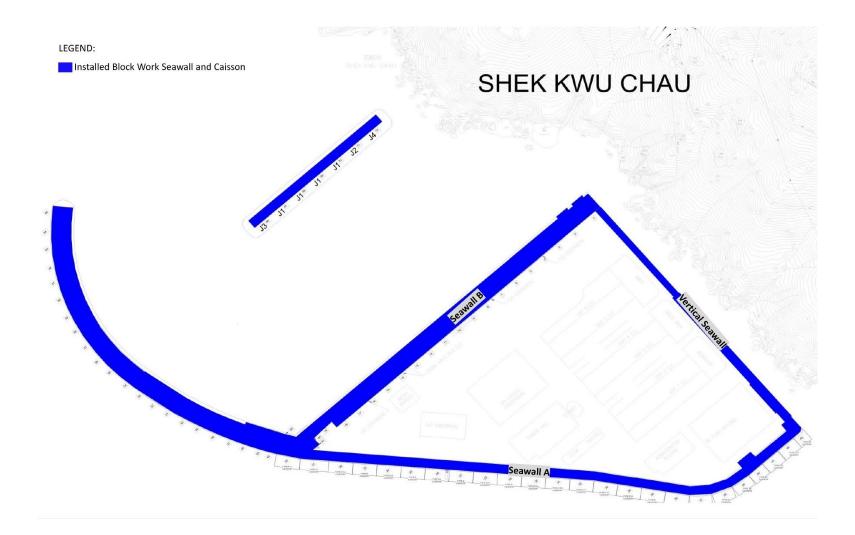


Figure 1.4 Location of Major Construction Activities Undertaken during the Reporting Month

#### 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-RS1077-22	15/12/2022– 14/06/2023	Portion 1, 1A & 1B (Superseded by GW- RS0032-23 on 20/01/2023)
Construction Noise Permit (24 hours)	GW-RS0032-23	20/01/2023– 17/07/2023	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	r
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 Mitigation Measures in	On-going Installation of caisson No.19 was completed on 18 March 2021,
Marine Mammal Watching Plan (MMWP)	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**.

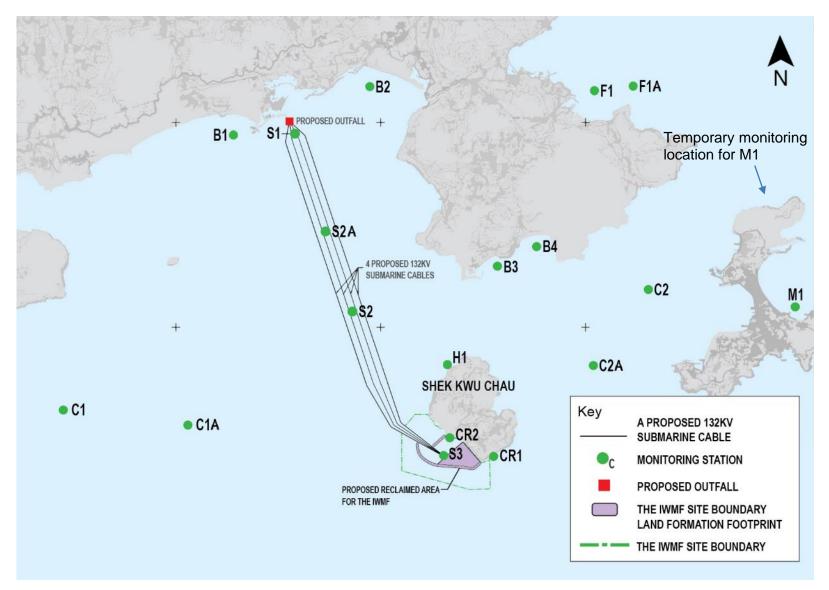
## 2. MARINE WATER QUALITY MONITORING

- 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	
<ul> <li>Water Depth (m)</li> <li>Temperature (°C)</li> <li>Salinity (ppt)</li> <li>pH (pH unit)</li> <li>Dissolved Oxygen (DO) (mg/L and % of saturation)</li> <li>Turbidity (NTU)</li> <li>Suspended Solids (SS), mg/L</li> </ul>	General water quality monitoring : 3 days per week, at mid-flood and mid-ebb tides	<ul><li>3 water depths: 1m below sea surface, mid-depth and 1m above sea bed.</li><li>If the water depth is less than 3m, mid-depth sampling only.</li><li>If water depth less than 6m, mid-depth may be omitted.</li></ul>	

#### 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	$\pm 1^{\circ}$	$\pm 2^{\circ}$	

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 <sup>i</sup>	1 mg/L	

Footnote:

"APHA 2540 D" stands for American Public Health Association Standard Methods for the Examination of Water and Wastewater, 23<sup>rd</sup> 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 Sampler	Wildco 2 L Water Sampler
		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 Ph	Construction Phase Impact Monitoring				
DO in mg/L	$\leq$ 5 %-ile of baseline data	$\leq$ 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 <sup>°</sup> 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	$\leq 4$				
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				
Temperature1.8°C above the temperaturein°Crecorded at representative controlstation at the same tide of the sameday		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 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, 4, 6, 9, 11, 13, 16, 18, 20, 24, 26, 28 and 30 January 2023 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	P.1	(NTU)	Solids (mg/L)	Tempi( e)
	Avg.	32.47	8.76	8.75	8.25	3.7	5.21	21.1
B1	Min.	30.76	8.15	8.19	8.10	2.5	2.00	20.0
	Max.	33.69	9.54	9.57	8.37	5.4	27.00	22.0
	Avg.	32.26	8.59	8.58	8.26	3.6	5.45	21.0
B2	Min.	30.43	8.19	8.21	8.07	2.6	2.00	19.8
	Max.	33.85	9.53	9.57	8.36	5.4	28.00	22.3
	Avg.	32.38	8.84	8.85	8.27	4.5	5.16	21.0
B3	Min.	31.30	8.17	8.19	8.12	3.0	2.00	19.8
	Max.	33.75	9.53	9.60	8.39	7.2	27.00	22.1
	Avg.	32.16	8.80	8.79	8.27	4.5	4.72	21.0
B4	Min.	30.30	8.16	8.20	8.11	3.1	2.00	19.8
	Max.	33.46	9.57	9.57	8.39	6.4	25.00	22.3
	Avg.	32.56	8.90	8.89	8.28	5.7	4.99	21.0
C1A	Min.	30.64	8.19	8.21	8.14	3.8	2.00	19.8
	Max.	33.83	9.73	9.54	8.40	8.3	18.00	22.0
	Avg.	32.39	8.72	8.72	8.25	5.7	5.18	21.1
C2A	Min.	30.35	8.18	8.18	8.06	3.5	2.00	20.1
	Max.	33.72	9.50	9.49	8.39	9.3	14.00	22.2
	Avg.	32.28	8.74	8.74	8.26	4.7	5.53	21.0
CR1	Min.	30.93	8.06	8.09	8.14	3.3	2.00	19.9
	Max.	33.70	9.59	9.50	8.37	7.2	25.00	22.2
	Avg.	32.42	8.70	8.70	8.27	4.7	5.57	21.0
CR2	Min.	30.89	8.18	8.15	8.12	3.0	2.00	19.8
	Max.	33.46	9.54	9.39	8.40	6.9	23.00	22.0
	Avg.	32.28	8.97	8.99	8.26	4.4	4.96	21.0
F1A	Min.	30.49	8.26	8.27	8.10	2.9	2.00	19.7
	Max.	33.83	9.68	9.61	8.41	7.4	29.00	22.3
	Avg.	32.31	8.94	8.95	8.26	4.3	5.58	21.0
H1	Min.	30.70	8.24	8.25	8.07	2.7	2.00	19.8
	Max.	33.80	9.58	9.59	8.39	7.2	27.00	22.0
	Avg.	32.32	8.97	8.96	8.28	4.4	5.85	21.0
M1	Min.	30.47	8.14	8.18	8.16	2.8	2.00	19.9
	Max.	34.01	9.68	9.61	8.37	8.3	32.00	22.1
S1	Avg.	-	-	-	-	-	-	-
51	Min.	-	-	-	-	-	-	-
	Max.	-	-	-	-	-	-	-
S2A	Avg.	-	-	-	-	-	-	-
52A	Min.	-	-	-	-	-	-	-
	Max.	-	-	-	-	-	-	-
<b>S</b> 3	Avg.	-	-	-	-	-	-	-
33	Min.	-	-	-	-	-	-	-
	Max.	-	-	-	-	-	-	-

#### **Table 2.9 Summary of Impact Water Quality Monitoring Results**

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, nine (9) of general water quality monitoring results of SS obtained during the reporting period had exceeded the Action Level and ten (10) 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 No project-related Action Level & Limit Level exceedance was recorded from 1 January 2023 to 31 January 2023.
- 2.8.5 Details of the exceedance are presented in **Section 8**.
- 2.8.6 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)	Once per week L <sub>eq 5min</sub> /L <sub>eq 30min</sub> (average of 6 consecutive L <sub>eq 5min</sub> )	L <sub>eq</sub> , L <sub>10</sub> & L <sub>90</sub>
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 <sub>eq 5min</sub> (3 sets of L <sub>eq 5min</sub> )	L <sub>eq</sub> , L <sub>10</sub> & L <sub>90</sub>
	Night time: 2300-0700 hrs (including normal weekdays, also public holidays and Sundays)	Once per week L <sub>eq 5min</sub> (3 sets of L <sub>eq</sub> <sub>5min</sub> )	L <sub>eq</sub> , L <sub>10</sub> & L <sub>90</sub>

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.

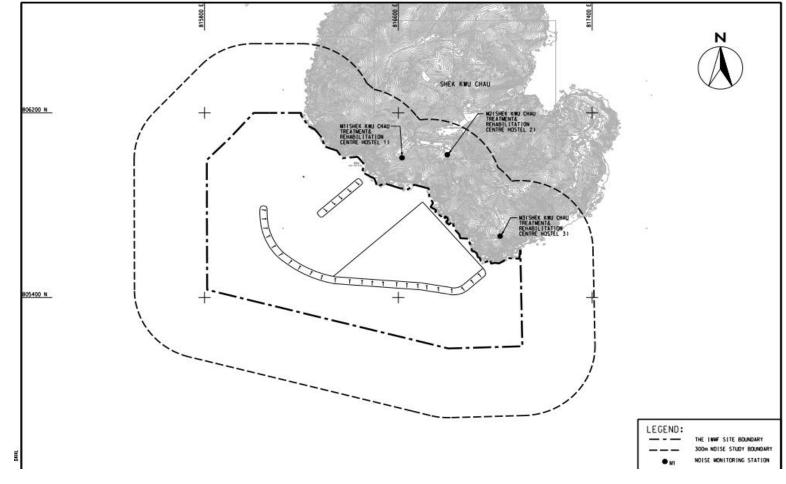


Figure 3.1 Noise monitoring locations at SKC

- 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<sub>eq 5min</sub>"] 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<sub>eq</sub>, L<sub>10</sub> and L<sub>90</sub> 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 04, 09, 16, 26 and 30 January 2023. Impact monitoring for noise impact for evening time and night time was carried out on 04&05, 09&10, 16&17, 26&27, 30&31 January 2023. 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 <sub>10 30min</sub>	Range of L <sub>90 30min</sub>						
M1	48.3 - 62.4	50.7 - 65.2	45.4 - 56.8						
M2	50.0 - 58.0	51.6 - 61.4	47.5 – 53.9						
M3	48.7 - 65.6	50.6 - 70.9	44.9 – 54.9						

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 <sub>10 5min</sub>	Range of L90 5min						
M1	39.3 - 46.5	40.9 - 49.1	38.1 – 43.1						
M2	45.4 - 50.7	46.0 - 54.9	43.4 - 48.5						
M3	40.4 - 50.5	40.8 - 53.9	38.4 - 43.0						

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

Table 3.8 Summ (2300 – 0700 hou	ary of Additional Impact Noise Monitoring Results during Night Time rs)

Location	Measured Noise Level in dB(A)								
	Range of Leq 5min	Range of L <sub>10 5min</sub>	Range of L <sub>90 5min</sub>						
M1	36.3 - 43.1	37.2 - 45.6	35.2 - 39.8						
M2	42.9 - 51.8	43.5 - 53.6	42.4 - 49.4						
M3	36.4 - 49.4	37.2 - 57.6	35.3 - 45.9						

## 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 24,672.8 m<sup>3</sup> C&D materials were generated on site in the reporting month, of which 24,672.8 m<sup>3</sup> of the materials were reused in other projects. For C&D waste, no metal was generated and collected by registered recycling collector. 315.0 kg 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. 136.5 m<sup>3</sup> 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. 1,354.5 m<sup>3</sup> 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.

Table 4.1 Quantities of Waste Generated from t	the Project during January 2023
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	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly						
	Total	Hard Rock	Daugadin	Daugadin	Disposed	Imported Fill			Danar /	Plastics			Others,	
Reporting Month	Total Quantityand Large BrokenGeneratedConcrete (see Note 1)	Reused in Reused in the other Contract Projects		Disposed as Public Fill	Sand	Public Fill	Rock	Metals		(see Note 2)	Chemical Waste		e.g. general refuse (see Note 3)	
	(in ,000m <sup>3</sup> )	(in ,000m <sup>3</sup> )	(in ,000m <sup>3</sup> )	(in ,000m <sup>3</sup> )	(in ,000m <sup>3</sup> )		(in ,000m <sup>3</sup> )		(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	(in ,000m <sup>3</sup> )
Jan 2023	24.6728	0	0	24.6728	0	0	0	1.3545	0	0.3150	0	0	0	0.1365

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 =  $2 \text{ T/m}^3$ .

# 5. CORAL

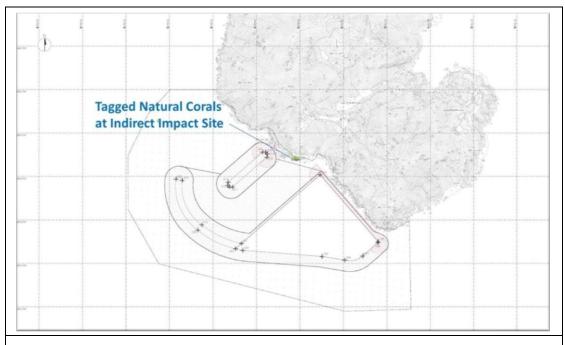
- 5.1 Coral Monitoring Requirements
- 5.1.1 To monitor the health condition of corals during different phases, corals located within areas likely to be affected by the Project, corals located at control sites (areas unlikely to be affected by the Project), the trans-located coral colonies as well as 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 <sup>st</sup> Month	Weekly Survey	4
	2 <sup>nd</sup> to 3 <sup>rd</sup> Months	Monthly Survey	2
	4 <sup>th</sup> Month (postponed		al Colonies in Indirect
	to 5 <sup>th</sup> month due to	Impact Site after Ty	
	diver accident in Shek		
	Kwu Chau in October		
	2018)		
	4 <sup>th</sup> Month (postponed	Re-tagging of Cora	al Colonies in Control
	to 5 <sup>th</sup> month due to	Site after Typhoon Mangkhut	
	diver accident in Shek		
	Kwu Chau in October		
	2018 and further		
	postpone to 6 <sup>th</sup> month		
	due to adverse		
	weather)		
	5 <sup>th</sup> Month (postponed	Post Re-tagging	1
	to 6 <sup>th</sup> month due to	Monthly Survey	
	diver accident in Shek		
	Kwu Chau and further		
10 selected hard coral	postponed to 7 <sup>th</sup>		
colonies at control site / indirect impact site	month due to delay of		
	re-tagging activities at		
	both Indirect Impact		
	Site and Control Site)		
	7 <sup>th</sup> to 56 <sup>th</sup> Months	Quarterly Survey	16
	(postponed to 8 <sup>th</sup> to		
	57 <sup>th</sup> month due to		
	diver accident in Shek		
	Kwu Chau in October		
	2018) 57 <sup>th</sup> to 76 <sup>th</sup> Months	D:	3
		Bi-annually	3
	(The marine construction work is	Survey	
	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 <sup>st</sup> 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:



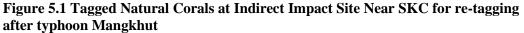




Figure 5.2 Tagged Natural Corals at Control Site Near Yuen Kong Chau for retagging after typhoon Mangkhut



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

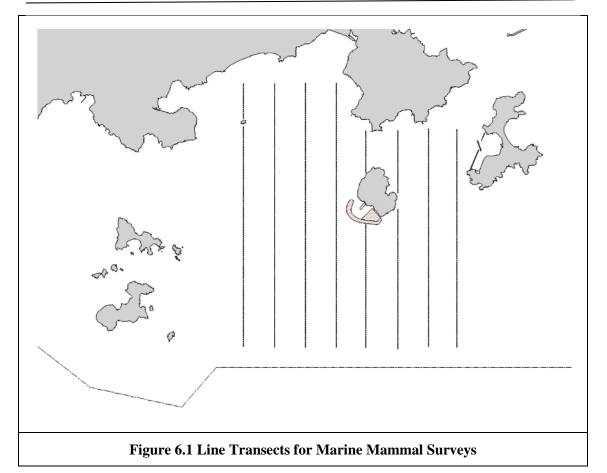
#### Table 5.6 Action and Limit Levels for Post-Translocation Coral Monitoring

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 No coral monitoring survey had been done during the reporting period and the 17<sup>th</sup> quarterly coral monitoring during construction phase at both Indirect Impact Site and Control Site would be scheduled in March 2023.

## 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.

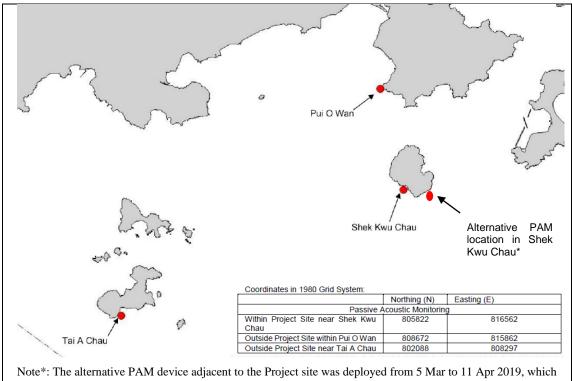
- 6.2.1.5 During on-effort survey periods, the survey team shall record effort data including time, position (latitude and longitude), weather conditions (Beaufort sea state and visibility), and distance travelled in each series (a continuous period of search effort) with the assistance of a handheld 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-km<sup>2</sup> 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-km<sup>2</sup> 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-km<sup>2</sup> 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.

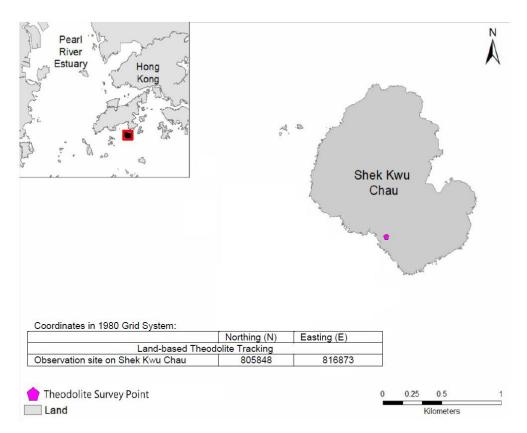


Figure 6.3 Locations of Land-based Theodolite Tracking

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
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.

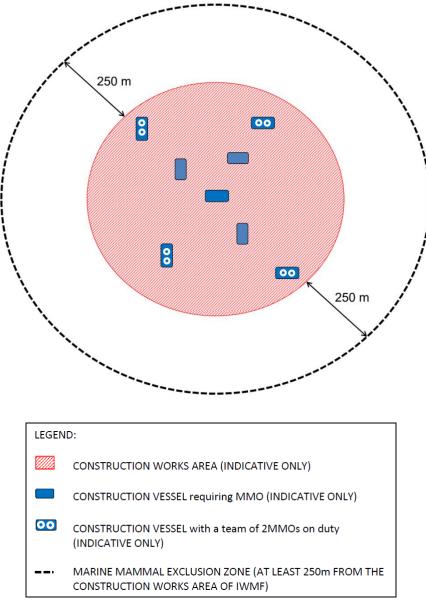


Figure 6.4 Illustration of Typical MMEZ

- 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 11 and 17 January 2023. As this is the designated peak season (December May), two surveys were completed. A total of 80.0 km on effort (transects only) survey length was completed, 86.1% of which was conducted at Beaufort Sea State 2 or better (Table 6.4). Three on-effort finless porpoise sightings were recorded and confirmed by qualified ecologist (Table 6.5, Figure 6.5). Representative photo taken of sighting recorded on 11 January 2023 is presented in Figure 6.6.

Date	Area*	Beaufort	Effort (km)	Season	Vessel	Effort Type**
11 Тописати		1	11.0		CEAMAD	
11 January 2023	SEL	2	17.7	WINTER	SEAMAR HK	Р
		3	11.0			
17 1		1	20.8		CEAMAD	
17 January 2023	SEL	2	19.4	WINTER	SEAMAR	Р
2025		3	0.1	]	НК	

#### 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

	Tuble die Bightings Feedraed daring Sandary 2020 Vesser based Eine Franseer Sarvey											
Date	Species	Sighting No.	Time	Group Size	PSD	Behaviour	Lat.	Long.	Area	Effort	Season	
11 Jan 2023	Finless Porpoise	132	12:48	2	60	Travelling	22.18372	113.9546	SEL	On	WINTER	
11 Jan 2023	Finless Porpoise	133	13:03	4	13	Feeding	22.16995	113.9449	SEL	On	WINTER	
17 Jan 2023	Finless Porpoise	134	11:59	3	51	Feeding	22.21728	113.9733	SEL	On	WINTER	

#### Table 6.5 Sightings recorded during January 2023 Vessel-based Line-transect Survey

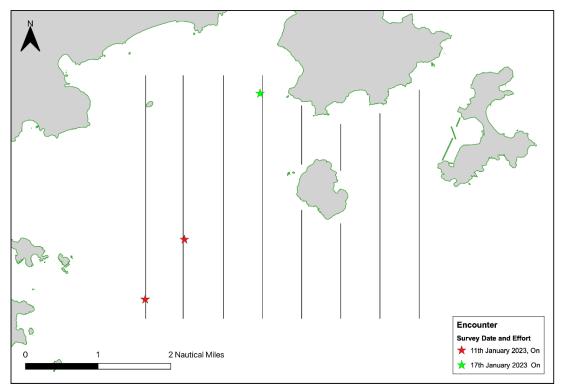


Figure 6.5 Location of sightings recorded during January 2023 Vessel-based Line transect Survey



Figure 6.6 Representative Photos taken of sighting recorded during Vessel-based Line-transect Survey

- 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 January data. The EIA was conducted during the peak porpoise months (December-May 2008-09) and can be compared to the survey month of January. The AFCD long term monitoring data can also be compared directly to January 2023 Impact Survey results. The January 2019, 2020, 2021 & 2022 impact survey results could be compared directly to January 2019, and the function of impact monitoring is January 2019, 2020, 2021 & 2022 respectively and these data were included.
- 6.4.1.3 A review of the Beaufort Sea State in October survey conditions between 2009 and 2018 (only data available from AFCD at times of writing; AFCD 2018<sup>1</sup>; 2017<sup>2</sup>; 2016<sup>3</sup>; 2015<sup>4</sup>; 2014<sup>5</sup>; 2013<sup>6</sup>; 2012<sup>7</sup>; 2011<sup>8</sup>; 2010<sup>9</sup>) show that between 14.9% and 100% of survey effort has been conducted at Beaufort Sea State 2 or better in the past. For this project in January 2023, 86.1% of the survey was conducted at Beaufort Sea State 2 or better and, as such, survey conditions in January 2023 were above the average recorded for this month by previous AFCD surveys and the EIA (2009-2010 Average: 55.0%).
- A review of the porpoise sightings in the survey area for January between 2009-6.4.1.4 2018 indicate that there are fluctuations between the number of sightings usually recorded. For all weather conditions, and for the nine years data available, one (1) sighting was recorded in one year (2009 conducted by AFCD), two (2) sightings were recorded in one year (2015 conducted by AFCD), three (3) sightings were recorded in two years (2010, 2012 and 2016 conducted by AFCD), seven (7) sightings were recorded in two years (2014 and 2017 conducted by AFCD) and nine (9) sightings were recorded in two years (2013 and 2018 conducted by AFCD). No AFCD surveys were conducted in 2009. The EIA included January (2009) and recorded one (1) sighting and an encounter rate of 0.6 sightings per 40km surveyed. The baseline survey was conducted between February-April 2018 and cannot be compared to this month's impact survey data. Effort varied considerably between years and the number of sightings per km ranged between 0.01 and 0.11 km<sup>-1</sup>. There is no trend in encounter rates recorded by the AFCD long term monitoring programme, i.e., the highest encounter rate was recorded in 2014 at 0.11 sightings km<sup>-1</sup>, with the lowest encounter rates of 0.01 sightings km<sup>-1</sup>, in 2011 (Table 3). The January 2023 encounter rate was 0.04 sightings per km (1.5 sightings per 40 km). For the first year (2019) of impact monitoring, six (6) on effort finless porpoise sightings were recorded, for the second year (2020) of impact monitoring, five (5) sightings were recorded, for the third year (2021), eight (8) on effort and two (2) opportunistic sightings were recorded and for the fourth year (2022), three (3) on effort sightings were recorded. For January 2023, the encounter rate of 0.04 sightings km<sup>-1</sup> (1.5 sightings 40 km<sup>-1</sup>) is more than double that recorded for the EIA but lower than the average rate recorded for AFCD monitoring prior to project 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 January previously recorded between 1 9 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. Whereas number of sightings in January 2023 is not unusual when compared to sightings recorded during AFCD long term monitoring studies, it is lower than the rates recorded during the first three construction years (2019-21: 2.4 - 4.0 sightings per 40km) and is the same as that recorded in January 2022. It is noted that there are low numbers of vessels in the area due to Covid-19 restrictions, however, marine construction works, for other projects, are ongoing in the area adjacent to this Project site and are therefore, likely impacting porpoise presence and behaviour. The fast ferry service between Hong Kong and Macau resumed this month, although the frequency of vessels is low compared to pre-restriction levels.

- 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 17<sup>th</sup> Monthly EM&A report (November 2019) while detailed PAM result was presented in 18<sup>th</sup> Monthly EM&A report (December 2019).
- For the baseline study, the Detection Positive Minutes (DPM) for each site was 6.4.2.2 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 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
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- 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\_html
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- Agriculture, Fisheries and Conservation Department (AFCD) 2012. Annual Marine Mammal Monitoring Programme April 2011-March 2012) 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>
- 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 5<sup>th</sup> March 2018 survey till the end of the Pre-construction monitoring on 15<sup>th</sup> May 2018. Construction Phase monitoring were carried out followed by the commencement of the Construction Phase on 28<sup>th</sup> 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

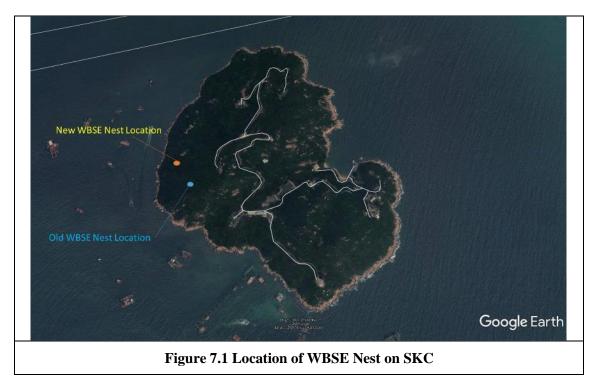
#### Table 7.1 List of Equipment Used during Construction Phase Monitoring

- 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)
5 January 2023	<ul><li>Northeast wind force 4 to 5</li><li>Sunny Day</li></ul>	18
12 January 2023	<ul><li>Northeast wind force 4 to 5</li><li>Sunny Day</li></ul>	21
19 January 2023	<ul><li>North wind force 4 to 5</li><li>Sunny Day</li></ul>	17
26 January 2023	<ul><li>East wind force 3 to 4</li><li>Sunny Day</li></ul>	18

- 7.5.2 During the monitoring survey on 05, 12, 19 and 26 January 2023, two adult WBSEs were recorded near the new nest and having incubation in the nest. No abnormal behaviors of the adults were recorded during the two monitoring events.
- 7.5.3 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.
- 7.5.4 All marine works during the monitoring period did not show any effect to the WBSE.
- 7.5.5 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.
- 7.5.6 There was no sign of using the construction site as a foraging ground.

7.5.7 As the adult was undergoing incubation period during the breeding season, weekly construction phase monitoring will be continued in February 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.





7.5.8 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.

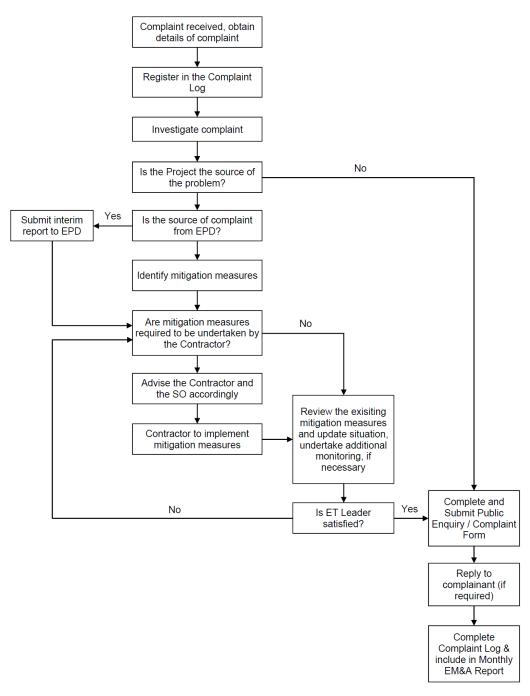


Figure 8.1 Environmental Complaint Handling Procedures

Date	<b>B</b> 1	B2	<b>B3</b>	<b>B</b> 4	CR1	CR2	F1A	H1	<b>S1</b>	S2A	<b>S</b> 3	M1
02-01-2023												
04-01-2023												
06-01-2023												
09-01-2023												
11-01-2023												
13-01-2023												
16-01-2023												
18-01-2023												
20-01-2023												
24-01-2023												
26-01-2023												
28-01-2023												
30-01-2023												
No. of SS Exceedances	2	1	2	1	1	2	0	2	0	0	0	3

## 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>B3</b>	<b>B4</b>	CR1	CR2	F1A	H1	<b>S1</b>	S2A	<b>S</b> 3	M1
02-01-2023												
04-01-2023												
06-01-2023												
09-01-2023												
11-01-2023												
13-01-2023												
16-01-2023												
18-01-2023												
20-01-2023												
24-01-2023												
26-01-2023												
28-01-2023												
30-01-2023												
No. of SS Exceedances	0	0	1	0	1	1	1	1	0	0	0	0

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

8.2 During the reporting period, nine (9) of general water quality monitoring results of SS obtained during the reporting period had exceeded the Action Level and ten (10) 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 No project-related Action Level or Limit Level exceedance of regular water quality monitoring was recorded from the 1 January 2023 to 31 January 2023 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.

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

8.5 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 03, 10, 17, 26 and 31 January 2023 at the site portions listed in **Table 9.1** below.

Date	Inspected Site Portion	Time
03 January 2023	Portion 1, 1A & 1B (near SKC)	10:30 AM – 11:20 AM
10 January 2023	Portion 1, 1A & 1B (near SKC)	10:30 AM - 11:20 AM
17 January 2023	Portion 1, 1A & 1B (near SKC)	10:30 AM – 11:30 AM
26 January 2023	Portion 1, 1A & 1B (near SKC)	10:30 AM – 11:20 AM
31 January 2023	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 17 January 2023.

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**.

Date	<b>Environmental Observations</b>	Follow-up Status
03 January 2023 (Site inspection)	<ol> <li>Observation(s) and Recommendation(s)</li> <li>Dust suppression measure should be well implemented to main haul road.</li> <li>Near site office, oil drums should be placed on drip tray.</li> </ol>	<ol> <li>Dust suppression measure had been well implemented to main haul road.</li> <li>Near site office, oil drums had been placed on drip tray.</li> </ol>
10 January 2023 (Site inspection)	Observation(s) and Recommendation(s) Nil	Nil
17 January 2023 (Site inspection)	<ol> <li><u>Observation(s) and Recommendation(s)</u></li> <li>Near vertical seawall, chemicals and oil drums should be placed on drip tray.</li> <li>At work area of 香港岩土, the faded NRMM label should be replaced.</li> </ol>	<ol> <li>Near vertical seawall, chemicals had been stored in designated place and oil drums had been placed on drip tray.</li> <li>At work area of 香港岩土, the faded NRMM label should be replaced.</li> </ol>
26 January 2023 (Site inspection)	Observation(s) and Recommendation(s)1. Wastewater should be treated before discharge and the requirement listed on water discharge license should be complied.	1. Wastewater had been treated before discharge and the requirement listed on water discharge license had been complied.

#### Table 9.2 Site Observations

Date	Environmental Observations	Follow-up Status
	2. General waste should be stored inside the enclosed rubbish bin, broken rubbish bin should be replaced.	2. General waste had been stored inside the enclosed rubbish bin, broken rubbish bin had been replaced.
	3. At work area of 華航, cement bags should be covered with impervious sheeting.	3. At work area of 華航, cement bags had been covered with impervious sheeting.
	Observation(s) and Recommendation(s)	
31 January 2023 (Site inspection)	<ol> <li>Oil stain was observed near piling machine PD15 at A9.</li> </ol>	4. Oil stain had been removed from A9 and the contaminated soil had been treated as chemical waste.

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 55<sup>th</sup> monthly Environmental Monitoring and Audit (EM&A) Report presents the EM&A works undertaken during the period from 1 January to 31 January 2023, 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 January to 31 January 2023.

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

ID	Activity Name	Original	Remaining	Activity %	Current Start	Current Finish	Late Start	Late Finish	Total Float M61 Remarks	Integrated Waste M	unugenner
		Original Duration	Duration	Complete						Dec 61	Jan 62
Programme for Design ar	d Construction Works WP6F-M61	3039	1174		22-Nov-17 A	18-Mar-26		10-Jul-26	114		
Key Dates		3039	1016		22-Nov-17 A	18-Mar-26	12-Dec-22		114		
Contractual Key Dates Design and Construction F		2844 2788	404 348		22-Nov-17 A 22-Nov-17 A	04-Sep-25 10-Jul-25	12-Dec-22 12-Dec-22		309 0		
Design and Construction F	Contract Award/Date of Acceptance of Tender	2788	<u>348</u> 0		22-Nov-17 A 22-Nov-17 A	10-Jul-25	12-Dec-22 12-Dec-22	10-Jul-25			
01-1010	Date of Commencement of the Design and the Works	0	0		15-Dec-17 A		25-Dec-22				
01-1015(3)(M12)	Original Substantial Completion of the Works	0	0	0%		27-Jul-24*		27-Jul-24	0		
01-1020	Extended Substantial Completion of The Works	0	0	0%		10-Jul-25*		10-Jul-25	0		
Extension of Time Granted 01-1015-1(3)(M12)	Extension of time granted (*Claim No.9 excluded)	348 348	348 348		27-Jul-24 27-Jul-24	10-Jul-25 10-Jul-25	27-Jul-24 27-Jul-24	10-Jul-25 10-Jul-25	0		
Operation Phase		56	548 56		27-Jul-24	04-Sep-25		10-Jul-26	309		
01-1030	Commencement of Operation	0	0		11-Jul-25		11-Jul-25		0		
<b>—</b> 01-1230	Issue Certificate of Completion of the Works (56 days after Substantial Completic	0	0	0%		04-Sep-25		10-Jul-26	309		
Planned Completion Da		900	900		30-Sep-23	18-Mar-26	30-Sep-23		-71		
01-1030(5a)	Grid Connection Agreement (GCA)	0	0	0%		31-Oct-23*		30-Oct-23	0		
01-1040 01-1050	Incoming Power Energization to IW MF Substation Export Power to Grid	0	0	0%		12-Jan-25 31-Oct-24*		10-Jul-25 31-Oct-24	180		
01-1060	Issuance of FS Certificate	0	0	0%		10-Jan-25		15-Jan-25	5		
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	0%	28-Mar-25		16-Jan-25		-71		
01-1090	Completion of C1.3.4.11 System Commission Test	0	0	0%		13-Apr-25		01-Feb-25	-71		
01-1100	Physical Completion of 90 Days Plant Commissioning Test Works	0	0	0%		29-Aug-25		19-Jun-25	-71		
01-1110(3)(M15)	Planned Substantial Completion of the Works	0	0	0%		19-Sep-25		10-Jul-25	-71		
01-1110-1(5a) Dates of Site Pocession	Completion of 180 Days for Installation, T&C of CCTV System and Onshore Powe	0 2765	0 765	0%	15-Dec-17 A	18-Mar-26*	25-Dec-22	06-Jan-26	-71		
01-1120	Possession of Portion 1	0	0	100%		15-Dec-17 A	23-060-22	25-Dec-22	0		
01-1130	Possession of Portion 1A	0	0	100%		15-Dec-17 A		25-Dec-22			
01-1140	Possession of Portion 1B	0	0	100%		15-Dec-17 A		25-Dec-22			
01-1150	Possession of Portion 2	0	0	0%	11-Jul-25		11-Jul-25		0		
01-1160	Possession of Portion 3	0	0	0%		06-Jun-23*		06-Jun-23	0		
	Possession of Portion 4	0	0	0%		06-Jun-23*		06-Jun-23 06-Jun-23	0		
01-1180 01-1190	Possession of Portion 5 Possession of Portion 6	0	0		20-Oct-24*	06-Jun-23*	16-Jan-25	06-Jun-23	88		
01-1200	Possession of Portion 7	0	0	100%	20-001-24	05-Jan-18 A	10-0411-25	10-Jul-25	00		
01-1210	Possession of Portion 7A	0	0	100%		07-Dec-18 A		10-Jul-25			
<b>01-1210(5a)</b>	Possession of Portion 8	0	0	100%	29-Apr-20 A		11-Jul-25				
01-1210-1(M55)	Possession of Portion 9	0	0	100%	10-Jun-22 A		11-Jul-25				
Contract Preliminarie	S	56	40		14-Jun-22 A	08-Feb-23	03-Dec-24	11-Jan-25	703		
🛓 Employer's Accommoda		56	40		14-Jun-22 A	08-Feb-23	03-Dec-24		703		
02-1020	Establishment of Employer's On Island Temporary Accommodation	56	40	28.57%	14-Jun-22 A	08-Feb-23		11-Jan-25	703		
Licence/Permit Applic		2120	885		07-Mar-19 A	02-Jun-25	31-Dec-22		38		
License/Permit for Cons	CNP for 24Hrs	2120 2120	885 885	E9 0E9/	07-Mar-19 A 07-Mar-19 A	02-Jun-25 02-Jun-25	31-Dec-22 07-Feb-23	10-Jul-25 10-Jul-25	38 38	i	
<pre>03-1360(2) 03-1370 1(M34)</pre>	Landscape and Visual Plan	180	173		24-Dec-22 A	21-Jun-23	07-Feb-23 31-Dec-22		0	24-Dec-22 A, 24-Dec-22 A	
DG Licence		210	210	0.00 %	30-Jan-23		29-Aug-23		373		
Day Tank & Fuel Oil Storag	e (Cat 5)	210	210		30-Jan-23			25-Mar-24	211		
<b>03-1400</b>	General Building Plans and FSI Provision Design Submission to FSD (Cat 5)	30	30	0%	30-Jan-23	28-Feb-23	0	27-Sep-23	211		3
<b>0</b> 3-1410	DGD and VD Review and Approval of Submission	180	180		01-Mar-23	27-Aug-23	28-Sep-23		211		
<u> Chemical Stores (all Cat)</u> 03-1480	Plans and FSI Provision Design Submission to FSD	201 21	201 21		30-Jan-23 30-Jan-23	18-Aug-23 19-Feb-23	16-Feb-24 16-Feb-24	03-Sep-24 07-Mar-24	382 382		3(
03-1480	DGD and VD Review and Approval of Submission	180	180		20-Feb-23	18-Aug-23		07-101a1-24 03-Sep-24	382		
Fire Services Installation		0	0		29-Jan-23	29-Jan-23	06-Mar-23		36		
Fire Services Installations	Certificate Inspection	0	0		29-Jan-23	29-Jan-23	06-Mar-23	06-Mar-23	36		
<b>03-1555-1(5a)</b>	Approval of General Building Plans and FSI Provision Design Submission	0	0	0%		29-Jan-23		06-Mar-23	36		
	pecified Processes) License	360	360		31-Dec-22	25-Dec-23	06-Jan-23	31-Dec-23	6		
03-1740(3)	Document preparation for SP License Application (upon consent of relevent DDA	60	60		31-Dec-22	28-Feb-23	06-Jan-23	06-Mar-23	6	31-Dec-22	
03-1750(3) Boilers and Pressure Ve	SP License Application Submissions and review by EPD	300 334	300 120	0%	01-Mar-23 29-Mar-22 A	25-Dec-23 29-Apr-23	07-Mar-23 15-Mar-23	31-Dec-23 25-Oct-23	6 179		
03-1860(3)	Employment of Registered Examiner	90	30	66.67%	31-May-22 A	29-Jan-23	28-Jun-23	27-Jul-23	179		
03-1870(3)	Prepare boiler fabrication inspection plan	60	30		31-May-22 A	29-Jan-23	28-Jun-23	27-Jul-23	179		
03-1880(3)	Submission of boiler fabrication inspection plan for License Application	90	90		30-Jan-23	29-Apr-23	28-Jul-23	25-Oct-23	179		3
03-1000(3)	Completion of Boiler off-site fabrication	180	30	83.33%	29-Mar-22 A	13-Apr-23	16-Mar-23	14-Apr-23	1		
03-1890(3)	Completion of Boiler off-site inspection before delivery	60	60	0%	01-Mar-23	29-Apr-23	15-Mar-23	13-May-23	14		
03-1890(3) 03-1990(3) 03-1900(3) General Submissions	Completion of Boiler off-site inspection before delivery	60 1108	60 120	0%	01-Mar-23 31-May-22 A	29-Apr-23 29-Apr-23	15-Mar-23 29-Jan-23	13-May-23 11-Jul-23	14 73		

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

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Remaining Work Actual Work Critical Remaining Work

Actual Milestone ٠

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♦ Milestone

Critical Milestone

ct No Fac	o. EP/ cilities,	SP/66/1 Phase	2	環境保護署 Environmental Protection Department
		Feb		Mar
		63		64
		08-Feb-23,	Establishment	of Employer's On Island Temporary
lan-23			2	28-Feb-23, General Building Plans a
			01-Mar-23 🗖	
lan-23				Plans and FSI Provision Design Sub
		20-Feb-23		
<b>(</b>	Approval	of General Bui	Iding Plans and	d FSI Provision Design Submission
			2	28-Feb-23, Document preparation fo
			01-Mar-23 🗖	
	29-Jan-2	3, Employment	t of Registered	Examiner, Employment of Registere
lan 22	29-Jan-23	3, Prepare boil	er tabrication ir	nspection plan, Prepare boiler fabric
lan-23				
			01-Mar-23 🗖	

KEPPEL SEGRERS - 2010 NUATOR	Activity Name	Original Duration	Remaining Duration	Activity % Current Start Complete	Current Finish	Late Start	Late Finish	Total Float M61 Remarks	2022 Dec	ste Management
							44.1.1.00		61	62
<pre>04-1450(1) 04-1500(1)</pre>	Asset Management Plan (AMP) Handback Plan (HP)	120	120 120	0% 31-Dec-22 0% 31-Dec-22	29-Apr-23 29-Apr-23	14-Mar-23 14-Mar-23	11-Jul-23 11-Jul-23	73	31-Dec-22 31-Dec-22	
BEAM Plus Assessment		1108	30	31-May-22 A	29-Apr-23		27-Feb-23	29	51-Dec-22	
<b>04-1500-1(1)</b>	Provisional Ass es sm ent	1108	30	97.29% 31-May-22 A	29-Jan-23*	29-Jan-23	27-Feb-23	29		
Design Submissions	S	1982	487	11-Jul-18 A	30-Apr-24	23-Oct-22	10-Feb-25	286		
General Building Plan		578	60	03-Mar-21 A	28-Feb-23	05-Feb-23	26-Apr-24	423		
04-1600(M42)	Process Building & Wastewater Treatment Plant	135	30	77.78% 03-Jun-21 A	29-Jan-23	05-Feb-23	06-Mar-23	36		
04-1610(M42)	Turbin Hall Building	135	30	77.78% 03-Mar-21 A	29-Jan-23	05-Feb-23	06-Mar-23	36		
04-1620(M42)	Compressor & CCCW Building	135	30	77.78% 03-Mar-21 A	29-Jan-23	05-Feb-23	06-Mar-23	36		
04-1630(M42)	Chimney	135	30	77.78% 03-Mar-21 A	29-Jan-23	05-Feb-23	06-Mar-23	36		<b>A</b>
04-1640(M42)	Mechanical Treatment Plant & Water Treatment Plant	135	30	77.78% 03-Jun-21 A	29-Jan-23	05-Feb-23	06-Mar-23	36		
04-1650(M42)	Reception Pavilion	135	30	77.78% 03-Jun-21 A	29-Jan-23	05-Feb-23	06-Mar-23	36		
04-1660(M42) 04-1670(M42)	Administration Building and Viewing Gallery Elevated Drive Way and Associated Structures	135 135	30 30	77.78% 03-Jun-21 A 77.78% 03-Mar-21 A	29-Jan-23 29-Jan-23	05-Feb-23 05-Feb-23	06-Mar-23 06-Mar-23	36		
04-1680(M42)	IW MF Substation	135	30	77.78% 03-Mar-21 A	29-Jan-23	05-Feb-23	06-Mar-23	36		·
04-1690(M46)	ACC Equipment Structure	30	30	0% 31-Dec-22	29-Jan-23	05-Feb-23	06-Mar-23	36	31-Dec-22	
<b>0</b> 4-1700	Ves sel Offloading Point	60	60	0% 31-Dec-22	28-Feb-23	08-Feb-24	07-Apr-24	404	31-Dec-22	· · ·
04-1710	Vehicle Fuel Filling Station	60	60	0% 31-Dec-22	28-Feb-23	27-Feb-24	26-Apr-24	423	31-Dec-22	-
04-1720	Fuel Filling Kiosk	60	60	0% 31-Dec-22	28-Feb-23	27-Feb-24	26-Apr-24	423	31-Dec-22	
<b>04-1730</b>	Weighbridge	135	22	5% 22-Apr-22 A	21-Jan-23	06-Jun-23	27-Jun-23	157		2
<b>0</b> 4-1740	Seawater Intake Structure	60	60	0% 31-Dec-22	28-Feb-23	15-May-23	13-Jul-23	135	31-Dec-22	
💾 AIP Design Package Si	ubmissions	1696	208	11-Jul-18 A	26-Jul-23	08-Dec-22	10-Feb-25	565		
	Reclamation, Sea wall, Break water, Berth (2.2)	669	90	31-May-21 A	30-Mar-23		10-Feb-25	683		
05-2960-1(M37)	Mooring Dolphins	90	90	0% 31-Dec-22	30-Mar-23	13-Nov-24	10-Feb-25	683	31-Dec-22	
05-2970	Onshore crane Facility (2.2.11)	90	3	5% 11-Apr-22 A	02-Jan-23	08-Dec-22	10-Dec-22	-23		Onshore crane Facility (2
05-2980     AlP Incineration Plant Bu	Onshore vessel power supply system (2.2.12)	135 1548	60 60	80% 31-May-21 A 04-Dec-18 A	28-Feb-23 28-Feb-23	21-Aug-23	19-Oct-23 21-Aug-24	233 540		
	indings (2.3) Is and Fire Saftey Strategy (2.3.00)	548	60 30	31-Jul-21 A	28-Feb-23 29-Jan-23	04-Feb-23		175		
05-1210	Process Building & Wastewater Treatment Plant (2.3.00.01 & 2.5.00.01)	105	0	65% 31-Aug-21 A	31-Dec-22	04-Feb-23	04-Feb-23	36		31-Dec-22, Process Buildir
05-1220	ACC Equipment Structure	30	30	0% 31-Dec-22	29-Jan-23	24-Jun-23	23-Jul-23	175	31-Dec-22	- d
05-3020	Site Master Layout Plan and Plant Layout (2.1.06)	105	0	65% 31-Jul-21 A	31-Dec-22	04-Feb-23	04-Feb-23	36		31-Dec-22, Site Master Lay
Foundation design (2.3.	.01)	135	30	30-Oct-20 A	29-Jan-23		06-Mar-23	36		
05-3090	Reception Pavilion	135	30	100% 30-Oct-20 A	29-Jan-23	05-Feb-23	06-Mar-23	36		<b>.</b>
Structural design (2.3.02 05-3090-1(M55)	2) Sky Deck	135 135	60 60	01-Jun-21 A 55.56% 01-Jun-21 A	28-Feb-23 28-Feb-23	12-Feb-24 12-Feb-24		408 408		
Operation Management		121	60	14-Feb-22 A	28-Feb-23	12-Feb-24 15-Jan-23		353		
05-2250	Design of the Air Quality Monitoring Stations (2.9.01)	60	60	5% 01-Jun-22 A	28-Feb-23	15-Jan-23	15-Mar-23	15		
05-3840-1(M22)	Automatic Traffic Control System (ATCS) (2.10.06.12)	90	14	5% 14-Feb-22 A	13-Jan-23	03-Feb-24	16-Feb-24	399		13-Jan-23
📕 Building services desigi	n (excluding fire services installation design) (2.3.06)	1548	60	04-Dec-18 A	28-Feb-23	06-May-23	21-Aug-24	540		
05-1550	Electrical Services and Lighting	150	30	25% 02-Jan-19A	29-Jan-23	06-May-23	04-Jun-23	126		
05-1560	MVAC (6 Packages)	105	60	25% 02-Jan-19A	28-Feb-23	06-Jun-23	04-Aug-23	157		
<b>05-1570</b>	Odour Control	135	60	25% 04-Dec-18 A	28-Feb-23	06-Jun-23	04-Aug-23	157		<u> </u>
05-1580	Plumbing (7 Packages)	210	60	25% 31-Jan-19A	28-Feb-23	13-Jan-24	12-Mar-24	378		
05-1590	Drainage (7 Packages)	135	60	25% 31-Jan-19A	28-Feb-23	13-Jan-24	12-Mar-24	378		
05-1600	ELV (7 Packages)	135	30	25% 28-Feb-19 A	29-Jan-23	06-May-23	04-Jun-23	126	04 D 00	· · ·
05-1770 05-1770-1(M20)	Vehicle & Container Wash System Water Cannon System	60 135	60 30	0% 31-Dec-22	28-Feb-23 29-Jan-23	24-Jul-23 23-Jul-24	21-Sep-23 21-Aug-24	205 570	31-Dec-22	
AIP Fire services installat		270	30	45% 31-Aug-19 A 31-Oct-19 A	29-Jan-23	23-Jui-24 24-Jun-23	-	175		
Reception Pavilion (2.3.		270	30	31-Oct-19 A	29-Jan-23	24-Jun-23		175		
05-5460(M22)	Fire Systems (2.3.05.06.01)	270	30	80% 31-Oct-19 A	29-Jan-23	24-Jun-23		175		
05-5470-1(M22)	FS schematics (2.3.05.06.03)	135	30	80% 31-Oct-19 A	29-Jan-23	24-Jun-23	23-Jul-23	175		
AIP Mechanical Treatmen	nt Plant Building (2.4)	212	60	11-Jul-18 A	28-Feb-23	05-Apr-23	12-Mar-24	378		
05-1670	Electrical and instrumentation works design (2.4.03)	30	30	0% 15-Jan-23*	13-Feb-23	15-Jul-23	13-Aug-23	181		15-Jan-23*
05-1680	Mechanical works design (2.4.04)	30	30	0% 15-Jan-23*	13-Feb-23	26-Jun-23		162		15-Jan-23*
	n (excluding fire services installation design) (2.4.06)	212 135	60	11-Jul-18 A	28-Feb-23	05-Apr-23		378 378		
05-1700 05-1720	LV and Emergency Power Distribution Design Odour Control	90	60 30	5% 18-Jan-22 A 80% 11-Jul-18 A	28-Feb-23 29-Jan-23	13-Jan-24 05-Apr-23	12-Mar-24 04-May-23	95		· ·
05-1720	Drainage	90	10	70% 10-Jan-21 A	09-Jan-23	13-Jun-23		164		09-Jan-23, Dra
AIP Wastewater Treatmen	5	1170	60	31-Jan-19 A	28-Feb-23	09-Apr-23		329		05-0a1-23, Dia
	n (excluding fire services installation design) (2.5.06)	1170	60	31-Jan-19A	28-Feb-23	09-Apr-23		329		1 <sup></sup>
05-1830	LV and Emergency Power Distribution Design (2.5.06.01)	135	60	25% 31-Jan-19A	28-Feb-23	25-Nov-23	23-Jan-24	329		
05-1840	MVAC (2.5.06.02)	135	60	25% 31-Jan-19A	28-Feb-23	24-Apr-23	22-Jun-23	114		
05-1850	Odour Control (2.5.06.03)	105	60	5% 31-Dec-21 A	28-Feb-23	30-Apr-23	28-Jun-23	120		
<b>05-1860</b>	Plumbing (2.5.06.04)	135	60	25% 31-Jan-19A	28-Feb-23	24-Apr-23	22-Jun-23	114		
	Drainage (2.5.06.05)	135	60	25% 31-Jan-19A	28-Feb-23	09-Apr-23	07-Jun-23	99		<b>A</b> ,
<b>05-1870</b>										• • • • • • • • • • • • • • • • • • • •
<ul> <li>05-1870</li> <li>05-1880</li> </ul>	ELV (2.5.06.06)	135	60 60	25% 01-Feb-19 A 30-Apr-19 A	28-Feb-23 28-Feb-23	29-May-23		149 114		

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

Remaining Work Actual Work

Actual Milestone

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Critical Remaining Work

♦ ♦ Critical Milestone

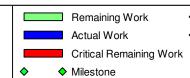
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Milestone

		SP/66 Phas		Ĩ	環境保 Environme	道著 ntsl Protection	Department
		2023 Feb 63				Mar 64	
	29-Jan-2	3*, Provisio	nal Asse	s sm en t	Provisional	Assessment,	29-Jan-23'
21-Jan-2	29-Jan-2 29-Jan-2 29-Jan-2 29-Jan-2 29-Jan-2 29-Jan-2 29-Jan-2 29-Jan-2 29-Jan-2	3, Turbin Ha 3, Compres 3, Chimney 3, Mechanic 3, Receptio 3, Adm inist 3, Elevated	all Buildin sor & CC , Chimney cal Treatm n Pavilior ration Bu Drive Wa ubstation, ipment S	ig, Turb CCW Bu y, 29-Ja n ent Pla n, Rece ilding a ay and A IWMF Structure	n Hall Buildin n Hall Buildin n-23 ant & Water T otion Pavilion nd Viewing C ssociated St Substation, 2 28-Feb-23, 28-Feb-23, 28-Feb-23,	allery, Admini ructures, Elev	W Buildin It, Mechani stration Bu ated Drive
						Seawater Intak	e Structur
2.2.11), (	12-Jan-23,	02-Jan-23,	Onshore	crane F	acility (2.2.11 28-Feb-23, (		el power su
ng & Wa		eatment PI 3, ACC Equ				ocess Buildin	g & Waste
out Plan	and Plant	Layout (2.1	.06), Site	Master	Layout Plan :	and Plant Layc	ut (2.1.06)
	29-Jan-2	3, Receptio	n Pavilior	n, Rece	otion Pavilion	ı, 29-Jan-23	
					28-Feb-23, 3	Sky Deck, Sky	Deck, 28-
Automa	tic Traffic	Control Sys	tem (ATC	CS) (2.1		Design of the A omatic Traffic	
	29-Jan-2	3, Electrica	l Service		28-Feb-23, 1 28-Feb-23, 0 28-Feb-23, 1	rical Services MVAC (6 Pack Odour Control, Plumbing (7 P Drainage (7 Pa	ages), MV Odour Co ackages),
						29-Jan-23 Vehicle & Con System, 29-J	
	20 04112						
		3, FS scher	matics (2	.3.05.06	.03), FS sch	ems (2.3.05.06 ematics (2.3.0 umentation wo	5.06.03), 2
					nical works o	design (2.4.04) LV and Emerg	
nage, Dr	29-Jan-2 ainage, 09		ontrol, Od	our Cor	trol, 29-Jan-2		
					28-Feb-23, 28-Feb-23, 28-Feb-23, 28-Feb-23,	LV and Emerg MVAC (2.5.06. Odour Control Plumbing (2.5 Drainage (2.5. ELV (2.5.06.06	02), MVA( (2.5.06.03) 06.04), Pl 06.05), Dra

	Activity Name	Original	Remaining	Activity % Current Start	Current Finish	Late Start	Late Finish	Total Float M61 Remarks	2022	
		Duration	Duration	Complete					Dec 61	Jan 62
Building services desig 05-1960	gn (excluding fire services installation design) (2.6.06) Electrical Services and Lighting (2.6.06.01)	135 135	60 60	30-Apr-19 A 25% 30-Apr-19 A	28-Feb-23 28-Feb-23	19-Mar-23 19-Mar-23	22-Jun-23 17-May-23	<u>114</u> 78		
05-2000	Drainage	135	10	70% 20-Mar-22 A	09-Jan-23		22-Jun-23	164		09-Jan-23, Dra
_AIP Administration Buil		1247	90	31-Oct-19 A	30-Mar-23		16-Jul-23	108		
05-2050	Electrical and instrumentation works design (2.7.03)	90	90	0% 31-Dec-22	30-Mar-23	18-Apr-23		108	31-Dec-22	
Uliding services desig	gn (excluding fire services installation design) (2.7.05) MVAC	135 135	60 60	31-Oct-19 A 65% 31-Oct-19 A	28-Feb-23 28-Feb-23		22-Mar-23 22-Mar-23	22		
_AIP IWMF Substation (2	2.8)	180	30	31-Oct-19 A	29-Jan-23		05-Sep-23	219		
05-2170	Electrical and instrumentation works design (2.8.03) (14 Packages)	180	30	45% 31-Oct-19 A	29-Jan-23	-	05-Sep-23	219		
AIP Chimney 05-7390	Fire services installation design	486 60	60 60	20-Sep-21 A 0% 31-Dec-22	28-Feb-23 28-Feb-23		07-Apr-24 07-Apr-24	404 404	31-Dec-22	
	gn (excluding fire services installation design)	151	60	20-Sep-21 A	28-Feb-23		07-Feb-24	344		
05-5430(5a)	Electrical Services and Lighting	90	60	5% 20-Sep-21 A	28-Feb-23	10-Dec-23	07-Feb-24	344		
05-5440(5a)	MVAC Dumbing	90	30	5% 20-Sep-21 A	29-Jan-23	21-Sep-23	20-Oct-23	264		
<pre>05-5450(5a) 05-5460-1(5a)</pre>	Plumbing Drainage	90 90	60 60	5% 20-Sep-21 A 5% 20-Sep-21 A	28-Feb-23 28-Feb-23	03-Dec-23 03-Dec-23	31-Jan-24 31-Jan-24	337 337		
05-5470(5a)	ELV	90	60	5% 20-Sep-21 A	28-Feb-23	10-Dec-23	07-Feb-24	344		
05-5490(5a)	Building Management System (BMS)	90	60	5% 27-Oct-21 A	28-Feb-23	17-Jul-23	14-Sep-23	198		
	and Associated Structures Foundation	105	60	31-Dec-21 A			17-Apr-23	48		
Building services desig 05-7090	gn (excluding fire services installation design) Electrical Services and Lighting	105 105	60 60	31-Dec-21 A 5% 31-Dec-21 A	28-Feb-23 28-Feb-23	17-Feb-23 17-Feb-23		48 48		
AIP Roads and Utilities		851	60 60	31-Oct-20 A	28-Feb-23	03-Jan-23		248		
	esign on the Artificial Island (2.10.04)	851	60	31-Oct-20 A	28-Feb-23	09-Jan-23	22-Jul-23	144		
05-2360	Water Tanks (2.10.04.05)	60	60	0% 31-Dec-22	28-Feb-23	09-Jan-23	09-Mar-23	9	31-Dec-22	
05-2370-2(M24)	Building Services system for seawater intake (2.10.04.09)	105	60	5% 31-Oct-20 A	28-Feb-23	24-May-23	22-Jul-23	144		
05-2370-3(5a)	Chemical scrubber system for odour control (2.10.04.10) ication and other utilities (2.10.06)	105 590	60 6	5% 31-Oct-21 A 31-Jan-21 A	28-Feb-23 05-Jan-23	24-May-23 03-Jan-23	22-Jul-23 03-Nov-23	144 302		
05-2380	Power Distribution System concept / schematics (2.10.06.01)	135	1	5% 31-Jan-21 A	31-Dec-22	03-Nov-23	03-Nov-23	307		31-Dec-22, Power Distrik
05-2430	Site ELV Network System - Navigation aids concept / schematics (2.10.06.06)	105	6	80% 31-May-22 A	05-Jan-23	03-Jan-23	08-Jan-23	3		05-Jan-23, Site EL
Utility ducts/Pipebridg		455	60	01-May-21 A	28-Feb-23	23-Jul-23	20-Sep-23	204		
05-2460	Design of Pipe / Utilities Trenches concept (2.10.06.09.01)	105	60	5% 01-May-21 A	28-Feb-23 28-Feb-23	23-Jul-23	20-Sep-23	204		
05-2470 Layout Plan for Pipe I	Sitewide Utilities Trenches Design (2.10.06.09.02)	105 60	60 30	5% 01-May-21 A 31-May-22 A	28-Feb-23 29-Jan-23	23-Jul-23 29-Jul-23	20-Sep-23 27-Aug-23	204		
05-6010	Pipebridge B	60	30	50% 31-May-22 A	29-Jan-23	29-Jul-23	27-Aug-23	210		
<b>05-6020</b>	Pipebridge C	60	30	50% 31-May-22 A	29-Jan-23	29-Jul-23	27-Aug-23	210		
	nes and Landscaping Works (2.11)	912	90	08-May-20 A			30-Jun-24	458		
External and internal fi 05-2570	nishes design External and internal finishes design for MT Plant Building (2.11.02)	439 105	10 10	31-Oct-20 A 45% 31-Oct-20 A	09-Jan-23 09-Jan-23	27-Apr-23 12-Jul-23	21-Jul-23 21-Jul-23	193 193		09-Jan-23, Ex
05-2590	External and internal finishes design for the Water Treatment Plant Building (2.11.	105	10	25% 30-Sep-21 A	09-Jan-23	12-Jul-23	21-Jul-23	193		09-Jan-23, Ex
05-2600	External and internal finishes design for the Administration Building (2.11.05)	105	10	45% 31-Oct-20 A	09-Jan-23	27-Apr-23	06-May-23	117		09-Jan-23, Ex
Landscaping Works (2.		180	30	08-May-20 A	29-Jan-23	07-Feb-23	08-Mar-23	38		
05-2620	Landscape Masterplan & Landscape Design for Water Feature (211.07.01)	105	30	45% 19-Jun-20 A	29-Jan-23	07-Feb-23	08-Mar-23	38		
05-2920_3(M34) 05-2920_4(M34)	Landscape Architectural Design for MT Plant Building and Water Treatment Plant Landscape Architectural Design for Administration Building (2.11.07.08)	105 105	30 30	5% 16-Jun-22 A 5% 08-May-20 A	29-Jan-23 29-Jan-23	07-Feb-23 07-Feb-23	08-Mar-23 08-Mar-23	38 38		
Facade Structural Desi		455	90	26-Aug-21 A	30-Mar-23		30-Jun-24	458		
05-8040-1(6D)	Reception Pavilion (2.3.14.07.01)	90	60	5% 05-Oct-21 A	28-Feb-23			353		
05-8050-1(6D)	Mechanical Treatment Plant & Desalination Plant Building (2.4.14.01)	90	60	5% 08-Mar-22 A	28-Feb-23	19-Nov-23	17-Jan-24	323		
05-8060-1(6D)	Adminstration Building and Viewing Gallery (2.7.12.01)	90	60	5% 07-Dec-21 A	28-Feb-23	19-Nov-23	17-Jan-24	323		
05-8080-1(6D)	Elevated Driveway and Associated Structures	91 90	30 90	5% 26-Aug-21 A 0% 31-Dec-22	29-Jan-23 30-Mar-23	-	21-Sep-23 30-Jun-24	235 458	31-Dec-22	
05-8090-1(6D) AIP Testing and Commission AIP Testing and Commission	Sky Deck near Administration Building Structural Design	90 1445	90 165	0% 31-Dec-22	30-Mar-23		30-Jun-24 29-Jan-24	458 230	31-Dec-22	
05-2650-1(5)	Factory Acceptance Testing plan (2.12.01.02-07) (8 Packages)	105	60	5% 23-Apr-19A	28-Feb-23		16-Oct-23	230		
05-2660	Site Acceptance Testing plan (2.12.02)	105	105	0% 01-Mar-23	13-Jun-23	17-Oct-23	29-Jan-24	230		
AIP Miscellaneous Work		896	105	31-Oct-20 A	14-Apr-23		08-Jun-23	55		
05-2710	Design of process related CCTV and existing onshore crane replacement works a Design of visitors and environmental education facilities (2.14.02)	105 105	105 60	0% 31-Dec-22 5% 31-Oct-20 A	14-Apr-23 28-Feb-23	10-Jan-23 10-Apr-23	24-Apr-23 08-Jun-23	10 100	31-Dec-22	
AIP Miscellaneous Detai		212	90	25-May-22 A	28-Feb-23 30-Mar-23		13-Oct-24	563		
05-2730	Covered walkway at passenger berth (2.15.02)	90	90	0% 31-Dec-22	30-Mar-23	16-Jul-24	13-Oct-24	563	31-Dec-22	
05-2740	Gatehouses (2.15.03)	90	90	5% 25-May-22 A	30-Mar-23	06-Jul-23	03-Oct-23	187		
05-2750	W eighbridge office (2.15.04)	90	30	5% 25-May-22 A	29-Jan-23		27-Jun-23	149		
AIP Auxiliary Plant Syst 05-2760	ems (2.16) Maintenance workshops (2.16.01)	90 90	90 90	31-Dec-22 0% 31-Dec-22	30-Mar-23 30-Mar-23	31-Jan-23 19-Feb-23	01-Oct-23 19-May-23	185 50	31-Dec-22	
05-2770	Vehicle Fuel Filling Station (2.16.02)	90	90	0% 31-Dec-22	30-Mar-23	31-Jan-23	30-Apr-23	31	31-Dec-22 31-Dec-22	
05-2780	Stores systems (2.16.03)	90	90	0% 31-Dec-22	30-Mar-23	04-Jul-23	01-Oct-23	185	31-Dec-22	
AIP O&M Packages		392	208	06-Jun-22 A	26-Jul-23	21-Oct-23	09-Jul-24	349		
05-8010(6E)	W are house (O&M Scope)	185	42	5% 04-Jul-22 A	10-Feb-23	23-Oct-23	03-Dec-23	296		
05-8020(6E)	Workshop (O&M Scope)	179	179	0% 29-Jan-23*	26-Jul-23	21-Oct-23	16-Apr-24	265		29-Ja
05-8030(6E)	Ash & Residues Container (O&M Scope)	160	38	5% 06-Jun-22 A	06-Feb-23	25-Mar-24	01-May-24	450		





Critical Milestone

Faci	ilities, Phase 1	環境保護署 Environmental Protaction Department Mar
	63	64
		28-Feb-23, Electrical Services and I
nage, Dra	ainage, 09-Jan-23	
		28-Feb-23, MVAC, MVAC, 28-Feb-2
	29-Jan-23, Electrical and inst	rumentation works design (2.8.03) (14 Packa
		28-Feb-23, Fire services installation
	29-Jan-23, MVAC, MVAC, 29-	28-Feb-23, Electrical Services and Jan-23
		28-Feb-23, Plumbing, Plumbing, 28
		28-Feb-23, Drainage, Drainage, 28-F 28-Feb-23, ELV, ELV, 28-Feb-23
		28-Feb-23, Building Management Sy
		28-Feb-23, Electrical Services and I
		28-Feb-23, Water Tanks (2.10.04.05) 28-Feb-23, Building Services system
		28-Feb-23, Chemical scrubber system 28-Feb-23, Chemical scrubber system
ion Svete	em concept / schematics (2 10	.06.01), Power Distribution System concept
		ept / schematics (2.10.06.06), Site ELV Netw
		28-Feb-23, Design of Pipe / Utilities
		28-Feb-23, Sitewide Utilities Trench
	29-Jan-23, Pipebridge B, Pipe	
	29-Jan-23, Pipebridge C, Pipe	ebridge C, 29-Jan-23
		Plant Building (2.11.02), External and interna Water Treatment Plant Building (2.11.04), Ex
rnal and i	internal finishes design for the	Administration Building (2.11.05), External a
	29-Jan-23, Landscape Master	plan & Landscape Design for Water Feature
		ectural Design for MT Plant Building and Wat
	29-Jan-23, Landscape Archite	ectural Design for Administration Building (2.
		28-Feb-23, Reception Pavilion (2.3.1
		28-Feb-23, Mechanical Treatment Pl 28-Feb-23, Adminstration Building a
	29-Jan-23, Elevated Driveway	and Associated Structures, Elevated Drivew
		28-Feb-23, Factory Acceptance Test
	01-Ma	ar-23
		28-Feb-23, Design of visitors and en
	29-Jan-23, Weighbridge office	e (2.15.04), Weighbridge office (2.15.04), 29-
- 00* <b>-</b>	10-Feb-23, Wa	arehouse (O&M Sc ope), Warehouse (O&M S
-23*	06-Feb-23, Ash & F	Residues Container (O&M Scope), Ash & Res

	Activity Name	Original Duration	Remaining Duration	Activity % Complete	6 Current Start e	Current Finish	Late Start	Late Finish	Total Float M61 Remarks	2022 Dec	aste Managemer
05-8040(6E)	Bicar Debagging Station (O&M Scope)	105	140	5%	5 17-Nov-22 A	19-May-23	21-Feb-24	09-Jul-24	417	61	62
05-8050(6E)	Other Mobile Plants (O&M Scope)	152	152		6 28-Jan-23*	28-Jun-23	20-Dec-23	19-May-24	326		28-Ja
DDA Design Package Su	ubmissions	1982	487		05-Sep-18 A	30-Apr-24	23-Oct-22	27-Dec-24	241		
_DDA Processand Layout D		1078	227		22-Apr-20 A	14-Aug-23	18-Feb-23		432		
MSW treatment process de 05-5090	esign for incineration (2.1.13) Incineration System (2.1.13.01) (2 Packages)	1078 105	227 45	5%	22-Apr-20 A	14-Aug-23 13-Feb-23	14-May-23 14-May-23	19-Oct-24	<u>432</u> 134		
05-5100	Heat Recovery Boiler (2.1.13.02) (2 Packages)	105	45		23-Apr-20 A	13-Feb-23	14-May-23	27-Jun-23	134		
05-5120	Leachate Collection and Treatment (2 1.13.05) (2 Packages)	256	227		30-Jun-22 A	14-Aug-23	07-Mar-24	19-Oct-24	432		
05-5140	Overall Plan Water Scheme (2.1.13.07)	105	91	5%	6 29-Jan-21 A	31-Mar-23	21-Jul-24	19-Oct-24	568		
05-5150	Boiler Feed Water System (2.1.1.3.0.3) (2 Pack ages)	105	0	45%	6 23-Apr-20 A	31-Dec-22	16-Aug-23	16-Aug-23	229		31-Dec-22, Boiler Feed
MSW treatment process de 05-3500	esign for mechanical treatment (2.1.14) Mechanical Treatment Plant (2.1.14)	919 181	<u>220</u> 181	0%	02-Oct-20 A 08-Feb-23*	07-Aug-23 07-Aug-23	24-Mar-23 22-Apr-24	19-Oct-24 19-Oct-24	<u>439</u> 439		
05-3510	Water Treatment Plant and Boiler Water Treatment (Demin Unit) Plant	105	60		6 02-Oct-20 A	28-Feb-23	22-Apr-24 24-Mar-23		83		
	Power generation system (2.1.15)	105	60		30-Sep-21 A	28-Feb-23	02-Nov-23		306		
05-5240	Compressed Air Plants	105	60	25%	5 30-Sep-21 A	28-Feb-23	02-Nov-23	31-Dec-23	306		
	ss design for incineration (2.1.16)	105	90		23-Apr-20 A	30-Mar-23		18-May-23	49		
05-4660 05-4980	Flue Gas Treatment System (2 Packages) Boiler ash and APC residue handling and solidification (2 Packages)	105 105	90 25		23-Apr-20 A 30-Sep-20 A	30-Mar-23 24-Jan-23	18-Feb-23 24-Apr-23	18-May-23 18-May-23	49 114		
	ign for MSW and Ash and Residues (21.17)	105	25 75	80%	25-Aug-21 A	24-Jan-23	24-Apr-23 05-Jun-23	-	232		
05-4390	Weighbridge Systems	105	60	5%	25-Aug-21 A	28-Feb-23	04-Sep-23		247		······································
05-4410	Mechanical Shredder	105	75	5%	5 25-Sep-21 A	15-Mar-23	05-Jun-23	18-Aug-23	156		
	eclamation, Seawall, Breakwater, Berth (2.2)	1591	150		20-Jan-19 A	29-May-23	18-Jan-23		279		
05-3430-2(M37)	Geotechnical Interpretative Report (2.2.02.02)	105	10		31-Dec-20 A	09-Jan-23	18-Jan-23	27-Jan-23	18		09-Jan-23,
05-3450	Seawall design (2.2.20) Berth design (2.2.22)	60 60	20 20		20-Jan-19A	19-Jan-23 19-Jan-23	13-Feb-24 01-Aug-23	03-Mar-24	409 214		
05-3480	Onshore crane Facility (2.2.23)	60	60		6 03-Jan-23	03-Mar-23	06-Sep-23	04-Nov-23	246	03-Ja	
05-3490	Onshore vessel power supply system (2.2.24)	90	90	0%	6 01-Mar-23	29-May-23	20-Oct-23	17-Jan-24	233		·····
DDA Incineration Plant Bui	ild ings (2.3)	1750	255		05-Sep-18 A	11-Sep-23	23-Oct-22	19-Nov-24	435		
Structural design (2.3.14)		90	90	00/	01-Mar-23	29-May-23	<u>'</u>		408		
05-3280-1(M55) Electrical and instrumenta	Sky Deck	90 1645	90 150	0%	01-Mar-23	29-May-23 29-May-23	12-Apr-24 23-Oct-22		408 353		
2.3.15.01	aton works design (2.3.1.3)	1045	62		05-Nov-21 A	02-May-23	27-Jul-23	26-Sep-23	208		
05-3360	11kV/380V Power Transformers Design (2.3.15.01)	105	62	80%	6 05-Nov-21 A	02-Mar-23	27-Jul-23	26-Sep-23	208		
E&IC Package 1 (Process		378	129		22-Sep-20 A	08-May-23	23-Oct-22	05-Jan-24	242		
05-3370	Electric Heat Tracing (Process Island) (2.3.15.02.10)	120	61		5 17-Feb-22 A	01-Mar-23	27-Jun-23	26-Aug-23	178		
05-3390-10(M55) 05-3390-11(M55)	Electrical Works - MCC Panels (2.3.15.02.01) Electrical Works - Process Island Uninterruptable Power Supply (UPS) (2.3.15.0	105 105	47 47		22-Sep-20 A	15-Feb-23 15-Feb-23	11-Jul-23 11-Aug-23	26-Aug-23 26-Sep-23	192 223		· · · · · · · · · · · · · · · · · · ·
05-3390-13(M55)	Electrical Works - Process Island Oninterruptable Power Supply (0F3) (2.3.15.0 Electrical Works E&I Installation at Yard (2.3.15.02.08)	105	47		6 07-May-22 A	15-Feb-23	23-Oct-22	28-3ep-23 08-Dec-22	-69		····
05-3390-6(M55)	Electrical Works Instrumentation (2.3.15.02.06)	105	63		5 15-Oct-21 A	03-Mar-23	04-Nov-23	05-Jan-24	308		
05-7400-1(M55)	Electrical works CEMS and Process Analysers (2.3.15.02.07)	105	129	5%	6 12-Jul-21 A	08-May-23	28-Jan-23	05-Jun-23	28		· · · · · · · · · · · · · · · · · · ·
E&IC Package 2 (Power Is		773	30		16-Sep-19 A	29-Jan-23	24-Mar-23	06-May-24	463		
05-3390-13(M55)10	Electrical Works Design (2.3.15.03.01 to 04)	105	30		23-Dec-20 A	29-Jan-23	24-Mar-23	22-Apr-23	83		
05-3390-4(M46)	Generator Related Equipment (2.3.15.03.08)	105	21		29-Jun-21 A	20-Jan-23	06-Sep-23	26-Sep-23	249		
05-3390-7(M55)	Instrumentation works design(2.3.15.03.05 & 2.3.15.03.06) <b>CADA &amp; PLC Control System (2.3.15.03.07)</b>	105 530	1 14	80%	10-Feb-21 A 16-Sep-19 A	31-Dec-22 13-Jan-23	28-Jun-23 09-Apr-23	28-Jun-23 06-May-24	179 479		
05-3390-1(M46)	Hardware Design (2.3.15.03.07.01)	105	0	65%	16-Sep-19 A		06-May-24	06-May-24	493		31-Dec-22, Hardware D
05-3390-2(M46)	Software Design (2.3.15.03.07.02)	105	14		30-Oct-21 A	13-Jan-23		22-Apr-23	99		13-Jan
Operation Management S		1645	150		05-Sep-18 A		13-Jan-23	16-May-24	353		i i
05-3390-6(M46)	OMS/SCADA/DCS - System Networks Details (2.3.15.04.02)	105	44		30-Oct-21 A	12-Feb-23	20-Jul-23	01-Sep-23	201		
<ul><li>05-3390-7(M46)</li><li>05-4490</li></ul>	Software Standard Component Design of the Air Quality Monitoring Stations (2.9.03)	105 90	60 90		6 09-Dec-20 A 6 01-Mar-23		08-Mar-24 16-Mar-23	06-May-24 13-Jun-23	433		
05-5400-1(M22)	Automatic Traffic Control System (ATCS)	90	90		6 14-Jan-23	29-May-23 13-Apr-23	17-Feb-24	16-May-24	399		14-Jan-23
05-7400(6E)	Automatic License Plate and Container Recoginition System (ALPCRS)	105	106		6 05-Sep-18 A	15-Apr-23	13-Jan-23	28-Apr-23	13		<mark>-</mark>
- 2.3.15.04.03		410	105		15-Dec-21 A	14-Apr-23	01-Sep-23	06-May-24	388		i i
2.3.15.04.03.01		105	0		15-Dec-21 A		01-Sep-23		245		
05-3390-8(M46)	OMS/SCADA/DCS - OLM Panel Design for Power Island (2.3.15.04.03.01.02)	105	0	80%	5 15-Dec-21 A		01-Sep-23		245		31-Dec-22, OMS/SCAD
<b>2.3.15.04.03.02</b> <b>05-3390-13(M58)</b>	OMS/SCADA/DCS - Panel Design for Power Island and Plant Commom (2.3.15.)	105 105	105 105	80%	02-Aug-22 A 02-Aug-22 A		23-Jan-24 23-Jan-24	06-May-24 06-May-24	388 388		
<b>2.3.15.04.03.03</b>		105	35	0076	19-Apr-22 A	03-Feb-23		06-May-24	458		
05-3390-14(M55)	OMS/SCADA/DCS - Server Panel Design (2.3.15.04.03.03)	105	35	80%	5 19-Apr-22 A	03-Feb-23	02-Apr-24		458		
- 2.3.15.04.06		105	32		06-Oct-21 A	31-Jan-23	02-Sep-23		245		
05-3390-9(6D)	Process Related 3rd Party System (2.3.15.04.06.01.01)	105	32		6 09-Dec-21 A		02-Sep-23		245		
05-3420(M58)	3rd Party System for Power Island & Communication Data Tables for Process Vo	105	30	80%	6 06-Oct-21 A	29-Jan-23	02-Sep-23		245		
2.3.15.05 05-3390-15(M55)	Balance of Plant LV Switchgear Design (2.3.15.05.01)	105 105	90 88	8U0/	15-Jul-21 A 07-May-22 A	30-Mar-23 28-Mar-23	30-Mar-23 01-Apr-23	30-Nov-23 27-Jun-23	245 91		·
05-3390-16(M55)	Package 3 (Balance of Plant) - Weighbridge Electrical & Instrumentation Package	105	90		6 07-101ay-22 A	30-Mar-23	30-Mar-23	27-Jun-23 27-Jun-23	89		
	age - () for signal age and a monation 1 abrag	100	00								
05-3390-17(M55)	Waste Crane Functional Description (2.3.15.05.08)	105	16	80%	5 15-Jul-21 A	15-Jan-23	09-Sep-23	24-Sep-23	252		15-0

