

Contract No. EP/SP/66/12 Integrated Waste Management Facilities, Phase 1 Monthly EM&A Report No.35



Monthly EM&A Report No.35 (Period from 1 May to 31 May 2021)

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

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Revision History

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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 35th 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 May to 31 May 2021.

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:
 - Placing rock filter
 - Reclamation works
 - PVD Remedial Works
 - Installation of Settlement Markers
 - Seawall Portion:
 - Installation of caisson
 - Installation of Chinese Pod
- 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;
 - Regulation on rate and means for filling works as stipulated in Table 1 of FEP or the approved Supporting Document for Reviewing Dredging Rate and Filling Rate, whichever is applicable;
 - Confirmation of the absence of silt content in the rock filling material and the filling work is properly conducted;

Summary of Exceedance & Investigation & Follow-up

- A7. The EM&A works for water quality, construction waste, marine mammal, coral 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 monitoring was recorded in the reporting month.
- A9. None of the general water quality monitoring results of suspended solids (SS) obtained had exceeded neither Action Level nor Limit Level.
- A10. No project-related Action Level & Limit Level exceedance was recorded from 1 May 2021 to 31 May 2021.
- A11. Weekly site inspections of the construction work by ET were carried out on 4, 13, 18, 25 and 31 May 2021 to audit the mitigation measures implementation status. Monthly joint site inspection was carried out on 18 May 2021 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. The update EM&A manual (Rev.E) has been approved by Environmental Protection Department (EPD) on 28 May 2021, the frequency of coral monitoring has been amended from every three months to bi-annual after the completion of marine works. The frequency of coral monitoring remains on every three months basis until the completion of marine works.

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
 - PVD Remedial Works
 - Installation of Settlement Markers
 - Seawall Portion:
 - Installation of caisson
 - Installation of Chinese Pod

- 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;
 - Confirmation of the absence of silt content in the rock filling material and the filling work is properly conducted; and
 - Dust control of exposed soil surface and stockpile of dusty material at reclaimed area.

1. BASIC PROJECT INFORMATION

1.1 Background

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

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

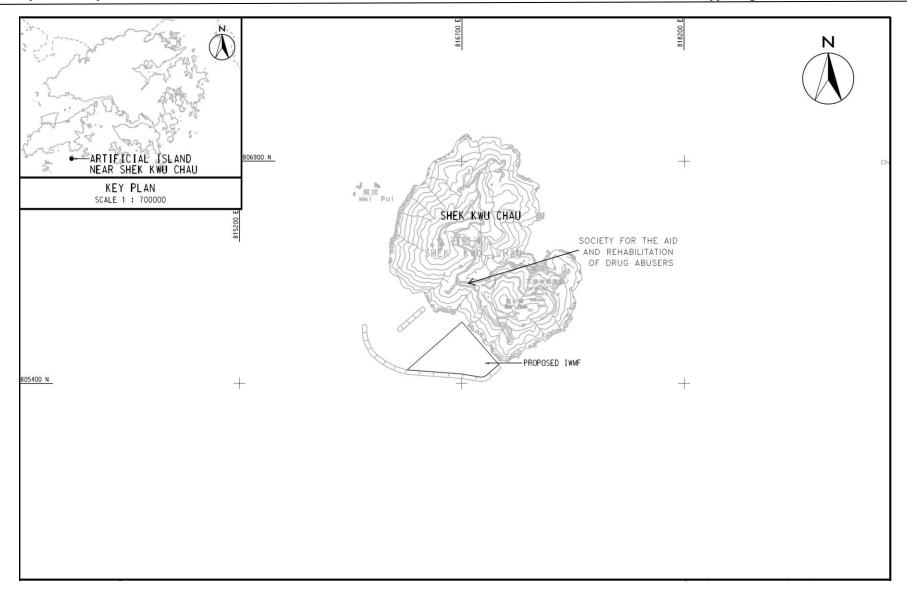


Figure 1.1 Location of the IWMF at the Artificial Island near SKC

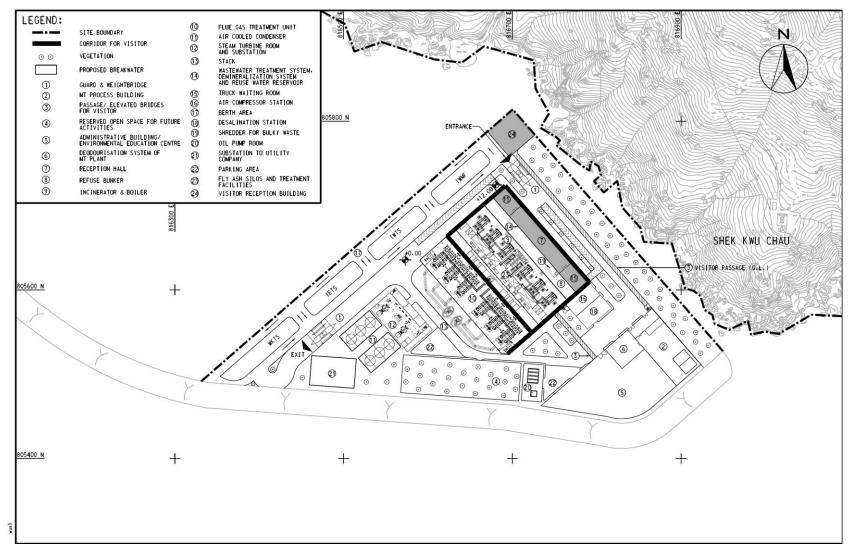


Figure 1.2 General Layout of the IWMF at the Artificial Island near SKC

- 1.2 The Reporting Scope
- 1.2.1 This is the 35th Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 May 2021 to 31 May 2021.
- 1.3 Project Organization
- 1.3.1 The Project Organization structure for Construction Phase is presented in **Figure 1.3**.

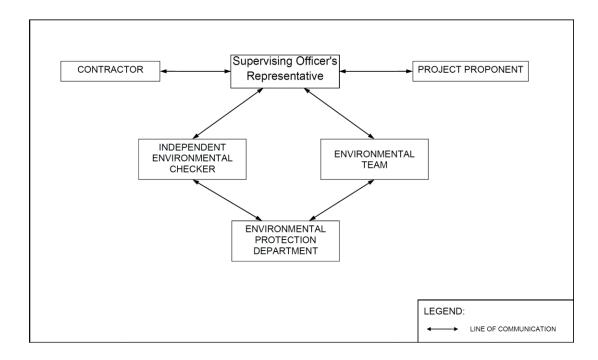


Figure 1.3 Project Organization Chart

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	Placing rock filter	Completed
	Reclamation works	On-going
	PVD Remedial Works	On-going
	Installation of Settlement Markers	• On-going
Seawall portion	Installation of caisson	On-going
	Installation of Chinese Pod	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/	Reference	Validity Period	Remarks
Notification			
Variation of	EP-429/2012/A	Throughout the	
Environmental		Contract	
Permit			
Further	FEP-01/429/2012/A	Throughout the	
Environmental		Contract	
Permit			
Notification of	Ref No.: 428778	15/12/2017 —	
Construction Works		22/09/2024	
under the Air			
Pollution Control			
(Construction Dust)			
Regulation (Form			
NA)			
Wastewater	WT00033787-2019	22/08/2019 -	
Discharge Licence		31/08/2024	
Chemical Waste	WPN0017-933-	Throughout the	
Producer Registration	K3301-01	Contract	
	WPN5213-961-	Throughout the	
	K3301-02	Contract	
	WPN5296-839-	Throughout the	
	K3301-03	Contract	
Construction Noise	GW-RS0217-21	03/04/2021-	Portion 1, 1A & 1B
Permit (24 hours)		01/10/2021	
	GW-RE0957-20	24/11/2020 -	Superceded by GW-
		23/05/2021	RE0467-21
	GW-RE0467-21	23/05/2021 -	Portion 8
		22/11/2021	
Billing Account for	A/C No.:7029768	Throughout the	
Disposal of		Contract	
Construction Waste			

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

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

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

Parameters	Status	
Passive Acoustic	30 days of PAM surveys were started on 1 May 2019 and	
Monitoring	completed until the end of May 2019.	
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 On-going	
Environmental Audit		
Site Inspection covering Measures of Air Quality, Noise Impact, Water Quality, Waste, Ecological Quality, Fisheries, Landscape and Visual	On-going	
Mitigation Measures in Marine Mammal Watching Plan (MMWP)	Installation of caisson No.19 was completed on 18 March 2021, which the reclamation area had been totally enclosed by permanent structure. Floating type silt curtain at marine access was removed on 18 March 2021. No enclosed area shall be formed by deployment of silt curtain for the remaining works programme.	
Mitigation Measures in Detailed Monitoring Programme on Finless Porpoise (DMPFP)	Installation of caisson No.19 was completed on 18 March 2021, which the reclamation area had been totally enclosed by permanent structure. Floating type silt curtain at marine access was removed on 18 March 2021. No enclosed area shall be formed by deployment of silt curtain for the remaining works programme.	
Mitigation Measures in Vessel Travel Details	On-going	
Daily Site Audit and Monitoring for Dredging Work	Completed	

- 1.5.3 Other than the EM&A work by ET, environmental briefings, trainings and regular environmental management meetings were conducted, in order to enhance environmental awareness and closely monitor the environmental performance of the contractors.
- 1.5.4 The EM&A programme has been implemented in accordance with the recommendations presented in the approved EIA Report and the Updated EM&A Manual. A summary of implementation status of the environmental mitigation measures for the construction phase of the Project during the reporting period is provided in **Appendix B**.

2. MARINE WATER QUALITY MONITORING

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

Table 2.1 Water Quality Monitoring Parameters, Frequency and Duration

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

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 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.

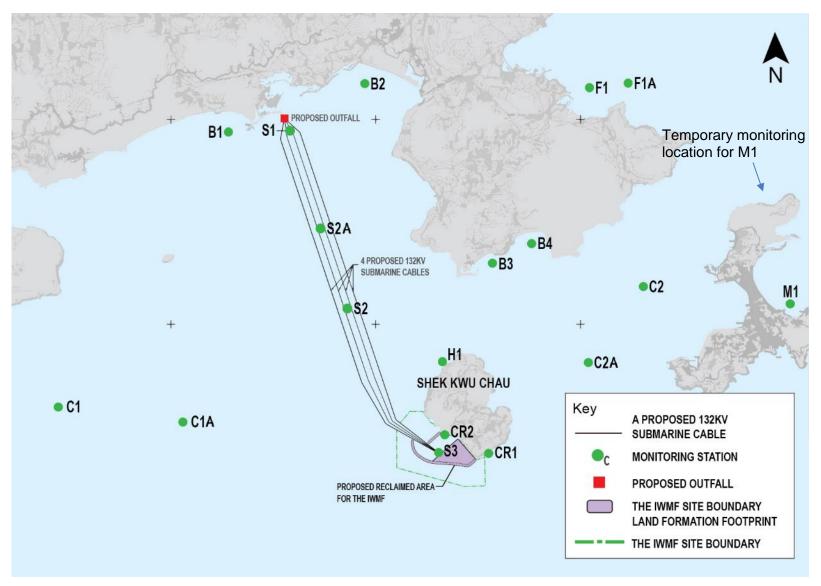


Figure 2.1 Water monitoring locations at Artificial Island near SKC

- 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**:

Table 2.2 – Locations of Marine Water Quality Stations

Monitoring station	Description	Easting	Northing
B1	Beach – Cheung Sha Lower	813342	810316
B2	Beach – Pui O	815340	811025
В3	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
S3	Submarine Cable Landing Site	816420	805621
CR1	Coral	817144	805597
CR2	Coral	816512	805882
M1	Tung Wan	821572	807799

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 recorded in the data record sheets 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

Levels of DO, pH, temperature, turbidity and salinity would be measured in-situ by 2.4.4 portable and weatherproof measuring instrument, e.g. YSI ProDSS and Horiba Multiparameter complete with cable and sensor. technical specification http://www.ysi.com/ProDSS for YSI ProDSS 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**

Table 2.3 – Parameters Measured by In-situ Measurement

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
pН	pH 0.01	pH 0-14
Salinity	0.01 ppt	0-40 ppt
Water Current Velocity	0.001m/s	±20m/s
Water Current Direction	±1°	±2°

Laboratory Analysis

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

Table 2.4 – Analytical Methods Applied to Water Quality Samples

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

Footnote:

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

Field Log

2.4.6 Other relevant data was recorded, such as: monitoring location / position, time, water depth, weather conditions and any special phenomena underway near the monitoring station.

2.5 Monitoring Equipment

2.5.1 Equipment used in the impact water quality monitoring programme is summarized in **Table 2.5** below. Calibration certificates for the water quality monitoring equipment are attached in **Appendix F**.

Table 2.5 Impact Water Quality Monitoring Equipment

Monitored Parameter	Equipment	Brand and Model
DO, Temperature, Salinity,	Multi-functional Meter	Horiba U-53 & YSI ProDSS
pH and Turbidity		Multi Parameters
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 $0-1000~\rm NTU$.

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.

Table 2.6 Criteria of Action and Limit Levels for Water Quality

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

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).

Table 2.7 Derived Action and Limit Levels for Water Quality Monitoring (Dry Season)

Parameters	Action	Limit
Construction Pl	hase Impact Monitoring	
DO in mg/L	≤7.13	≤ 4
SS in mg/L	\geq 8 or 120% of control station's	≥ 10 or 130% of control station's
	SS at the same tide of the same	SS at the same tide of the same day
	day of measurement, whichever is	
	is higher	higher
Turbidity in	\geq 5.6 or 120% of control station's	\geq 12.8 or 130% of control station's
NTU	turbidity at the same tide of the	turbidity at the same tide of the
	same day of measurement,	same day of measurement,
	whichever is higher	whichever is higher

Parameters	Action	Limit
Temperature in °C	1.8°C above the temperature recorded at representative control station at the same tide of the same day	2°C above the temperature recorded at representative control station at the same tide of the same day

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.
- For turbidity, SS and Salinity, non-compliance of the water quality limits occurs when monitoring result is higher than
 the limits.