Remaining Work Actual Work Critical Remaining Work

Actual Milestone  $\diamond$ ٠

Critical Milestone

♦ Milestone

	2023 Feb	Mar
	63	64
3*		
		3, Incineration System (2.1.13.01) (2 Packag 3, Heat Recovery Boiler (2.1.13.02) (2 Packa
er System (2.1.13.03) (2	Packages), I	Boiler Feed Water System (2.1.13.03) (2 Pao
08-Feb-23*		
00160-23		28-Feb-23, Water Treatment Plant
		28-Feb-23, Compressed Air Plants
24-Jan-23, Boiler ash a	and APC res	sidue handling and solidification (2 Packages
		28-Feb-23, Weighbridge Systems, 15-Mar-23, Mec
echnical Interpretative Re	port (2 2 02 )	02), Geotechnical Interpretative Report (2.2.0
		wall design (2.2.20), 19-Jan-23
Jan-23, Berth design (2.2	.22), Berth d	esign (2.2.22), 19-Jan-23 03-Mar-23, Onshore crane Faci
	01-M	lar-23
	01-M	lar-23
		02-Mar-23, 11kV/380V Power Tra
		01-Mar-23, Electric Heat Tracing
		-23, Electrical Works - MCC Panels (2.3.15. -23, Electrical Works - Process Island Unin
		cal Works E&I Installation at Yard (2.3.15.02
		03-Mar-23, Electrical Works In
		Design (2.3.15.03.01 to 04), Electrical Work nt (2.3.15.03.08), Generator Related Equipme
		3.06), Instrumentation works design(2.3.15.03
(2.3.15.03.07.01), Hardv	ware Design	(2.3.15.03.07.01), 31-Dec-22
Software Design (2.3.15.0	03.07.02), So	oftware Design (2.3.15.03.07.02), 13-Jan-23
	12-Feb-23,	, OMS/SCADA/DCS - System Networks Deta
	01-M	28-Feb-23, Software Standard Com
	01-10	
CS - OLM Panel Design fo	or Power Isla	and (2.3.15.04.03.01.02), OMS/SCADA/DCS
CS - OLM Panel Design fo	or Power Isla	and (2.3.15.04.03.01.02), OMS/SCADA/DCS
		and (2.3.15.04.03.01.02), OMS/SCADA/DCS DA/DCS - Server Panel Design (2.3.15.04.03
03-Feb-23	3, OMS/SCA	DA/DCS - Server Panel Design (2.3.15.04.03
03-Feb-23 31-Jan-23, Pr	3, OMS/SCA	·····
03-Feb-23 31-Jan-23, Pr	3, OMS/SCA	DA/DCS - Server Panel Design (2.3.15.04.03 ed 3rd Party System (2.3.15.04.06.01.01), Pr
03-Feb-23 03-Feb-23 31-Jan-23, Pr 29-Jan-23, 3rd F	3, OMS/SCA rocess Relat Party System	DA/DCS - Server Panel Design (2.3.15.04.03 ed 3rd Party System (2.3.15.04.06.01.01), Pr for Power Island & Communication Data Ta
03-Feb-23 31-Jan-23, Pr 29-Jan-23, 3rd F 3, W as te Crane Function	3, OMS/SCA rocess Relat Party System al Descriptic	DA/DCS - Server Panel Design (2.3.15.04.03 ed 3rd Party System (2.3.15.04.06.01.01), Pr for Power Island & Communication Data Tal
03-Feb-23 31-Jan-23, Pr 29-Jan-23, 3rd F 3, W as te Crane Function	3, OMS/SCA rocess Relat Party System al Descriptic	DA/DCS - Server Panel Design (2.3.15.04.03 ed 3rd Party System (2.3.15.04.06.01.01), Pr for Power Island & Communication Data Ta
03-Feb-23 31-Jan-23, Pr 29-Jan-23, 3rd F 3, Waste Crane Function	3, OMS/SCA rocess Relat Party System al Descriptic	DA/DCS - Server Panel Design (2.3.15.04.03 ed 3rd Party System (2.3.15.04.06.01.01), Pr for Power Island & Communication Data Tal

	Activity Name	Original Duration	Remaining Duration	Activity % Complete	Current Start	Current Finish	Late Start	Late Finish	Total Float M61 Remarks	2022 Dec	
05-3390-5(M55)	Electrical and Instrumentation Works - Ash Crane (2.3.15.05.05)	105	1	80%	30-Aug-21 A	31-Dec-22	23-Sep-23	23-Sep-23	266	61	-Dec-22, El
2.3.15.07		105	105	0070	27-Sep-21 A	14-Apr-23	23-Jan-24	· · ·	388		
05-3390-20(M55)	SCADA & PLC Control System - Software Design (2.3.15.07.02)	105	105	5%	27-Sep-21 A	14-Apr-23	23-Jan-24	06-May-24	388		
2.3.15.08		105	105		23-May-22 A	14-Apr-23	23-Jan-24	06-May-24	388		
05-3390-21(M55)	Operation Management System (2.3.15.08)	105	105		23-May-22 A	14-Apr-23	23-Jan-24	06-May-24	388		
Mechanical works design Plant and Equipment	(2.3.16)	1657 1657	255 255		28-Feb-19 A 28-Feb-19 A	11-Sep-23 11-Sep-23		30-Jan-24 30-Jan-24	141		
05-3390-4(M55)	Electrical and Instrumentation Works - Waste Crane and Grapple System (2.3.15	105	16	70%	07-Jan-20 A	15-Jan-23	09-Sep-23		252		
05-3580	W eighbridge Systems	105	62	5%	30-Mar-22 A	02-Mar-23	02-Sep-23	02-Nov-23	245		
05-3600	Mechanical Shredder	31	31		13-Feb-23	15-Mar-23	19-Jul-23	18-Aug-23	156		
05-3610	Incineration System (9 Packages)	105	117		28-Feb-19 A	26-Apr-23	22-Apr-23	16-Aug-23	112		
05-3620	Heat Recovery Boiler (8 Packages)	105	196		31-Jul-19 A	14-Jul-23	12-Jun-23	24-Dec-23	163		
05-3630 05-3650	Boiler Feed Water Systems (4 Packages) Leachate collection and treatment	105 180	10 180		30-Sep-19 A 16-Mar-23*	26-Apr-23	07-Aug-23 28-Jun-23	16-Aug-23 24-Dec-23	112		
05-3790	Flue Gas Treatment System (12 Pack ages)	105	180		31-Oct-19 A	11-Sep-23 14-Jul-23	20-Mar-23	01-Oct-23	79		
05-3800	Boiler ash and APC residue handling and solidification	105	0		09-Jun-20 A	29-Jun-23	16-Aug-23		49		
05-3830	Compressed Air Plants	105	16		31-Oct-20 A	15-Jan-23	15-Jan-24	30-Jan-24	380		
Process Pipeworks (Incl.	Ductworks) and Valves	562	196		29-Feb-20 A	14-Jul-23	14-Mar-23	02-Oct-23	80		
05-3840	Process island (furnace-boiler-FGC)	105	196	5%	29-Feb-20 A	14-Jul-23	14-Mar-23	· · ·	73		
05-4350	Pipe Rack C1, C2, C3, D1 & D2 (Prefab.3)	105	116		28-Feb-21 A	25-Apr-23	09-Jun-23	02-Oct-23	160		
05-4360	Compressed Air Plantarea	105	16		31-May-21 A	15-Jan-23	29-Mar-23	13-Apr-23	88		
05-4370	Pipebridge B (Between CCCW Area & Turbine Hall)	105	16		28-Feb-21 A	15-Jan-23	24-May-23		144		
05-4380 05-4950	Pipebridge C (Between Turbine Hall & ACC Equipment Yard) Turbine Hall	105 105	16 16		28-Feb-21 A 31-May-21 A	15-Jan-23 15-Jan-23	24-May-23 13-Jun-23	08-Jun-23 28-Jun-23	144		
05-4960	ACC Equipment Yard	105	16		31-May-21 A	15-Jan-23	05-May-23		125		
05-4970	CCCW Area	105	16		31-May-21 A	15-Jan-23	24-May-23		144		
	support (For eqipment, piping & duct, cable tray etc)	105	135		29-May-21 A	14-May-23	17-Apr-23	11-Sep-23	120		
05-3540	Pipe Rack C1, C2, C3, D1 & D2 (Prefab.3)	105	135	80%	29-May-21 A	14-May-23	17-Apr-23	29-Aug-23	107		
05-3560	Pipebridge B (Between CCCW Area & Turbine Hall)	105	16	5%	29-May-21 A	15-Jan-23	27-Apr-23	12-May-23	117		
05-3570	Pipebridge C (Between Turbine Hall & ACC Equipment Yard)	105	16	5%	10-Jun-21 A	15-Jan-23	27-Aug-23	11-Sep-23	239		
Equipment and piping in 05-4550	sulation Steam Turbine Generator (STG) and Pressure Reducing and Desuperheating Stat	135 105	90 16	E9/	31-Dec-21 A 30-Jan-22 A	30-Mar-23 15-Jan-23	18-Jun-23 09-Jan-24	30-Jan-24 24-Jan-24	306 374		
05-4560	Air cooled condenser	105	16		30-Jan-22 A 31-Dec-21 A	15-Jan-23	18-Jun-23	03-Jul-23	169		
05-4570	Closed Circuit Cooling Water System	105	60		31-Dec-21 A	30-Mar-23		30-Jan-24	306		
DDA Fire service sinstalla		60	60		31-Dec-22	28-Feb-23	_		175		
05-3660	Fire Systems	60	60	0%	31-Dec-22	28-Feb-23	24-Jun-23	22-Aug-23	175	31-Dec-22	
05-3680	FS schematics	60	60		31-Dec-22	28-Feb-23	24-Jun-23	-	175	31-Dec-22	
	(excluding fire services installation design) (2.3.18) Electrical Services and Lighting (7 Packages)	150	150 60		31-Dec-22	29-May-23		19-Nov-24	540		
05-3690 05-3700	MVAC	60 90	90		30-Jan-23 01-Mar-23	30-Mar-23 29-May-23		03-Aug-23 02-Nov-23	126		
05-3710	Odour Control	90	90		01-Mar-23	29-May-23		02-Nov-23	157		
05-3720	Plumbing (7 Packages)	90	90		01-Mar-23	29-May-23		10-Jun-24	378		
05-3730	Drainage (7 Packages)	90	90	0%	01-Mar-23	29-May-23	13-Mar-24	10-Jun-24	378		
05-3740	ELV (7 Packages)	60	60	0%	30-Jan-23	30-Mar-23	05-Jun-23	03-Aug-23	126		
05-3750	Lifts and Escalators	90	90	0%	31-Dec-22	30-Mar-23	14-Jan-23	13-Apr-23	14	31-Dec-22	
05-3770	Building Management System (BMS)	30	30	0%	31-Dec-22	29-Jan-23	14-Nov-23	13-Dec-23	318	31-Dec-22	
05-3780	Vehicle & Container Wash System	60	60		01-Mar-23	29-Apr-23	22-Sep-23		205		
05-3780-2(M20)	Water Cannon System	90	90		30-Jan-23	29-Apr-23	-		570		
General Layout Drawings 05-3290	and Fire Saftey Strategy (2.3.25) Process Building & Wastewater Treatment Plant	578 60	60 30		31-Jul-21 A 13-Jun-22 A	28-Feb-23 29-Jan-23	20-Feb-23 24-Jul-23	22-Aug-23 22-Aug-23	175 205		
05-3300	ACC Equipment Structure	30	30		30-Jan-23	28-Feb-23	24-Jul-23	22-Aug-23	175		
05-3310	Turbine Hall Building	105	30		29-Dec-21 A	29-Jan-23	20-Feb-23	21-Mar-23	51		
05-3320	Compressor & CCCW Building	105	30	25%	29-Dec-21 A	29-Jan-23	24-Jul-23	22-Aug-23	205		
05-3330	Chimney	30	30	0%	31-Dec-22	29-Jan-23	24-Jul-23	22-Aug-23	205	31-Dec-22	
05-3340	Elevated Drive Way and Associated Structures	105	30	25%	31-Jul-21 A	29-Jan-23	24-Jul-23	22-Aug-23	205		
05-3350	Reception Pavilion	30	30	0%	31-Dec-22	29-Jan-23	24-Jul-23	22-Aug-23	205	31-Dec-22	
05-3520	Site Master Layout Plan and Plant Layout	30	30		31-Dec-22	29-Jan-23	24-Jul-23	22-Aug-23	205	31-Dec-22	
05-4170	Administration Building and Viewing Gallery (2.7.21)	30	30		31-Dec-22	29-Jan-23	24-Jul-23	22-Aug-23	205	31-Dec-22	
05-4290	IWMF Substation (2.8.25)	105	30		31-Jul-21 A	29-Jan-23	12-May-23	10-Jun-23	132		
05-4800 05-5160	IW MF Site Wide Architectural Details Mechanical Treatment Plant & Water Treatment Plant (2.4.25)	105 30	30 30		20-Nov-21 A 31-Dec-22	29-Jan-23	24-Jul-23	22-Aug-23	205	31-Dec-22	
05-6110(M46)	Gate House and miscellaneous	30	30		31-Dec-22 31-Dec-22	29-Jan-23 29-Jan-23	24-Jul-23 24-Jul-23	22-Aug-23 22-Aug-23	205	31-Dec-22	
00 0 110(10170)		347	255		28-Sep-22 A	29-Jan-23		10-Jun-24	203		
DA Mechanical Treatment	Foundation design (2.4.13)	60	32		28-Sep-22 A	31-Jan-23	09-Mar-23	09-Apr-23	68		
		60	60		31-Dec-22	28-Feb-23	24-Mar-23	22-May-23	83	31-Dec-22	
DA Mechanical Treatment 05-5170 05-5180	Structural design (2.4.14)	00									
05-5170	Structural design (2.4.14) Electrical and instrumentation works design (2.4.15)	210	210		14-Feb-23	11-Sep-23	14-Aug-23	10-Mar-24	181		

Critical Remaining Work

♦ Milestone

ct No. EP/SP/66/12 環境保護署
Equilities Dhace 1
Facilities, Phase 1
Feb         Mar           63         64
nstrumentation Works - Ash Crane (2.3.15.05.05), Electrical and Instrumentation W
23, Electrical and Instrumentation Works - Was te Crane and Grapple System (2.3.15 02-Mar-23, Weighbridge Systems
13-Feb-23 15-Mar-23, Mecha
16-Mar-23*
22. Compressed Air Plants. Compress of Air Plants 15, Jan 22
23, Compressed Air Plants, Compressed Air Plants, 15-Jan-23
23, Compressed Air Plantarea, Compressed Air Plantarea, 15-Jan-23
23, Pipebridge B (Between CCCW Area & Turbine Hall), Pipebridge B (Between CC
23, Pipebridge C (Between Turbine Hall & ACC Equipment Yard), Pipebridge C (Betw
23, Turbine Hall, Turbine Hall, 15-Jan-23
23, ACC Equipment Yard, ACC Equipment Yard, 15-Jan-23 23, CCCW Area, CCCW Area, 15-Jan-23
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23, Pipebridge B (Between CCCW Area & Turbine Hall), Pipebridge B (Between CC 23, Pipebridge C (Between Turbine Hall & ACC Equipment Yard), Pipebridge C (Betw
23, Steam Turbine Generator (STG) and Pressure Reducing and Desuperheating Sta
23, Air cooled condenser, Air cooled condenser, 15-Jan-23
28-Feb-23, Fire Systems
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28-Feb-23, FS schematics
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an-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 an-23 29-Jan-23, Building Management System (BMS) 01-Mar-23 an-23 29-Jan-23, Process Building & Was tewater Treatment Plant, Process Building & Was tewater Treatment Plant Plan
an-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 an-23 29-Jan-23, Building Management System (BMS) 01-Mar-23 an-23 29-Jan-23, Process Building & Was tewater Treatment Plant, Process Building - 29-Jan-23, Process Building & Was tewater Treatment Plant, Process Building - 29-Jan-23, Turbine Hall Building, Turbine Hall Building, 29-Jan-23
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lan-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 1an-23 29-Jan-23, Building Management System (BMS) 01-Mar-23 29-Jan-23, Compressor & CCCW Building, Compressor & CCCW Building 29-Jan-23, Chimney 29-Jan-23, Reception Pavilion 29-Jan-23, Site Master Layout Plan and Plant Layout 29-Jan-23, Site Master Layout Plan and Plant Layout 29-Jan-23, WMF Substation (2.8.25), IWMF Substation (2.8.25), 29-Jan-2 29-Jan-23, IWMF Site Wide Architectural Details, WMF Site Wide Archite
lan-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 1an-23 29-Jan-23, Building Management System (BMS) 01-Mar-23 29-Jan-23, Process Building & Was tewater Treatment Plant, Process Building 29-Jan-23, Process Building & Was tewater Treatment Plant, Process Building 29-Jan-23, Compressor & CCCW Building, Compressor & CCCW Building 29-Jan-23, Compressor & CCCW Building, Compressor & CCCW Building 29-Jan-23, Chimney 29-Jan-23, Chimney 29-Jan-23, Site Master Layout Plan and Plant Layout 29-Jan-23, Site Master Layout Plan and Plant Layout 29-Jan-23, WMF Substation (2.8.25), IWMF Substation (2.8.25), 29-Jan-2 29-Jan-23, IWMF Site Wide Architectural Details, WMF Site Wide Archite 29-Jan-23, Mechanical Treatment Plant & Water Treatment Plant (24.25)
lan-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 1an-23 29-Jan-23, Building Management System (BMS) 01-Mar-23 29-Jan-23, Compressor & CCCW Building, Compressor & CCCW Building 29-Jan-23, Chimney 29-Jan-23, Reception Pavilion 29-Jan-23, Site Master Layout Plan and Plant Layout 29-Jan-23, Site Master Layout Plan and Plant Layout 29-Jan-23, WMF Substation (2.8.25), IWMF Substation (2.8.25), 29-Jan-2 29-Jan-23, IWMF Site Wide Architectural Details, WMF Site Wide Archite
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lan-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 29-Jan-23, Building Management System (BMS) 01-Mar-23 29-Jan-23, Building Management System (BMS) 01-Mar-23 29-Jan-23, Building Management System (BMS) 01-Mar-23 29-Jan-23, Process Building & Was tewater Treatment Plant, Process Building 29-Jan-23, Turbine Hall Building, Turbine Hall Building, 29-Jan-23 29-Jan-23, Turbine Hall Building, Turbine Hall Building, 29-Jan-23 29-Jan-23, Compressor & CCCW Building, Compressor & CCCW Building 29-Jan-23, Compressor & CCCW Building, Compressor & CCCW Building 29-Jan-23, Elevated Drive Way and Associated Structures, Elevated Drive 29-Jan-23, Reception Pavilion 29-Jan-23, Bite Master Layout Plan and Plant Layout 29-Jan-23, WMF Substation (2.8.25), IWMF Substation (2.8.25), 29-Jan-2 29-Jan-23, IWMF Substation (2.8.25), IWMF Substation (2.8.25), 29-Jan-2 29-Jan-23, Mechanical Treatm ent Plant & Water Treatment Plant (24.25) 29-Jan-23, Gate House and miscellaneous 31-Jan-23, Foundation design (2.4.13), Foundation design (2.4.14), 31-J 28-Feb-23, Structural design (2.4.14)
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	Activity Name	Original Duration	Remaining Duration	Activity % Complete	Current Start	Current Finish	Late Start	Late Finish	Total Float M61 Remarks	2022 Dec	
5-5210	Fire services installation design (2.4.17)	60	60	0%	31-Dec-22	28-Feb-23	24-Jun-23	22-Aug-23	175	61 31-Dec-22	
	sign (excluding fire services installation design) (2.4.18)	150			31-Dec-22	29-May-23	14-Jan-23		378		
05-3850	LV and Emergency Power Distribution Design	90			01-Mar-23	29-May-23	13-Mar-24	10-Jun-24	378		
)5-3860 )5-3870	MVAC Odour Control	90			31-Dec-22 30-Jan-23	30-Mar-23 29-Apr-23	21-Sep-23 05-May-23	19-Dec-23 02-Aug-23	264 95	31-Dec-22	
)5-3880	Plumbing	60			31-Dec-22	29-Apr-23 28-Feb-23	23-Jun-23	21-Aug-23	174	31-Dec-22	
)5-3890	Drainage	60			10-Jan-23	10-Mar-23	23-Jun-23	21-Aug-23	164		10-Jan-23
)5-3900	Lighting and small power	90	90	0%	31-Dec-22	30-Mar-23	18-May-23	15-Aug-23	138	31-Dec-22	
05-3910	Lifts and Escalators	90			31-Dec-22	30-Mar-23	14-Jan-23	13-Apr-23	14	31-Dec-22	
)5-3910-1 DA Wastewater Treati	Building Management System (BMS)	60 379			31-Dec-22 31-May-22 A	28-Feb-23 13-Jun-23	15-Oct-23 11-May-23	13-Dec-23 22-Apr-24	288 314	31-Dec-22	
5-3950	Electrical and instrumentation works design (2.5.15)	375			31-Dec-22	01-Feb-23	26-May-23	27-Jun-23	146	31-Dec-22	
5-3960	Mechanical works design (2.5.16) (5 Packages)	232	18	5%	31-May-22 A	17-Jan-23	11-May-23	28-May-23	131		
5-3970	Fire services installation design (2.5.17) (2 Packages)	60			31-Dec-22	28-Feb-23	24-Jun-23	22-Aug-23	175	31-Dec-22	
uilding services des 05-3980	sign (excluding fire services installation design) (2.5.18) LV and Emergency Power Distribution Design for IWMF Waste Water Treatm	355 ent 90			24-Jun-22 A 01-Mar-23	13-Jun-23 29-May-23	08-Jun-23 24-Jan-24	22-Apr-24 22-Apr-24	314 329		
05-3990	MVAC	90			01-Mar-23	29-May-23	23-Jun-23	20-Sep-23	114		
05-4000	Odour Control	90	84	0%	24-Jun-22 A	23-May-23	29-Jun-23	20-Sep-23	120		
05-4010	Plumbing	90			01-Mar-23	29-May-23	23-Jun-23	20-Sep-23	114		
05-4020 05-4030	Drainage ELV	105			01-Mar-23 01-Mar-23	13-Jun-23 29-May-23	08-Jun-23 28-Jul-23	20-Sep-23 25-Oct-23	99 149		
	Plant Building (2.6)	393			11-Apr-22 A	29-May-23	28-Jul-23 09-Mar-23	25-001-23 09-Apr-24	316		
5-4060	Foundation design (2.6.13)	60	32	80%	28-Sep-22 A	31-Jan-23	09-Mar-23	09-Apr-23	68		
5-4070	Structural design (2.6.14)	60			29-Sep-22 A	28-Feb-23	24-Mar-23	22-May-23	83		
5-4090 5-4100	Mechanical works design (2.6.16) Fire services installation design (2.6.17)	90			02-May-22 A 31-Dec-22	30-Jan-23 28-Feb-23	10-Mar-24 24-Jun-23	09-Apr-24 22-Aug-23	435	31-Dec-22	
	sign (excluding fire services installation design) (2.6.18)	335			29-Jun-22 A	29-May-23	18-May-23		204	31-Dec-22	
05-4110	Electrical Services and Lighting	90			01-Mar-23	29-May-23	18-May-23	15-Aug-23	78		
05-4120	MVAC	90			29-Jun-22 A	29-Mar-23	22-Sep-23	19-Dec-23	265		
05-4140	Plumbing	60			31-Dec-22 10-Jan-23	28-Feb-23	23-Jun-23	21-Aug-23	174	31-Dec-22	
)5-4150 )5-4160	Drainage ELV	90			31-Dec-22	10-Mar-23 30-Mar-23	23-Jun-23 18-May-23	21-Aug-23 15-Aug-23	138	31-Dec-22	
	nentation works design (2.6.15)	238			11-Apr-22 A	23-Jan-23		30-May-23	127		
05-4080	Water Treatment Plant (WTP) - Variable Speed Drive (2.6.15.01)	238			11-Apr-22 A	23-Jan-23	-	30-May-23	127		
DA Administration Bu 5-4190	uilding (2.7) Structural design (2.7.12)	165			31-Dec-22 31-Dec-22	13-Jun-23 14-Apr-23	14-Jan-23 23-Jun-23	13-Dec-23 05-Oct-23	183 174	31-Dec-22	
5-4210	Fire services installation design (2.7.14)	60			31-Dec-22 31-Dec-22	28-Feb-23	23-Jun-23	22-Aug-23	175	31-Dec-22	
	sign (excluding fire services installation design) (2.7.15)	165	165		31-Dec-22	13-Jun-23	14-Jan-23	13-Dec-23	183		
05-4220	Electrical Services and Lighting	105			31-Dec-22	14-Apr-23	02-Feb-23	17-May-23	33	31-Dec-22	
)5-4230 )5-4250	MVAC Plumbing	105			01-Mar-23 31-Dec-22	13-Jun-23 14-Apr-23	23-Mar-23 22-Apr-23	05-Jul-23 04-Aug-23	22 112	31-Dec-22	
05-4260	Drainage	105			31-Dec-22	14-Apr-23	23-Mar-23	05-Jul-23	82	31-Dec-22	
)5-4270	ELV	105	105		31-Dec-22	14-Apr-23	04-Mar-23	16-Jun-23	63	31-Dec-22	
)5-4280	Lifts and Escalators	90			31-Dec-22	30-Mar-23	14-Jan-23	13-Apr-23	14	31-Dec-22	
)5-4280-1 DAIWMFSubstation	Building Management System (BMS)	105			31-Dec-22 25-Oct-21 A	14-Apr-23 28-Feb-23	31-Aug-23 06-May-23		243 367	31-Dec-22	
5-4340	Fire services installation design (2.8.17)	60			17-Jun-22 A	29-Jan-23	08-Jun-23		159		
	sign (excluding fire services installation design) (2.8.18)	151			25-Oct-21 A	29-Jan-23		01-Mar-24	397		
05-4990	Electrical Services and Lighting	90			22-Apr-22 A	29-Jan-23		04-Jun-23	126		
05-5000 05-5010	MVAC Plumbing	90			19-Nov-21 A 08-Dec-22 A	29-Jan-23 29-Jan-23	01-Feb-24 08-Jun-23	01-Mar-24 07-Jul-23	397 159	-22A	
05-5020	Drainage	60			10-Nov-22 A	29-Jan-23	08-Jun-23	07-Jul-23	159		
05-5030	ELV	90			25-Oct-21 A	29-Jan-23	24-Oct-23	22-Nov-23	297		
05-5030-1	Building Management System (BMS)	60			25-Oct-21 A	29-Jan-23	08-Jun-23	07-Jul-23	159		
lectrical and instrum 2.8.15.06	nentation_works design (2.8.15)	90			15-Mar-22 A 15-Mar-22 A	28-Feb-23 28-Feb-23	06-Sep-23 06-Sep-23		219 219		
05-4320	Electrical and instrumentation works design (2.8.15.06.01 to 40)	90			15-Mar-22 A	28-Feb-23	06-Sep-23		219		-
	sers Equipment (2.3.06)	90			31-Dec-22	30-Mar-23			498		
uilding services des 15-5510	sign (excluding fire services installation design) (2.3.06) Electrical Services and Lighting	90			31-Dec-22 31-Dec-22	30-Mar-23 30-Mar-23	15-Sep-23 12-May-24	09-Aug-24 09-Aug-24	498 498	31-Dec-22	
05-5520	Plumbing	60			31-Dec-22	28-Feb-23	21-Dec-23	-	355	31-Dec-22	
5-5530	ELV	90			31-Dec-22	30-Mar-23	12-May-24		498	31-Dec-22	
05-5540	Building Management System (BMS)	90			31-Dec-22	30-Mar-23		13-Dec-23	258	31-Dec-22	
<b>)A Chimney</b> 5-5370	Structural Design	<u>335</u> 90			14-Mar-22 A 14-Mar-22 A	29-May-23 30-Mar-23	13-Feb-23 02-May-23		374 122		i
5-5540-2(6D)	Fire services installation design	60			01-Mar-23	29-Apr-23	08-Apr-24		404		
	sign (excluding fire services installation design)	335			29-Jun-22 A	29-May-23	13-Feb-23				
05-6000-1(5a)	Electrical Services and Lighting	90	90	0%	01-Mar-23	29-May-23	08-Feb-24	07-May-24	344		
onth Roll	ling Programme (December 2022)								Remaining Work	<ul> <li>Actual Milestone</li> </ul>	
									Actual Work	<ul> <li>Critical Milestone</li> </ul>	

ract No. EP/SP/66/12 環境保護署 Environmental Pro ent Facilities, Phase 1 28-Feb-23, Fire services installation 01-Mar-23 🔲 30-Jan-23 🔲 28-Feb-23, Plumbing 10-Mar-23, Drainage 28-Feb-23, Building Management S 01-Feb-23, Electrical and instrumentation works design (2.5.15) 7-Jan-23, Mechanical works design (2.5.16) (5 Packages), Mechanical works design (2. 28-Feb-23, Fire services installatio 01-Mar-23 🗖 01-Mar-23 🗖 01-Mar-23 01-Mar-23 01-Mar-23 🔲 31-Jan-23, Foundation design (2.6.13), Foundation design (2.6.13), 31-J 28-Feb-23, Structural design (2.6.14 30-Jan-23, Mechanical works design (2.6.16), Mechanical works design 28-Feb-23, Fire services installation 01-Mar-23 💻 28-Feb-23, Plumbing 10-Mar-23, Drainage 23-Jan-23, Water Treatment Plant (WTP) - Variable Speed Drive (2.6.15.01), Wat 28-Feb-23, Fire services installation 01-Mar-23 🗖 29-Jan-23, Fire services installation design (2.8.17), Fire services installa 29-Jan-23, Electrical Services and Lighting, Electrical Services and Lightin 29-Jan-23, MVAC, MVAC, 29-Jan-23 29-Jan-23, Plumbing, Plumbing, 29-Jan-23 29-Jan-23, Drainage, Drainage, 29-Jan-23 29-Jan-23, ELV, ELV, 29-Jan-23 29-Jan-23, Building Management System (BMS), Building Management 28-Feb-23, Electrical and instrum 28-Feb-23, Plumbing 01-Mar-23 🔲 01-Mar-23 🗖

KEPPEL SEGRERS - ZHEN HUAJOIN	Activity Name	Original Duration	Remaining	Activity % Current Start Complete	Current Finish	Late Start	Late Finish	Total Float M61 Remarks	Integrated Was	
			Duration						Dec 61	Jan 62
05-6010(5a)	MVAC	60	60	0% 30-Jan-23	30-Mar-23	21-Oct-23	19-Dec-23	264		4
05-6020-1(5a) 05-6030-1(5a)	Plumbing Drainage	90	90 90	0% 01-Mar-23 0% 01-Mar-23	29-May-23 29-May-23	01-Feb-24 01-Feb-24	30-Apr-24 30-Apr-24	337 337		
05-6040-1(5a)	ELV	90	90	0% 01-Mar-23	29-May-23	08-Feb-24	07-May-24	344		
05-6050-1(5a)	Lift	90	60	0% 29-Jun-22 A	28-Feb-23	13-Feb-23	13-Apr-23	44		
05-6060-1(5a)	Building Management System (BMS)	90	90	0% 01-Mar-23	29-May-23	15-Sep-23	13-Dec-23	198		]
	and Associated Structures Foundation	150			29-May-23	06-Mar-23		108		
05-5380 05-5540-3(6D)	Structural Design Fire services installation design	90		0% 31-Dec-22 0% 31-Dec-22	30-Mar-23 28-Feb-23	06-Mar-23 24-Jun-23	03-Jun-23 22-Aug-23	65 175	31-Dec-22 31-Dec-22	
. ,	n (excluding fire services installation design)	150			29-May-23	18-Apr-23		108		
05-5560	Building Management System (BMS)	90	90		30-Mar-23	18-Apr-23	16-Jul-23	108	31-Dec-22	
05-7240	Electrical Services and Lighting	90	90	0% 01-Mar-23	29-May-23	18-Apr-23	16-Jul-23	48		
05-7250	MVAC	105	105	0% 31-Dec-22	14-Apr-23	01-May-23	13-Aug-23	121	31-Dec-22	4
05-7260	Plumbing Drainage	105	105 105	0% 31-Dec-22 0% 31-Dec-22	14-Apr-23 14-Apr-23	02-Jun-23 03-May-23	14-Sep-23 15-Aug-23	153 123	31-Dec-22 31-Dec-22	
05-7280	ELV	105	105	0% 31-Dec-22	14-Apr-23		15-Aug-23	123	31-Dec-22	
DDA Reception Pavilion		120			29-Apr-23	-	29-Jun-24	427		
05-3280	Foundation Design	90	90	0% 30-Jan-23	29-Apr-23	13-Aug-23	10-Nov-23	195		]
05-5390	Structural Design	105	105	0% 31-Dec-22	14-Apr-23	23-Mar-23	05-Jul-23	82	31-Dec-22	
05-5540-4(6D)	Fire services installation design n (excluding fire services installation design)	60 105		0% 31-Dec-22 31-Dec-22	28-Feb-23		22-Aug-23 29-Jun-24	175 442	31-Dec-22	
Building services design 05-2130-1	Building Management System (BMS)	105 90		0% 31-Dec-22	14-Apr-23 30-Mar-23	18-May-23 18-May-23	29-Jun-24 15-Aug-23	138	31-Dec-22	<u>.</u>
05-7290	Electrical Services and Lighting	90	90	0% 31-Dec-22	30-Mar-23	18-May-23	15-Aug-23	138	31-Dec-22	
05-7300	MVAC	105	105	0% 31-Dec-22	14-Apr-23	17-Mar-24	29-Jun-24	442	31-Dec-22	
05-7310	Plumbing	105	105	0% 31-Dec-22	14-Apr-23	17-Mar-24	29-Jun-24	442	31-Dec-22	
05-7320	Drainage	105	105	0% 31-Dec-22	14-Apr-23	17-Mar-24	29-Jun-24	442	31-Dec-22	
05-7330	ELV	105 90		0% 31-Dec-22 31-Dec-22	14-Apr-23 30-Mar-23	02-Jun-23	14-Sep-23 06-Jun-24	153 434	31-Dec-22	
05-5540-5(6D)	Fire services installation design	60		0% 31-Dec-22	28-Feb-23	24-Jun-23	22-Aug-23	175	31-Dec-22	
Building services design	n (excluding fire services installation design)	90	90	31-Dec-22	30-Mar-23	07-Mar-23	06-Jun-24	434		1
05-2130-2	Building Management System (BMS)	60		0% 31-Dec-22	28-Feb-23	06-Apr-23	04-Jun-23	96	31-Dec-22	
05-7340	Electrical Services and Lighting	90	90	0% 31-Dec-22	30-Mar-23	07-Mar-23	04-Jun-23	66	31-Dec-22	
05-7350 05-7360	MVAC Plumbing	60 60	60 60	0% 31-Dec-22 0% 31-Dec-22	28-Feb-23 28-Feb-23	21-Oct-23 08-Apr-24	19-Dec-23 06-Jun-24	294 464	31-Dec-22 31-Dec-22	
05-7370	Drainage	60	60	0% 31-Dec-22	28-Feb-23	08-Apr-24	06-Jun-24	464	31-Dec-22	
05-7380	ELV	60	60	0% 31-Dec-22	28-Feb-23	24-Oct-23	22-Dec-23	297	31-Dec-22	
DDA Roads and Utilities (		318			13-Jun-23	25-Dec-22		563		
Permanent road works la 05-4470	ayout on the Artificial Island (210.13) Roads and hardstandings layout	90 90	<u>90</u> 90	31-Dec-22 0% 31-Dec-22	30-Mar-23 30-Mar-23	20-Oct-23 20-Oct-23	17-Jan-24 17-Jan-24	293 293	31-Dec-22	
05-4480	Road signage and markings	90	90	0% 31-Dec-22	30-Mar-23	20-Oct-23	17-Jan-24	293	31-Dec-22	
Sewerage design on the		184				23-Jun-23		668		
05-4430	Foul Sewerage	60	60	0% 31-Dec-22	28-Feb-23	23-Jun-23	21-Aug-23	174	31-Dec-22	
05-4440	Contaminated Sewerage (Site Wide Sewerage System)	60	60	0% 31-Dec-22	28-Feb-23	23-Jun-23	21-Aug-23	174	31-Dec-22	
05-4440-1(M55)	Ship-to-shore Sewage Transfer System for WMF Vessels (Caisson 13)	90	4	45% 13-Jan-22 A	03-Jan-23	24-Dec-24	27-Dec-24	724		03-Jan-23, Shi
05-4440-2(M55)	Ship-to-shore Sewage Transfer System for Pæsenger Ferry on the Artificial Island (210.15)	90 90		45% 13-Jan-21 A 31-Dec-22	28-Feb-23 30-Mar-23		21-Aug-23 03-Oct-23	174 187		
05-5310	Surface water Drainage System	90			30-Mar-23	06-Jul-23	03-Oct-23	187	31-Dec-22	
	sign on the Artificial Island (2.10.16)	287			13-Jun-23		04-Nov-23	144		
05-5250	Potable Water Distribution System	105		0% 31-Dec-22	14-Apr-23	23-Jul-23	04-Nov-23	204	31-Dec-22	
05-5260	Recycled Water System	90	90	0% 31-Dec-22	30-Mar-23	07-Aug-23	04-Nov-23	219	31-Dec-22	
05-5270 05-5280	Irrigation System Rainwater harvesting System	90	90 90	0% 31-Dec-22 0% 31-Dec-22	30-Mar-23 30-Mar-23	07-Aug-23 07-Aug-23	04-Nov-23 04-Nov-23	219 219	31-Dec-22 31-Dec-22	
05-5290	Water Tanks	60	60	0% 01-Mar-23	29-Apr-23	10-Mar-23	08-May-23	9		
05-5300	External FS Systems	60	60	0% 31-Dec-22	28-Feb-23	10-Mar-23	08-May-23	69	31-Dec-22	
05-5300-1(M24)	E&M system for seawater intake (2.10.16.07)	105	75	5% 04-Apr-22 A	15-Mar-23	22-Aug-23	04-Nov-23	234		<b>.</b>
05-5300-2(M24)	Building Services system for seawater intake (2.10.16.09)	105		0% 01-Mar-23	13-Jun-23	23-Jul-23	04-Nov-23	144		
05-5300-3(5a)	Chemical scrubber system for odour control (2.10.16.10)	105		0% 01-Mar-23	13-Jun-23 30-Mar-23	23-Jul-23 25-Dec-22	04-Nov-23	144		l
05-3400 (M21)	ation and other utilities (2.10.18) Computerised Maintenance Management System (CMMS) (2.10.18.10)	243 105		10-May-22 A 80% 24-May-22 A	29-Jan-23		21-Mar-23	293 51		
05-3410 (M21)	Information and Document Management System (IDMS) (2.10.18.11)	105		45% 10-May-22 A	28-Feb-23		31-Oct-23	245		·····
05-4580	Power Distribution System concept / schematics	75		0% 01-Jan-23	16-Mar-23	04-Nov-23	17-Jan-24	307	01-Jan-23	]
05-4590	Site Lighting Concept / Schematics	90	90	0% 31-Dec-22	30-Mar-23	08-Feb-23	08-May-23	39	31-Dec-22	
05-4600	Lightning Protection System concept / schematics	90	90	0% 31-Dec-22	30-Mar-23	20-Oct-23	17-Jan-24	293	31-Dec-22	
05-4610	Site ELV Network System - Communications System concept / schematics	75		0% 31-Dec-22	15-Mar-23	25-Dec-22	09-Mar-23	-6	31-Dec-22	
05-4620	Site ELV Network System - Security Systems concept / schematics	75		0% 31-Dec-22	15-Mar-23	25-Dec-22	09-Mar-23	-6	31-Dec-22	ab 22
05-4630	Site ELV Network System - Navigation aids concept / schematics	60	60	0% 06-Jan-23	06-Mar-23	09-Jan-23	09-Mar-23	3	06-Ja	ah-23



Actual Milestone •

Critical Milestone

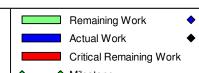
Critical Remaining Work

ct No. EP/SP/66/12 t Facilities, Phase 1	最境保護署 Environmental Protection Department
2023 Feb	Mar
63	64
Jan-23	
01-Mar-23	
01-Mar-23	
01-Mar-23	28-Feb-23   ift   ift 28 Eab 22
01-Mar-23	28-Feb-23, Lift, Lift, 28-Feb-23
0 1-1Midi -23	
	28-Feb-23, Fire services installation
01-Mar-23	
Jan-23	
	28-Feb-23, Fire services installation
	28-Feb-23, Fire services installation
	28-Feb-23, Building Management Sy
	20-1 eb-23, building Management Sy
	28-Feb-23, MVAC
	28-Feb-23, Plumbing
	28-Feb-23, Drainage
	28-Feb-23, ELV
	28-Feb-23, Foul Sewerage
	28-Feb-23, Contaminated Sewerage
ore Sewage Transfer System for IWMF Vessels	28-Feb-23, Ship-to-shore Sewage Tr
	20-1 eb-23, Ship-to-shore Sewage in
·····	
01-Mar-23	
	28-Feb-23, External FS Systems
	15-Mar-23, E&M s
01-Mar-23	
01-Mar-23	
29-Jan-23, Computerised Maintenan	ce Management System (CMMS) (2.1
	28-Feb-23, Information and Docume 16-Mar-23, Pow
	10-1viai-20, POW
	15-Mar-23, Site E
	15-Mar-23, Site E
	06-Mar-23, Site ELV Network
Microwave transmission of FS	direct link, 03-Feb-23, 03-Feb-23, Mid

古背五格載一紙等型 KEPPELSEGILLES-20LEN HELAJOINT		Original	Remaining	Activity % Current Start	Current Finish	Late Start	Late Finish	Total Float M61 Remarks		ste Management
		Duration	Duration	Complete					Dec 61	Jan 62
<b>—</b> 05-4650	Fuel Handling System concept / schematics	90	90	0% 31-Dec-22	30-Mar-23	20-Oct-23	17-Jan-24	293	31-Dec-22	
Utility ducts/Pipebridges 05-5040	design (2.10.26) Design of Pipe / Utilities Trenches concept	90 90	90 90	01-Mar-23 0% 01-Mar-23	29-May-23 29-May-23		19-Dec-23 19-Dec-23	204		
05-5050	Sitewide Utilities Trenches Design	90	90	0% 01-Mar-23	29-May-23	· ·	19-Dec-23	204		-
DDA Architectural, Finishe	s and Landscaping Works (2.11)	335	150		29-May-23	27-Jan-23	16-May-24	353		
External and internal finis	shes design External and internal finishes design for Incineration Plant Building (2.11.15)	227 90	<u>135</u> 90	10-Aug-22 A 5% 19-Sep-22 A		27-Jan-23 22-Jul-23	19-Oct-23 19-Oct-23	158 203		
<ul> <li>05-4670</li> <li>05-4690</li> </ul>	External and internal finishes design for Turbine Hall Building (2.11.15)	90	90	5% 19-3ep-22 A		22-Jui-23 22-Mar-23	30-Mar-23	81		
05-4700	External and internal finishes design for CCCW Building	90	9	5% 10-Aug-22 A		08-Apr-23	16-Apr-23	98		08-Jan-23, Extern
05-4710	External and internal finishes design for Chimney	90	62	5% 02-Sep-22 A	02-Mar-23	03-Aug-23	03-Oct-23	215		
05-4720	External and internal finishes design for Reception Pavilion	90	90	0% 14-Feb-23	14-May-23	07-May-23	04-Aug-23	82		
05-4730	External and internal finishes design for MT Plant Building (2.11.16)	90	90	0% 10-Jan-23	09-Apr-23	22-Jul-23	19-Oct-23	193		1¦0-Jan-23
<pre>05-4740 05-4750</pre>	External and internal finishes design for the Wastewater Treatment Plant (2.11.17) External and internal finishes design for the Water Treatment Plant Building (2.11.	90 90	30 90	5% 19-Sep-22 A 0% 10-Jan-23	29-Jan-23 09-Apr-23	20-Sep-23 22-Jul-23	19-Oct-23 19-Oct-23	263 193		10-Jan-23
05-4760	External and internal finishes design for the Administration Building (2.11.19)	90	90	0% 10-Jan-23	09-Apr-23	07-May-23	04-Aug-23	117		10-Jan-23
05-4770	External and internal finishes design for the IWMF Substation (2.11.20)	90	9	5% 10-Aug-22 A	· ·	27-Jan-23	04-Feb-23	27		08-Jan-23, Extern
05-5420	External and internal finishes design for Elevated Driveway	90	90	0% 31-Dec-22	30-Mar-23	13-Apr-23	11-Jul-23	103	31-Dec-22	
Landscaping Works (2.11		148	135		14-May-23	09-Mar-23		38		
05-4780 05-4780-1(6C)	Landscape Masterplan & Landscape Design for Water Feature (2.11.19.01) Landscape Architectural Design for Turbine Hall Building (2.11.19.04)	105 105	105 105	0% 30-Jan-23 5% 29-Jun-22A	14-May-23 14-Apr-23	09-Mar-23 09-Mar-23	21-Jun-23 21-Jun-23	38		30-Ja
05-4780-2(6C)	Landscape Architectural Design for Reception Pavilion (2.11.19.07)	105	105	0% 31-Dec-22	14-Apr-23	09-Mar-23	21-Jun-23	68	31-Dec-22	
05-4780-3(6C)	Landscape Architectural Design for MT Plant Building and Water Treatment Plant	105	105	0% 30-Jan-23	14-May-23	09-Mar-23	21-Jun-23	38		
05-4780-4(6C)	Landscape Architectural Design for Administration Building (2.11.07.09)	105	105	0% 30-Jan-23	14-May-23	09-Mar-23	21-Jun-23	38		30-Ja
05-4780-5(6C)	Landscape Architectural Design for IWMF Substation (2.11.07.10)	105	105	5% 11-Jul-22 A	14-Apr-23	09-Mar-23	21-Jun-23	68		
05-4780-6(6C)	Landscape Architectural Design for Process Building (2.11.07.11)	105	105	5% 10-Aug-22 A			21-Jun-23	68		
Facade Structural Design 05-8000(M45)	Chim ney (2.3.14.05.01)	335 90	150 90	07-Apr-22 A 0% 31-Dec-22	29-May-23 30-Mar-23	22-Sep-23 19-Nov-23	16-May-24 16-Feb-24	353 323	31-Dec-22	
05-8010(M45)	IWMF Substation	90	30	0% 11-Jul-22 A	29-Jan-23	18-Jan-24	16-Feb-24	383	51-D60-22	
05-8020(6D)	Process Building & Wastewater Treatment Plant (2.6.14.01)	90	60	80% 07-Apr-22A	28-Feb-23	20-Oct-23	18-Dec-23	293		
05-8040(6D)	Reception Pavilion (2.3.14.07.01)	90	90	0% 01-Mar-23	29-May-23	17-Feb-24	16-May-24	353		
05-8050(6D)	Mechanical Treatment Plant & Desalination Plant Building (2.4.14.01)	90	90	0% 01-Mar-23	29-May-23	18-Jan-24	16-Apr-24	323		
05-8060(6D)	Administration Building and Viewing Gallery (2.7.12.01)	90	90	0% 01-Mar-23	29-May-23	18-Jan-24	16-Apr-24	323		
05-8070(6D) 05-8080(6D)	Turbine Hall Buliding Elevated Driveway and Associated Structures	90 90	90 90	0% 31-Dec-22 0% 30-Jan-23	30-Mar-23 29-Apr-23	18-Jan-24 22-Sep-23	16-Apr-24 20-Dec-23	383 235	31-Dec-22	
DDA Testing and Commiss		90 291	151		· ·		20-Dec-23	244		
05-4810	Factory Acceptance Testing plan (2.12.09.01)	90	90	0% 31-Dec-22	30-Mar-23	05-Feb-23	05-May-23	36	31-Dec-22	
05-4810-1(5a)	Factory Acceptance Testing plan (2.12.09.02-07) (8 Packages)	90	91	5% 13-Jun-22 A	30-May-23	31-Oct-23	29-Jan-24	244		•
05-4810-2(M55)	FAT of DCS - Software SIL FAT Plant for Process Island (2.12.09.03.01)	105	10	80% 19-May-22 A		-	01-Sep-23	235		09-Jan-23, FAT
DDA Transportation Facilit 05-4850	besign of vehicles for MSW and Ash and Residues delivery (2.13.05)	341 341	152 152	25-Jun-22 A 0% 25-Jun-22 A	31-May-23 31-May-23	09-Feb-23 09-Feb-23	10-Jul-23 10-Jul-23	40		
05-4860	Design of warine vessels for the use of the Employer and visitors (2.13.06)	152	152	0% 25-5011-22 A	31-May-23	09-Feb-23	10-Jul-23	40	31-Dec-22	
DDA Miscellaneous Works		427	427			09-Jun-23		100		
05-4880	Design of visitors and environmental education facilities (2.14.06)	427	427	0% 01-Mar-23	30-Apr-24	09-Jun-23	08-Aug-24	100		
DDA MiscellaneousDetaili		62	62		02-Mar-23		03-Oct-23	215		-
05-4910 DDA Auxiliary Plant Syster	W eighbridge office (2.15.08)	62 289	62 165		02-Mar-23 13-Jun-23		03-Oct-23 30-Dec-23	215 200	31-Dec-22	
05-4940-1(5a)	IWMF Laboratory (2.16.08)	73	73	0% 31-Dec-22	13-Mar-23		30-Dec-23	200	31-Dec-22	
05-4940-2(5a)	Hoisting systems (2.16.10)	165	165	0% 31-Dec-22	13-Jun-23	09-Apr-23	20-Sep-23	99	31-Dec-22	
05-4940-3(6E)	EOTC System (2.16.11)	90	75	5% 26-Apr-22 A	15-Mar-23	10-Feb-23	25-Apr-23	41		
DDA O&M Packages		384	384		25-Feb-24		17-Dec-24	296		
05-8070(6E)	Warehouse (O&M Scope) Ash & Residues Container (O&M Scope)	380	380	0% 11-Feb-23	25-Feb-24		17-Dec-24	296		
05-8090(6E)		230 1033	230 362	0% 07-Feb-23 08-Jan-20 A	24-Sep-23 27-Dec-23	02-May-24 21-Oct-22	17-Dec-24 10-Feb-25	450 411		
Procurement of Majo Off-site Fabrication of I		821	159	28-Feb-21 A	07-Jun-23	21-Oct-22	25-Nov-23	171		
Material Procurement		180	60				27-Aug-23	180		
06-1000-3(1)	Electrical and Instrumentation Material Submission and Approval	180	60	58% 28-Feb-21 A	28-Feb-23		27-Aug-23	180		
Fabrication of Module (TP	U)	696	159			21-Oct-22		171		
PFab 1- Line 1 Mechanical Erection		409 218	95 11		04-Apr-23 10-Jan-23	03-Nov-22	25-Nov-23 13-Dec-22	-28		
06-TPU-1-1100	PFab 1-Line 1 Mechanical Installation - 1st Floor (Below EL20.47m) (Including C	80	11		10-Jan-23		13-Dec-22	-28		PFab 1-Line 1 I
06-TPU-1-1110	PFab 1-Line 1 Mechanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Includi	80	11	86.25% 22-Feb-22 A	10-Jan-23		13-Dec-22	-28		PFab 1-Line 1
06-TPU-1-1120	PFab 1-Line 1 Mechanical Installation - 3rd Floor( EL26.72m~EL37.72m) ( Includ	80	11	86.25% 06-May-22 A	10-Jan-23	03-Dec-22	13-Dec-22	-28		PFab 1-Line 1
06-TPU-1-1130	PFab 1-Line 1 Mechanical Installation - 4th Floor(EL37.72m~EL47.22m) (Includi	80	11	86.25% 18-Jun-22 A	10-Jan-23		13-Dec-22	-28		PFab 1-Line 1 I
E&I Installation (On-site	Installation)	152	95	04-Nov-22 A	04-Apr-23		25-Nov-23	235		
Electrical		150	93	04-Nov-22 A	02-Apr-23	03-Nov-22	25-Nov-23	237		. <u>B</u>
06-TPU-1-1280	PFab 1-Line 1 - Electrical Cable Pulling and Termination	30	30	0% 04-Mar-23	02-Apr-23	27-Oct-23	25-Nov-23	237		

<b>3-Month Rolling</b>	Programme	(December	2022)
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Page 8 of 18



Actual Milestone Critical Milestone

		2023 Feb 63			Mar 64
		01-Ma			
		01-Ma	r-23		
				iilding, External a	rnal and internal fini and internal finishes External and interna
	14-Feb-23			^	
2	9-Jan-23, Exte	rnal and intern	al fini	shes design for t	the Wastewater Trea
and inte	ernal finishes d	esign for the IV	V MF	Substation (2.11	.20), External and ir
23 🗖					
23 🗖					
23 🗖					
2	9-Jan-23, IWN	IF Substation,	IWM	F Substation, 29-	Jan-23
		04 14-		28-Feb-23, Pr	ocess Building & V
		01-Ma 01-Ma			
		01-Ma	r-23		
23 🗖					
DCS - S	oftware SILFA	T Plant for Pro	ocess	Island (2.12.09.0	03.01), FAT of DCS
		01-Ma	r-23		
				02-Mar-23,	Weighbridge office
					] 13-Mar-23, IW MI
					1 10-10a1-20, 100 101
					15-Mar-23, EC
	11-Feb-23 🔲				
07-Fe	eb-23				
				28-Feb-23, El	ectrical and Instrum
					ing Combustion Gra
chanica	al Installation -	3rd Floor( EL2	6.72r	n~EL37.72m) ( I	cluding Deaerator), ncluding Boiler Ash cluding Air Ducts),
		04 01-Mar	-Mar- -23*	23	2
		U I - IVIAI	20		

<ul> <li>06-TPU-1-1300</li> <li>06-TPU-1-1340</li> </ul>	PFab 1-Line 1 - Electrical Heat Tracing Installation (Installation in Yard)									
	F F AD I-LINE I - E IECUICAI FIEAL I ACINUITS LANALION (INSLANALION IN TATU)	26	11	57.69% 04-Nov-22 A	10-Jan-23	03-Nov-22	13-Nov-22	-58	61	62 PFab 1-Lir
	PFab 1-Line 1 - MCC room installation (Installation in Yard)	25	11	56% 05-Nov-22 A	10-Jan-23	03-Nov-22	13-Nov-22	-58		PFab 1-Lir
lnstrument		131	30	25-Nov-22 A	04-Apr-23	27-Oct-23	25-Nov-23	235		
06-TPU-1-1310	PFab 1-Line 1 - Instrument Cable Pulling and Termination	30	30	0% 06-Mar-23	04-Apr-23	27-Oct-23	25-Nov-23	235		
06-TPU-1-1320 06-TPU-1-1330	PFab 1-Line 1 - Instrument Equipment Installation PFab 1-Line 1 - Instrument Tubing Installation	26 26	9 26	65.38% 25-Nov-22 A 0% 08-Mar-23	16-Mar-23 02-Apr-23	29-Oct-23 29-Oct-23	06-Nov-23 23-Nov-23	235		
Insulation	Frab I-Line I - Instrument lubing instantation	150	20	23-May-22 A	10-Jan-23	05-Nov-22	13-Nov-22	-58		
06-TPU-1-1020	PFab 1-Line 1 - Insulation	150	9	94% 23-May-22 A	10-Jan-23	05-Nov-22	13-Nov-22	-58		PFab 1-Li
Precommissioning		15	15	08-Jan-23	22-Jan-23	11-Nov-22	25-Nov-22	-58		
06-TPU-1-1030	PFab 1-Line 1 - Pre-commissioning	15	15	0% 08-Jan-23	22-Jan-23	11-Nov-22	25-Nov-22	-58		08-Jan-23
Load out & Shipping 06-TPU-1-1040	PFab 1-Line 1 - Load out & ready to ship	20 20	20 20	23-Jan-23 0% 23-Jan-23	11-Feb-23 11-Feb-23	26-Nov-22 26-Nov-22	15-Dec-22 15-Dec-22	-58 -58		23-Jan-2
Delivery		10	10	12-Feb-23	21-Feb-23	16-Dec-22		-58		
06-TPU-1-1350	PFab 1-Line 1 - Delivery	10	10	0% 12-Feb-23	21-Feb-23	16-Dec-22	25-Dec-22	-58		
PFab 1- Line 2		419	106	04-Feb-22 A	15-Apr-23		25-Nov-23	224		
Mechanical Erection 06-TPU-2-1120	PFab 1-Line 2 - Mechanical Installation - 1st Floor (Below EL20.47m) (Including (	213 80	39 26	04-Feb-22 A 67.5% 04-Feb-22 A	07-Feb-23 25-Jan-23	12-Nov-22 25-Nov-22	20-Dec-22 20-Dec-22	-49 -36		
06-TPU-2-1130	PFab 1-Line 2 - Mechanical Installation - 2nd Floor (EL20.47m~EL26.72m) (Included)	80	26	67.5% 25-Feb-22 A	25-Jan-23	25-Nov-22	20-Dec-22	-36		
06-TPU-2-1140	PFab 1-Line 2 - Mechanical Installation - 3rd Floor( EL26.72m~EL37.72m) (Inclu	80	26	67.5% 06-May-22 A	25-Jan-23	25-Nov-22	20-Dec-22	-36		
06-TPU-2-1150	PFab 1-Line 2 - Mechanical Installation - 4th Floor(EL37.72m~EL47.22m) (Includ	80	39	51.25% 19-Jun-22 A	07-Feb-23	12-Nov-22	20-Dec-22	-49		
E&I Installation (On-site Ins	stallation)	101	106	16-Dec-22 A	15-Apr-23	21-Oct-22	25-Nov-23	224		
Electrical 06-TPU-2-1270	PFab 1-Line 2 - Electrical Cable Pulling and Termination	97 30	102 30	16-Dec-22 A 0% 13-Mar-23	11-Apr-23	21-Oct-22	25-Nov-23 25-Nov-23	228 228		
06-TPU-2-1270	PFab 1-Line 2 - Electrical Gable Pulling and termination PFab 1-Line 2 - Electrical Equipment Installation	26	26	0% 13-Mar-23	11-Apr-23 07-Apr-23	27-Oct-23 23-Oct-23	17-Nov-23	228		/
06-TPU-2-1290	PFab 1-Line 2 - Electrical Heat Tracing Installation (Installation by Yard)	26	26	0% 05-Jan-23*	30-Jan-23	26-Oct-22	20-Nov-22	-71	05-J	an-23*
06-TPU-2-1330	PFab 1-Line 2 - MCC room installation (Installation by Yard)	25	31	0% 16-Dec-22 A	30-Jan-23	21-Oct-22	20-Nov-22	-71	A, 16-Dec-22A	
🛓 Instrument		34	34	13-Mar-23	15-Apr-23	23-Oct-23	25-Nov-23	224		
06-TPU-2-1300	PFab 1-Line 2 - Instrument Cable Pulling and Termination	30	30	0% 17-Mar-23	15-Apr-23	27-Oct-23	25-Nov-23	224		
06-TPU-2-1310	PFab 1-Line 2 - Instrument Equipment Installation	26	26	0% 13-Mar-23	07-Apr-23	23-Oct-23	17-Nov-23	224		
06-TPU-2-1320	PFab 1-Line 2 - Instrument Tubing Installation	26	26	0% 13-Mar-23	07-Apr-23	23-Oct-23	17-Nov-23	224		
<b>Insulation</b> 06-TPU-2-1010	PFab 1-Line 2 - Insulation	150 150	31 31	22-May-22 A 79.33% 22-May-22 A	30-Jan-23 30-Jan-23	21-Oct-22 21-Oct-22	20-Nov-22 20-Nov-22	-71 -71		····
Precommissioning		15	15	27-Jan-23	10-Feb-23	17-Nov-22	01-Dec-22	-71		
06-TPU-2-1020	PFab 1-Line 2 - Pre-commissioning	15	15	0% 27-Jan-23	10-Feb-23	17-Nov-22	01-Dec-22	-71		27-
Load out & Shipping		20	20	11-Feb-23	02-Mar-23	02-Dec-22	21-Dec-22	-71		
06-TPU-2-1030	PFab 1-Line 2 - Load out & ready to ship	20	20	0% 11-Feb-23	02-Mar-23		21-Dec-22	-71		
Delivery 06-TPU-2-1340	PFab 1-Line 2 - Delivery	10 10	10 10	03-Mar-23 0% 03-Mar-23	12-Mar-23 12-Mar-23		31-Dec-22 31-Dec-22	-71 -71		
PFab 1- Line 3	rrab i-Line 2 - Delivery	638	109	09-Mar-21 A	18-Apr-23		19-Feb-23	-58		
Structure Erection		135	27	14-Jan-22 A	26-Jan-23	18-Nov-22	30-Jan-23	4		
06-TPU-3-1080	PFab 1-Line 3 - 4th Floor(EL37.72m~EL47.22m) Primary & Secondary Steel Stru	12	5	58.33% 11-Jul-22 A	04-Jan-23	18-Nov-22		-43		PFab 1-Line 3 -
06-TPU-3-1090	PFab 1-Line 3 - Top Floor(EL47.22m~EL54.47m) Prim ary & Secondary Steel Stri	39	12	69.23% 03-Aug-22 A	11-Jan-23	24-Nov-22	05-Dec-22	-37		PFab 1
06-TPU-3-1100	PFab 1-Line 3 - Tertiary Structure Erection	90	27	70% 14-Jan-22 A	26-Jan-23	04-Jan-23	30-Jan-23	4		·
Mechanical Erection 06-TPU-3-1120	PFab 1-Line 3 - Mechanical Installation - 1st Floor (Below EL20.47m) (Including (	362 80	56 47	03-Mar-22 A 41.25% 03-Mar-22 A	24-Feb-23 15-Feb-23	03-Nov-22 29-Nov-22	14-Jan-23 14-Jan-23	-41 -32		····
06-TPU-3-1130	PFab 1-Line 3 - Mechanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Includ	80	56	30% 13-May-22 A	24-Feb-23	20-Nov-22	14-Jan-23	-41		
06-TPU-3-1140	PFab 1-Line 3 - Mechanical Installation - 3rd Floor( EL26.72m~EL37.72m) (Inclu	80	45	43.75% 17-Jun-22 A	24-Feb-23	01-Dec-22	14-Jan-23	-41		
06-TPU-3-1150	PFab 1-Line 3 - Mechanical Installation - 4th Floor(EL37.72m~EL47.22m) (Includ	56	56	0% 31-Dec-22*	24-Feb-23	20-Nov-22	14-Jan-23	-41	31-Dec-22*	
06-TPU-3-1240	PFab 1-Line 3 - Mechanical Installation - Boiler Lifting & Installation	80	33	58.75% 11-Aug-22 A	01-Feb-23	03-Nov-22	05-Dec-22	-58		
Piping Fabrication	DEsk 4 Line 0. Dising Eskylastics	180	6	09-Mar-21 A	05-Jan-23	03-Nov-22	08-Nov-22	-58		
06-TPU-3-1220	PFab 1-Line 3 - Piping Fabrication	180 119	6 24	96.67% 09-Mar-21 A 05-Oct-22 A	05-Jan-23 21-Feb-23		08-Nov-22 25-Dec-22	-58 -58		PFab 1-Line 3
Piping Installation 06-TPU-3-1000	PFab 1-Line 3 - Piping Installation	119	24	79.83% 05-Oct-22 A	21-Feb-23	02-Dec-22	25-Dec-22 25-Dec-22	-58		· · · · · · · · · · · · · · · · · · ·
E&I Installation	······································	74	74	02-Dec-22 A	14-Mar-23	03-Nov-22	15-Jan-23	-58		·
06-TPU-3-1250	PFab 1-Line 3 - E&I Support Installation	45	74	0% 02-Dec-22 A	14-Mar-23	03-Nov-22	15-Jan-23	-58		
06-TPU-3-1260	PFab 1-Line 3 - E&I Cable Ladder Erection	45	74	0% 02-Dec-22 A	14-Mar-23	03-Nov-22	15-Jan-23	-58		
	DEak 1 Line 2. Electrical Heat Tracing Installation (Installation by Vard)	26	26	17-Feb-23	14-Mar-23	21-Dec-22	15-Jan-23	-58		
06-TPU-3-1290 06-TPU-3-1330	PFab 1-Line 3 - Electrical Heat Tracing Installation (Installation by Yard) PFab 1-Line 3 - MCC room installation (Installation by Yard)	26 25	26 25	0% 17-Feb-23* 0% 18-Feb-23*	14-Mar-23 14-Mar-23	21-Dec-22 22-Dec-22	15-Jan-23 15-Jan-23	-58 -58		
		150	68	23-May-22 A	14-Mar-23	09-Nov-22		-58		
06-TPU-3-1010	PFab 1-Line 3 - Insulation	150	68	54.67% 23-May-22 A	14-Mar-23	09-Nov-22	15-Jan-23	-58		
Precommissioning		60	60	29-Jan-23	29-Mar-23	02-Dec-22	30-Jan-23	-58		
06-TPU-3-1020	PFab 1-Line 3 - Pre-commissioning	60	60	0% 29-Jan-23	29-Mar-23	02-Dec-22	30-Jan-23	-58		
Load out & Shipping 06-TPU-3-1030	PFab 1-Line 3 - Load out & ready to ship	20 20	20 20	30-Mar-23 0% 30-Mar-23	18-Apr-23 18-Apr-23	31-Jan-23 31-Jan-23	19-Feb-23 19-Feb-23	-58 -58		
PFab 1- Line 4		656	20 107	0% 30-Mar-23	16-Apr-23		06-Feb-23	-58		
		90	32	09-Mar-21 A 01-Apr-22 A	31-Jan-23	06-Jan-23	06-Feb-23	6		
Structure Erection		90	32	64.44% 01-Apr-22 A	31-Jan-23	06-Jan-23	06-Feb-23	6		
	PFab 1-Line 4 - Tertiary Structure Erection	50	02	• · · · · · · · · · · · · · · · · · · ·						

ct No. EP/SP/66/12	この 環境保護署
t Facilities, Phase 1	Environmental Protection Department
Feb 63	Mar 64
	nstallation in Yard), 10-Jan-23, 10-Jan-23, PF 1 Yard), 10-Jan-23, 10-Jan-23, PFab 1-Line 1
	06-Mar-23
	08-Mar-23, PFat
- Insulation, 10-Jan-23, 10-Jan-23, PF	ab 1-Line 1 - Insulation
22-Jan-23, PFab 1-Line 1 - Pre-comm	issioning
11-Feb-23, P	Fab 1-Line 1 - Load out & ready to ship
12-Feb-23	21-Feb-23, PFab 1-Line 1 - Delivery
PFab 1-Line 2 - Mechanical Install PFab 1-Line 2 - Mechanical Install	lation - 1st Floor (Below EL20.47m) (Including lation - 2nd Floor(EL20.47m~EL26.72m) (Incl lation - 3rd Floor( EL26.72m~EL37.72m) (Incl lechanical Installation - 4th Floor(EL37.72m~F
	13-Mar-23
	13-Mar-23 Electrical Heat Tracing Instal lation (Install atio installation (Installation by Yard), 30-Jan-23, 3
	17-Mar-23
	13-Mar-23 13-Mar-23 13-Mar-23
PFab 1-Line 2 - Insulation, 3	30-Jan-23, 30-Jan-23, PFab 1-Line 2 - Insulati
23 10-Feb-23, PF	ab 1-Line 2 - Pre-commissioning
11-Feb-23	02-Mar-23, PFab 1-Line 2 - Load q
03-	Mar-23 12-Mar-23, PFab 1-Li
3 - Top Floor(EL47.22m~EL54.47m) Pi	Secondary Steel Structure Erection, 04-Jan-2 rim ary & Secondary Steel Structure Erection, ry Structure Erection, PFab 1-Line 3 - Tertiary
	Line 3 - Mechanical Installation - 1st Floor (B PFab 1-Line 3 - Mechanical Installation - PFab 1-Line 3 - Mechanical Installation - 24-Feb-23, PFab 1-Line 3 - Mechanical In cal Installation - Boiler Lifting & Installation, 0
ng Fabrication, 05-Jan-23, 05-Jan-23, F	PFab 1-Line 3 - Piping Fabrication
	PFab 1-Line 3 - Piping Installation, 21-Feb-23
	PFab 1-Line 3 - E8 PFab 1-Line 3 - E8
17-Feb-23*	14-Mar-23, PFab 1 14-Mar-23, PFab 1
	PFab 1-Line 3 - Ins
an-23	
	30-Mar-23
31-Jan-23, PFab 1-Line 4 -	Tertiary Structure Erection, PFab 1-Line 4 - 1

KEPPEL SEGIERS - ZHEN HUAJOINT VE	Activity Name	Original	Remaining	Activity % Current Start	Current Finish	Late Start	Late Finish	Total Float M61 Remarks	Integrated Was	
	Puting Name	Original Duration	Duration	Activity % Current Start Complete	Gurrent Finish	Late Start	Laternish	lotal riter workers		Jan 62
06-TPU-4-1040	PFab 1-Line 4 - Mechanical Installation - 1st Floor (Below EL20.47m) (Including (	80	47	41.25% 09-Jan-22 A	15-Feb-23	15-Nov-22	31-Dec-22	-46		
06-TPU-4-1050	PFab 1-Line 4 - Mechanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Includ	80	68	15% 21-Feb-22 A	08-Mar-23	25-Oct-22	31-Dec-22	-67		
06-TPU-4-1060	PFab 1-Line 4 - Mechanical Installation - 3rd Floor( EL26.72m~EL37.72m) (Inclu	80	60	25% 06-May-22 A	08-Mar-23	02-Nov-22	31-Dec-22	-67		
06-TPU-4-1070	PFab 1-Line 4 - Mechanical Installation - 4th Floor(EL37.72m~EL47.22m) (Includ	70	70	0% 31-Dec-22	10-Mar-23	23-Oct-22	31-Dec-22	-69	31-Dec-22	
06-TPU-4-1240	PFab 1-Line 4 - Mechanical Installation - Boiler Lifting & Installation	108	51	52.78% 05-Jul-22 A	19-Feb-23	24-Oct-22	13-Dec-22	-68		
Piping Fabrication 06-TPU-4-1220	PFab 1-Line 4 - Piping Fabrication	180 180	25 25	09-Mar-21 A 86.11% 09-Mar-21 A	24-Jan-23 24-Jan-23	28-Oct-22 28-Oct-22	21-Nov-22 21-Nov-22	-64 -64		1 1 7
Piping Installation		62	25	02-Dec-22 A	24-Jan-23	12-Jan-23	12-Jan-23	-69		
06-TPU-4-1000	PFab 1-Line 4 - Piping Installation	62	1	98.39% 02-Dec-22 A	22-Mar-23	12-Jan-23	12-Jan-23	-69		
E&I Installation		92	92	31-Dec-22	01-Apr-23	02-Dec-22	22-Jan-23	-69		
06-TPU-4-1250	PFab 1-Line 4 - E&I Support Installation	45	45	0% 31-Dec-22*	13-Feb-23	02-Dec-22	15-Jan-23	-29	31-Dec-22*	
06-TPU-4-1260	PFab 1-Line 4 - E&I Cable Ladder Erection	45	45	0% 07-Jan-23	20-Feb-23	09-Dec-22	22-Jan-23	-29	07	Jan-23
Electrical 06-TPU-4-1290	PFab 1-Line 4 - Electrical Heat Tracing Installation (Installation by Yard)	26 26	26 26	07-Mar-23 0% 07-Mar-23*	01-Apr-23 01-Apr-23	28-Dec-22 28-Dec-22		-69 -69		1
06-TPU-4-1290	PFab 1-Line 4 - Electrical real fracing installation (installation by Yard) PFab 1-Line 4 - MCC room installation (Installation by Yard)	26	20	0% 07-Mar-23 0% 08-Mar-23*	01-Apr-23	28-Dec-22 29-Dec-22	22-Jan-23	-69		}
Insulation		150	87	25-May-22 A	01-Apr-23	28-Oct-22	22-Jan-23	-69		
06-TPU-4-1010	PFab 1-Line 4 - Insulation	150	87	42% 25-May-22 A	01-Apr-23	28-Oct-22	22-Jan-23	-69		
Precommissioning		60	60	16-Feb-23	16-Apr-23	09-Dec-22		-69		
06-TPU-4-1020	PFab 1-Line 4 - Pre-commissioning	60	60	0% 16-Feb-23	16-Apr-23	09-Dec-22		-69		
PFab 1- Line 5		676	153	23-Mar-21 A	01-Jun-23	_	07-Apr-23	-55		
Structure Erection 06-TPU-5-1110	PFab 1-Line 5 - 2nd Floor(EL20.47m ~EL26.72m) Primary & Secondary Steel Str	390 60	102 11	14-Jan-22 A 81.67% 12-Mar-22 A	11-Apr-23 10-Jan-23	07-Nov-22 07-Nov-22	07-Apr-23 17-Nov-22	-4 -54		PEab
06-TPU-5-1120	PFab 1-Line 5 - 2rd Floor(EL20.72m ~EL20.72m)Primary & Secondary Steel Str PFab 1-Line 5 - 3rd Floor(EL20.72m ~EL37.72m)Primary & Secondary Steel Str	60	60	0% 02-Dec-22 A	28-Feb-23	07-Nov-22	05-Jan-23	-54		
06-TPU-5-1130	PFab 1-Line 5 - 4th Floor(EL37.72m~EL47.22m) Primary & Secondary Steel Stru	60	60	0% 16-Dec-22 A	02-Apr-23	10-Dec-22	07-Feb-23	-54	A, 16-Dec-22 A	
06-TPU-5-1150	PFab 1-Line 5 - Tertiary Structure Erection	90	69	23.33% 14-Jan-22 A	11-Apr-23	29-Jan-23	07-Apr-23	-4		
Mechanical Erection		419	113	02-Mar-22 A	22-Apr-23	03-Dec-22	01-Mar-23	-52		
06-TPU-5-1040	PFab 1-Line 5 - Mechanical Installation - 1st Floor (Below EL20.47m) (Including (	80	51	36.25% 02-Mar-22 A	19-Feb-23	10-Jan-23	01-Mar-23	10		
06-TPU-5-1050	PFab 1-Line 5 - Mechanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Inclu	80	80	0% 19-Jan-23*	08-Apr-23	12-Dec-22	01-Mar-23	-38		19-Jan-23*
06-TPU-5-1060	PFab 1-Line 5 - Mechanical Installation - 3rd Floor(EL26.72m~EL37.72m) (Inclu	80	80	0% 19-Jan-23	08-Apr-23	12-Dec-22	01-Mar-23	-38		19-Jan-23
06-TPU-5-1070	PFab 1-Line 5 - Mechanical Installation - 4th Floor(EL37.72m~EL47.22m) (Includ	80	80	0% 02-Feb-23	22-Apr-23	12-Dec-22		-52		
06-TPU-5-1240	PFab 1-Line 5 - Mechanical Installation - Boiler Lifting & Installation	80 180	80 14	0% 26-Jan-23* 23-Mar-21 A	16-Apr-23 13-Jan-23	03-Dec-22 22-Oct-22	20-Feb-23 04-Nov-22	-54 -70		26
Piping Fabrication 06-TPU-5-1220	PFab 1-Line 5 - Piping Fabrication	180	14	92.22% 23-Mar-21 A	13-Jan-23	22-Oct-22 22-Oct-22	04-Nov-22 04-Nov-22	-70		PF
Piping Installation		121	121	16-Jan-23	16-May-23	07-Nov-22	07-Mar-23	-70		
06-TPU-5-1000	PFab 1-Line 5 - Piping Installation	121	121	0% 16-Jan-23	16-May-23	07-Nov-22	07-Mar-23	-70		16-Jan-23 📕
E&I Installation		52	52	22-Feb-23	14-Apr-23	31-Jan-23	23-Mar-23	-22		
06-TPU-5-1250	PFab 1-Line 5 - E&I Support Installation	45	45	0% 22-Feb-23*	07-Apr-23	31-Jan-23	16-Mar-23	-22		
06-TPU-5-1260	PFab 1-Line 5 - E&I Cable Ladder Erection	45	45	0% 01-Mar-23	14-Apr-23	07-Feb-23	23-Mar-23	-22		
Insulation 06-TPU-5-1010	PFab 1-Line 5 - Insulation	150 150	143 143	04-Jun-22 A 4.67% 04-Jun-22 A	01-Jun-23 01-Jun-23	01-Nov-22 01-Nov-22		-70 -70		
PFab 1- Line 6		641	143	23-Mar-21 A	07-Jun-23	19-Nov-22		-54		
Structure Erection		329	84	08-Apr-22 A		25-Nov-22		21		
06-TPU-6-1110	PFab 1-Line 6 - 2nd Floor(EL20.47m~EL26.72m) Primary & Secondary Steel Str	60	28	53.33% 08-Apr-22 A	27-Jan-23	25-Nov-22	22-Dec-22	-36		
06-TPU-6-1120	PFab 1-Line 6 - 3rd Floor( EL26.72m~EL37.72m)Primary & Secondary Steel Stru	45	23	48.89% 24-Jun-22 A	06-Feb-23	10-Dec-22	01-Jan-23	-36		
06-TPU-6-1130	PFab 1-Line 6 - 4th Floor(EL37.72m~EL47.22m) Primary & Secondary Steel Stru	30	15	50% 02-Sep-22 A	22-Feb-23	03-Jan-23	17-Jan-23	-36		
06-TPU-6-1140	PFab 1-Line 6 - Top Floor(EL47.22m~EL54.47m) Prim ary & Secondary Steel Stri	30	30	0% 23-Feb-23	24-Mar-23	28-Jan-23	26-Feb-23	-26		
06-TPU-6-1150	PFab 1-Line 6 - Tertiary Structure Erection	144	59	59.03% 15-Apr-22 A	27-Feb-23	15-Feb-23		46		
Mechanical Erection 06-TPU-6-1160	PEah 1-1 ine 6 - Mechanical Installation 1 at Eleon (Polow EL 00.47m) (Inclusion 1	392 80	94 59	03-Mar-22 A	03-Apr-23		26-Feb-23	-36 -35		<u>.</u>
06-TPU-6-1170	PFab 1-Line 6 - Mechanical Installation - 1st Floor (Below EL20.47m) (Including ( PFab 1-Line 6 - Mechanical Installation - 2nd Floor(EL20.47m~EL26.72m) (Including)	80 80	59 60	26.25% 03-Mar-22 A 25% 20-May-22 A	27-Feb-23 28-Feb-23	26-Nov-22 26-Nov-22		-35		
06-TPU-6-1180	PFab 1-Line 6 - Mechanical Installation - 3rd Floor(EL20.72m~EL37.72m) (Inclu	80	70	12.5% 19-Aug-22 A	10-Mar-23	26-Nov-22 26-Nov-22	03-Feb-23	-35		J
06-TPU-6-1190	PFab 1-Line 6 - Mechanical Installation - dth Floor(EL37.72m~EL47.22m) (Includ	80	80	0% 06-Jan-23*	26-Mar-23		19-Feb-23	-35	06-Ja	
06-TPU-6-1240	PFab 1-Line 6 - Mechanical Installation - Boiler Lifting & Installation	80	54	32.5% 15-Nov-22 A	03-Apr-23		26-Feb-23	-36		
Piping Fabrication		180	22	23-Mar-21 A	21-Jan-23	22-Nov-22	13-Dec-22	-39		
06-TPU-6-1220	PFab 1-Line 6 - Piping Fabrication	180	22	87.78% 23-Mar-21 A	21-Jan-23		13-Dec-22	-39		
Piping Installation	DE-h 4 Line 0. Divise herbill "	90	90	22-Jan-23	21-Apr-23	14-Dec-22		-39		
06-TPU-6-1000	PFab 1-Line 6 - Piping Installation	90	90	0% 22-Jan-23	21-Apr-23		13-Mar-23	-39		22-Ja
Insulation 06-TPU-6-1010	PFab 1-Line 6 - Insulation	150 150	132 132	08-Jul-22 A 12% 08-Jul-22 A	07-Jun-23 07-Jun-23	19-Nov-22 19-Nov-22	30-Mar-23 30-Mar-23	-69 -69		j
abrication of Module (FGC)		699	132					-69		}
PFab 2 - Line 1		628	99	29-May-21 A	08-Apr-23	01-Nov-22		-60		
Structure Erection		80	10	01-Sep-22 A	09-Jan-23	29-Jan-23		29		·····
06-FGC-1-1060	PFab 2-Line 1 - Tertiary Structure Erection	80	10	87.5% 01-Sep-22 A	09-Jan-23	29-Jan-23		29		09-Jai
Mechanical Erection		256	39	07-Jan-22 A	07-Feb-23	01-Nov-22		-60		<u> </u>
06-FGC-1-1070	PFab 2-Line 1 - 1st Floor (Below EL12.47m) (Including Silencer ID fan)	60 60	39	35% 07-Jan-22 A	07-Feb-23	01-Nov-22		-60		
00 E00 4 4000		60	34	43.33% 04-Mar-22 A	07-Feb-23	06-Nov-22	09-Dec-22	-60		
06-FGC-1-1080 06-FGC-1-1090	PFab 2-Line 1 - 2nd Floor (EL12.47~ EL23.47m) (Including Dosing system bicar) PFab 2-Line 1 - 3rd Floor (EL23.47~ EL34.47m) (Including Ash and residue to sol	60	18	70% 06-May-22 A	07-Feb-23		09-Dec-22	-60		

# 3-Month Rolling Programme (December 2022)

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Remaining Work Actual Work Critical Remaining Work  $\diamond$ 

Actual Milestone

 Critical Milestone ٠

ract No. EP/SP/66/12 - 環境保護署 nt Facilities, Phase 1 PFab 1-Line 4 - Mechanical Installation - 1st Floor ( PFab 1-Line 4 - Mechani PFab 1-Line 4 - Mechanic 10-Mar-23, PFab 1-Line PFab 1-Line 4 - Mechanical Installation - Boiler PFab 1-Line 4 - Piping Fabrication, 24-Jan-23, 24-Jan-23, PFab 1-Line 4 - Piping PFab 1 13-Feb-23, PFab 1-Line 4 - E&I Support Installation 20-Feb-23, PFab 1-Line 4 - E&I Cable Ladder 07-Mar-23\* 08-Mar-23\* 16-Feb-23 5 - 2nd Floor(EL20.47m~EL26.72m) Primary & Secondary Steel Structure Erection, PFab 1-Line 5 - 3rd Floor( EL26.72n 19-Feb-23, PFab 1-Line 5 - Mechanical Installa 02-Feb-23 23\* Line 5 - Piping Fabrication, 13-Jan-23, 13-Jan-23, PFab 1-Line 5 - Piping Fabrication 22-Feb-23\* 01-Mar-23 PFab 1-Line 6 - 2nd Floor(EL20.47m~EL26.72m) Primary & Secondary Ste PFab 1-Line 6 - 3rd Floor(EL26.72m~EL37.72m)Primary & Se PFab 1-Line 6 - 4th Floor(EL37.72m~EL47. 23-Feb-23 24-Ma 27-Feb-23, PFab 1-Line 6 - Tertiary S PFab 1-Line 6 - Mechanical Installati PFab 1-Line 6 - Mechanical Installat PFab 1-Line 6 - Mechai 26 PFab 1-Line 6 - Piping Fabrication, 21-Jan-23, 21-Jan-23, PFab 1-Line 6 - Piping F Fab 2-Line 1 - Tertiary Structure Erection, PFab 2-Line 1 - Tertiary Structure Erection, PFab 2-Line 1 - 1st Floor (Below EL12.47m) (Including Silence PFab 2-Line 1 - 2nd Floor (EL12.47~ EL23.47m) (Including Do PFab 2-Line 1 - 3rd Floor (EL23.47~ EL34.47m) (Including As h PFab 2-Line 1 - 4th Floor (EL34.47~ EL44.22m) (Including Ure

	Activity Name	Original Duration	Remaining Duration	Activity % Current Start Complete	Current Finish	Late Start	Late Finish	Total Float M61 Remarks	Integrated Wast	
Distan Estatestica		100	10		10 lan 00	01-Nov-22	13-Nov-22	-60	61	
Piping Fabrication 06-FGC-1-1210	PFab 2-Line 1 - Piping Fabrication	180 180	13 13	29-May-21 A 92.78% 29-May-21 A	12-Jan-23 12-Jan-23	01-Nov-22 01-Nov-22	13-Nov-22	-60		
Piping Installation		150	44	05-Aug-22 A	12-Feb-23	01-Nov-22	14-Dec-22	-60		
06-FGC-1-1120	PFab 2-Line 1 - Piping Installation	150	44	70.67% 05-Aug-22 A	12-Feb-23	01-Nov-22	14-Dec-22	-60		<u>.</u>
E&I Installation		54	54	02-Dec-22 A	22-Feb-23	01-Nov-22	24-Dec-22	-60		
06-FGC-1-1230	PFab 2-Line 1 - E&I Support Installation	45	47	0% 02-Dec-22 A	15-Feb-23	01-Nov-22	17-Dec-22	-60		
06-FGC-1-1240	PFab 2-Line 1 - E&I Cable Ladder Erection	45	54	0% 02-Dec-22 A	22-Feb-23	01-Nov-22	24-Dec-22	-60		1
Electrical		54	54	16-Dec-22 A	22-Feb-23	01-Nov-22	24-Dec-22	-60		}
06-FGC-1-1270	PFab 2-Line 1 - Electrical Heat Tracing Installation (Installation by Yard)	26	54	0% 16-Dec-22 A	22-Feb-23	01-Nov-22	24-Dec-22	-60	A, 16-Dec-22A	
06-FGC-1-1310	PFab 2-Line 1 - MCC room installation (Installation by Yard)	38	38	0% 16-Jan-23*	22-Feb-23	17-Nov-22	24-Dec-22	-60		16-Jan-23
Insulation		150	54	25-May-22 A	22-Feb-23	01-Nov-22	24-Dec-22	-60		
06-FGC-1-1130	PFab 2-Line 1 - Insulation	150	54	63.95% 25-May-22 A	22-Feb-23	01-Nov-22		-60		
Precommissioning		60	60	09-Jan-23	09-Mar-23	10-Nov-22	08-Jan-23	-60		
06-FGC-1-1190	PFab 2-Line 1 - Pre-commissioning	60	60	0% 09-Jan-23	09-Mar-23	10-Nov-22	08-Jan-23	-60		9-Jan-23
Load out & Shipping 06-FGC-1-1200	PFab 2-Line 1 - Load Out & ready to ship	20 20	20 20	10-Mar-23 0% 10-Mar-23	29-Mar-23 29-Mar-23	09-Jan-23 09-Jan-23	28-Jan-23 28-Jan-23	-60 -60		
	P Pab 2-Lille T - Load Out & Teady to Ship	10	20	30-Mar-23	08-Apr-23	29-Jan-23	07-Feb-23	-60		÷
Delivery 06-FGC-1-1320	PFab 2-Line 1 - Delivery	10	10	0% 30-Mar-23	08-Apr-23	29-Jan-23	07-Feb-23	-60		÷
Fab 2 - Line 2		699	99	03-Jun-21 A	08-Apr-23	08-Nov-22		-53		
Structure Erection		90	15		14-Jan-23	11-Jan-23	26-Jan-23	11		
06-FGC-2-1110	PFab 2-Line 2 - Tertiary Structure Erection	90	15		14-Jan-23	11-Jan-23	26-Jan-23	11		
Mechanical Erection		272	34	02-Jan-22 A	02-Feb-23	08-Nov-22	12-Dec-22	-53		
06-FGC-2-1120	PFab 2-Line 2 - 1st Floor (Below EL12.47m) (Including Silencer ID fan)	60	34	43.33% 02-Jan-22 A	02-Feb-23	08-Nov-22	12-Dec-22	-53		
06-FGC-2-1130	PFab 2-Line 2 - 2nd Floor (EL12.47~ EL23.47m) (Including Dosing system bicar)	60	34	43.33% 25-Feb-22 A	02-Feb-23	08-Nov-22	12-Dec-22	-53		
06-FGC-2-1140	PFab 2-Line 2 - 3rd Floor (EL23.47~ EL34.47m) (Including As h and residue to sol	60	34	43.33% 06-May-22 A	02-Feb-23	08-Nov-22	12-Dec-22	-53		
06-FGC-2-1150	PFab 2-Line 2 - 4th Floor (EL34.47~ EL44.22m) (Including Urea to ammonia conv	50	34	32% 03-Jun-22 A	02-Feb-23	08-Nov-22	12-Dec-22	-53		
Piping Fabrication		180	33	03-Jun-21 A	01-Feb-23	08-Nov-22	11-Dec-22	-53		
06-FGC-2-1210	PFab 2-Line 2 - Piping Fabrication	180	33	81.67% 03-Jun-21 A	01-Feb-23	08-Nov-22	11-Dec-22	-53		
Piping Installation		150	49	12-Aug-22 A	17-Feb-23	08-Nov-22	27-Dec-22	-53		<u></u>
06-FGC-2-1000	PFab 2-Line 2 - Piping Installation	150	49	67.31% 12-Aug-22 A	17-Feb-23	08-Nov-22	27-Dec-22	-53		
E&I Installation		59	59	02-Dec-22 A	27-Feb-23	08-Nov-22	06-Jan-23	-53		<u> </u>
06-FGC-2-1230	PFab 2-Line 2 - E&I Support Installation	45	59	0% 02-Dec-22 A	27-Feb-23	08-Nov-22	06-Jan-23	-53		
06-FGC-2-1240	PFab 2-Line 2 - E&I Cable Ladder Erection	45	59	0% 02-Dec-22 A	27-Feb-23	08-Nov-22	06-Jan-23	-53		
Electrical 06-FGC-2-1270	PFab 2-Line 2 - Electrical Heat Tracing Installation (Installation by Yard)	26 26	26 26	02-Feb-23 0% 02-Feb-23*	27-Feb-23 27-Feb-23	11-Dec-22 11-Dec-22	06-Jan-23 06-Jan-23	-53		+
06-FGC-2-1270	PFab 2-Line 2 - Electrical Heat fracing installation (installation by Yard) PFab 2-Line 2 - MCC room installation (Installation by Yard)	26	26	0% 02-Feb-23 0% 03-Feb-23*	27-Feb-23 27-Feb-23	12-Dec-22		-53 -53		
Insulation		150	54	25-May-22 A	27-Feb-23	12-Dec-22 13-Nov-22	06-Jan-23			+
06-FGC-2-1010	PFab 2-Line 2 - Insulation	150	54	64% 25-May-22 A	27-Feb-23	13-Nov-22	06-Jan-23	-53 -53		·····
Precommissioning		60	60	09-Jan-23	09-Mar-23	17-Nov-22	16-Jan-23	-53		+
06-FGC-2-1020	PFab 2-Line 2 - Pre-commissioning	60	60	0% 09-Jan-23	09-Mar-23		16-Jan-23	-53	0	9-Jan-23
Load out & Shipping		20	20	10-Mar-23	29-Mar-23	16-Jan-23	05-Feb-23	-53		
06-FGC-2-1030	PFab 2-Line 2 - Load Out & ready to ship	20	20	0% 10-Mar-23	29-Mar-23	16-Jan-23	05-Feb-23	-53		
Delivery		10	10	30-Mar-23	08-Apr-23	05-Feb-23	14-Feb-23	-53		;
06-FGC-2-1320	PFab 2-Line 2 - Delivery	10	10	0% 30-Mar-23	08-Apr-23	05-Feb-23	14-Feb-23	-53		
Fab 2 - Line 3		633	104	03-Jun-21 A	13-Apr-23	03-Dec-22	16-Mar-23	-28		1
Structure Erection		60	16	01-Sep-22 A	15-Jan-23	01-Mar-23		60		<u>.</u>
06-FGC-3-1100	PFab 2-Line 3 - Tertiary Structure Erection	60	16	· · ·	15-Jan-23		16-Mar-23	60		
Mechanical Erection		303	43	02-Jan-22 A	11-Feb-23	03-Dec-22		-28		<u> </u>
06-FGC-3-1000	PFab 2-Line 3 - 1st Floor (Below EL12.47m) (Including Silencer ID fan)	60	43	28.33% 02-Jan-22 A	11-Feb-23	03-Dec-22		-28		
06-FGC-3-1010	PFab 2-Line 3 - 2nd Floor (EL12.47~ EL23.47m) (Including Dosing system bicar)	60	43	28.33% 10-Mar-22 A	11-Feb-23	03-Dec-22	14-Jan-23	-28		
06-FGC-3-1020	PFab 2-Line 3 - 3rd Floor (EL23.47~ EL34.47m) (Including Ash and residue to so	60	43	28.33% 01-Sep-22 A	11-Feb-23	03-Dec-22	14-Jan-23	-28		
06-FGC-3-1030	PFab 2-Line 3 - 4th Floor (EL34.47~ EL44.22m) (Including Urea to ammonia con	50	43	14% 10-Sep-22 A	11-Feb-23	03-Dec-22	14-Jan-23	-28		
Piping Fabrication 06-FGC-3-1210	PFab 2-Line 3 - Piping Fabrication	180 180	49 49	03-Jun-21 A 72.78% 03-Jun-21 A	17-Feb-23 17-Feb-23	03-Dec-22 03-Dec-22		-28 -28		1
		77	49 77	72.78% 03-Jun-21 A 02-Dec-22 A	17-Feb-23 19-Mar-23	03-Dec-22 05-Dec-22	20-Jan-23 19-Feb-23	-28		
Piping Installation 06-FGC-3-1150	PFab 2-Line 3 - Piping Installation	77	77	02-Dec-22 A	19-Mar-23	05-Dec-22 05-Dec-22		-28		
E&I Installation		52	52	09-Feb-23	01-Apr-23	12-Jan-23	04-Mar-23	-28		
06-FGC-3-1230	PFab 2-Line 3 - E&I Support Installation	45	45	0% 09-Feb-23*	25-Mar-23	12-Jan-23	25-Feb-23	-28		;
06-FGC-3-1240	PFab 2-Line 3 - E&I Cable Ladder Erection	45	45	0% 16-Feb-23	01-Apr-23	19-Jan-23	04-Mar-23	-28		
Electrical		26	26	07-Mar-23	01-Apr-23	07-Feb-23	04-Mar-23	-28		
06-FGC-3-1270	PFab 2-Line 3 - Electrical Heat Tracing Installation (Installation by Yard)	26	26	0% 07-Mar-23*	01-Apr-23	07-Feb-23	04-Mar-23	-28		
06-FGC-3-1310	PFab 2-Line 3 - MCC room installation (Installation by Yard)	25	25	0% 08-Mar-23*	01-Apr-23		04-Mar-23	-28		1
Insulation		92	92	31-Dec-22	01-Apr-23	03-Dec-22	04-Mar-23	-28		
06-FGC-3-1170	PFab 2-Line 3 - Insulation	92	92	0% 31-Dec-22	01-Apr-23	03-Dec-22	04-Mar-23	-28	31-Dec-22	
Precommissioning		60	60	13-Feb-23	13-Apr-23	16-Jan-23	16-Mar-23	-28		
06-FGC-3-1180	PFab 2-Line 3 - Pre-commissioning	60	60	0% 13-Feb-23	13-Apr-23	16-Jan-23	16-Mar-23	-28		
Fab 2 - Line 4		653	104	09-Jun-21 A	13-Apr-23	10-Dec-22	23-Mar-23	-21		]
Structure Erection		250	43	12-Mar-22 A	11-Feb-23	16-Dec-22		40		
06-FGC-4-1120	PFab 2-Line 4 - 4th Floor (EL34.47~ EL44.22m) Primary & Secondary Steel Strue	60	20	66.67% 12-Mar-22 A	19-Jan-23	16-Dec-22	04 Jan 22	-15		

3-Month Rolling Programme	e (December 2022)
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Remaining Work Actual Work

Critical Milestone

Critical Remaining Work

	ities, Phase 1	I	Mar
	63		64
1 - Piping	Fabrication, 12-Jan-23, 12	-Jan-23, PFab 2-L	ine 1 - Piping Fabrication
	PFab 2-Lir	ne 1 - Piping Instal	lation, 12-Feb-23, 12-Feb-2
	PFab 2		port Installation, 15-Feb-23, E&I Cable Ladder Erection
			Electrical Heat Tracing Inst b 2-Line 1 - MCC room inst
		PFab 2-Line 1 -	Insulation, 22-Feb-23, 22-F
			09-Mar-23, PFab 2-Line
		10-Mar-23	
			30-Mar-23
, PFab 2-L	ine 2 - Tertiary Structure Er	rection, PFab 2-Lir	ne 2 - Tertiary Structure Ere
	PFab 2-Line 2 - 2nd Flo PFab 2-Line 2 - 3rd Flo	oor (EL12.47~ EL2 or (EL23.47~ EL3	m) (Including Silencer ID f 3.47m) (Including Dosing s 4.47m) (Including Ash and r 4.22m) (Including Urea to ar
	PFab 2-Line 2 - Piping F	abrication, 01-Feb	0-23, 01-Feb-23, PFab 2-Lin
	PFa	b 2-Line 2 - Piping	Installation, 17-Feb-23, 17
			ne 2 - E&I Support Installat ne 2 - E&I Cable Ladder Er
-Feb-23* 3-Feb-23*			3, PFab 2-Line 2 - Electrica 3, PFab 2-Line 2 - MCC rooi
		PFab 2-Li	ne 2 - Insulation, 27-Feb-23
			09-Mar-23, PFab 2-Line
		10-Mar-23	
			30-Mar-23 I
3, PFab 2	Line 3 - Tertiary Structure I	Erection, PFab 2-L	ine 3 - Tertiary Structure Er
	PFab 2-Line PFab 2-Line	e 3 - 2nd Floor (EL e 3 - 3rd Floor (EL	ow EL12.47m) (Including S 12.47~ EL23.47m) (Includin 23.47~ EL34.47m) (Includin 34.47~ EL44.22m) (Includin
	PFa	b 2-Line 3 - Piping	Fabrication, 17-Feb-23, 17
			25-N
	16-Feb-23		
		08-Mar-23*	
	13-Feb-23		
b 2 Line 4	Ath Floor /FI 24 47-, FI 4	4 00m) Drimory 9	Sacandary Steel Structure
		T.ZZIII / FIIIIaly &	Secondary Steel Structure

	Activity Name	Original Duration	Remaining Duration	Activity % Complete	Current Start	Current Finish	Late Start	Late Finish	Total Float M61 Remarks	2022 Dec	
06-FGC-4-1130	PFab 2-Line 4 - Top Floor Primary & Secondary Steel Structure Erection	60	38	36.67%	08-Sep-22 A	06-Feb-23	09-Feb-23	18-Mar-23	40	61	
06-FGC-4-1140	PFab 2-Line 4 - Tertiary Structure Erection	90	27		14-Sep-22 A	11-Feb-23	25-Feb-23	23-Mar-23	40		
Mechanical Erection		263	36		24-Dec-21 A	04-Feb-23	10-Dec-22	14-Jan-23	-21		
06-FGC-4-1040	PFab 2-Line 4 - 1st Floor (Below EL12.47m) (Including Silencer ID fan)	60	36		24-Dec-21 A	04-Feb-23	10-Dec-22	14-Jan-23	-21		
06-FGC-4-1050	PFab 2-Line 4 - 2nd Floor (EL12.47~ EL23.47m) (Including Dosing system bicar)	60	36		04-Feb-22 A	04-Feb-23	10-Dec-22		-21		
06-FGC-4-1060	PFab 2-Line 4 - 3rd Floor (EL23.47~ EL34.47m) (Including As h and residue to sol	60	35		11-Feb-22 A	04-Feb-23	11-Dec-22	14-Jan-23	-21		
06-FGC-4-1070	PFab 2-Line 4 - 4th Floor (EL34.47~ EL44.22m) (Including Urea to ammonia conv	60	36		06-May-22 A	04-Feb-23	10-Dec-22	14-Jan-23	-21		
Piping Fabrication O6-FGC-4-1210	PFab 2-Line 4 - Piping Fabrication	180 180	71 71		09-Jun-21 A 09-Jun-21 A	11-Mar-23 11-Mar-23	10-Dec-22 10-Dec-22		-21 -21		
Piping Installation		57	57		21-Jan-23	18-Mar-23	31-Dec-22		-21		
06-FGC-4-1000	PFab 2-Line 4 - Piping Installation	57	57		21-Jan-23*	18-Mar-23	31-Dec-22		-21		21-Ja
E&I Fabrication		180	50		14-Apr-22 A	18-Feb-23	19-Jan-23	09-Mar-23	19		
06-FGC-4-1220	PFab 2-Line 4 - E&I Fabrication	180	50	72.22%	14-Apr-22 A	18-Feb-23	19-Jan-23	09-Mar-23	19	· · · · · · · · · · · · · · · · · · ·	
E&I Installation		52	52		09-Feb-23	01-Apr-23	19-Jan-23	11-Mar-23	-21		
06-FGC-4-1230	PFab 2-Line 4 - E&I Support Installation	45	45		09-Feb-23*	25-Mar-23	19-Jan-23	04-Mar-23	-21		
06-FGC-4-1240	PFab 2-Line 4 - E&I Cable Ladder Erection	45	45		16-Feb-23	01-Apr-23	26-Jan-23	11-Mar-23	-21		
Electrical 06-FGC-4-1270	PFab 2-Line 4 - Electrical Heat Tracing Installation (Installation by Yard)	26 26	26 26		07-Mar-23 07-Mar-23*	01-Apr-23 01-Apr-23	14-Feb-23 14-Feb-23	11-Mar-23 11-Mar-23	-21 -21		
06-FGC-4-1310	PFab 2-Line 4 - MCC room installation (Installation by Yard)	25	25		08-Mar-23*	01-Apr-23	15-Feb-23	11-Mar-23	-21		
Insulation		150	3		25-May-22 A	01-Apr-23	09-Mar-23	11-Mar-23	-21		
06-FGC-4-1010	PFab 2-Line 4 - Insulation	150	3	98%	25-May-22 A	01-Apr-23	09-Mar-23	11-Mar-23	-21		
Precommissioning		60	60		13-Feb-23	13-Apr-23	23-Jan-23	23-Mar-23	-21		
06-FGC-4-1020	PFab 2-Line 4 - Pre-commissioning	60	60		13-Feb-23	13-Apr-23		23-Mar-23	-21		
PFab 2 - Line 5		682	134		18-Jun-21 A	13-May-23	01-Dec-22		51		
Structure Erection 06-FGC-5-1070	PFab 2-Line 5 - 3rd Floor(EL23.47~ EL34.47m) Primary & Secondary Steel Struc	268 60	75 5		20-Apr-22 A 20-Apr-22 A	15-Mar-23 04-Jan-23	01-Dec-22 01-Dec-22	22-May-23 05-Dec-22	68 -30		PFab 2-Li
06-FGC-5-1080	PFab 2-Line 5 - 4th Floor (EL34.47~ EL44.22m) Primary & Secondary Steel Stru	60	15		20-Api-22 A 20-May-22 A	14-Jan-23	01-Dec-22 01-Dec-22	15-Dec-22	-30		Frauz-Li
06-FGC-5-1090	PFab 2-Line 5 - Top Floor Primary & Secondary Steel Structure Erection	60	60		15-Jan-23	15-Mar-23	01-Jan-23	01-Mar-23	-14		15-Jan-23
06-FGC-5-1100	PFab 2-Line 5 - Tertiary Structure Erection	90	18		12-Sep-22 A	17-Jan-23	05-May-23	22-May-23	125		10 0411 20
Mechanical Erection		353	91		21-Jan-22 A	31-Mar-23	01-Dec-22		-30		
06-FGC-5-1000	PFab 2-Line 5 - 1st Floor (Below EL12.47m) (Including Silencer ID fan)	60	91		21-Jan-22 A	31-Mar-23	01-Dec-22		-30		
06-FGC-5-1010	PFab 2-Line 5 - 2nd Floor (EL12.47~ EL23.47m) (Including Dosing system bicar)	60	84	0%	24-Jun-22 A	31-Mar-23	08-Dec-22	01-Mar-23	-30		
06-FGC-5-1020	PFab 2-Line 5 - 3rd Floor (EL23.47~ EL34.47m) (Including Ash and residue to sol	60	86	0%	19-Sep-22 A	31-Mar-23	06-Dec-22	01-Mar-23	-30		
06-FGC-5-1030	PFab 2-Line 5 - 4th Floor (EL34.47~ EL44.22m) (Including Urea to ammonia conv	50	76	0%	07-Oct-22 A	31-Mar-23	16-Dec-22	01-Mar-23	-30		
Piping Fabrication		180	106		18-Jun-21 A	15-Apr-23	01-Dec-22		-30		
06-FGC-5-1170	PFab 2-Line 5 - Piping Fabrication	180	106		18-Jun-21 A	15-Apr-23	01-Dec-22		-30		
Piping Installation 06-FGC-5-1190	PFab 2-Line 5 - Piping Installation	121 121	121 121		31-Dec-22 31-Dec-22*	30-Apr-23 30-Apr-23	01-Dec-22 01-Dec-22		-30 -30	31-Dec-22*	
E&I Fabrication		121	134		14-Apr-22 A	13-May-23	20-Feb-23	03-Jul-23	51	31-Dec-22	
06-FGC-5-1180	PFab 2-Line 5 - E&I Fabrication	180	134		14-Apr-22 A	13-May-23	20-Feb-23	03-Jul-23	51	۵. ۱۹ ۱۹	
E&I Installation		52	52		22-Mar-23	12-May-23	20-Feb-23	12-Apr-23	-30		
06-FGC-5-1230	PFab 2-Line 5 - E&I Support Installation	45	45	0%	22-Mar-23*	05-May-23	20-Feb-23	05-Apr-23	-30		
06-FGC-5-1240	PFab 2-Line 5 - E&I Cable Ladder Erection	45	45	0%	29-Mar-23	12-May-23	27-Feb-23	12-Apr-23	-30		
Insulation		150	133		30-Jun-22 A	12-May-23	01-Dec-22	· · · ·	-30		
06-FGC-5-1200	PFab 2-Line 5 - Insulation	150	133		30-Jun-22 A	12-May-23	01-Dec-22		-30		
PFab 2 - Line 6 Structure Erection		576 236	150 85		30-Sep-21 A 20-May-22 A	29-May-23 25-Mar-23	08-Dec-22 09-Dec-22		22 15		
06-FGC-6-1140	PFab 2-Line 6 - 4th Floor (EL34.47~ EL44.22m) Primary & Secondary Steel Stru	60	20		20-May-22 A 20-May-22 A	19-Jan-23		28-Dec-22	-22		
06-FGC-6-1150	PFab 2-Line 6 - Top Floor Primary & Secondary Steel Structure Erection	60	60		20-Jan-23	20-Mar-23	04-Feb-23	04-Apr-23	15		20-Ja
06-FGC-6-1160	PFab 2-Line 6 - Tertiary Structure Erection	59	17		15-Sep-22 A	25-Mar-23	24-Mar-23	09-Apr-23	15		
Mechanical Erection		378	81		21-Jan-22 A	21-Mar-23		26-Feb-23	-23		
06-FGC-6-1170	PFab 2-Line 6 - 1st Floor (Below EL12.47m) (Including Silencer ID fan)	60	81		21-Jan-22 A	21-Mar-23	08-Dec-22		-23		
06-FGC-6-1180	PFab 2-Line 6 - 2nd Floor (EL12.47~ EL23.47m) (Including Dosing system bicar)	60	81		24-Jun-22 A	21-Mar-23	08-Dec-22		-23		
06-FGC-6-1190	PFab 2-Line 6 - 3rd Floor (EL23.47~ EL34.47m) (Including Ash and residue to sol	60	81		08-Sep-22 A	21-Mar-23	08-Dec-22		-23		
06-FGC-6-1200	PFab 2-Line 6 - 4th Floor (EL34.47~ EL44.22m) (Including Urea to ammonia conv	60	60		21-Jan-23	21-Mar-23		26-Feb-23	-23		21-,
Piping Fabrication 06-FGC-6-1220	PFab 2-Line 6 - Piping Fabrication	180 180	60 60		30-Sep-21 A	28-Feb-23 28-Feb-23	08-Dec-22 08-Dec-22		-23 -23		
Piping Installation	i i ao 2°LINE 0° FIPINY I ADITCATION	180	121	00.07%	30-Sep-21 A 31-Dec-22	28-Feb-23 30-Apr-23	08-Dec-22 08-Dec-22	_	-23		
06-FGC-6-1000	PFab 2-Line 6 - Piping Installation	121	121	0%	31-Dec-22*	30-Apr-23	08-Dec-22		-23	31-Dec-22*	
E&I Fabrication		150	150		31-Dec-22	29-May-23	22-Jan-23		22		
06-FGC-6-1230	PFab 2-Line 6 - E&I Fabrication	150	150	0%	31-Dec-22*	29-May-23	22-Jan-23	20-Jun-23	22	31-Dec-22*	
E&I Installation		52	52		22-Mar-23	12-May-23	27-Feb-23	19-Apr-23	-23		
06-FGC-6-1240	PFab 2-Line 6 - E&I Support Installation	45	45		22-Mar-23*	05-May-23	27-Feb-23	12-Apr-23	-23		
06-FGC-6-1250	PFab 2-Line 6 - E&I Cable Ladder Erection	45	45		29-Mar-23	12-May-23	06-Mar-23	19-Apr-23	-23		
	PErk O Line C. Insulation	133	133		31-Dec-22	12-May-23	08-Dec-22		-23		
06-FGC-6-1020	PFab 2-Line 6 - Insulation	133	133 123		31-Dec-22 25-Jun-22 A	12-May-23 02-May-23	08-Dec-22 13-Dec-22		-23 5	31-Dec-22	
Fabrication of Mega Steel Stee		<u>307</u> 45	123		25-Jun-22 A 21-Aug-22 A	02-May-23 02-Jan-23	13-Dec-22 15-Jan-23		15		
16-8500-5 (6E)	Material Procurment (FM3)	45	3		21-Aug-22 A	02-Jan-23	15-Jan-23		15		02-Jan-23, N
lanth Dallin	g Programme (December 2022)								Remaining Work	<ul> <li>Actual Milestone</li> </ul>	

ct No. EP/SP/66/12 Facilities, Phase 1	この 環境保護署
2023	Environmental Protection Department
63	Mar 64
	2-Line 4 - Top Floor Primary & Secondary Stee
	PFab 2-Line 4 - Tertiary Structure Erection, PF
PFab 2-Line 4 - 1st F	Floor (Below EL12.47m) (Including Silencer ID
PFab 2-Line 4 - 2nd	Floor (EL12.47~ EL23.47m) (Including Dosing
	Floor (EL23.47~ EL34.47m) (Including As h and
	Floor (EL34.47~ EL44.22m) (Including Urea to
	PFab 2-Line 4 - Piping
	FFa0 2-Lille 4 - Fipilig
	10 May 00 D
	18-Mai-23, Fr
10	Eab 22 DEab 2 Line 4 E&L Eabrication DEa
18-	Feb-23, PFab 2-Line 4 - E&I Fabrication, PFa
09-Feb-23*	23-10
16-Feb-23	
	07-Mar-23*
	08-Mar-23*
13-Feb-23	
oor(EL23.47~ EL34.47m) Primary & S	Secondary Steel Structure Erection, 04-Jan-23
ine 5 - 4th Floor (EL34.47~ EL44.22m	) Primary & Secondary Steel Structure Erectic
	15-Mar-23, PFab
an-23, PFab 2-Line 5 - Tertiary Structur	e Erection, PFab 2-Line 5 - Tertiary Structure E
·····	······
	22-Mar-23*
	22-Mar-23*
	22-Mar-23*
	00.1400
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	29-Mar-23
ab 2-Line 6 - 4th Floor (EL34.47~ EL4	29-Mar-23
ab 2-Line 6 - 4th Floor (EL34.47~ EL4	29-Mar-23 4.22m) Primary & Secondary Steel Structure I 20-Mar-23,
ab 2-Line 6 - 4th Floor (EL34.47~ EL4	29-Mar-23
ab 2-Line 6 - 4th Floor (EL34.47~ EL4	29-Mar-23 4.22m) Primary & Secondary Steel Structure I 20-Mar-23, 25-M
	29-Mar-23 4.22m) Primary & Secondary Steel Structure I 20-Mar-23, 25-M PFab 2-Li
	29-Mar-23 4.22m) Primary & Secondary Steel Structure I 20-Mar-23, 25-M PFab 2-Li PFab 2-Li
	29-Mar-23 4.22m) Primary & Secondary Steel Structure I 20-Mar-23, 25-M PFab 2-Li
	29-Mar-23 4.22m) Primary & Secondary Steel Structure I 20-Mar-23, 25-M PFab 2-Li PFab 2-Li
	29-Mar-23 4.22m) Primary & Secondary Steel Structure I 20-Mar-23, 25-M PFab 2-Li PFab 2-Li PFab 2-Li
	29-Mar-23 4.22m) Primary & Secondary Steel Structure I 20-Mar-23, 25-M PFab 2-Li PFab 2-Li PFab 2-Li
	29-Mar-23 4.22m) Primary & Secondary Steel Structure I 20-Mar-23, 25-M PFab 2-Li PFab 2-Li PFab 2-Li PFab 2-Li 21-Mar-23
	29-Mar-23 4.22m) Primary & Secondary Steel Structure I 20-Mar-23, 25-M PFab 2-Li PFab 2-Li PFab 2-Li PFab 2-Li 21-Mar-23
	29-Mar-23 4.22m) Primary & Secondary Steel Structure I 20-Mar-23, 25-M PFab 2-Li PFab 2-Li PFab 2-Li PFab 2-Li 21-Mar-23
	29-Mar-23 4.22m) Primary & Secondary Steel Structure I 20-Mar-23, 25-M PFab 2-Li PFab 2-Li PFab 2-Li PFab 2-Li 21-Mar-23
	29-Mar-23 4.22m) Primary & Secondary Steel Structure I 20-Mar-23 25-M PFab 2-Li PFab 2-Li PFab 2-Li PFab 2-Li PFab 2-Line 6 - Piping Fabrication, 2
	29-Mar-23 4.22m) Primary & Secondary Steel Structure I 20-Mar-23, 25-M PFab 2-Li PFab 2-Li PFab 2-Li PFab 2-Li 21-Mar-23
	29-Mar-23 4.22m) Primary & Secondary Steel Structure I 20-Mar-23 25-M PFab 2-Li PFab 2-Li PFab 2-Li PFab 2-Li PFab 2-Line 6 - Piping Fabrication, 2
	29-Mar-23 4.22m) Primary & Secondary Steel Structure I 20-Mar-23 25-M PFab 2-Li PFab 2-Li PFab 2-Li PFab 2-Li PFab 2-Line 6 - Piping Fabrication, 2 22-Mar-23*
	29-Mar-23 4.22m) Primary & Secondary Steel Structure I 20-Mar-23 25-M PFab 2-Li PFab 2-Li PFab 2-Li PFab 2-Li PFab 2-Line 6 - Piping Fabrication, 2 22-Mar-23*
	29-Mar-23 4.22m) Primary & Secondary Steel Structure I 20-Mar-23 25-M PFab 2-Li PFab 2-Li PFab 2-Li PFab 2-Li PFab 2-Line 6 - Piping Fabrication, 2 22-Mar-23*
	29-Mar-23 4.22m) Primary & Secondary Steel Structure I 20-Mar-23 25-M PFab 2-Li PFab 2-Li PFab 2-Li PFab 2-Line 6 - Piping Fabrication, 2 22-Mar-23*
	29-Mar-23
	29-Mar-23
	29-Mar-23
ab 2-Line 6 - 4th Floor (EL34.47~ EL4	29-Mar-23
	29-Mar-23
	29-Mar-23

Material Testing           16-8500-10 (6E)           16-8500-11 (6E)           16-8500-7 (6E)           16-8500-8 (6E)           Fabrication of Steel Struct           16-8530 (6E)           16-8540 (6E)	Material Testing (FM2) Material Testing (FM3)	249 60	23	25-Jun-22 A					61	02
16-8500-11 (6E) 16-8500-7 (6E) 16-8500-8 (6E) Fabrication of Steel Struct 16-8530 (6E)		<u>co</u>	20		22-Jan-23		06-Feb-23	15		
<ul> <li>16-8500-7 (6E)</li> <li>16-8500-8 (6E)</li> <li>Fabrication of Steel Struct</li> <li>16-8530 (6E)</li> </ul>	Material lesting (FM3)		6	90% 25-Jun-22 A	05-Jan-23		31-Dec-22	-5		Material Testing (F
16-8500-8 (6E)           Fabrication of Steel Struct           16-8530 (6E)	Material Testine (DMO)	60	20	66.67% 07-Dec-22 A	22-Jan-23	18-Jan-23	06-Feb-23	15	22A	
Fabrication of Steel Struct 16-8530 (6E)	Material Testing (BM2)	60 60	6 12	90% 25-Jun-22 A 80% 05-Oct-22 A	05-Jan-23 11-Jan-23	23-Dec-22	28-Dec-22 28-Dec-22	-8		Material Testing (I
16-8530 (6E)	Material Testing (BM3)	123	12		02-May-23		28-Dec-22 07-May-23	-14		
,	Fabrication of Steel Structure (BM3) & Delivery	80	80	0% 12-Jan-23	01-Apr-23		18-Mar-23	-14		12-Jan-23
	Fabrication of Steel Structure (FM1) & Delivery	70	33	52.86% 23-Dec-22 A	01-Feb-23	13-Dec-22	14-Jan-23	-18	3-Dec-22 A, 23-Dec-22 A	
16-8550 (6E)	Fabrication of Steel Structure (FM2) & Delivery	60	60	0% 06-Jan-23	06-Mar-23	01-Jan-23	01-Mar-23	-5	06-	-Jan-23
16-8560 (6E)	Fabrication of Steel Structure (FM3) & Delivery	90	90	0% 02-Feb-23	02-May-23	07-Feb-23	07-May-23	5		
Off-site Fabrication of Tu		503	115		24-Apr-23	26-Dec-22		-2		
Fabrication of Module (Pow	ver Island)	503	115		24-Apr-23	26-Dec-22		-2		
Turbine Module 1 06-4020(6)	Turbine Module 1 - Mechanical Equipment Installation	450 450	77 31	27-Aug-21 A 93.11% 31-Aug-21 A	17-Mar-23 30-Jan-23	30-Jan-23	31-Mar-23 01-Mar-23	14 30		
06-4040(6)	Turbine Module 1 - TBS Tower 1 Fabrication	60	6	90% 27-Aug-21 A	05-Jan-23	30-Jan-23	04-Feb-23	30		05-Jan-23, Turbir
06-4040-1(M55)	Turbine Module 1 - TBS Tower 1 Erection & Installation	31	31	0% 27-Aug-21 A	30-Jan-23	30-Jan-23	01-Mar-23	30		
06-4080(6)	Turbine Module 1 - Delivery	77	77	0% 31-Dec-22	17-Mar-23	14-Jan-23	31-Mar-23	14	31-Dec-22	
Turbine Module 2		450	103	06-Sep-21 A	12-Apr-23	26-Dec-22	07-Apr-23	-5		
06-4220(6)	Turbine Module 2 - Mechanical Equipment Installation	450	74	·	14-Mar-23	24-Jan-23	07-Apr-23	24		
06-4240(6)	Turbine Module 2 - TBS Tower 2 Fabrication	46	26	43.48% 06-Sep-21 A	25-Jan-23	26-Dec-22	20-Jan-23	-5		
06-4240-1(M55)	Turbine Module 2 - TBS Tower 2 Erection & Installation	88 450	77 115	12.5% 06-Sep-22 A 26-Jul-21 A	12-Apr-23 24-Apr-23	21-Jan-23	07-Apr-23 22-Apr-23	-5		
_Turbine Module 3 06-4410(6)	Turbine Module 3 - Steam Turbine 3 Fabrication	450	89		24-Apr-23 29-Mar-23	29-Dec-22 24-Jan-23	22-Apr-23 22-Apr-23	-2 24		
06-4420(6)	Turbine Module 3 - Mechanical Equipment Installation	450	89	80.22% 07-Sep-21 A	29-Mar-23	24-Jan-23	22-Apr-23	24		
06-4440(6)	Turbine Module 3 - TBS Tower 3 Fabrication	61	69	0% 06-Sep-21 A	09-Mar-23	29-Dec-22	07-Mar-23	-2		
06-4440-1(M55)	Turbine Module 3 - TBS Tower 3 Erection & Installation	88	46	47.73% 06-Sep-22 A	24-Apr-23	08-Mar-23	22-Apr-23	-2		<b>a</b>
Procurement for Air Cool	I Condensers	440	134	28-Feb-22 A	13-May-23	12-Feb-23	07-Dec-23	208		
06-1120-1	Off-site Fabrication of ACC-2 Units	178	37	79.21% 28-Feb-22 A	05-Feb-23	12-Feb-23	20-Mar-23	43		
06-1120-2	Off-site Fabrication of ACC-3 Units	178	52	70.79% 28-Feb-22 A	20-Feb-23	17-Sep-23	07-Nov-23	260		
06-1130	Factory Acceptance Test (FAT) for ACC-1	25	25	0% 28-Sep-22 A	24-Jan-23	07-Apr-23	01-May-23	97		
06-1140	Factory Acceptance Test (FAT) for ACC-2	82	82	0% 06-Feb-23	28-Apr-23	21-Mar-23	10-Jun-23	43		
06-1150	Factory Acceptance Test (FAT) for ACC-3	82	82	0% 21-Feb-23	13-May-23	17-Sep-23	07-Dec-23	208		
06-1160	Delivery to Site ACC-1	20	20	0% 25-Jan-23	13-Feb-23		21-May-23	97		25-Jan
Procurement for CCCW E		338	93	01-Mar-22 A	02-Apr-23		01-Nov-23	213		11-Jan-2
06-1410(1)	Material Procurement & Equipment Manufacture	300	12	96% 01-Mar-22 A	11-Jan-23 13-Mar-23		12-Aug-23	213 213		
06-1420(1) 06-1420-1(1)	Factory Acceptance Test (FAT) Delivery to Site	60 20	60 20	0% 13-Jan-23 0% 14-Mar-23	02-Apr-23	14-Aug-23 13-Oct-23	12-Oct-23 01-Nov-23	213		13-Jaii-23
.,	ical Treatment Plant Building Plant Equipment	398	285	30-Jun-21 A	11-Oct-23		09-Apr-24	181		
06-1150-1(1)	Mechanical Equipment Material Submission and Approval	180	28	84.44% 30-Jun-21 A	27-Jan-23		08-Sep-23	224		
06-1150-2(1)	Pipe Material Submission and Approval	180	28	84.44% 30-Jun-21 A	27-Jan-23		20-Oct-23	266		
06-1150-3(1)	Electrical and Instrumentation Material Submission and Approval	180	28	84.44% 30-Jun-21 A	27-Jan-23	23-Feb-24	21-Mar-24	419		
06-1160-1(1)	Mechanical Equipment Procurement (Incl. FAT)	217	214	1.38% 30-Jun-21 A	11-Oct-23	09-Sep-23	09-Apr-24	181		•
06-1160-2(1)	Pipe Material Procurement (Incl. FAT)	180	172	4.44% 30-Jun-21 A	11-Oct-23	21-Oct-23	09-Apr-24	181		<b>-</b> [
Procurement for Wastewa	ater Treatment Plant Equipment	132	90	23-Jun-22 A	30-Mar-23	30-Mar-23	27-Jun-23	89		1
06-1190-1(1)	Mechanical Equipment Material Submission and Approval	90	31	65.56% 23-Jun-22 A	16-Feb-23	28-May-23	27-Jun-23	131		
06-1190-2(1)	Pipe Material Submission and Approval	90	31	65.56% 23-Jun-22 A	16-Feb-23	28-May-23		131		<u> </u>
06-1190-3(1)	Electrical and Instrumentation Material Submission and Approval	90	31	65.56% 29-Jul-22 A	30-Jan-23	30-Mar-23	29-Apr-23	89		
06-1200-1(1)	Mechanical Equipment Procurement (Incl. FAT)	90	90	0% 31-Dec-22 0% 31-Dec-22	30-Mar-23	30-Mar-23	27-Jun-23	89	31-Dec-22	
06-1200-2(1) 06-1200-3(1)	Pipe Material Procurement (Incl. FAT) Electrical and Instrumentation Material Procurement (Incl. FAT)	90 59	90 59	0% 31-Dec-22	30-Mar-23 30-Mar-23	30-Mar-23 30-Apr-23	27-Jun-23 27-Jun-23	89	31-Dec-22	
.,	Demin Plant Equipment	484	121	0% 31-Jan-20 A	30-Mar-23	30-Apr-23 31-May-23		187		
06-1230-1(1)	Mechanical Equipment Material Submission and Approval	90	30	66.67% 08-Jan-22 A	29-Jan-23	07-Jul-23	05-Aug-23	188		
06-1230-2(1)	Pipe Material Submission and Approval	90	30	66.67% 08-Jan-20 A	29-Jan-23	07-Jul-23	05-Aug-23	188		
06-1230-3(1)	Electrical and Instrumentation Material Submission and Approval	90	30	66.67% 16-Apr-20 A	29-Jan-23	07-Jul-23	05-Aug-23	188		·····
06-1240-1(1)	Mechanical Equipment Procurement (Incl. FAT)	60	30	50% 01-Jun-22 A	29-Jan-23	07-Jul-23	05-Aug-23	188		
06-1240-2(1)	Pipe Material Procurement (Incl. FAT)	60	30	50% 01-Dec-22 A	28-Feb-23	06-Aug-23	04-Sep-23	188		<b>a</b> ;
06-1240-3(1)	Electrical and Instrumentation Material Procurement (Incl. FAT)	60	30	50% 01-Dec-22 A	28-Feb-23	06-Aug-23	04-Sep-23	188		<b>_</b> }
06-1260	Delivery to Site	60	60	0% 01-Mar-23	29-Apr-23	05-Sep-23	03-Nov-23	188		
06-1260-1(M55)	WTP chemical storage tank Material Submission and Approval	120	121	0% 21-Apr-22 A	30-Apr-23	31-May-23	28-Sep-23	151		
06-1260-2(M55)	WTP chemical storage tank Procurement (Incl. FAT)	180	97	46.11% 22-Apr-22 A	30-Apr-23	31-May-23	04-Sep-23	127		<b>_</b>
	nsformers and Associated Equipment	364	150	31-May-22 A	29-May-23	07-Mar-23		90		
Procurement of Transforme 06-1290(1)	#s & EDG Factory Acceptance Test (FAT)	120 120	120 120	30-Jan-23 0% 30-Jan-23	29-May-23 29-May-23		27-Aug-23 27-Aug-23	90 90		
Procurement of Switchboar		364	120		-		04-Jul-23	36		
06-2090(1)	Material Submission and Approval	60	30	50% 31-May-22 A	29-Jan-23	07-Mar-23	05-Apr-23	66		
06-2100(1)	Material & Equipment Procurement	240	90	62.5% 31-May-22 A	30-Mar-23	07-Mar-23	04-Jun-23	66		
06-2110(1)	Factory Acceptance Test (FAT)	90	90	0% 01-Mar-23	29-May-23	06-Apr-23	04-Jul-23	36		
										<u></u>
Month Rolling	g Programme (December 2022)							Remaining Work	<ul> <li>Actual Milestone</li> </ul>	

act No. EP/SP/66/12 現境保護署 Environmental Pro nt Facilities, Phase 1 M2), 05-Jan-23, 05-Jan-23, Material Testing (FM2) 22-Jan-23, Material Testing (FM3), Material Testing (FM3), 22-Jan-23 M2), 05-Jan-23, 05-Jan-23, Material Testing (BM2) esting (BM3), 11-Jan-23, 11-Jan-23, Material Testing (BM3) Fabrication of Steel Structure (FM1) & Delivery, 01-Feb-23, 01-Feb-23, 06-Mar-23, Fabrication of S 02-Feb-23 ..... 30-Jan-23, Turbine Module 1 - Mechanical Equipment Installation, Turbin Module 1 - TBS Tower 1 Fabrication, Turbine Module 1 - TBS Tower 1 Fabrication, 05-30-Jan-23, Turbine Module 1 - TBS Tower 1 Erection & Installation, Turbin 17-Mar-23, Turk 14-Mar-23, Turbine Turbine Module 2 - TBS Tower 2 Fabrication, 25-Jan-23, 25-Jan-23, Turbine Mod Turbine Module 3 - TBS 05-Feb-23, Off-site Fabrication of ACC-2 Units, Off-site Fabricatio 20-Feb-23, Off-site Fabrication of ACC-3 Units 24-Jan-23, Factory Acceptance Test (FAT) for ACC-1, Factory Acceptance Test ( 06-Feb-23 21-Feb-23 💻 3 13-Feb-23, Delivery to Site ACC-1 Material Procurement & Equipment Manufacture, Material Procurement & Equipment 13-Mar-23, Factory 14-Mar-23 27-Jan-23, Mechanical Equipment Material Submission and Approval, Mech 27-Jan-23, Pipe Material Submission and Approval, Pipe Material Submission 27-Jan-23, Electrical and Instrumentation Material Submission and Approval 16-Feb-23, Mechanical Equipment Material Subm 16-Feb-23, Pipe Material Submission and Approva 30-Jan-23, Electrical and Instrumentation Material Submission and Appr 1-Jan-23 💻 29-Jan-23, Mechanical Equipment Material Submission and Approval, Mec 29-Jan-23, Pipe Material Submission and Approval, Pipe Material Submis ----29-Jan-23, Electrical and Instrumentation Material Submission and Appro 29-Jan-23, Mechanical Equipment Procurement (Incl. FAT), Mechanical E 28-Feb-23, Pipe Material Procurem 28-Feb-23, Electrical and Instrumer 01-Mar-23 💻 -Jan-23 💻 29-Jan-23, Material Submission and Approval, Material Submission and A 01-Mar-23 🔲

)	Activity Name	Original Duration	Remaining Duration	Activity % Complete	Current Start	Current Finish	Late Start	Late Finish	Total Float M61 Remarks	2022 Dec	lan
					23-May-22 A	10 10 00	20-Feb-23	01-Sep-23	E4	61	62
Procurement for Cor 06-1310	Scada System's Scada System Procurement, Panel Assembly & Wiring	408 140	<mark>194</mark> 74	47.14%	23-May-22 A	12-Jul-23 14-Mar-23	20-Feb-23	01-3ep-23 04-May-23	51 51		
06-1330	Factory Acceptance Test (FAT)	120	120		5 15-Mar-23	12-Jul-23		01-Sep-23	51		
Procurement for Ons	shore Crane at Berth	332	332		04-Dec-22 A	27-Nov-23	08-Dec-22	04-Nov-23	-23		
06-1350	Supplier Submission and Approval	60	32	46.67%	04-Dec-22 A	31-Jan-23	08-Dec-22	08-Jan-23	-23		
06-1360	Material & Equipment Procurement	300	300	0%	01-Feb-23	27-Nov-23	09-Jan-23	04-Nov-23	-23		C
	if-site Fabrication of Pipe Bridges (Incl. Pipings)	231	139 139		30-May-21 A 30-May-21 A	18-May-23 18-May-23	03-Jan-23 27-Feb-23	11-Aug-23	85 59		
Fabrication of Pipe Rad	ick (Prerab.s)	152	91		28-Oct-21 A	31-Mar-23	02-Mar-23	16-Jul-23	107		
06-5000(6)	Structure Cutting, Painting & Pre-assembly	110	32	70.91%	28-Oct-21 A	31-Jan-23	02-Mar-23	02-Apr-23	61		· • <sup>J</sup> · · · · · · · · · · · · · · · · · · ·
06-5010(6)	Erection & Fabrication	60	44		07-Mar-22 A	12-Feb-23	02-Mar-23	14-Apr-23	61		
06-5020(6)	Piping installation	60	60		31-Dec-22	28-Feb-23	17-Apr-23	15-Jun-23	107	31-Dec-22	
06-5030(6) Pipe Rack 2	Pre-commissioning (FAT)	31 197	31 136		01-Mar-23	31-Mar-23 15-Mav-23	16-Jun-23 30-Mar-23	16-Jul-23 15-Jul-23	107 61		
06-5070(6)	Structure Cutting, Painting & Pre-assembly	110	16		11-Nov-21 A	15-Jan-23	30-Mar-23	14-Apr-23	89		15-Jan
06-5080(6)	Erection & Fabrication	60	31	48.33%	5 14-Mar-22 A	15-Mar-23	15-Apr-23	15-May-23	61		· · · · · · · · · · · · · · · · · · ·
06-5090(6)	Piping installation	61	61	0%	6 16-Mar-23	15-May-23	16-May-23	15-Jul-23	61		
Pipe Rack 3	Structure Outling Painting 9 Pro secondly	182	139		30-May-21 A	18-May-23	27-Feb-23	15-Jul-23	58 58		
<ul><li>06-5140(6)</li><li>06-5150(6)</li></ul>	Structure Cutting, Painting & Pre-assembly Erection & Fabrication	110 60	47		30-May-21 A	15-Feb-23 18-Mar-23	27-Feb-23 15-Apr-23	14-Apr-23 15-May-23	58		· · ·
06-5160(6)	Piping installation	61	61		5 19-Mar-22 A	18-May-23	16-May-23	15-Jul-23	58		
Fabrication of Pipe Bri		109	109		14-Sep-22 A	18-Apr-23	02-Mar-23		115		
	en CCCW and Turbine Hall	67	72		14-Sep-22 A	12-Mar-23	02-Mar-23	12-May-23	61		
06-5320(6) 06-5330(6)	Piping installation Pre-commissioning (FAT)	46	10		14-Sep-22 A	09-Jan-23 09-Feb-23	02-Mar-23	11-Mar-23	61		09-Jan-23, Pip
<pre>06-5340(6)</pre>	Load out & ready to ship	15	31 15		10-Jan-23	24-Feb-23	12-Mar-23 12-Apr-23	11-Apr-23 26-Apr-23	61		1,0-Jan-23
06-5350(6)	Pipe Bridge B Between CCCW and Turbine Hall Delivery	16	16		25-Feb-23	12-Mar-23	27-Apr-23	12-May-23	61		
Pipe bridge B1 & B2 o	on the Roof of Turbine Hall	109	109		31-Dec-22	18-Apr-23	25-Apr-23	11-Aug-23	115		
06-5370(6D)	Erection & Fabrication	32	32		31-Dec-22	31-Jan-23	25-Apr-23	26-May-23	115	31-Dec-22	
06-5380(6D)	Piping installation	46	46		01-Feb-23	18-Mar-23	27-May-23	11-Jul-23	115		C
6-5390(6D) Fabrication of Pipe Bri	Pre-commissioning (FAT)	31 203	31 111		19-Mar-23	18-Apr-23 20-Apr-23	12-Jul-23	11-Aug-23 23-Apr-23	115		
Pipe Bridge C betwee		200	108		18-Oct-22 A	17-Apr-23		20-Apr-23	3		
06-5400(6)	Structure Cutting, Painting & Pre-assembly	14	47	0%	5 18-Oct-22 A	15-Feb-23	03-Jan-23	18-Feb-23	3		
06-5410(6)	Erection & Fabrication	61	61		16-Feb-23	17-Apr-23	19-Feb-23	20-Apr-23	3		
Pipe Bridge C between 06-5440(6)	n Turbine Hall & ACC -2 Structure Cutting, Painting & Pre-assembly	<u>200</u> 14	108 47		18-Oct-22 A	17-Apr-23 15-Feb-23	03-Jan-23 03-Jan-23	20-Apr-23 18-Feb-23	3		
06-5450(6)	Erection & Fabrication	61	61		16-Feb-23	17-Apr-23	19-Feb-23	20-Apr-23	3		
Pipe Bridge C betwee		203	111		18-Oct-22 A	20-Apr-23		23-Apr-23	3		
06-5480(6)	Structure Cutting, Painting & Pre-assembly	14	50	0%	5 18-Oct-22 A	18-Feb-23	03-Jan-23	21-Feb-23	3		
06-5490(6)	Erection & Fabrication	61	61	0%	5 19-Feb-23	20-Apr-23	22-Feb-23	· · ·	3		
	Electrical System for On-site Installation Material & Equipment Procurement	227	46	02 229/	01-Mar-22 A		24-Oct-23	-	<b>538</b> 297		
<ul><li>06-1440</li><li>06-1450</li></ul>	Factory Acceptance Test (FAT)	180	12 13		01-Mar-22 A 12-Jan-23	11-Jan-23 24-Jan-23	24-Oct-23 05-Nov-23	04-Nov-23 17-Nov-23	297		11-Jan-23, 11-Jan-23, 1
06-1460	Delivery to Site	21	21		25-Jan-23	14-Feb-23	16-Jul-24	05-Aug-24	538		25-Jan-2
Procurement for Ven	ntilation and Odor Treatment System	210	210		31-Dec-22	28-Jul-23	24-May-23	30-Apr-24	277		
06-1470(1)	Material Submission and Approval	30	30	0%	31-Dec-22	29-Jan-23	24-May-23	22-Jun-23	144	31-Dec-22	
06-1480	Material & Equipment Procurement	180	180		30-Jan-23	28-Jul-23	23-Jun-23	19-Dec-23	144		30
06-1820(6C)	Material Submission & Equipment Procurement (for IW MF Substation)	120 334	120	0%	31-Dec-22	29-Apr-23	02-Jan-24	30-Apr-24	367	31-Dec-22	
Procurement for Fire 06-1510	Material Submission and Approval	334	120 30	0%	31-May-22 A 01-Mar-23	29-Apr-23 30-Mar-23		21-Sep-23 21-Sep-23	145 175		
IWMF Substation	Material Submission and Approval	334	120	0 /	31-May-22 A	29-Apr-23	-	10-Jul-23	72		-
06-1810(6)	Material Submission & Equipment Procurement (For IWMF Substation)	120	90	25%	31-May-22 A	30-Mar-23	13-Mar-23	10-Jun-23	72		
06-1820(6)	Factory Acceptance Test (FAT)	90	90	0%	30-Jan-23	29-Apr-23	12-Apr-23	10-Jul-23	72		30-
Procurement for Plu		120	120		31-Dec-22	29-Apr-23	22-Aug-23		434		
06-1550 06-1580-1(6C)	Material Submission and Approval Material Submission & Equipment Procurement	30	30 120		01-Mar-23	30-Mar-23 29-Apr-23	22-Aug-23 09-Mar-24	20-Sep-23 06-Jul-24	174 434	31-Dec-22	
Procurement for Dra		120	120	0 //	31-Dec-22	29-Apr-23		10-Feb-25	653	31-Det-22	
06-1590	Material Submission and Approval	30	30	0%	5 11-Mar-23	09-Apr-23	-	20-Sep-23	164		
06-1620-1(6C)	Material Submission & Equipment Procurement (for IWMF Substation)	120	120	0%	31-Dec-22	29-Apr-23	13-Mar-24	10-Jul-24	438	31-Dec-22	
06-1620-3(M55)	Material Submission & Equipment Procurement (Caisson 13)	30	30		04-Jan-23	02-Feb-23		26-Jan-25	724	04-Jan	· •
06-1620-4(M55)	Delivery to Site	30	30	0%	5 19-Jan-23	17-Feb-23	12-Jan-25	10-Feb-25	724		19-Jan-23 💻
Procurement for Cra	anage Equipment	471	165 121		02-Aug-21 A 02-Aug-21 A	13-Jun-23 30-Apr-23		24-Nov-23 25-Aug-23	164 117		
Waste Crane 06-1720	Material & Equipment Procurement	180	121		02-Aug-21 A	30-Apr-23 30-Apr-23	27-Apr-23 27-Apr-23	25-Aug-23 25-Aug-23	117		4
Ash Crane		321			11-Aug-21 A			24-Nov-23	232		
06-1830	Material & Equipment Procurement	180	5	97.22%	11-Aug-21 A	04-Jan-23	20-Aug-23	24-Aug-23	232		04-Jan-23, Material 8

3-Month Rolling Programme	(December 2022)
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Actual Work

Critical Milestone

Critical Remaining Work

ct No. EP/SP/66/12 Facilities, Phase 1	現境保護署 Environmental Protection Department
2023 Feb 63	Mar 64
	14-Mar-23, Scada 15-Mar-23
Supplier Submission and A	Approval, 31-Jan-23, 31-Jan-23, Supplier Sub
	ng, Painting & Pre-assembly, Structure Cuttin Erection & Fabrication, Erection & Fabricatio 28-Feb-23, Piping installation ar-23
	ssembly, Structure Cutting, Painting & Pre-as 15-Mar-23, Erecti
	16-Mar-23
	18-Mar-23, Er
ng installation, Piping installation, 09-J 09-Feb-23, Pre 10-Feb-23	an-23 -commissioning (FAT) 24-Feb-23, Load out & ready to ship
25-Feb-23 31-Jan-23, Erection & Fab	
-Feb-23	18-Mar-23, Pi 19-Mar-23
15-Feb- 16-Feb-23	23, Structure Cutting, Painting & Pre-assemb
15-Feb- 16-Feb-23	23, Structure Cutting, Painting & Pre-assemb
18-Feb-23	Feb-23, Structure Cutting, Painting & Pre-ass
24-Jan-23, Factory Acceptance Tes	erial & Equipment Procurement, 11-Jan-23 t (FAT) 3, Delivery to Site
29-Jan-23, Material Submiss an-23	ion and Approval
01-M	ar-23
an-23	
	ar-23
	11-Mar-23
· · · · · · · · · · · · · · · · · · ·	mission & Equipment Procurement (Caisson eb-23, Delivery to Site
Equipment Procurement, Material & E	quipment Procurement, 04-Jan-23

B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B		Activity Name	Original Duration	Remaining Duration	Activity % Complete	Current Start	Current Finish	Late Start	Late Finish	Total Float M61 Remarks	2022 Dec	Jan
Index         Index <th< th=""><th>06-1840</th><th>Manufacture and Factory Acceptance Test (FAT)</th><th>30</th><th>30</th><th>0%</th><th>05-Jan-23</th><th>03-Feb-23</th><th>25-Aug-23</th><th>23-Sep-23</th><th>232</th><th>61 05-Ja</th><th>62 an<del>;</del>23</th></th<>	06-1840	Manufacture and Factory Acceptance Test (FAT)	30	30	0%	05-Jan-23	03-Feb-23	25-Aug-23	23-Sep-23	232	61 05-Ja	62 an <del>;</del> 23
B       B       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C	06-1850	Ash Crane Delivery to Site	62	62	0%	04-Feb-23	06-Apr-23	24-Sep-23	24-Nov-23	232		·
B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B		Material & Equipment Procurement		00			·					
Image       Participant       Partiteant       Participant      <						-		-	•			
B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B							·					
Subset Norma         Control											31-Dec-22	15
A Solution							_	_				
Processes         Processes         Process											31-Dec-22	
0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0									· · ·			
B       B       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C       C												
Image: Section of the sectin of the section of th			77			Ŭ		17-Sep-23				
second       Particle       Parite       Parite       Pari								· ·				
19 19 19 19 19 19 19 19 19 19 19 19 19 1	,	-					-					
Processment for Building Tatistable Marina (Loose and Balance M.)         995         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95         95        95        95         9							-					03-Jan-23, Materia
B BR00       Interactor Part Builster Marcial Schwarzson, FA are Deliver Marcial Schwarzson, FA are Deliver Marcial Schwarzson, Frazerson FA are Deliver Marcial Ma	06-2260(1)	Material & Equipment Procurement	120	120	0%	04-Jan-23	03-May-23	21-Jan-23	20-May-23	17	04-Jar	n-23
BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>												
0.4428/0       0.11411 14 0.1401-0.44181 3.5.0.15.0.01, Proceeders (FA and Olivery 2000)       0.4000 (0.504-00)       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0       0.4042/0										-		
00000000000000000000000000000000000								· ·			31-Dec-22	09-Jan-23
for the stand is a function of the stand is function of the stand is function of the stan	,	· · · · · · · · · · · · · · · · · · ·										09-Jan-23
000000000000000000000000000000000000	06-8030(6)10	Chimney - Material Submission, Procurement, FAT and Delivery	300	300	0%	03-Mar-23	27-Dec-23	04-Oct-23	29-Jul-24	215		
Openal benearies         Description of Process Version         Park Version								· ·	· · ·			
0.5-80(b)       Exablement of Pacal Concete Varial Parel Moding F famination       06       06       07.400       07.400       15.400       40.400       40.400       15.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400       16.400	. ,											09-Jan-23
00.0000       Percare director wite Para Moding & Fabric and       100       0.0       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.0000       00.00000       00.00000       00.0												
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Processment for Weit Fay List Weits (weits)         Weits (weits)         Material A Equipments (weits)         Material A Equipment (mount)         Material A Equipment (mount) <t< td=""><td>i —</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	i —											
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0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:	an a				0%							
04-1006(9)       Process Building (PGC A TPU) (900)       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       00       00       00       00       00       00       00       00	. ,			90								
14 - 1960 (F)       Watewake <i>Treasment Plant</i> (300)       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 <td< td=""><td></td><td></td><td>79</td><td>79</td><td></td><td></td><td>20-Mar-23</td><td></td><td>10-Nov-23</td><td></td><td></td><td></td></td<>			79	79			20-Mar-23		10-Nov-23			
14 180 (#)       1prip Hal Ruher (90)       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       <												
0 + 1820(F)       Compressor 4 COCW Building (00)       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 </td <td>. ,</td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td><ul> <li>Wastev</li> <li>Tipping Hall and Bunke</li> </ul></td>	. ,		-	-						-		<ul> <li>Wastev</li> <li>Tipping Hall and Bunke</li> </ul>
0 + 1900(F)       Elvando Drive Way and Associated Shructures (900)       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0								· ·				
not with Substant (sold)       (m)       (m) <t< td=""><td>04-1870(6F)</td><td>Elevated Drive Way and Associated Structures (90d)</td><td>0</td><td>0</td><td>0%</td><td>06-Mar-23</td><td></td><td>06-Mar-23</td><td></td><td>0</td><td></td><td></td></t<>	04-1870(6F)	Elevated Drive Way and Associated Structures (90d)	0	0	0%	06-Mar-23		06-Mar-23		0		
Index in Construction of Perimeter Seawalls       Seawall and Berth al DCM Are       Seawall and Water Mathematication of Perimeter Seawall and Water Water Seawall and		IWMF Substation (90d)	-	-	0%					-		<b>♦</b>
Phase I - Construction of Perimeter Seawalls         State						-						
Secure 13 and Berth at DCM Area         Specific 11 and Secure 31 May 22 A         118 May 23         17. Apr 23         03. Oct 23         137           Several 13 mode Marks         Several 13 mode Marks         Several 13 mode Marks         17. Apr 23         03. Oct 23         137         Image 100 mode Marks         Several 13 mode Marks         17. Apr 23         03. Oct 23         137         Image 100 mode Marks         Several 13 mode Marks         17. Apr 23         03. Oct 23         137         Image 100 mode Marks         Several 13 mode Marks         17. Apr 23         03. Oct 23         107         Image 100 mode Marks         Several 13 mode Marks         17. Apr 23         03. Oct 23         03. Oct 23         247         Image 100 mode Marks         100         Several 13 mode Marks         100         100         11. Mark 22         29. Jan 23         04. Sep 23         03. Oct 23         247         Image 100 mode Marks         100         100         11. Mark 22         11. Jun 22         11. Jun 23         21. Aug 23         03. Oct 23         100         Image 100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         10		vivester Coovelle										
Preadmin Works       97-Apr-23       93-Otr-23       97-Apr-23       93-Otr-23<								-				
0 81105 11(6)       Pretabrication of Precast Copping for Vertical Seawall       140       140       0%       31-Dec-22       19-May-23       17-Apr-23       03-Sep-23       107       04-102-24       31-Dec-22       247         0 61120-2(M55)       Construction of Seawall and Waw Wall Extension from +3mPD to Deck Level to       60       30       50%       31-May-22       29-Jan-23       04-Sep-23       03-Oct-23       247         0 61120-2(M55)       Construction of Seawall and Waw Wall Extension from +3mPD to Deck Level to       60       30       50%       31-May-22       29-Jan-23       04-Sep-23       04-Oct-23       107       04-Oct-24       140       140       04-Oct-24       140       04-Oct-24       140       140       04-Oct-24       140       140       04-Oct-24       140       04-Oct-24       140       140       04-Oct-24       140-023       140       140       04-Oct-24       140-023       140       140       140       140       140       140       140       140       140       140 </td <td></td>												
08-1120-2(M55)       Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level for       60       30       50%       31-May-22 A       29-Jan-23       04-Sep-23       03-Oct-23       247       4400000000000000000000000000000000000		Prefabrication of Precast Copping for Vertical Seawall			0%						31-Dec-22	
08-1120-4(M55)       Construction of Seawall and Waw Wall Extension from +3mPD to Deck Level for       66       30       50%       31-May-22 A       29-Jan-23       04-Sep-23       03-Oct-23       107       Image: Construction of Seawall and Waw Wall Extension from +3mPD to Deck Level (B       160       43       11-Jul-22 A       18-Jun-23       21-Aug-23       03-Oct-23       107       Image: Construction of Seawall and Waw Wall Extension from +3mPD to Deck Level (B       160       43       11-Jul-22 A       18-Jun-23       21-Aug-23       03-Oct-23       107       Image: Construction of Seawall and Waw Wall Extension from +3mPD to Deck Level (B       160       43       11-Jul-22 A       18-Jun-23       21-Aug-23       03-Oct-23       107       Image: Construction of Seawall and Waw Wall Extension from +3mPD to Deck Level (B       160       43       11-Jul-22 A       18-Jun-23       21-Aug-23       03-Oct-23       107       Image: Construction of Seawall and Waw Wall Extension from +3mPD to Deck Level (B       160       43       17-Jul-22 A       18-Jun-23       11-Sup-23       155       Image: Construction of Seawall and Waw Wall Extension from +3mPD to Deck Level (B       160       04-Jun-22 A       12-Aug-23       31-Dec-22       15-Apr-23       31-Dec-2       15-Apr-23       31-Dec-2       15-Apr-23       31-Dec-2       16-Apr-23       31-Dec-2       16-Apr-23       31-Dec-2       16-Apr-23       31-D												<mark>-</mark>
Image: Provide the service of the s	08-1120-4(M55)	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level for	60	30						247		· · · · · · · · · · · · · · · · · · ·
08-1170       Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level (B       160       43       73%       11-Jul-22A       18-Jun-23       03-Oct-23       107       165       166       160       160       160       11-Jul-22A       18-Jun-23       13-Dec-22       10-Nov-23       165       165       166       160       160       160       160       160       160       160       11-Jul-22A       12-Apr-23       13-Dec-22       15-Apr-23       165       165       166       160       160       160       160       160       160       160       160       160       160       160       160       160       160       160       160       160       160       160       160       160       160       12-Apr-23       13-Dec-22       15-Apr-23       3       3       160       160       160       18-Apr-23       160-Apr-23       160       160       160       160       160       160       160       160       160       160       160       160       160       160       160       160       160       160       160       160       160       160       160       160       160       160       160       160       160       160       1												
Phase II - Reclamation, Breakwater and Berth Construction       364       150       31-May-22A       29-May-23       31-Dec-22       10-Nov-23       165       165       165         Reclamation       207       103       04-Jun-22A       12: Apr-23       31-Dec-22       15-Apr-23       3         Reclamation Works       207       103       04-Jun-22A       12: Apr-23       31-Dec-22       15-Apr-23       3         Surcharge Filling       30       04-Jun-22A       12: Apr-23       03-Jan-23       03-Jan-23       03-Jan-23       03-Jan-23       3         O 8-3090(6)       Fill up +7.5 to +15mPD at South Edge Area (Area 5) (96,700m3 @ 2500m 3/d)       39       18       53.85%       04-Jun-22A       17-Jan-23       03-Jan-23       20-Jan-23       3         Surcharge Period       60       60       18-Jan-23       18-Mar-23       18-Mar-23       21-Jan-23       21-Mar-23       3         Surcharge Removal       103       103       31-Dec-22       12: Apr-23       31-Dec-22       15: Apr-23       31         08-3020-2(M57)       Remove Surcharge at West Edge Area (Area 7B1) (30,500m3 @ 4000m 3'd)       45       45       0%       31-Dec-22       12: Apr-23       31-Dec-22       15: Apr-23       31       31       31       31		Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level (B			73%							
Reclamation Works       207       103       04-Jun-22A       12-Apr-23       13-Dec-22       15-Apr-23       3       100-20-20       15-Apr-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23       10-20-23												
Surcharge Filling       39       18       04-Jun-22 A       17-Jan-23       03-Jan-23       20-Jan-23       3       Image: Construction of Caissons Extension from +3mPD to Deck Level       103       18       53.85%       04-Jun-22 A       17-Jan-23       03-Jan-23       20-Jan-23       3       Image: Construction of Caissons Extension from +3mPD to Deck Level       103       18       53.85%       04-Jun-22 A       17-Jan-23       03-Jan-23       20-Jan-23       3       Image: Construction of Caissons Extension from +3mPD to Deck Level       103       18       53.85%       04-Jun-23       18-Mar-23       21-Jan-23       21-Jan-23       3       Image: Construction of Caissons Extension from +3mPD to Deck Level       103       103       18-Jan-23       18-Mar-23       21-Jan-23       21-Jan-23       3       Image: Construction of Caissons Extension from +3mPD to Deck Level       103       103       103       103       10-Dec-22       12-Apr-23       31-Dec-22       15-Apr-23       3       Image: Construction of Caissons Extension from +3mPD to Deck Level       103       10-Dec-22       12-Apr-23       13-Feb-23       0       Image: Construction of Caissons Extension from +3mPD to Deck Level       103       10-Dec-22       12-Apr-23       13-Feb-23       0       Image: Construction of Caissons Extension from +3mPD to Deck Level       105       10-Dec-23       12-Apr-23	-											
• 08-3080(6)       Fill up +7.5 to +15mPD at South Edge Area (Area 5) (96,700m 3 @ 2500m 3'd)       39       18       53.85%       04-Jun-22 A       17-Jan-23       03-Jan-23       3       3         • Surcharge Period       60       60       18-Jan-23       18-Mar-23       21-Jan-23       3       3							· ·					
08-3130(6)       Loading @ +11&+13mPD at South Edge Area (Area 5)       60       60       0%       18-Jan-23       21-Jan-23       21-Jan-23       3       3       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1		Fill up +7.5 to +15mPD at South Edge Area (Area 5) (96,700m3 @ 2500m 3/d)			53.85%							
Surcharge Removal         103         103         31-Dec-22         12-Apr-23         31-Dec-23         3           08-3200-2(M57)         Remove Surcharge at West Edge Area (Area 7B1) (30,500m3 @ 4000m3/d)         45         45         0%         31-Dec-22         13-Feb-23         13-Feb-23         0         1         31-Dec-22         13-Feb-23         15-Apr-23         3         0         1         31-Dec-22         13-Feb-23         15-Apr-23         20         1         1         31-Dec-22         13-Feb-23         15-Apr-23         20         0         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1												
08-3200-2(M57)        Remove Surcharge at West Edge Area (Area 7B1) (30,500m3 @ 4000m 3'd)        45         45         0%         31-Dec-22         13-Feb-23         31-Dec-22         13-Feb-23         15-Apr-23         22-Mar-23         15-Apr-23         3         15-Apr-23         3         15-Apr-23         15-Apr-		Loading @ +11&+13mPD at South Edge Area (Area 5)			0%							18-Jan-23 🗖
Breakwater         120         30         31-May-22 A         29-Jan-23         12-Oct-23         10-Nov-23         285           Remain Works         120         30         31-May-22 A         29-Jan-23         12-Oct-23         10-Nov-23         285           08-1300         Construction of Caissons Extension from +3mPD to Deck Level         120         30         75%         31-May-22 A         29-Jan-23         12-Oct-23         10-Nov-23         285		Remove Surcharge at West Edge Area (Area 7B1) (30,500 m3 @ 400 0m 3/d)			0%							
Remain Works         120         30         31-May-22 A         29-Jan-23         12-Oct-23         10-Nov-23         285           08-1300         Construction of Caissons Extension from +3mPD to Deck Level         120         30         75%         31-May-22 A         29-Jan-23         12-Oct-23         10-Nov-23         285         10-Nov-24         10-Nov-23         10-Nov-24	08-3210(6)			25	0%	19-Mar-23	12-Apr-23	22-Mar-23	15-Apr-23			
08-1300       Construction of Caissons Extension from +3mPD to Deck Level       120       30       75%       31-May-22 A       29-Jan-23       12-Oct-23       10-Nov-23       285								_				
		Construction of Caissons Extension from +3mPD to Deck Level			75%							
Remaining Work • Actual Milestone								_		Domoining Work		
Month Rolling Programme (December 2022)	Month Rolling	g Programme (December 2022)								-		