Table 2.8 Derived Action and Limit Levels for Water Quality (Wet Season)

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

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
- 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 3, 5, 7, 10, 12, 14, 17, 19, 21, 24, 26, 28 and 31 May 2021.
- 2.8.2 Monitoring results of 6 key parameters: Salinity, DO, turbidity, SS, pH and temperature in this reporting, are summarized in **Table 2.9**, and details results are presented in **Appendix D.**

Table 2.9 Summary of Impact Water Quality Monitoring Results

					Parameters			
Loc	Locations	Dissolved Oxygen (mg/L)				Turbidity	Suspended Solids (mg/L)	Temp.(°C)
		Salinity (ppt)	Surface & Middle	Bottom	pН	(NTU)		
	Avg.	30.09	8.83	9.00	8.50	2.8	4.07	29.0
B1	Min.	28.57	7.28	7.61	8.09	2.0	2.00	24.6
	Max.	31.78	9.82	10.07	9.06	3.9	11.00	30.4
	Avg.	30.05	8.80	8.79	8.49	2.9	4.16	29.0
B2	Min.	28.63	7.79	7.67	8.16	1.8	2.00	24.7
	Max.	31.53	10.00	9.96	8.96	4.0	8.00	30.4
	Avg.	30.05	8.83	8.84	8.50	2.8	3.96	29.1
В3	Min.	28.41	7.40	7.17	8.18	2.0	2.00	24.7
	Max.	31.64	9.85	10.07	9.02	3.9	8.00	30.3
	Avg.	30.06	8.89	8.87	8.50	2.9	4.13	29.1
B4	Min.	28.45	7.86	7.58	8.11	1.9	2.00	24.8
	Max.	31.63	10.05	10.09	9.07	3.8	8.00	30.4
	Avg.	30.09	8.81	8.85	8.50	3.2	4.28	29.0
C1A	Min.	28.46	7.09	7.36	8.14	2.0	2.00	24.6
	Max.	31.67	9.86	10.08	9.06	4.8	11.00	30.3
	Avg.	30.07	8.91	8.88	8.51	3.2	4.20	29.1
C2A	Min.	28.51	7.32	7.29	8.19	1.9	2.00	24.3
	Max.	31.78	10.05	10.05	9.02	4.7	8.00	30.3
	Avg.	30.09	8.97	8.84	8.50	2.9	3.87	29.1
CR1	Min.	28.52	7.46	7.78	8.10	2.0	2.00	24.4
	Max.	31.79	10.10	10.08	8.93	4.0	9.00	30.3
on •	Avg.	30.04	8.88	8.84	8.49	2.9	3.95	29.0
CR2	Min.	28.57	7.15	7.67	8.13	1.7	2.00	24.5
	Max.	31.75	9.99	9.85	8.99	4.1	7.00	30.2
E1.4	Avg.	30.07	8.98	8.81	8.50	2.8	4.21	29.1
F1A	Min.	28.58	7.56	7.71	8.10	2.1	2.00	24.9
	Max.	31.68	10.03	9.97	9.03	3.7	9.00	30.4
TT1	Avg.	30.09	8.78	8.80	8.49	2.8	4.25	29.1
H1	Min.	28.65	7.08	7.75	8.16	2.0	2.00	24.6
	Max.	31.71	10.10	10.02	9.06	3.9	10.00	30.3
M1	Avg.	30.07	8.83	8.95	8.48	2.8	4.04	29.0
IVII	Min.	28.43	7.25	7.15	8.16	2.0	2.00	24.8
	Max.	31.69	10.11	10.05	8.99	4.3	8.00	30.4
S1	Avg.		-	-	-	-	-	-
	Min.	-	-	-	-	-	-	-
	Max.	-	-	-	-	-	-	-
S2A	Avg. Min.	<u> </u>	-	-	-	-	-	-
	Max.	<u> </u>	-	<u>-</u>	-	-	-	-
	Avg.	<u>-</u>	-	<u>-</u>	-	-	-	-
S3	Min.	<u>-</u>	-	-	-	-	-	-
	Max.	<u>-</u>	-	<u>-</u>	-	-	-	-
Notes		-		-	1 -	_	_	_

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.

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 impact monitoring period for May 2021, none of general water quality monitoring results of suspended solids (SS) obtained had exceeded neither Action Level nor Limit Level.
- 2.8.4 Details of the exceedance are presented in **Section 8**.
- 2.8.5 Mitigation measures minimizing the adverse impacts on water implemented 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 0700-1900 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 (LAeq). Leq 30min was used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. Leq 5mins 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**.

Table 3.1 Noise Monitoring Parameters, Time, Frequency and Duration

Monitoring Station	Time	Duration	Parameters
	Day time: 0700-1900 hrs (during normal weekdays)	Once per week $L_{eq \; 5min}/L_{eq \; 30min}$ (average of 6 consecutive $L_{eq \; 5min}$)	L _{eq} , L ₁₀ & L ₉₀
M1/ N_S1, M2/ N_S2, M3/ N_S3	Evening time: 1900-2300 hrs (including normal weekdays, also public holidays and Sundays)	Once per week $L_{eq 5min}$ (3 sets of $L_{eq 5min}$)	L _{eq} , L ₁₀ & L ₉₀
	Night time: 2300-0700 hrs (including normal weekdays, also public holidays and Sundays)	Once per week Leq 5min (3 sets of Leq 5min)	L _{eq} , L ₁₀ & L ₉₀

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.**

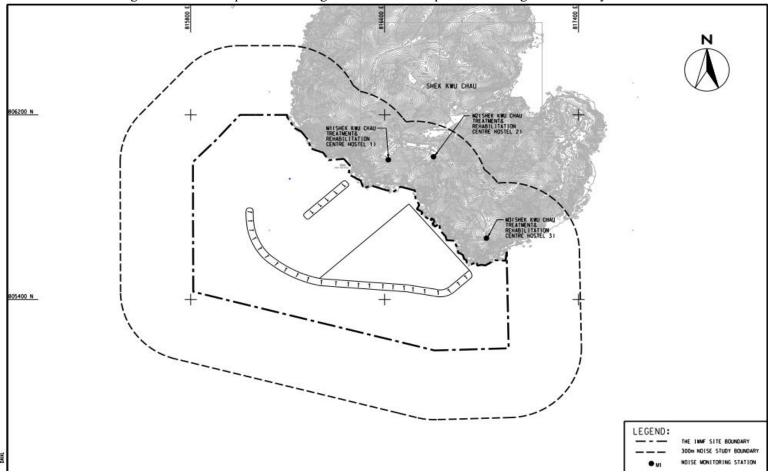


Figure 3.1 Noise monitoring locations at SKC

- 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.

Table 3.2 Noise Monitoring Location

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

- 3.4 Impact Monitoring Methodology
- 3.4.1 At each designated monitoring location, measurements of six 5-minutes A-weighted equivalent sound pressure level ["Leq 5min"] was carried out between 0700 and 1900 hours for daytime measurements on a normal weekdays (exclude 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 minutes A-weighted equivalent continuous sound pressure level (Leq 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-minutes A-weighted equivalent sound pressure level ["Leq 5min"] was carried out between 1900 and 0700 hours for evening time and night time measurements.
- 3.4.3 The monitoring procedures are as follows:
 - The microphone head of the lead level meter was normally positioned 1m 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-filed 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: ATime 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.
- For Noise monitoring was carried out for 30 mins by sound level meter. At the end of the monitoring period, noise levels in terms of L_{eq}, L₁₀ and L₉₀ were recorded. In addition, site conditions and noise sources were recorded when the equipment were 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 **Table** 3.3 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	NTi XL2
	SVANTEK 971
Sound Level Meter Calibrator	Pulsar 105

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**.

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

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

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. The 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 3, 10, 17, 24 and 31 May 2021. Impact monitoring for noise impact for evening time and night time was carried out on 3&4, 10&11, 17&18, 24&25, 31 May 2021 and 1 June 2021. 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**. No noticeable noise source was found near the monitoring station M1, M2 and M3.

Table 3.5 Summary of Field Observation

Monitoring Station	Major Noise Source
M1	Nil
M2	Nil
M3	Nil

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

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

Location	Measured Noise Level in dB(A)								
	Range of Leq 30min	Range of L _{10 30min}	Range of L _{90 30min}						
M1	54.9 – 59.8	58.3 – 63.7	52.7 – 58.3						
M2	58.5 – 62.1	63.1 – 65.8	55.3 – 59.7						
M3	57.5 – 62.8	59.5 – 65.2	55.4 – 58.6						

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).