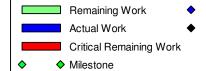
ct No. EP/SP/6 Facilities, Pha	
	Feb Mar
	63 64
03-Feb-23,	, Manufacture and Factory Acceptance Test (FAT)
04-Feb-23	
	23-Mai
	24-Mar-23
	Datab 1
3, EOTC Delivery to Site E	
	16-Mar-23
	15-Mar-23, Facto
	16-Mar-23
mission and Approval, Ma	aterial Submission and Approval, 03-Jan-23
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	03-Mar-23
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	04 Max 00
	01-Mar-23
	01-Mar-23
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an-23	
	Process Building (FGC & TPU)
Treatment Plant (30d), 12-	
Treatment Plant (30d), 12-, d), 31-Dec-22	
Treatment Plant (30d), 12- 1), 31-Dec-22	Jan-23
Treatment Plant (30d), 12-, J), 31-Dec-22	Jan-23 ♦ Compress
d), 31-Dec-22	Jan-23 ♦ Compress ♦ Elevated Drive Way and Ass
d), 31-Dec-22	Jan-23 ♦ Compress ♦ Elevated Drive Way and Ass
d), 31-Dec-22	Jan-23 ♦ Compress ♦ Elevated Drive Way and Ass
d), 31-Dec-22	Jan-23 ♦ Compress ♦ Elevated Drive Way and Ass
Treatment Plant (30d), 12- 1), 31-Dec-22 F Substation (90d), 18-Jan	Jan-23 ♦ Compress ♦ Elevated Drive Way and Ass
d), 31-Dec-22	Jan-23 ♦ Compress ♦ Elevated Drive Way and Ass
d), 31-Dec-22	Jan-23 ♦ Compress ♦ Elevated Drive Way and Ass
d), 31-Dec-22	Jan-23 ♦ Compress ♦ Elevated Drive Way and Ass
d), 31-Dec-22	Jan-23 ♦ Compress ♦ Elevated Drive Way and Ass
d), 31-Dec-22	Jan-23 Compress Elevated Drive Way and Ass -23
d), 31-Dec-22	Jan-23 ♦ Compress ♦ Elevated Drive Way and Ass
d), 31-Dec-22	Jan-23 Compress Elevated Drive Way and Ass -23
i), 31-Dec-22	Jan-23 ◆ Compress ◆ Elevated Drive W ay and Ass 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-
d), 31-Dec-22	Jan-23 ◆ Compress ◆ Elevated Drive W ay and Ass 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-
d), 31-Dec-22	Jan-23 ◆ Compress ◆ Elevated Drive W ay and Ass 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-
d), 31-Dec-22	Jan-23 ◆ Compress ◆ Elevated Drive W ay and Ass 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-
d), 31-Dec-22	Jan-23 ◆ Compress ◆ Elevated Drive W ay and Ass 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-
d), 31-Dec-22	Jan-23 ◆ Compress ◆ Elevated Drive W ay and Ass 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-
d), 31-Dec-22	Jan-23 ◆ Compress ◆ Elevated Drive W ay and Ass 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-
d), 31-Dec-22	Jan-23 Compress Elevated Drive Way and Ass -23 truction of Seawall and Wave Wall Extension from +3mP truction of Seawall and Wave Wall Extension from +3mP
d), 31-Dec-22	Jan-23 ◆ Compress ◆ Elevated Drive W ay and Ass 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-23 1-
d), 31-Dec-22	Jan-23 Compress Elevated Drive Way and Ass -23 truction of Seawall and Wave Wall Extension from +3mP truction of Seawall and Wave Wall Extension from +3mP
d), 31-Dec-22	Jan-23 Compress Elevated Drive Way and Ass -23 truction of Seawall and Wave Wall Extension from +3mP truction of Seawall and Wave Wall Extension from +3mP
d), 31-Dec-22	Jan-23 ◆ Compress ◆ Elevated Drive Way and Ass 23 truction of Seawall and Wave Wall Extension from +3mP truction of Seawall and Wave Wall Extension from +3mP truction of Seawall and Wave Wall Extension from +3mP PD at South Edge Area (Area 5) (96,700m3 @ 2500m 3/d)
d), 31-Dec-22	Jan-23 ◆ Compress ◆ Elevated Drive Way and Ass P23 P23 Truction of Seawall and Wave Wall Extension from +3mP Truction of Seawall and Wave Wall Extension from +3mP P1 at South Edge Area (Area 5) (96,700 m3 @ 2500 m 3 d) 18-Mar-23, L
i), 31-Dec-22	Jan-23 ◆ Compress ◆ Elevated Drive Way and Ass P-23 Presson truction of Seawall and Wave Wall Extension from +3mP truction of Seawall and Wave Wall Extension from +3mP truction of Seawall and Wave Wall Extension from +3mP PD at South Edge Area (Area 5) (96,700 m3 @ 2500 m 3/d) PD at South Edge Area (Area 5) (96,700 m3 @ 2500 m 3/d) 18-Mar-23, L 13-Feb-23, Remove Surcharge at West Edge Area (Area
i), 31-Dec-22	Jan-23 ◆ Compress ◆ Elevated Drive Way and Ass P23 P23 Truction of Seawall and Wave Wall Extension from +3mP Truction of Seawall and Wave Wall Extension from +3mP P1 at South Edge Area (Area 5) (96,700 m3 @ 2500 m 3 d) 18-Mar-23, L
d), 31-Dec-22	Jan-23 ◆ Compress ◆ Elevated Drive Way and Ass P-23 Presson truction of Seawall and Wave Wall Extension from +3mP truction of Seawall and Wave Wall Extension from +3mP truction of Seawall and Wave Wall Extension from +3mP PD at South Edge Area (Area 5) (96,700 m3 @ 2500 m 3/d) PD at South Edge Area (Area 5) (96,700 m3 @ 2500 m 3/d) 18-Mar-23, L 13-Feb-23, Remove Surcharge at West Edge Area (Ar
d), 31-Dec-22	Jan-23 ◆ Compress ◆ Elevated Drive Way and Ass P-23 Presson truction of Seawall and Wave Wall Extension from +3mP truction of Seawall and Wave Wall Extension from +3mP truction of Seawall and Wave Wall Extension from +3mP PD at South Edge Area (Area 5) (96,700 m3 @ 2500 m 3/d) PD at South Edge Area (Area 5) (96,700 m3 @ 2500 m 3/d) 18-Mar-23, L 13-Feb-23, Remove Surcharge at West Edge Area (Ar
d), 31-Dec-22	Jan-23 ◆ Compress ◆ Elevated Drive Way and Ass P-23 Presson truction of Seawall and Wave Wall Extension from +3mP truction of Seawall and Wave Wall Extension from +3mP truction of Seawall and Wave Wall Extension from +3mP PD at South Edge Area (Area 5) (96,700 m3 @ 2500 m 3/d) PD at South Edge Area (Area 5) (96,700 m3 @ 2500 m 3/d) 18-Mar-23, L 13-Feb-23, Remove Surcharge at West Edge Area (Ar
d), 31-Dec-22	Jan-23 ◆ Compress ◆ Elevated Drive Way and Ass +23 truction of Seawall and Wave Wall Extension from +3mP truction of Seawall and Wave Wall Extension from +3mP truction of Seawall and Wave Wall Extension from +3mP PD at South Edge Area (Area 5) (96,700m3 @ 2500m 3/d 18-Mar-23, L 13-Feb-23, Remove Surcharge at West Edge Area (Ar 19-Mar-23
d), 31-Dec-22	Jan-23 ◆ Compress ◆ Elevated Drive Way and Ass +23 truction of Seawall and Wave Wall Extension from +3mP truction of Seawall and Wave Wall Extension from +3mP truction of Seawall and Wave Wall Extension from +3mP PD at South Edge Area (Area 5) (96,700m3 @ 2500m 3/d 18-Mar-23, L 13-Feb-23, Remove Surcharge at West Edge Area (Ar 19-Mar-23
d), 31-Dec-22	Jan-23 ◆ Compress ◆ Elevated Drive Way and Ass +23 truction of Seawall and Wave Wall Extension from +3mP truction of Seawall and Wave Wall Extension from +3mP truction of Seawall and Wave Wall Extension from +3mP PD at South Edge Area (Area 5) (96,700m3 @ 2500m 3/d 18-Mar-23, L 13-Feb-23, Remove Surcharge at West Edge Area (Ar 19-Mar-23
d), 31-Dec-22	Jan-23 ◆ Compress ◆ Elevated Drive Way and Ass +23 truction of Seawall and Wave Wall Extension from +3mP truction of Seawall and Wave Wall Extension from +3mP truction of Seawall and Wave Wall Extension from +3mP PD at South Edge Area (Area 5) (96,700m3 @ 2500m 3/d 18-Mar-23, L 13-Feb-23, Remove Surcharge at West Edge Area (Ar 19-Mar-23
i), 3 1-Dec-22 Substation (90d), 18-Jan 29-Jan-23, Const 29-Jan-23, Const	Jan-23 ◆ Compress ◆ Elevated Drive Way and Ass +23 truction of Seawall and Wave Wall Extension from +3mP truction of Seawall and Wave Wall Extension from +3mP truction of Seawall and Wave Wall Extension from +3mP PD at South Edge Area (Area 5) (96,700m3 @ 2500m 3/d 18-Mar-23, L 13-Feb-23, Remove Surcharge at West Edge Area (Ar 19-Mar-23

	Activity Name	Original Duration	Remaining Duration	Activity % Current Start Complete	Current Finish	Late Start	Late Finish	Total Float M61 Remarks	Dec	Jan
Remain Works		30	30	31-Dec-22	29-Jan-23	12-Sep-23	11-Oct-23	255	61	62
08-1330(2)	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level	30	30	0% 31-Dec-22	29-Jan-23	12-Sep-23	11-Oct-23	255	31-Dec-22	
Seawater Intake Structur 08-2400(6D)	re Construction of Seawater Intake	90 90	90 90	01-Mar-23 0% 01-Mar-23	29-May-23 29-May-23	14-Jul-23 14-Jul-23	11-Oct-23 11-Oct-23	135 135		
oundation Works		317	133	31-May-22 A	12-May-23	23-Dec-22	22-Aug-23	102		-
	ng Gallery Bld Foundation	15	3	04-Oct-22 A	02-Jan-23	08-Jul-23	10-Jul-23	189		
Administration Piling Work	ks (Driven H-pile)	15	3	04-Oct-22 A	02-Jan-23	08-Jul-23	10-Jul-23	189		
09-1055(6)	Predrilling for Driven Pile founding determination (15 nr ~60m, @15m/d, 4 Rigs)	15	3	80% 04-Oct-22 A	02-Jan-23	08-Jul-23	10-Jul-23	189		02-Jan-23, Predril
rocess Building - Wasi Process Building Pile Cap	te Bunker & Tipping Hall Bld Foundation	79 79	79 79	15-Dec-22 A 15-Dec-22 A	20-Mar-23 20-Mar-23	03-Jan-23 03-Jan-23	08-Aug-23	142 142		
Pile Cap Stage 1 (Module		46	40	15-Dec-22 A	08-Feb-23		11-Feb-23	3		
Process Building (Modul		40	40	31-Dec-22	08-Feb-23	03-Jan-23	11-Feb-23	3		
09-1180	Excavation to Pile Cap Formation	25 19	25 19	0% 31-Dec-22	24-Jan-23	03-Jan-23	27-Jan-23	3	31-Dec-22	
09-1190	Pile Cut-off & Capping Plate (76 nrs, 4nr/d) Pile Caps Construction (26nrs 8set @ 1/7d)	23	23	0% 09-Jan-23 0% 17-Jan-23	27-Jan-23 08-Feb-23	12-Jan-23 20-Jan-23	30-Jan-23 11-Feb-23	3		09-Jan-23 🗖 17-Jan-23 🗖
Process Building (Modul		32	16	15-Dec-22 A	15-Jan-23	06-Jan-23	21-Jan-23	6		
09-2410	Pile Caps and Raft Foundation Construction (50m x 36m 4set @100m2/7d)	32	16	50% 15-Dec-22 A	15-Jan-23		21-Jan-23	6	1,15-Dec-22A	1
Pile Cap Stage 2 (Module		60	60		28-Feb-23	05-Feb-23		144		
Process Building (Modul 09-1210	Excavation to Pile Cap Formation	35 25	35 25	25-Jan-23 0% 25-Jan-23	28-Feb-23 18-Feb-23	12-Feb-23 12-Feb-23	22-Jul-23 08-Mar-23	144		25-J
09-1220	Pile Cut-off & Capping Plate (51 nrs, 4nr/d)	13	13	0% 09-Feb-23	21-Feb-23	27-Feb-23	11-Mar-23	18		1
09-1230	Pile Caps Construction (22nrs 8set @ 1/7d)	20	20	0% 09-Feb-23	28-Feb-23	27-Feb-23	18-Mar-23	18		]
09-2370	Excavation to Pile Raft Foundation Formation	28	28	0% 29-Jan-23	25-Feb-23	25-Jun-23	22-Jul-23	147		
Process Building (Modul 09-2380	Pile Cut-off & Capping Plate (207 nrs, 8nr/d)	41 27	41 27	31-Dec-22 0% 31-Dec-22	10-Feb-23 27-Jan-23	05-Feb-23 05-Feb-23	18-Mar-23 04-Mar-23	37 37	31-Dec-22	
09-2390	Pile Caps and Raft Foundation Construction (50m x 36m 4set @100m2/7d)	36	36	0% 05-Jan-23	10-Feb-23	10-Feb-23	18-Mar-23	37	05-Ja	
Pile Cap Stage 3 (Module		79	79	31-Dec-22	20-Mar-23	08-Jan-23		142		
Process Building (Modul		42	42	31-Dec-22	11-Feb-23	08-Jan-23	27-Jun-23	137		<u>_</u>
09-1240	Excavation to Pile Raft Foundation Formation	25 17	25 17	0% 31-Dec-22	25-Jan-23	08-Jan-23	02-Feb-23	9	31-Dec-22	
09-1250	Pile Cut-off & Capping Plate (168 nrs, 10nr/d) Pile Caps and Raft Foundation Construction (60m x 24m 4set@100m2/7day)	26	26	0% 11-Jan-23 0% 14-Jan-23	28-Jan-23 09-Feb-23	01-Jun-23 01-Jun-23	18-Jun-23 27-Jun-23	142 139		11-Jan-23 14-Jan-23
09-2550	Excavation to Pile Cap Formation	25	25	0% 07-Jan-23	01-Feb-23	15-Jan-23	09-Feb-23	9	07-	Jan-23
09-2560	Pile Cut-off & Capping Plate (22 nrs, 4nr/d)	6	6	0% 29-Jan-23	04-Feb-23	06-Feb-23	12-Feb-23	9		
09-2570	Pile Caps Construction (5nrs 2set @ 1/7d)	18	18	0% 24-Jan-23	11-Feb-23	01-Feb-23	19-Feb-23	9		24-J
Process Building (Modul 09-2420	Ile 3) Bunker Excavation to Pile Raft Foundation Formation	39 25	39 25	09-Feb-23 0% 09-Feb-23	20-Mar-23 06-Mar-23	27-Jun-23 27-Jun-23	08-Aug-23 22-Jul-23	142 139		-
09-2420	Pile Cut-off & Capping Plate (338 nrs, 15nr/d)	25	25	0% 09-Feb-23	06-Mar-23	27-Juli-23 16-Jul-23	08-Aug-23	153		
09-2440	Pile Caps and Raft Foundation Construction (60m x 32m 4set@100m2/7day)	20	20	0% 28-Feb-23	20-Mar-23	16-Jul-23	05-Aug-23	139		
rocess Building - Boild	er & Flue Gas Treatment Bld Foundation	134	81	21-Sep-22 A	21-Mar-23	25-Dec-22	15-Mar-23	-6		
v	uilding & Flue Gas Foundation	87	35	21-Sep-22 A	03-Feb-23		28-Jan-23	-6		
Process Building Pile Cap Process Building (Modul		87 87	35 35	21-Sep-22 A 21-Sep-22 A	03-Feb-23 03-Feb-23	25-Dec-22 25-Dec-22		-6 -6		
09-1460	Excavation to Pile Cap Formation	45	21	53.33% 21-Sep-22 A	20-Jan-23		14-Jan-23	-6		
09-1470	Pile Cut-off & Capping Plate (376 nrs, 10nr/d)	38	5	86.84% 19-Oct-22 A	27-Jan-23	17-Jan-23	21-Jan-23	-6		<b>-</b> 3
09-1480	Pile Caps Construction (52 nrs, 4set @1/7d)	87	17		03-Feb-23	12-Jan-23	28-Jan-23	-6		4
RC Base Slab 10-1600	Base Slab Stage 3 (Module 3)	50 50	46 46	23-Dec-22 A 8% 23-Dec-22 A	21-Mar-23 21-Mar-23	29-Jan-23 29-Jan-23	15-Mar-23 15-Mar-23	-6 -6	8-Dec-22 A, 23-Dec-22 A	
CC Equipment Founda		126	65	24-Oct-22 A	05-Mar-23	08-Feb-23		48		
ACC Piling Works (Driven		104	43	24-Oct-22 A	11-Feb-23	08-Feb-23		70		
09-1670-11	Driven H Pile Installations at Zone 2 (30 nrs ~55m(D), @60m/d 2 Groups) (Modul	28	14	50% 24-Oct-22 A	13-Jan-23		21-Feb-23	39		13
09-1670-12(6F)	Driven H Pile Installations at Zone 4 (31 nrs ~55m(D), @60m/d 2 Groups) (Modul	28	28	0% 31-Dec-22	27-Jan-23	08-Feb-23	07-Mar-23	39	31-Dec-22	
09-1680 ACC Pile Cap Construction	Pile Load Test	15 51	15 51	0% 28-Jan-23 14-Jan-23	11-Feb-23 05-Mar-23	08-Apr-23 22-Feb-23	· · · · · · · · · · · · · · · · · · ·	70 39		
09-1690	Excavation to Pile Cap Formation (Module 1)	14	14	0% 14-Jan-23	27-Jan-23	22-Feb-23	07-Mar-23	39		14-Jan-23 💻
09-1700	Pile Cut-off & Capping Plate (Module 1)	18	18	0% 21-Jan-23	07-Feb-23	01-Mar-23	18-Mar-23	39		21-Jan-
09-1710	Pile Caps Construction (Module 1)	30	30	0% 21-Jan-23	19-Feb-23	01-Mar-23	30-Mar-23	39		21-Jan-
09-1710-1(6)	Tie Beams Construction (Module 1 @+6.5mPD)	30	30	0% 04-Feb-23	05-Mar-23	15-Mar-23	13-Apr-23	39 delink FS to Module 2&3 cap construction	Pile	
		05.4	70		40.1400	00 D 00	07.1400			
urbine Hall Bld Found Turbine Hall Piling Works (		254 163	70 19	31-May-22 A 31-May-22 A	10-Mar-23 18-Jan-23	26-Dec-22 26-Dec-22	27-Mar-23	-5		
09-1730-1(M55)	Driven H Pile Installations (143 nrs ~55m(D), @60m/d 2 Groups)	68	15	77.94% 31-May-22 A	14-Jan-23	26-Dec-22		-5		D
09-1740	Pile Load Test	8	4	50% 15-Nov-22 A	18-Jan-23	10-Jan-23	13-Jan-23	-5		
Turbine Hall Pile Caps Con		51	51		10-Mar-23		27-Mar-23	17		+
09-1750 09-1760	Excavation to Pile Cap Formation	21 21	21 21	0% 19-Jan-23	08-Feb-23 13-Feb-23	14-Jan-23	03-Feb-23 12-Feb-23	-5		19-Jan-23 24-J
09-1780	Pile Cut-off & Capping Plate (219 nrs, @10nr/d) Pile Caps and Ground Beam Construction for TBS1 & Electrical Bld to +6.3mPD	30	30	0% 24-Jan-23 0% 26-Jan-23	24-Feb-23	23-Jan-23 21-Jan-23	12-Feb-23	-5		24-J
09-1770-1(M58)	Install anchor bolts & Floor Finishes for TBS1 @+6.3mPD (Post-drilling)	14	14	0% 25-Feb-23	10-Mar-23	14-Mar-23	27-Mar-23	17		
ompressor & CCCW B		164	133	26-Nov-22 A	12-May-23	17-Apr-23	03-Jul-23	52		1
								Remaining Work	Actual Milestone	
ionth Kollin	ng Programme (December 2022)							C C		
16 of 18								Actual Work	<ul> <li>Critical Milestone</li> </ul>	

ct No. EP/SP/66/12 Facilities, Phase 1
Feb Mar
63 64
29-Jan-23, Construction of Seawall and Wave Wall Extension from +3mPI
01-Mar-23
r Driven Pile founding determination (15 nr ~60m, @15m/d, 4 Rigs), Predrilling for D
24-Jan-23, Excavation to Pile Cap Formation
27-Jan-23, Pile Cut-off & Capping Plate (76 nrs, 4nr/d) 08-Feb-23, Pile Caps Construction (26nrs 8set @ 1/7d)
23, Pile Caps and Raft Foundation Construction (50m x 36m 4set @100m2/7d), Pile
18-Feb-23, Excavation to Pile Cap Formation 09-Feb-23 21-Feb-23, Pile Cut-off & Capping Plate (51 n
09-Feb-23 28-Feb-23, Pile Caps Construction (
In-23 25-Feb-23, Excavation to Pile Raft Found
27-Jan-23, Pile Cut-off & Capping Plate (207 nrs, 8nr/d)     10-Feb-23, Pile Caps and Raft Foundation Construction (50
25-Jan-23, Excavation to Pile Raft Foundation Formation 28-Jan-23, Pile Cut-off & Capping Plate (168 nrs, 10nr/d)
09-Feb-23, Pile Caps and Raft Foundation Construction (60m 01-Feb-23, Excavation to Pile Cap Formation
In-23 04-Feb-23, Pile Cut-off & Capping Plate (22 nrs, 4nr/d) 11-Feb-23, Pile Caps Construction (5nrs 2set @ 1/7d)
09-Feb-23 06-Mar-23, Excavation to Pile 14-Feb-23 09-Mar-23, Pile Cut-off &
28-Feb-23 20-Mar-23,
xcavation to Pile Cap Formation, 20-Jan-23, 20-Jan-23, Excavation to Pile Cap Form Pile Cut-off & Capping Plate (376 nrs, 10nr/d), 27-Jan-23, 27-Jan-23, Pile Cu
Pile Caps Construction (52 nrs, 4set @1/7d), 03-Feb-23, 03-Feb-23,
Base Slat
Driven H Pile Installations at Zone 2 (30 nrs ~55m(D), @60m/d 2 Groups) (Module 27-Jan-23, Driven H Pile Installations at Zone 4 (31 nrs ~55m(D), @60m/d 2 -23 11-Feb-23, Pile Load Test
27-Jan-23, Excavation to Pile Cap Formation (Module 1) 07-Feb-23, Pile Cut-off & Capping Plate (Module 1)
19-Feb-23, Pile Caps Construction (Module 1) 04-Feb-23 05-Mar-23, Tie Beams Cors tru
Pile Installations (143 nrs ~55m(D), @60m/d 2 Groups), 14-Jan-23, 14-Jan-23, Drive Load Test, 18-Jan-23, 18-Jan-23, Pile Load Test
08-Feb-23, Excavation to Pile Cap Formation 13-Feb-23, Pile Cut-off & Capping Plate (219 nrs, @10r 24-Feb-23, Pile Caps and Ground Beam 25-Feb-23
25-Feb-23 10-Mar-23, Install ancho

古 質 五 格 数 一 紙 筆 別 KEPPELSEGIERS-ZHEN HUA/O							_		Integrated Was	ste Management
	Activity Name	Original Duration	Remaining Duration	Activity % Current Start Complete	Current Finish	Late Start	Late Finish	Total Float M61 Remarks	2022 Dec 61	Jan 62
CCCW Piling Works (Dri		8	4	26-Nov-22 A	03-Jan-23	·	20-Apr-23	107		
09-2330 CCCW Pile Caps Constr	Pile Load Test	8 61		50% 26-Nov-22 A 13-Mar-23	03-Jan-23 12-May-23	17-Apr-23 21-Apr-23	20-Apr-23	107 52		03-Jan-23, Pile Load Te
09-2340	Excavation to Pile Cap Formation	43		0% 13-Mar-23	24-Apr-23	21-Apr-23	02-Jun-23	39		
09-2350-1(6)	Pile Caps Construction to +5.85mPD (9 nrs, @0.2nr/d)	45	45	0% 29-Mar-23	12-May-23	20-May-23	03-Jul-23	52		
MT Plant & WT Bld Fo		186	108	27-Oct-22 A	17-Apr-23	23-Dec-22		-8		
MT Plant & WT Bld Pilin		186		27-Oct-22 A	17-Apr-23		09-Apr-23	-8		
MT & WT Plant (Driven 09-1860(6)	Predrilling for Driven Pile founding determination (56nr ~60m, @15m/d, 8 Rigs)	186 28		27-Oct-22 A 75% 27-Oct-22 A	17-Apr-23 06-Jan-23	23-Dec-22 03-Apr-23	09-Apr-23 09-Apr-23	-8 93		06-Jan-23, Predrilli
09-1870-1(M54)	Driven H Pile Installations (314 nrs ~45m(D), @60m/d 2 Group)	118	108	8.47% 23-Dec-22 A	17-Apr-23	23-Dec-22	· ·	-8	3-Dec-22 A, 23-Dec-22 A	
<b>IWMF Substation Buil</b>	ding Foundation	100	108	16-Dec-22 A	17-Apr-23	06-Jan-23	23-Apr-23	6		
IWMF Substation Piling		60		16-Dec-22 A	25-Feb-23		03-Mar-23	6		
09-1980	Driven H Pile Installations (74 nrs ~50m(D), @60m/d 1 Group)	60	49	18.33% 16-Dec-22 A	17-Feb-23	06-Jan-23	23-Feb-23	6	A,16-Dec-22A	
09-1990 IWMF Substation Pile Call	Pile Load Test	8 51	8 51	0% 18-Feb-23 26-Feb-23	25-Feb-23	24-Feb-23	03-Mar-23 23-Apr-23	6		
	Excavation to Pile Cap Formation	30	30	0% 26-Feb-23	27-Mar-23	04-Mar-23	02-Apr-23	6		
09-2010	Pile Cut-off & Capping Plate	30	30	0% 05-Mar-23	03-Apr-23	11-Mar-23	09-Apr-23	6		
09-2020	Pile Caps Construction (24nrs, 4sets @1nr/7d)	30	30	0% 19-Mar-23	17-Apr-23	25-Mar-23	23-Apr-23	6		
Elevated Drive Way an	nd Associated Structures Foundation	59	59	14-Feb-23	13-Apr-23	14-Feb-23	13-Apr-23	0		
_Elevated Drive Way Pilir		59		14-Feb-23	13-Apr-23		13-Apr-23	0		
09-2020(M57)	Predrilling for Driven Pile founding determination (30nr ~60m, @15m/d, 4 Rigs)	23	23	0% 14-Feb-23	08-Mar-23	14-Feb-23	08-Mar-23	0		
09-2030(M57)	Driven H Pile Installations Grid RSA - RSG (248nrs ~50m (D), @60 m/d 4 Groups)	52		0% 21-Feb-23	13-Apr-23	21-Feb-23	13-Apr-23	0		
Pipe Bridge Foundati Pipe Bridge B	on	135 50	50 50	28-Sep-22 A 31-Dec-22	18-Feb-23 18-Feb-23	28-Dec-22	22-Aug-23 13-Mar-23	185 23		
	orks Piling Works ( Driven H-pile)	8		31-Dec-22	07-Jan-23	23-Jan-23		23		
09-2460	Pile Load Test	8	8	0% 31-Dec-22	07-Jan-23	23-Jan-23	30-Jan-23	23	31-Dec-22	07-Jan-23, Pile Lo
Pipe Bridge B Pile Cap		42		08-Jan-23	18-Feb-23		13-Mar-23	23		
09-2470	Excavation to Pile Cap Formation	21	21	0% 08-Jan-23	28-Jan-23	31-Jan-23	20-Feb-23	23	08	8-Jan-23
09-2480	Pile Cut-off & Capping Plate (33 nrs, @ 4nr/d)	21	21	0% 15-Jan-23	04-Feb-23	07-Feb-23	27-Feb-23	23		15-Jan-23
09-2490 Pipe Bridge C	Pile Caps Construction to +5.0mPD (33nr, 4set@ 1nr/7d)	30 95	30 10	0% 20-Jan-23 28-Sep-22 A	18-Feb-23 09-Jan-23	12-Feb-23	13-Mar-23 22-Aug-23	23 225		20-Jan-23 💻
	orks Piling Works ( Driven H-pile)	95		28-Sep-22 A	09-Jan-23		22-Aug-23	225		
09-2500	Driven H Pile Installations (24 nrs ~55m(D), @60m/d 1 Group)	22	2	90.91% 28-Sep-22 A	01-Jan-23	28-Dec-22	29-Dec-22	-3		Driven H Pile Installations
09-2510	Pile Load Test	8	8	0% 02-Jan-23	09-Jan-23	15-Aug-23	22-Aug-23	225	02-Jan-2	3 09-Jan-23, Pile
Superstructural Wo	rks	134	134	31-Dec-22	13-May-23	12-Dec-22	17-Aug-23	96		
Process Buildings - V	Vaste Bunker & Tipping Hall Bld Structure	82	82	23-Jan-23	15-Apr-23	29-Jan-23	16-May-23	32		]
Waste & Ash Bunker Bld		82		23-Jan-23	14-Apr-23	29-Jan-23		32		
Process Building (Mod 10-1090	ule 1) Waste & Ash Bunker Bld Structure Beam & Slab to +2.5mPD	80 14		23-Jan-23 0% 23-Jan-23	12-Apr-23 05-Feb-23	29-Jan-23 29-Jan-23	15-Apr-23 11-Feb-23	<u> </u>		23-Jan-23
10-1090 10-1100	Column & Wall to +6.0m PD	21	21	0% 09-Feb-23	01-Mar-23	12-Feb-23	04-Mar-23	3		
<b>10-1110</b>	Beam & Slab to +6.0mPD	21	21	0% 02-Mar-23	22-Mar-23	05-Mar-23	25-Mar-23	3		
<b>—</b> 10-1120	Column & Wall to +20.0mPD	21	21	0% 23-Mar-23	12-Apr-23	26-Mar-23	15-Apr-23	3		
Process Building (Mod	ule 2) Waste & Ash Bunker Bld Structure	42	42	04-Mar-23	14-Apr-23	22-Mar-23	16-May-23	32		
<b>—</b> 10-1200	Beam & Slab to +2.5mPD	21		0% 04-Mar-23	24-Mar-23	22-Mar-23	11-Apr-23	18		
10-1210	Column & Wall to +6.0m PD	21	21	0% 25-Mar-23	14-Apr-23	26-Apr-23	16-May-23	32		
Process Building (Mod 10-1310	ule 3) Waste & Ash Bunker Bld Structure Beam & Slab to +2.5mPD	<u>14</u> 14		25-Mar-23 0% 25-Mar-23	07-Apr-23 07-Apr-23		25-Apr-23 25-Apr-23	<u>18</u> 18		
Tipping Hall Bld Structu		63		11-Feb-23	15-Apr-23		23-Apr-23	9		
Process Building (Mod		63		11-Feb-23	15-Apr-23	20-Feb-23	23-Apr-23	9		
10-3000(6F)	Slab to +2.0mPD	14	14	0% 11-Feb-23	25-Feb-23	20-Feb-23	05-Mar-23	9		]
10-3010(6F)	Slab to +3.5mPD	21	21	0% 11-Feb-23	04-Mar-23	20-Feb-23	12-Mar-23	9		
= 10-3020(6F)	Column & Wall to +6.5m PD	21	21	0% 04-Mar-23	25-Mar-23	13-Mar-23	02-Apr-23	9		
10-3030(6F)	Beam & Slab to +6.5mPD	21	21	0% 25-Mar-23	15-Apr-23	03-Apr-23	23-Apr-23	9		
Process Buildings - B Steel Structure	Boiler & Flue Gas Treatment Bld Structure	134 134	134 134	31-Dec-22	13-May-23		17-Aug-23	96		
Boiler Building Steel St	tructure	134	134	31-Dec-22 31-Dec-22	13-May-23 13-May-23		17-Aug-23 17-Aug-23	96 96		
	dule 1) Steel Structure Erection	60	60	31-Dec-22	28-Feb-23	20-Apr-23	18-Jun-23	110		
<b>—</b> 10-1640	Roof Cladding Installation	60	60	0% 31-Dec-22	28-Feb-23	20-Apr-23	18-Jun-23	110	31-Dec-22	
	dule 2) Steel Structure Erection	134	134	31-Dec-22	13-May-23	12-Dec-22	-	96		
10-1650	Erection of Mega Columns (2nos @30d /column /gang x 2)	60 60	60	0% 31-Dec-22	28-Feb-23		09-Feb-23	-19	31-Dec-22	
<ul><li>10-1660</li><li>10-1670</li></ul>	Steel Roof Truss Ground Assembly Works Steel Roof Truss Lifting (RM2)	60	60	0% 31-Dec-22	28-Feb-23	12-Dec-22		-19 -19	31-Dec-22	
10-1670 10-1680	Steel Roof Truss Lifting (BM2) Roof Cladding Installation	14 60	14 60	0% 01-Mar-23 0% 15-Mar-23	14-Mar-23 13-May-23	10-Feb-23 19-Jun-23	23-Feb-23 17-Aug-23	-19 96		
	dule 3) Process Building Steel Structure Erection	30	30	25-Mar-23	23-Apr-23	19-Jun-23	17-Aug-23	-6		
10-1690	Erection of Mega Columns (2nos @30d /column /gang x 2)	30	30	0% 25-Mar-23	23-Apr-23	19-Mar-23	17-Apr-23	-6		
Flue Gas Treatment Bld		63		02-Feb-23	05-Apr-23		31-Mar-23	-5		
	dule 1) Steel Structure Erection	53		02-Feb-23	26-Mar-23	15-Jan-23	06-Feb-23	-48		
10-1730	Erection of Mega Columns (2nos @30d /column /gang x 2)	9	9	0% 02-Feb-23	10-Feb-23	15-Jan-23	23-Jan-23	-18		; C

3-Month	Rolling	Programme	(December	2022)
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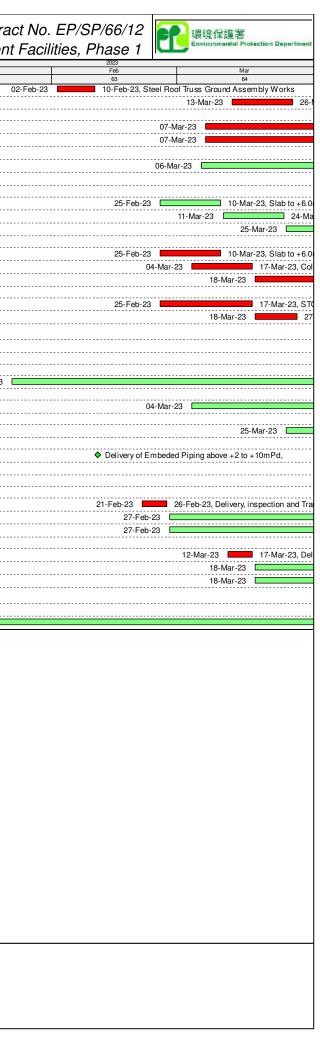
Critical Milestone

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act No. EP/SP/66/12 nt Facilities, Phase 1	最時保護署 Environmental Protection Department
2023 Feb 63	Mar 64
d Test, Pile Load Test, 03-Jan-23	
	13-Mar-23 29-Mar-23
rilling for Driven Pile founding determination	on (56nr ~60m, @15m/d, 8 Rigs), Predrilling f
17-Fe 18-Feb-23	ab-23, Driven H Pile Installations (74 nrs ~50r □ 25-Feb-23, Pile Load Test
26-Feb-2	
	19-Mar-23
14-Feb-23 21-Feb-23	08-Mar-23, Predrilling for I
e Load Test	
	Cap Form ation ff & Capping Plate (33 nrs, @ 4nr/d) eb-23, Pile Caps Construction to +5.0mPD (
ons (24 nrs ~55m(D), @60m/d 1 Group), 0 Pile Load Test	1-Jan-23, 01-Jan-23, Driven H Pile Installatio
05-Feb-23, Beam & 09-Feb-23	01-Mar-23, Column & Wall to +6.0r Mar-23 22-Mar-2 22-Mar-2
02	23-Mar-23 24-Ma 1-Mar-23 24-Ma 25-Mar-23
	25-Mar-23
	25-Feb-23, Slab to +2.0mPD     04-Mar-23, Slab to +3.5mPD     25-Mar-23     25-Mar-23
	28-Feb-23, Roof Cladding Installation
01-Ma	
	15-Mar-2325-Mar-23
02-Feb-23 10-Feb-23, Er	ection of Mega Columns (2nos @30d /column

REPPEL SEGRERS - ZHEN HUAR	Activity Name	Original	Remaining		Current Start	Current Finish	Late Start	Late Finish	Total Float M61 Remarks	Integrated Was	
		Duration	Duration	n Complete						Dec 61	Jan 62
= 10-1740	Steel Roof Truss Ground Assembly Works	9	9	0%	02-Feb-23	10-Feb-23	15-Jan-23	23-Jan-23	-18		
10-1750	Steel Roof Truss Lifting (FM1)	14	14	0%	13-Mar-23	26-Mar-23	24-Jan-23	06-Feb-23	-48		
rocess Building (Mo	dule 2) Steel Structure Erection	30	30	)	07-Mar-23	05-Apr-23	02-Mar-23	31-Mar-23	-5		
10-1770	Erection of Mega Columns (1nos @30d /column /gang x 1)	30	30	0%	07-Mar-23	05-Apr-23	02-Mar-23	31-Mar-23	-5		
10-1780	Steel Roof Truss Ground Assembly Works	30	30	0%	07-Mar-23	05-Apr-23	02-Mar-23	31-Mar-23	-5		
📥 ACC Equipment Struc	cture	30	30		06-Mar-23	04-Apr-23	14-Apr-23	13-May-23	39		1
09-1720	Base Slab Construction (Module 1 @+6.5mPD)	30	30	0%	06-Mar-23	04-Apr-23	14-Apr-23	13-May-23	39		
Turbine Hall Bld Stru	cture	42	42	2	25-Feb-23	07-Apr-23	20-Feb-23	02-May-23	25		
Turbine Hall Electrical B	Bid	42	42		25-Feb-23	07-Apr-23	22-Mar-23	02-May-23	25		
10-1910	Slab to +6.0mPD	14	14	0%	25-Feb-23	10-Mar-23	22-Mar-23	04-Apr-23	25		
10-1920	Column & Wall to +15.0mPD	14	14	0%	11-Mar-23	24-Mar-23	05-Apr-23	18-Apr-23	25		
10-1930	Beam & Slab to +15.0mPD	14	14	0%	25-Mar-23	07-Apr-23	19-Apr-23	02-May-23	25		
Turbine Hall TBS1		35	35		25-Feb-23	31-Mar-23	20-Feb-23	26-Mar-23	-5		
10-2300	Slab to +6.0mPD	14	14	0%	25-Feb-23	10-Mar-23	20-Feb-23	05-Mar-23	-5		-
10-2310	Column & Wall to +15.0mPD & +23.5mPD	14	14	0%	04-Mar-23	17-Mar-23	27-Feb-23	12-Mar-23	-5		
10-2320	Beam & Slab to +28.0mPD	14	14	0%	18-Mar-23	31-Mar-23	13-Mar-23	26-Mar-23	-5		
The string of th		31	31		25-Feb-23	27-Mar-23	21-Feb-23	23-Mar-23	-4		
10-1990-1(M58)	STG Foundation construction and install anchor bolts @ +9.5	21	21	0%	25-Feb-23	17-Mar-23	21-Feb-23	13-Mar-23	-4		1
10-1990-2(M58)	STG Foundation construction and install anchor bolts @ +10.77	10	10	0%	18-Mar-23	27-Mar-23	14-Mar-23	23-Mar-23	-4		
Process Equipmen	t Installation	241	241		23-Jan-23	20-Sep-23	25-Dec-22	24-Jan-24	126		
	Waste Bunker & Tipping Hall Bld Process Equipment Installation	241	241		23-Jan-23	20-Sep-23	19-Feb-23	24-Jan-24	126		
	Installation and Connection Works	241	241		23-Jan-23	20-Sep-23		24-Jan-24	126		
Process Building (Mod		180	180		23-Jan-23	21-Jul-23		25-Dec-23	157		<u> </u>
12-3000(6F)	Embeded Piping Installation	180	180	, , , , , , , , , , , , , , , , , , , ,	23-Jan-23	21-Jul-23	29-Jun-23	25-Dec-23	157		23-Jan-23
Process Building (Mod	dule 2)	180	180		04-Mar-23	30-Aug-23	24-Jul-23	19-Jan-24	142		
= 12-3040(6F)	Embeded Piping Installation	180	180	0%	04-Mar-23	30-Aug-23	24-Jul-23	19-Jan-24	142		
Frocess Building (Mod	dule 3)	180	180		25-Mar-23	20-Sep-23	29-Jul-23	24-Jan-24	126		
12-3080(6F)	Embeded Piping Installation	180	180	0%	25-Mar-23	20-Sep-23	29-Jul-23	24-Jan-24	126		
Frocess Building (WW	TP)	0	0		11-Feb-23	11-Feb-23	19-Feb-23	19-Feb-23	9		
12-3120(6F)	Delivery of Embeded Piping above +2 to +10mPd	0	0	0%		11-Feb-23		19-Feb-23	9		
🖕 Process Buildings - E	Boiler House & Flue Gas Treatment Bld Process Equipment Installation	145	145	i	21-Feb-23	15-Jul-23	25-Dec-22	26-Oct-23	103		
Process Building (Insta	Ilation TPU Module)	145	145		21-Feb-23	15-Jul-23	25-Dec-22	26-Oct-23	103		
TPU Train 1		126	126	;	21-Feb-23	26-Jun-23	25-Dec-22	26-Oct-23	122		]
13-1030	Delivery, inspection and Transport Boiler Train to Position by SPMT (TPU Train 1)	6	6	0%	21-Feb-23	26-Feb-23	25-Dec-22	30-Dec-22	-58		
13-1040	Boiler Condition Check and Repair	70	70	0%	27-Feb-23	07-May-23	18-Jun-23	26-Aug-23	111		
13-1050	Remaining Equipment Installation at GL	120	120	0%	27-Feb-23	26-Jun-23	29-Jun-23	26-Oct-23	122		1
TPU Train 2		126	126	3	12-Mar-23	15-Jul-23	31-Dec-22	26-Oct-23	103		
13-1120	Delivery, inspection and Transport Boiler Train to Position by SPMT (TPU Train 2)	6	6	0%	12-Mar-23	17-Mar-23	31-Dec-22	05-Jan-23	-71		j
<b>—</b> 13-1130	Boiler Condition Check and Repair	70	70	0%	18-Mar-23	26-May-23	19-Jul-23	26-Sep-23	123		
<b>—</b> 13-1140	Remaining Equipment Installation at GL	120	120	0%	18-Mar-23	15-Jul-23	29-Jun-23	26-Oct-23	103		
Landscape. Externa	al Road and Drains Works	180	140	)	28-Apr-22 A	19-May-23	19-May-23	05-Oct-23	139		
Earthing System		180	140		28-Apr-22 A	19-May-23	19-May-23	05-Oct-23	139		; 
16-1900-2(6)	Installation of Ground Earthing Mesh	180	140		28-Apr-22 A	19-May-23		05-Oct-23	139		<u> </u>

3-Month Rolling Programme (December 2022) Page 18 of 18		Remaining Work	<ul><li>♦</li></ul>	<ul> <li>Actual Milestone</li> <li>Critical Milestone</li> </ul>
raye to ut to		Critical Remaining Worl	k	
	♦      ∢	Milestone		



# Appendix B Summary of Implementation Status of Environmental Mitigation

## Appendix B

Table B.I Inplementation Schedule for Air Quality measures for the IWMF at the artificial Island hear SKC	Table B.1	Implementation Schedule for Air Quality Measures for the IWMF at the artificial island near	r SKC
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				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
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>	During the construction period	Contractor					Control (Construction	Deficiency of Mitigation Measures but rectified by the Contractor. N/A for dust control measures for transportation outside site boundary

Keppel Seghers – Zhen Hua Joint Venture

	Environmental Protection			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	
	<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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				Imple	ementa	tion 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>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 NOx; tighten emission limit for halfhourly and daily NOx to 160 mg/m<sup>3</sup> and 80 mg/m<sub>3</sub> 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> <li>Limit levels will be set under the IWMF DBO contract to require that waste feed shall cease if any of the air pollutant has</li> </ol> </li> </ul>	design & operation phase	Agent						Remarks
	exceeded 95% of the emission concentration limit as stipulated								
	in the Special Process license; and								

				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	
	<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.								
	<ul> <li>Provided that there is no non-</li> </ul>								
	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	Environmental Protection 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- conformance to the leasthability</li> </ul>								
	conformance to the leachability								
	criteria shown in Table 2 of the Environmental Permit throughout a								
	continuous six month period in the								

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				Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation De Agent	Des	С	0	Dec	Legislation and Guidelines	
	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

	Environmental Protection				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
S4b.8	Good site practices to limit noise emissions a source and use of quiet plant and working methods, whenever practicable.		EPD and contractors	its		~			EIAO-TM	Implemented
S4b.6 & S4b.8	<ul> <li>All the ventilation fans installed in the below will be provided with silencers or acoustics treatment.</li> <li>(i) Stack of the incinerator</li> <li>(ii) Ventilation systems within the IWMF Enclosure and discharge silencer or other acoustic treatment equipment should be installed in the air-cooled chillers</li> <li>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.</li> <li>(i) The exhaust of the ventilation system and any opening of the building should be located facing away from any NSRs; and</li> <li>(ii) Louver or other acoustic treatment equipment to the any opening of the any opening of the any opening to the any opening of the building should be located facing away from any NSRs; and</li> </ul>	Within IWMF area / Construction Period	EPD and contractors	its					EIAO-TM	N/A

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	Environmental Brotestian		_	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
-	<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

		Location / Timing		Impl	ementa	ation Stages*	Relevant	and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures		Implementation Agent	Des	С	O Dec	Legislation and Guidelines	
S5b.8.1.1			Contractor				Guidelines EIAO-TM; ProPECC PN 1/94; WPCO	Deficiency of Mitigation Measures but rectified by the Contractor

				Imple	ement	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	
	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>								

				Impl	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	
	• Earthwork final surfaces should be well compacted and subsequent permanent work or surface protection should be immediately performed.								
	Open stockpiles of construction 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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				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	
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					EIAO-TM; ProPECC PN 1/94; WPCO	Deficiency of Mitigation Measures but rectified by the Contractor 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		<b>~</b>			EIAO-TM; ProPECC PN 1/94; WPCO; WDO	Implemented

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EIA Ref	Environmental Protection Measures / Mitigation Measures			Impl	ementa	ation St	tages*	Relevant	Implementation Status and Remarks
		Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	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.		Contractor		~				Deficiency of Mitigation Measures but rectified by the Contractor
S5b.8.1.7	Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows:	construction	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>								

EIA Ref	Environmental Protection Measures / Mitigation Measures			Imple	ementation Stages*	tages*	Relevant		
		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		<ul> <li>Image: A start of the start of</li></ul>			EIAO-TM; ProPECC PN 1/94; WPCO	Implemented
S5b.8.1.9		period	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

EIA Ref	Environmental Protection Measures / Mitigation Measures			Imple	emen	tation S	tages*	Relevant	
		Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	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;								

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EIA Ref			Impl	ementa	ation S	tages*	Relevant Legislation and Guidelines	Implementation Status and Remarks
	Environmental Protection Measures / Mitigation Measures	Implementation Agent	Des	С	Ο	Dec		
	<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>							

EIA Ref	Environmental Protection Measures / Mitigation Measures			Imple	ementa	tion S	stages* Relevant		
		Location / Timing	Implementation Agent	Des C O D	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.								
	• 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.								
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	~		✓		WPCO; WDO	N/A

				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
	compliance with the Waste Disposal Ordinance.								
S5b.8.2.5	<u>Refuse Entrapment</u> 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

						ation S		Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
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	tages*	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.         Recommendations to achieve waste reduction include:         • Design foundation works that could minimize the amount of excavated material to be generated.         • Provide training to workers on the importance of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling;	Work Site/ During Design & Construction Period	Contractor		<b>v</b>			Guideines	Implemented. N/A for demolition items
	<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>								

	Environmental Protection				lement	ation Sta	iges*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Indenientation		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 1	×			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	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	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 & Construction	Contractor	×	×			ETWB TCW No. 19/2005	Implemented

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				Imple	ementa	ation S	stages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	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		<b>*</b>			Waste Disposal (Chemical Waste) (General) Regulation	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
	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	<u>General Refuse</u> General refuse should be stored in enclosed bins or compaction units separate from C&D materials. A licensed waste collector should be employed by the Contractor to remove general refuse from the site, separately from C&D materials. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.	Work Site/ During Construction Period	Contractor		•				Deficiency of Mitigation Measures but rectified by the Contractor
6b.5.1.1 6 – 6b.5.1.33	<ul> <li><u>Biogas Generation</u></li> <li>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: <ul> <li>gas monitoring after reclamation;</li> <li>passive ventilation;</li> <li>gas impermeable membrane;</li> <li>ventilation with "at risk" rooms;</li> <li>protection of utilities or below ground services;</li> </ul></li></ul>	Reclamation site (if dredging at the reclamation site is not required) / Design & Construction Period	Designer and/or contractor	✓	✓			EPD/TR8/97	N/A

	Environmental Protection			Implemer	tation §	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	<ul> <li>precautions during construction works;</li> <li>precautions prior to entry of belowground services</li> <li><u>Good Site Practices</u></li> </ul>	IWMF Site/During	IWMF Operator		✓		Waste Disposal N/A Ordinance
	<ul> <li>It is recommended that the following good operational practices should be adopted to minimise waste management impacts:</li> <li>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;</li> <li>Nomination of an approved person to be responsible for good site practice, 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>	Operation Period					(Cap.354); Waste Disposal (Chemical Waste) (General) Regulation; ETWB TCW No. 1/2004

				Impler	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 disposed of (including recycled the 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 S	stages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
6b.5.2.3	<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> <li>Storage, Handling, Treatment, Collection</li> </ul>	IWMF Site/	IWMF Operator					Incineration	N/A
60.5.2.3	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:	During Operation Period	IWMF Operator			v		Residue Pollution Control Limits	
	<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	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>The ash should be transported in covered trucks or containers to the designated landfill site.</li> <li>The Contractor should provide EPD with chemical analysis results of the</li> </ul>								
	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> </ul>	Fuel Oil Storage Tank/ During Design, Construction and Operation Periods	IWMF Contractor	✓	✓	✓			N/A
	<ul> <li>Any potential problems identified in the test should be rectified as soon as possible.</li> </ul>								

	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	
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> </ul>	Fuel Oil Pipelines/ During Design, Construction and Operation Periods	IWMF Contractor	~	~	~			N/A
	<ul> <li>Distance between the fuel oil refuelling points and the fuel oil storage tank shall be minimized.</li> </ul>								
	<ul> <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>								
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

				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	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	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>&gt;Identify and isolate the source of spillage as soon as possible.</li> <li>&gt;Contain the oil spillage and avoid infiltration into soil/ groundwater and discharge to storm water channels.</li> <li>&gt;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 and the associated material to remove the spilled oil should be considered as chemical waste.</li> </ul>								

	Environmental Dratestics			Impl	ementa	ation S	Stages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	Ο	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 should be inspected 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

	Environmental Protection			Implei	menta	ation S <sup>.</sup>	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 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.								
	Chemical handling shall be conducted by trained workers under supervision.								
6b.6.3.2	<u>Chemicals and Chemical Wastes Spillage</u> <u>Response</u> A 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>								

				Imple	ementa	ation St	ages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	Tools & resources to handle spillage, e.g. locations of spill handling equipment;								
	General methods to deal with spillage; and								
	<ul> <li>Procedures for emergency drills in the event of spills.</li> </ul>								
	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	ementa	ation St	ages*	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;								
	Clean up the contaminated area (in case the spillage occurs at locations out of the designated storage areas); and								
	The waste arising from the cleanup operation should be considered as chemical wastes.								
6b.6.3.3	Preventive Measures for Incineration By- products Handling         The recommended measures listed below can minimize the potential contamination to the surrounding environment due to the incineration by-products:         • Ash should be stored in storage silos;         • Ash should be handled and conveyed in closed systems fully segregated	Storage, Handling & Collection of Incineration Ash at IWMF/ During Operation Period	IWMF Operator			×			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	0	Dec	Legislation and Guidelines	
	<ul> <li>from the ambient environment;</li> <li>Ash should be wetted with water to control fugitive dust, where necessary;</li> <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> <li>The ash should be transported in covered trucks or containers to the</li> </ul>		Agent						
6b.6.3.4 -6b.6.3.6	designated landfill site.Incident RecordAfter 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			<b>v</b>		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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	Environmental Protection			Impl	ement	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 Risk-based Remediation Goals for Contaminated Land Management and the <i>Guidance Note for Contaminated Land and</i> Remediation.								

\* 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

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	Environmental Protection				Impl	ementa	ation S <sup>e</sup>	tages*	Relevant	
EIA Ref	Measures / Mitigation Measures	Location / Timing	-	Implementation Des Agent		С	0	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 landing 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	✓	~	✓	•	EIAO-TM, Supporting Document for Application for Variation of the Environmental	Implemented for avoidance o construction works that may produce underwater acoustic disturbance, Vessel Travel Route implementation, training of staff; N/A for others

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	Environmental Protection			Imple	ement	ation S	stages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	
	<ul> <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 (December to May), including:         <ul> <li>sheet piling works for construction of cofferdam surrounding the reclamation area</li> </ul> </li> </ul>		Agent						
	<ul> <li>(Phase 1);</li> <li>sheet piling works for construction of the shorter section of breakwater (Phase 1);</li> </ul>								

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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	
	<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	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>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;</li> <li>Non-percussive bore piling method would be adopted for the installation of tubular piles for the berth construction</li> </ul>								
	during Phase 3. <i>Monitored exclusion zones</i> • 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								

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	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	
	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								
	<ul> <li>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</li> </ul>								

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	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	
	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								
	<ul> <li>During construction and operation, captains of all vessels should adopt regular travel route, in order to minimize the chance of vessel collision with</li> </ul>								

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	Environmental Protection		Implementation Agent	Imple	ement	tation S	stages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing		Des	С	ο	Dec	Legislation and Guidelines	
	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								
	• 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.								
	<ul> <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								

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	Environmental Protection				Impl	plementation Stages*			Relevant	
EIA Ref	Measures / Mitigation Measures	Location / Timing	Impleme Age		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	~	~	✓	~	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         <ul> <li>a coral</li> <li>mapping survey, is</li> <li>recommended to further confirm the</li> </ul> </li> </ul>									

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	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								
	• 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.								
	Phasing of Works								
	<ul> <li>To minimize environmental impacts, the proposed phasing of construction works has been carefully designed to</li> </ul>								

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	Environmental Protection	1		Impl	ementa	ation S	tages*	Relevant	
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	O 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

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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	
	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>								

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	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>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>								
	<ul> <li>Education of staff</li> <li>Staff, including captains of all vessels during construction and operation</li> </ul>								
	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								

Integrated Waste Management Facilities, Phase 1

	Environmental Protection	Looption (		Im	plement	ation S	stages*	Relevant	
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	) De	s C	Ο	Dec	Legislation and Guidelines	Implementation Status and Remarks
	<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, IWN 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, IWN operator		V	~	V	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 tean contractor, IWN operator		V	•		EIAO-TM	Implemented

Integrated Waste Management Facilities, Phase 1

	Environmental Protection			Impl	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.8.3.4 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		Work site	Contractor		~		~	EIAO-TM	N/A

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	
	Potential ecological impacts resulted								
	from potential degradation of water								
	quality due to unmitigated surface								
	runoff could be minimised via the								
	detailed mitigation measures in <b>Section</b>								
	<b>5b.8</b> of the EIA Report. The following								
	presents some of the mitigation								
	measures:								
	<ul> <li>On-site drainage system with implemented</li> </ul>								
	sedimentation control facilities.								
	- Channels, earth bunds or sand bag								
	barriers should be provided on site								
	to direct storm water to silt removal								
	facilities.								
	- Provision of embankment at								
	boundaries of								
	earthworks for flood protection.								
	<ul> <li>Water pumped out from</li> </ul>								
	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.								
	- Exposed soil surface should be								
	minimized to reduce siltation and								
	runoff.								
	- Earthwork final surfaces should be								
	well compacted. Subsequent								
	permanent surface protection								
	should be immediately performed.								

Integrated Waste Management Facilities, Phase 1

	Environmental Protection			Impl	ementa	tion S	tages*	Relevant	have been set of the Otestan
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	- 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 regular basis.</li> </ul>	Work site	Contractor		V			EIAO-TM	Implemented
7b.8.3.49	Pest Control         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 operator			V			N/A

Integrated Waste Management Facilities, Phase 1

	Environmental Protection	Location / Timing		Impl	ementa	ation Sta	ages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures		Implementation Agent	Des	С	ο	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	Control of Marine Habitat Quality during Operation Phase	IWMF site	IWMF operator			~		EIAO-TM; WPCO	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>								

Integrated Waste Management Facilities, Phase 1

	Environmental Protection	Leastion /	Implementation Agent	Imple	ementa	ation S	tages*	Relevant	
EIA Ref	Measures / Mitigation Measures	Location / Timing		Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
7b.8.4. 1 – 7b.8.4. 3	<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

Integrated Waste Management Facilities, Phase 1

	Environmental Protection			Impl	ementa	ation Stage	s* Relevant		
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	O De	c Legislation and Guidelines	Implementation Status and Remarks	
	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	Within the proposed marine park under this study		<b>√</b>		×	EIAO-TM	N/A	
	an enhancement measure for the								

Integrated Waste Management Facilities, Phase 1

Keppel Seghers – Zhen Hua Joint Venture

	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
	<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> <li>Release of fish fry at 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</li> </ul>							Guidelines	
	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.								

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

					Imple	ementa	ation S	Stages*	Relevant	Implementation	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent		Des	C O		Dec	Legislation and Guidelines	Status and Remarks	
8b.8.1.2	<ul> <li>Measure to minimize loss of and disturbance on fisheries resources</li> <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</li> </ul>	IWMF site	Design contractor	team,	V	V		×	EIAO-TM	N/A	
	construction method, SS elevation would be greatly reduced, minimizing adverse impact on the health of fisheries resources.										
8b.8.1.3	Measure to minimize impingement and entrainment	IWMF site	Design contractor, operator	team, IWMF	<b>√</b>	~	~		EIAO-TM	N/A	
	• 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.										

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

						Imple	ement	ation S	Stages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures		ation / ming	Implemer Age		Des	С	0	Dec	Legislation and Guidelines	
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> </ul>	Work site	site, IWMF	Design contractor, operator	team, IWMF	~	•	✓	V	EIAO-TM	Implemented
	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										
8b.8.1.7  8b.8.1.8	<ul> <li><u>Additional Enhancement / Precautionary</u> <u>Measures</u></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><i>Release of Fish Fry at Artificial Reefs</i></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 waters en Soko	Project Pro	ponent	<ul> <li></li> </ul>		•     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •     •		EIAO-TM	N/A

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

Table B.7	Implementation Schedule for Landscape and	d Visual Measur	es for the IWMF at th	e artific	cial isl	and ne	ear SKC		
				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
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</li> <li>1) 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> </ul>	phases	Contractor	✓	•				N/A
	2) Use of tree species of dense tree crown to serve as visual barrier.								
	<ol> <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> </ol>								
	4) Planting strip along the periphery of the project site.								
	5) Selected tree species suitable for the coastal condition.								

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

				Implemer	tation S	Stages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des C	0	Dec	Legislation and Guidelines	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	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
S10b.10 MVC-01	Visual Mitigation and Aesthetic Design	Structures in IWMF /	Contractor	~	✓				N/A
MVC-01	<ol> <li>Use of natural materials with recessive color to minimize the bulkiness of the building.</li> </ol>	During design & constructio							
	<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							
	<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.</li> <li>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

				Implem	nenta	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
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

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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

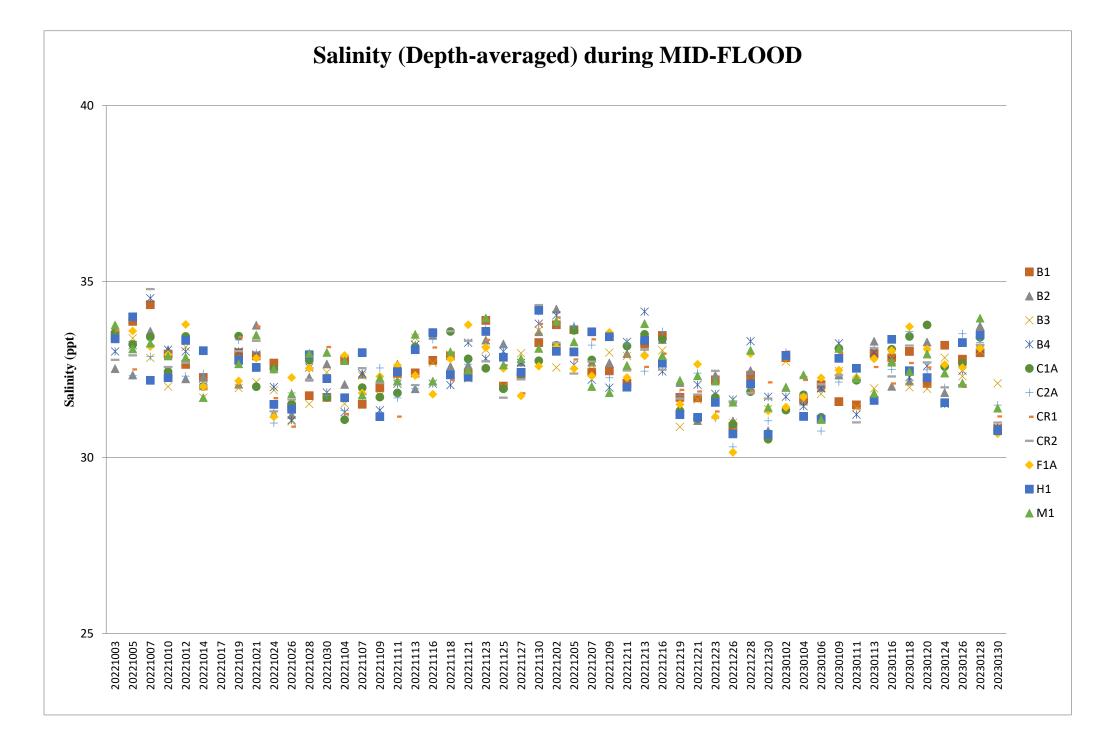
			Impact Monitoring Schedule for IWMF		
			Jan-23		
Sun	Mon	Tue	Wed	Thu	Fri
1	2 Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 06:44 - 11:08 Flood Tide: 11:08 - 18:45 Monitoring Time: *#\$Mid=ebb: 06:30 - 10:54 Mid-flood: 13:11 - 16:41	3	4 Impact 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 #\$&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 - 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			

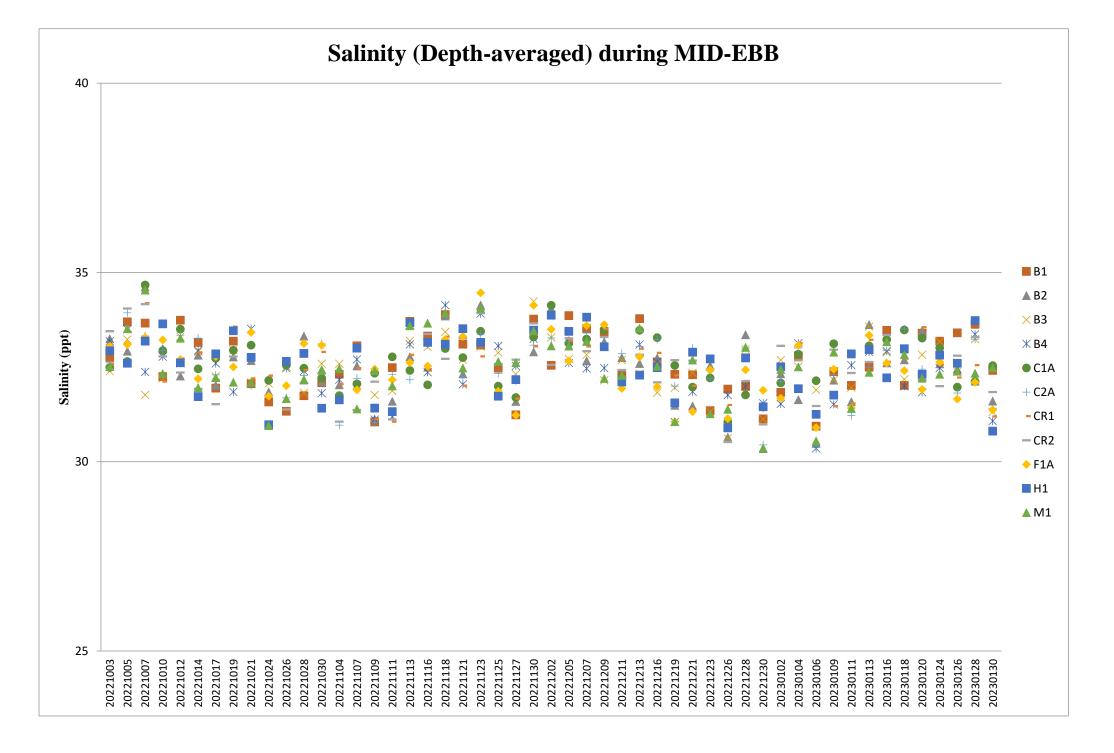
Remarks: 1. Daytime Noise Monitoring (07:00-1900), Evening Time Noise Monitoring (1900-2300), Night Time Noise Monitoring (2300-0700) 2. Water Quality Monitoring for \$1,\$2 and \$3 will only conduct during DCM works, refer to Detailed DCM Plan

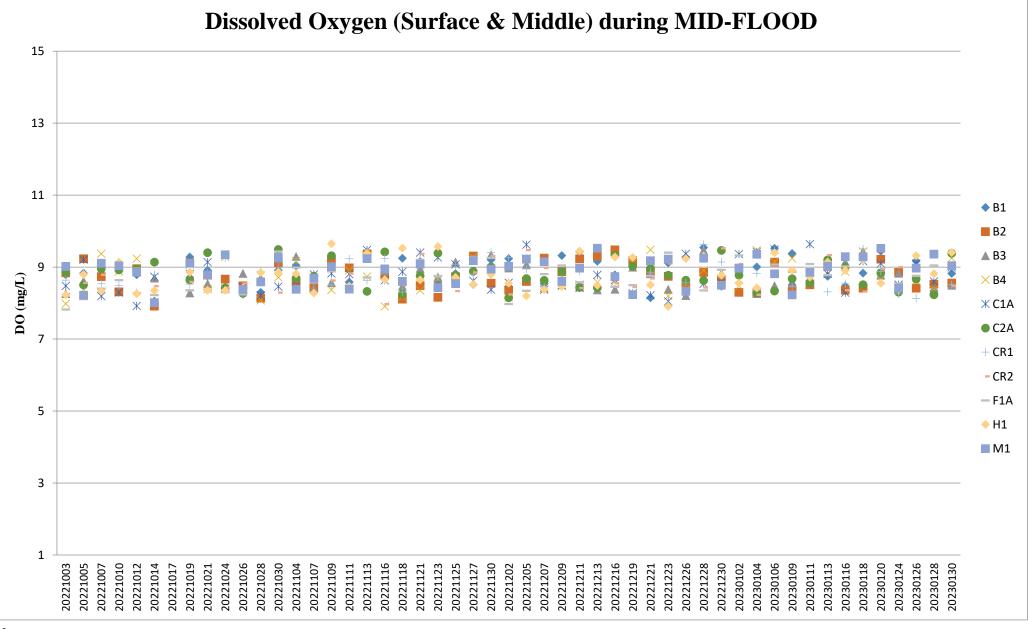
Note: - as per Marine Department Notice No 107 of 2018, all vessels employed for the works should stay in the works area outside the hours of works (0700 to 2300). Due to safty concern, Water Quality Monitoring would start at 0800. # - Prioritized routing: Mid-Ebb: C1 ->53 ->CR2 ->CR2 ->CR2 ->H1 ->Remaining 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.

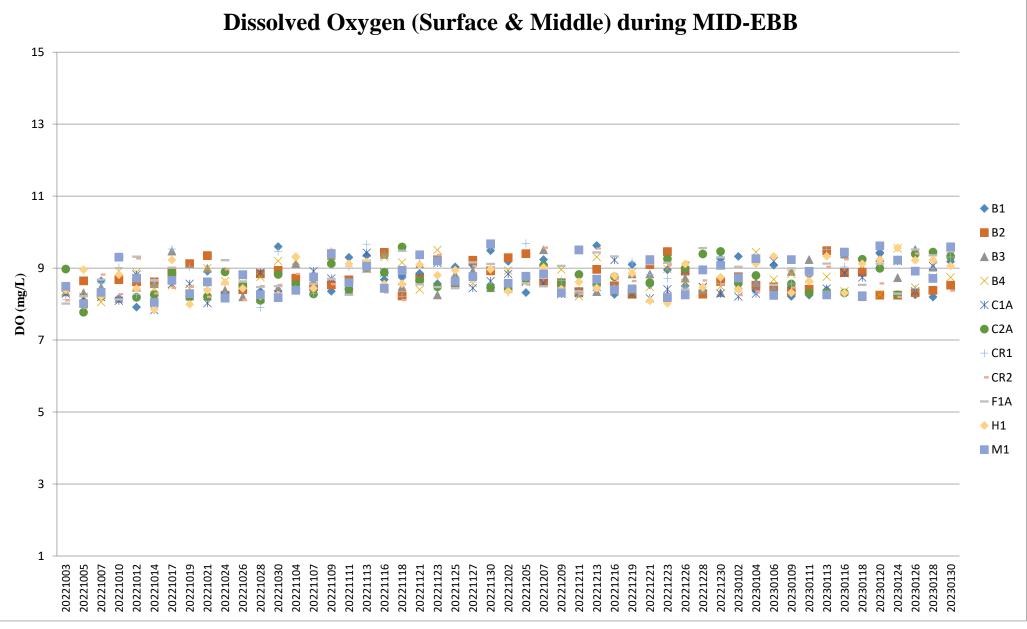
	Sat
	7
Impact	
or B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period:	
Ebb Tide: 10:54 - 12:54	
lood Tide: 12:54 - 20:37	
Monitoring Time:	
SMid-ebb: 11:00 - 12:48	
/id-flood: 15:00 - 18:30	
	14
Impact	
r B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period:	
Ebb Tide: 14:34 - 18:40	
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:
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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
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
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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 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 looise 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
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
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
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
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, 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 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

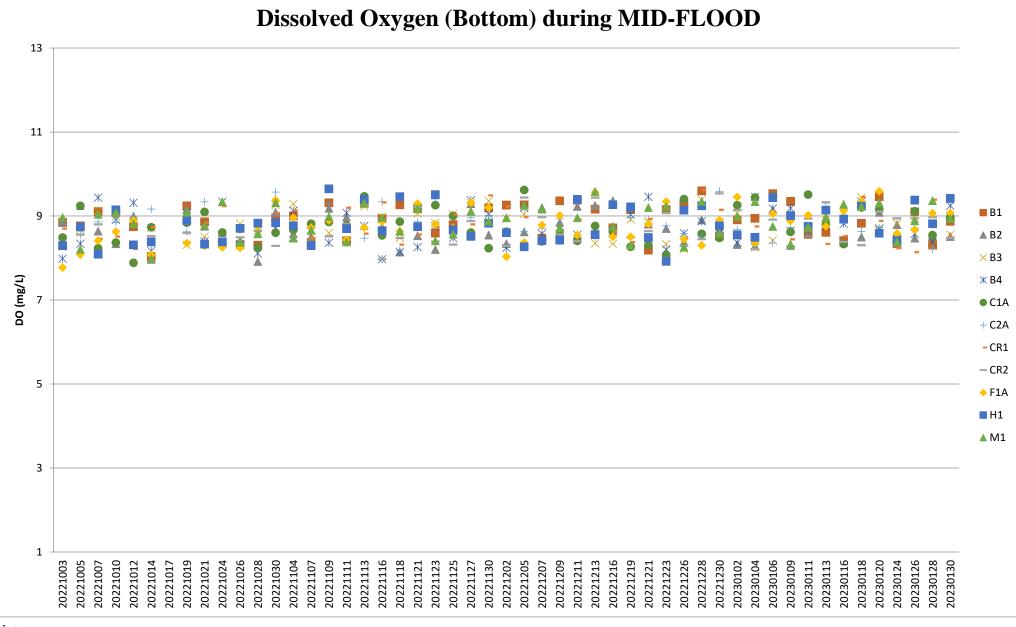
# Appendix D Water Quality Monitoring Data



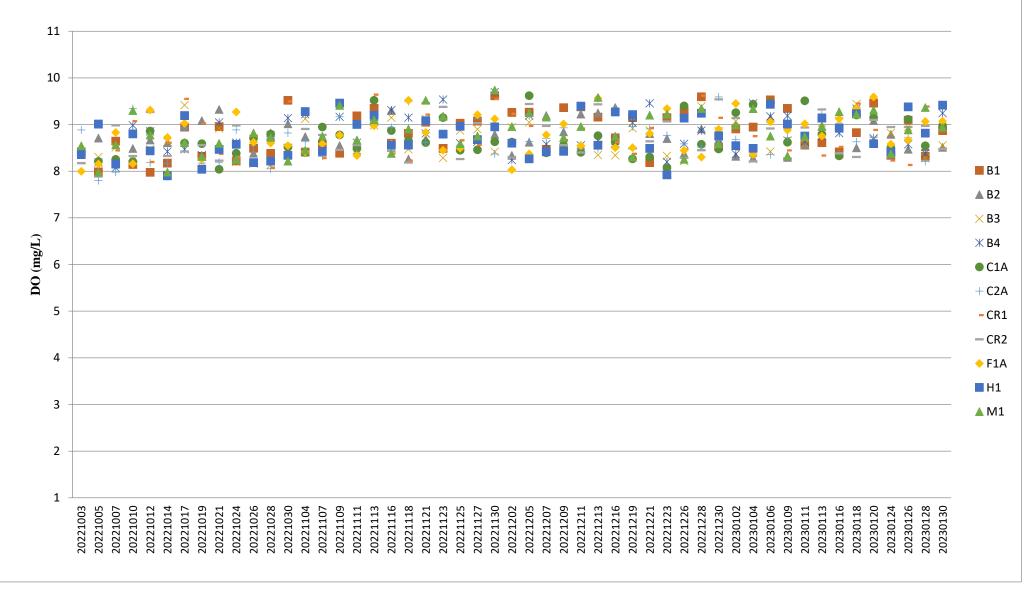




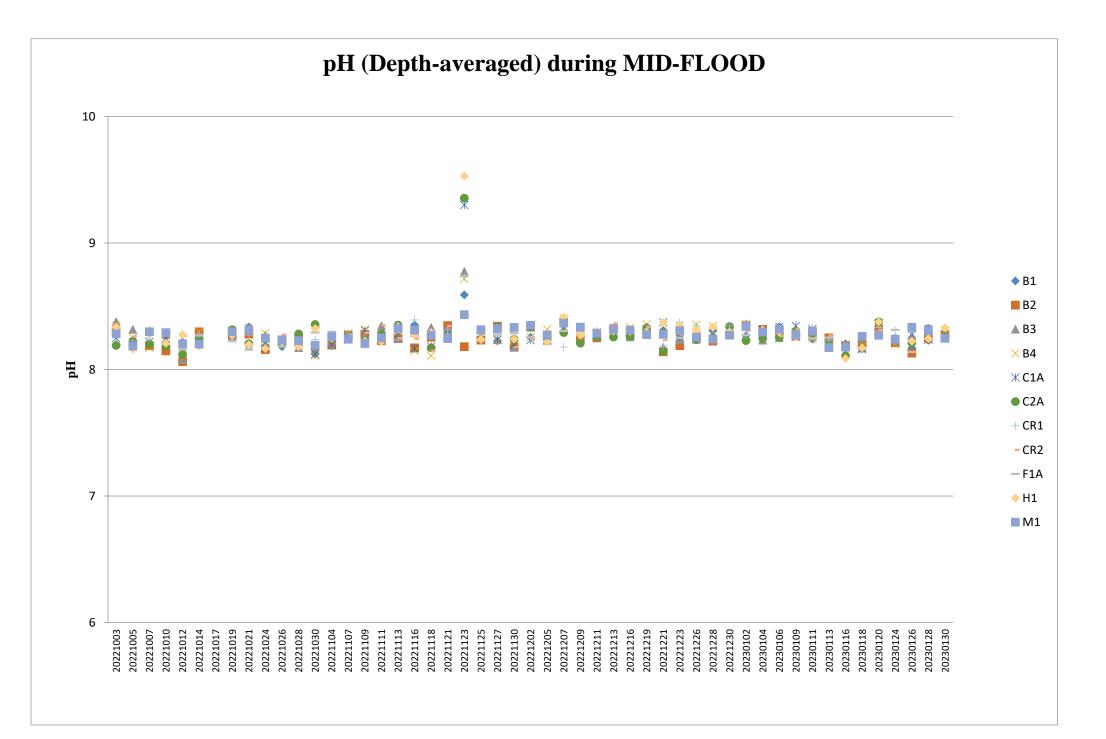


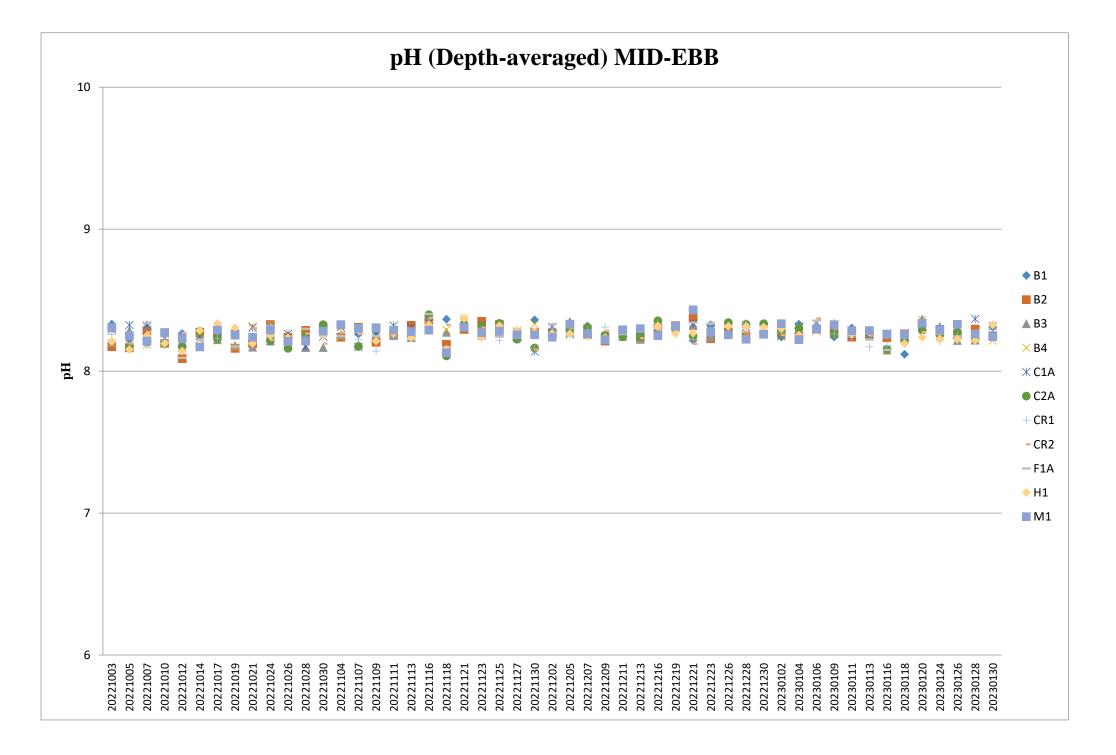


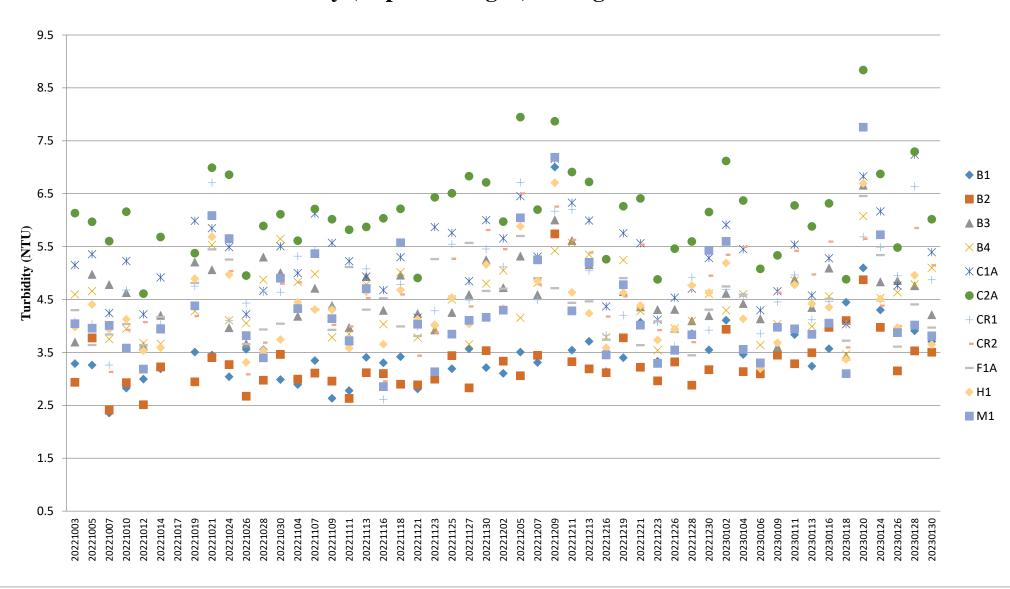
# **Dissolved Oxygen (Bottom) during MID-EBB**



Note:

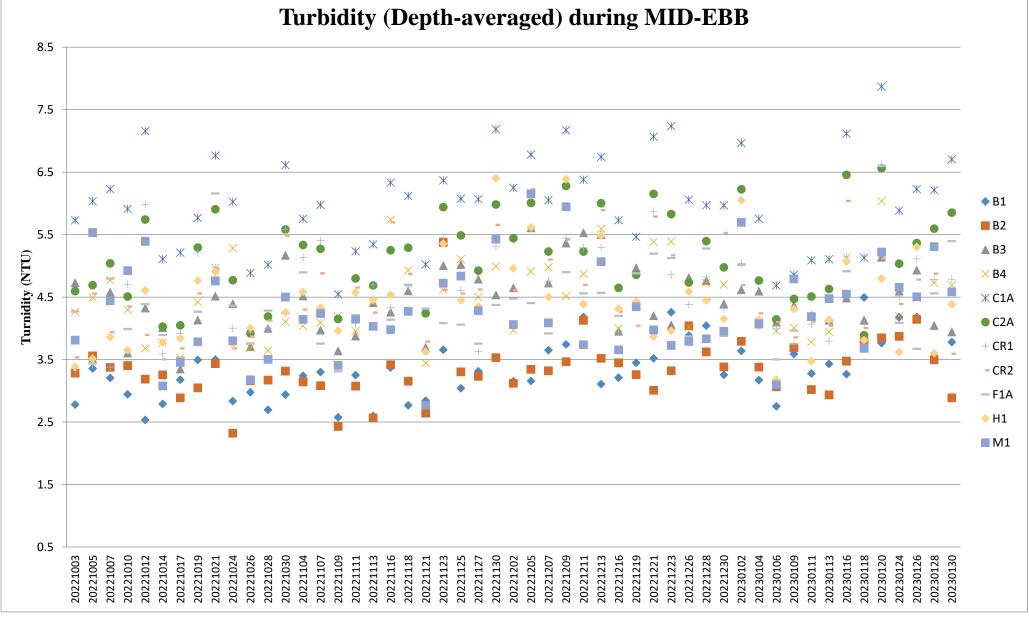


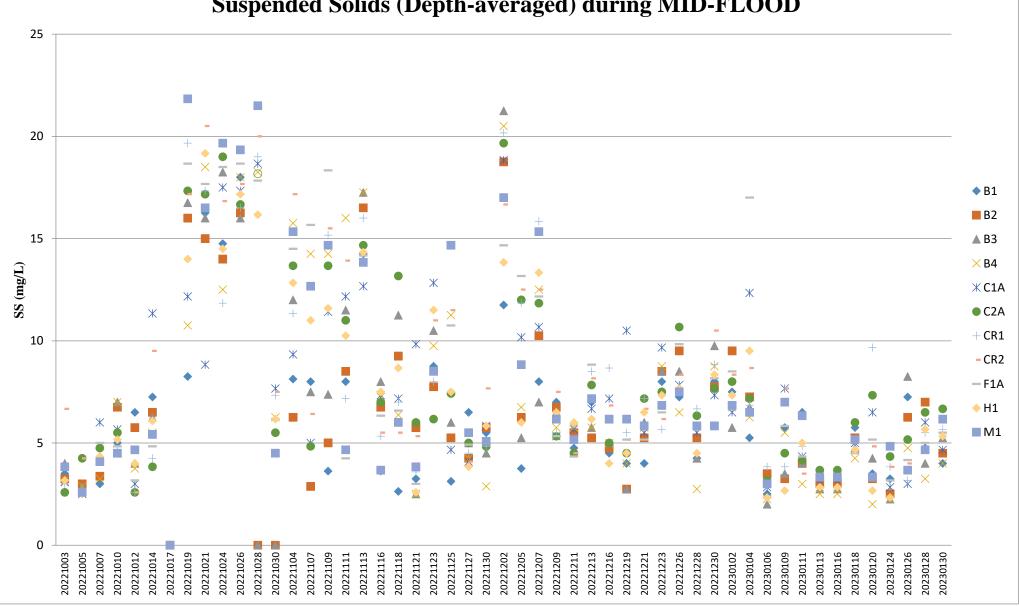




# **Turbidity (Depth-averaged) during MID-FLOOD**

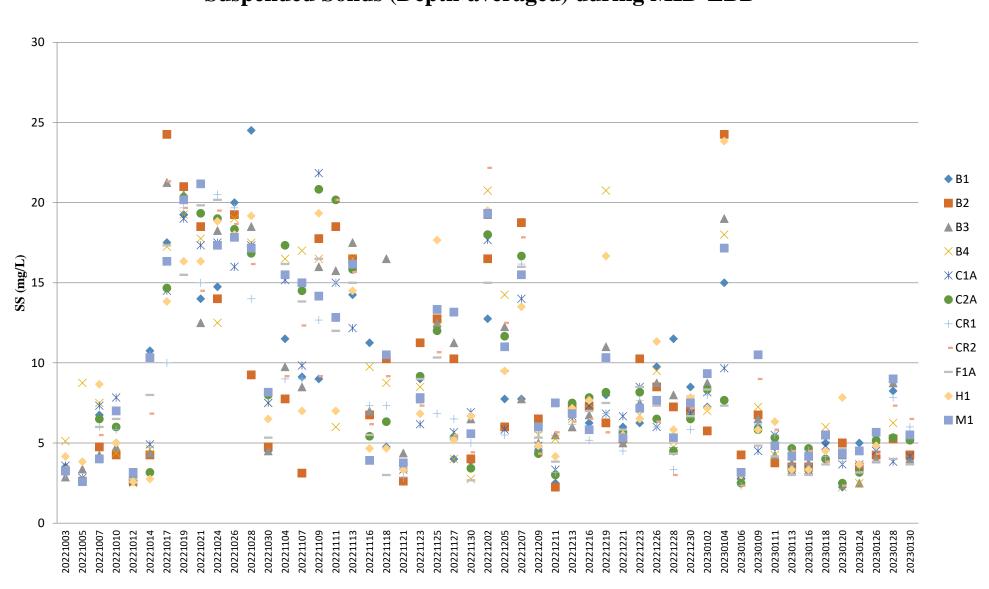
Note:





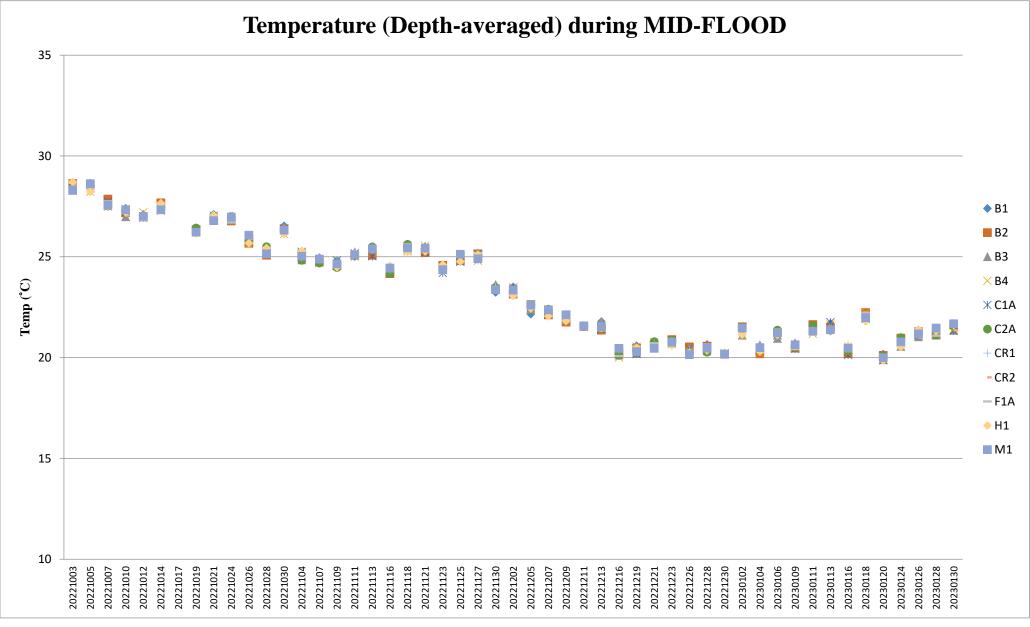
# Suspended Solids (Depth-averaged) during MID-FLOOD

Note:

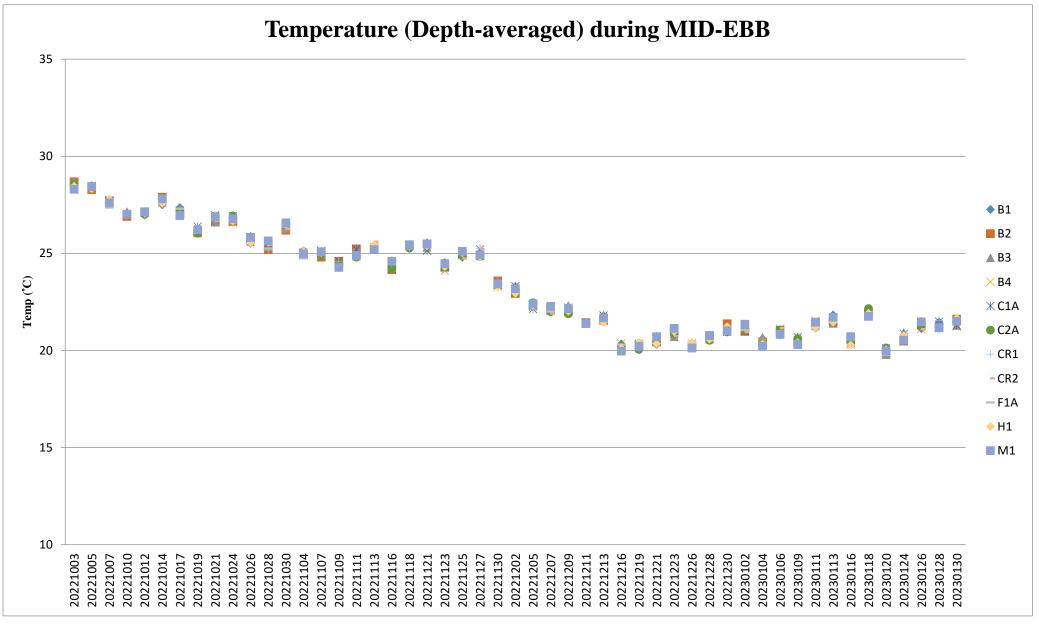


# Suspended Solids (Depth-averaged) during MID-EBB

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 Location Weather Sea Condition Tidal Water Level Depth (m) Time DO (mg/L) pН Sal (ppt) SS (mg/L) Temp (°C) (YYYYMMDD) Note 1 8.22 3.4 B1 20230102 Cloudy Moderate Mid-Ebb Surface 1 08:47 9.31 31.77 21.38 6 8 B1 20230102 Moderate Mid-Ebb Surface 08:47 9.34 8.23 31.83 21.31 3.9 Cloudy 1 20230102 3.6 7 B1 Cloudy Moderate Mid-Ebb Bottom 4.1 08:46 9.33 8.27 31.83 21.36 21.28 8 B1 20230102 Cloudy Moderate Mid-Ebb Bottom 4.1 08:46 9.25 8.24 31.89 3.7 B2 3.8 8 20230102 Moderate Mid-Ebb 8.79 8.26 21.03 Cloudy Surface 1 09:03 32.32 B2 20230102 8.29 20.96 4.0 Cloudy Moderate Mid-Ebb Surface 1 09:03 8.73 32.38 4 3.8 B2 20230102 Cloudy Moderate Mid-Ebb Bottom 4.8 09:02 8.75 8.27 32.26 20.98 4 B2 20.97 3.7 7 20230102 Moderate Mid-Ebb 4.8 09:02 8.79 8.27 32.32 Cloudy Bottom 9 B3 20230102 Cloudy Moderate Mid-Ebb Surface 1 10:29 8.81 8.3 32.64 21.21 5.0 20230102 21.23 4.7 B3 Cloudy Moderate Mid-Ebb Surface 1 10:29 8.72 8.3 32.65 10 4.4 7 B3 20230102 Moderate Mid-Ebb 3.9 10:28 8.91 8.24 32.73 21.2 Cloudy Bottom B3 20230102 Moderate 21.22 4.4 9 Mid-Ebb 3.9 10:28 8.83 8.3 32.72 Cloudy Bottom 5.2 7 B4 20230102 Cloudy Moderate Mid-Ebb Surface 1 10:19 8.57 8.2 31.53 21.18 Β4 20230102 Mid-Ebb 1 8.49 8.2 21.09 5.3 5 Moderate Surface 10:19 31.49 Cloudy 6.1 7 Β4 20230102 Cloudy Moderate Mid-Ebb Bottom 3.7 10:18 8.61 8.27 31.6 21.15 6.2 9 B4 20230102 Cloudy Moderate Mid-Ebb Bottom 3.7 10:18 8.45 8.3 31.48 21.15 08:23 8 C1A 20230102 Cloudy Moderate Mid-Ebb Surface 1 8.22 8.25 32.19 21 6.5 20230102 Moderate 1 8.19 21.02 7.0 9 C1A Mid-Ebb Surface 08:23 8.23 32.01 Cloudy 6.8 8 C1A 20230102 Cloudy Moderate Mid-Ebb Middle 5.3 08:22 8.31 8.26 31.97 21.01 5.3 20.94 9 C1A 20230102 Moderate Mid-Ebb Middle 08:22 8.31 8.26 31.98 7.1 Cloudy 7.2 C1A 20230102 Moderate 9.6 8.21 32.2 20.99 8 Cloudy Mid-Ebb Bottom 08:21 8.27 8.23 7.3 7 C1A 20230102 Cloudy Moderate Mid-Ebb Bottom 9.6 08:21 8.23 32.12 20.95 C2A 20230102 Cloudy Moderate Mid-Ebb Surface 1 10:21 8.65 8.28 32.04 21.08 6.4 13 8.27 5.9 9 C2A 20230102 Moderate Mid-Ebb 1 10:21 8.5 32.21 21.06 Cloudy Surface 6.25 6.7 C2A 20230102 Cloudy Moderate Mid-Ebb Middle 10:20 8.53 8.3 32.16 21.09 6 6.2 C2A 20230102 Moderate Mid-Ebb Middle 6.25 10:20 8.68 8.29 32.03 21.04 6 Cloudy C2A 20230102 Moderate Mid-Ebb 11.5 10:19 8.57 8.26 32.04 21.05 6.1 10 Cloudy Bottom C2A 6 20230102 Cloudy Moderate Mid-Ebb Bottom 11.5 10:19 8.63 8.29 32.25 21.05 6.1 CR1 20230102 Moderate 21.22 5.0 7 Cloudy Mid-Ebb Surface 1 09:58 8.31 8.27 32.41 21.32 5.1 8 CR1 20230102 Moderate Mid-Ebb 8.3 32.59 Cloudy Surface 1 09:58 8.4 20230102 21.29 5.1 8 CR1 Cloudy Moderate Mid-Ebb Middle 6.5 09:57 8.3 8.25 32.5 5.1 9 CR1 20230102 Cloudy Moderate Mid-Ebb Middle 6.5 09:57 8.34 8.26 32.58 21.22 21.22 4.7 CR1 20230102 Moderate Mid-Ebb 12 09:56 8.24 8.26 32.53 10 Cloudy Bottom 12 21.24 5.2 6 CR1 20230102 Cloudy Moderate Mid-Ebb Bottom 09:56 8.31 8.3 32.57 CR2 20230102 20.89 4.7 9 Moderate Mid-Ebb Surface 1 09:43 8.27 8.24 33.06 Cloudy CR2 4.2 8 20230102 Mid-Ebb 1 8.22 8.25 20.96 Cloudy Moderate Surface 09:43 32.99 CR2 20230102 5.7 8.32 33.13 21 4.9 8 Cloudy Moderate Mid-Ebb Middle 09:42 8.26

Turbidty (NTU) Date Location Weather Sea Condition Tidal Water Level Depth (m) Time DO (mg/L) pН Sal (ppt) SS (mg/L) Temp (°C) (YYYYMMDD) Note 1 8.23 33.1 20.97 5.1 CR2 20230102 Cloudy Moderate Mid-Ebb Middle 5.7 09:42 8.36 10 CR2 20230102 Moderate Mid-Ebb 10.4 09:41 8.38 8.25 32.98 20.91 4.8 11 Cloudy Bottom 20230102 20.99 9 CR2 Cloudy Moderate Mid-Ebb Bottom 10.4 09:41 8.33 8.28 33.11 4.4 8.32 21.07 5.0 8 F1A 20230102 Cloudy Moderate Mid-Ebb Surface 1 09:41 9.07 31.71 9 5.1 7 F1A 20230102 Moderate Mid-Ebb 1 8.31 21.08 Cloudy Surface 09:41 31.58 20230102 Moderate 9.08 8.31 21.08 5.0 8 F1A Cloudy Mid-Ebb Middle 4.45 09:40 31.78 5.3 F1A 20230102 Cloudy Moderate Mid-Ebb Middle 4.45 09:40 9.13 8.33 31.72 21.02 11 4.6 8 F1A 20230102 Moderate Mid-Ebb 7.9 09:39 8.34 21.08 Cloudy Bottom 9.14 31.63 8 F1A 20230102 Cloudy Moderate Mid-Ebb Bottom 7.9 09:39 9.1 8.35 31.63 20.99 5.1 20230102 6.0 H1 Cloudy Moderate Mid-Ebb Surface 1 09:30 8.4 8.28 32.59 21.33 10 6.0 9 H1 20230102 Moderate Mid-Ebb Surface 1 09:30 8.41 8.33 32.59 21.39 Cloudy H1 20230102 Moderate 21.31 5.7 6 Mid-Ebb Middle 4.05 09:29 8.54 8.3 32.48 Cloudy H1 20230102 Cloudy Moderate Mid-Ebb Middle 4.05 09:29 8.52 8.28 32.54 21.36 6.0 4 H1 20230102 Mid-Ebb 8.42 8.28 21.33 6.1 7 Moderate 7.1 09:28 32.38 Cloudy Bottom 6.4 7 H1 20230102 Cloudy Moderate Mid-Ebb Bottom 7.1 09:28 8.52 8.32 32.45 21.37 21.32 5.3 M1 20230102 Cloudy Moderate Mid-Ebb Surface 1 09:13 8.77 8.36 32.48 11 5.4 9 M1 20230102 Cloudy Moderate Mid-Ebb Surface 1 09:13 8.68 8.32 32.38 21.35 20230102 Moderate 21.41 5.2 8 M1 Mid-Ebb Middle 4.95 09:12 8.79 8.36 Cloudy 32.45 6.2 8 M1 20230102 Cloudy Moderate Mid-Ebb Middle 4.95 09:12 8.66 8.31 32.54 21.37 20230102 8.9 21.34 5.8 9 M1 Moderate Mid-Ebb 09:11 8.7 8.32 32.35 Cloudy Bottom 6.3 20230102 Moderate 8.9 8.33 21.33 11 M1 Cloudy Mid-Ebb 09:11 8.82 32.41 Bottom 3.7 6 B1 20230102 Cloudy Moderate Mid-Flood Surface 1 13:35 8.93 8.28 32.8 21.4 B1 20230102 Cloudy Moderate Mid-Flood Surface 1 13:35 9.02 8.29 32.91 21.36 4.1 11 B1 8.22 20230102 Moderate Mid-Flood 4.1 13:34 8.84 32.79 21.38 4.7 6 Cloudy Bottom Moderate 4.0 7 B1 20230102 Cloudy Mid-Flood Bottom 4.1 13:34 8.97 8.28 32.83 21.37 B2 20230102 Moderate 21.54 3.8 9 Mid-Flood Surface 13:51 8.27 8.35 31.93 Cloudy 1 3.7 B2 20230102 Cloudy Moderate Mid-Flood 1 13:51 8.32 8.36 31.93 21.54 10 Surface B2 4.2 20230102 Cloudy Moderate Mid-Flood Bottom 4.2 13:50 8.34 8.32 32.02 21.52 10 B2 20230102 Moderate 8.3 8.36 21.54 4.1 9 Cloudy Mid-Flood Bottom 4.2 13:50 32.07 6 B3 20230102 Moderate Mid-Flood 13:25 8.94 8.35 32.86 21.12 4.8 Cloudy Surface 1 20230102 13:25 21.08 4.3 B3 Cloudy Moderate Mid-Flood Surface 1 8.98 8.37 32.71 5 B3 21.12 5.0 6 20230102 Cloudy Moderate Mid-Flood Bottom 4.3 13:24 9.06 8.37 32.61 B3 20230102 Moderate Mid-Flood 4.3 13:24 9.08 8.35 32.71 21.13 4.4 6 Cloudy Bottom Β4 5 20230102 Cloudy Moderate Mid-Flood Surface 1 13:35 8.47 8.37 31.79 21.11 4.0 B4 20230102 1 21.1 3.6 5 Moderate Mid-Flood 13:35 8.47 8.35 31.75 Cloudy Surface B4 8 20230102 4.3 8.35 21.13 4.8 Cloudy Moderate Mid-Flood Bottom 13:34 8.37 31.66 9 B4 20230102 4.3 8.37 21.11 4.9 Cloudy Moderate Mid-Flood Bottom 13:34 8.36 31.69

Turbidty (NTU) Date Location Weather Sea Condition Tidal Water Level Depth (m) Time DO (mg/L) pН Sal (ppt) SS (mg/L) Temp (°C) (YYYYMMDD) Note 1 5.7 C1A 20230102 Cloudy Moderate Mid-Flood Surface 1 13:13 9.38 8.34 31.37 21.49 6 C1A 20230102 Moderate Mid-Flood Surface 13:13 9.34 8.35 31.31 21.48 5.4 4 Cloudy 1 20230102 6.0 5 8 C1A Cloudy Moderate Mid-Flood Middle 13:12 9.46 8.31 31.44 21.47 20230102 8.32 7 C1A Cloudy Moderate Mid-Flood Middle 5 13:12 9.43 31.33 21.46 5.9 9 6.5 7 20230102 Moderate Mid-Flood 8.33 21.53 C1A Cloudy Bottom 13:11 9.26 31.36 20230102 Moderate 9 8.35 21.51 6.0 7 C1A Cloudy Mid-Flood 13:11 9.25 31.26 Bottom C2A 20230102 Cloudy Moderate Mid-Flood Surface 1 13:13 8.76 8.21 32.87 21.51 7.0 11 C2A 1 7.0 8 20230102 Moderate Mid-Flood 8.78 8.24 33.03 21.5 Cloudy Surface 13:13 7 C2A 20230102 Cloudy Moderate Mid-Flood Middle 5.75 13:12 8.68 8.22 33.07 21.52 7.1 20230102 9 C2A Cloudy Moderate Mid-Flood Middle 5.75 13:12 8.58 8.27 33.01 21.51 6.9 Moderate 10.5 7.7 5 C2A 20230102 Mid-Flood 13:11 8.72 8.21 32.99 21.49 Cloudy Bottom 7.1 C2A 20230102 Moderate 21.52 8 Mid-Flood 10.5 13:11 8.63 8.22 32.93 Cloudy Bottom 4.2 9 CR1 20230102 Cloudy Moderate Mid-Flood Surface 1 14:44 8.57 8.24 33.13 21.19 CR1 20230102 8.58 8.28 21.2 4.4 6 Moderate Mid-Flood 1 14:44 32.98 Cloudy Surface 5.0 5 CR1 20230102 Cloudy Moderate Mid-Flood Middle 6.5 14:43 8.49 8.26 32.95 21.15 8 CR1 20230102 Cloudy Moderate Mid-Flood Middle 6.5 14:43 8.38 8.28 32.93 21.14 4.6 8 CR1 20230102 Cloudy Moderate Mid-Flood 12 14:42 8.57 8.27 33.09 21.13 5.0 Bottom CR1 20230102 12 21.17 4.9 8 Moderate Mid-Flood 14:42 8.37 8.29 32.95 Cloudy Bottom 4.5 8 CR2 20230102 Cloudy Moderate Mid-Flood Surface 1 14:31 9.02 8.29 32.73 21.44 CR2 20230102 8.33 21.44 5.2 8 Moderate Mid-Flood 1 14:31 9.15 32.94 Cloudy Surface 5.1 CR2 20230102 Moderate 5.35 9 8.29 21.4 10 Cloudy Mid-Flood Middle 14:30 32.73 CR2 4.7 9 20230102 Cloudy Moderate Mid-Flood Middle 5.35 14:30 9.17 8.32 32.84 21.41 9 CR2 20230102 Cloudy Moderate Mid-Flood Bottom 9.7 14:29 9.15 8.29 32.97 21.39 6.6 CR2 8.32 20230102 Moderate Mid-Flood 9.7 14:29 9.13 32.78 21.45 6.0 6 Cloudy Bottom 4.2 9 F1A 20230102 Cloudy Moderate Mid-Flood Surface 1 14:01 9.31 8.26 31.38 21.33 4.4 10 F1A 20230102 Moderate Mid-Flood 1 14:01 9.34 8.29 31.35 21.33 Cloudy Surface 4.3 4.9 F1A 20230102 Moderate Mid-Flood Middle 14:00 9.22 8.28 31.47 21.35 8 Cloudy 4.3 9 F1A 20230102 Cloudy Moderate Mid-Flood Middle 4.3 14:00 9.26 8.31 31.45 21.3 20230102 Moderate 7.6 21.3 5.4 7 F1A Cloudy Mid-Flood Bottom 13:59 9.45 8.24 31.58 5.2 8 F1A 20230102 Moderate Mid-Flood 7.6 9.45 8.25 31.33 21.29 Cloudy Bottom 13:59 20230102 21.17 5.5 8 H1 Cloudy Moderate Mid-Flood Surface 1 14:19 8.53 8.35 32.94 1 21.15 4.9 6 H1 20230102 Cloudy Moderate Mid-Flood Surface 14:19 8.58 8.35 32.83 4.7 9 H1 20230102 Moderate Mid-Flood Middle 3.9 14:18 8.63 8.34 32.94 21.17 Cloudy 21.12 8 H1 4.8 20230102 Cloudy Moderate Mid-Flood Middle 3.9 14:18 8.39 8.35 32.91 H1 20230102 6.8 5.6 7 Moderate Mid-Flood 14:17 8.63 8.31 32.86 21.11 Cloudy Bottom 6 H1 20230102 8.36 21.16 5.6 Cloudy Moderate Mid-Flood Bottom 6.8 14:17 8.47 32.9 20230102 21.48 5.9 6 M1 Cloudy Moderate Mid-Flood Surface 1 13:26 9.01 8.31 31.96

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рH	Sal (ppt)	Temp (°C)	Turbidty (NTU) Note 1	SS (mg/L)
M1	20230102	Cloudy	Moderate	Mid-Flood	Surface	1	13:26	8.93	8.37	32.04	21.45	5.2	5
M1	20230102	Cloudy	Moderate	Mid-Flood	Middle	4.35	13:25	9.02	8.32	32.06	21.45	5.8	9
M1	20230102	Cloudy	Moderate	Mid-Flood	Middle	4.35	13:25	8.94	8.37	32.01	21.48	5.2	8
M1	20230102	Cloudy	Moderate	Mid-Flood	Bottom	7.7	13:24	8.98	8.32	31.9	21.45	5.9	6
M1	20230102	Cloudy	Moderate	Mid-Flood	Bottom	7.7	13:24	9	8.36	32.02	21.5	5.6	7
B1	20230104	Cloudy	Moderate	Mid-Ebb	Surface	1	10:28	8.35	8.3	32.83	20.72	3.3	4
B1	20230104	Cloudy	Moderate	Mid-Ebb	Surface	1	10:28	8.38	8.34	32.83	20.55	2.8	5
B1	20230104	Cloudy	Moderate	Mid-Ebb	Bottom	3.8	10:27	8.33	8.33	32.78	20.5	3.4	24
B1	20230104	Cloudy	Moderate	Mid-Ebb	Bottom	3.8	10:27	8.37	8.35	32.73	20.66	3.2	27
B2	20230104	Cloudy	Moderate	Mid-Ebb	Surface	1	10:42	8.54	8.24	31.66	20.41	3.6	26
B2	20230104	Cloudy	Moderate	Mid-Ebb	Surface	1	10:42	8.51	8.28	31.62	20.43	3.2	23
B2	20230104	Cloudy	Moderate	Mid-Ebb	Bottom	4.2	10:41	8.46	8.23	31.69	20.57	3.1	28
B2	20230104	Cloudy	Moderate	Mid-Ebb	Bottom	4.2	10:41	8.54	8.23	31.58	20.39	3.6	20
B3	20230104	Cloudy	Moderate	Mid-Ebb	Surface	1	11:59	8.58	8.29	32.45	20.68	4.9	27
B3	20230104	Cloudy	Moderate	Mid-Ebb	Surface	1	11:59	8.62	8.29	32.48	20.62	4.6	27
B3	20230104	Cloudy	Moderate	Mid-Ebb	Bottom	3.5	11:58	8.54	8.26	32.46	20.72	4.6	8
B3	20230104	Cloudy	Moderate	Mid-Ebb	Bottom	3.5	11:58	8.59	8.26	32.65	20.7	4.3	14
B4	20230104	Cloudy	Moderate	Mid-Ebb	Surface	1	11:49	9.44	8.35	33.08	20.52	3.8	12
B4	20230104	Cloudy	Moderate	Mid-Ebb	Surface	1	11:49	9.45	8.29	33.11	20.42	3.7	13
B4	20230104	Cloudy	Moderate	Mid-Ebb	Bottom	3.6	11:48	9.43	8.33	33.17	20.47	4.9	25
B4	20230104	Cloudy	Moderate	Mid-Ebb	Bottom	3.6	11:48	9.46	8.3	33.16	20.42	4.2	22
C1A	20230104	Cloudy	Moderate	Mid-Ebb	Surface	1	09:58	8.24	8.32	32.8	20.29	5.4	8
C1A	20230104	Cloudy	Moderate	Mid-Ebb	Surface	1	09:58	8.33	8.32	32.91	20.28	5.3	9
C1A	20230104	Cloudy	Moderate	Mid-Ebb	Middle	4.75	09:57	8.24	8.3	32.94	20.12	5.9	11
C1A	20230104	Cloudy	Moderate	Mid-Ebb	Middle	4.75	09:57	8.22	8.32	32.88	20.29	5.4	7
C1A	20230104	Cloudy	Moderate	Mid-Ebb	Bottom	8.5	09:56	8.32	8.28	32.8	20.12	6.2	11
C1A	20230104	Cloudy	Moderate	Mid-Ebb	Bottom	8.5	09:56	8.33	8.32	32.71	20.23	6.4	12
C2A	20230104	Cloudy	Moderate	Mid-Ebb	Surface	1	11:55	8.86	8.28	33.06	20.24	4.2	7
C2A	20230104	Cloudy	Moderate	Mid-Ebb	Surface	1	11:55	8.73	8.29	32.84	20.41	4.6	7
C2A	20230104	Cloudy	Moderate	Mid-Ebb	Middle	5.7	11:54	8.73	8.33	32.96	20.31	4.5	9
C2A	20230104	Cloudy	Moderate	Mid-Ebb	Middle	5.7	11:54	8.82	8.28	33	20.29	4.8	7
C2A	20230104	Cloudy	Moderate	Mid-Ebb	Bottom	10.4	11:53	8.87	8.33	33.1	20.42	5.3	8
C2A	20230104	Cloudy	Moderate	Mid-Ebb	Bottom	10.4	11:53	8.83	8.29	33.04	20.36	5.3	8
CR1	20230104	Cloudy	Moderate	Mid-Ebb	Surface	1	11:35	8.25	8.22	33.07	20.49	3.8	5
CR1	20230104	Cloudy	Moderate	Mid-Ebb	Surface	1	11:35	8.35	8.25	33.27	20.49	3.7	4
CR1	20230104	Cloudy	Moderate	Mid-Ebb	Middle	6.6	11:34	8.29	8.23	33.3	20.44	4.0	24
CR1	20230104	Cloudy	Moderate	Mid-Ebb	Middle	6.6	11:34	8.26	8.26	33.03	20.46	4.1	22

Turbidty (NTU) Date Location Weather Sea Condition Tidal Water Level Depth (m) Time DO (mg/L) pН SS (mg/L) Sal (ppt) Temp (°C) (YYYYMMDD) Note 1 12.2 11:33 4.4 CR1 20230104 Cloudy Moderate Mid-Ebb Bottom 8.26 8.26 33.02 20.39 23 4.2 CR1 20230104 Moderate Mid-Ebb 12.2 11:33 8.26 8.27 33.09 20.61 25 Cloudy Bottom 4.2 18 CR2 20230104 Cloudy Moderate Mid-Ebb Surface 1 11:20 8.35 8.24 32.76 20.44 CR2 8.27 4.0 20230104 Cloudy Moderate Mid-Ebb Surface 1 11:20 8.35 32.59 20.31 11 CR2 4.2 18 20230104 Moderate Mid-Ebb 5.4 8.23 20.48 Cloudy Middle 11:19 8.44 32.67 CR2 20230104 Moderate 5.4 20.34 4.3 12 Cloudy Mid-Ebb Middle 11:19 8.36 8.26 32.73 9.8 4.5 23 CR2 20230104 Cloudy Moderate Mid-Ebb Bottom 11:18 8.33 8.26 32.52 20.36 CR2 4.3 21 20230104 Moderate Mid-Ebb 9.8 8.4 8.26 32.79 20.38 Cloudy Bottom 11:18 9 F1A 20230104 Cloudy Moderate Mid-Ebb Surface 1 11:25 9.22 8.21 33.12 20.1 4.2 20.27 3.9 F1A 20230104 Cloudy Moderate Mid-Ebb Surface 1 11:25 9.2 8.24 33 6 4.25 4.1 8 F1A 20230104 Moderate Mid-Ebb Middle 11:24 9.26 8.23 33.19 20.12 Cloudy 7 20230104 Moderate 20.18 3.6 F1A Mid-Ebb Middle 4.25 11:24 9.28 8.24 32.97 Cloudy 4.0 5 F1A 20230104 Cloudy Moderate Mid-Ebb Bottom 7.5 11:23 9.27 8.2 33.09 20.16 20230104 Mid-Ebb 7.5 11:23 9.27 8.2 20.28 9 F1A Moderate 33.08 4.4 Cloudy Bottom 3.7 22 H1 20230104 Cloudy Moderate Mid-Ebb Surface 1 11:07 9.15 8.29 32.03 20.33 22 3.9 H1 20230104 Cloudy Moderate Mid-Ebb Surface 1 11:07 9.1 8.23 31.85 20.34 25 H1 20230104 Cloudy Moderate Mid-Ebb Middle 4.5 11:06 9.08 8.29 31.9 20.45 4.0 20230104 Moderate 4.5 20.26 4.2 23 H1 Mid-Ebb Middle 11:06 9.09 8.24 31.95 Cloudy 4.4 H1 20230104 Cloudy Moderate Mid-Ebb Bottom 8 11:05 9.16 8.23 31.91 20.39 27 H1 20230104 8 20.22 4.7 24 Moderate Mid-Ebb 11:05 9.07 8.24 31.92 Cloudy Bottom 3.8 M1 20230104 Moderate 9.19 8.23 20.32 6 Cloudy Mid-Ebb Surface 1 11:02 32.45 3.9 M1 20230104 Cloudy Moderate Mid-Ebb Surface 1 11:02 9.33 8.23 32.51 20.13 11 32 M1 20230104 Cloudy Moderate Mid-Ebb Middle 4.45 11:01 9.23 8.21 32.48 20.18 4.1 8.23 3.9 28 M1 20230104 Moderate Mid-Ebb Middle 4.45 11:01 9.19 32.67 20.21 Cloudy 7.9 4.3 M1 20230104 Cloudy Moderate Mid-Ebb Bottom 11:00 9.24 8.21 32.46 20.14 12 20.34 4.4 14 M1 20230104 Moderate Mid-Ebb 7.9 11:00 9.21 8.22 32.44 Cloudy Bottom 3.8 5 B1 20230104 Cloudy Moderate Mid-Flood Surface 1 14:29 9.02 8.27 31.71 20.42 3.7 7 B1 20230104 Cloudy Moderate Mid-Flood Surface 1 14:29 8.99 8.33 31.61 20.49 B1 20230104 Moderate 8.27 20.44 3.1 3 Cloudy Mid-Flood Bottom 4.1 14:28 8.94 31.64 3.3 6 B1 20230104 Moderate Mid-Flood 14:28 8.95 8.34 31.65 20.59 Cloudy Bottom 4.1 20230104 20.19 3.1 B2 Cloudy Moderate Mid-Flood Surface 1 14:43 8.32 8.32 31.58 6 B2 1 20.28 3.2 8 20230104 Cloudy Moderate Mid-Flood Surface 14:43 8.26 8.33 31.59 3.2 3.5 8 B2 20230104 Moderate Mid-Flood 14:42 8.22 8.3 31.57 20.11 Cloudy Bottom B2 20.19 3.2 7 20230104 Cloudy Moderate Mid-Flood Bottom 3.5 14:42 8.34 8.32 31.66 B3 20230104 20.62 4.3 7 Cloudy Moderate Mid-Flood 1 14:19 8.26 8.2 31.63 Surface B3 5 20230104 1 8.21 20.56 4.3 Cloudy Moderate Mid-Flood Surface 14:19 8.26 31.51 7 B3 20230104 3.5 8.25 20.74 4.9 Cloudy Moderate Mid-Flood Bottom 14:18 8.26 31.63

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)
B3	20230104	Cloudy	Moderate	Mid-Flood	Bottom	3.5	14:18	8.27	8.26	31.6	20.62	4.2	8
B4	20230104	Cloudy	Moderate	Mid-Flood	Surface	1	14:30	9.43	8.3	31.51	20.29	4.3	6
B4	20230104	Cloudy	Moderate	Mid-Flood	Surface	1	14:30	9.5	8.3	31.39	20.22	4.6	6
B4	20230104	Cloudy	Moderate	Mid-Flood	Bottom	4	14:29	9.4	8.32	31.52	20.3	4.7	6
B4	20230104	Cloudy	Moderate	Mid-Flood	Bottom	4	14:29	9.51	8.33	31.41	20.17	4.9	7
C1A	20230104	Cloudy	Moderate	Mid-Flood	Surface	1	14:09	9.42	8.31	31.75	20.34	4.8	16
C1A	20230104	Cloudy	Moderate	Mid-Flood	Surface	1	14:09	9.42	8.31	31.83	20.41	5.2	18
C1A	20230104	Cloudy	Moderate	Mid-Flood	Middle	5.95	14:08	9.47	8.35	31.75	20.47	5.7	15
C1A	20230104	Cloudy	Moderate	Mid-Flood	Middle	5.95	14:08	9.38	8.31	31.89	20.37	5.7	14
C1A	20230104	Cloudy	Moderate	Mid-Flood	Bottom	10.9	14:07	9.45	8.29	31.72	20.39	5.7	6
C1A	20230104	Cloudy	Moderate	Mid-Flood	Bottom	10.9	14:07	9.42	8.3	31.72	20.5	5.6	5
C2A	20230104	Cloudy	Moderate	Mid-Flood	Surface	1	14:09	8.25	8.21	32.28	20.32	6.1	14
C2A	20230104	Cloudy	Moderate	Mid-Flood	Surface	1	14:09	8.31	8.24	32.37	20.36	6.1	8
C2A	20230104	Cloudy	Moderate	Mid-Flood	Middle	5.75	14:08	8.27	8.26	32.3	20.38	6.3	5
C2A	20230104	Cloudy	Moderate	Mid-Flood	Middle	5.75	14:08	8.22	8.28	32.27	20.36	6.3	4
C2A	20230104	Cloudy	Moderate	Mid-Flood	Bottom	10.5	14:07	8.29	8.24	32.34	20.36	6.6	7
C2A	20230104	Cloudy	Moderate	Mid-Flood	Bottom	10.5	14:07	8.35	8.25	32.27	20.23	6.8	5
CR1	20230104	Cloudy	Moderate	Mid-Flood	Surface	1	15:39	8.83	8.29	32.21	20.66	4.5	7
CR1	20230104	Cloudy	Moderate	Mid-Flood	Surface	1	15:39	8.82	8.3	32.21	20.61	4.3	5
CR1	20230104	Cloudy	Moderate	Mid-Flood	Middle	6.1	15:38	8.74	8.27	32.18	20.62	4.9	7
CR1	20230104	Cloudy	Moderate	Mid-Flood	Middle	6.1	15:38	8.79	8.29	32.21	20.6	4.2	8
CR1	20230104	Cloudy	Moderate	Mid-Flood	Bottom	11.2	15:37	8.71	8.28	32.19	20.71	4.7	7
CR1	20230104	Cloudy	Moderate	Mid-Flood	Bottom	11.2	15:37	8.79	8.31	32.2	20.67	4.7	7
CR2	20230104	Cloudy	Moderate	Mid-Flood	Surface	1	15:22	8.21	8.29	31.73	20.34	5.6	5
CR2	20230104	Cloudy	Moderate	Mid-Flood	Surface	1	15:22	8.25	8.31	31.68	20.23	5.7	7
CR2	20230104	Cloudy	Moderate	Mid-Flood	Middle	5.35	15:21	8.29	8.27	31.83	20.32	5.0	9
CR2	20230104	Cloudy	Moderate	Mid-Flood	Middle	5.35	15:21	8.33	8.28	31.77	20.2	5.7	8
CR2	20230104	Cloudy	Moderate	Mid-Flood	Bottom	9.7	15:20	8.21	8.27	31.84	20.17	5.9	9
CR2	20230104	Cloudy	Moderate	Mid-Flood	Bottom	9.7	15:20	8.21	8.31	31.83	20.27	5.1	14
F1A	20230104	Cloudy	Moderate	Mid-Flood	Surface	1	14:56	8.4	8.29	31.71	20.62	4.5	29
F1A	20230104	Cloudy	Moderate	Mid-Flood	Surface	1	14:56	8.36	8.33	31.71	20.58	4.7	27
F1A	20230104	Cloudy	Moderate	Mid-Flood	Middle	4.05	14:55	8.33	8.29	31.65	20.62	4.2	10
F1A	20230104	Cloudy	Moderate	Mid-Flood	Middle	4.05	14:55	8.39	8.36	31.68	20.51	4.6	14
F1A	20230104	Cloudy	Moderate	Mid-Flood	Bottom	7.1	14:54	8.32	8.31	31.77	20.73	4.5	10
F1A	20230104	Cloudy	Moderate	Mid-Flood	Bottom	7.1	14:54	8.41	8.35	31.79	20.64	5.0	12
H1	20230104	Cloudy	Moderate	Mid-Flood	Surface	1	15:11	8.42	8.29	31.23	20.33	4.0	7
H1	20230104	Cloudy	Moderate	Mid-Flood	Surface	1	15:11	8.42	8.29	31.1	20.28	3.7	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)
H1	20230104	Cloudy	Moderate	Mid-Flood	Middle	3.75	15:10	8.4	8.31	31.16	20.33	4.0	6
H1	20230104	Cloudy	Moderate	Mid-Flood	Middle	3.75	15:10	8.42	8.35	31.14	20.33	4.1	9
H1	20230104	Cloudy	Moderate	Mid-Flood	Bottom	6.5	15:09	8.49	8.32	31.18	20.26	4.7	11
H1	20230104	Cloudy	Moderate	Mid-Flood	Bottom	6.5	15:09	8.49	8.33	31.17	20.28	4.4	18
M1	20230104	Cloudy	Moderate	Mid-Flood	Surface	1	15:21	9.32	8.32	32.39	20.51	3.5	9
M1	20230104	Cloudy	Moderate	Mid-Flood	Surface	1	15:21	9.39	8.32	32.31	20.41	3.3	6
M1	20230104	Cloudy	Moderate	Mid-Flood	Middle	4.2	15:20	9.37	8.32	32.37	20.55	3.3	7
M1	20230104	Cloudy	Moderate	Mid-Flood	Middle	4.2	15:20	9.38	8.26	32.3	20.54	3.4	5
M1	20230104	Cloudy	Moderate	Mid-Flood	Bottom	7.4	15:19	9.33	8.26	32.38	20.4	3.7	5
M1	20230104	Cloudy	Moderate	Mid-Flood	Bottom	7.4	15:19	9.35	8.3	32.33	20.57	4.1	7
B1	20230106	Sunny	Moderate	Mid-Ebb	Surface	1	11:30	9.04	8.31	30.96	20.85	2.8	2
B1	20230106	Sunny	Moderate	Mid-Ebb	Surface	1	11:30	9.12	8.26	30.9	20.8	2.5	3
B1	20230106	Sunny	Moderate	Mid-Ebb	Bottom	4.2	11:29	9.04	8.35	30.98	20.83	3.1	3
B1	20230106	Sunny	Moderate	Mid-Ebb	Bottom	4.2	11:29	9.15	8.3	30.92	20.82	2.6	3
B2	20230106	Sunny	Moderate	Mid-Ebb	Surface	1	11:46	8.45	8.31	30.54	21.04	3.0	5
B2	20230106	Sunny	Moderate	Mid-Ebb	Surface	1	11:46	8.51	8.35	30.48	21.07	2.7	4
B2	20230106	Sunny	Moderate	Mid-Ebb	Bottom	4.8	11:45	8.39	8.26	30.48	21.05	3.6	4
B2	20230106	Sunny	Moderate	Mid-Ebb	Bottom	4.8	11:45	8.45	8.26	30.43	21.04	3.1	4
B3	20230106	Sunny	Moderate	Mid-Ebb	Surface	1	12:26	8.41	8.36	31.93	20.89	4.4	4
B3	20230106	Sunny	Moderate	Mid-Ebb	Surface	1	12:26	8.45	8.36	31.86	20.9	3.9	3
B3	20230106	Sunny	Moderate	Mid-Ebb	Bottom	3.9	12:25	8.42	8.27	31.88	20.93	3.9	3
B3	20230106	Sunny	Moderate	Mid-Ebb	Bottom	3.9	12:25	8.39	8.33	31.9	20.89	4.2	2
B4	20230106	Sunny	Moderate	Mid-Ebb	Surface	1	12:13	8.68	8.28	30.37	21.1	3.9	2
B4	20230106	Sunny	Moderate	Mid-Ebb	Surface	1	12:13	8.69	8.26	30.43	21.09	3.9	3
B4	20230106	Sunny	Moderate	Mid-Ebb	Bottom	3.1	12:12	8.7	8.29	30.31	21.12	3.9	3
B4	20230106	Sunny	Moderate	Mid-Ebb	Bottom	3.1	12:12	8.75	8.29	30.3	21.17	4.2	3
C1A	20230106	Sunny	Moderate	Mid-Ebb	Surface	1	11:02	9.21	8.26	32.2	20.82	4.3	4
C1A	20230106	Sunny	Moderate	Mid-Ebb	Surface	1	11:02	9.17	8.27	32.1	20.85	4.8	4
C1A	20230106	Sunny	Moderate	Mid-Ebb	Middle	5.5	11:01	9.17	8.38	32.11	20.83	4.6	3
C1A	20230106	Sunny	Moderate	Mid-Ebb	Middle	5.5	11:01	9.12	8.32	32.11	20.84	4.4	3
C1A	20230106	Sunny	Moderate	Mid-Ebb	Bottom	10	11:00	9.23	8.25	32.1	20.81	5.2	2
C1A	20230106	Sunny	Moderate	Mid-Ebb	Bottom	10	11:00	9.15	8.3	32.21	20.82	4.9	2
C2A	20230106	Sunny	Moderate	Mid-Ebb	Surface	1	12:40	8.27	8.3	30.37	21.07	3.9	2
C2A	20230106	Sunny	Moderate	Mid-Ebb	Surface	1	12:40	8.25	8.26	30.38	21	3.8	3
C2A	20230106	Sunny	Moderate	Mid-Ebb	Middle	5.7	12:39	8.25	8.28	30.35	21.02	4.5	3
C2A	20230106	Sunny	Moderate	Mid-Ebb	Middle	5.7	12:39	8.25	8.31	30.48	21.08	4.1	2
C2A	20230106	Sunny	Moderate	Mid-Ebb	Bottom	10.4	12:38	8.24	8.29	30.47	21.09	4.6	3

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

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)
C2A	20230106	Sunny	Moderate	Mid-Ebb	Bottom	10.4	12:38	8.26	8.32	30.43	21.08	4.1	2
CR1	20230106	Sunny	Moderate	Mid-Ebb	Surface	1	12:39	8.25	8.36	31.22	20.82	3.6	2
CR1	20230106	Sunny	Moderate	Mid-Ebb	Surface	1	12:39	8.21	8.29	31.12	20.92	3.8	2
CR1	20230106	Sunny	Moderate	Mid-Ebb	Middle	6.35	12:38	8.31	8.29	31.22	20.84	3.9	3
CR1	20230106	Sunny	Moderate	Mid-Ebb	Middle	6.35	12:38	8.25	8.3	31.1	20.86	4.0	2
CR1	20230106	Sunny	Moderate	Mid-Ebb	Bottom	11.7	12:37	8.32	8.34	31.16	20.89	4.2	2
CR1	20230106	Sunny	Moderate	Mid-Ebb	Bottom	11.7	12:37	8.3	8.28	31.22	20.87	4.4	3
CR2	20230106	Sunny	Moderate	Mid-Ebb	Surface	1	12:25	8.31	8.4	31.49	21.19	4.1	2
CR2	20230106	Sunny	Moderate	Mid-Ebb	Surface	1	12:25	8.32	8.4	31.38	21.15	3.9	2
CR2	20230106	Sunny	Moderate	Mid-Ebb	Middle	5.85	12:24	8.24	8.33	31.54	21.2	3.9	2
CR2	20230106	Sunny	Moderate	Mid-Ebb	Middle	5.85	12:24	8.31	8.34	31.45	21.16	3.8	4
CR2	20230106	Sunny	Moderate	Mid-Ebb	Bottom	10.7	12:23	8.26	8.4	31.46	21.09	4.5	2
CR2	20230106	Sunny	Moderate	Mid-Ebb	Bottom	10.7	12:23	8.31	8.35	31.5	21.09	4.5	2
F1A	20230106	Sunny	Moderate	Mid-Ebb	Surface	1	11:49	8.53	8.31	30.99	20.84	3.3	3
F1A	20230106	Sunny	Moderate	Mid-Ebb	Surface	1	11:49	8.53	8.34	30.82	20.92	3.2	4
F1A	20230106	Sunny	Moderate	Mid-Ebb	Middle	3.95	11:48	8.5	8.35	30.83	20.92	3.2	3
F1A	20230106	Sunny	Moderate	Mid-Ebb	Middle	3.95	11:48	8.48	8.39	30.91	20.86	3.4	2
F1A	20230106	Sunny	Moderate	Mid-Ebb	Bottom	6.9	11:47	8.56	8.33	30.89	20.84	4.2	5
F1A	20230106	Sunny	Moderate	Mid-Ebb	Bottom	6.9	11:47	8.49	8.41	30.95	20.92	3.8	3
H1	20230106	Sunny	Moderate	Mid-Ebb	Surface	1	12:13	9.32	8.28	31.25	20.75	3.0	3
H1	20230106	Sunny	Moderate	Mid-Ebb	Surface	1	12:13	9.33	8.35	31.28	20.72	3.1	2
H1	20230106	Sunny	Moderate	Mid-Ebb	Middle	3.95	12:12	9.38	8.31	31.33	20.72	3.1	4
H1	20230106	Sunny	Moderate	Mid-Ebb	Middle	3.95	12:12	9.38	8.26	31.24	20.8	3.2	4
H1	20230106	Sunny	Moderate	Mid-Ebb	Bottom	6.9	12:11	9.31	8.28	31.21	20.78	3.5	2
H1	20230106	Sunny	Moderate	Mid-Ebb	Bottom	6.9	12:11	9.37	8.27	31.2	20.8	3.2	3
M1	20230106	Sunny	Moderate	Mid-Ebb	Surface	1	11:25	8.22	8.26	30.61	20.85	3.0	3
M1	20230106	Sunny	Moderate	Mid-Ebb	Surface	1	11:25	8.26	8.27	30.47	20.79	2.9	5
M1	20230106	Sunny	Moderate	Mid-Ebb	Middle	4.9	11:24	8.27	8.3	30.55	20.85	3.1	2
M1	20230106	Sunny	Moderate	Mid-Ebb	Middle	4.9	11:24	8.21	8.35	30.53	20.82	3.1	3
M1	20230106	Sunny	Moderate	Mid-Ebb	Bottom	8.8	11:23	8.22	8.26	30.5	20.83	3.4	3
M1	20230106	Sunny	Moderate	Mid-Ebb	Bottom	8.8	11:23	8.3	8.34	30.61	20.82	3.1	3
B1	20230106	Sunny	Moderate	Mid-Flood	Surface	1	15:25	9.54	8.33	31.98	21.18	3.0	3
B1	20230106	Sunny	Moderate	Mid-Flood	Surface	1	15:25	9.5	8.37	32.09	21.12	2.8	2
B1	20230106	Sunny	Moderate	Mid-Flood	Bottom	3.6	15:24	9.5	8.35	32.11	21.16	3.7	3
B1	20230106	Sunny	Moderate	Mid-Flood	Bottom	3.6	15:24	9.56	8.3	32.09	21.16	3.8	2
B2	20230106	Sunny	Moderate	Mid-Flood	Surface	1	15:39	9.14	8.26	32.02	21.23	3.0	6
B2	20230106	Sunny	Moderate	Mid-Flood	Surface	1	15:39	9.13	8.35	32.01	21.28	2.7	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	20230106	Sunny	Moderate	Mid-Flood	Bottom	3.5	15:38	9.14	8.28	31.92	21.23	3.5	2
B2	20230106	Sunny	Moderate	Mid-Flood	Bottom	3.5	15:38	9.13	8.34	32	21.3	3.2	2
B3	20230106	Sunny	Moderate	Mid-Flood	Surface	1	15:13	8.52	8.29	31.75	20.91	4.1	2
B3	20230106	Sunny	Moderate	Mid-Flood	Surface	1	15:13	8.44	8.28	31.77	20.99	3.7	2
B3	20230106	Sunny	Moderate	Mid-Flood	Bottom	3.4	15:12	8.42	8.21	31.84	20.97	4.6	2
B3	20230106	Sunny	Moderate	Mid-Flood	Bottom	3.4	15:12	8.42	8.23	31.86	20.95	4.1	2
B4	20230106	Sunny	Moderate	Mid-Flood	Surface	1	15:23	9.14	8.3	31.97	21.1	3.6	2
B4	20230106	Sunny	Moderate	Mid-Flood	Surface	1	15:23	9.16	8.32	31.98	21.11	3.5	2
B4	20230106	Sunny	Moderate	Mid-Flood	Bottom	4.5	15:22	9.17	8.26	31.94	21.09	3.9	3
B4	20230106	Sunny	Moderate	Mid-Flood	Bottom	4.5	15:22	9.18	8.26	31.95	21.07	3.6	2
C1A	20230106	Sunny	Moderate	Mid-Flood	Surface	1	15:02	9.45	8.3	31.18	21.1	4.3	3
C1A	20230106	Sunny	Moderate	Mid-Flood	Surface	1	15:02	9.53	8.33	31.19	21.11	3.9	3
C1A	20230106	Sunny	Moderate	Mid-Flood	Middle	6	15:01	9.53	8.33	31.12	21.16	4.0	3
C1A	20230106	Sunny	Moderate	Mid-Flood	Middle	6	15:01	9.49	8.37	31.12	21.12	4.2	3
C1A	20230106	Sunny	Moderate	Mid-Flood	Bottom	11	15:00	9.48	8.36	31.2	21.11	4.8	2
C1A	20230106	Sunny	Moderate	Mid-Flood	Bottom	11	15:00	9.45	8.34	31.05	21.16	4.6	3
C2A	20230106	Sunny	Moderate	Mid-Flood	Surface	1	15:02	8.33	8.24	30.76	21.38	4.9	2
C2A	20230106	Sunny	Moderate	Mid-Flood	Surface	1	15:02	8.33	8.29	30.67	21.36	4.9	2
C2A	20230106	Sunny	Moderate	Mid-Flood	Middle	5.9	15:01	8.32	8.29	30.8	21.38	5.2	3
C2A	20230106	Sunny	Moderate	Mid-Flood	Middle	5.9	15:01	8.33	8.22	30.74	21.38	5.1	2
C2A	20230106	Sunny	Moderate	Mid-Flood	Bottom	10.8	15:00	8.35	8.27	30.79	21.34	5.2	6
C2A	20230106	Sunny	Moderate	Mid-Flood	Bottom	10.8	15:00	8.36	8.21	30.73	21.36	5.3	4
CR1	20230106	Sunny	Moderate	Mid-Flood	Surface	1	16:34	9.47	8.34	30.98	21.1	3.7	3
CR1	20230106	Sunny	Moderate	Mid-Flood	Surface	1	16:34	9.45	8.37	31.01	21.06	3.6	2
CR1	20230106	Sunny	Moderate	Mid-Flood	Middle	6	16:33	9.5	8.34	30.93	21.11	3.8	7
CR1	20230106	Sunny	Moderate	Mid-Flood	Middle	6	16:33	9.42	8.34	31.01	21.12	3.8	5
CR1	20230106	Sunny	Moderate	Mid-Flood	Bottom	11	16:32	9.44	8.33	31	21.07	4.1	3
CR1	20230106	Sunny	Moderate	Mid-Flood	Bottom	11	16:32	9.49	8.33	31.11	21.09	4.1	3
CR2	20230106	Sunny	Moderate	Mid-Flood	Surface	1	16:18	8.89	8.28	32.11	21.28	3.2	3
CR2	20230106	Sunny	Moderate	Mid-Flood	Surface	1	16:18	8.86	8.24	32.11	21.24	3.0	2
CR2	20230106	Sunny	Moderate	Mid-Flood	Middle	5.65	16:17	8.82	8.28	32.05	21.27	3.3	4
CR2	20230106	Sunny	Moderate	Mid-Flood	Middle	5.65	16:17	8.86	8.25	32.07	21.22	3.2	2
CR2	20230106	Sunny	Moderate	Mid-Flood	Bottom	10.3	16:16	8.92	8.27	32.05	21.23	3.6	4
CR2	20230106	Sunny	Moderate	Mid-Flood	Bottom	10.3	16:16	8.91	8.26	32.07	21.25	3.4	3
F1A	20230106	Sunny	Moderate	Mid-Flood	Surface	1	15:49	9.08	8.3	32.2	21.42	3.1	2
F1A	20230106	Sunny	Moderate	Mid-Flood	Surface	1	15:49	9.05	8.32	32.35	21.43	3.3	3
F1A	20230106	Sunny	Moderate	Mid-Flood	Middle	3.9	15:48	9.1	8.32	32.29	21.4	3.4	3

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

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	20230106	Sunny	Moderate	Mid-Flood	Middle	3.9	15:48	9.04	8.36	32.36	21.42	3.3	2
F1A	20230106	Sunny	Moderate	Mid-Flood	Bottom	6.8	15:47	9.05	8.31	32.18	21.36	3.4	2
F1A	20230106	Sunny	Moderate	Mid-Flood	Bottom	6.8	15:47	9.07	8.33	32.19	21.41	3.7	2
H1	20230106	Sunny	Moderate	Mid-Flood	Surface	1	16:06	9.43	8.27	31.11	21.12	3.0	2
H1	20230106	Sunny	Moderate	Mid-Flood	Surface	1	16:06	9.37	8.28	31.17	21.08	2.9	2
H1	20230106	Sunny	Moderate	Mid-Flood	Middle	3.95	16:05	9.44	8.27	31.08	21.15	3.2	2
H1	20230106	Sunny	Moderate	Mid-Flood	Middle	3.95	16:05	9.35	8.34	31.13	21.12	3.3	2
H1	20230106	Sunny	Moderate	Mid-Flood	Bottom	6.9	16:04	9.45	8.28	31.05	21.14	3.4	4
H1	20230106	Sunny	Moderate	Mid-Flood	Bottom	6.9	16:04	9.42	8.33	30.95	21.13	3.3	2
M1	20230106	Sunny	Moderate	Mid-Flood	Surface	1	16:13	8.84	8.34	30.97	21.21	3.0	3
M1	20230106	Sunny	Moderate	Mid-Flood	Surface	1	16:13	8.78	8.37	31.15	21.28	3.3	3
M1	20230106	Sunny	Moderate	Mid-Flood	Middle	4.3	16:12	8.77	8.29	31.2	21.22	3.1	3
M1	20230106	Sunny	Moderate	Mid-Flood	Middle	4.3	16:12	8.82	8.31	31.06	21.24	3.3	3
M1	20230106	Sunny	Moderate	Mid-Flood	Bottom	7.6	16:11	8.74	8.29	31.04	21.2	3.5	2
M1	20230106	Sunny	Moderate	Mid-Flood	Bottom	7.6	16:11	8.76	8.31	31.04	21.22	3.6	4
B1	20230109	Cloudy	Moderate	Mid-Ebb	Surface	1	12:53	8.27	8.23	32.3	20.35	3.5	8
B1	20230109	Cloudy	Moderate	Mid-Ebb	Surface	1	12:53	8.15	8.24	32.47	20.32	3.6	6
B1	20230109	Cloudy	Moderate	Mid-Ebb	Bottom	3.5	12:52	8.19	8.22	32.42	20.35	3.7	5
B1	20230109	Cloudy	Moderate	Mid-Ebb	Bottom	3.5	12:52	8.23	8.27	32.33	20.25	3.6	5
B2	20230109	Cloudy	Moderate	Mid-Ebb	Surface	1	13:07	8.37	8.25	32.2	20.49	3.2	6
B2	20230109	Cloudy	Moderate	Mid-Ebb	Surface	1	13:07	8.35	8.29	32.22	20.45	3.1	5
B2	20230109	Cloudy	Moderate	Mid-Ebb	Bottom	4.5	13:06	8.41	8.31	31.97	20.48	4.2	9
B2	20230109	Cloudy	Moderate	Mid-Ebb	Bottom	4.5	13:06	8.35	8.32	32.21	20.41	4.3	7
B3	20230109	Cloudy	Moderate	Mid-Ebb	Surface	1	13:41	8.85	8.35	32.02	20.66	4.3	8
B3	20230109	Cloudy	Moderate	Mid-Ebb	Surface	1	13:41	8.96	8.35	32.21	20.66	4.0	6
B3	20230109	Cloudy	Moderate	Mid-Ebb	Bottom	3.6	13:40	9.05	8.34	32.22	20.63	4.6	6
B3	20230109	Cloudy	Moderate	Mid-Ebb	Bottom	3.6	13:40	8.96	8.3	32.17	20.72	4.6	6
B4	20230109	Cloudy	Moderate	Mid-Ebb	Surface	1	13:31	8.83	8.33	31.51	20.53	4.1	4
B4	20230109	Cloudy	Moderate	Mid-Ebb	Surface	1	13:31	8.84	8.34	31.49	20.55	4.0	6
B4	20230109	Cloudy	Moderate	Mid-Ebb	Bottom	4	13:30	8.64	8.32	31.39	20.49	4.2	8
B4	20230109	Cloudy	Moderate	Mid-Ebb	Bottom	4	13:30	8.84	8.34	31.67	20.45	3.9	11
C1A	20230109	Cloudy	Moderate	Mid-Ebb	Surface	1	12:31	8.4	8.28	33.15	20.71	4.4	5
C1A	20230109	Cloudy	Moderate	Mid-Ebb	Surface	1	12:31	8.36	8.22	32.97	20.66	4.6	3
C1A	20230109	Cloudy	Moderate	Mid-Ebb	Middle	5.05	12:30	8.33	8.25	33.18	20.72	5.0	5
C1A	20230109	Cloudy	Moderate	Mid-Ebb	Middle	5.05	12:30	8.39	8.27	33.09	20.67	4.9	4
C1A	20230109	Cloudy	Moderate	Mid-Ebb	Bottom	9.1	12:29	8.25	8.25	33.21	20.72	5.1	5
C1A	20230109	Cloudy	Moderate	Mid-Ebb	Bottom	9.1	12:29	8.37	8.3	33.09	20.71	5.3	5

Turbidty (NTU) Date Location Weather Sea Condition Tidal Water Level Depth (m) Time DO (mg/L) pН Sal (ppt) Temp (°C) (YYYYMMDD) Note 1 4.3 C2A 20230109 Cloudy Moderate Mid-Ebb Surface 1 14:22 8.57 8.3 32.37 20.62 4.2 C2A 20230109 Moderate Mid-Ebb Surface 14:22 8.55 8.23 32.23 20.63 Cloudy 1 20.59 C2A 20230109 Cloudy Moderate Mid-Ebb Middle 5.85 14:21 8.44 8.29 32.36 4.4 5.85 14:21 32.27 20.61 C2A 20230109 Cloudy Moderate Mid-Ebb Middle 8.51 8.3 4.4 4.8 C2A 20230109 Moderate Mid-Ebb 10.7 8.53 8.21 20.64 Cloudy Bottom 14:20 32.38 C2A 20230109 8.23 20.59 4.7 Cloudy Moderate Mid-Ebb 10.7 14:20 8.45 32.22 Bottom 3.9 CR1 20230109 Cloudy Moderate Mid-Ebb Surface 1 14:01 8.62 8.3 31.6 20.46 1 8.5 8.22 3.3 CR1 20230109 Moderate Mid-Ebb 31.38 20.48 Cloudy Surface 14:01 3.7 CR1 20230109 Cloudy Moderate Mid-Ebb Middle 6.9 14:00 8.52 8.28 31.45 20.42 CR1 20230109 Cloudy Moderate Mid-Ebb Middle 6.9 14:00 8.44 8.26 31.45 20.44 3.9 12.8 4.1 CR1 20230109 Moderate Mid-Ebb 13:59 8.55 8.29 31.45 20.41 Cloudy Bottom CR1 20230109 Moderate 20.49 3.5 Mid-Ebb 12.8 13:59 8.56 8.22 31.47 Cloudy Bottom CR2 20230109 Cloudy Moderate Mid-Ebb Surface 1 13:46 8.43 8.26 32.93 20.29 3.6 CR2 20230109 Mid-Ebb 1 32.99 20.37 3.7 Moderate Surface 13:46 8.48 8.28 Cloudy 4.1 CR2 20230109 Cloudy Moderate Mid-Ebb Middle 5.75 13:45 8.33 8.3 32.9 20.31 CR2 20.33 3.6 20230109 Cloudy Moderate Mid-Ebb Middle 5.75 13:45 8.52 8.34 33 CR2 20230109 Cloudy Moderate Mid-Ebb Bottom 10.5 13:44 8.45 8.28 32.94 20.29 4.0 CR2 20230109 10.5 20.27 4.2 Moderate Mid-Ebb 13:44 8.42 8.33 32.99 Cloudy Bottom 3.7 F1A 20230109 Cloudy Moderate Mid-Ebb Surface 1 12:56 8.95 8.31 32.57 20.21 8.33 20.21 3.8 F1A 20230109 Moderate Mid-Ebb Surface 1 12:56 9.03 32.31 Cloudy 3.8 20230109 Moderate 4.3 8.96 8.29 20.31 F1A Cloudy Mid-Ebb Middle 12:55 32.33 F1A 20230109 Cloudy Moderate Mid-Ebb Middle 4.3 12:55 9.09 8.3 32.47 20.29 4.0 F1A 20230109 Cloudy Moderate Mid-Ebb Bottom 7.6 12:54 8.91 8.29 32.43 20.24 4.3 20.25 4.2 F1A 20230109 Moderate Mid-Ebb 7.6 12:54 9.06 8.35 32.56 Cloudy Bottom 3.9 H1 20230109 Cloudy Moderate Mid-Ebb Surface 1 13:34 8.36 8.33 31.76 20.41 4.2 H1 20230109 Moderate Mid-Ebb Surface 1 13:34 8.27 8.33 31.66 20.38 Cloudy 4.5 4.2 H1 20230109 Moderate Mid-Ebb Middle 13:33 8.26 8.29 31.81 20.43 Cloudy 20.37 4.0 H1 20230109 Cloudy Moderate Mid-Ebb Middle 4.5 13:33 8.25 8.31 31.74 H1 20230109 Moderate 8 20.43 4.8 Cloudy Mid-Ebb Bottom 13:32 8.25 8.35 31.77 8 H1 20230109 Moderate Mid-Ebb 13:32 8.35 8.34 31.81 20.36 4.8 Cloudy Bottom 20230109 12:31 20.25 4.7 M1 Cloudy Moderate Mid-Ebb Surface 1 9.21 8.33 32.9 1 32.86 20.31 4.3 M1 20230109 Cloudy Moderate Mid-Ebb Surface 12:31 9.26 8.37 4.8 M1 20230109 Moderate Mid-Ebb Middle 4.35 12:30 9.15 8.29 32.91 20.31 Cloudy 5.0 M1 20230109 Cloudy Moderate Mid-Ebb Middle 4.35 12:30 9.3 8.33 32.88 20.33 M1 20230109 20.3 5.1 Moderate Mid-Ebb 7.7 12:29 9.35 8.31 32.91 Cloudy Bottom M1 20230109 Mid-Ebb 7.7 12:29 9.34 8.32 20.34 4.9 Cloudy Moderate Bottom 32.88 B1 20230109 15:37 8.31 20.6 3.4 Cloudy Moderate Mid-Flood Surface 1 9.36 31.45

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

SS (mg/L)

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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)
B1	20230109	Cloudy	Moderate	Mid-Flood	Surface	1	15:37	9.39	8.31	31.7	20.59	3.2	3
B1	20230109	Cloudy	Moderate	Mid-Flood	Bottom	4.4	15:36	9.26	8.26	31.58	20.57	3.6	6
B1	20230109	Cloudy	Moderate	Mid-Flood	Bottom	4.4	15:36	9.43	8.29	31.61	20.59	3.5	9
B2	20230109	Cloudy	Moderate	Mid-Flood	Surface	1	15:52	8.24	8.26	32.38	20.53	3.3	3
B2	20230109	Cloudy	Moderate	Mid-Flood	Surface	1	15:52	8.44	8.26	32.33	20.43	3.6	3
B2	20230109	Cloudy	Moderate	Mid-Flood	Bottom	3.6	15:51	8.37	8.26	32.46	20.4	3.5	3
B2	20230109	Cloudy	Moderate	Mid-Flood	Bottom	3.6	15:51	8.22	8.27	32.2	20.5	3.4	4
B3	20230109	Cloudy	Moderate	Mid-Flood	Surface	1	15:26	8.55	8.26	32.49	20.73	3.6	4
B3	20230109	Cloudy	Moderate	Mid-Flood	Surface	1	15:26	8.6	8.32	32.53	20.68	3.4	4
B3	20230109	Cloudy	Moderate	Mid-Flood	Bottom	3.6	15:25	8.65	8.26	32.38	20.74	3.9	4
B3	20230109	Cloudy	Moderate	Mid-Flood	Bottom	3.6	15:25	8.67	8.32	32.42	20.77	3.6	2
B4	20230109	Cloudy	Moderate	Mid-Flood	Surface	1	15:36	9.15	8.29	33.16	20.48	4.0	3
B4	20230109	Cloudy	Moderate	Mid-Flood	Surface	1	15:36	9.33	8.29	33.31	20.5	3.9	2
B4	20230109	Cloudy	Moderate	Mid-Flood	Bottom	3.8	15:35	9.18	8.23	33.22	20.51	4.4	9
B4	20230109	Cloudy	Moderate	Mid-Flood	Bottom	3.8	15:35	9.19	8.28	33.29	20.49	3.9	8
C1A	20230109	Cloudy	Moderate	Mid-Flood	Surface	1	15:15	8.55	8.34	33.02	20.49	4.5	7
C1A	20230109	Cloudy	Moderate	Mid-Flood	Surface	1	15:15	8.66	8.34	32.95	20.44	4.1	9
C1A	20230109	Cloudy	Moderate	Mid-Flood	Middle	5.7	15:14	8.59	8.37	33.16	20.42	4.7	12
C1A	20230109	Cloudy	Moderate	Mid-Flood	Middle	5.7	15:14	8.58	8.36	33.05	20.43	4.7	9
C1A	20230109	Cloudy	Moderate	Mid-Flood	Bottom	10.4	15:13	8.54	8.33	33.18	20.45	4.8	5
C1A	20230109	Cloudy	Moderate	Mid-Flood	Bottom	10.4	15:13	8.7	8.33	33.2	20.45	5.1	4
C2A	20230109	Cloudy	Moderate	Mid-Flood	Surface	1	15:15	8.62	8.3	32.05	20.57	4.9	5
C2A	20230109	Cloudy	Moderate	Mid-Flood	Surface	1	15:15	8.73	8.32	32.04	20.57	5.3	3
C2A	20230109	Cloudy	Moderate	Mid-Flood	Middle	5.85	15:14	8.79	8.28	32.07	20.53	5.1	3
C2A	20230109	Cloudy	Moderate	Mid-Flood	Middle	5.85	15:14	8.79	8.33	32.1	20.56	5.6	3
C2A	20230109	Cloudy	Moderate	Mid-Flood	Bottom	10.7	15:13	8.63	8.29	32.26	20.48	5.4	8
C2A	20230109	Cloudy	Moderate	Mid-Flood	Bottom	10.7	15:13	8.82	8.3	32.34	20.46	5.7	5
CR1	20230109	Cloudy	Moderate	Mid-Flood	Surface	1	16:49	8.36	8.32	32.82	20.53	4.2	3
CR1	20230109	Cloudy	Moderate	Mid-Flood	Surface	1	16:49	8.54	8.33	33.04	20.65	4.3	2
CR1	20230109	Cloudy	Moderate	Mid-Flood	Middle	6.5	16:48	8.33	8.28	33.04	20.66	4.3	4
CR1	20230109	Cloudy	Moderate	Mid-Flood	Middle	6.5	16:48	8.41	8.29	33	20.56	4.7	7
CR1	20230109	Cloudy	Moderate	Mid-Flood	Bottom	12	16:47	8.42	8.28	32.98	20.62	4.8	3
CR1	20230109	Cloudy	Moderate	Mid-Flood	Bottom	12	16:47	8.47	8.34	32.86	20.55	4.6	4
CR2	20230109	Cloudy	Moderate	Mid-Flood	Surface	1	16:33	8.35	8.35	32.21	20.48	4.4	15
CR2	20230109	Cloudy	Moderate	Mid-Flood	Surface	1	16:33	8.29	8.31	32.37	20.4	4.6	11
CR2	20230109	Cloudy	Moderate	Mid-Flood	Middle	5.6	16:32	8.35	8.31	32.31	20.5	4.2	4
CR2	20230109	Cloudy	Moderate	Mid-Flood	Middle	5.6	16:32	8.42	8.31	32.45	20.41	4.3	4

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

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)
CR2	20230109	Cloudy	Moderate	Mid-Flood	Bottom	10.2	16:31	8.32	8.31	32.35	20.4	5.5	5
CR2	20230109	Cloudy	Moderate	Mid-Flood	Bottom	10.2	16:31	8.23	8.33	32.32	20.46	4.9	7
F1A	20230109	Cloudy	Moderate	Mid-Flood	Surface	1	16:02	8.9	8.28	32.48	20.37	3.4	5
F1A	20230109	Cloudy	Moderate	Mid-Flood	Surface	1	16:02	8.83	8.3	32.33	20.42	4.0	4
F1A	20230109	Cloudy	Moderate	Mid-Flood	Middle	3.9	16:01	8.72	8.25	32.52	20.38	4.1	6
F1A	20230109	Cloudy	Moderate	Mid-Flood	Middle	3.9	16:01	8.94	8.26	32.52	20.48	3.6	10
F1A	20230109	Cloudy	Moderate	Mid-Flood	Bottom	6.8	16:00	8.89	8.25	32.45	20.4	4.4	4
F1A	20230109	Cloudy	Moderate	Mid-Flood	Bottom	6.8	16:00	8.87	8.33	32.57	20.48	4.2	6
H1	20230109	Cloudy	Moderate	Mid-Flood	Surface	1	16:19	9.01	8.23	32.82	20.54	3.6	2
H1	20230109	Cloudy	Moderate	Mid-Flood	Surface	1	16:19	8.82	8.27	32.77	20.58	3.7	3
H1	20230109	Cloudy	Moderate	Mid-Flood	Middle	4.25	16:18	8.93	8.23	32.86	20.61	3.5	2
H1	20230109	Cloudy	Moderate	Mid-Flood	Middle	4.25	16:18	8.9	8.26	32.95	20.68	3.9	2
H1	20230109	Cloudy	Moderate	Mid-Flood	Bottom	7.5	16:17	9.05	8.25	32.66	20.55	3.6	3
H1	20230109	Cloudy	Moderate	Mid-Flood	Bottom	7.5	16:17	8.97	8.28	32.84	20.57	3.8	4
M1	20230109	Cloudy	Moderate	Mid-Flood	Surface	1	16:25	8.23	8.26	32.96	20.68	3.6	4
M1	20230109	Cloudy	Moderate	Mid-Flood	Surface	1	16:25	8.22	8.23	33.12	20.57	3.6	5
M1	20230109	Cloudy	Moderate	Mid-Flood	Middle	4.1	16:24	8.2	8.3	33.18	20.64	3.7	16
M1	20230109	Cloudy	Moderate	Mid-Flood	Middle	4.1	16:24	8.37	8.3	33.1	20.62	4.1	12
M1	20230109	Cloudy	Moderate	Mid-Flood	Bottom	7.2	16:23	8.41	8.27	33.18	20.71	4.6	3
M1	20230109	Cloudy	Moderate	Mid-Flood	Bottom	7.2	16:23	8.24	8.28	33.05	20.62	4.3	2
B1	20230111	Cloudy	Moderate	Mid-Ebb	Surface	1	14:34	8.3	8.32	32.03	21.23	3.2	5
B1	20230111	Cloudy	Moderate	Mid-Ebb	Surface	1	14:34	8.19	8.27	31.96	21.09	3.2	5
B1	20230111	Cloudy	Moderate	Mid-Ebb	Bottom	4.1	14:33	8.33	8.33	32.11	21.15	3.4	5
B1	20230111	Cloudy	Moderate	Mid-Ebb	Bottom	4.1	14:33	8.29	8.29	31.94	21.16	3.4	4
B2	20230111	Cloudy	Moderate	Mid-Ebb	Surface	1	14:49	8.42	8.25	31.58	21.37	2.8	3
B2	20230111	Cloudy	Moderate	Mid-Ebb	Surface	1	14:49	8.4	8.21	31.68	21.48	3.3	4
B2	20230111	Cloudy	Moderate	Mid-Ebb	Bottom	4.9	14:48	8.33	8.25	31.5	21.47	3.0	4
B2	20230111	Cloudy	Moderate	Mid-Ebb	Bottom	4.9	14:48	8.35	8.25	31.56	21.38	2.9	4
B3	20230111	Cloudy	Moderate	Mid-Ebb	Surface	1	15:08	9.29	8.26	32.02	21.49	4.1	3
B3	20230111	Cloudy	Moderate	Mid-Ebb	Surface	1	15:08	9.18	8.29	31.88	21.37	3.9	6
B3	20230111	Cloudy	Moderate	Mid-Ebb	Bottom	4.4	15:07	9.27	8.33	31.91	21.35	4.4	4
B3	20230111	Cloudy	Moderate	Mid-Ebb	Bottom	4.4	15:07	9.27	8.28	32.01	21.36	4.5	4
B4	20230111	Cloudy	Moderate	Mid-Ebb	Surface	1	14:58	8.62	8.29	32.46	21.5	3.7	3
B4	20230111	Cloudy	Moderate	Mid-Ebb	Surface	1	14:58	8.76	8.27	32.56	21.57	3.7	5
B4	20230111	Cloudy	Moderate	Mid-Ebb	Bottom	3.6	14:57	8.71	8.27	32.59	21.58	3.8	6
B4	20230111	Cloudy	Moderate	Mid-Ebb	Bottom	3.6	14:57	8.64	8.27	32.59	21.58	4.0	3
C1A	20230111	Cloudy	Moderate	Mid-Ebb	Surface	1	14:06	8.73	8.27	32.87	21.25	5.1	6

Turbidty (NTU) Date Location Weather Sea Condition Tidal Water Level Depth (m) Time DO (mg/L) pН Sal (ppt) SS (mg/L) Temp (°C) (YYYYMMDD) Note 1 8.25 21.34 5.0 C1A 20230111 Cloudy Moderate Mid-Ebb Surface 1 14:06 8.73 32.85 6 C1A 20230111 Moderate Mid-Ebb Middle 4.95 14:05 8.84 8.26 32.87 21.24 5.0 4 Cloudy 5 C1A 20230111 Cloudy Moderate Mid-Ebb Middle 4.95 14:05 8.82 8.19 32.87 21.2 4.8 20230111 8.9 32.71 5.5 5 C1A Cloudy Moderate Mid-Ebb Bottom 14:04 8.74 8.26 21.2 5.2 7 20230111 Moderate Mid-Ebb 8.9 8.28 21.3 C1A Cloudy Bottom 14:04 8.86 32.92 C2A 20230111 Moderate 21.4 4.1 5 Cloudy Mid-Ebb Surface 1 16:07 8.3 8.26 31.13 4.3 6 C2A 20230111 Cloudy Moderate Mid-Ebb Surface 1 16:07 8.31 8.31 31.34 21.49 C2A 6 4.7 5 20230111 Moderate Mid-Ebb 8.35 8.23 21.47 Cloudy Middle 16:06 31.14 6 C2A 20230111 Cloudy Moderate Mid-Ebb Middle 6 16:06 8.37 8.24 31.23 21.47 4.4 21.36 4.8 5 C2A 20230111 Cloudy Moderate Mid-Ebb Bottom 11 16:05 8.43 8.26 31.13 20230111 4.7 5 C2A Moderate Mid-Ebb 11 16:05 8.38 8.29 31.33 21.49 Cloudy Bottom CR1 Moderate 21.25 3.9 4 20230111 Mid-Ebb Surface 1 15:47 8.62 8.26 31.58 Cloudy 20230111 4.0 CR1 Cloudy Moderate Mid-Ebb Surface 1 15:47 8.63 8.26 31.62 21.28 4 CR1 20230111 Mid-Ebb 6.15 8.59 8.19 21.23 3.9 7 Moderate Middle 15:46 31.52 Cloudy 4.1 5 CR1 20230111 Cloudy Moderate Mid-Ebb Middle 6.15 15:46 8.52 8.26 31.54 21.26 21.22 6 CR1 20230111 Cloudy Moderate Mid-Ebb Bottom 11.3 15:45 8.68 8.19 31.46 4.4 4.2 7 CR1 20230111 Cloudy Moderate Mid-Ebb Bottom 11.3 15:45 8.64 8.26 31.52 21.13 3.5 CR2 20230111 21.32 6 Moderate Mid-Ebb Surface 1 15:29 8.85 8.31 32.36 Cloudy 3.9 7 CR2 20230111 Cloudy Moderate Mid-Ebb Surface 1 15:29 8.94 8.33 32.34 21.22 CR2 5.8 21.22 4.0 7 20230111 Moderate Mid-Ebb Middle 15:28 8.9 8.28 32.45 Cloudy 3.8 CR2 20230111 Moderate 5.8 8.97 8.28 21.31 6 Cloudy Mid-Ebb Middle 15:28 32.24 CR2 4.7 5 20230111 Cloudy Moderate Mid-Ebb Bottom 10.6 15:27 8.89 8.33 32.36 21.36 4 CR2 20230111 Cloudy Moderate Mid-Ebb Bottom 10.6 15:27 8.81 8.3 32.3 21.32 4.8 8.23 21.35 3.6 F1A 20230111 Moderate Mid-Ebb Surface 1 14:33 8.84 31.44 4 Cloudy 20230111 21.46 4.0 7 F1A Cloudy Moderate Mid-Ebb Surface 1 14:33 8.93 8.23 31.41 Moderate 4.2 3 F1A 20230111 Mid-Ebb Middle 4.55 14:32 8.87 8.23 31.37 21.47 Cloudy F1A 20230111 Moderate Mid-Ebb Middle 4.55 14:32 8.87 8.25 31.4 21.33 4.4 4 Cloudy 4.9 3 F1A 20230111 Cloudy Moderate Mid-Ebb Bottom 8.1 14:31 8.89 8.28 31.41 21.38 Moderate 8.1 8.29 21.45 4.3 4 F1A 20230111 Cloudy Mid-Ebb Bottom 14:31 8.89 31.47 3.3 H1 20230111 Moderate Mid-Ebb 8.28 32.73 21.25 4 Cloudy Surface 1 15:15 8.6 20230111 21.24 3.4 H1 Cloudy Moderate Mid-Ebb Surface 1 15:15 8.67 8.28 32.82 4 21.23 3.4 4 H1 20230111 Cloudy Moderate Mid-Ebb Middle 3.9 15:14 8.64 8.29 32.86 21.12 3.5 H1 20230111 Moderate Mid-Ebb Middle 3.9 15:14 8.62 8.19 32.88 4 Cloudy H1 21.12 3.7 13 20230111 Cloudy Moderate Mid-Ebb Bottom 6.8 15:13 8.58 8.26 32.87 H1 20230111 6.8 21.12 3.6 9 Moderate Mid-Ebb 15:13 8.71 8.26 32.92 Cloudy Bottom 3.9 4 M1 Mid-Ebb 8.28 31.4 21.52 20230111 Cloudy Moderate Surface 1 14:06 8.88 20230111 1 8.94 8.32 31.35 21.42 3.7 5 M1 Cloudy Moderate Mid-Ebb Surface 14:06

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)
M1	20230111	Cloudy	Moderate	Mid-Ebb	Middle	4.45	14:05	8.97	8.27	31.35	21.5	4.0	5
M1	20230111	Cloudy	Moderate	Mid-Ebb	Middle	4.45	14:05	8.82	8.28	31.46	21.39	4.3	5
M1	20230111	Cloudy	Moderate	Mid-Ebb	Bottom	7.9	14:04	8.96	8.27	31.48	21.47	4.8	4
M1	20230111	Cloudy	Moderate	Mid-Ebb	Bottom	7.9	14:04	8.95	8.28	31.37	21.49	4.5	6
B1	20230111	Cloudy	Moderate	Mid-Flood	Surface	1	18:19	8.61	8.23	31.52	21.56	3.9	12
B1	20230111	Cloudy	Moderate	Mid-Flood	Surface	1	18:19	8.63	8.25	31.56	21.62	3.4	6
B1	20230111	Cloudy	Moderate	Mid-Flood	Bottom	4.4	18:18	8.61	8.26	31.44	21.52	4.0	4
B1	20230111	Cloudy	Moderate	Mid-Flood	Bottom	4.4	18:18	8.51	8.22	31.44	21.51	4.1	4
B2	20230111	Cloudy	Moderate	Mid-Flood	Surface	1	18:32	8.51	8.28	32.34	21.67	3.1	4
B2	20230111	Cloudy	Moderate	Mid-Flood	Surface	1	18:32	8.5	8.33	32.26	21.58	3.3	4
B2	20230111	Cloudy	Moderate	Mid-Flood	Bottom	4.2	18:31	8.66	8.33	32.23	21.63	3.6	4
B2	20230111	Cloudy	Moderate	Mid-Flood	Bottom	4.2	18:31	8.48	8.23	32.28	21.69	3.2	4
B3	20230111	Cloudy	Moderate	Mid-Flood	Surface	1	17:02	8.56	8.26	31.52	21.41	4.7	3
B3	20230111	Cloudy	Moderate	Mid-Flood	Surface	1	17:02	8.61	8.27	31.43	21.37	4.9	6
B3	20230111	Cloudy	Moderate	Mid-Flood	Bottom	3.7	17:01	8.57	8.25	31.37	21.44	5.1	3
B3	20230111	Cloudy	Moderate	Mid-Flood	Bottom	3.7	17:01	8.59	8.27	31.37	21.36	4.8	4
B4	20230111	Cloudy	Moderate	Mid-Flood	Surface	1	17:13	8.58	8.24	31.36	21.13	4.6	2
B4	20230111	Cloudy	Moderate	Mid-Flood	Surface	1	17:13	8.66	8.26	31.21	21.13	4.6	3
B4	20230111	Cloudy	Moderate	Mid-Flood	Bottom	3.8	17:12	8.61	8.24	31.18	21.19	5.1	4
B4	20230111	Cloudy	Moderate	Mid-Flood	Bottom	3.8	17:12	8.66	8.22	31.13	21.29	5.1	3
C1A	20230111	Cloudy	Moderate	Mid-Flood	Surface	1	17:53	9.61	8.31	32.13	21.55	5.1	7
C1A	20230111	Cloudy	Moderate	Mid-Flood	Surface	1	17:53	9.66	8.32	32.26	21.57	5.1	4
C1A	20230111	Cloudy	Moderate	Mid-Flood	Middle	5.65	17:52	9.57	8.32	32.15	21.52	5.5	3
C1A	20230111	Cloudy	Moderate	Mid-Flood	Middle	5.65	17:52	9.73	8.32	32.29	21.43	5.9	5
C1A	20230111	Cloudy	Moderate	Mid-Flood	Bottom	10.3	17:51	9.48	8.33	32.17	21.49	6.0	4
C1A	20230111	Cloudy	Moderate	Mid-Flood	Bottom	10.3	17:51	9.54	8.33	32.16	21.57	5.7	3
C2A	20230111	Cloudy	Moderate	Mid-Flood	Surface	1	17:03	8.58	8.29	32.32	21.58	5.2	3
C2A	20230111	Cloudy	Moderate	Mid-Flood	Surface	1	17:03	8.53	8.3	32.13	21.64	5.9	5
C2A	20230111	Cloudy	Moderate	Mid-Flood	Middle	5.9	17:02	8.69	8.24	32.23	21.63	6.6	4
C2A	20230111	Cloudy	Moderate	Mid-Flood	Middle	5.9	17:02	8.56	8.28	32.16	21.57	6.5	4
C2A	20230111	Cloudy	Moderate	Mid-Flood	Bottom	10.8	17:01	8.69	8.29	32.33	21.61	6.6	5
C2A	20230111	Cloudy	Moderate	Mid-Flood	Bottom	10.8	17:01	8.75	8.33	32.21	21.56	6.9	4
CR1	20230111	Cloudy	Moderate	Mid-Flood	Surface	1	17:19	8.75	8.34	31.42	21.43	4.6	4
CR1	20230111	Cloudy	Moderate	Mid-Flood	Surface	1	17:19	8.83	8.34	31.45	21.36	4.4	5
CR1	20230111	Cloudy	Moderate	Mid-Flood	Middle	6.2	17:18	8.68	8.29	31.33	21.47	5.3	4
CR1	20230111	Cloudy	Moderate	Mid-Flood	Middle	6.2	17:18	8.83	8.33	31.35	21.33	4.9	6
CR1	20230111	Cloudy	Moderate	Mid-Flood	Bottom	11.4	17:17	8.77	8.32	31.36	21.35	5.5	5

Turbidty (NTU) Date Location Weather Sea Condition Tidal Water Level Depth (m) Time DO (mg/L) pН Sal (ppt) SS (mg/L) Temp (°C) (YYYYMMDD) Note 1 8.33 21.35 5.1 CR1 20230111 Cloudy Moderate Mid-Flood Bottom 11.4 17:17 8.84 31.43 5 CR2 20230111 Moderate Mid-Flood Surface 17:35 8.75 8.25 31.02 21.32 4.9 4 Cloudy 1 21.32 5.3 1 CR2 20230111 Cloudy Moderate Mid-Flood Surface 17:35 8.76 8.26 30.89 4 CR2 20230111 21.37 5.6 Cloudy Moderate Mid-Flood Middle 5.4 17:34 8.81 8.23 31.06 4 CR2 5.2 3 20230111 Moderate Mid-Flood 5.4 8.24 21.24 Cloudy Middle 17:34 8.94 30.9 3 CR2 20230111 Moderate 9.8 8.95 21.38 6.1 Cloudy Mid-Flood 17:33 8.24 31.11 Bottom CR2 9.8 3 20230111 Cloudy Moderate Mid-Flood Bottom 17:33 8.92 8.26 30.99 21.36 5.6 8.23 4.8 4 F1A 20230111 Moderate Mid-Flood 1 17:36 32.3 21.55 Cloudy Surface 9.11 F1A 20230111 Cloudy Moderate Mid-Flood Surface 1 17:36 9.06 8.27 32.2 21.51 5.0 4 21.37 5.0 F1A 20230111 Cloudy Moderate Mid-Flood Middle 4.15 17:35 8.89 8.22 32.18 4 20230111 4.15 4.4 F1A Moderate Mid-Flood Middle 17:35 9.05 8.23 32.25 21.4 4 Cloudy Moderate 21.48 4.7 4 F1A 20230111 Mid-Flood 7.3 17:34 8.92 8.26 32.39 Cloudy Bottom 4.9 6 F1A 20230111 Cloudy Moderate Mid-Flood Bottom 7.3 17:34 9.11 8.26 32.3 21.46 H1 20230111 8.27 32.59 21.22 4.7 5 Moderate Mid-Flood 1 18:59 8.8 Cloudy Surface 4.9 3 1 H1 20230111 Cloudy Moderate Mid-Flood Surface 18:59 8.64 8.32 32.42 21.24 5 5.2 H1 20230111 Cloudy Moderate Mid-Flood Middle 3.8 18:58 8.59 8.31 32.49 21.34 4.5 4 H1 20230111 Cloudy Moderate Mid-Flood Middle 3.8 18:58 8.65 8.32 32.6 21.35 20230111 21.29 4.7 6 H1 Moderate Mid-Flood 6.6 18:57 8.8 8.33 32.55 Cloudy Bottom 21.26 4.6 7 H1 20230111 Cloudy Moderate Mid-Flood Bottom 6.6 18:57 8.71 8.34 32.54 8.33 21.26 3.7 6 M1 20230111 Moderate Mid-Flood 1 17:57 8.81 32.18 Cloudy Surface 3.8 20230111 Moderate 1 8.89 8.31 21.38 9 M1 Mid-Flood Surface 17:57 32.32 Cloudy 3.9 5 M1 20230111 Cloudy Moderate Mid-Flood Middle 4.15 17:56 8.88 8.26 32.23 21.27 6 M1 20230111 Cloudy Moderate Mid-Flood Middle 4.15 17:56 8.68 8.31 32.26 21.36 3.8 21.3 7 M1 20230111 Moderate Mid-Flood 7.3 17:55 8.72 8.3 32.22 4.4 Cloudy Bottom 5 20230111 7.3 4.0 M1 Cloudy Moderate Mid-Flood Bottom 17:55 8.77 8.31 32.26 21.29 3.2 2 B1 20230113 Moderate Mid-Flood Surface 10:37 8.74 8.21 32.95 21.73 Cloudy 1 3 3.3 B1 20230113 Moderate Mid-Flood 1 10:37 8.74 8.25 32.94 21.58 Cloudy Surface 3.9 21.77 3.3 3 B1 20230113 Cloudy Moderate Mid-Flood Bottom 10:36 8.63 8.21 32.9 B1 20230113 Moderate 3.9 8.59 21.72 3.2 5 Cloudy Mid-Flood Bottom 10:36 8.26 33.01 2 3.8 B2 20230113 Moderate Mid-Flood 1 8.97 8.23 33.24 21.48 Cloudy Surface 10:56 20230113 3.6 3 B2 Cloudy Moderate Mid-Flood Surface 1 10:56 9.06 8.27 33.24 21.46 B2 21.51 3.4 4 20230113 Cloudy Moderate Mid-Flood Bottom 3.8 10:55 8.93 8.22 33.44 3.3 21.55 3 B2 20230113 Moderate Mid-Flood 3.8 10:55 9 8.28 33.29 Cloudy Bottom B3 3 20230113 Cloudy Moderate Mid-Flood Surface 1 12:12 8.98 8.22 32.03 21.62 4.4 B3 20230113 1 8.23 21.55 4.0 2 Moderate Mid-Flood 12:12 9.1 31.96 Cloudy Surface B3 3 20230113 3.6 8.97 8.24 21.46 4.6 Cloudy Moderate Mid-Flood Bottom 12:11 31.88 3 B3 20230113 8.25 Cloudy Moderate Mid-Flood Bottom 3.6 12:11 9.11 31.97 21.46 4.4

Turbidty (NTU) Date Location Weather Sea Condition Tidal Water Level Depth (m) Time DO (mg/L) pН Sal (ppt) SS (mg/L) Temp (°C) (YYYYMMDD) Note 1 21.74 3.9 Β4 20230113 Cloudy Moderate Mid-Flood Surface 12:01 8.83 8.17 32.98 2 1 B4 20230113 Moderate Mid-Flood Surface 12:01 8.79 8.18 32.98 21.69 3.9 4 Cloudy 1 20230113 4.2 Β4 2 Cloudy Moderate Mid-Flood Bottom 4 12:00 8.79 8.18 33.04 21.61 20230113 21.58 4.0 2 B4 Cloudy Moderate Mid-Flood Bottom 4 12:00 8.72 8.2 32.95 4.3 4 20230113 Moderate Mid-Flood 8.78 8.15 21.81 C1A Cloudy Surface 1 10:11 31.66 20230113 Moderate 21.83 4.3 2 C1A Cloudy Mid-Flood Surface 1 10:11 8.84 8.2 31.66 4.7 3 C1A 20230113 Cloudy Moderate Mid-Flood Middle 5.55 10:10 8.69 8.16 31.68 21.63 4.5 2 C1A 20230113 Moderate Mid-Flood 5.55 8.84 8.2 21.77 Cloudy Middle 10:10 31.69 3 C1A 20230113 Cloudy Moderate Mid-Flood Bottom 10.1 10:09 8.79 8.16 31.56 21.8 5.0 21.72 4.8 C1A 20230113 Cloudy Moderate Mid-Flood Bottom 10.1 10:09 8.78 8.18 31.54 4 5.8 C2A 20230113 Moderate Mid-Flood Surface 1 09:22 9.21 8.19 33.1 21.4 4 Cloudy 5.7 C2A 20230113 Moderate 4 Mid-Flood Surface 1 09:22 9.19 8.21 33.02 21.21 Cloudy 5.8 5 C2A 20230113 Cloudy Moderate Mid-Flood Middle 5.75 09:21 9.15 8.16 33.22 21.28 C2A 20230113 5.75 21.42 5.8 3 Moderate Mid-Flood Middle 09:21 9.16 8.2 33.08 Cloudy 6.3 4 C2A 20230113 Cloudy Moderate Mid-Flood Bottom 10.5 09:20 9.14 8.17 33.09 21.41 6.0 2 C2A 20230113 Cloudy Moderate Mid-Flood Bottom 10.5 09:20 9.32 8.24 33.18 21.41 3.9 3 CR1 20230113 Cloudy Moderate Mid-Flood Surface 1 09:40 8.35 8.22 32.49 21.3 CR1 20230113 1 21.4 3.5 4 Moderate Mid-Flood 09:40 8.27 8.25 32.6 Cloudy Surface 3 CR1 20230113 Cloudy Moderate Mid-Flood Middle 6.2 09:39 8.21 8.2 32.51 21.31 4.4 CR1 20230113 8.25 21.22 4.0 4 Moderate Mid-Flood Middle 6.2 09:39 8.36 32.54 Cloudy CR1 20230113 Moderate 8.37 8.22 21.33 4.7 3 Cloudy Mid-Flood 11.4 09:38 32.66 Bottom 3 CR1 20230113 Cloudy Moderate Mid-Flood Bottom 11.4 09:38 8.3 8.24 32.63 21.24 4.3 3 CR2 20230113 Cloudy Moderate Mid-Flood Surface 1 09:54 9.41 8.23 33.13 21.37 4.7 3 CR2 4.2 20230113 Moderate Mid-Flood 1 09:54 9.25 8.29 33.11 21.41 Cloudy Surface 2 20230113 5.55 5.1 CR2 Cloudy Moderate Mid-Flood Middle 09:53 9.27 8.28 33.22 21.22 CR2 21.33 4.8 3 20230113 Moderate Mid-Flood 5.55 09:53 9.31 8.28 33.12 Cloudy Middle 5.5 3 CR2 20230113 Moderate Mid-Flood 10.1 09:52 9.38 8.23 33.1 21.42 Cloudy Bottom CR2 21.38 5.6 3 20230113 Cloudy Moderate Mid-Flood Bottom 10.1 09:52 9.27 8.3 32.99 F1A 20230113 Moderate 8.25 21.47 3.5 3 Cloudy Mid-Flood Surface 1 11:22 8.81 32.87 2 3.6 F1A 20230113 Moderate Mid-Flood 1 11:22 8.73 8.26 32.72 21.37 Cloudy Surface 20230113 4.3 4.1 3 F1A Cloudy Moderate Mid-Flood Middle 11:21 8.87 8.24 32.86 21.44 21.57 4.0 4 F1A 20230113 Cloudy Moderate Mid-Flood Middle 4.3 11:21 8.84 8.29 32.71 21.56 3 F1A 20230113 Moderate Mid-Flood 7.6 11:20 8.8 8.23 32.87 4.1 Cloudy Bottom 21.42 4 F1A 20230113 Cloudy Moderate Mid-Flood Bottom 7.6 11:20 8.71 8.24 32.77 4.0 H1 20230113 3 Moderate Mid-Flood 1 11:25 9.11 8.17 31.57 21.36 4.1 Cloudy Surface 2 H1 20230113 1 11:25 8.19 21.35 3.9 Cloudy Moderate Mid-Flood Surface 9.16 31.55 3 H1 20230113 3.95 4.3 Cloudy Moderate Mid-Flood Middle 11:24 9.15 8.15 31.68 21.41

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) Note 1	SS (mg/L)
H1	20230113	Cloudy	Moderate	Mid-Flood	Middle	3.95	11:24	9.15	8.16	31.6	21.42	4.6	2
H1	20230113	Cloudy	Moderate	Mid-Flood	Bottom	6.9	11:23	9.1	8.17	31.55	21.34	5.0	3
H1	20230113	Cloudy	Moderate	Mid-Flood	Bottom	6.9	11:23	9.18	8.2	31.76	21.43	4.7	4
M1	20230113	Cloudy	Moderate	Mid-Flood	Surface	1	10:55	9.06	8.16	31.77	21.32	3.5	4
M1	20230113	Cloudy	Moderate	Mid-Flood	Surface	1	10:55	8.99	8.21	31.75	21.49	3.4	2
M1	20230113	Cloudy	Moderate	Mid-Flood	Middle	3.85	10:54	9.05	8.16	31.9	21.37	4.0	4
M1	20230113	Cloudy	Moderate	Mid-Flood	Middle	3.85	10:54	9.02	8.17	31.88	21.3	3.6	2
M1	20230113	Cloudy	Moderate	Mid-Flood	Bottom	6.7	10:53	9.01	8.16	31.87	21.44	4.3	4
M1	20230113	Cloudy	Moderate	Mid-Flood	Bottom	6.7	10:53	8.9	8.18	31.76	21.4	4.2	4
B1	20230113	Cloudy	Moderate	Mid-Ebb	Surface	1	15:17	8.46	8.26	32.51	21.84	3.5	2
B1	20230113	Cloudy	Moderate	Mid-Ebb	Surface	1	15:17	8.32	8.27	32.44	21.88	3.4	3
B1	20230113	Cloudy	Moderate	Mid-Ebb	Bottom	4.1	15:16	8.21	8.23	32.53	21.74	3.3	4
B1	20230113	Cloudy	Moderate	Mid-Ebb	Bottom	4.1	15:16	8.25	8.25	32.5	21.86	3.6	4
B2	20230113	Cloudy	Moderate	Mid-Ebb	Surface	1	15:33	9.44	8.26	33.63	21.45	2.7	5
B2	20230113	Cloudy	Moderate	Mid-Ebb	Surface	1	15:33	9.53	8.3	33.65	21.49	3.1	3
B2	20230113	Cloudy	Moderate	Mid-Ebb	Bottom	4.8	15:32	9.57	8.23	33.6	21.51	3.1	3
B2	20230113	Cloudy	Moderate	Mid-Ebb	Bottom	4.8	15:32	9.36	8.26	33.59	21.36	2.9	3
B3	20230113	Cloudy	Moderate	Mid-Ebb	Surface	1	14:53	8.47	8.24	33.58	21.36	3.7	4
B3	20230113	Cloudy	Moderate	Mid-Ebb	Surface	1	14:53	8.24	8.26	33.75	21.36	3.9	4
B3	20230113	Cloudy	Moderate	Mid-Ebb	Bottom	3.6	14:52	8.26	8.24	33.46	21.52	4.1	3
B3	20230113	Cloudy	Moderate	Mid-Ebb	Bottom	3.6	14:52	8.36	8.24	33.48	21.33	4.7	4
B4	20230113	Cloudy	Moderate	Mid-Ebb	Surface	1	15:03	8.68	8.27	33	21.71	3.8	4
B4	20230113	Cloudy	Moderate	Mid-Ebb	Surface	1	15:03	8.84	8.28	32.85	21.66	3.4	3
B4	20230113	Cloudy	Moderate	Mid-Ebb	Bottom	3.6	15:02	8.81	8.24	32.85	21.74	4.2	3
B4	20230113	Cloudy	Moderate	Mid-Ebb	Bottom	3.6	15:02	8.76	8.25	32.9	21.65	4.4	3
C1A	20230113	Cloudy	Moderate	Mid-Ebb	Surface	1	14:54	8.42	8.29	33.03	21.64	4.9	5
C1A	20230113	Cloudy	Moderate	Mid-Ebb	Surface	1	14:54	8.44	8.27	33.14	21.63	4.6	4
C1A	20230113	Cloudy	Moderate	Mid-Ebb	Middle	5.35	14:53	8.59	8.29	33.07	21.47	5.0	3
C1A	20230113	Cloudy	Moderate	Mid-Ebb	Middle	5.35	14:53	8.45	8.23	33.08	21.65	5.2	3
C1A	20230113	Cloudy	Moderate	Mid-Ebb	Bottom	9.7	14:52	8.58	8.23	33.05	21.47	5.6	2
C1A	20230113	Cloudy	Moderate	Mid-Ebb	Bottom	9.7	14:52	8.41	8.24	33	21.58	5.4	3
C2A	20230113	Cloudy	Moderate	Mid-Ebb	Surface	1	16:42	8.2	8.25	32.4	21.7	4.4	4
C2A	20230113	Cloudy	Moderate	Mid-Ebb	Surface	1	16:42	8.47	8.28	32.43	21.74	4.7	3
C2A	20230113	Cloudy	Moderate	Mid-Ebb	Middle	5.95	16:41	8.43	8.25	32.53	21.68	4.5	7
C2A	20230113	Cloudy	Moderate	Mid-Ebb	Middle	5.95	16:41	8.2	8.29	32.47	21.64	4.7	5
C2A	20230113	Cloudy	Moderate	Mid-Ebb	Bottom	10.9	16:40	8.3	8.23	32.67	21.71	4.9	4
C2A	20230113	Cloudy	Moderate	Mid-Ebb	Bottom	10.9	16:40	8.28	8.29	32.42	21.59	4.6	5

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

Turbidty (NTU) Date Location Weather Sea Condition Tidal Water Level Depth (m) Time DO (mg/L) pН Sal (ppt) Temp (°C) (YYYYMMDD) Note 1 21.55 3.7 CR1 20230113 Cloudy Moderate Mid-Ebb Surface 1 16:25 9.58 8.14 33.29 CR1 20230113 Moderate Mid-Ebb Surface 16:25 9.45 8.15 33.33 21.58 3.8 Cloudy 1 20230113 3.4 CR1 Cloudy Moderate Mid-Ebb Middle 6.5 16:24 9.59 8.18 33.17 21.68 20230113 33.28 21.65 4.0 CR1 Cloudy Moderate Mid-Ebb Middle 6.5 16:24 9.46 8.19 CR1 20230113 Moderate Mid-Ebb 12 8.18 21.68 4.0 Cloudy Bottom 16:23 9.36 33.08 CR1 20230113 Moderate 12 9.5 21.68 3.9 Cloudy Mid-Ebb Bottom 16:23 8.18 33.16 3.9 CR2 20230113 Cloudy Moderate Mid-Ebb Surface 1 16:11 9.02 8.25 32.59 21.44 CR2 1 3.9 20230113 Moderate Mid-Ebb 9.05 8.24 32.67 21.42 Cloudy Surface 16:11 CR2 20230113 Cloudy Moderate Mid-Ebb Middle 6.1 16:10 9 8.25 32.74 21.5 4.3 CR2 4.3 20230113 Cloudy Moderate Mid-Ebb Middle 6.1 16:10 8.85 8.23 32.57 21.44 CR2 11.2 3.9 20230113 Moderate Mid-Ebb 16:09 9.09 8.28 32.67 21.5 Cloudy Bottom CR2 20230113 Moderate 11.2 4.0 Mid-Ebb 16:09 8.87 8.25 32.57 21.52 Cloudy Bottom 3.5 F1A 20230113 Cloudy Moderate Mid-Ebb Surface 1 15:30 9.01 8.22 33.4 21.63 20230113 Mid-Ebb 1 8.23 21.58 3.9 F1A Moderate Surface 15:30 9.24 33.42 Cloudy 3.9 F1A 20230113 Cloudy Moderate Mid-Ebb Middle 4.55 15:29 9.11 8.2 33.23 21.49 3.9 F1A 20230113 Cloudy Moderate Mid-Ebb Middle 4.55 15:29 9.12 8.24 33.36 21.64 F1A 20230113 Cloudy Moderate Mid-Ebb Bottom 8.1 15:28 9.22 8.24 33.28 21.62 4.8 20230113 8.1 9.09 21.55 4.7 F1A Moderate Mid-Ebb 15:28 8.2 33.35 Cloudy Bottom 21.51 H1 20230113 Cloudy Moderate Mid-Ebb Surface 1 15:58 9.32 8.24 33.02 3.6 H1 20230113 1 9.34 21.46 4.3 Moderate Mid-Ebb Surface 15:58 8.27 32.88 Cloudy 4.3 H1 20230113 Moderate 3.95 9.28 8.29 21.5 Cloudy Mid-Ebb Middle 15:57 32.84 H1 20230113 Cloudy Moderate Mid-Ebb Middle 3.95 15:57 9.39 8.3 32.97 21.43 4.0 H1 20230113 Cloudy Moderate Mid-Ebb Bottom 6.9 15:56 9.28 8.26 32.99 21.34 4.4 21.53 4.2 H1 20230113 Moderate Mid-Ebb 6.9 15:56 9.3 8.29 33.05 Cloudy Bottom 4.3 20230113 21.72 M1 Cloudy Moderate Mid-Ebb Surface 1 15:52 8.23 8.29 32.43 21.7 4.2 M1 20230113 Moderate Mid-Ebb Surface 1 15:52 8.27 8.29 32.34 Cloudy M1 20230113 Moderate Mid-Ebb Middle 4.95 15:51 8.27 8.26 32.3 21.74 4.4 Cloudy M1 20230113 Cloudy Moderate Mid-Ebb Middle 4.95 15:51 8.31 8.3 32.22 21.71 4.4 20230113 Moderate 8.9 8.29 21.69 4.9 M1 Cloudy Mid-Ebb Bottom 15:50 8.33 32.45 20230113 Moderate Mid-Ebb 8.9 15:50 8.29 8.28 32.42 21.71 4.7 M1 Cloudy Bottom 20230116 12:57 32.75 20.31 3.3 B1 Cloudy Moderate Mid-Flood Surface 1 8.46 8.19 B1 1 20.44 3.0 20230116 Cloudy Moderate Mid-Flood Surface 12:57 8.48 8.21 32.88 4.1 B1 20230116 Moderate Mid-Flood 3.4 12:56 8.39 8.21 32.83 20.41 Cloudy Bottom B1 3.4 3.9 20230116 Cloudy Moderate Mid-Flood Bottom 12:56 8.44 8.2 32.85 20.38 B2 20230116 3.7 Moderate Mid-Flood 1 13:14 8.38 8.17 32.01 20.12 Cloudy Surface B2 3.9 20230116 1 20.19 Cloudy Moderate Mid-Flood Surface 13:14 8.34 8.18 32.09

B2

20230116

Cloudy

Moderate

Mid-Flood

Bottom

SS (mg/L)

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4.4

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Turbidty (NTU) Date Location Weather Sea Condition Tidal Water Level Depth (m) Time DO (mg/L) pН Sal (ppt) SS (mg/L) Temp (°C) (YYYYMMDD) Note 1 3.9 4.0 B2 20230116 Cloudy Moderate Mid-Flood Bottom 13:13 8.37 8.21 32.01 20.21 3 3 B3 20230116 Moderate Mid-Flood Surface 13:21 9.08 8.17 32.9 20.39 5.1 Cloudy 1 4.9 2 B3 20230116 Cloudy Moderate Mid-Flood Surface 1 13:21 9.19 8.21 32.76 20.56 20230116 4.3 13:20 3 B3 Cloudy Moderate Mid-Flood Bottom 9.08 8.17 32.74 20.34 5.1 B3 5.3 3 20230116 Moderate Mid-Flood 4.3 8.2 20.51 Cloudy Bottom 13:20 9.08 32.93 Β4 20230116 Moderate 8.19 20.62 4.3 2 Cloudy Mid-Flood Surface 1 13:10 8.79 32.8 4.2 B4 20230116 Cloudy Moderate Mid-Flood Surface 1 13:10 8.96 8.2 32.84 20.52 4 B4 3.8 20.58 5.3 2 20230116 Moderate Mid-Flood 8.82 8.21 32.65 Cloudy Bottom 13:09 2 B4 20230116 Cloudy Moderate Mid-Flood Bottom 3.8 13:09 8.81 8.19 32.75 20.47 4.5 C1A 20230116 Cloudy Moderate Mid-Flood Surface 1 12:31 8.34 8.19 33.13 20.19 4.9 4 4.8 2 C1A 20230116 Moderate Mid-Flood Surface 1 12:31 8.23 8.22 33.16 20.04 Cloudy 3 Moderate 5.3 5.3 C1A 20230116 Mid-Flood Middle 12:30 8.32 8.16 32.95 20.16 Cloudy 5.2 2 C1A 20230116 Cloudy Moderate Mid-Flood Middle 5.3 12:30 8.38 8.16 33.15 20.11 20230116 9.6 12:29 8.29 33.1 20.23 5.7 3 C1A Moderate Mid-Flood 8.18 Cloudy Bottom 5.8 4 C1A 20230116 Cloudy Moderate Mid-Flood Bottom 9.6 12:29 8.37 8.21 32.97 20.04 5.8 C2A 20230116 Cloudy Moderate Mid-Flood Surface 1 11:39 9.01 8.11 32.51 20.42 4 5.9 C2A 20230116 Cloudy Moderate Mid-Flood Surface 1 11:39 8.99 8.14 32.55 20.38 4 C2A 6 20.26 6.3 5 20230116 Moderate Mid-Flood Middle 11:38 8.98 8.12 32.46 Cloudy 6.2 3 C2A 20230116 Cloudy Moderate Mid-Flood Middle 6 11:38 9.1 8.13 32.41 20.37 20.3 4 C2A 20230116 Moderate Mid-Flood 11 11:37 9.1 8.06 32.51 7.1 Cloudy Bottom C2A 20230116 Moderate 11 8.94 8.09 20.26 6.6 2 Cloudy Mid-Flood 11:37 32.57 Bottom 4.2 3 CR1 20230116 Cloudy Moderate Mid-Flood Surface 1 12:00 8.51 8.18 32.12 20.48 4 CR1 20230116 Cloudy Moderate Mid-Flood Surface 1 12:00 8.56 8.2 32.05 20.62 4.5 4.5 3 CR1 20230116 Moderate Mid-Flood Middle 6.1 11:59 8.47 8.18 31.99 20.64 Cloudy CR1 20230116 4.6 Cloudy Moderate Mid-Flood Middle 6.1 11:59 8.63 8.19 32.06 20.62 4 CR1 20.5 3 20230116 Moderate Mid-Flood 11.2 11:58 8.5 8.17 32.2 4.6 Cloudy Bottom 3 4.5 CR1 20230116 Cloudy Moderate Mid-Flood 11.2 11:58 8.54 8.21 32.19 20.6 Bottom 5.6 3 CR2 20230116 Cloudy Moderate Mid-Flood Surface 1 12:15 8.31 8.18 32.23 20.44 CR2 Moderate 1 8.4 8.2 20.43 5.3 3 20230116 Cloudy Mid-Flood Surface 12:15 32.39 2 5.8 CR2 20230116 Moderate Mid-Flood 5.95 8.33 8.14 32.3 20.44 Cloudy Middle 12:14 20230116 5.95 20.52 5.4 3 CR2 Cloudy Moderate Mid-Flood Middle 12:14 8.41 8.14 32.3 CR2 20.39 6.0 3 20230116 Cloudy Moderate Mid-Flood Bottom 10.9 12:13 8.38 8.12 32.22 5.5 3 CR2 20230116 Moderate Mid-Flood 10.9 12:13 8.39 8.16 32.38 20.41 Cloudy Bottom 20.5 3 F1A 20230116 Cloudy Moderate Mid-Flood Surface 1 12:30 9.01 8.19 32.95 4.1 F1A 20230116 20.32 4.4 2 Moderate Mid-Flood Surface 1 12:30 9.02 8.19 33.13 Cloudy 3 F1A 3.8 8.99 20.3 4.4 20230116 Cloudy Moderate Mid-Flood Middle 12:29 8.19 33.12 3.8 12:29 9 33.01 20.37 4 F1A 20230116 Cloudy Moderate Mid-Flood Middle 8.18 4.4

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	20230116	Cloudy	Moderate	Mid-Flood	Bottom	6.6	12:28	9.09	8.19	32.98	20.48	5.0	3
F1A	20230116	Cloudy	Moderate	Mid-Flood	Bottom	6.6	12:28	9.16	8.19	33.03	20.46	4.8	4
H1	20230116	Cloudy	Moderate	Mid-Flood	Surface	1	13:40	8.89	8.07	33.31	20.69	4.1	3
H1	20230116	Cloudy	Moderate	Mid-Flood	Surface	1	13:40	8.92	8.07	33.46	20.58	4.4	2
H1	20230116	Cloudy	Moderate	Mid-Flood	Middle	3.8	13:39	8.97	8.07	33.39	20.52	4.3	3
H1	20230116	Cloudy	Moderate	Mid-Flood	Middle	3.8	13:39	8.89	8.11	33.42	20.63	4.1	2
H1	20230116	Cloudy	Moderate	Mid-Flood	Bottom	6.6	13:38	8.89	8.08	33.24	20.58	4.8	3
H1	20230116	Cloudy	Moderate	Mid-Flood	Bottom	6.6	13:38	8.95	8.12	33.32	20.5	4.4	4
M1	20230116	Cloudy	Moderate	Mid-Flood	Surface	1	12:05	9.32	8.17	32.78	20.47	3.9	4
M1	20230116	Cloudy	Moderate	Mid-Flood	Surface	1	12:05	9.26	8.22	32.68	20.48	3.8	2
M1	20230116	Cloudy	Moderate	Mid-Flood	Middle	4.15	12:04	9.26	8.16	32.7	20.5	4.1	4
M1	20230116	Cloudy	Moderate	Mid-Flood	Middle	4.15	12:04	9.27	8.16	32.8	20.39	4.0	2
M1	20230116	Cloudy	Moderate	Mid-Flood	Bottom	7.3	12:03	9.32	8.17	32.62	20.4	4.2	4
M1	20230116	Cloudy	Moderate	Mid-Flood	Bottom	7.3	12:03	9.23	8.19	32.67	20.57	4.4	4
B1	20230116	Cloudy	Moderate	Mid-Ebb	Surface	1	17:21	8.26	8.17	33.42	20.34	3.2	2
B1	20230116	Cloudy	Moderate	Mid-Ebb	Surface	1	17:21	8.33	8.12	33.42	20.27	3.0	3
B1	20230116	Cloudy	Moderate	Mid-Ebb	Bottom	3.8	17:20	8.4	8.18	33.54	20.37	3.5	4
B1	20230116	Cloudy	Moderate	Mid-Ebb	Bottom	3.8	17:20	8.37	8.15	33.51	20.27	3.4	4
B2	20230116	Cloudy	Moderate	Mid-Ebb	Surface	1	17:34	8.87	8.24	32.69	20.65	3.5	5
B2	20230116	Cloudy	Moderate	Mid-Ebb	Surface	1	17:34	8.88	8.26	32.57	20.63	3.7	3
B2	20230116	Cloudy	Moderate	Mid-Ebb	Bottom	4	17:33	8.81	8.2	32.49	20.74	3.1	3
B2	20230116	Cloudy	Moderate	Mid-Ebb	Bottom	4	17:33	8.8	8.24	32.69	20.66	3.7	3
B3	20230116	Cloudy	Moderate	Mid-Ebb	Surface	1	16:56	9.37	8.12	32.78	20.7	4.3	4
B3	20230116	Cloudy	Moderate	Mid-Ebb	Surface	1	16:56	9.4	8.2	32.91	20.7	4.5	4
B3	20230116	Cloudy	Moderate	Mid-Ebb	Bottom	3.9	16:55	9.45	8.13	33.02	20.77	4.7	3
B3	20230116	Cloudy	Moderate	Mid-Ebb	Bottom	3.9	16:55	9.36	8.14	32.84	20.78	4.5	4
B4	20230116	Cloudy	Moderate	Mid-Ebb	Surface	1	17:06	8.4	8.15	32.91	20.3	5.0	4
B4	20230116	Cloudy	Moderate	Mid-Ebb	Surface	1	17:06	8.31	8.18	32.92	20.27	5.0	3
B4	20230116	Cloudy	Moderate	Mid-Ebb	Bottom	3.5	17:05	8.37	8.11	33.02	20.41	5.4	3
B4	20230116	Cloudy	Moderate	Mid-Ebb	Bottom	3.5	17:05	8.4	8.14	32.84	20.26	5.2	3
C1A	20230116	Cloudy	Moderate	Mid-Ebb	Surface	1	16:57	8.89	8.28	33.3	20.36	6.9	5
C1A	20230116	Cloudy	Moderate	Mid-Ebb	Surface	1	16:57	8.83	8.3	33.19	20.44	6.8	4
C1A	20230116	Cloudy	Moderate	Mid-Ebb	Middle	4.8	16:56	8.85	8.22	33.12	20.38	6.9	3
C1A	20230116	Cloudy	Moderate	Mid-Ebb	Middle	4.8	16:56	8.91	8.26	33.24	20.48	7.0	3
C1A	20230116	Cloudy	Moderate	Mid-Ebb	Bottom	8.6	16:55	8.79	8.24	33.23	20.39	7.7	2
C1A	20230116	Cloudy	Moderate	Mid-Ebb	Bottom	8.6	16:55	8.91	8.29	33.27	20.41	7.4	3
C2A	20230116	Cloudy	Moderate	Mid-Ebb	Surface	1	18:46	8.37	8.14	33	20.43	6.2	4

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

Turbidty (NTU) Date Location Weather Sea Condition Tidal Water Level Depth (m) Time DO (mg/L) pН Sal (ppt) SS (mg/L) Temp (°C) (YYYYMMDD) Note 1 6.1 C2A 20230116 Cloudy Moderate Mid-Ebb Surface 1 18:46 8.25 8.13 33.01 20.41 C2A 20230116 Moderate Mid-Ebb Middle 5.85 18:45 8.25 8.13 33.02 20.37 6.4 Cloudy C2A 20230116 Cloudy Moderate Mid-Ebb Middle 5.85 18:45 8.38 8.18 32.8 20.43 6.6 20230116 C2A Cloudy Moderate Mid-Ebb Bottom 10.7 18:44 8.29 8.15 32.88 20.3 6.9 6.6 C2A 20230116 Moderate Mid-Ebb 10.7 8.19 20.34 Cloudy Bottom 18:44 8.26 32.89 CR1 20230116 Moderate 20.56 5.0 Cloudy Mid-Ebb Surface 1 18:26 9.06 8.17 32.59 5.2 CR1 20230116 Cloudy Moderate Mid-Ebb Surface 1 18:26 9 8.2 32.57 20.55 CR1 6.55 5.1 20230116 Moderate Mid-Ebb 18:25 9.03 8.19 32.67 20.58 Cloudy Middle 5.2 CR1 20230116 Cloudy Moderate Mid-Ebb Middle 6.55 18:25 8.91 8.18 32.57 20.53 5.3 CR1 20230116 Cloudy Moderate Mid-Ebb Bottom 12.1 18:24 8.99 8.15 32.65 20.63 12.1 5.1 CR1 20230116 Moderate Mid-Ebb 18:24 8.96 8.18 32.78 20.6 Cloudy Bottom 5.4 CR2 Moderate 20230116 Mid-Ebb Surface 18:13 9.3 8.26 33.46 20.76 Cloudy 1 CR2 20230116 Cloudy Moderate Mid-Ebb Surface 1 18:13 9.19 8.3 33.27 20.67 6.0 CR2 20230116 Mid-Ebb 6.15 9.28 8.22 20.62 6.4 Moderate Middle 18:12 33.27 Cloudy 5.8 CR2 20230116 Cloudy Moderate Mid-Ebb Middle 6.15 18:12 9.25 8.28 33.3 20.64 CR2 6.4 20230116 Cloudy Moderate Mid-Ebb Bottom 11.3 18:11 9.13 8.27 33.43 20.71 6.2 CR2 20230116 Cloudy Moderate Mid-Ebb Bottom 11.3 18:11 9.22 8.28 33.36 20.75 Moderate 8.39 20.77 4.3 F1A 20230116 Mid-Ebb Surface 1 17:30 8.12 32.52 Cloudy F1A 20230116 Cloudy Moderate Mid-Ebb Surface 1 17:30 8.26 8.13 32.55 20.63 4.4 3.95 20.73 4.9 F1A 20230116 Moderate Mid-Ebb Middle 17:29 8.35 8.16 32.46 Cloudy 5.4 20230116 Moderate 3.95 8.39 20.76 F1A Cloudy Mid-Ebb Middle 17:29 8.17 32.72 20.7 5.1 F1A 20230116 Cloudy Moderate Mid-Ebb Bottom 6.9 17:28 8.34 8.15 32.75 F1A 20230116 Cloudy Moderate Mid-Ebb Bottom 6.9 17:28 8.27 8.16 32.63 20.67 5.4 H1 20230116 Moderate Mid-Ebb Surface 1 18:00 8.26 8.23 32.13 20.34 4.6 Cloudy 20230116 4.6 H1 Cloudy Moderate Mid-Ebb Surface 1 18:00 8.36 8.23 32.17 20.34 H1 Moderate 20.22 4.9 20230116 Mid-Ebb Middle 4.35 17:59 8.24 8.28 32.19 Cloudy H1 20230116 Cloudy Moderate Mid-Ebb Middle 4.35 17:59 8.27 8.3 32.25 20.36 5.1 5.8 H1 20230116 Cloudy Moderate Mid-Ebb Bottom 7.7 17:58 8.25 8.22 32.26 20.21 H1 Moderate 7.7 8.38 8.27 32.3 20.27 5.5 20230116 Cloudy Mid-Ebb Bottom 17:58 4.3 20230116 Moderate Mid-Ebb 1 17:52 9.42 8.27 33.13 20.71 M1 Cloudy Surface 20230116 17:52 M1 Cloudy Moderate Mid-Ebb Surface 1 9.47 8.27 33.12 20.67 4.4 20.76 4.8 M1 20230116 Cloudy Moderate Mid-Ebb Middle 4.7 17:51 9.51 8.24 33.27 M1 20230116 Moderate Mid-Ebb Middle 4.7 17:51 9.43 8.23 33.01 20.79 4.4 Cloudy 4.7 M1 20230116 Cloudy Moderate Mid-Ebb Bottom 8.4 17:50 9.56 8.26 33.19 20.66 M1 20230116 8.4 4.7 Moderate Mid-Ebb 17:50 9.5 8.28 33.28 20.66 Cloudy Bottom B1 20230118 Mid-Ebb 09:42 8.95 8.1 21.89 4.4 Cloudy Moderate Surface 1 32.11 B1 20230118 1 8.15 21.96 Cloudy Moderate Mid-Ebb Surface 09:42 8.94 31.98 4.4

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

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Turbidty (NTU) Date Location Weather Sea Condition Tidal Water Level Depth (m) Time DO (mg/L) pН SS (mg/L) Sal (ppt) Temp (°C) (YYYYMMDD) Note 1 3.9 21.93 B1 20230118 Cloudy Moderate Mid-Ebb Bottom 09:41 8.93 8.11 32 4.9 7 3.9 B1 20230118 Moderate Mid-Ebb 09:41 9.01 8.11 31.97 21.86 4.3 4 Cloudy Bottom 3.4 B2 20230118 Cloudy Moderate Mid-Ebb Surface 1 09:57 8.83 8.23 32.64 21.91 6 20230118 21.98 B2 Cloudy Moderate Mid-Ebb Surface 1 09:57 8.94 8.27 32.67 3.7 5 B2 3.8 5 20230118 Moderate Mid-Ebb 4.8 8.26 21.92 Cloudy Bottom 09:56 8.94 32.77 B2 20230118 8.29 21.87 4.1 6 Cloudy Moderate Mid-Ebb Bottom 4.8 09:56 8.8 32.68 B3 3.8 5 20230118 Cloudy Moderate Mid-Ebb Surface 1 10:24 8.17 8.24 32.08 21.89 B3 1 8.25 3.9 5 20230118 Moderate Mid-Ebb 10:24 8.24 32.32 21.89 Cloudy Surface 5 B3 20230118 Cloudy Moderate Mid-Ebb Bottom 4.4 10:23 8.19 8.29 32.15 21.86 4.3 7 21.85 4.5 B3 20230118 Cloudy Moderate Mid-Ebb Bottom 4.4 10:23 8.3 8.25 32.15 3.4 5 B4 20230118 Moderate Mid-Ebb Surface 1 10:14 8.22 8.21 31.86 22.04 Cloudy 7 Β4 20230118 Moderate 21.98 3.4 Mid-Ebb Surface 1 10:14 8.21 8.23 32.13 Cloudy 4.5 5 B4 20230118 Cloudy Moderate Mid-Ebb Bottom 3.6 10:13 8.2 8.25 31.93 21.95 B4 20230118 Mid-Ebb 8.27 8.28 21.93 4.0 7 Moderate 3.6 10:13 32.04 Cloudy Bottom 4.9 5 C1A 20230118 Cloudy Moderate Mid-Ebb Surface 1 09:17 8.68 8.3 33.53 21.89 8.23 21.79 6 C1A 20230118 Cloudy Moderate Mid-Ebb Surface 1 09:17 8.79 33.37 4.9 5.2 C1A 20230118 Cloudy Moderate Mid-Ebb Middle 5.1 09:16 8.83 8.23 33.4 21.82 4 5.1 21.85 5.1 5 C1A 20230118 Moderate Mid-Ebb Middle 09:16 8.81 8.27 33.59 Cloudy 5.4 5 C1A 20230118 Cloudy Moderate Mid-Ebb Bottom 9.2 09:15 8.68 8.25 33.54 21.92 9.2 21.92 5.4 4 C1A 20230118 Moderate Mid-Ebb 09:15 8.81 8.28 33.44 Cloudy Bottom 3.5 C2A 20230118 Moderate 9.32 8.19 22.08 3 Cloudy Mid-Ebb Surface 1 10:37 33.55 3.6 5 C2A 20230118 Cloudy Moderate Mid-Ebb Surface 1 10:37 9.17 8.22 33.43 22.11 5 C2A 20230118 Cloudy Moderate Mid-Ebb Middle 6.05 10:36 9.3 8.2 33.44 22.21 3.8 3 9.27 8.22 22.2 3.9 C2A 20230118 Moderate Mid-Ebb Middle 6.05 10:36 33.5 Cloudy 4.2 3 8.2 C2A 20230118 Cloudy Moderate Mid-Ebb Bottom 11.1 10:35 9.27 33.64 22.18 8.25 22.17 4.3 5 C2A 20230118 Moderate Mid-Ebb 11.1 10:35 9.17 33.5 Cloudy Bottom 3.7 CR1 20230118 Moderate Mid-Ebb Surface 1 10:48 8.17 8.28 32.63 21.69 4 Cloudy 3.4 CR1 20230118 Cloudy Moderate Mid-Ebb Surface 1 10:48 8.2 8.28 32.71 21.71 4 CR1 Moderate 8.27 21.77 4.4 4 20230118 Cloudy Mid-Ebb Middle 6.45 10:47 8.24 32.82 5 CR1 20230118 Moderate Mid-Ebb 6.45 8.21 8.25 32.76 21.82 4.1 Cloudy Middle 10:47 20230118 21.75 5 CR1 Cloudy Moderate Mid-Ebb Bottom 11.9 10:46 8.27 8.3 32.82 4.4 21.74 4.4 3 CR1 20230118 Cloudy Moderate Mid-Ebb Bottom 11.9 10:46 8.22 8.25 32.6 3.5 5 CR2 20230118 Moderate Mid-Ebb Surface 10:35 8.19 8.26 32.94 21.95 Cloudy 1 CR2 21.99 3.6 4 20230118 Cloudy Moderate Mid-Ebb Surface 1 10:35 8.18 8.23 32.8 CR2 20230118 5.4 8.23 21.99 3.9 3 Moderate Mid-Ebb Middle 10:34 8.26 32.95 Cloudy CR2 20230118 Mid-Ebb 5.4 8.24 8.29 22.01 4.1 4 Cloudy Moderate Middle 10:34 32.87 CR2 20230118 9.8 10:33 8.27 32.97 21.98 4.5 4 Cloudy Moderate Mid-Ebb Bottom 8.15

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	20230118	Cloudy	Moderate	Mid-Ebb	Bottom	9.8	10:33	8.23	8.3	32.76	21.96	4.4	3
F1A	20230118	Cloudy	Moderate	Mid-Ebb	Surface	1	09:51	8.57	8.24	32.35	21.89	3.3	5
F1A	20230118	Cloudy	Moderate	Mid-Ebb	Surface	1	09:51	8.49	8.29	32.37	21.89	3.9	3
F1A	20230118	Cloudy	Moderate	Mid-Ebb	Middle	4.45	09:50	8.58	8.23	32.49	21.83	4.2	3
F1A	20230118	Cloudy	Moderate	Mid-Ebb	Middle	4.45	09:50	8.46	8.24	32.48	21.78	3.6	4
F1A	20230118	Cloudy	Moderate	Mid-Ebb	Bottom	7.9	09:49	8.47	8.29	32.27	21.84	3.8	3
F1A	20230118	Cloudy	Moderate	Mid-Ebb	Bottom	7.9	09:49	8.6	8.29	32.48	21.79	3.5	4
H1	20230118	Cloudy	Moderate	Mid-Ebb	Surface	1	10:23	9.09	8.18	32.95	21.92	3.4	5
H1	20230118	Cloudy	Moderate	Mid-Ebb	Surface	1	10:23	9.14	8.21	32.98	21.91	3.4	5
H1	20230118	Cloudy	Moderate	Mid-Ebb	Middle	4.3	10:22	9.12	8.19	33.14	21.96	3.8	4
H1	20230118	Cloudy	Moderate	Mid-Ebb	Middle	4.3	10:22	9	8.21	33.02	21.94	4.3	5
H1	20230118	Cloudy	Moderate	Mid-Ebb	Bottom	7.6	10:21	9	8.15	32.93	21.88	4.0	5
H1	20230118	Cloudy	Moderate	Mid-Ebb	Bottom	7.6	10:21	9.11	8.23	32.88	21.9	4.0	3
M1	20230118	Cloudy	Moderate	Mid-Ebb	Surface	1	09:25	8.28	8.24	32.73	21.74	3.5	3
M1	20230118	Cloudy	Moderate	Mid-Ebb	Surface	1	09:25	8.18	8.24	32.89	21.73	3.3	6
M1	20230118	Cloudy	Moderate	Mid-Ebb	Middle	4.6	09:24	8.14	8.24	32.76	21.8	3.4	5
M1	20230118	Cloudy	Moderate	Mid-Ebb	Middle	4.6	09:24	8.22	8.27	33.01	21.71	4.0	7
M1	20230118	Cloudy	Moderate	Mid-Ebb	Bottom	8.2	09:23	8.27	8.27	32.82	21.77	4.2	7
M1	20230118	Cloudy	Moderate	Mid-Ebb	Bottom	8.2	09:23	8.18	8.28	32.75	21.78	3.7	5
B1	20230118	Cloudy	Moderate	Mid-Flood	Surface	1	12:59	8.78	8.18	32.92	22.01	4.5	6
B1	20230118	Cloudy	Moderate	Mid-Flood	Surface	1	12:59	8.88	8.14	33.11	21.99	4.3	6
B1	20230118	Cloudy	Moderate	Mid-Flood	Bottom	3.4	12:58	8.81	8.2	32.98	21.95	4.1	5
B1	20230118	Cloudy	Moderate	Mid-Flood	Bottom	3.4	12:58	8.84	8.14	33.03	21.91	4.9	6
B2	20230118	Cloudy	Moderate	Mid-Flood	Surface	1	13:14	8.34	8.18	32.17	22.26	3.9	5
B2	20230118	Cloudy	Moderate	Mid-Flood	Surface	1	13:14	8.48	8.19	32.29	22.23	4.2	4
B2	20230118	Cloudy	Moderate	Mid-Flood	Bottom	3.4	13:13	8.49	8.18	32.1	22.22	4.5	6
B2	20230118	Cloudy	Moderate	Mid-Flood	Bottom	3.4	13:13	8.51	8.24	32.12	22.25	3.9	6
B3	20230118	Cloudy	Moderate	Mid-Flood	Surface	1	12:48	9.38	8.18	31.89	21.93	3.0	5
B3	20230118	Cloudy	Moderate	Mid-Flood	Surface	1	12:48	9.48	8.15	32.02	21.93	3.4	5
B3	20230118	Cloudy	Moderate	Mid-Flood	Bottom	3.8	12:47	9.51	8.2	32.06	21.94	4.0	4
B3	20230118	Cloudy	Moderate	Mid-Flood	Bottom	3.8	12:47	9.37	8.15	32	22.06	3.4	5
B4	20230118	Cloudy	Moderate	Mid-Flood	Surface	1	12:58	9.41	8.26	32.27	22.18	3.2	5
B4	20230118	Cloudy	Moderate	Mid-Flood	Surface	1	12:58	9.46	8.26	32.34	22.3	3.1	4
B4	20230118	Cloudy	Moderate	Mid-Flood	Bottom	4.3	12:57	9.34	8.2	32.26	22.26	3.7	4
B4	20230118	Cloudy	Moderate	Mid-Flood	Bottom	4.3	12:57	9.34	8.19	32.27	22.24	3.9	4
C1A	20230118	Cloudy	Moderate	Mid-Flood	Surface	1	12:37	9.09	8.19	33.36	21.92	3.9	4
C1A	20230118	Cloudy	Moderate	Mid-Flood	Surface	1	12:37	9.24	8.14	33.58	21.97	3.8	5

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)
C1A	20230118	Cloudy	Moderate	Mid-Flood	Middle	5.25	12:36	9.23	8.18	33.43	21.95	4.0	6
C1A	20230118	Cloudy	Moderate	Mid-Flood	Middle	5.25	12:36	9.2	8.14	33.37	21.86	4.3	6
C1A	20230118	Cloudy	Moderate	Mid-Flood	Bottom	9.5	12:35	9.16	8.16	33.56	21.91	4.3	5
C1A	20230118	Cloudy	Moderate	Mid-Flood	Bottom	9.5	12:35	9.25	8.16	33.33	21.93	3.9	4
C2A	20230118	Cloudy	Moderate	Mid-Flood	Surface	1	12:37	8.53	8.26	33.66	21.96	4.7	8
C2A	20230118	Cloudy	Moderate	Mid-Flood	Surface	1	12:37	8.49	8.29	33.53	21.89	4.7	5
C2A	20230118	Cloudy	Moderate	Mid-Flood	Middle	5.5	12:36	8.48	8.22	33.72	21.91	4.8	5
C2A	20230118	Cloudy	Moderate	Mid-Flood	Middle	5.5	12:36	8.5	8.23	33.47	22	4.8	6
C2A	20230118	Cloudy	Moderate	Mid-Flood	Bottom	10	12:35	8.65	8.23	33.6	22.02	5.3	6
C2A	20230118	Cloudy	Moderate	Mid-Flood	Bottom	10	12:35	8.61	8.25	33.53	22.01	5.0	6
CR1	20230118	Cloudy	Moderate	Mid-Flood	Surface	1	14:04	9.5	8.23	32.56	22.06	3.7	3
CR1	20230118	Cloudy	Moderate	Mid-Flood	Surface	1	14:04	9.5	8.26	32.66	22.18	4.1	6
CR1	20230118	Cloudy	Moderate	Mid-Flood	Middle	6.5	14:03	9.43	8.23	32.69	22.07	3.7	5
CR1	20230118	Cloudy	Moderate	Mid-Flood	Middle	6.5	14:03	9.38	8.27	32.73	22.11	4.3	5
CR1	20230118	Cloudy	Moderate	Mid-Flood	Bottom	12	14:02	9.5	8.19	32.8	22.05	4.2	5
CR1	20230118	Cloudy	Moderate	Mid-Flood	Bottom	12	14:02	9.4	8.22	32.65	22.13	4.2	4
CR2	20230118	Cloudy	Moderate	Mid-Flood	Surface	1	13:51	8.31	8.18	33.11	21.92	3.8	5
CR2	20230118	Cloudy	Moderate	Mid-Flood	Surface	1	13:51	8.33	8.18	33.12	21.93	3.3	5
CR2	20230118	Cloudy	Moderate	Mid-Flood	Middle	5.95	13:50	8.39	8.15	33.27	21.84	3.7	4
CR2	20230118	Cloudy	Moderate	Mid-Flood	Middle	5.95	13:50	8.29	8.19	33.24	21.85	3.3	5
CR2	20230118	Cloudy	Moderate	Mid-Flood	Bottom	10.9	13:49	8.28	8.18	33.15	21.83	3.7	4
CR2	20230118	Cloudy	Moderate	Mid-Flood	Bottom	10.9	13:49	8.33	8.14	33.19	21.97	3.8	5
F1A	20230118	Cloudy	Moderate	Mid-Flood	Surface	1	13:24	9.43	8.16	33.83	22.19	3.3	5
F1A	20230118	Cloudy	Moderate	Mid-Flood	Surface	1	13:24	9.31	8.17	33.6	22.27	2.9	5
F1A	20230118	Cloudy	Moderate	Mid-Flood	Middle	4.25	13:23	9.37	8.17	33.62	22.26	3.8	5
F1A	20230118	Cloudy	Moderate	Mid-Flood	Middle	4.25	13:23	9.47	8.2	33.78	22.23	3.9	4
F1A	20230118	Cloudy	Moderate	Mid-Flood	Bottom	7.5	13:22	9.34	8.13	33.74	22.21	4.4	4
F1A	20230118	Cloudy	Moderate	Mid-Flood	Bottom	7.5	13:22	9.34	8.14	33.73	22.22	4.1	4
H1	20230118	Cloudy	Moderate	Mid-Flood	Surface	1	13:39	9.14	8.15	32.44	21.83	3.4	5
H1	20230118	Cloudy	Moderate	Mid-Flood	Surface	1	13:39	9.27	8.17	32.38	21.75	3.4	4
H1	20230118	Cloudy	Moderate	Mid-Flood	Middle	4.15	13:38	9.32	8.16	32.42	21.75	2.9	4
H1	20230118	Cloudy	Moderate	Mid-Flood	Middle	4.15	13:38	9.18	8.21	32.53	21.84	2.7	4
H1	20230118	Cloudy	Moderate	Mid-Flood	Bottom	7.3	13:37	9.26	8.16	32.56	21.81	4.0	6
H1	20230118	Cloudy	Moderate	Mid-Flood	Bottom	7.3	13:37	9.21	8.18	32.47	21.88	3.8	5
M1	20230118	Cloudy	Moderate	Mid-Flood	Surface	1	13:46	9.2	8.26	32.54	22.02	2.9	5
M1	20230118	Cloudy	Moderate	Mid-Flood	Surface	1	13:46	9.37	8.29	32.37	21.95	2.8	4
M1	20230118	Cloudy	Moderate	Mid-Flood	Middle	4.05	13:45	9.28	8.22	32.53	21.93	3.1	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)
M1	20230118	Cloudy	Moderate	Mid-Flood	Middle	4.05	13:45	9.37	8.27	32.34	22.05	3.0	4
M1	20230118	Cloudy	Moderate	Mid-Flood	Bottom	7.1	13:44	9.23	8.23	32.4	22.02	3.6	7
M1	20230118	Cloudy	Moderate	Mid-Flood	Bottom	7.1	13:44	9.22	8.3	32.46	21.92	3.3	6
B1	20230120	Cloudy	Moderate	Mid-Ebb	Surface	1	12:49	9.38	8.37	33.47	20.06	3.7	3
B1	20230120	Cloudy	Moderate	Mid-Ebb	Surface	1	12:49	9.48	8.31	33.41	20.07	3.5	2
B1	20230120	Cloudy	Moderate	Mid-Ebb	Bottom	3.7	12:48	9.43	8.35	33.34	20.04	3.9	2
B1	20230120	Cloudy	Moderate	Mid-Ebb	Bottom	3.7	12:48	9.39	8.29	33.36	20.06	4.0	2
B2	20230120	Cloudy	Moderate	Mid-Ebb	Surface	1	12:36	8.3	8.34	33.38	19.85	3.7	6
B2	20230120	Cloudy	Moderate	Mid-Ebb	Surface	1	12:36	8.19	8.34	33.39	19.89	3.5	8
B2	20230120	Cloudy	Moderate	Mid-Ebb	Bottom	4.5	12:35	8.21	8.32	33.58	19.88	4.0	3
B2	20230120	Cloudy	Moderate	Mid-Ebb	Bottom	4.5	12:35	8.33	8.33	33.51	19.82	4.2	3
B3	20230120	Cloudy	Moderate	Mid-Ebb	Surface	1	12:24	9.38	8.39	32.82	19.76	5.4	7
B3	20230120	Cloudy	Moderate	Mid-Ebb	Surface	1	12:24	9.2	8.35	32.88	19.76	5.3	6
B3	20230120	Cloudy	Moderate	Mid-Ebb	Bottom	4	12:23	9.33	8.36	32.73	19.84	5.0	2
B3	20230120	Cloudy	Moderate	Mid-Ebb	Bottom	4	12:23	9.37	8.36	32.86	19.8	5.0	2
B4	20230120	Cloudy	Moderate	Mid-Ebb	Surface	1	12:14	8.16	8.34	31.78	19.85	5.9	2
B4	20230120	Cloudy	Moderate	Mid-Ebb	Surface	1	12:14	8.38	8.37	31.93	19.84	6.0	2
B4	20230120	Cloudy	Moderate	Mid-Ebb	Bottom	3.4	12:13	8.43	8.39	31.86	19.88	5.8	2
B4	20230120	Cloudy	Moderate	Mid-Ebb	Bottom	3.4	12:13	8.24	8.34	31.77	19.9	6.4	3
C1A	20230120	Cloudy	Moderate	Mid-Ebb	Surface	1	11:23	9.35	8.33	33.23	20.06	7.6	5
C1A	20230120	Cloudy	Moderate	Mid-Ebb	Surface	1	11:23	9.25	8.35	33.23	20.11	7.8	4
C1A	20230120	Cloudy	Moderate	Mid-Ebb	Middle	5.55	11:22	9.17	8.33	33.24	20.13	7.7	3
C1A	20230120	Cloudy	Moderate	Mid-Ebb	Middle	5.55	11:22	9.29	8.36	33.27	20.13	8.0	2
C1A	20230120	Cloudy	Moderate	Mid-Ebb	Bottom	10.1	11:21	9.4	8.33	33.24	20.12	7.8	4
C1A	20230120	Cloudy	Moderate	Mid-Ebb	Bottom	10.1	11:21	9.25	8.34	33.36	20.17	8.3	4
C2A	20230120	Cloudy	Moderate	Mid-Ebb	Surface	1	12:02	8.94	8.29	32.37	20.14	6.3	2
C2A	20230120	Cloudy	Moderate	Mid-Ebb	Surface	1	12:02	9.04	8.21	32.48	20.09	6.3	3
C2A	20230120	Cloudy	Moderate	Mid-Ebb	Middle	6.15	12:01	9.06	8.31	32.59	20.15	6.8	3
C2A	20230120	Cloudy	Moderate	Mid-Ebb	Middle	6.15	12:01	8.96	8.25	32.4	20.14	6.4	2
C2A	20230120	Cloudy	Moderate	Mid-Ebb	Bottom	11.3	12:00	9.08	8.33	32.44	20.14	6.7	3
C2A	20230120	Cloudy	Moderate	Mid-Ebb	Bottom	11.3	12:00	9.05	8.33	32.39	20.13	6.9	2
CR1	20230120	Cloudy	Moderate	Mid-Ebb	Surface	1	11:50	9.22	8.24	33.54	19.85	6.0	3
CR1	20230120	Cloudy	Moderate	Mid-Ebb	Surface	1	11:50	9.06	8.27	33.54	19.96	6.6	5
CR1	20230120	Cloudy	Moderate	Mid-Ebb	Middle	6.45	11:49	9.32	8.26	33.54	19.9	6.2	5
CR1	20230120	Cloudy	Moderate	Mid-Ebb	Middle	6.45	11:49	9.09	8.2	33.47	19.96	7.0	3
CR1	20230120	Cloudy	Moderate	Mid-Ebb	Bottom	11.9	11:48	9.19	8.24	33.66	19.85	6.8	3
CR1	20230120	Cloudy	Moderate	Mid-Ebb	Bottom	11.9	11:48	9.11	8.22	33.56	19.89	7.2	4

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

Turbidty (NTU) Date Location Weather Sea Condition Tidal Water Level Depth (m) Time DO (mg/L) pН Sal (ppt) SS (mg/L) Temp (°C) (YYYYMMDD) Note 1 CR2 20230120 Cloudy Moderate Mid-Ebb Surface 1 11:39 8.52 8.26 32.13 19.88 4.7 3 CR2 2 20230120 Moderate Mid-Ebb Surface 1 11:39 8.62 8.24 32.06 19.87 4.9 Cloudy 3 CR2 20230120 Cloudy Moderate Mid-Ebb Middle 5.45 11:38 8.43 8.29 32.16 19.79 4.7 CR2 20230120 5.2 2 Cloudy Moderate Mid-Ebb Middle 5.45 11:38 8.68 8.33 32.24 19.82 CR2 5.9 2 20230120 Moderate Mid-Ebb 9.9 11:37 8.3 19.81 Cloudy Bottom 8.43 32.25 CR2 20230120 Moderate 9.9 8.22 19.77 5.2 2 Cloudy Mid-Ebb Bottom 11:37 8.52 32.11 F1A 20230120 Cloudy Moderate Mid-Ebb Surface 1 11:50 9.17 8.36 31.96 19.81 6.4 4 1 19.77 7.0 2 F1A 20230120 Moderate Mid-Ebb 9.07 8.35 31.83 Cloudy Surface 11:50 6 F1A 20230120 Cloudy Moderate Mid-Ebb Middle 4.2 11:49 9.14 8.36 31.98 19.82 6.4 8 F1A 20230120 Cloudy Moderate Mid-Ebb Middle 4.2 11:49 9.17 8.34 31.95 19.71 6.4 19.7 6.7 5 F1A 20230120 Moderate Mid-Ebb 7.4 11:48 9.27 8.36 31.89 Cloudy Bottom 3 20230120 Moderate 19.81 6.8 F1A Mid-Ebb 7.4 11:48 9.24 8.28 31.83 Cloudy Bottom 4.3 7 H1 20230120 Cloudy Moderate Mid-Ebb Surface 1 11:32 9.19 8.25 32.3 20.06 H1 20230120 Mid-Ebb 1 9.27 8.25 32.2 20.06 4.7 7 Moderate Surface 11:32 Cloudy 4.4 12 H1 20230120 Cloudy Moderate Mid-Ebb Middle 3.95 11:31 9.18 8.2 32.36 20.01 5.2 10 H1 20230120 Cloudy Moderate Mid-Ebb Middle 3.95 11:31 9.32 8.24 32.42 20.02 5.0 7 H1 20230120 Cloudy Moderate Mid-Ebb Bottom 6.9 11:30 9.2 8.28 32.24 20.07 20230120 6.9 9.19 20.02 5.3 4 H1 Moderate Mid-Ebb 11:30 8.21 32.34 Cloudy Bottom 5.0 3 M1 20230120 Cloudy Moderate Mid-Ebb Surface 1 11:25 9.64 8.35 32.21 19.93 8.34 20.04 5.1 2 M1 20230120 Moderate Mid-Ebb Surface 1 11:25 9.59 32.17 Cloudy 5.0 5 20230120 Moderate 4.6 8.35 32.3 19.94 M1 Cloudy Mid-Ebb Middle 11:24 9.63 5.3 3 M1 20230120 Cloudy Moderate Mid-Ebb Middle 4.6 11:24 9.55 8.36 32.2 20.01 5.2 5 M1 20230120 Cloudy Moderate Mid-Ebb Bottom 8.2 11:23 9.39 8.34 32.22 19.94 20 5.8 8 M1 20230120 Moderate Mid-Ebb 8.2 11:23 9.5 8.28 32.12 Cloudy Bottom 3 5.0 B1 20230120 Cloudy Moderate Mid-Flood Surface 1 14:41 9.45 8.24 32.01 20.19 B1 Moderate 4.9 5 20230120 Mid-Flood Surface 1 14:41 9.44 8.28 32.15 20.16 Cloudy 3 4.2 B1 20230120 Cloudy Moderate Mid-Flood 14:40 9.57 8.31 32.06 20.16 5.4 Bottom 5.2 3 B1 20230120 Cloudy Moderate Mid-Flood Bottom 4.2 14:40 9.35 8.25 32.19 20.18 B2 20230120 Moderate 20.14 4.2 2 Cloudy Mid-Flood Surface 1 14:55 9.28 8.28 33.31 5.0 2 B2 20230120 Moderate Mid-Flood 1 9.15 8.29 33.29 20.13 Cloudy Surface 14:55 20230120 4.9 6 B2 Cloudy Moderate Mid-Flood Bottom 4.1 14:54 9.18 8.3 33.24 20.11 B2 20.08 5.4 3 20230120 Cloudy Moderate Mid-Flood Bottom 4.1 14:54 8.99 8.32 33.28 6.1 B3 20230120 Moderate Mid-Flood Surface 14:30 8.69 8.37 31.99 19.87 6 Cloudy 1 B3 19.94 6.9 7 20230120 Cloudy Moderate Mid-Flood Surface 1 14:30 8.85 8.38 31.91 B3 20230120 3.3 19.91 6.5 2 Moderate Mid-Flood 14:29 8.73 8.36 31.94 Cloudy Bottom B3 3.3 7.2 2 20230120 8.62 8.38 19.86 Cloudy Moderate Mid-Flood Bottom 14:29 31.97 B4 20230120 8.35 32.56 19.96 5.6 2 Cloudy Moderate Mid-Flood Surface 1 14:40 8.6

Turbidty (NTU) Date Location Weather Sea Condition Tidal Water Level Depth (m) Time DO (mg/L) pН Sal (ppt) SS (mg/L) Temp (°C) (YYYYMMDD) Note 1 19.92 6.1 Β4 20230120 Cloudy Moderate Mid-Flood Surface 1 14:40 8.7 8.37 32.59 2 2 B4 20230120 Moderate Mid-Flood 3.7 14:39 8.6 8.38 32.63 19.89 6.3 Cloudy Bottom 6.3 19.93 2 B4 20230120 Cloudy Moderate Mid-Flood Bottom 3.7 14:39 8.81 8.33 32.63 20230120 6.2 9 C1A Cloudy Moderate Mid-Flood Surface 1 14:19 9.09 8.38 33.83 19.85 6.5 7 20230120 Moderate Mid-Flood 1 8.39 19.92 C1A Cloudy Surface 14:19 9.1 33.69 20230120 Moderate 5.5 9.19 8.38 19.9 6.8 3 C1A Cloudy Mid-Flood Middle 14:18 33.7 5.5 19.84 2 C1A 20230120 Cloudy Moderate Mid-Flood Middle 14:18 8.97 8.33 33.71 6.6 10 7.8 7 C1A 20230120 Moderate Mid-Flood 9.12 8.34 33.83 19.85 Cloudy Bottom 14:17 C1A 20230120 Cloudy Moderate Mid-Flood Bottom 10 14:17 9.18 8.38 33.83 19.9 7.1 11 7 C2A 20230120 Cloudy Moderate Mid-Flood Surface 1 14:19 8.78 8.36 32.45 20.11 8.6 Moderate 8.3 6 C2A 20230120 Mid-Flood Surface 1 14:19 8.9 8.38 32.4 20.15 Cloudy 8.8 C2A 20230120 Moderate 5.5 20.12 5 Mid-Flood Middle 14:18 8.61 8.38 32.58 Cloudy C2A 20230120 Cloudy Moderate Mid-Flood Middle 5.5 14:18 8.85 8.36 32.47 20.08 9.0 6 C2A 20230120 10 8.39 20.05 9.3 9 Moderate Mid-Flood 14:17 8.69 32.48 Cloudy Bottom 9.0 11 C2A 20230120 Cloudy Moderate Mid-Flood Bottom 10 14:17 8.75 8.39 32.54 20.07 5.2 5 CR1 20230120 Cloudy Moderate Mid-Flood Surface 1 15:48 8.99 8.28 32.46 19.88 5.9 3 CR1 20230120 Cloudy Moderate Mid-Flood Surface 1 15:48 8.77 8.35 32.65 19.9 CR1 20230120 19.96 5.7 12 Moderate Mid-Flood Middle 6.45 15:47 8.73 8.3 32.47 Cloudy 6.0 CR1 20230120 Cloudy Moderate Mid-Flood Middle 6.45 15:47 8.85 8.31 32.63 19.92 12 CR1 11.9 8.9 19.87 5.6 15 20230120 Moderate Mid-Flood 15:46 8.28 32.49 Cloudy Bottom 19.89 5.7 CR1 20230120 Moderate 11.9 8.87 8.3 11 Cloudy Mid-Flood 15:46 32.63 Bottom 5.0 2 CR2 20230120 Cloudy Moderate Mid-Flood Surface 1 15:34 8.84 8.31 32.75 20.03 3 CR2 20230120 Cloudy Moderate Mid-Flood Surface 1 15:34 9.04 8.31 32.67 19.97 5.8 CR2 19.99 5.5 2 20230120 Moderate Mid-Flood Middle 5.9 15:33 8.83 8.3 32.62 Cloudy 3 5.9 20.02 5.6 CR2 20230120 Cloudy Moderate Mid-Flood Middle 15:33 8.85 8.31 32.69 CR2 Moderate 5.6 10 20230120 Mid-Flood 10.8 15:32 9.13 8.32 32.73 20.1 Cloudy Bottom 6.3 CR2 20230120 Cloudy Moderate Mid-Flood 10.8 15:32 9.07 8.33 32.74 20.09 9 Bottom 19.99 5.9 2 F1A 20230120 Cloudy Moderate Mid-Flood Surface 1 15:06 9.54 8.27 33.08 20230120 Moderate 1 8.3 19.91 6.3 2 F1A Cloudy Mid-Flood Surface 15:06 9.37 33.02 2 F1A 20230120 Moderate Mid-Flood 3.85 9.53 8.3 33.12 19.96 6.4 Cloudy Middle 15:05 20230120 3.85 6.0 2 F1A Cloudy Moderate Mid-Flood Middle 15:05 9.68 8.33 33.03 20.01 19.96 6.8 10 F1A 20230120 Cloudy Moderate Mid-Flood Bottom 6.7 15:04 9.61 8.28 33.05 F1A 20230120 Moderate Mid-Flood 6.7 15:04 9.57 8.31 33.17 20.01 7.4 13 Cloudy Bottom 2 H1 20230120 Cloudy Moderate Mid-Flood Surface 1 15:23 8.63 8.37 32.24 19.81 6.6 H1 20230120 1 8.39 19.91 6.4 4 Moderate Mid-Flood Surface 15:23 8.47 32.23 Cloudy 2 H1 20230120 4.1 8.62 8.38 19.82 6.7 Cloudy Moderate Mid-Flood Middle 15:22 32.34 H1 20230120 15:22 8.52 8.39 32.4 19.91 4 Cloudy Moderate Mid-Flood Middle 4.1 6.1