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.

Data from impact monitoring during evening time and night time were compared with the NCO criteria. 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.

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

Location	Measured Noise Level in dB(A)								
	Range of Leq 5min	Range of L _{10 5min}	Range of L _{90 5min}						
M1	51.5 – 56.7	55.6 – 58.4	50.3 – 55.1						
M2	53.3 – 63.0	57.4 – 66.7	51.6 – 61.4						
M3	52.9 – 61.3	55.7 – 63.9	51.4 – 59.8						

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

Location	Measured Noise Level in dB(A)								
	Range of Leq 5min	Range of L _{90 5min}							
M1	50.5 – 60.3	53.8 – 61.8	48.2 - 58.3						
M2	49.8 – 59.9	53.7 – 61.6	48.2 – 57.6						
M3	53.2 – 58.9	56.1 – 60.3	51.4 – 57.6						

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, 0.0 m³ of C&D material was generated on site in the reporting month. For C&D waste, no metals were generated and collected by registered recycling collector. 0 kg of paper was generated on site and collected by the registered recycling collector. No plastic waste was collected by registered recycling collector. 0.0 L of chemical waste was collected by the licensed chemical waste collector. 71.5 m³ of other types of wastes (e.g. general refuse) was generated on site and disposed of at designated landfill. 0.0 m³ of sand fill, 193,330.0 m³ of public fill and 20,526.5 m³ of fill rock were imported during the reporting period.
- 4.3 Chemical waste generated from the cleaning of oil stain and leakage on deck of barges was stored in the chemical waste storage area on the barges.
- 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**.

Table 4.1 Quantities of Waste Generated from the Project during May 2021

Reporting Month		Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly						
		Hard Rock and		in other	Disposed as Public Fill	Imported Fill								
	Total Quantity Generat ed	Large Broken Concrete (see Note 1)	Reused in the Contra ct			Sand	Public Fill	Rock	Metals	Paper / cardboard packaging	Plastics (see Note 2)	Chemical Waste		Others, e.g. general refuse (see Note 3)
	(in ,000 m ³)	(in ,000m ³)	(in ,000 m ³)	(in ,000 m ³)	(in ,000m ³	(in ,000m ³)		(in ,000 kg)	(in ,000kg)	(in ,000 kg)	(in ,000 kg)	(in ,000 L)	(in ,000m ³)	
May 2021	0	0	0	0	0	0	193.3300	20.5265	0	0	0	0	0	0.0715

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 6.5m³ by volume.
- 4.5 Although there is not much waste generation anticipated in the coming month from the Project, the Contractor is advised to sort and store any solid and liquid waste on-site properly prior to disposal.

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-months monthly monitoring for 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**.

Table 5.1 Tagged Coral Monitoring Locations, Time and Frequency

Monitoring Location	Monitoring	Frequency	No. of Monitoring
1/10/11/01/11/15	Month/Year		Survey
	1st Month	Weekly Survey	4
10 selected hard coral	2 nd to 3 th Months	Monthly Survey	2
colonies at control site /	4 th Month (postponed	Re-tagging of Coral Colonies in Indire	
indirect impact site	to 5 th month due to	Impact Site after Typhoon Mangkhut	
	diver accident in Shek		

Monitoring Location	Monitoring Month/Year	Frequency	No. of Monitoring Survey	
	Kwu Chau in October 2018)		But vey	
	4 th Month (postponed to 5 th month due to diver accident in Shek Kwu Chau in October 2018 and further postpone to 6 th month due to adverse weather)	Re-tagging of Coral Colonies in Control Site after Typhoon Mangkhut		
	5 th Month (postponed to 6 th month due to diver accident in Shek Kwu Chau and further postponed to 7 th month due to delay of re-tagging activities at both Indirect Impact Site and Control Site)	Post Re-tagging Monthly Survey	1	
	7 th to 45 th Months (postponed to 8 th to 76 th month due to diver accident in Shek Kwu Chau in October 2018)	Quarterly Survey	13	
	46 th to 76 th Months (The marine construction work is anticipated to be completed by March 2022, the frequency of monitoring will be changed to bi-annual with reference to the Updated EM&A Mannual (Rev.E))	Bi-annually Survey	5	
16 translocated hard coral colonies and 10 selected natural hard coral colonies at recipient site R3	1st Year	Quarterly Survey	4	

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:

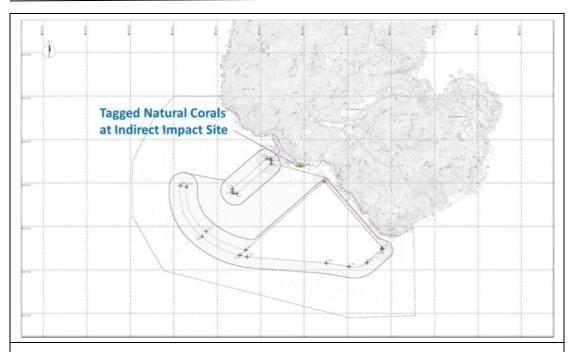


Figure 5.1 Tagged Natural Corals at Indirect Impact Site Near SKC for re-tagging after typhoon Mangkhut



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.

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

Coral #	GPS Coo	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"

Notes:

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"

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

Coral # note i	GPS Coordinates		
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:

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**.

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

Table 5.5 Action and Limit Levels for Construction Phase Coral Monitoring

Parameter	Action Level	Limit Level
Mortality	If during Impact Monitoring a 15% increase in the percentage of partial mortality on the corals occurs at more than 20% of the tagged indirect impact site coral colonies that is not recorded on the tagged corals at the control site, then the Action Level is exceeded.	on the corals occurs at more than 20% of the tagged indirect impact site coral

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

Parameter	Action Level	Limit Level
Mortality	If during Post-Translocation Monitoring a 15% increase in the percentage of partial mortality on the corals occurs at more than 20% of the translocated coral colonies that is not recorded on the original corals in the recipient site, then the Action Level is exceeded.	Monitoring a 25% increase in the percentage of partial mortality on the corals occurs at more than 20% of the

- 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 10th quarterly coral monitoring during construction phase at both Indirect Impact Site and Control Site would be scheduled in June 2021.

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:

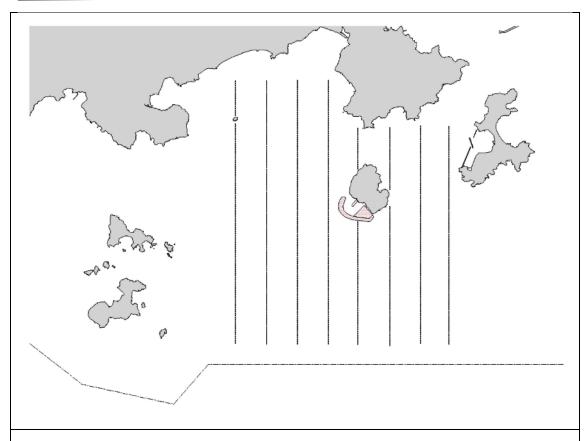


Figure 6.1 Line Transects for Marine Mammal Surveys

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 Frequency

Season	Months	Frequency
Peak Season	December, January, February,	Twice per month
N. 1.G	March, April & May	<u> </u>
Non-peak Season	June, July, August, September, October & November	Once per month

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

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

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

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

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

where S = total number of on-effort sightings

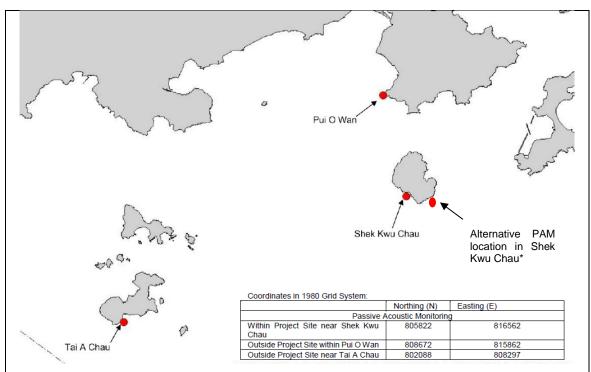
D = total number of dolphins/porpoises from on-effort sightings

E = total number of units of survey effort

SA% = 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.

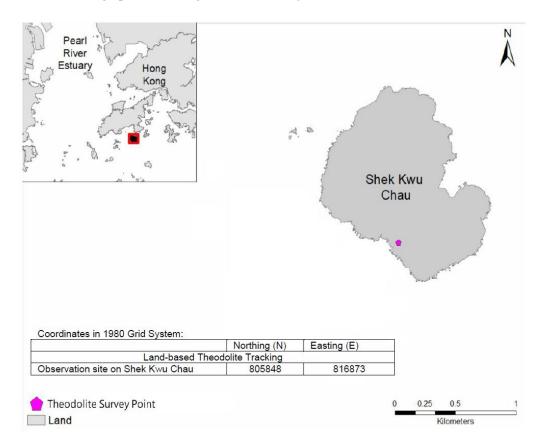


Figure 6.3 Locations of Land-based Theodolite Tracking

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 Land-based Theodolite Tracking 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.

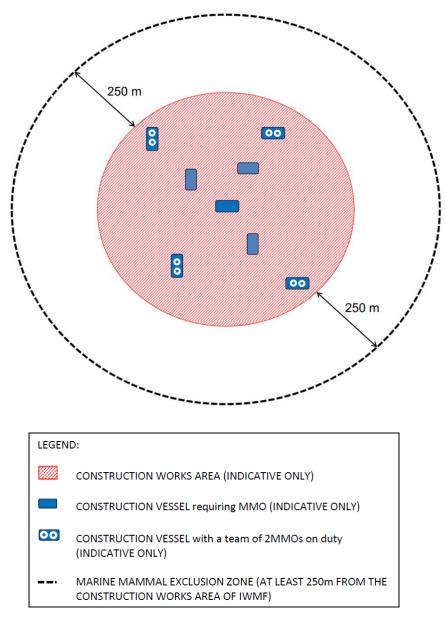


Figure 6.4 Illustration of Typical MMEZ

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 re-commenced 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.
- 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 curtain with naked eyes, the MMO will check that 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.
- 6.3.2.4 For the re-deployment of the localized silt curtains (frame-type, cage-type or 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 (frame-type, cagetype or enclosed floating-type silt curtains). Visual inspection will be conducted every an hour by MMO for confirming that there is no any 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 has 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 survey was conducted on 4 & 18 May 2021. As this is the designated peak season (December – May), two surveys were completed. A total of 81.3 km on effort (transects only) survey length was completed, 58.8% of which was conducted at Beaufort Sea State 2 or better (**Table 6.4**). One (1) opportunistic finless porpoise sighting was recorded. (**Table 6.5**, **Figure 6.5**). Representative photos taken of sighting recorded during vessel-based line-transect survey are presented in **Figure 6.6**.

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

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Date	Area*	Beaufort	Effort (km)	Season	Vessel	Effort Type**
4 May 2021	SEL	1	41.1	SPRING	SEAMAR HK	P
		2	6.7		SEAMAR	
18 May 2021	SEL	3	14.6	SPRING	HK	P
		4	18.9		11K	

^{*} As shown in **Figure. 6.1**

Table 6.5 Sightings recorded during May 2021 Vessel-based Line-transect Survey

Date	Species	Sighting No.	Time	Group Size	PSD	Behaviour	Lat.	Long.	Area	Effort	Season
4 May 2021	Finless Porpoise	97	9:40	8	N/A	Travelling	22.21828	114.0667	SEL	Opp	SPRING

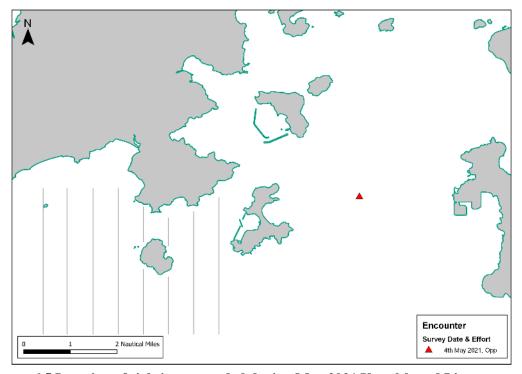


Figure 6.5 Location of sightings recorded during May 2021 Vessel-based Line-transect Survey

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









Figure 6.6 Representative Photos taken of sighting recorded during May 2021 Vesselbased Line-transect Survey

- 6.4.1.2 A review of the long term AFCD marine mammal monitoring programme, the EIA and the pre-construction baseline monitoring report for this project was conducted. Pre-construction baseline monitoring was conducted in Feb Apr 2018 and the EIA was conducted during the peak porpoise months (Dec 2008 to May 2009). The AFCD long term monitoring data and May 2019 & 2020 impact survey results could be compared directly to May 2021 Impact Survey results. It was noted that the 11th & 23rd month of impact monitoring is May 2019 & 2020 respectively and these data were included.
- 6.4.1.3 A review of the Beaufort Sea State in May survey conditions between 2009 and 2017 (only data available from AFCD at time of writing; AFCD 2018¹; 2017²; 2016³; 2015⁴; 2014⁵; 2013⁶; 2012⁷; 2011⁸; 2010⁹), EIA 2009 & Impact 2019 show that between 45.7 % and 100 % of survey effort had been conducted at Beaufort Sea State 2 or better in the past. During May 2019 Impact monitoring, 72.8 % of the survey effort was conducted at Beaufort 2 or better. For this project in May 2020, 100 % of the survey was conducted at Beaufort Sea State 2 or better and, as such, survey conditions in May 2021 were within the range of previous years.
- 6.4.1.4 A review of the porpoise sightings in the survey area for May between 2009-2017 indicated that there were fluctuations between the number of sightings usually recorded. For all weather conditions, and for the nine years data available, one year recorded zero (0) sighting (2012 conducted by AFCD), three years recorded two (2) sightings (2010, 2014, 2016 conducted by AFCD), two years recorded three (3) sightings (2009 included in EIA and 2017 conducted by AFCD), two years recorded five (5) sightings (2013, 2015 conducted by AFCD) and one year recorded seven (7) sightings (2009 conducted by AFCD). For impact monitoring in May 2019 & 2020, one (1) sighting and four (4) on effort sighting were recorded respectively. For impact monitoring in May 2021 conducted by ET, one opportunistic finless porpoise sighting

was recorded. Effort varied considerably between years and and the average number of sightings (per km) varied between 0.0 and 0.12 km⁻¹. For May 2019 & 2020, the calculated encounter rates were 0.01 & 0.05 sightings km⁻¹ respectively. There is no trend in encounter rates recorded by the AFCD long term monitoring programme, the inherent variability for surveys that focus on relatively small populations of highly mobile individuals is highlighted.