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	20230120	Cloudy	Moderate	Mid-Flood	Bottom	7.2	15:21	8.48	8.38	32.19	19.8	7.2	2
H1	20230120	Cloudy	Moderate	Mid-Flood	Bottom	7.2	15:21	8.7	8.35	32.21	19.87	7.1	2
M1	20230120	Cloudy	Moderate	Mid-Flood	Surface	1	15:29	9.51	8.23	33.01	20.02	7.3	7
M1	20230120	Cloudy	Moderate	Mid-Flood	Surface	1	15:29	9.53	8.24	32.94	20.05	7.5	5
M1	20230120	Cloudy	Moderate	Mid-Flood	Middle	4	15:28	9.33	8.27	32.91	19.96	8.3	2
M1	20230120	Cloudy	Moderate	Mid-Flood	Middle	4	15:28	9.33	8.29	32.83	20.01	7.5	2
M1	20230120	Cloudy	Moderate	Mid-Flood	Bottom	7	15:27	9.35	8.28	32.96	20	7.6	2
M1	20230120	Cloudy	Moderate	Mid-Flood	Bottom	7	15:27	9.27	8.31	32.98	19.95	8.3	2
B1	20230124	Sunny	Moderate	Mid-Ebb	Surface	1	14:58	8.27	8.25	33.22	20.56	4.0	7
B1	20230124	Sunny	Moderate	Mid-Ebb	Surface	1	14:58	8.23	8.25	33.09	20.59	4.3	5
B1	20230124	Sunny	Moderate	Mid-Ebb	Bottom	3.7	14:57	8.25	8.24	33.19	20.52	4.0	3
B1	20230124	Sunny	Moderate	Mid-Ebb	Bottom	3.7	14:57	8.25	8.26	33.24	20.63	4.5	5
B2	20230124	Sunny	Moderate	Mid-Ebb	Surface	1	15:12	8.24	8.29	32.58	20.48	3.5	5
B2	20230124	Sunny	Moderate	Mid-Ebb	Surface	1	15:12	8.25	8.3	32.57	20.52	3.7	3
B2	20230124	Sunny	Moderate	Mid-Ebb	Bottom	4.1	15:11	8.25	8.32	32.53	20.49	4.0	3
B2	20230124	Sunny	Moderate	Mid-Ebb	Bottom	4.1	15:11	8.26	8.26	32.65	20.46	4.4	3
B3	20230124	Sunny	Moderate	Mid-Ebb	Surface	1	15:36	8.65	8.33	33.17	20.97	4.3	2
B3	20230124	Sunny	Moderate	Mid-Ebb	Surface	1	15:36	8.81	8.33	33.19	20.88	4.1	4
B3	20230124	Sunny	Moderate	Mid-Ebb	Bottom	4.2	15:35	8.77	8.27	33.17	20.92	5.2	2
B3	20230124	Sunny	Moderate	Mid-Ebb	Bottom	4.2	15:35	8.75	8.32	33.17	20.91	4.7	2
B4	20230124	Sunny	Moderate	Mid-Ebb	Surface	1	15:24	9.52	8.25	32.48	20.69	4.2	2
B4	20230124	Sunny	Moderate	Mid-Ebb	Surface	1	15:24	9.57	8.32	32.46	20.68	4.5	3
B4	20230124	Sunny	Moderate	Mid-Ebb	Bottom	3.1	15:23	9.54	8.33	32.45	20.63	4.0	2
B4	20230124	Sunny	Moderate	Mid-Ebb	Bottom	3.1	15:23	9.57	8.25	32.5	20.66	4.1	3
C1A	20230124	Sunny	Moderate	Mid-Ebb	Surface	1	14:34	9.2	8.31	33.02	20.78	5.7	4
C1A	20230124	Sunny	Moderate	Mid-Ebb	Surface	1	14:34	9.19	8.29	32.93	20.91	5.8	4
C1A	20230124	Sunny	Moderate	Mid-Ebb	Middle	4.75	14:33	9.22	8.29	33.08	20.82	5.8	3
C1A	20230124	Sunny	Moderate	Mid-Ebb	Middle	4.75	14:33	9.25	8.3	32.94	20.9	6.0	4
C1A	20230124	Sunny	Moderate	Mid-Ebb	Bottom	8.5	14:32	9.26	8.29	32.99	20.9	6.0	4
C1A	20230124	Sunny	Moderate	Mid-Ebb	Bottom	8.5	14:32	9.28	8.28	33.07	20.85	6.1	3
C2A	20230124	Sunny	Moderate	Mid-Ebb	Surface	1	16:18	8.33	8.24	32.87	20.67	4.8	2
C2A	20230124	Sunny	Moderate	Mid-Ebb	Surface	1	16:18	8.18	8.27	32.88	20.61	4.9	2
C2A	20230124	Sunny	Moderate	Mid-Ebb	Middle	5.95	16:17	8.3	8.24	32.85	20.57	5.0	4
C2A	20230124	Sunny	Moderate	Mid-Ebb	Middle	5.95	16:17	8.33	8.25	32.85	20.58	5.1	5
C2A	20230124	Sunny	Moderate	Mid-Ebb	Bottom	10.9	16:16	8.18	8.26	32.77	20.69	5.1	3
C2A	20230124	Sunny	Moderate	Mid-Ebb	Bottom	10.9	16:16	8.24	8.27	32.89	20.6	5.2	3
CR1	20230124	Sunny	Moderate	Mid-Ebb	Surface	1	16:00	9.23	8.18	32.52	20.45	4.1	4

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

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рH	Sal (ppt)	Temp (°C)	Turbidty (NTU) Note 1	SS (mg/L)
CR1	20230124	Sunny	Moderate	Mid-Ebb	Surface	1	16:00	9.25	8.24	32.61	20.5	3.8	2
CR1	20230124	Sunny	Moderate	Mid-Ebb	Middle	6.4	15:59	9.21	8.2	32.53	20.54	5.1	3
CR1	20230124	Sunny	Moderate	Mid-Ebb	Middle	6.4	15:59	9.25	8.26	32.56	20.57	4.7	5
CR1	20230124	Sunny	Moderate	Mid-Ebb	Bottom	11.8	15:58	9.2	8.2	32.58	20.49	4.5	5
CR1	20230124	Sunny	Moderate	Mid-Ebb	Bottom	11.8	15:58	9.13	8.19	32.58	20.46	4.8	2
CR2	20230124	Sunny	Moderate	Mid-Ebb	Surface	1	15:48	8.22	8.3	32.05	20.92	4.2	5
CR2	20230124	Sunny	Moderate	Mid-Ebb	Surface	1	15:48	8.18	8.32	31.99	20.9	3.9	5
CR2	20230124	Sunny	Moderate	Mid-Ebb	Middle	6	15:47	8.29	8.3	31.99	20.88	4.5	2
CR2	20230124	Sunny	Moderate	Mid-Ebb	Middle	6	15:47	8.29	8.33	32.06	20.86	4.2	2
CR2	20230124	Sunny	Moderate	Mid-Ebb	Bottom	11	15:46	8.16	8.28	31.97	20.81	4.8	2
CR2	20230124	Sunny	Moderate	Mid-Ebb	Bottom	11	15:46	8.27	8.26	31.92	20.91	4.7	3
F1A	20230124	Sunny	Moderate	Mid-Ebb	Surface	1	15:01	8.26	8.28	32.57	20.51	4.0	4
F1A	20230124	Sunny	Moderate	Mid-Ebb	Surface	1	15:01	8.31	8.31	32.72	20.59	3.7	4
F1A	20230124	Sunny	Moderate	Mid-Ebb	Middle	4.45	15:00	8.33	8.24	32.55	20.48	4.0	3
F1A	20230124	Sunny	Moderate	Mid-Ebb	Middle	4.45	15:00	8.39	8.24	32.72	20.49	3.9	2
F1A	20230124	Sunny	Moderate	Mid-Ebb	Bottom	7.9	14:59	8.33	8.24	32.54	20.5	4.6	3
F1A	20230124	Sunny	Moderate	Mid-Ebb	Bottom	7.9	14:59	8.4	8.27	32.68	20.57	4.5	3
H1	20230124	Sunny	Moderate	Mid-Ebb	Surface	1	15:36	9.58	8.19	32.74	20.82	3.0	4
H1	20230124	Sunny	Moderate	Mid-Ebb	Surface	1	15:36	9.54	8.28	32.81	20.77	3.3	3
H1	20230124	Sunny	Moderate	Mid-Ebb	Middle	4.2	15:35	9.46	8.22	32.84	20.75	3.3	4
H1	20230124	Sunny	Moderate	Mid-Ebb	Middle	4.2	15:35	9.46	8.27	32.81	20.79	4.0	4
H1	20230124	Sunny	Moderate	Mid-Ebb	Bottom	7.4	15:34	9.59	8.18	32.88	20.74	4.1	3
H1	20230124	Sunny	Moderate	Mid-Ebb	Bottom	7.4	15:34	9.59	8.22	32.81	20.73	4.0	4
M1	20230124	Sunny	Moderate	Mid-Ebb	Surface	1	14:36	9.22	8.26	32.32	20.57	4.4	2
M1	20230124	Sunny	Moderate	Mid-Ebb	Surface	1	14:36	9.22	8.34	32.36	20.6	4.4	2
M1	20230124	Sunny	Moderate	Mid-Ebb	Middle	4.95	14:35	9.13	8.27	32.3	20.52	4.9	7
M1	20230124	Sunny	Moderate	Mid-Ebb	Middle	4.95	14:35	9.18	8.32	32.37	20.51	4.3	5
M1	20230124	Sunny	Moderate	Mid-Ebb	Bottom	8.9	14:34	9.28	8.26	32.23	20.52	5.3	7
M1	20230124	Sunny	Moderate	Mid-Ebb	Bottom	8.9	14:34	9.11	8.3	32.28	20.52	4.8	4
B1	20230124	Sunny	Moderate	Mid-Flood	Surface	1	18:00	8.41	8.18	33.17	20.64	4.0	5
B1	20230124	Sunny	Moderate	Mid-Flood	Surface	1	18:00	8.3	8.18	33.13	20.7	4.2	3
B1	20230124	Sunny	Moderate	Mid-Flood	Bottom	3.8	17:59	8.27	8.27	33.16	20.68	4.6	2
B1	20230124	Sunny	Moderate	Mid-Flood	Bottom	3.8	17:59	8.41	8.24	33.3	20.59	4.4	3
B2	20230124	Sunny	Moderate	Mid-Flood	Surface	1	18:13	8.84	8.19	31.78	21.01	3.7	3
B2	20230124	Sunny	Moderate	Mid-Flood	Surface	1	18:13	8.86	8.21	31.82	20.98	4.0	2
B2	20230124	Sunny	Moderate	Mid-Flood	Bottom	3.7	18:12	8.83	8.25	31.92	20.99	4.3	3
B2	20230124	Sunny	Moderate	Mid-Flood	Bottom	3.7	18:12	8.75	8.2	31.84	20.89	4.0	2

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)
B3	20230124	Sunny	Moderate	Mid-Flood	Surface	1	16:56	8.79	8.27	32.92	20.58	4.5	2
B3	20230124	Sunny	Moderate	Mid-Flood	Surface	1	16:56	8.86	8.28	32.73	20.46	4.2	2
B3	20230124	Sunny	Moderate	Mid-Flood	Bottom	3.7	16:55	8.79	8.18	32.93	20.59	5.4	2
B3	20230124	Sunny	Moderate	Mid-Flood	Bottom	3.7	16:55	8.85	8.19	32.76	20.59	5.3	3
B4	20230124	Sunny	Moderate	Mid-Flood	Surface	1	17:06	8.5	8.21	31.53	20.72	4.6	3
B4	20230124	Sunny	Moderate	Mid-Flood	Surface	1	17:06	8.45	8.19	31.41	20.8	4.3	2
B4	20230124	Sunny	Moderate	Mid-Flood	Bottom	3.9	17:05	8.44	8.19	31.57	20.79	4.2	2
B4	20230124	Sunny	Moderate	Mid-Flood	Bottom	3.9	17:05	8.37	8.2	31.58	20.72	5.0	2
C1A	20230124	Sunny	Moderate	Mid-Flood	Surface	1	17:37	8.48	8.22	32.47	20.82	6.2	3
C1A	20230124	Sunny	Moderate	Mid-Flood	Surface	1	17:37	8.55	8.24	32.61	20.84	5.8	2
C1A	20230124	Sunny	Moderate	Mid-Flood	Middle	5.85	17:36	8.43	8.26	32.49	20.8	6.2	2
C1A	20230124	Sunny	Moderate	Mid-Flood	Middle	5.85	17:36	8.44	8.28	32.69	20.8	5.9	2
C1A	20230124	Sunny	Moderate	Mid-Flood	Bottom	10.7	17:35	8.55	8.19	32.58	20.76	6.5	4
C1A	20230124	Sunny	Moderate	Mid-Flood	Bottom	10.7	17:35	8.46	8.21	32.66	20.79	6.4	4
C2A	20230124	Sunny	Moderate	Mid-Flood	Surface	1	16:57	8.21	8.27	32.04	21.02	6.7	4
C2A	20230124	Sunny	Moderate	Mid-Flood	Surface	1	16:57	8.39	8.25	31.89	20.98	6.6	5
C2A	20230124	Sunny	Moderate	Mid-Flood	Middle	5.7	16:56	8.21	8.22	31.93	21.01	7.0	4
C2A	20230124	Sunny	Moderate	Mid-Flood	Middle	5.7	16:56	8.28	8.26	31.99	20.93	6.8	5
C2A	20230124	Sunny	Moderate	Mid-Flood	Bottom	10.4	16:55	8.26	8.2	32.06	20.97	7.2	5
C2A	20230124	Sunny	Moderate	Mid-Flood	Bottom	10.4	16:55	8.31	8.26	31.98	21.03	7.0	3
CR1	20230124	Sunny	Moderate	Mid-Flood	Surface	1	17:10	8.19	8.28	31.54	20.77	5.0	6
CR1	20230124	Sunny	Moderate	Mid-Flood	Surface	1	17:10	8.31	8.34	31.65	20.75	5.3	4
CR1	20230124	Sunny	Moderate	Mid-Flood	Middle	6.15	17:09	8.29	8.3	31.56	20.81	5.1	5
CR1	20230124	Sunny	Moderate	Mid-Flood	Middle	6.15	17:09	8.16	8.32	31.73	20.69	5.1	3
CR1	20230124	Sunny	Moderate	Mid-Flood	Bottom	11.3	17:08	8.17	8.27	31.62	20.81	6.0	2
CR1	20230124	Sunny	Moderate	Mid-Flood	Bottom	11.3	17:08	8.29	8.34	31.57	20.76	6.4	3
CR2	20230124	Sunny	Moderate	Mid-Flood	Surface	1	17:22	9	8.24	31.99	20.61	4.4	6
CR2	20230124	Sunny	Moderate	Mid-Flood	Surface	1	17:22	8.99	8.27	31.96	20.54	3.8	3
CR2	20230124	Sunny	Moderate	Mid-Flood	Middle	5.8	17:21	9.01	8.23	32.08	20.55	4.9	2
CR2	20230124	Sunny	Moderate	Mid-Flood	Middle	5.8	17:21	9.07	8.3	31.89	20.54	4.3	3
CR2	20230124	Sunny	Moderate	Mid-Flood	Bottom	10.6	17:20	8.91	8.23	31.91	20.62	4.3	4
CR2	20230124	Sunny	Moderate	Mid-Flood	Bottom	10.6	17:20	8.98	8.31	32.13	20.59	4.6	5
F1A	20230124	Sunny	Moderate	Mid-Flood	Surface	1	17:28	8.54	8.25	32.73	20.59	5.0	2
F1A	20230124	Sunny	Moderate	Mid-Flood	Surface	1	17:28	8.53	8.29	32.6	20.64	5.3	4
F1A	20230124	Sunny	Moderate	Mid-Flood	Middle	4.05	17:27	8.46	8.34	32.67	20.53	5.5	4
F1A	20230124	Sunny	Moderate	Mid-Flood	Middle	4.05	17:27	8.53	8.35	32.7	20.63	5.3	4
F1A	20230124	Sunny	Moderate	Mid-Flood	Bottom	7.1	17:26	8.6	8.32	32.65	20.54	5.9	3

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

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)
F1A	20230124	Sunny	Moderate	Mid-Flood	Bottom	7.1	17:26	8.56	8.33	32.47	20.59	5.2	2
H1	20230124	Sunny	Moderate	Mid-Flood	Surface	1	18:39	8.43	8.27	31.52	20.56	4.0	4
H1	20230124	Sunny	Moderate	Mid-Flood	Surface	1	18:39	8.32	8.21	31.56	20.53	4.2	2
H1	20230124	Sunny	Moderate	Mid-Flood	Middle	3.85	18:38	8.5	8.27	31.68	20.57	4.0	2
H1	20230124	Sunny	Moderate	Mid-Flood	Middle	3.85	18:38	8.44	8.2	31.44	20.53	4.6	2
H1	20230124	Sunny	Moderate	Mid-Flood	Bottom	6.7	18:37	8.35	8.22	31.56	20.53	5.4	2
H1	20230124	Sunny	Moderate	Mid-Flood	Bottom	6.7	18:37	8.47	8.28	31.58	20.47	4.8	2
M1	20230124	Sunny	Moderate	Mid-Flood	Surface	1	17:49	8.49	8.2	32.29	20.76	6.1	6
M1	20230124	Sunny	Moderate	Mid-Flood	Surface	1	17:49	8.34	8.2	32.27	20.77	5.9	4
M1	20230124	Sunny	Moderate	Mid-Flood	Middle	3.7	17:48	8.41	8.25	32.44	20.78	5.4	5
M1	20230124	Sunny	Moderate	Mid-Flood	Middle	3.7	17:48	8.38	8.3	32.52	20.73	5.8	5
M1	20230124	Sunny	Moderate	Mid-Flood	Bottom	6.4	17:47	8.39	8.24	32.34	20.82	5.6	4
M1	20230124	Sunny	Moderate	Mid-Flood	Bottom	6.4	17:47	8.37	8.25	32.53	20.86	5.6	5
B1	20230126	Cloudy	Moderate	Mid-Flood	Surface	1	10:03	9.17	8.21	32.81	21.32	4.1	6
B1	20230126	Cloudy	Moderate	Mid-Flood	Surface	1	10:03	9.17	8.17	32.73	21.27	4.1	6
B1	20230126	Cloudy	Moderate	Mid-Flood	Bottom	4.1	10:02	9.1	8.14	32.81	21.36	3.7	8
B1	20230126	Cloudy	Moderate	Mid-Flood	Bottom	4.1	10:02	9.09	8.16	32.82	21.33	3.9	9
B2	20230126	Cloudy	Moderate	Mid-Flood	Surface	1	10:19	8.36	8.16	32.11	21.23	2.9	6
B2	20230126	Cloudy	Moderate	Mid-Flood	Surface	1	10:19	8.47	8.14	32.13	21.32	2.6	6
B2	20230126	Cloudy	Moderate	Mid-Flood	Bottom	4.1	10:18	8.46	8.07	32.06	21.4	3.8	6
B2	20230126	Cloudy	Moderate	Mid-Flood	Bottom	4.1	10:18	8.48	8.15	32.12	21.24	3.3	7
B3	20230126	Cloudy	Moderate	Mid-Flood	Surface	1	10:37	8.9	8.28	32.27	21.03	5.0	8
B3	20230126	Cloudy	Moderate	Mid-Flood	Surface	1	10:37	9.04	8.22	32.2	20.99	4.9	9
B3	20230126	Cloudy	Moderate	Mid-Flood	Bottom	4.3	10:36	8.86	8.26	32.36	21.1	4.6	8
B3	20230126	Cloudy	Moderate	Mid-Flood	Bottom	4.3	10:36	9.03	8.3	32.39	21	4.9	8
B4	20230126	Cloudy	Moderate	Mid-Flood	Surface	1	10:27	8.61	8.32	32.54	21.16	4.5	7
B4	20230126	Cloudy	Moderate	Mid-Flood	Surface	1	10:27	8.62	8.29	32.45	21.1	4.7	4
B4	20230126	Cloudy	Moderate	Mid-Flood	Bottom	3.9	10:26	8.59	8.3	32.41	21.13	4.6	3
B4	20230126	Cloudy	Moderate	Mid-Flood	Bottom	3.9	10:26	8.56	8.37	32.46	21.18	4.8	5
C1A	20230126	Cloudy	Moderate	Mid-Flood	Surface	1	09:39	9.09	8.29	32.74	21.01	4.9	4
C1A	20230126	Cloudy	Moderate	Mid-Flood	Surface	1	09:39	9.1	8.28	32.72	21.18	4.7	3
C1A	20230126	Cloudy	Moderate	Mid-Flood	Middle	5	09:38	9.03	8.26	32.53	21.2	4.5	2
C1A	20230126	Cloudy	Moderate	Mid-Flood	Middle	5	09:38	9.17	8.33	32.67	21.03	4.7	4
C1A	20230126	Cloudy	Moderate	Mid-Flood	Bottom	9	09:37	9.08	8.23	32.61	21.16	4.9	3
C1A	20230126	Cloudy	Moderate	Mid-Flood	Bottom	9	09:37	9.14	8.28	32.73	21.07	5.0	2
C2A	20230126	Cloudy	Moderate	Mid-Flood	Surface	1	08:50	8.68	8.17	33.43	21.31	5.2	5
C2A	20230126	Cloudy	Moderate	Mid-Flood	Surface	1	08:50	8.65	8.24	33.53	21.24	5.2	9

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

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)
C2A	20230126	Cloudy	Moderate	Mid-Flood	Middle	5.5	08:49	8.77	8.23	33.58	21.28	5.5	3
C2A	20230126	Cloudy	Moderate	Mid-Flood	Middle	5.5	08:49	8.7	8.17	33.46	21.27	5.2	5
C2A	20230126	Cloudy	Moderate	Mid-Flood	Bottom	10	08:48	8.69	8.21	33.51	21.19	6.0	3
C2A	20230126	Cloudy	Moderate	Mid-Flood	Bottom	10	08:48	8.74	8.25	33.58	21.24	5.8	6
CR1	20230126	Cloudy	Moderate	Mid-Flood	Surface	1	09:08	8.1	8.24	32.09	21.11	5.1	3
CR1	20230126	Cloudy	Moderate	Mid-Flood	Surface	1	09:08	8.15	8.33	31.95	21.18	5.0	3
CR1	20230126	Cloudy	Moderate	Mid-Flood	Middle	6	09:07	8.16	8.34	32.11	21.25	5.2	6
CR1	20230126	Cloudy	Moderate	Mid-Flood	Middle	6	09:07	8.06	8.25	31.95	21.14	5.0	3
CR1	20230126	Cloudy	Moderate	Mid-Flood	Bottom	11	09:06	8.18	8.32	31.94	21.16	4.5	2
CR1	20230126	Cloudy	Moderate	Mid-Flood	Bottom	11	09:06	8.09	8.28	32	21.07	4.9	2
CR2	20230126	Cloudy	Moderate	Mid-Flood	Surface	1	09:22	8.99	8.34	31.97	20.94	3.3	3
CR2	20230126	Cloudy	Moderate	Mid-Flood	Surface	1	09:22	8.9	8.38	32.14	21.1	3.9	2
CR2	20230126	Cloudy	Moderate	Mid-Flood	Middle	5.35	09:21	8.83	8.36	32.08	21.01	4.2	3
CR2	20230126	Cloudy	Moderate	Mid-Flood	Middle	5.35	09:21	8.9	8.32	31.95	21.04	4.2	2
CR2	20230126	Cloudy	Moderate	Mid-Flood	Bottom	9.7	09:20	8.96	8.31	32.08	20.93	4.4	6
CR2	20230126	Cloudy	Moderate	Mid-Flood	Bottom	9.7	09:20	8.93	8.35	32.11	20.94	4.1	8
F1A	20230126	Cloudy	Moderate	Mid-Flood	Surface	1	09:50	8.69	8.13	32.63	21.43	3.4	3
F1A	20230126	Cloudy	Moderate	Mid-Flood	Surface	1	09:50	8.82	8.17	32.43	21.36	3.4	3
F1A	20230126	Cloudy	Moderate	Mid-Flood	Middle	4.3	09:49	8.77	8.14	32.65	21.42	3.3	6
F1A	20230126	Cloudy	Moderate	Mid-Flood	Middle	4.3	09:49	8.83	8.17	32.58	21.45	3.7	6
F1A	20230126	Cloudy	Moderate	Mid-Flood	Bottom	7.6	09:48	8.66	8.1	32.44	21.42	4.0	4
F1A	20230126	Cloudy	Moderate	Mid-Flood	Bottom	7.6	09:48	8.68	8.12	32.57	21.49	3.9	3
H1	20230126	Cloudy	Moderate	Mid-Flood	Surface	1	10:48	9.35	8.19	33.39	21.44	3.7	3
H1	20230126	Cloudy	Moderate	Mid-Flood	Surface	1	10:48	9.28	8.24	33.21	21.37	3.8	5
H1	20230126	Cloudy	Moderate	Mid-Flood	Middle	3.9	10:47	9.31	8.21	33.28	21.42	4.0	3
H1	20230126	Cloudy	Moderate	Mid-Flood	Middle	3.9	10:47	9.41	8.19	33.26	21.32	3.7	3
H1	20230126	Cloudy	Moderate	Mid-Flood	Bottom	6.8	10:46	9.37	8.24	33.24	21.43	4.5	5
H1	20230126	Cloudy	Moderate	Mid-Flood	Bottom	6.8	10:46	9.39	8.27	33.22	21.35	4.1	3
M1	20230126	Cloudy	Moderate	Mid-Flood	Surface	1	09:27	8.92	8.29	32.22	21.08	3.5	4
M1	20230126	Cloudy	Moderate	Mid-Flood	Surface	1	09:27	9.02	8.36	31.99	21.15	3.6	4
M1	20230126	Cloudy	Moderate	Mid-Flood	Middle	3.7	09:26	8.97	8.36	32.07	21.18	4.2	3
M1	20230126	Cloudy	Moderate	Mid-Flood	Middle	3.7	09:26	8.95	8.34	32.12	21.18	3.8	3
M1	20230126	Cloudy	Moderate	Mid-Flood	Bottom	6.4	09:25	8.92	8.31	32.09	21.26	4.0	5
M1	20230126	Cloudy	Moderate	Mid-Flood	Bottom	6.4	09:25	8.85	8.34	32.19	21.23	4.2	3
B1	20230126	Cloudy	Moderate	Mid-Ebb	Surface	1	14:50	8.25	8.25	33.51	21.13	4.3	4
B1	20230126	Cloudy	Moderate	Mid-Ebb	Surface	1	14:50	8.26	8.34	33.14	21.11	3.9	4
B1	20230126	Cloudy	Moderate	Mid-Ebb	Bottom	3.6	14:49	8.36	8.22	33.48	21.1	4.4	4

Turbidty (NTU) Date Location Weather Sea Condition Tidal Water Level Depth (m) Time DO (mg/L) pН Sal (ppt) SS (mg/L) Temp (°C) (YYYYMMDD) Note 1 3.6 8.33 4.1 B1 20230126 Cloudy Moderate Mid-Ebb Bottom 14:49 8.31 33.49 21.16 8 5 B2 20230126 Moderate Mid-Ebb Surface 15:06 8.4 8.24 32.39 21.33 3.9 Cloudy 1 20230126 3.7 B2 4 Cloudy Moderate Mid-Ebb Surface 1 15:06 8.23 8.26 32.44 21.31 21.22 5 B2 20230126 Cloudy Moderate Mid-Ebb Bottom 4.6 15:05 8.4 8.27 32.42 4.4 B2 3 20230126 Moderate Mid-Ebb 8.24 21.35 4.6 Cloudy Bottom 4.6 15:05 8.21 32.53 B3 20230126 9.5 21.42 4.9 4 Cloudy Moderate Mid-Ebb Surface 1 14:27 8.2 32.23 14:27 8.22 B3 20230126 Cloudy Moderate Mid-Ebb Surface 1 9.53 32.43 21.51 4.9 4 B3 20230126 8.22 5.1 Moderate Mid-Ebb 4.2 14:26 9.46 32.46 21.56 4 Cloudy Bottom B3 20230126 Cloudy Moderate Mid-Ebb Bottom 4.2 14:26 9.6 8.22 32.38 21.57 4.9 4 20230126 8.23 4.2 B4 Cloudy Moderate Mid-Ebb Surface 1 14:37 8.46 32.23 21.1 4 4.4 8 B4 20230126 Moderate Mid-Ebb Surface 1 14:37 8.45 8.28 32.61 21.19 Cloudy Β4 20230126 Moderate 3.8 21.06 4.8 5 Mid-Ebb 14:36 8.43 8.22 32.34 Cloudy Bottom 4.6 B4 20230126 Cloudy Moderate Mid-Ebb Bottom 3.8 14:36 8.53 8.25 32.61 21.09 4 20230126 Mid-Ebb 8.45 8.29 21.35 5.9 7 C1A Moderate Surface 1 14:28 31.95 Cloudy 5.7 1 6 C1A 20230126 Cloudy Moderate Mid-Ebb Surface 14:28 8.26 8.34 32 21.4 21.32 6.2 3 C1A 20230126 Cloudy Moderate Mid-Ebb Middle 4.7 14:27 8.27 8.23 31.8 3 C1A 20230126 Cloudy Moderate Mid-Ebb Middle 4.7 14:27 8.31 8.31 32.09 21.33 6.4 20230126 21.28 6.8 4 C1A Moderate Mid-Ebb 8.4 14:26 8.43 8.32 Cloudy Bottom 32.01 6.5 C1A 20230126 Cloudy Moderate Mid-Ebb Bottom 8.4 14:26 8.27 8.34 31.98 21.38 4 20230126 21.27 5.1 3 C2A Moderate Mid-Ebb Surface 1 16:17 9.35 8.23 31.95 Cloudy 5.1 C2A 20230126 Moderate 9.43 8.27 21.28 4 Cloudy Mid-Ebb Surface 1 16:17 31.68 6 5.3 6 C2A 20230126 Cloudy Moderate Mid-Ebb Middle 16:16 9.47 8.26 31.61 21.25 8 C2A 20230126 Cloudy Moderate Mid-Ebb Middle 6 16:16 9.46 8.31 31.96 21.41 5.4 21.37 6.0 C2A 20230126 Moderate Mid-Ebb 11 16:15 9.33 8.24 31.76 6 Cloudy Bottom 5.3 C2A 20230126 Cloudy Moderate Mid-Ebb Bottom 11 16:15 9.38 8.31 31.92 21.36 4 CR1 Moderate 5.0 5 20230126 Mid-Ebb Surface 8.37 8.26 32.29 21.57 Cloudy 1 16:01 4.8 5 CR1 20230126 Cloudy Moderate Mid-Ebb Surface 1 16:01 8.49 8.2 32.19 21.4 6.85 4.9 CR1 20230126 Cloudy Moderate Mid-Ebb Middle 16:00 8.56 8.29 32.16 21.57 4 CR1 20230126 Moderate 8.47 8.3 21.56 5.0 4 Cloudy Mid-Ebb Middle 6.85 16:00 32.37 5.7 CR1 20230126 Moderate Mid-Ebb 12.7 8.49 8.22 32.08 21.54 4 Cloudy Bottom 15:59 CR1 20230126 5.4 5 Cloudy Moderate Mid-Ebb Bottom 12.7 15:59 8.37 8.23 32.26 21.4 21.21 3.9 4 CR2 20230126 Cloudy Moderate Mid-Ebb Surface 1 15:47 9.35 8.24 32.97 21.06 4.4 5 CR2 20230126 Moderate Mid-Ebb Surface 1 15:47 9.46 8.28 32.83 Cloudy CR2 5 20230126 Cloudy Moderate Mid-Ebb Middle 5.55 15:46 9.39 8.21 32.62 21.13 5.1 CR2 20230126 5.55 8.22 21.06 4.9 4 Moderate Mid-Ebb Middle 15:46 9.54 32.84 Cloudy CR2 5.2 20230126 Mid-Ebb 9.39 8.23 Cloudy Moderate Bottom 10.1 15:45 32.84 21.05 4 CR2 20230126 9.38 8.25 5.2 4 Cloudy Moderate Mid-Ebb Bottom 10.1 15:45 32.69 21.07

Turbidty (NTU) Date Location Weather Sea Condition Tidal Water Level Depth (m) Time DO (mg/L) pН Sal (ppt) Temp (°C) (YYYYMMDD) Note 1 21.42 3.3 F1A 20230126 Cloudy Moderate Mid-Ebb Surface 1 15:02 9.5 8.26 31.7 9.53 3.2 F1A 20230126 Moderate Mid-Ebb Surface 1 15:02 8.26 31.53 21.44 Cloudy 3.9 F1A 20230126 Cloudy Moderate Mid-Ebb Middle 4.2 15:01 9.36 8.22 31.82 21.41 20230126 4.2 3.5 F1A Cloudy Moderate Mid-Ebb Middle 15:01 9.55 8.26 31.65 21.47 4.3 F1A 20230126 Moderate Mid-Ebb 9.52 8.24 21.31 Cloudy Bottom 7.4 15:00 31.57 3.9 20230126 8.22 21.44 F1A Cloudy Moderate Mid-Ebb Bottom 7.4 15:00 9.46 31.65 H1 20230126 Cloudy Moderate Mid-Ebb Surface 1 15:32 9.25 8.19 32.5 21.57 5.4 H1 1 4.7 20230126 Moderate Mid-Ebb 15:32 9.18 8.22 32.58 21.42 Cloudy Surface H1 20230126 Cloudy Moderate Mid-Ebb Middle 4.45 15:31 9.14 8.24 32.87 21.6 4.8 20230126 H1 Cloudy Moderate Mid-Ebb Middle 4.45 15:31 9.14 8.27 32.49 21.52 5.6 7.9 6.0 H1 20230126 Moderate Mid-Ebb 15:30 9.14 8.17 32.55 21.44 Cloudy Bottom H1 20230126 Moderate 21.53 5.5 Mid-Ebb 7.9 15:30 9.12 8.25 32.62 Cloudy Bottom 4.6 M1 20230126 Cloudy Moderate Mid-Ebb Surface 1 15:25 8.92 8.29 32.18 21.4 20230126 Mid-Ebb 1 8.91 21.41 4.1 M1 Moderate Surface 15:25 8.36 32.25 Cloudy M1 20230126 Cloudy Moderate Mid-Ebb Middle 4.55 15:24 9.04 8.34 32.39 21.54 4.6 M1 20230126 Cloudy Moderate Mid-Ebb Middle 4.55 15:24 8.99 8.35 32.56 21.49 4.7 M1 20230126 Cloudy Moderate Mid-Ebb Bottom 8.1 15:23 9.08 8.3 32.61 21.45 4.7 20230126 21.57 4.5 M1 Moderate Mid-Ebb 8.1 15:23 8.87 8.33 32.35 Cloudy Bottom 4.0 B1 20230128 Sunny Moderate Mid-Flood Surface 1 11:15 8.36 8.2 32.87 21.33 B1 20230128 8.22 21.39 3.6 Moderate Mid-Flood 1 11:15 8.31 33.07 Sunny Surface B1 20230128 Moderate 3.9 8.28 21.41 4.1 Mid-Flood 11:14 8.4 32.91 Sunny Bottom B1 3.9 20230128 Sunny Moderate Mid-Flood Bottom 3.9 11:14 8.24 8.22 33.05 21.33 B2 20230128 Moderate Mid-Flood Surface 1 11:28 8.48 8.22 33.85 21.08 3.4 Sunny B2 20230128 8.27 3.3 Moderate Mid-Flood 1 11:28 8.57 33.71 21.07 Sunny Surface 3.7 21.18 B2 20230128 Sunny Moderate Mid-Flood Bottom 3.4 11:27 8.52 8.24 33.7 B2 20230128 3.7 Moderate Mid-Flood 3.4 11:27 8.52 8.27 33.68 21.1 Sunnv Bottom 4.6 B3 20230128 Moderate Mid-Flood Surface 1 12:20 8.37 8.26 32.97 21.17 Sunny B3 4.7 20230128 Sunny Moderate Mid-Flood Surface 1 12:20 8.4 8.33 33.11 21.13 B3 20230128 Moderate 3.9 8.29 33 21.1 4.5 Mid-Flood Bottom 12:19 8.28 Sunny 5.2 B3 20230128 Moderate Mid-Flood 3.9 12:19 8.28 8.29 33.09 21.09 Sunny Bottom 20230128 21.31 4.8 B4 Moderate Mid-Flood Surface 1 12:10 8.31 8.21 33.09 Sunny Β4 21.28 20230128 Moderate Mid-Flood Surface 1 12:10 8.43 8.25 33.13 4.6 Sunny B4 20230128 Moderate Mid-Flood 4 12:09 8.4 8.21 33.09 21.43 5.0 Sunny Bottom Β4 21.32 4.9 20230128 Sunny Moderate Mid-Flood Bottom 4 12:09 8.37 8.27 33.02 20230128 21.37 7.1 C1A Moderate Mid-Flood 1 8.58 8.24 33.51 Sunny Surface 10:52 7.1 C1A 20230128 8.62 8.26 21.22 Sunny Moderate Mid-Flood Surface 1 10:52 33.45

20230128

Sunny

Moderate

Mid-Flood

Middle

C1A

SS (mg/L)

3

4

3

3

6

4

5

3

3

5

8

5

8

4

5

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7

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5

6

5

4

8

11

3

4

4

5

4

4

3

2

4

5

12

10:51

8.22

8.63

33.37

21.26

7.2

5.5

Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рH	Sal (ppt)	Temp (⁰C)	Turbidty (NTU) Note 1	SS (mg/L)
C1A	20230128	Sunny	Moderate	Mid-Flood	Middle	5.5	10:51	8.54	8.24	33.38	21.23	7.1	7
C1A	20230128	Sunny	Moderate	Mid-Flood	Bottom	10	10:50	8.53	8.19	33.43	21.23	7.5	3
C1A	20230128	Sunny	Moderate	Mid-Flood	Bottom	10	10:50	8.56	8.27	33.33	21.37	7.5	5
C2A	20230128	Sunny	Moderate	Mid-Flood	Surface	1	10:07	8.27	8.32	33.34	21.19	6.9	4
C2A	20230128	Sunny	Moderate	Mid-Flood	Surface	1	10:07	8.19	8.34	33.23	21.13	6.7	4
C2A	20230128	Sunny	Moderate	Mid-Flood	Middle	5.95	10:06	8.24	8.32	33.3	21.15	7.3	8
C2A	20230128	Sunny	Moderate	Mid-Flood	Middle	5.95	10:06	8.31	8.34	33.31	21.17	7.0	14
C2A	20230128	Sunny	Moderate	Mid-Flood	Bottom	10.9	10:05	8.19	8.31	33.28	21.16	7.8	5
C2A	20230128	Sunny	Moderate	Mid-Flood	Bottom	10.9	10:05	8.23	8.3	33.15	21.01	8.1	4
CR1	20230128	Sunny	Moderate	Mid-Flood	Surface	1	10:26	9.39	8.27	33.53	21.36	6.9	5
CR1	20230128	Sunny	Moderate	Mid-Flood	Surface	1	10:26	9.35	8.28	33.7	21.32	6.2	5
CR1	20230128	Sunny	Moderate	Mid-Flood	Middle	6.5	10:25	9.49	8.25	33.65	21.42	6.4	5
CR1	20230128	Sunny	Moderate	Mid-Flood	Middle	6.5	10:25	9.47	8.32	33.57	21.32	6.8	6
CR1	20230128	Sunny	Moderate	Mid-Flood	Bottom	12	10:24	9.42	8.25	33.52	21.39	7.0	6
CR1	20230128	Sunny	Moderate	Mid-Flood	Bottom	12	10:24	9.35	8.27	33.57	21.29	6.5	6
CR2	20230128	Sunny	Moderate	Mid-Flood	Surface	1	10:38	9.07	8.23	33.15	21.25	5.2	3
CR2	20230128	Sunny	Moderate	Mid-Flood	Surface	1	10:38	8.99	8.25	33.19	21.19	5.4	4
CR2	20230128	Sunny	Moderate	Mid-Flood	Middle	5.7	10:37	9	8.2	33.32	21.26	5.9	5
CR2	20230128	Sunny	Moderate	Mid-Flood	Middle	5.7	10:37	8.97	8.25	33.15	21.3	5.4	7
CR2	20230128	Sunny	Moderate	Mid-Flood	Bottom	10.4	10:36	8.95	8.21	33.21	21.23	6.9	4
CR2	20230128	Sunny	Moderate	Mid-Flood	Bottom	10.4	10:36	8.99	8.24	33.2	21.35	6.4	5
F1A	20230128	Sunny	Moderate	Mid-Flood	Surface	1	11:36	8.99	8.31	33.11	21.19	4.6	6
F1A	20230128	Sunny	Moderate	Mid-Flood	Surface	1	11:36	9.1	8.28	33.04	21.03	4.4	6
F1A	20230128	Sunny	Moderate	Mid-Flood	Middle	4.4	11:35	9.12	8.34	32.99	21.01	3.7	4
F1A	20230128	Sunny	Moderate	Mid-Flood	Middle	4.4	11:35	9.09	8.27	33.17	21.12	4.0	4
F1A	20230128	Sunny	Moderate	Mid-Flood	Bottom	7.8	11:34	9	8.28	33.15	21.12	5.1	5
F1A	20230128	Sunny	Moderate	Mid-Flood	Bottom	7.8	11:34	9.13	8.28	33.14	21.06	4.7	5
H1	20230128	Sunny	Moderate	Mid-Flood	Surface	1	11:52	8.79	8.29	33.54	21.31	4.5	5
H1	20230128	Sunny	Moderate	Mid-Flood	Surface	1	11:52	8.84	8.22	33.4	21.34	4.5	5
H1	20230128	Sunny	Moderate	Mid-Flood	Middle	3.85	11:51	8.76	8.23	33.52	21.24	5.2	3
H1	20230128	Sunny	Moderate	Mid-Flood	Middle	3.85	11:51	8.77	8.23	33.53	21.26	4.6	3
H1	20230128	Sunny	Moderate	Mid-Flood	Bottom	6.7	11:50	8.76	8.28	33.5	21.43	5.4	7
H1	20230128	Sunny	Moderate	Mid-Flood	Bottom	6.7	11:50	8.87	8.21	33.41	21.33	5.7	11
M1	20230128	Sunny	Moderate	Mid-Flood	Surface	1	11:13	9.39	8.34	33.91	21.45	3.7	4
M1	20230128	Sunny	Moderate	Mid-Flood	Surface	1	11:13	9.33	8.29	34.01	21.52	3.9	4
M1	20230128	Sunny	Moderate	Mid-Flood	Middle	3.95	11:12	9.29	8.27	34.01	21.51	3.8	4
M1	20230128	Sunny	Moderate	Mid-Flood	Middle	3.95	11:12	9.35	8.33	33.96	21.39	3.8	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)
M1	20230128	Sunny	Moderate	Mid-Flood	Bottom	6.9	11:11	9.38	8.34	33.88	21.49	4.6	5
M1	20230128	Sunny	Moderate	Mid-Flood	Bottom	6.9	11:11	9.35	8.32	33.97	21.44	4.4	5
B1	20230128	Sunny	Moderate	Mid-Ebb	Surface	1	16:49	8.23	8.28	33.6	21.42	3.9	8
B1	20230128	Sunny	Moderate	Mid-Ebb	Surface	1	16:49	8.16	8.35	33.57	21.54	3.4	9
B1	20230128	Sunny	Moderate	Mid-Ebb	Bottom	4.2	16:48	8.33	8.27	33.65	21.46	3.6	9
B1	20230128	Sunny	Moderate	Mid-Ebb	Bottom	4.2	16:48	8.22	8.29	33.69	21.44	3.3	7
B2	20230128	Sunny	Moderate	Mid-Ebb	Surface	1	17:00	8.34	8.27	32.1	21.23	3.7	4
B2	20230128	Sunny	Moderate	Mid-Ebb	Surface	1	17:00	8.42	8.33	32.15	21.16	3.8	3
B2	20230128	Sunny	Moderate	Mid-Ebb	Bottom	4.7	16:59	8.47	8.27	32.17	21.23	3.2	7
B2	20230128	Sunny	Moderate	Mid-Ebb	Bottom	4.7	16:59	8.33	8.31	32.09	21.2	3.4	7
B3	20230128	Sunny	Moderate	Mid-Ebb	Surface	1	16:27	9.09	8.18	33.29	21.29	4.0	7
B3	20230128	Sunny	Moderate	Mid-Ebb	Surface	1	16:27	8.96	8.28	33.16	21.25	3.9	13
B3	20230128	Sunny	Moderate	Mid-Ebb	Bottom	3.7	16:26	9.05	8.18	33.31	21.3	4.3	9
B3	20230128	Sunny	Moderate	Mid-Ebb	Bottom	3.7	16:26	9.05	8.23	33.19	21.29	4.1	6
B4	20230128	Sunny	Moderate	Mid-Ebb	Surface	1	16:37	8.72	8.29	33.3	21.15	4.2	6
B4	20230128	Sunny	Moderate	Mid-Ebb	Surface	1	16:37	8.77	8.2	33.46	21.16	4.6	9
B4	20230128	Sunny	Moderate	Mid-Ebb	Bottom	3.7	16:36	8.77	8.28	33.34	21.1	5.3	6
B4	20230128	Sunny	Moderate	Mid-Ebb	Bottom	3.7	16:36	8.79	8.19	33.36	21.16	4.9	4
C1A	20230128	Sunny	Moderate	Mid-Ebb	Surface	1	16:28	9.12	8.38	32.16	21.52	6.1	5
C1A	20230128	Sunny	Moderate	Mid-Ebb	Surface	1	16:28	8.99	8.4	32.15	21.52	6.0	3
C1A	20230128	Sunny	Moderate	Mid-Ebb	Middle	5.05	16:27	8.94	8.36	32.09	21.45	6.2	4
C1A	20230128	Sunny	Moderate	Mid-Ebb	Middle	5.05	16:27	8.97	8.4	32.09	21.46	6.2	3
C1A	20230128	Sunny	Moderate	Mid-Ebb	Bottom	9.1	16:26	8.92	8.3	32.07	21.43	6.5	4
C1A	20230128	Sunny	Moderate	Mid-Ebb	Bottom	9.1	16:26	9.04	8.36	32.11	21.58	6.3	4
C2A	20230128	Sunny	Moderate	Mid-Ebb	Surface	1	17:59	9.43	8.24	33.14	21.19	5.6	9
C2A	20230128	Sunny	Moderate	Mid-Ebb	Surface	1	17:59	9.46	8.25	33.31	21.23	5.6	6
C2A	20230128	Sunny	Moderate	Mid-Ebb	Middle	5.7	17:58	9.5	8.24	33.31	21.14	5.5	6
C2A	20230128	Sunny	Moderate	Mid-Ebb	Middle	5.7	17:58	9.45	8.18	33.22	21.1	5.3	4
C2A	20230128	Sunny	Moderate	Mid-Ebb	Bottom	10.4	17:57	9.49	8.21	33.29	21.11	5.9	4
C2A	20230128	Sunny	Moderate	Mid-Ebb	Bottom	10.4	17:57	9.47	8.23	33.14	21.17	5.7	3
CR1	20230128	Sunny	Moderate	Mid-Ebb	Surface	1	17:45	8.99	8.21	32.51	21.6	4.9	5
CR1	20230128	Sunny	Moderate	Mid-Ebb	Surface	1	17:45	9.01	8.18	32.63	21.48	4.9	3
CR1	20230128	Sunny	Moderate	Mid-Ebb	Middle	6.85	17:44	9.13	8.23	32.47	21.54	4.3	9
CR1	20230128	Sunny	Moderate	Mid-Ebb	Middle	6.85	17:44	8.97	8.25	32.48	21.59	4.3	12
CR1	20230128	Sunny	Moderate	Mid-Ebb	Bottom	12.7	17:43	8.98	8.19	32.66	21.58	5.3	10
CR1	20230128	Sunny	Moderate	Mid-Ebb	Bottom	12.7	17:43	9.08	8.26	32.54	21.52	5.0	8
CR2	20230128	Sunny	Moderate	Mid-Ebb	Surface	1	17:34	9.16	8.29	33.2	21.31	4.6	15

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

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)
CR2	20230128	Sunny	Moderate	Mid-Ebb	Surface	1	17:34	9.15	8.32	33.33	21.38	4.6	8
CR2	20230128	Sunny	Moderate	Mid-Ebb	Middle	5.85	17:33	9.17	8.22	33.22	21.36	5.0	4
CR2	20230128	Sunny	Moderate	Mid-Ebb	Middle	5.85	17:33	9.09	8.28	33.37	21.37	5.0	4
CR2	20230128	Sunny	Moderate	Mid-Ebb	Bottom	10.7	17:32	9.2	8.26	33.27	21.27	5.1	6
CR2	20230128	Sunny	Moderate	Mid-Ebb	Bottom	10.7	17:32	9.13	8.31	33.34	21.39	5.0	7
F1A	20230128	Sunny	Moderate	Mid-Ebb	Surface	1	17:01	9.36	8.25	32.05	21.27	4.1	3
F1A	20230128	Sunny	Moderate	Mid-Ebb	Surface	1	17:01	9.35	8.31	32.17	21.2	4.9	4
F1A	20230128	Sunny	Moderate	Mid-Ebb	Middle	4.45	17:00	9.33	8.22	32.01	21.23	4.4	5
F1A	20230128	Sunny	Moderate	Mid-Ebb	Middle	4.45	17:00	9.25	8.24	32.12	21.29	4.4	6
F1A	20230128	Sunny	Moderate	Mid-Ebb	Bottom	7.9	16:59	9.23	8.31	32.13	21.27	4.6	2
F1A	20230128	Sunny	Moderate	Mid-Ebb	Bottom	7.9	16:59	9.39	8.32	32.09	21.19	4.9	4
H1	20230128	Sunny	Moderate	Mid-Ebb	Surface	1	17:25	9.19	8.18	33.66	21.14	3.2	11
H1	20230128	Sunny	Moderate	Mid-Ebb	Surface	1	17:25	9.25	8.2	33.68	21.2	3.4	13
H1	20230128	Sunny	Moderate	Mid-Ebb	Middle	4.35	17:24	9.16	8.24	33.79	21.26	3.5	9
H1	20230128	Sunny	Moderate	Mid-Ebb	Middle	4.35	17:24	9.13	8.25	33.77	21.16	3.6	7
H1	20230128	Sunny	Moderate	Mid-Ebb	Bottom	7.7	17:23	9.13	8.2	33.66	21.1	3.9	8
H1	20230128	Sunny	Moderate	Mid-Ebb	Bottom	7.7	17:23	9.26	8.23	33.8	21.12	4.0	6
M1	20230128	Sunny	Moderate	Mid-Ebb	Surface	1	17:24	8.66	8.26	32.36	21.15	4.6	10
M1	20230128	Sunny	Moderate	Mid-Ebb	Surface	1	17:24	8.76	8.26	32.4	21.15	5.4	11
M1	20230128	Sunny	Moderate	Mid-Ebb	Middle	4.9	17:23	8.7	8.23	32.35	21.1	5.7	3
M1	20230128	Sunny	Moderate	Mid-Ebb	Middle	4.9	17:23	8.72	8.26	32.42	21.22	5.0	5
M1	20230128	Sunny	Moderate	Mid-Ebb	Bottom	8.8	17:22	8.75	8.27	32.24	21.25	6.0	9
M1	20230128	Sunny	Moderate	Mid-Ebb	Bottom	8.8	17:22	8.66	8.29	32.23	21.17	5.2	16
B1	20230130	Sunny	Moderate	Mid-Ebb	Surface	1	09:30	9.23	8.29	32.46	21.4	3.4	4
B1	20230130	Sunny	Moderate	Mid-Ebb	Surface	1	09:30	9.13	8.34	32.38	21.44	3.4	6
B1	20230130	Sunny	Moderate	Mid-Ebb	Bottom	3.8	09:29	9.16	8.32	32.38	21.38	4.1	5
B1	20230130	Sunny	Moderate	Mid-Ebb	Bottom	3.8	09:29	9.17	8.29	32.42	21.5	4.3	6
B2	20230130	Sunny	Moderate	Mid-Ebb	Surface	1	09:16	8.54	8.26	31.6	21.58	3.0	3
B2	20230130	Sunny	Moderate	Mid-Ebb	Surface	1	09:16	8.51	8.28	31.56	21.61	2.7	3
B2	20230130	Sunny	Moderate	Mid-Ebb	Bottom	4.1	09:15	8.51	8.21	31.53	21.65	3.1	6
B2	20230130	Sunny	Moderate	Mid-Ebb	Bottom	4.1	09:15	8.55	8.24	31.7	21.62	2.8	5
B3	20230130	Sunny	Moderate	Mid-Ebb	Surface	1	09:53	9.43	8.25	31.31	21.29	3.8	4
B3	20230130	Sunny	Moderate	Mid-Ebb	Surface	1	09:53	9.48	8.27	31.33	21.3	3.8	4
B3	20230130	Sunny	Moderate	Mid-Ebb	Bottom	4.3	09:52	9.52	8.26	31.31	21.33	4.3	4
B3	20230130	Sunny	Moderate	Mid-Ebb	Bottom	4.3	09:52	9.58	8.26	31.3	21.23	3.9	4
B4	20230130	Sunny	Moderate	Mid-Ebb	Surface	1	09:39	8.73	8.25	31.08	21.24	4.5	7
B4	20230130	Sunny	Moderate	Mid-Ebb	Surface	1	09:39	8.75	8.2	31.02	21.19	4.5	5

Turbidty (NTU) Date Location Weather Sea Condition Tidal Water Level Depth (m) Time DO (mg/L) pН Sal (ppt) SS (mg/L) Temp (°C) (YYYYMMDD) Note 1 3.9 4.6 Β4 20230130 Sunny Moderate Mid-Ebb Bottom 09:38 8.81 8.2 31.11 21.36 6 3.9 B4 20230130 Moderate Mid-Ebb 09:38 8.77 8.21 31.09 21.17 5.1 4 Sunny Bottom 20230130 6.4 C1A Moderate Mid-Ebb Surface 1 08:02 9.58 8.33 32.4 21.32 4 Sunny 21.18 6.3 C1A 20230130 Sunny Moderate Mid-Ebb Surface 1 08:02 9.51 8.34 32.58 6 6.8 20230130 Moderate Mid-Ebb 4.7 8.29 21.22 C1A Sunny Middle 08:01 9.45 32.47 4 20230130 Moderate Mid-Ebb 4.7 21.39 6.8 4 C1A Middle 08:01 9.6 8.36 32.64 Sunny 6.8 3 C1A 20230130 Sunny Moderate Mid-Ebb Bottom 8.4 08:00 9.44 8.29 32.57 21.38 7.1 4 C1A 20230130 Moderate Mid-Ebb 8.4 9.52 8.29 32.57 21.25 Sunny Bottom 08:00 5.6 9 C2A 20230130 Moderate Mid-Ebb Surface 1 08:43 9.26 8.25 31.4 21.5 Sunny 5.7 C2A 20230130 Sunny Moderate Mid-Ebb Surface 1 08:43 9.37 8.28 31.42 21.49 6 5.8 5.8 C2A 20230130 Moderate Mid-Ebb Middle 08:42 9.43 8.21 31.39 21.43 4 Sunny C2A 20230130 Moderate 21.39 6.0 4 Mid-Ebb Middle 5.8 08:42 9.35 8.25 31.46 Sunny C2A 20230130 Sunny Moderate Mid-Ebb Bottom 10.6 08:41 9.28 8.23 31.36 21.51 5.9 4 C2A 20230130 Mid-Ebb 10.6 9.41 21.49 6.1 4 Moderate 08:41 8.26 31.33 Sunny Bottom 5 CR1 20230130 Moderate Mid-Ebb Surface 1 08:31 9.32 8.31 31.18 21.56 4.4 Sunny 3 CR1 20230130 Sunny Moderate Mid-Ebb Surface 1 08:31 9.29 8.33 31.16 21.61 4.1 9 CR1 20230130 Moderate Mid-Ebb Middle 6.8 08:30 9.21 8.27 31.22 21.54 4.7 Sunny CR1 20230130 Moderate 6.8 21.52 4.8 7 Mid-Ebb Middle 08:30 9.31 8.3 31.32 Sunnv CR1 20230130 Sunny Moderate Mid-Ebb Bottom 12.6 08:29 9.21 8.3 31.14 21.5 5.6 6 CR1 9.33 8.31 21.55 5.1 6 20230130 Moderate Mid-Ebb 12.6 08:29 31.16 Sunny Bottom 3.3 CR2 20230130 Moderate 8.35 21.61 6 Mid-Ebb Surface 08:21 8.24 31.8 Sunny 1 CR2 3.3 5 20230130 Sunny Moderate Mid-Ebb Surface 1 08:21 8.39 8.22 31.84 21.56 6 CR2 20230130 Moderate Mid-Ebb Middle 5.5 08:20 8.42 8.24 31.85 21.58 3.6 Sunny CR2 3.6 7 20230130 Moderate Mid-Ebb Middle 5.5 08:20 8.42 8.24 31.74 21.42 Sunny 4.0 CR2 20230130 Sunny Moderate Mid-Ebb Bottom 10 08:19 8.49 8.23 31.94 21.4 6 CR2 3.7 9 20230130 Moderate Mid-Ebb 10 08:19 8.45 8.24 31.86 21.55 Sunnv Bottom 4.7 F1A 20230130 Moderate Mid-Ebb Surface 1 09:16 9.46 8.21 31.45 21.35 4 Sunny 21.38 5.1 3 F1A 20230130 Sunny Moderate Mid-Ebb Surface 1 09:16 9.47 8.22 31.28 20230130 Moderate 8.22 21.46 5.5 4 F1A Mid-Ebb Middle 4.15 09:15 9.46 31.38 Sunny 5.6 6 F1A 20230130 Moderate Mid-Ebb 4.15 09:15 9.51 8.25 31.38 21.32 Sunny Middle 20230130 7.3 5.6 2 F1A Moderate Mid-Ebb Bottom 09:14 9.5 8.2 31.27 21.4 Sunny 21.44 5.9 3 F1A 20230130 Moderate Mid-Ebb Bottom 7.3 09:14 9.56 8.24 31.45 Sunny 5 4.5 H1 20230130 Moderate Mid-Ebb Surface 1 08:13 9.02 8.29 30.86 21.58 Sunny H1 4.2 7 20230130 Sunny Moderate Mid-Ebb Surface 1 08:13 9.09 8.33 30.79 21.71 H1 20230130 8.32 21.72 4.5 3 Moderate Mid-Ebb Middle 4.15 08:12 9.03 30.79 Sunny 4.5 4 H1 20230130 Mid-Ebb 4.15 8.97 8.34 21.58 Sunny Moderate Middle 08:12 30.78 H1 20230130 8.33 21.73 4.7 8 Sunny Moderate Mid-Ebb Bottom 7.3 08:11 8.98 30.8

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	20230130	Sunny	Moderate	Mid-Ebb	Bottom	7.3	08:11	9.02	8.34	30.83	21.63	4.0	6
M1	20230130	Sunny	Moderate	Mid-Ebb	Surface	1	08:54	9.55	8.23	32.47	21.53	4.2	5
M1	20230130	Sunny	Moderate	Mid-Ebb	Surface	1	08:54	9.63	8.26	32.42	21.46	4.6	7
M1	20230130	Sunny	Moderate	Mid-Ebb	Middle	4.4	08:53	9.68	8.2	32.57	21.52	4.7	3
M1	20230130	Sunny	Moderate	Mid-Ebb	Middle	4.4	08:53	9.53	8.27	32.6	21.47	4.6	4
M1	20230130	Sunny	Moderate	Mid-Ebb	Bottom	7.8	08:52	9.57	8.23	32.41	21.47	4.6	8
M1	20230130	Sunny	Moderate	Mid-Ebb	Bottom	7.8	08:52	9.61	8.26	32.38	21.57	4.8	6
B1	20230130	Sunny	Moderate	Mid-Flood	Surface	1	11:32	8.79	8.27	30.82	21.73	3.4	3
B1	20230130	Sunny	Moderate	Mid-Flood	Surface	1	11:32	8.85	8.24	30.89	21.68	3.7	3
B1	20230130	Sunny	Moderate	Mid-Flood	Bottom	4.5	11:31	8.9	8.3	30.79	21.64	3.6	4
B1	20230130	Sunny	Moderate	Mid-Flood	Bottom	4.5	11:31	8.84	8.25	30.76	21.72	4.2	6
B2	20230130	Sunny	Moderate	Mid-Flood	Surface	1	11:45	8.56	8.25	30.75	21.58	3.2	5
B2	20230130	Sunny	Moderate	Mid-Flood	Surface	1	11:45	8.55	8.29	30.94	21.57	3.3	4
B2	20230130	Sunny	Moderate	Mid-Flood	Bottom	3.5	11:44	8.53	8.24	30.77	21.73	3.8	5
B2	20230130	Sunny	Moderate	Mid-Flood	Bottom	3.5	11:44	8.49	8.32	30.94	21.61	3.7	4
B3	20230130	Sunny	Moderate	Mid-Flood	Surface	1	11:23	8.41	8.29	32.18	21.33	4.3	5
B3	20230130	Sunny	Moderate	Mid-Flood	Surface	1	11:23	8.57	8.31	32.12	21.35	4.5	6
B3	20230130	Sunny	Moderate	Mid-Flood	Bottom	4.1	11:22	8.54	8.26	31.93	21.39	4.1	4
B3	20230130	Sunny	Moderate	Mid-Flood	Bottom	4.1	11:22	8.57	8.34	32.19	21.34	4.0	6
B4	20230130	Sunny	Moderate	Mid-Flood	Surface	1	11:33	9.3	8.29	30.94	21.39	4.8	5
B4	20230130	Sunny	Moderate	Mid-Flood	Surface	1	11:33	9.19	8.3	30.86	21.38	4.7	7
B4	20230130	Sunny	Moderate	Mid-Flood	Bottom	4	11:32	9.32	8.34	30.82	21.34	5.7	2
B4	20230130	Sunny	Moderate	Mid-Flood	Bottom	4	11:32	9.17	8.31	30.73	21.46	5.2	2
C1A	20230130	Sunny	Moderate	Mid-Flood	Surface	1	11:12	8.91	8.23	30.64	21.3	5.4	5
C1A	20230130	Sunny	Moderate	Mid-Flood	Surface	1	11:12	9.07	8.25	30.85	21.29	5.1	5
C1A	20230130	Sunny	Moderate	Mid-Flood	Middle	5.45	11:11	9.1	8.24	30.79	21.37	5.2	4
C1A	20230130	Sunny	Moderate	Mid-Flood	Middle	5.45	11:11	8.94	8.27	30.77	21.4	5.4	5
C1A	20230130	Sunny	Moderate	Mid-Flood	Bottom	9.9	11:10	8.99	8.23	30.75	21.4	5.6	4
C1A	20230130	Sunny	Moderate	Mid-Flood	Bottom	9.9	11:10	8.96	8.25	30.72	21.29	5.6	5
C2A	20230130	Sunny	Moderate	Mid-Flood	Surface	1	11:12	9.44	8.26	31.5	21.6	5.5	5
C2A	20230130	Sunny	Moderate	Mid-Flood	Surface	1	11:12	9.32	8.3	31.53	21.54	5.7	6
C2A	20230130	Sunny	Moderate	Mid-Flood	Middle	5.8	11:11	9.3	8.25	31.38	21.61	6.0	5
C2A	20230130	Sunny	Moderate	Mid-Flood	Middle	5.8	11:11	9.42	8.24	31.59	21.5	6.0	9
C2A	20230130	Sunny	Moderate	Mid-Flood	Bottom	10.6	11:10	9.36	8.24	31.55	21.6	6.6	8
C2A	20230130	Sunny	Moderate	Mid-Flood	Bottom	10.6	11:10	9.41	8.27	31.38	21.6	6.3	7
CR1	20230130	Sunny	Moderate	Mid-Flood	Surface	1	12:34	8.57	8.34	31.27	21.44	4.6	6
CR1	20230130	Sunny	Moderate	Mid-Flood	Surface	1	12:34	8.46	8.35	31.26	21.54	4.9	6

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)
CR1	20230130	Sunny	Moderate	Mid-Flood	Middle	6.45	12:33	8.57	8.31	31.08	21.58	4.9	4
CR1	20230130	Sunny	Moderate	Mid-Flood	Middle	6.45	12:33	8.49	8.32	31.29	21.45	4.8	5
CR1	20230130	Sunny	Moderate	Mid-Flood	Bottom	11.9	12:32	8.47	8.31	31.02	21.46	4.9	7
CR1	20230130	Sunny	Moderate	Mid-Flood	Bottom	11.9	12:32	8.5	8.34	31.07	21.54	5.3	6
CR2	20230130	Sunny	Moderate	Mid-Flood	Surface	1	12:22	8.4	8.28	30.99	21.33	4.9	8
CR2	20230130	Sunny	Moderate	Mid-Flood	Surface	1	12:22	8.55	8.3	31.06	21.43	5.0	5
CR2	20230130	Sunny	Moderate	Mid-Flood	Middle	5.5	12:21	8.45	8.23	31.04	21.32	5.2	7
CR2	20230130	Sunny	Moderate	Mid-Flood	Middle	5.5	12:21	8.5	8.24	31	21.33	4.9	5
CR2	20230130	Sunny	Moderate	Mid-Flood	Bottom	10	12:20	8.53	8.27	30.94	21.38	5.5	5
CR2	20230130	Sunny	Moderate	Mid-Flood	Bottom	10	12:20	8.42	8.23	30.91	21.35	5.4	6
F1A	20230130	Sunny	Moderate	Mid-Flood	Surface	1	11:58	9	8.23	30.76	21.64	3.7	6
F1A	20230130	Sunny	Moderate	Mid-Flood	Surface	1	11:58	9.15	8.24	30.49	21.6	3.7	5
F1A	20230130	Sunny	Moderate	Mid-Flood	Middle	3.9	11:57	9.11	8.23	30.59	21.47	4.2	6
F1A	20230130	Sunny	Moderate	Mid-Flood	Middle	3.9	11:57	9.15	8.26	30.64	21.6	4.0	6
F1A	20230130	Sunny	Moderate	Mid-Flood	Bottom	6.8	11:56	9.08	8.27	30.77	21.58	4.1	6
F1A	20230130	Sunny	Moderate	Mid-Flood	Bottom	6.8	11:56	9.06	8.3	30.78	21.58	4.2	4
H1	20230130	Sunny	Moderate	Mid-Flood	Surface	1	12:10	9.47	8.35	30.78	21.68	3.3	6
H1	20230130	Sunny	Moderate	Mid-Flood	Surface	1	12:10	9.34	8.36	30.79	21.54	3.7	5
H1	20230130	Sunny	Moderate	Mid-Flood	Middle	4.1	12:09	9.38	8.33	30.7	21.63	3.4	5
H1	20230130	Sunny	Moderate	Mid-Flood	Middle	4.1	12:09	9.32	8.34	30.76	21.57	3.4	5
H1	20230130	Sunny	Moderate	Mid-Flood	Bottom	7.2	12:08	9.4	8.29	30.77	21.68	4.1	5
H1	20230130	Sunny	Moderate	Mid-Flood	Bottom	7.2	12:08	9.43	8.31	30.75	21.63	4.0	6
M1	20230130	Sunny	Moderate	Mid-Flood	Surface	1	12:20	9.02	8.22	31.46	21.64	3.5	6
M1	20230130	Sunny	Moderate	Mid-Flood	Surface	1	12:20	9.06	8.28	31.44	21.63	3.7	8
M1	20230130	Sunny	Moderate	Mid-Flood	Middle	3.95	12:19	8.87	8.22	31.28	21.65	3.6	4
M1	20230130	Sunny	Moderate	Mid-Flood	Middle	3.95	12:19	9.04	8.25	31.48	21.69	3.9	6
M1	20230130	Sunny	Moderate	Mid-Flood	Bottom	6.9	12:18	8.88	8.22	31.36	21.7	4.3	5
M1	20230130	Sunny	Moderate	Mid-Flood	Bottom	6.9	12:18	9	8.29	31.38	21.78	3.9	8

Impact Water Quality Monitoring Data

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

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詞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減指的運作 quality management system (see joint IAF-ILAC-ISO Companie), (見國際認可論權、國際實驗所認可合作組織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認可合作組織及國際標準化組織的聯合公報)。 實施一套實驗所質量管理體系(見國際認可論還、關際實驗所認可合作組織及國際標準化組織的聯合公報)。

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



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

Test Report No. Date of Issue Page No. : R-BC010055 : 17 January 2023 : 1 of 2

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

Acuity Sustainability Consulting Limited

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

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

Name of Equipment :	YSI ProDSS (Multi-Parameters)	
Manufacturer :	YSI (a xylem brand)	
Serial Number :	22C106561	
Date of Received :	12 January 2023	
Date of Calibration :	17 January 2023	
Date of Next Calibration :	16 April 2023	
Request No. :	D-BC010055	

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

<u>Test Parameter</u>	Reference Method
pH value	APHA 21e 4500 H <sup>+</sup>
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	4.18	0.18	Satisfactory
7.42	7.58	0.16	Satisfactory
10.01	10.14	0.13	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
10	9.6	-0.4	Satisfactory
23	23.4	0.4	Satisfactory
33	33.2	0.2	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	9.99	-0.10	Satisfactory
20	20.29	1.45	Satisfactory
30	31.38	4.60	Satisfactory

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

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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

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

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

Test Report No.	:R-BC010055		
Date of Issue	: 17 January 2023		
Page No.	:2 of 2		

#### (4) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result
9.00	9.03	0.03	Satisfactory
5.88	6.07	0.19	Satisfactory
2.65	3.07	0.42	Satisfactory
1.14	1.31	0.17	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	0.16		Satisfactory
10	9.67	-3.3	Satisfactory
20	18.45	-7.8	Satisfactory
100	92.80	-7.2	Satisfactory
800	768.00	-4.0	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 <sup>+</sup>	
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 ( % )

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AUTHORIZED SIGNATORY:

LEE Chun-ning

Assistant Manager (Chemical Testing)

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

Test Report No.	:
Date of Issue	
Page No.	

: 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.
Date of Issue
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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



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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:	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	ube	SFL	Fast		500	94.1	-0.0±1.4
					1000	94.0	Ref
				2000	93.6	-0.2 ±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	$\pm$ 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

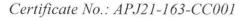
Setting of Unit-under-test (UUT)			Appl	Applied value		IEC 61672 Class 1			
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB		
					31.5	94.4	±2.0		
					63	94.3	±1.5		
				125	94.2	±1.5			
25-124	dB	SPL	Fast	94	250	94.1	±1.4		
23-124	uБ	SPL	Fast	Tasi	Tasi	94	500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

Setti	ing of Ur	nit-under-t	est (UUT)	Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting 7		Time Weighting	Level, dB	Level, dB Frequency, Hz		Specification, dB
				94	31.5	91.4	-3.0±2.0
					63	93.5	-0.8±1.5
					125	94.0	-0.2±1.5
25-124	dBC	SPL	Fast		250	94.1	$-0.0 \pm 1.4$
23-124	ube		rast		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. 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:	04, 09, 16, 26, 30 January 2023 (Daytime)
	04&05, 09&10, 16&17, 26&27, 30&31 January 2023 (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
04 Jan 2023	13:33	-	14:03	Cloudy	59.4	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724243)
04.1	19:13	-	19:18		46.5	GYAN 071 (G 1	D: NO 75
04 Jan 2023	20:23	-	20:28	Fine	43.0	SVAN 971 (Serial	Rion NC-75 (No.34724243)
2025	21:08	-	21:13		41.3	No. 96062)	(100.34724243)
05 Jan	1:23	-	1:28		39.8	SVAN 971 (Serial	Rion NC-75
2023	3:13	-	3:18	Fine	41.4	No. 96062)	(No.34724243)
2025	5:18	-	5:23		39.7	NO. 90002)	(1N0.34724243)
09 Jan 2023	13:04	-	13:34	Cloudy	59.6	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724243)
00 I	19:24	-	19:29		44.9		D: NO 75
09 Jan 2023	20:24	-	20:29	Fine	42.3	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724243)
2023	21:24	-	21:29		41.0		
10 I.u.	1:24	-	1:29		39.3	$\mathbf{GVAN} = 071 (\mathbf{G} \cdot \mathbf{n}^2 \cdot 1)$	D' NO 75
10 Jan 2023	3:14	-	3:19	Fine	41.5	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724244)
2025	5:09	-	5:14		39.7		(110.34724244)
16 Jan 2023	13:09	-	13:39	Cloudy	62.4	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724243)
16 Jan	19:29	-	19:34		40.6	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724243)
2023	20:19	-	20:24	Fine	42.6		
2025	21:19	-	21:24		42.1		
17 Jan	1:24	-	1:29		41.2	SVAN 071 (Seriel	Dian NC 75
2023	3:24	-	3:29	Fine	43.1	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724243)
2025	5:39	-	5:44		37.9	NO. 90002)	(10.34724243)
26 Jan 2023	13:16	-	13:46	Fine	48.3	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724243)
	19:21	-	19:26		44.6		D: NO 75
26 Jan	20:06	-	20:11	Fine	41.9	SVAN 971 (Serial	Rion NC-75
2023	21:16	-	21:21		39.3	No. 96062)	(No.34724243)
27 Jan	1:06	-	1:11		36.3	QUANO71 (Comint	Dian NC 75
27 Jan 2023	3:11	-	3:16	Fine	37.8	SVAN 971 (Serial	Rion NC-75
2023	5:16	-	5:21		39.7	No. 96062)	(No.34724243)
30 Jan 2023	13:16	-	13:46	Sunny	60.8	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724243)

Date	Start time		End time	Weather	L <sub>eq 30min</sub> dB(A) / L <sub>eq 5min</sub> dB(A)	Sound Level Meter Used	Calibrator Used
30 Jan 2023	19:26	-	19:31	Fine	44.0	SVAN 971 (Serial	Rion NC-75 (No.34724243)
	20:21	1	20:26		42.9	No. 96062)	
	21:36	1	21:41		40.1		
21 Jan	1:21	1	1:26	Fine	38.5	SVAN 971 (Serial No. 96062)	Rion NC-75 (No.34724243)
31 Jan 2023	3:11	1	3:16		38.6		
2025	5:11	-	5:16		40.5		

Location:	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 2 (M2 / N_S2)
Monitoring date:	04, 09, 16, 26, 30 January 2023 (Daytime)
	04&05, 09&10, 16&17, 26&27, 30&31 January 2023 (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
04 Jan 2023	13:41	-	14:11	Cloudy	56.2	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34724243)
04 1	19:11	-	19:16		45.5		Diam NC 75
04 Jan 2023	20:16	-	20:21	Fine	46.4	SVAN 971 (Serial	Rion NC-75
2025	21:11	-	21:16		50.7	No. 103482)	(No.34724243)
05 Jan	1:16	1	1:21		43.4	SVAN 071 (Seriel	Rion NC-75
2023	3:06	1	3:11	Fine	42.9	SVAN 971 (Serial No. 103482)	(No.34724243)
2025	5:11	-	5:16		43.3	NO. 103462)	(10.34724243)
09 Jan 2023	13:17	-	13:47	Cloudy	55.7	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34724243)
00 I	19:22	-	19:27		48.2		D: NG 75
09 Jan	20:27	-	20:32	Fine	50.5	SVAN 971 (Serial	Rion NC-75 (No.34724243)
2023	21:22	-	21:27		46.8	No. 103482)	
10.1	1:22	-	1:27		46.4		Rion NC-75 (No.34724243)
10 Jan	3:17	-	3:22	Fine	48.6	SVAN 971 (Serial No. 103482)	
2023	5:07	-	5:12		46.8		
16 Jan 2023	13:20	-	13:50	Cloudy	58.0	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34724243)
16 Jan	19:15	-	19:20	Fine	48.7	SVAN 971 (Serial	Rion NC-75 (No.34724243)
16 Jan 2023	20:10	-	20:15		50.0		
2025	21:25	-	21:30		46.3	No. 103482)	(100.54724245)
17 I.m	1:25	-	1:30		47.3	SVAN 071 (Seriel	Diam NC 75
17 Jan 2023	3:25	-	3:30	Fine	48.7	SVAN 971 (Serial	Rion NC-75
2025	5:25	-	5:30		44.8	No. 103482)	(No.34724243)
26 Jan 2023	13:19	-	13:49	Fine	50.0	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34724243)
	19:34	-	19:39		48.4		D: NO 75
26 Jan	20:29	-	20:34	Fine	48.2	SVAN 971 (Serial	Rion NC-75
2023	21:34	-	21:39	1	47.6	No. 103482)	(No.34724243)
07 I.a.	1:19	-	1:24		47.4	QUANO71 (Contra	Dian NC 75
27 Jan 2023	3:09	-	3:14	Fine	51.2	SVAN 971 (Serial No. 103482)	Rion NC-75
2023	5:14	-	5:19		51.8		(No.34724243)
30 Jan 2023	13:31	-	14:01	Sunny	57.3	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34724243)

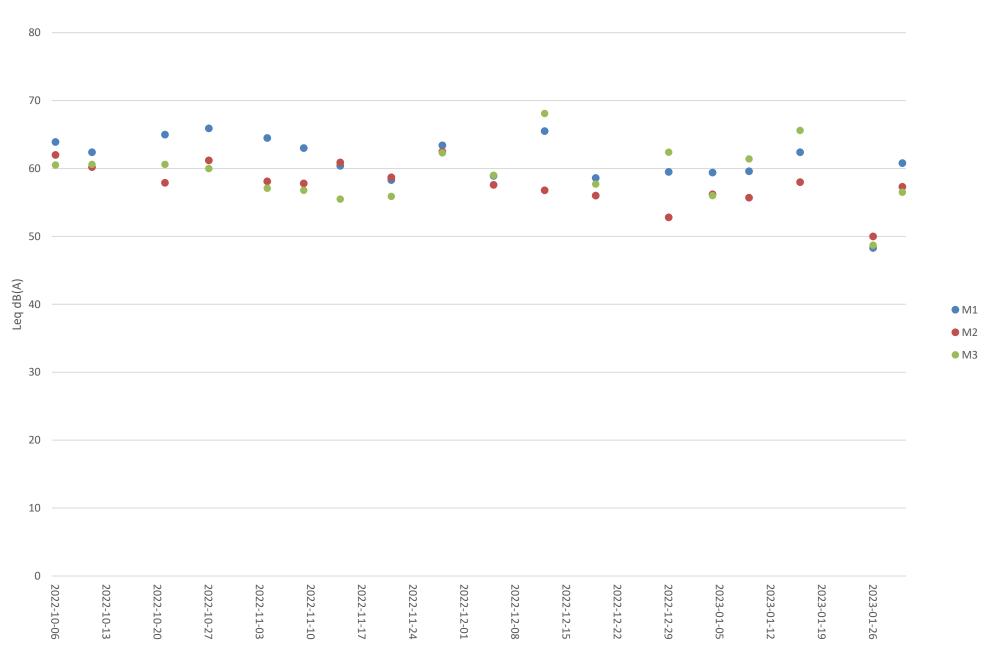
Date	Start time		End time	Weather	L <sub>eq 30min</sub> dB(A) / L <sub>eq 5min</sub> dB(A)	Sound Level Meter Used	Calibrator Used	
30 Jan	19:26	-	19:31		48.2	SVAN 971 (Serial	Rion NC-75	
2023	20:46	1	20:51	Fine	45.4	No. 103482)	(No.34724243)	
2023	21:46	1	21:51		45.6	NO. 103462)	(10.34724243)	
31 Jan	1:26	1	1:31		47.5	SVAN 971 (Serial	D' NG 75	
2023	3:16	1	3:21	Fine	48.8	No. 103482)	Rion NC-75 (No.34724243)	
2023	5:21	-	5:26		48.0	INO. 103462)	(10.34724243)	

Location:	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 3 (M3 / N_S3)
Monitoring date:	04, 09, 16, 26, 30 January 2023 (Daytime)
	04&05, 09&10, 16&17, 26&27, 30&31 January 2023 (Evening & Night time)
Parameter :	Leq 30min (Daytime), Leq 5min (Evening & Night time)
Noise source other than construction activities from the Project:	Air-conditioner

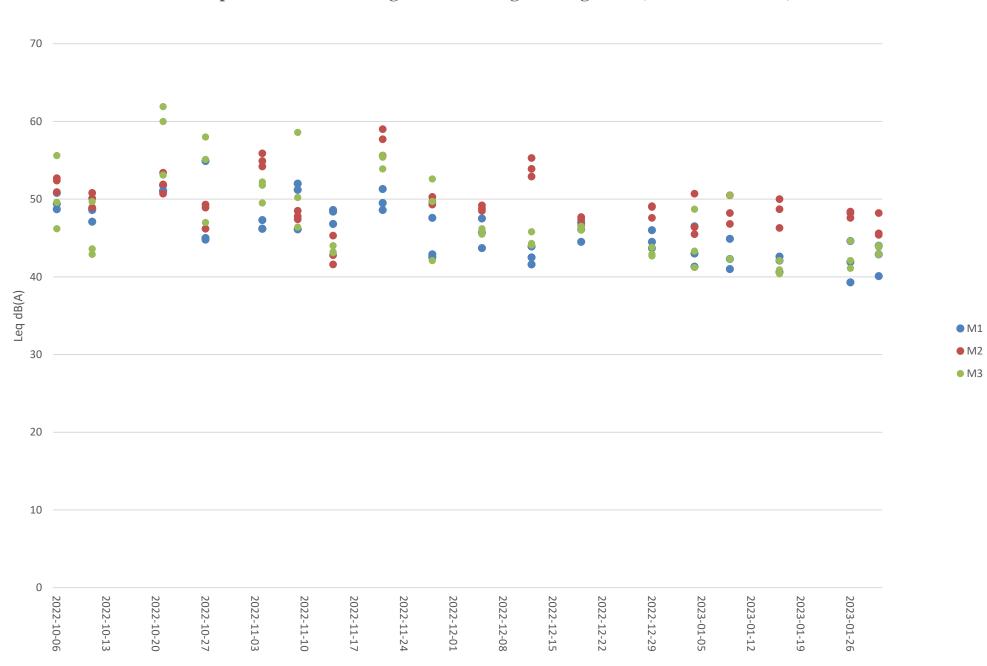
Noise Monitoring data:

Date	Start time		End time	Weather	$\frac{L_{eq 30min} dB(A)}{L_{eq 5min} dB(A)}$	Sound Level Meter Used	Calibrator Used	
04 Jan 2023	13:40	-	14:10	Cloudy	56.0	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724243)	
04.1	19:10	-	19:15		48.7	GYAN 071 (G 1	D: NG 75	
04 Jan 2023	20:20	-	20:25	Fine	43.3	SVAN 971 (Serial	Rion NC-75	
2025	21:05	-	21:10		41.2	No. 96063)	(No.34724243)	
05 Jan	1:15	-	1:20		46.8	SVAN 971 (Serial	Rion NC-75	
2023	3:10	-	3:15	Fine	41.0	No. 96063)	(No.34724243)	
2025	5:15	-	5:20		42.8	NO. 90003)	(10.34724243)	
09 Jan 2023	13:27	-	13:57	Cloudy	61.4	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724243)	
00 I	19:27	-	19:32		42.3		D: NO 75	
09 Jan 2023	20:12	-	20:17	Fine	50.5	SVAN 971 (Serial	Rion NC-75 (No.34724243)	
2025	21:17	-	21:22		42.3	No. 96063)	(100.34724243)	
10 L.	1:22	-	1:27		43.0	$\mathbf{GVAN} = 071 (\mathbf{G} \cdot \mathbf{n}^2 \cdot 1)$	Rion NC-75	
10 Jan 2023	3:17	-	3:22	Fine	49.4	SVAN 971 (Serial	(No.34724243)	
2023	5:12	-	5:17		43.8	No. 96063)	(1N0.34/24243)	
16 Jan 2023	13:31	-	14:01	Cloudy	65.6	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724243)	
16 Jan	19:11	-	19:16		42.1	SVAN 971 (Serial	D: NG 75	
2023	20:06	-	20:11	Fine	40.9	No. 96063)	Rion NC-75 (No.34724243)	
2025	21:16	-	21:21		40.4	NO. 90003)	(100.34724243)	
17 Jan	1:01	-	1:06		40.7	SVAN 971 (Serial	Rion NC-75	
2023	3:31	-	3:36	Fine	39.0	No. 96063)	(No.34724243)	
2025	5:06	-	5:11		38.0	NO. 90003)	(10.34724243)	
26 Jan 2023	13:23	-	13:53	Fine	48.7	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724243)	
26.1	19:08	-	19:13		42.1		D: NO 75	
26 Jan 2023	20:13	-	20:18	Fine	44.6	SVAN 971 (Serial	Rion NC-75	
2025	21:23	-	21:28		41.1	No. 96063)	(No.34724243)	
27 I.a.:	1:33	-	1:38		36.7	QUANO71 (Comint	Dian NC 75	
27 Jan 2023	3:23	-	3:28	Fine	36.4	SVAN 971 (Serial No. 96063)	Rion NC-75	
2023	5:18	-	5:23		45.6	INU. 90003)	(No.34724243)	
30 Jan 2023	13:38	-	14:08	Sunny	56.5	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724243)	

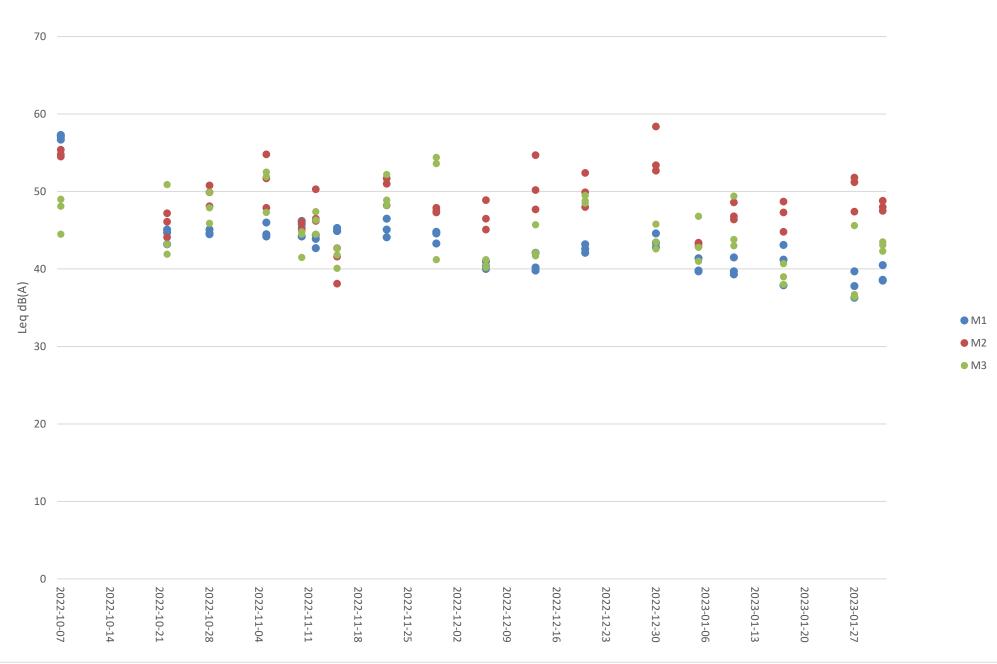
Date	Start time		End time	Weather	$\frac{L_{eq \ 30min}  dB(A)  / }{L_{eq \ 5min}  dB(A)}$	Sound Level Meter Used	Calibrator Used	
30 Jan	19:23	-	19:28		43.8	SVAN 971 (Serial	Rion NC-75	
2023	20:23	1	20:28	Fine	44.0	No. 96063)	(No.34724243)	
2023	21:23	1	21:28		42.9	110. 90003)	(10.34724243)	
31 Jan	1:18	1	1:23		42.3	SVAN 971 (Serial	Rion NC-75	
2023	3:13	1	3:18	Fine	43.5	No. 96063)	(No.34724243)	
2025	5:23	-	5:28		43.1	110. 90003)	(10.34724243)	



# **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 <sup>3</sup> )	(in ,000m <sup>3</sup> )	(in ,000m <sup>3</sup> )	(in ,000m <sup>3</sup>	(in ,000m <sup>3</sup> )	(i	$(n,000m^3)$		(in ,000 kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	(in ,000 m <sup>3</sup> )
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	ect : Integrated Waste Management Facilities, Phase 1									Contract No.: EP/SP/66/12				
		Actual	Quantities of	Inert C&D	Materials Gei	nerated Mon	thly		Actual Quantities of C&D Wastes Generated Monthly				onthly	
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 <sup>3</sup> )	$(in,000m^3)$	$(in,000m^3)$	(in ,000m <sup>3</sup>	(in ,000m <sup>3</sup> )	(1	in ,000m <sup>3</sup> )	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.