- The impacts of the Project on marine mammals as predicted in the EIA were that 6.4.1.5 construction activities would cause individuals to move away from the area. With only a small area being surveyed by vessels, with no control area, and as porpoise density is obviously low in such a small area, it is difficult to discern significant changes in sightings occurrence from vessel surveys alone. The sightings data presented in AFCD long term monitoring reports indicate that a sighting rate of 0 for the month of May is not usual and has been recorded previously in 2012, however, there is no significant trend within these years. Since construction commenced, there is a decrease (0.5 sighting per 40km in 2019) and then an increase (2.0 4 sightings per 40 km in 2020) to again, a decrease in 2021, when compared to the EIA survey in 2009 (1.8 sightings per 40km) and the AFCD long term monitoring data in 2017 (1.1 sightings per 40km). This observation is only for daylight hours, and visual detection. The number of sightings in May 2021 is comparable to the numbers recorded during AFCD long term monitoring studies, prior to the commencement of IWMF and the first two year's impact monitoring records.
- 6.4.1.6 This observation was only for daylight hours, and visual detection. The analyses of the static PAM dataset provided detailed information on diurnal occurrence patterns. Each static PAM station recorded porpoise at each site every day of the PAM study and therefore, showed that the area immediately adjacent to the Project site has not been abandoned during parts of the designated peak season for porpoise. It was noted that the encounter rate for May 2021 was equal to impact monitoring result of May 2019 & 2020, prior to early construction stage at SKC.
- 6.4.2 PAM and Land-based Theodolite Tracking
- 6.4.2.1 30 days of PAM surveys were started at 1 May 2019 and completed until the end of May 2019. Multiple PAM systems were deployed at three sites. The PAM system located at the IWMF was lost, however, an alternative data set had been identified. The PAM systems at the two control sites Tai A Chau and Pui O were recovered on 3 August 2019. A summary of marine mammal detections showed that porpoise were recorded every day of deployment at each site, but at varying frequencies. The detailed theodolite result was presented in 17th Monthly EM&A report (November 2019) while detailed PAM result was presented in 18th Monthly EM&A report (December 2019).
- 6.4.2.2 For the baseline study, the DPM for each site was 11,160 (Shek Kwu Chau), 16,089 (Tai A Chau) and 3645 (Pui O Wan), totalling 30,894 DPM across all three sites, compared to DPMs of 4740 (Shek Kwu Chau), 7725 (Tai A Chau) and 23,986 (Pui O Wan), totalling 36,451 DPM, for the impact phase study. As the impact phase study was longer than the baseline study, it is not appropriate to directly compare total counts of DPM, however, the DPM rate (the average number of detections per day) for each site can be more directly compared. During the baseline study, Shek Kwu Chau averaged 338.2 DPM per day compared to 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 to 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 to 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, thirty four days of theodolite tracking were completed between February 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. From the Marine Mammal Watching observation records and MMEZ monitoring log records, no Finless Porpoise or other marine mammals were observed within or around the MMEZ and silt curtains in the reporting month.

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. <a href="http://www.afcd.gov.hk/english/conservation/con_mar/con_mar_chi/con_mar_ch
- 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. <a href="http://www.afcd.gov.hk/english/conservation/con_mar/con_mar_chi/con_mar_ch
- 3. Agriculture, Fisheries and Conservation Department (AFCD) 2016. *Annual Marine Mammal Monitoring Programme April 2015-March 2016*) The Agriculture, Fisheries and Conservation Department, Government of the Hong Kong SAR. http://www.afcd.gov.hk/english/conservation/con_mar_chi_chi.html
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 <a href="http://www.afcd.gov.hk/english/conservation/con_mar/con_mar_chi/con_mar_c
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 <a href="http://www.afcd.gov.hk/english/conservation/con_mar/con_mar_chi/con_mar_c
- 7. 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.

 <a href="http://www.afcd.gov.hk/english/conservation/con_mar/con_mar_chi/con_mar_c
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 <a href="http://www.afcd.gov.hk/english/conservation/con_mar/con_mar_chi/con_mar_c
- 9. 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.

 <a href="http://www.afcd.gov.hk/english/conservation/con_mar_chi/con_m

7. WHITE-BELLIED SEA EAGLE

7.1 Monitoring Requirement

- 7.1.1 On Shek Kwu Chau Island, a nest of WBSE is located about 60 m above ground within a hillside shrubland habitat, 130 m in-land from shore, about 550 m away from the proposed reclaimed land, with no human access. 3 phases monitoring programme will be comprised of pre-construction phase, construction phase and operation phase.
- 7.1.2 The Pre-Construction WBSE monitoring was started on 30 January 2018 and the location of WBSE nest was confirmed on 21 February 2018 and it is located at the western part of SKC Island (Figure 7.1). Two adults and two chicks were also recorded on 5th March 2018 survey till the end of the Pre-construction monitoring on 15th May 2018. Construction Phase monitoring were carried out followed by the commencement of the Construction Phase on 28th June 2018.
- 7.2 WBSE Monitoring Parameters, Time, Frequency
- 7.2.1 The objective of the construction phase monitoring should be to verify the utilisation of the area by WBSE, their responses to construction disturbance, as well as the effectiveness of the proposed mitigation measures. Throughout the construction phase, field surveys should be conducted twice per month during their core breeding season (from December to May), and once per month outside their core breeding season (from June to November). The monitoring frequency should be increased to weekly during the incubation period of each year. In order to confirm their foraging ground near the construction site, it is necessary to conduct daily monitoring during the first week of nestling period in each year.
- 7.2.2 Since the location of the WBSE nest was located at the southwest of SKC within the hillside shrubland, it is impossible to observe the eggs during incubation period. Therefore, monitoring with increased frequency during incubation period will be continued until chick was seen in the nest. Daily monitoring 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:

Table 7.1 List of Equipment Used during Construction Phase Monitoring

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

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 along the western part of SKC, boat survey was used for the monitoring survey. In order to increase the chance of finding the WBSEs, monitoring survey was carried out early in the morning. The weather condition of monitoring survey was shown in **Table 7.2**.

Table 7.2 Weather Conditions during the WBSE Monitoring

Date	Condition	Temperature ($^{\circ}$ C)
13 th May 2021	- South wind force 3 to 4 - Sunny	32
27 th May 2021	- South wind force 4 - Sunny	30

- 7.5.2 No abnormal behavior of the recorded adults during the construction phase in May 2021. Two adults of WBSE were recorded during the monitoring survey (Figure 7.2). All marine works during the monitoring period did not show any affects to the WBSE.
- 7.5.3 No disturbances from anthropogenic activities on the island were recorded during the monitoring survey. No invasion of other fauna species was recorded as well.
- 7.5.4 Construction phase monitoring will be continued at twice per month frequency 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.



Figure 7.1 Location of WBSE Nest on SKC

7.5.5 Photo record of WBSE from the survey this month is shown below:



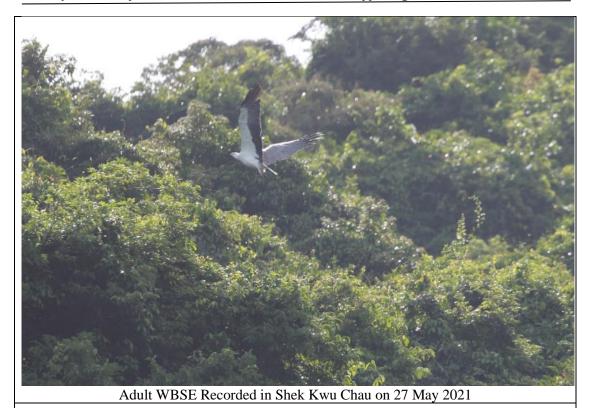


Figure 7.2 Photo Records of WBSE on SKC During the Reporting Period

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

8.1 The Environmental Complaint Handling Procedure is shown in below **Figure 8.1**:

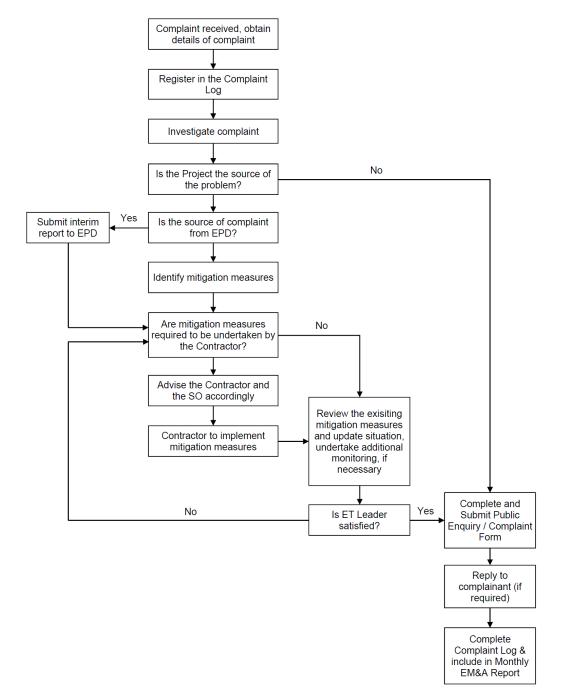


Figure 8.1 Environmental Complaint Handling Procedures

8.2 No exceedance of the Action and Limit Levels of the regular WBSE monitoring was recorded during the reporting period.

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

Date	B1	B2	В3	B4	CR1	CR2	F1A	H1	S1	S2A	S3	M1
03-05-2021												
05-05-2021												
07-05-2021												
10-05-2021												
12-05-2021												
14-05-2021												
17-05-2021												
19-05-2021												
21-05-2021												
24-05-2021												
26-05-2021												
28-05-2021												
31-05-2021												
No. of SS Exceedances	0	0	0	0	0	0	0	0	0	0	0	0

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					

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

Date	B1	B2	В3	B4	CR1	CR2	F1A	H1	S1	S2A	S3	M1
03-05-2021												
05-05-2021												
07-05-2021												
10-05-2021												
12-05-2021												
14-05-2021												
17-05-2021												
19-05-2021												
21-05-2021												
24-05-2021												
26-05-2021												
28-05-2021												
31-05-2021												
No. of SS Exceedances	0	0	0	0	0	0	0	0	0	0	0	0

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					

- 8.3 None of the general water quality monitoring results of suspended solids (SS) obtained had exceeded neither Action Level nor Limit Level.
- 8.4 No project-related Action Level & Limit Level exceedance was recorded from the 1 May 2021 to 31 May 2021 as shown in **Appendix N**.
- 8.5 No notification of summons and prosecution was received in the reporting period.
- 8.6 Statistics on complaints, notifications of summons and successful prosecutions are summarized in **Appendix O**.

9. EM&A SITE INSPECTION

9.1 Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting period, site inspections were carried out on 4, 13, 18, 25 and 31 May 2021 at the site portions listed in **Table 9.1** below.

Table 9.1 Site Inspection Record

Date	Inspected Site Portion	Time
4 May 2021	Portion 1, 1A & 1B (near SKC)	10:30 – 11:30 AM
13 May 2021	Portion 1, 1A & 1B (near SKC)	10:30 – 11:30 AM
18 May 2021	Portion 1, 1A & 1B (near SKC)	10:30 – 11:30 AM
25 May 2021	Portion 1, 1A & 1B (near SKC)	10:30 – 11:30 AM
31 May 2021	Portion 1, 1A & 1B (near SKC)	08:15 – 09:15 PM

- 9.2 One joint site inspection with IEC was carried out on 18 May 2021.
- 9.3 Environmental deficiencies were observed during weekly site inspection. Key observations during the site inspections and during the reporting period are summarized in **Table 9.2**.

Table 9.2 Site Observations

Date	Environmental Observations	Follow-up Status
4 May 2021 (Site inspection)	Observation(s) and Recommendation(s) 1. On 宏建躉 3, EP and CNP were not displayed.	1. On 宏建躉 3, EP and CNP had been displayed.
13 May 2021 (Site inspection)	Observation(s) and Recommendation(s) No major observation was observed.	Nil.
18 May 2021 (Site inspection)	Observation(s) and Recommendation(s) 1. At loading points, stockpile of dusty material should only be stored behind the concrete blocks, soil at the edge of concrete blocks should be removed. 2. At workshop area, oil-contaminated soil should be cleared and treated as chemical waste.	 At loading points, soil at the edge of concrete blocks had been removed. At workshop area, oil-contaminated soil had been cleared and treated as chemical waste.

Date	Environmental Observations	Follow-up Status
	Observation(s) and Recommendation(s) 1. Excessive black smoke was emitted from the engine of 志富 at loading point.	1. Maintenance work for engine of 志富 had been completed and the situation had been rectified.
25 May 2021 (Site inspection)	2. At GI machine BM17, oil stain was found on the ground under GI machine BM17, oil contaminated soil should be removed and treated as chemical waste.	2. At GI machine BM17, oil contaminated soil had been removed and treated as chemical waste.
	3. At workshop area, oil stain was found on the ground near the drip tray for diesel tank, oil contaminated soil should be removed and treated as chemical waste.	3. The oil stain had been cleared and the diesel tank had been removed off site subsequently. Oil contaminated soil had been removed and treated as chemical waste.
31 May 2021 (Site inspection)	Observation(s) and Recommendation(s) 1. At warehouse No.8, paints and organic solvents should be placed at designated storage place for chemical storage.	1. At warehouse No.8, paints and organic solvents had been removed and placed at designated storage place for chemical storage.

- 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
 - PVD Remedial Works
 - Installation of Settlement Markers
 - Seawall Portion:
 - Installation of caisson
 - Installation of Chinese Pod
- 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;
 - Confirmation of the absence of silt content in the rock filling material and the filling work is properly conducted; and
 - Dust control of exposed soil surface and stockpile of dusty material at reclaimed area.
- 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 35th monthly Environmental Monitoring and Audit (EM&A) Report presents the EM&A works undertaken during the period from 1 May to 31 May 2021, 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 and WBSE monitoring were carried out in the reporting period. No project-related exceedance of the Action and Limit Level was recorded from 1 May 2021 to 31 May 2021.
- 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 on-site housekeeping and the proper storage of the chemicals and construction waste.
- 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.

Contract No. EP/SP/66 Integrated Waste Mana	/12 gement Facilities, Phase 1	Keppel Seghers – Zhen Hua Joint Venture
Appendix A	Master Programme	