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.



Monthly Summary Waste Flow Table for



2022

(year)

Project : In	Integrated Waste Management Facilities, Phase 1									Contract No.: EP/SP/66/12				
		Actual	Quantities of	of Inert C&E	O Materials Ge	enerated Mo	nthly		Actual Quantities of C&D Wastes Generated Monthly				lonthly	
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 <sup>3</sup> )	(in ,000m <sup>3</sup> )	(in ,000m <sup>3</sup> )	(in ,000m <sup>3</sup>	$(in,000m^3)$		$(in,000m^3)$	T	(in ,000 kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	(in ,000 m <sup>3</sup> )
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.



Monthly Summary Waste Flow Table for \_\_\_\_\_



2023

(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 Hard Rock Imported Imported Imported Reused in Paper/ and Large Fill Fill Fill Disposed as Metals Others, e.g. general Total Reused in other cardboard Plastics Month Broken Public fill Sand Rock refuse Projects Public Fill packaging (see Note 2, Chemical Waste Quantity the (see Note Concrete (see Note (see Note (see Note (see Note 5) 5) Generated Contract (see Note (see Note 4) (see Note 3) (see Note 4) 4) 4) 5) 4) 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 ,000L)  $(in,000 \text{ m}^3)$ 24.6728 0 0 24.6728 0 0 0 0 0 0 0 1.3545 0.3150 Jan 0.1365 Feb Mar Apr May Jun 24.6728 0 0 24.6728 0 0 0 1.3545 0 0.3150 0 0 0 0.1365 Sub-total Jul Aug Sep Oct Nov Dec Total 24.6728 0 0 24.6728 0 0 0 1.3545 0 0.3150 0 0 0 0.1365

(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.

# 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 <sup>1</sup> 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 Quali	ity (Regular Monitoring)			
Location	Action Level	Limit Level	Total		
B1	1	1	2		
B2	0	1	1		
B3	2	1	3		
B4	0	1	1		
CR1	1	1	2		
CR2	2	1	3		
F1A	0	1	1		
H1	2	1	3		
S1		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 (I	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	ight 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

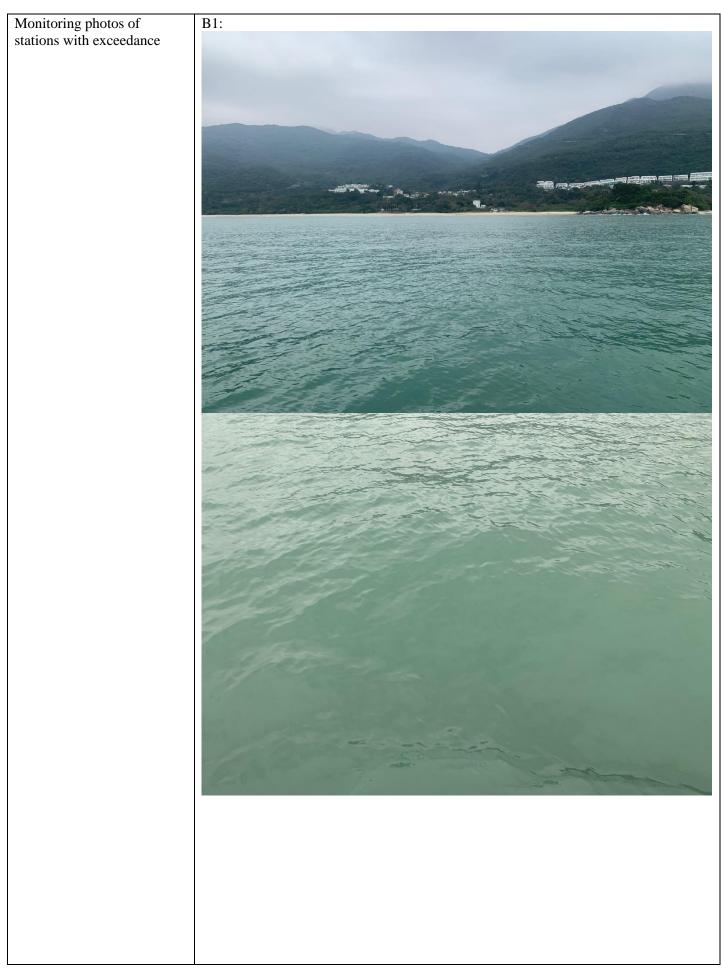
Project	Integrated Waste Managemen	nt Facilities, Phase 1			
Date	04 Jan 2023 (Lab result recei				
Time	09:49 – 11:56 (Mid-Ebb)				
Thic	14:07 - 17:37 (Mid-Flood)				
	Mid-E	bb			
Monitoring Location	B1, B2, B3, B4, H1, M1, CR				
	+ B1 S1	PROPOSED OUTFALL + + + + + + + + + + + + +	•F1A •F1A •C2A Key •C2A Key APROPOSED 132KV SUBMARINE CABLE •C MONITORING STATION •PROPOSED 0UTFALL •PROPOSED OUTFALL •PROPOSED OUTFALL •PROPOSED OUTFALL •PROPOSED OUTFALL •PROPOSED OUTFALL •PROPOSED OUTFALL •PROPOSED OUTFALL •PROPOSED OUTFALL		
			THE IWMF SITE BOUNDARY		
Parameter	Suspended Solid (SS)				
Action & Limit Levels	Action Level	Limit Leve	el		
	$\geq$ 11.6 mg/L (120% of C1A)	$\geq$ 12.6 mg	/L (130% of C1A)		
Measurement Level	Impact Station(s) of	Control Stations	Impact Station(s) without		
	Exceedance		Exceedance		
	15.0 mg/L (B1)	9.7 mg/L (C1A)	7.3 mg/L (F1A)		
	24.3 mg/L (B2)	7.7 mg/L (C2A)			
	19.0 mg/L (B3)				
	18.0 mg/L (B4)				
	23.8 mg/L (H1)				
	17.2 mg/L (M1)				
	17.2 mg/L (CR1)				
	17.2  mg/L (CR2)				
	17.2 mg/2 (C12)				
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 04 Jan 2023 include laying of 900kg underlayer rock at Seawall A seaside CH490 - CH600, installation of Chinese pod at Caissons 52 - 55, laying of 2.5T armour rock at Breakwater A seaside CH1030 - CH1120, remove the surcharge materials from Zone 5 to flat top barge Hong Hong 3133, 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.				
	around Shek Kwu Chau.	on was found to be from S	outneast to Northwest at waters		

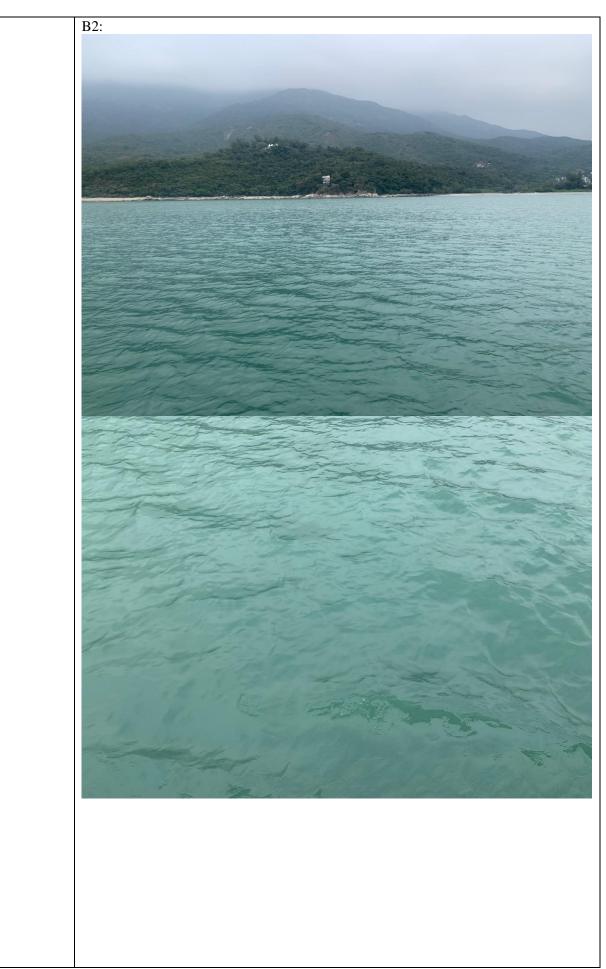
Exceedances of limit level were found B1, B2, B3, B4, H1, M1, CR1 and CR2. B1, B2, B3, B4, H1 and M1 are located at unrelated stream direction (neither upstream nor downstream, far away) to the works location. Exceedances at B1, B2, B3, B4, H1 and M1 are deemed to be unrelated to the Project.

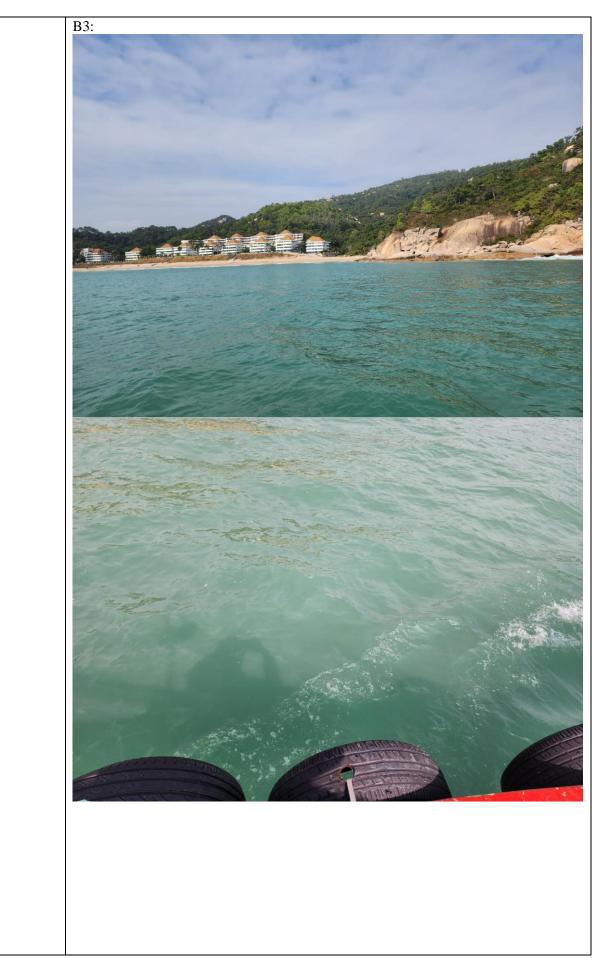
The installation of caisson No.19 was completed on 18 Mar 2021, the reclamation area was enclosed.

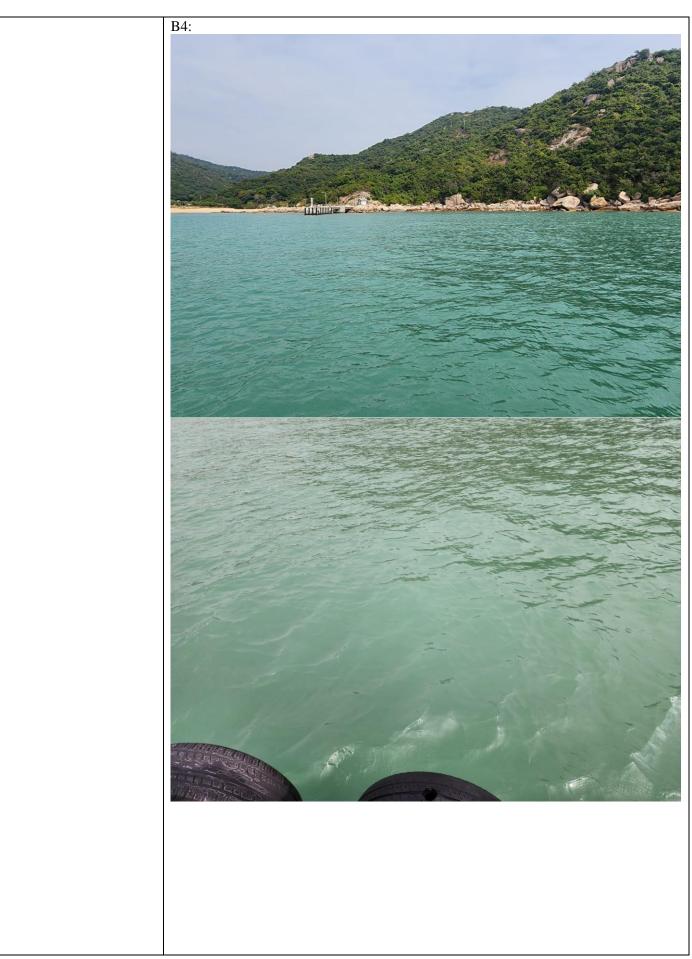
According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was overcast during the sampling event.

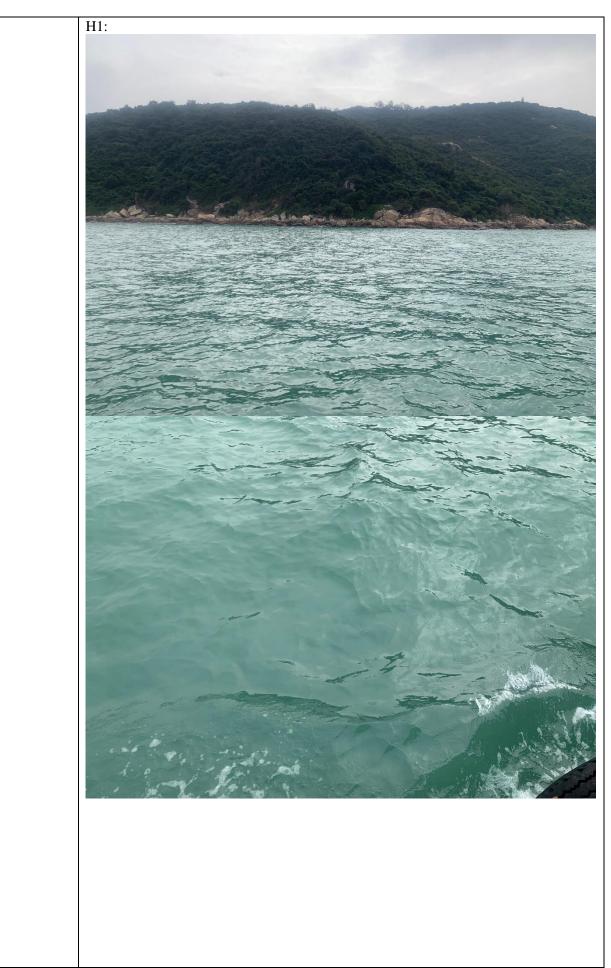
No major observation of improper site practices that contributed to the increase of the suspended solids was recorded during the weekly site inspection on 10 January 2023. After the investigation, the exceedances on 04 January 2023 during ebb tide at B1, B2, B3, B4, H1, M1, CR1 and CR2 are deemed to be unrelated to the Project.

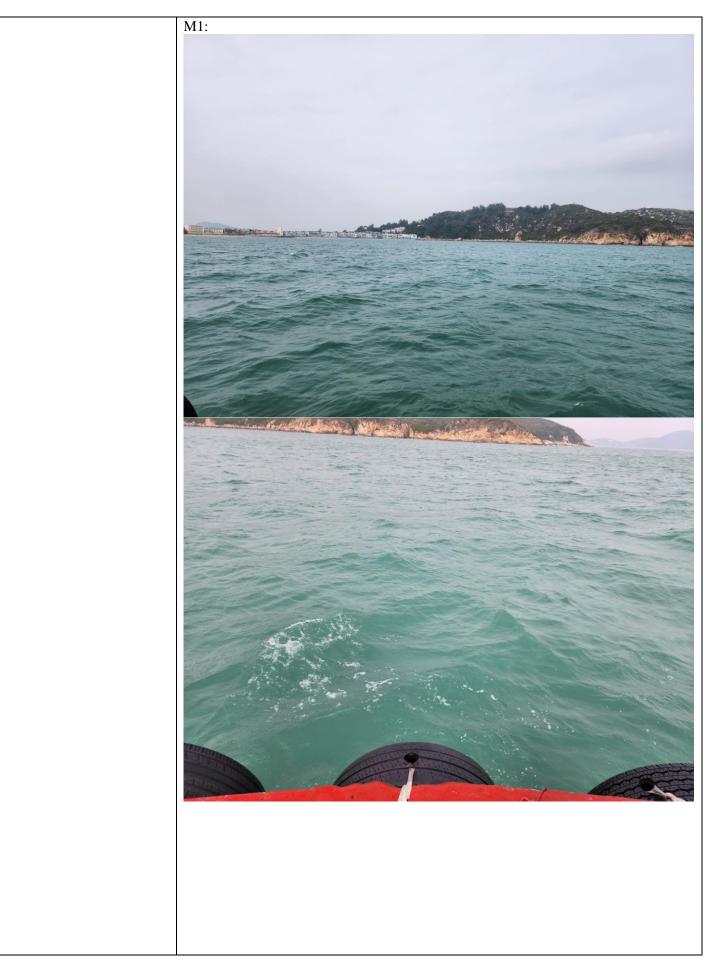


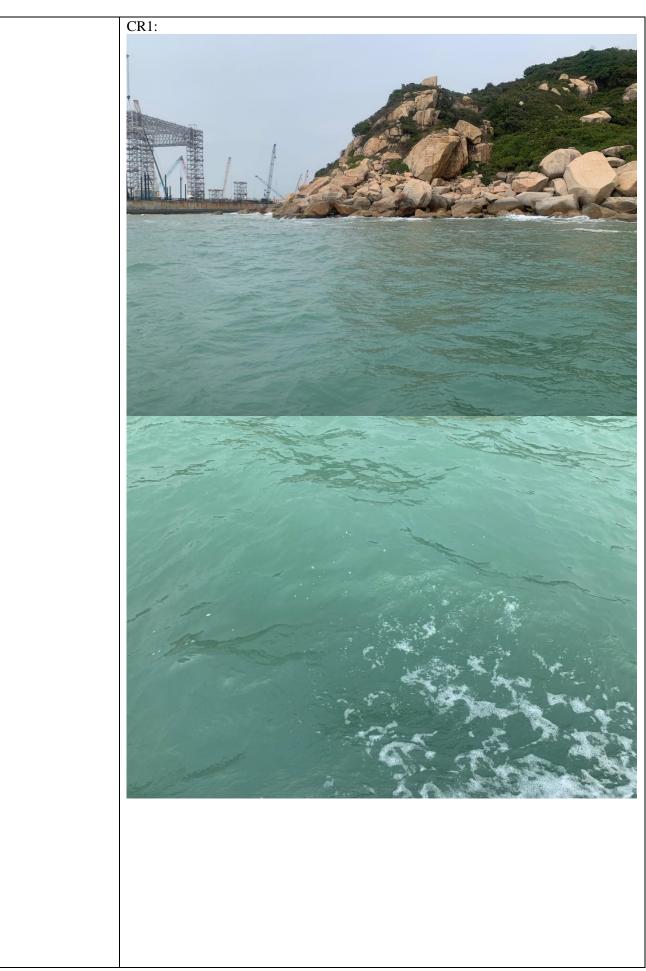


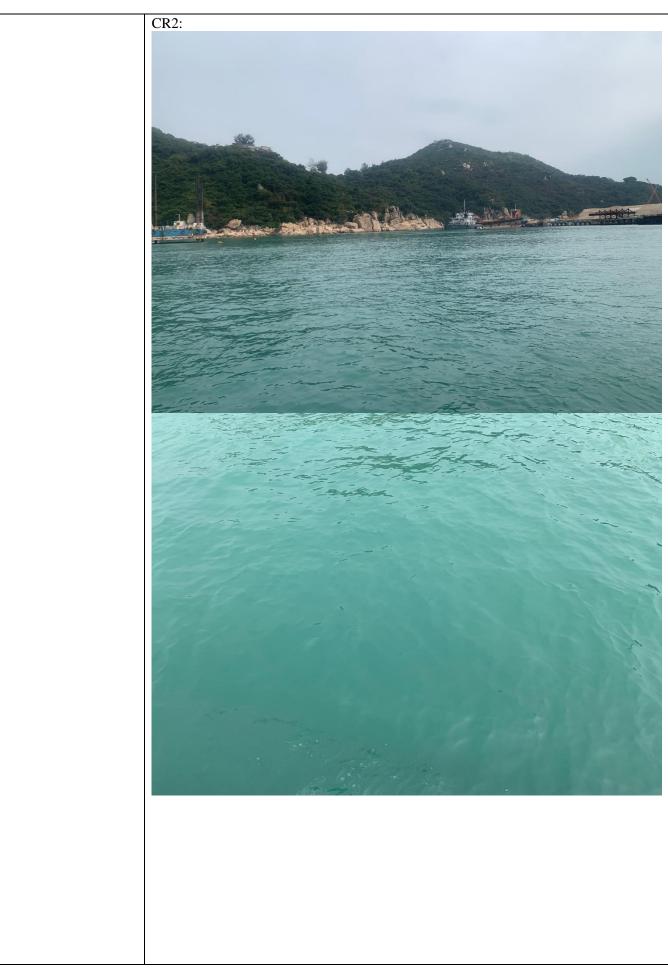






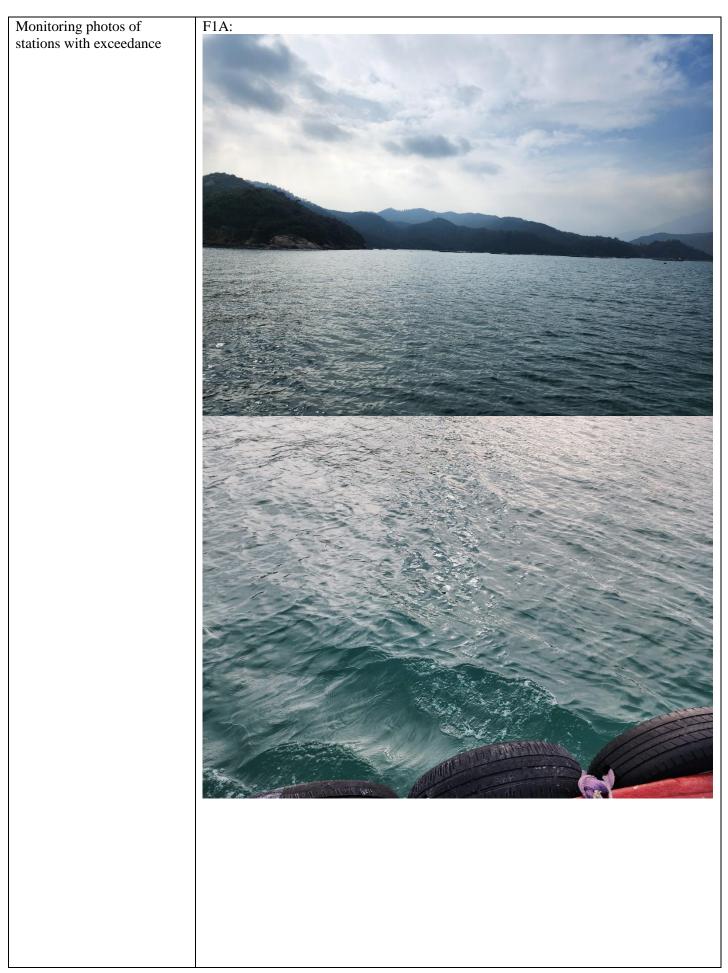


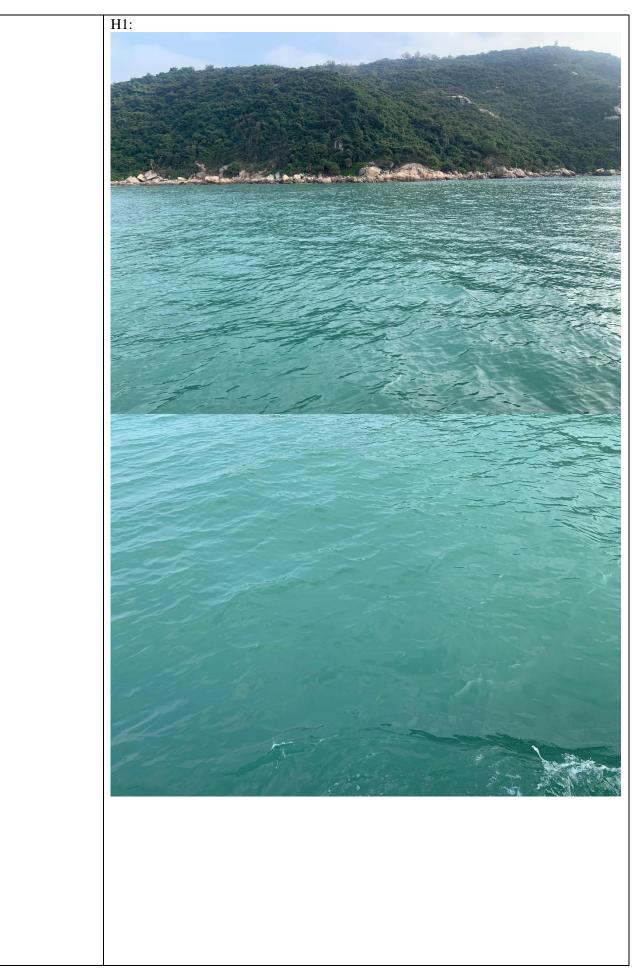


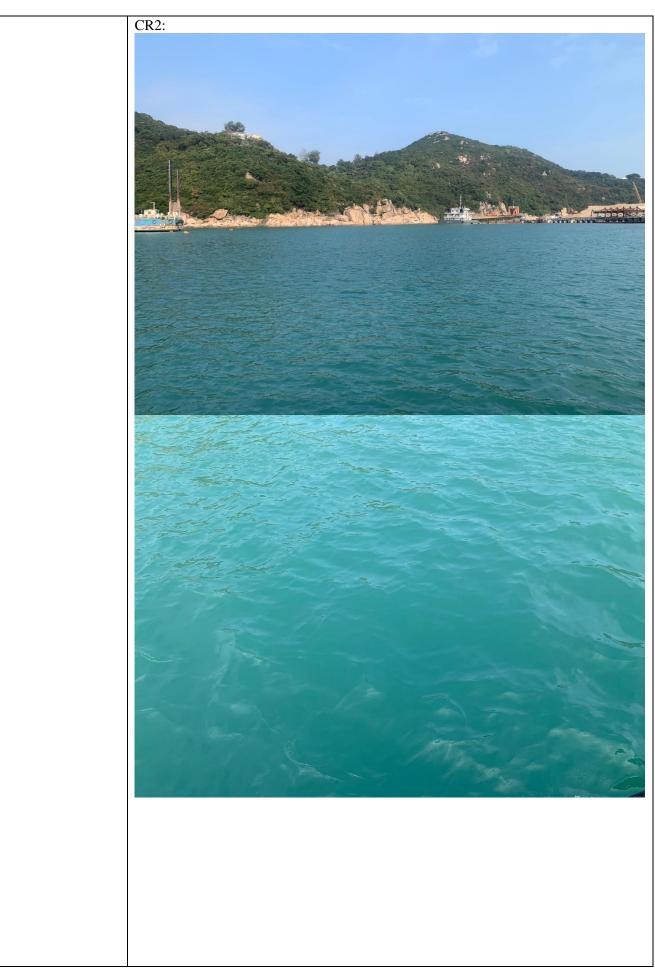


Mid-Flood			
Monitoring Location	F1A, H1, CR2	B2 PROPOSED OUTFALL + SZA + B3 + + ENER KWU CHAU CR2 SUBMARINE CABLES + CR2 CR2 CR2 CR2 CR2 CR2 CR2 CR2	FIA N N N N N N N N N N N N N
Parameter	Suspended Solid (SS)		
Action & Limit Levels	Suspended Solid (SS)       Action Level       Limit Level		
	$\geq 8.6 \text{ mg/L (120\% of C2A)}$	$\geq 10.0 \text{ mg/L}$	
Measurement Level	Impact Station(s) of Exceedance	Control Stations	Impact Station(s) without Exceedance
	17.0 mg/L (F1A) 9.5 mg/L (H1) 8.7 mg/L (CR2)	12.3 mg/L (C1A) 7.2 mg/L (C2A)	5.3 mg/L (B1) 7.3 mg/L (B2) 6.8 mg/L (B3) 6.3 mg/L (B4) 6.5 mg/L (M1) 6.8 mg/L (CR1)
Possible reason for Action or Limit Level Non-compliance	Works scheduled on site on 04 Jan 2023 include laying of 900kg underlayer rock at Seawall A seaside CH490 - CH600, installation of Chinese pod at Caissons 52 - 55, laying of 2.5T armour rock at Breakwater A seaside CH1030 - CH1120, remove the surcharge materials from Zone 5 to flat top barge Hong Hong 3133, 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.		
	Dominant sea current direction was found to be from Southeast to Northwest at waters around Shek Kwu Chau.		
	Exceedances of action level were found at H1 and CR2, an exceedance of limit level was found at F1A. F1A and H1 are located at unrelated stream direction (neither upstream nor downstream) to the works location. Exceedances at F1A and H1 are deemed to be unrelated to the Project.		
	The installation of caisson No.19 was completed on 18 Mar 2021, the reclamation area was enclosed.		

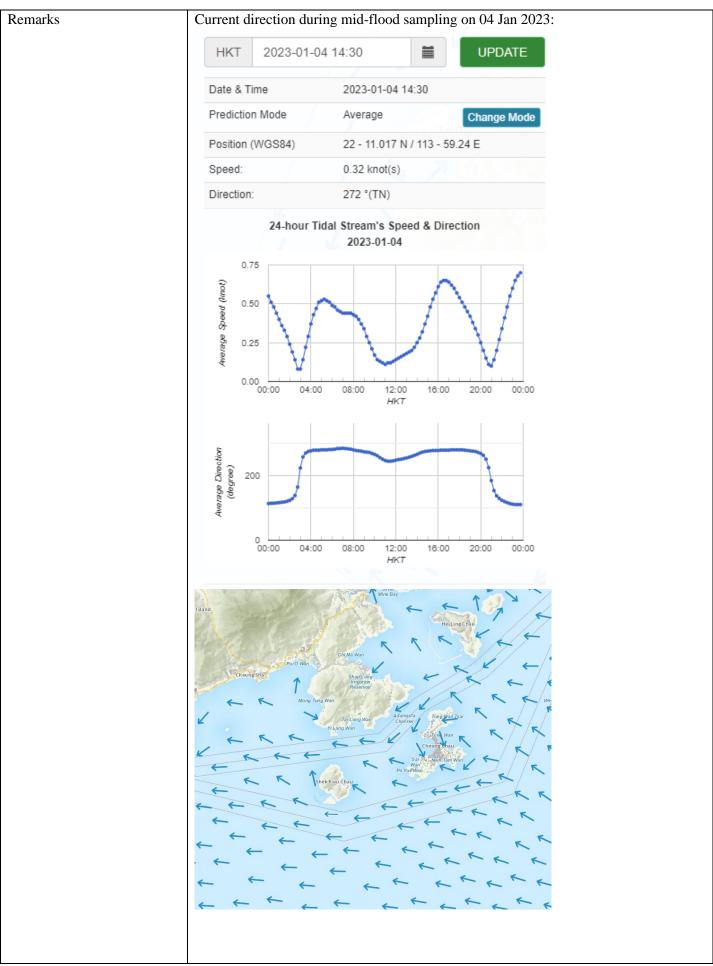
According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was fine during the sampling event.
No major observation of improper site practices that contributed to the increase of the suspended solids was recorded during the weekly site inspection on 10 January 2023.
After the investigation, the exceedances on 04 January 2023 during flood tide at F1A, H1 and CR2 are deemed to be unrelated to the Project.



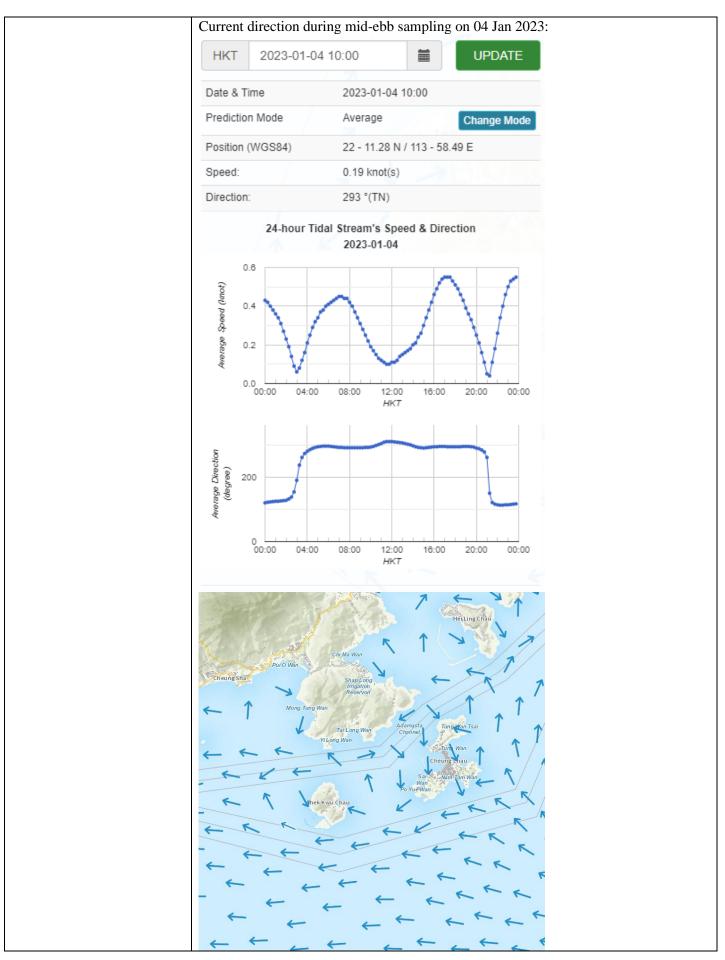




#### Contract No. EP/SP/66/12 Integrated Waste Management Facilities, Phase 1



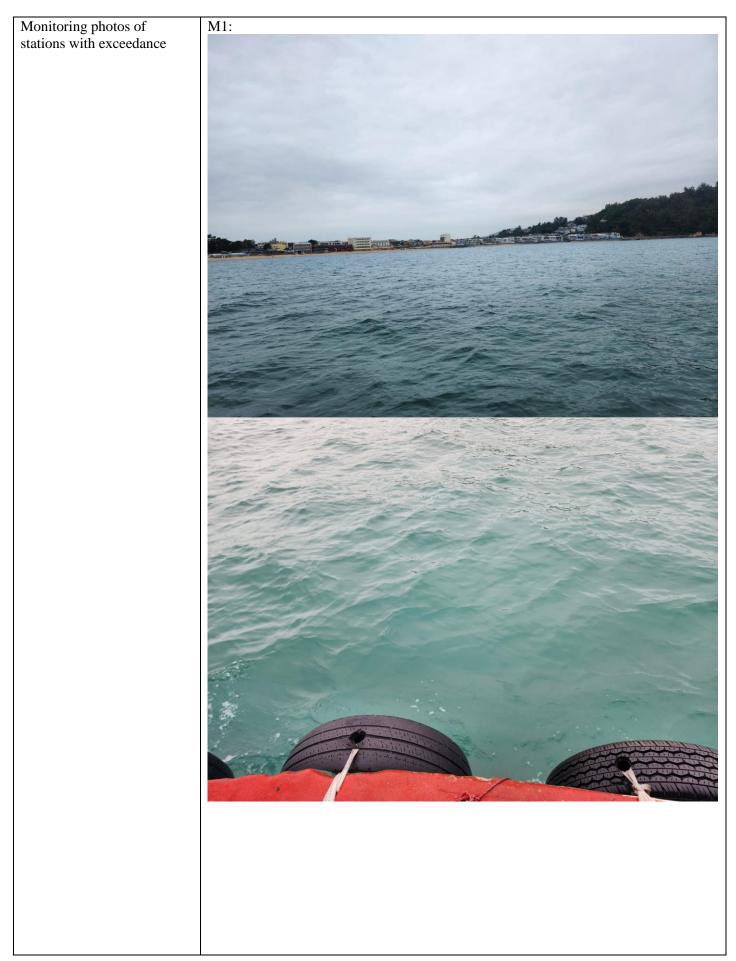
#### Contract No. EP/SP/66/12 Integrated Waste Management Facilities, Phase 1

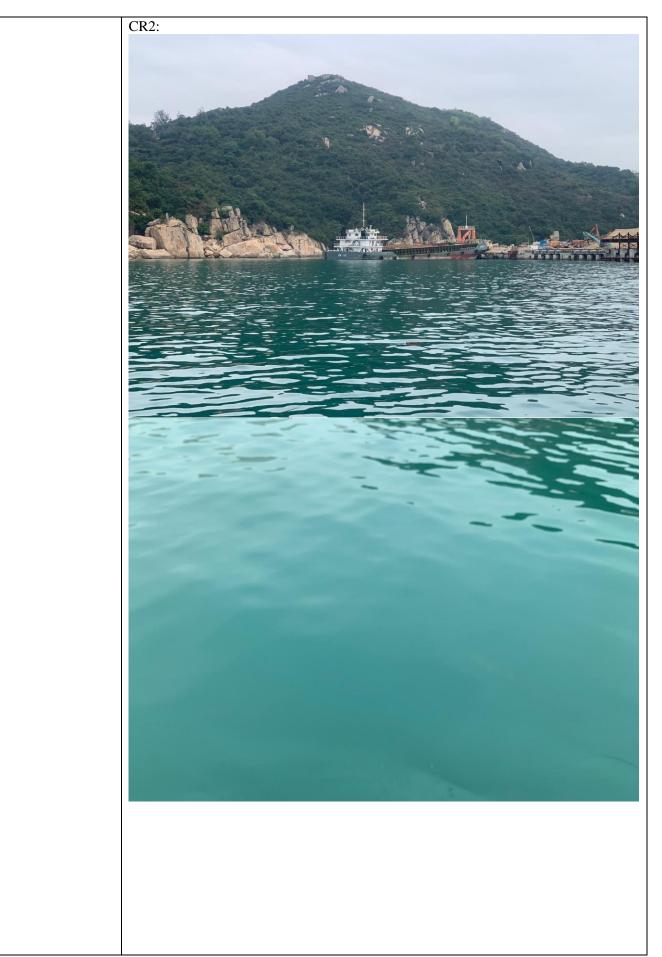


	Legend			
	Speed (knot)		Speed (knot)	
	0-0.5	$\rightarrow$	1.5-2.0	$\rightarrow$
	0.5-1.0	$\rightarrow$	2.0-2.5	$\rightarrow$
	1.0-1.5		2.5 and above	$\rightarrow$
	(Sourced from http://d	current.hy	dro.gov.hk/en/map.ht	ml)
Prepared by	Jack Chow			
Date	17 Jan 2023			

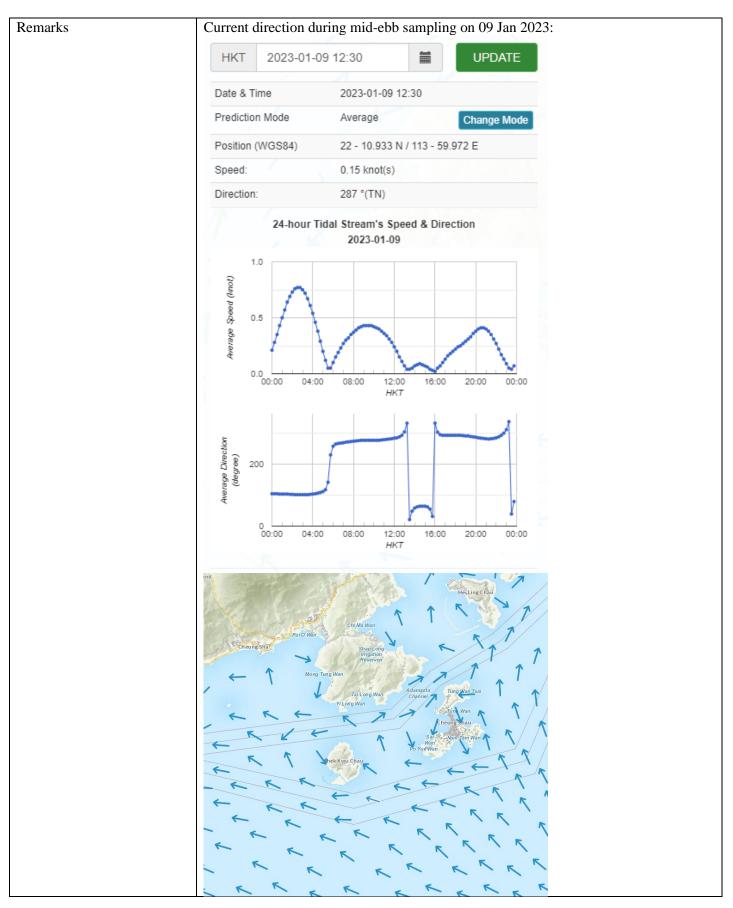
Project	Integrated Waste Management Facilities, Phase 1			
Date	09 Jan 2023 (Lab result received on 17 January 2023)			
Time	12:29 – 14:44 (Mid-Ebb)			
	Mid-E	Ebb		
Monitoring Location	M1, CR2	PCPORSED OUTFAIL + SZA FROPORSED OUTFAIL + SZA FROPORSED TISAV BUIMARRIE CABLES H H H SHEK KWU CHAU CR2 CR1 CR1 CR1 CR1 CR1 CR1 CR1 CR1	FIA FIA PEA C2A Key A PROPOSED 132KV SUBMARINE CABLE C MONITORING STATION PROPOSED UTFALL PROPOSED UTFALL PROPOSED UTFALL THE IWINF SITE BOUNDARY LAND FORMATION FOOTPRINT THE IWINF SITE BOUNDARY	
Parameter	Suspended Solid (SS)			
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		Exceedance	
	10.5 mg/L (M1) 9.0 mg/L (CR2)	4.5 mg/L (C1A) 5.8 mg/L (C2A)	6.0 mg/L (B1) 6.8 mg/L (B2) 6.5 mg/L (B3) 7.3 mg/L (B4) 5.8 mg/L (H1) 4.8 mg/L (F1A) 6.2 mg/L (CR1)	
Possible reason for Action or Limit Level Non-compliance	<ul> <li>Breakwater A landside CH92</li> <li>49, inspection works of stop materials from Zone 5 to flat driven pile, piling works blockwork seawall and exist works.</li> <li>Dominant sea current direction around Shek Kwu Chau.</li> <li>An exceedance of action level</li> </ul>	35 - CH945, installation of pers at Seawall A CH20 - C top barge Hong Hong 3132, for pre-bored socketed H- ing caisson extension, and H on was found to be from Sou el was found at CR2, and an ed at unrelated stream dire	g of 900kg underlayer rock at Chinese pod at Caissons 47 - CH170, remove the surcharge piling works, piling works for -pile, pile cap construction, Process Building construction utheast to Northwest at waters exceedance of limit level was ection (neither upstream nor	

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 overcast 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 10 January 2023.
After the investigation, the exceedances on 09 January 2023 during ebb tide at M1 and CR2 are deemed to be unrelated to the Project.





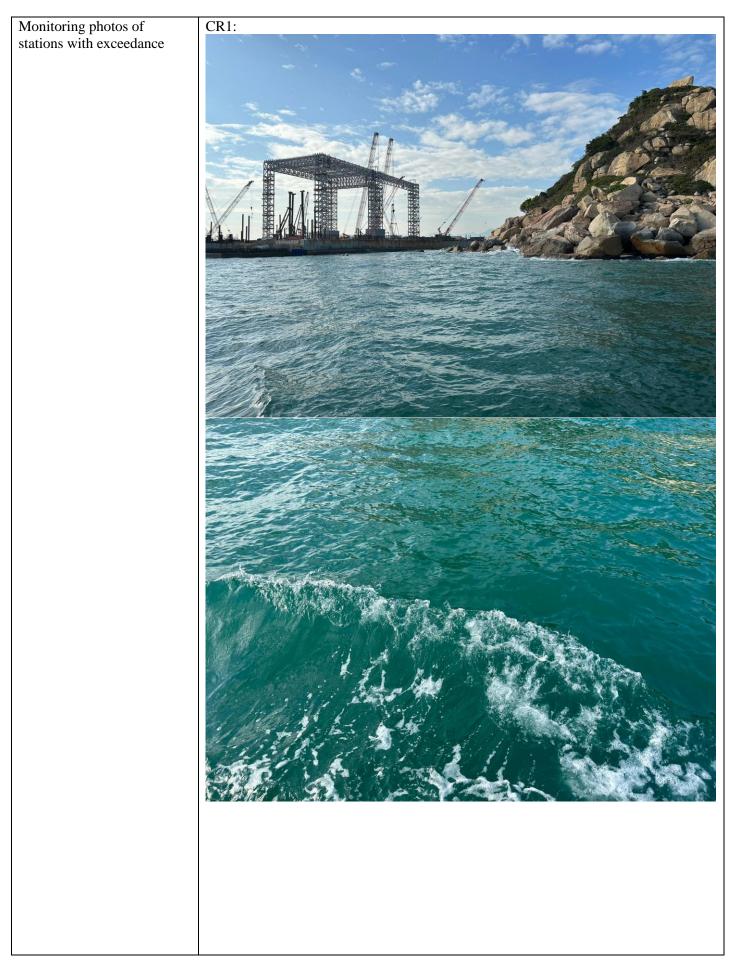
#### Contract No. EP/SP/66/12 Integrated Waste Management Facilities, Phase 1

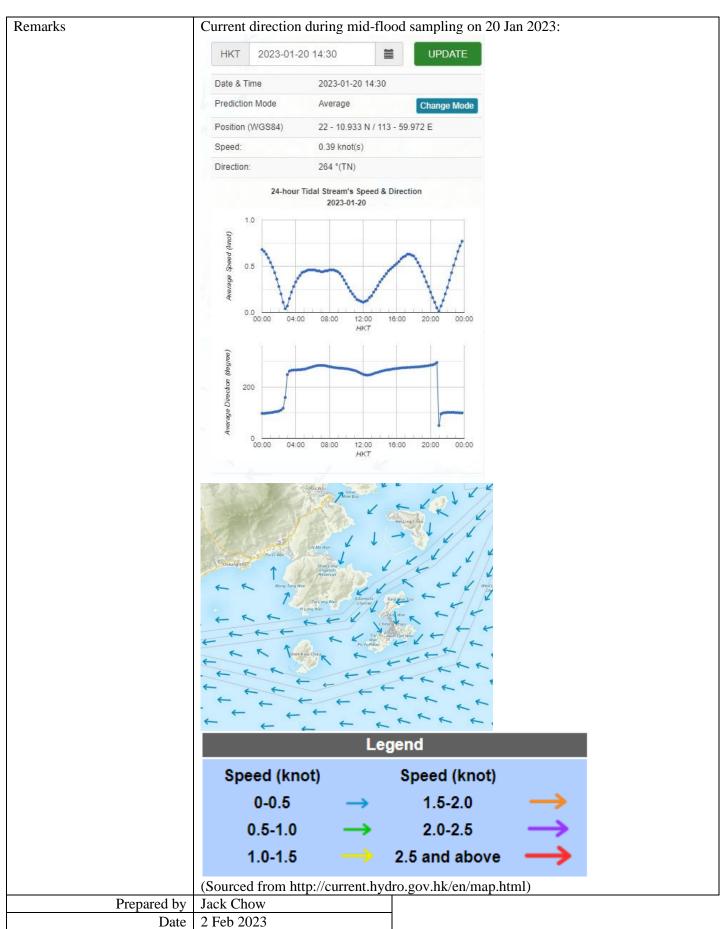


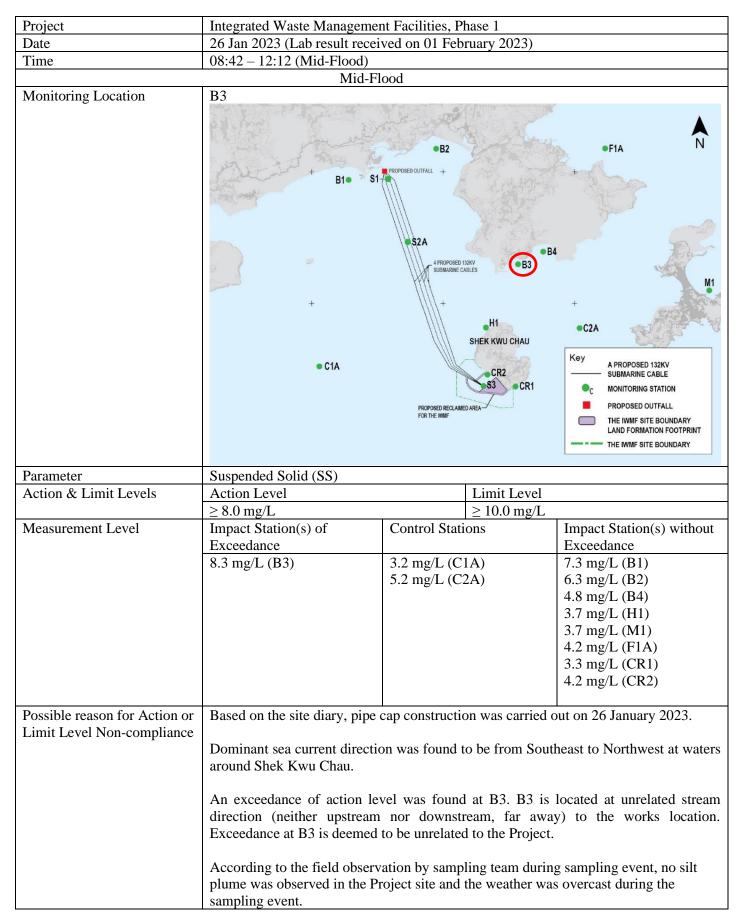
	Legend			
	Speed (knot)		Speed (knot)	
	0-0.5	$\rightarrow$	1.5-2.0	$\rightarrow$
	0.5-1.0	$\rightarrow$	2.0-2.5	$\rightarrow$
	1.0-1.5		2.5 and above	$\rightarrow$
	(Sourced from http://d	current.hy	dro.gov.hk/en/map.ht	ml)
Prepared by	Jack Chow			
Date	2 Feb 2023			

Project	Integrated Waste Management Facilities, Phase 1				
Date	20 Jan 2023 (Lab result received on 30 January 2023)				
Time	14:17 – 17:47 (Mid-Flood)				
		Mid-Flood			
Monitoring Location	CR1 + BIO SI	B2 PROPOSED OUTFALL + SZA 4 PROPOSED 1324 SUBMARINE CABL + COMPARENT AND A CABL CAB	H1 SHEK KWU CHAU	FIA + + + + + + + + + + + + +	
Parameter	Suspended Solid (SS)				
Action & Limit Levels	Action Level		Limit Level		
	$\geq$ 8.8 mg/L (120% of C2A)		$\geq$ 10.0 mg/L		
Measurement Level	Impact Station(s) of	Control Statio	ons	Impact Station(s) without	
	Exceedance			Exceedance	
	9.7 mg/L (CR1)	6.6 mg/L (C1.		3.5 mg/L (B1)	
		7.3 mg/L (C2.	A)	3.5 mg/L (B2)	
				4.5 mg/L (B3)	
				2.5 mg/L (B4)	
				3.0 mg/L (H1)	
				3.7 mg/L (M1)	
				5.5 mg/L (F1A)	
				5.0  mg/L (CR2)	
				3.0  mg/L(CR2)	
Possible reason for Action or Limit Level Non-compliance	Based on the site diary, no s when the AL exceedance occ		carried out in the	he afternoon of 20 Jan 2023	
	Dominant sea current direction was found to be from Southeast to North around Shek Kwu Chau.			neast to Northwest at waters	
	An exceedance of action leve	el was found at (	CR1.		
	The installation of caisson No.19 was completed on 18 Mar 2021, the reclamation a was enclosed.			r 2021, the reclamation area	

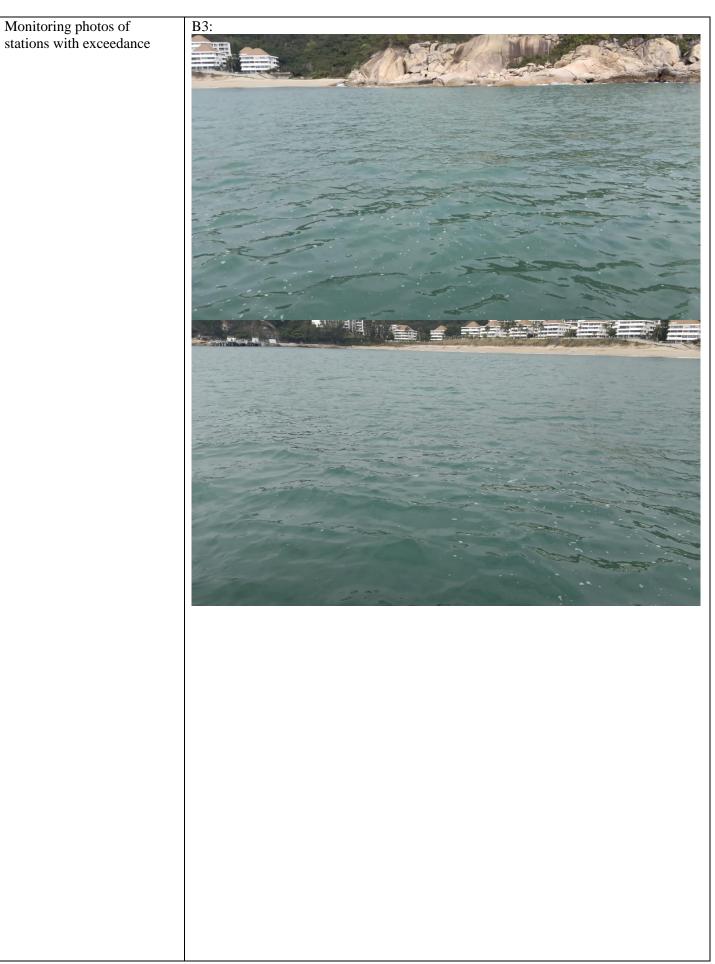
	According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was fine during the sampling event.
	No major observation of improper site practices that contributed to the increase of the suspended solids was recorded during the weekly site inspection on 26 January 2023.
	After the investigation, the exceedance on 20 January 2023 during flood tide at CR1 is deemed to be unrelated to the Project.
1	



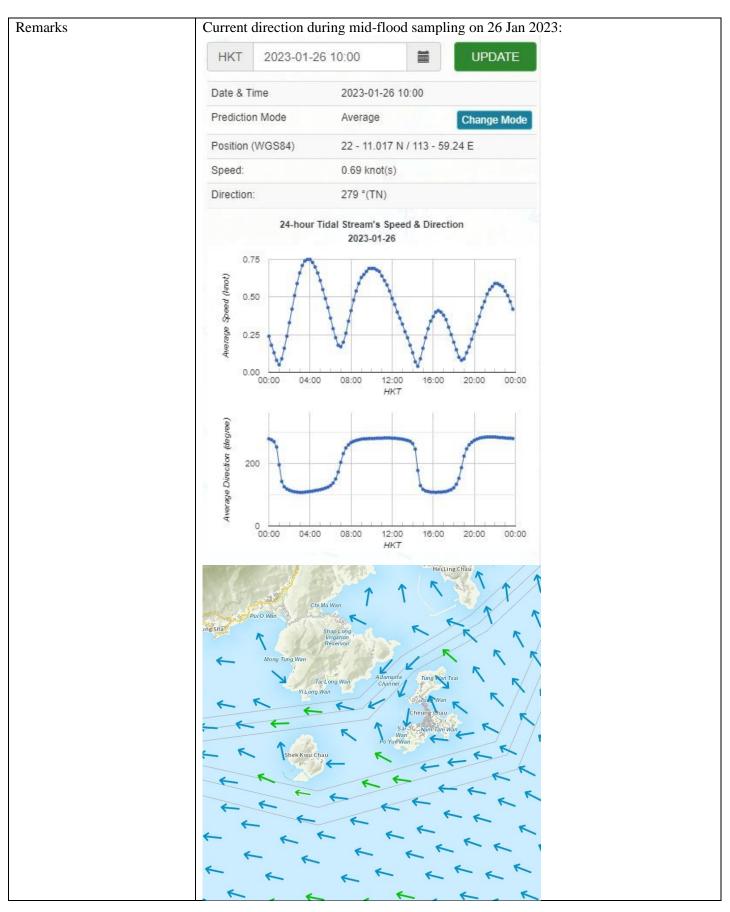




No major observation of improper site practices that contributed to the increase of the suspended solids was recorded during the weekly site inspection on 31 January 2023.
After the investigation, the exceedance on 26 January 2023 during flood tide at B3 is deemed to be unrelated to the Project.



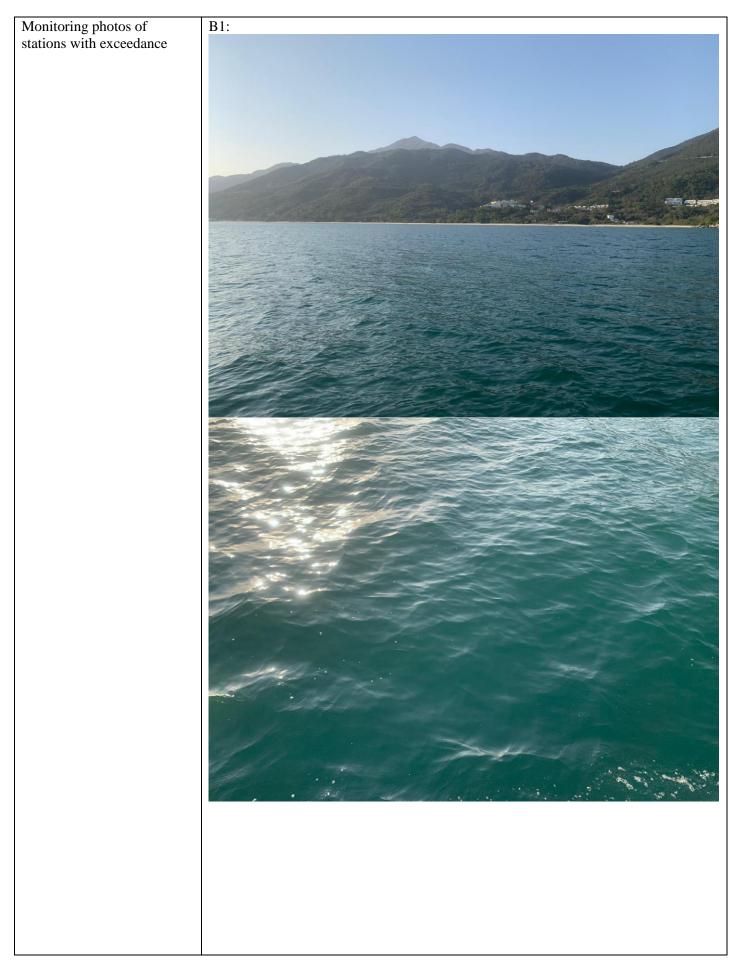
#### Contract No. EP/SP/66/12 Integrated Waste Management Facilities, Phase 1

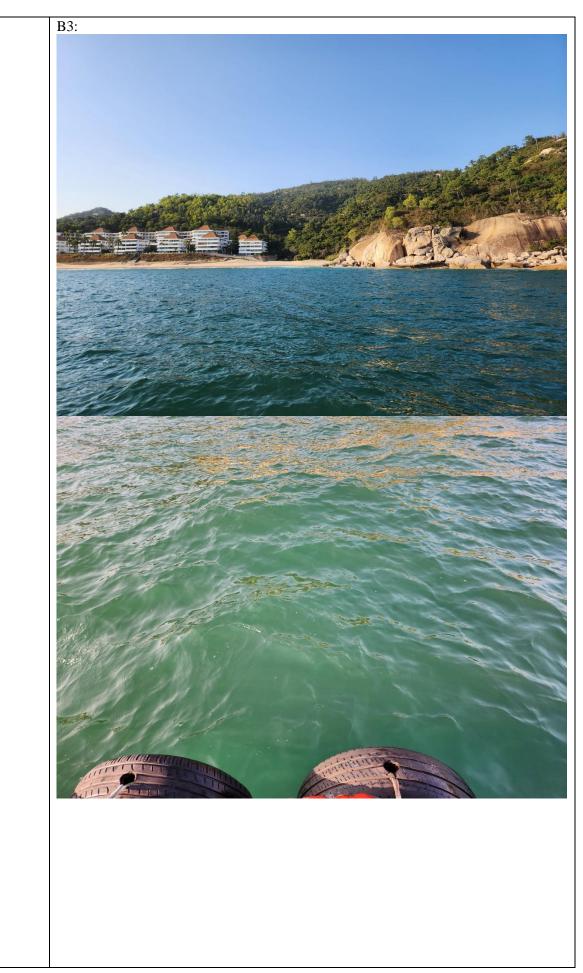


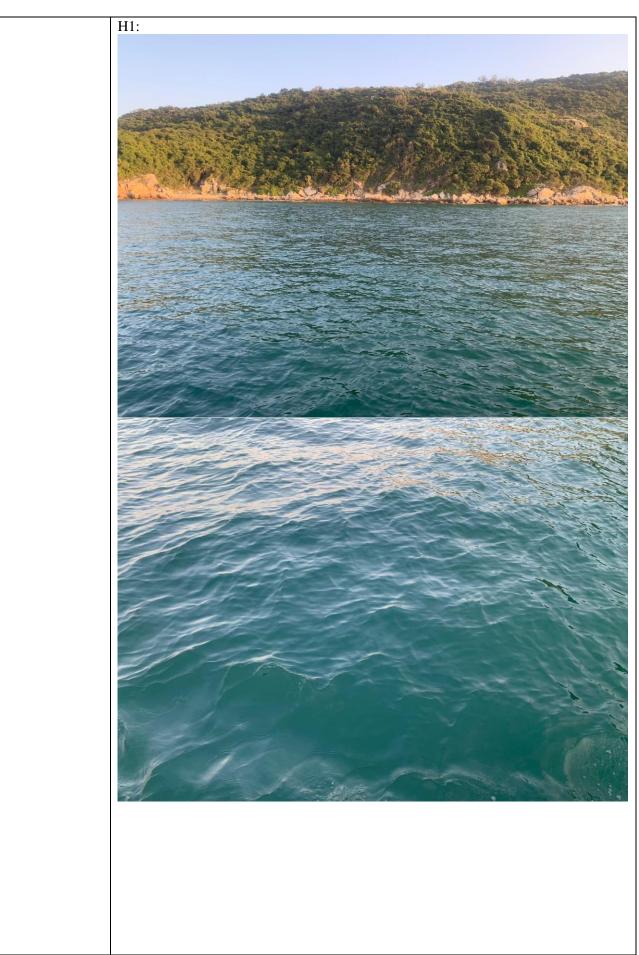
	Legend			
	Speed (knot)		Speed (knot)	
	0-0.5	$\rightarrow$	1.5-2.0	$\rightarrow$
	0.5-1.0	$\rightarrow$	2.0-2.5	$\rightarrow$
	1.0-1.5		2.5 and above	$\rightarrow$
	(Sourced from http://d	current.hy	dro.gov.hk/en/map.ht	ml)
Prepared by	Jack Chow			
Date	06 Feb 2023			

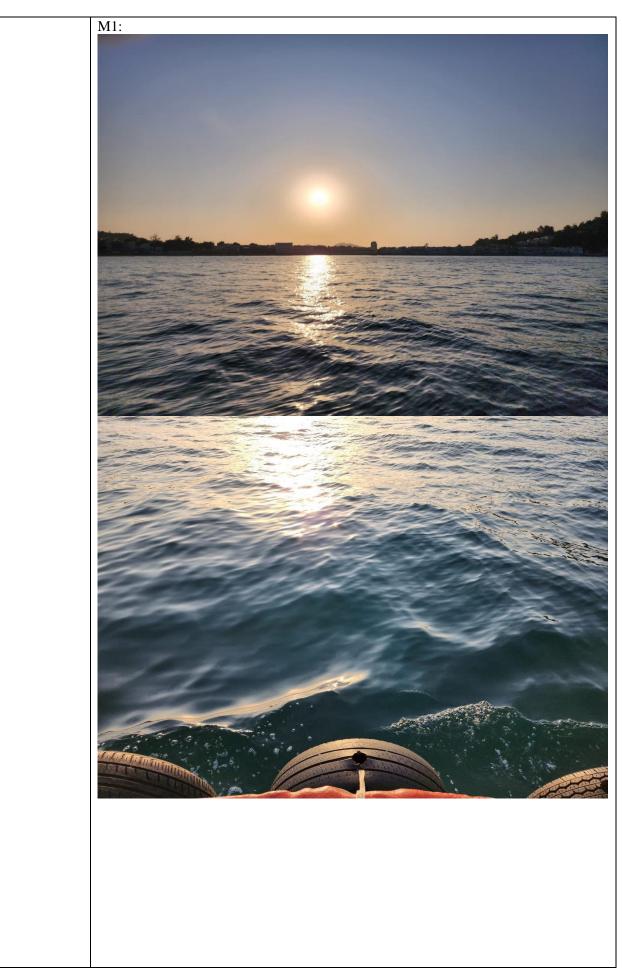
Project	Integrated Waste Managemen	nt Facilities, Phase 1	
Date	28 Jan 2023 (Lab result received on 03 February 2023)		
Time	15:50 – 19:00 (Mid-Ebb)		
	Mid-Ebb		
Monitoring Location	B1, B3, H1, M1	PROPOSED OUTFALL	PF1A PF1A N B4 C2A Key A PROPOSED 132KV SUBMARINE CABLE C MONITORING STATION PROPOSED OUTFALL PROPOSED OUTFALL PROPOSED OUTFALL THE IWMF SITE BOUNDARY LAND FORMATION FOOTPRINT
Degenerator	Susman dad Salid (SS)		THE IWMF SITE BOUNDARY
Parameter	Suspended Solid (SS)	<b>•</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		Exceedance
	8.3 mg/L (B1)	3.8 mg/L (C1A)	5.3 mg/L (B2)
	8.8 mg/L (B3)	5.3 mg/L (C2A)	6.3 mg/L (B4)
	9.0 mg/L (H1)		4.1 mg/L (F1A)
	9.0 mg/L (M1)		7.8 mg/L (CR1)
			7.3 mg/L (CR2)
Possible reason for Action or Limit Level Non-compliance	<ul> <li>Works scheduled on site on 28 Jan 2023 include laying of 900kg underlayer rock a Breakwater A seaside CH540 - CH670, inspection works at Breakwater B landsid CH200, piling works, piling works for driven pile, piling works for pre-bored sockete H-pile, pile cap construction, blockwork seawall and existing caisson extension, an Process Building construction works.</li> <li>Dominant sea current direction was found to be from Northwest to Southeast at water around Shek Kwu Chau.</li> <li>An exceedance of action level was found at B1, B3, H1 and M1. B1, B3, H1 and M1ar located at unrelated stream direction (neither upstream nor downstream, far away) t the works location. Exceedances at B1, B3, H1 and M1 are deemed to be unrelated t the Project.</li> <li>The installation of caisson No.19 was completed on 18 Mar 2021, the reclamation are was enclosed.</li> </ul>		

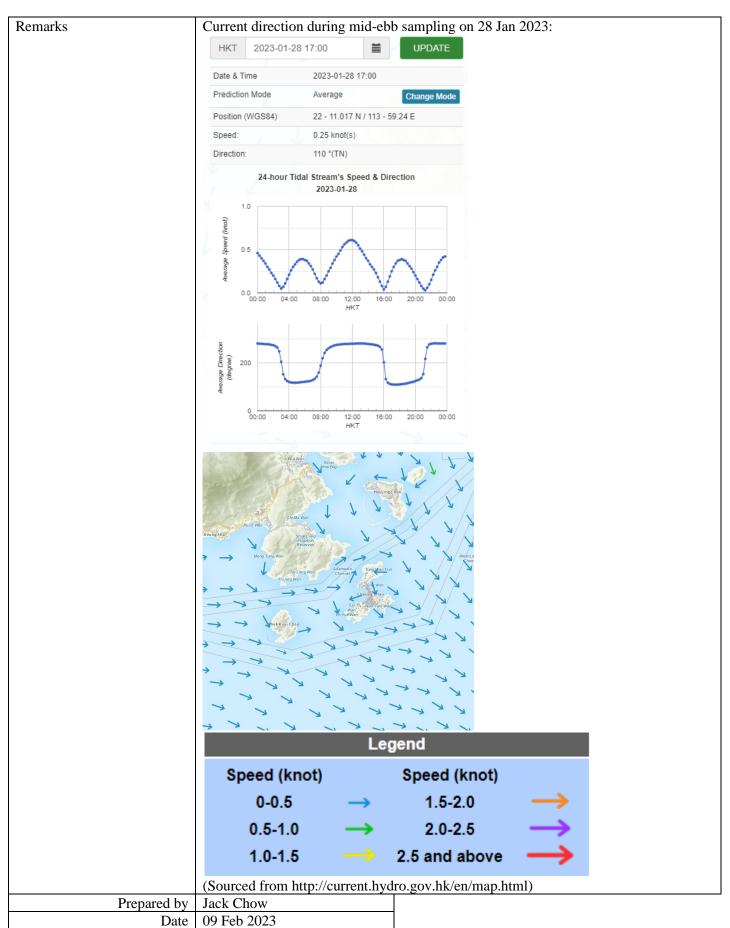
According to the field observation by sampling team during sampling event, no silt plume was observed in the Project site and the weather was fine during the sampling event.
No major observation of improper site practices that contributed to the increase of the suspended solids was recorded during the weekly site inspection on 31 January 2023.
After the investigation, the exceedances on 28 January 2023 during ebb tide at B1, B3, H1 and M1 are deemed to be unrelated to the Project.











Appendix O Complaint Log

Integrated Waste Management Facilities, Phase 1

## Statistical Summary of Environmental Complaints

Reporting	Environmental Complaint Statistics					
Period	Frequency	cy Cumulative Complaint Natu				
01 Jan 2023- 31 Jan 2023	0	1	N/A			

## Statistical Summary of Environmental Summons

Reporting	Environmental Summons Statistics				
Period	Frequency	Cumulative	Details		
01 Jan 2023-	0	0	N/A		
31 Jan 2023	0	0	IN/A		

#### Statistical Summary of Environmental Prosecution

Reporting Period	Environmental Prosecution Statistics			
	Frequency	Cumulative	Details	
01 Jan 2023-	0	0	N/A	
31 Jan 2023	0	0	IN/A	

# Appendix P Impact Monitoring Schedule of Next Reporting Month

	Impact Monitoring Schedule for IWMF Feb-23					
	Mon				Eri	
		Tue	1	2	3	
				Impact Ecology monitoring for WBSE	Water Quality monitoring for B1, B3 Tid Ebb Tide Flood Tid Moni #\$Mid-eb Mid-floo	
5 Impact	6 Impact	7 impact	8 impact	9 impact	10	
Water Quality monitoring for 81, 82, 83, 84, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 10:58-14:18 Flood Tide: 24:18-21:00 Monitoring Time: Mid-ebb: 11:08-14:08 #&Mid-flood: 15:54-19:00	Daytime & Evening Noise monitoring for M1, M2 & M3	Water Quality monitoring for 51, 82, 83, 84, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 11:23 - 15:44 Flood Tide: 15:44 - 22:07 Monitoring Time: Mid-ebb: 11:48 - 15:18 #&Mid-flood: 16:03 - 19:00 Night time Noise monitoring for M1, M2 & M3	Ecology monitoring for Marine Mammals by Vessel-based Line-Transect Survey	Water Quality monitoring for 81, 82, 83, 84, H1, C14, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 11:53 - 17:06 Flood Tide: 05:51 - 11:53 Monitoring Time: Mid-ebb: 12:44 - 16:14 *Mid-flood: 06:04 - 11:34 Ecology monitoring for WBSE		
12	13	14	15	16	17	
	Impact Daytime & Evening Noise 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: 15:02 - 22:46 Flood Tide: 07:56 - 15:02 Monitoring Time: #&Mid-ebb: 17:09 - 19:00 Mid-flood: 09:44 - 13:14 Night time Noise 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: 17:00 - 23:59 Flood Tide: 00:50 - 17:11 Monitoring Time: #&Mid-flood: 08:00 - 10:45 Ecology monitoring for WBSE Ecology monitoring for Marine Mammals by Vessel-based Line-Transect Survey		
19	20	21	22	23	24	
	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 10:53 - 14:55 Flood Tide: 14:55 - 21:20 Monitoring Time: Mid-ebb: 11:09 - 14:42 Mid-flood: 15:14 - 18:44 Daytime & Evening Noise monitoring for M1, M2 & M3	Impact Night time Noise 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: 11:50 - 16:33 Flood Tide: 05:02 - 11:50 Monitoring Time: Mid-ebb: 12:26 - 15:56 *Mid-flood: 08:00 - 11:29	Impact Ecology monitoring for WBSE	Water Quality monitoring for B1, B2 Tid Ebb Tid Filood Tid Moni Mid-ebb *#Mid-floo	
26	27	28				
	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 14:18 - 22:12 Flood Tide: 06:55 - 14:18 Monitoring Time: Mid-ebb: 14:41 - 18:11 Mid-flood: 08:15 - 12:21 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

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->C82->C1->H1->Bernaining stations and Mid-Flood: C2->CR1->S3->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 might-time, method of 90% tidal period as monitoring time is approached and end at 1900.

	Sat
	4
Impact or B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period:	
Ebb Tide: 10:00 - 13:00	
lood Tide: 13:00 - 20:00	
Monitoring Time:	
Mid-ebb: 10:09 - 12:51	
/id-flood: 14:45 - 18:15	
	11
	Impact
	Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period:
	Ebb Tide: 12:55 - 18:37
	Flood Tide: 06:41 - 12:55
	Monitoring Time:
	Mid-ebb: 14:01 - 17:31 Mid-flood: 08:03 - 11:33
	Wild*1000. 08.05 - 11.55
	18
	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1
	Tidal Period:
	Ebb Tide: 09:54 - 12:51
	Flood Tide: 12:51 - 19:19 Monitoring Time:
	#\$Mid-ebb: 10:02 - 12:42
	Mid-flood: 14:20 - 17:50
	25
Impact or B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1	
Tidal Period:	
bb Tide: 12:35 - 18:10	
lood Tide:06:00 - 12:35	
Monitoring Time: Mid-ebb: 13:37 - 17:07	
Mid-flood: 08:00 - 11:02	
	1