Contract No. EP/SP/66

66/12	eP.	環境保護署
co 1	L	Environmental Protection Departme

古 質 五 格 斯 - 紙 筆 KEPPELSEGHERS-ZHEN HUA											ntegrated Waste Mana	<u>agement Fa</u>	<u>acilities,</u> i	<u> Pnase 1</u>		
ID Ac	ctivity Name	Planned Duration	At Completion Duration	Duration % Complete	Activity % Complete	Remaining Duration	Primary Constraint Current Start	Current Finish	Late Start	Late Finish	Total Float M42 Remarks	May		Jun 202	21 Jul	Aug
ED CD CC 10 MDCA M	MAD. Decompress for Decime and Construction Works WDS MAD.	2794	2794	46.03%		1508	22-Nov-17 A	16 Jul 25	31-May-21	21 May 27	674	42		43	44	45
	M42 Programme for Design and Construction Works WP6-M42		2794			354		16-Jul-25		16-Jul-25	0/4			·		
	6A-M42.01 Key Dates	2794		87.33%			22-Nov-17 A				0					
	-M42.01.1 Contractual Key Dates	2794	2794	87.33%		354 298	22-Nov-17 A 22-Nov-17 A		27-Jul-24		0					
	M42.01.1.1 Design and Construction Phase Contract Award' Date of Acceptance of Tender	0	2738	89.12% 100%	100%		Mandatory Start 22-Nov-17 A	21-May-25	27-Jul-24	21-May-25	0			·		
	Date of Commencement of the Design and the Works	0	0		100%		Mandatory Start 15-Dec-17 A							·		
	Driginal Substantial Completion of the Works	0	0	0%	0%		Mandatory Finish	27-Jul-24*		27-Jul-24	0					
	extended Substantial Completion of The Works	0	0	0%	0%	0		21-May-25		21-May-25	0			·		
	M42.01.1.3 Extension of Time Granted	298	298	0%		298	27-Jul-24		27-Jul-24		0					
01-1015-1(3)(M12) E:	xtension of time granted (Claim No.1 to No.53) *Claim No.9 excluded	298	298	0%	0%	298	27-Jul-24	21-May-25	27-Jul-24	21-May-25	0					
01-1060 Is	ssuance of FS Certificate	0	0	0%	0%	0	Mandatory Finish	29-Oct-24*		29-Oct-24	0					
EP_SP_66_12-WP6A-M	M42.01.1.2 Operation Phase	56	56	0%		56		16-Jul-25	22-May-25	16-Jul-25	0					
01-1030 Co	Commencement of Operation	0	0		0%	0	Mandatory Start 22-May-25*		22-May-25		0					
	ssue Certificate of Completion of the Works (56 days after Substantial Completion)	0	0	0%	0%		Finish On or Befc	16-Jul-25*		16-Jul-25	0					
EP_SP_66_12-WP	6A-M42.02 Contract Preliminaries	63	244	0%		63	01-Dec-20 A	01-Aug-21	09-Jun-21	01-Aug-21	0					
EP_SP_66_12-WP6A-	-M42.02.3 Erection of Concrete Batching Plant on Artificial Island	63	244	0%		63	01-Dec-20 A	01-Aug-21	09-Jun-21	01-Aug-21	0					
	rection of Concrete Batching Plant	60	235	10%	10%	54	01-Dec-20 A	23-Jul-21	09-Jun-21	01-Aug-21	9					23-Jul-21, Erection
	Commissioning of Concrete Batching Plant	0	0	0%	0%		Finish On	01-Aug-21*		01-Aug-21	0					◆ Commissio
EP_SP_66_12-WP	6A-M42.03 Licence/Permit Applications	2190	2338	33.7%		1452	27-Dec-18 A	21-May-25	31-May-21	21-May-27	730					
	-M42.03.1 License/Permit for Construction	2120	2120	31.51%		1452	02-Aug-19 A	21-May-25	15-Jun-21	21-May-27	730					
03-1090 E	PD APCO(SP) License for Concrete Batching Plant	120	120	0%	0%	120	31-May-21	27-Sep-21	27-Oct-21	23-Feb-22	149	31-May-	-21			
	CNP for 24Hrs	2120	2120	31.51%	31.51%	1452	02-Aug-19 A	21-May-25	31-May-23	21-May-27	730					
= \ /	andscape and Visual Plan	180	478	50%	50%	90	08-May-20 A	28-Aug-21	15-Jun-21	12-Sep-21	15					
	-M42.03.4 Fire Services Installations (FSI) Certificatie	626	951			169	10-Apr-19 A		25-Jun-21		7					
	M42.03.4.3 Fire Engineering Report	550	846		0.4.400/	64			25-Jun-21		7			·		:
	Perparation and Submission of Fire Engineering Report to FSD	550	814		94.18%	32 14	10-Apr-19 A		25-Jun-21		25 7			·		aration and Submiss
	Approval of Fire Engineering Report by FSD M42.03.4.1 Fire Services Installations Certificate Inspection	105	14 350		0%	169	19-Jul-21 01-Dec-20 A	02-Aug-21	27-Jul-21	_	7				19-Jul-21	02-Aug-21
	General Building Plans and FSI Provision Design Submission to FSD	90	211		66.67%	30	01-Dec-20 A			09-Aug-21	41				29-Jun-21 Genera	al Building Plans and
· · · · ·	Approval of General Building Plans and FSI Provision Design Submission	105	105	0%	0%	105	02-Aug-21	15-Nov-21	10-Aug-21		7 Revised durtation 135 to 105					ug-21
	-M42.03.5 Air Pollution Control (Specified Processes) License	600	1021	77.5%	-,-	135	27-Dec-18 A		31-May-21		0					-9
	Early Engagement With EPD SP Licensing Department for Information exchange	600	1021	77.5%	77.5%	135	27-Dec-18 A		31-May-21	12-Oct-21	0					
	6A-M42.04 General Submissions	1440	1475	85.07%		215	18-Dec-17 A		21-Nov-21		1237			·		
	-M42.04.1 Contractor's Plans Submission and Approval	1440	1475	85.07%		215	18-Dec-17 A	31-Dec-21	21-Nov-21	•	1237					
	echnical Resources Plan (TRP)	240	1473	10.42%	30%	215	19-Dec-17 A		22-Mar-23	22-Oct-23	660			·		
```	Vorks Plan (WP)	90	1475	0%	30%	215	18-Dec-17 A			22-Oct-23	660					
- ''	Operation Plan (OP)	240	1320	75%	75%	60	18-Dec-17 A		29-Jul-23	26-Sep-23	789			·		29-Jul-21, Ope
· · · · · · · · · · · · · · · · · · ·	Asset Management Plan (AMP)	120	120	0%	0%		Start On or Before 31-May-21*	27-Sep-21	21-Nov-21	20-Mar-22	174	31-May-2	21*			
	Handback Plan (HP)	120	120		0%		Start On or Before 31-May-21*	27-Sep-21	21-Nov-21		174	31-May-2				
, ,	M42.04.1.1 Provisional Assessment (PA)	180	180	0%		180		26-Nov-21	23-Nov-24		1272			·		
04-1500(1)10 Pi	Preliminary As se ss mant	180	180	0%	0%	180	31-May-21	26-Nov-21	23-Nov-24	21-May-25	1272	31-May-				
EP SP 66 12-WP	6A-M42.1 Submission & Approval of General Building Plan	60	149	0%		60	03-Mar-21 A	29-Jul-21	31-May-21	29-Jul-21	0					
	Process Building & Wastewater Treatment Plant	60	60	0%	0%	60	31-May-21	29-Jul-21	31-May-21	29-Jul-21	0 New Activity	31-May-		·		29-Jul-21, Pro
04-1610(M42) Tu	urbine Hall	60	119	50%	50%	30	03-Mar-21 A	29-Jun-21	30-Jun-21	29-Jul-21	30 New Activity				29-Jun-21, Turbin	e Hall, Turbine Hall,
04-1620(M42) C	CCCW	60	119	50%	50%	30	03-Mar-21 A	29-Jun-21	30-Jun-21	29-Jul-21	30 New Activity				29-Jun-21, CCCW	I, CCCW, 29-Jun-21
04-1630(M42) CI	Chimney	60	119	50%	50%	30	03-Mar-21 A	29-Jun-21	30-Jun-21	29-Jul-21	30 New Activity				29-Jun-21, Chimn	ney, Chimney, 29-Jun
04-1640(M42) M	IT & Water Treatment Plant	60	60	0%	0%	60	31-May-21	29-Jul-21	31-May-21	29-Jul-21	0 New Activity	31-May-	-21			29-Jul-21, M T
04-1650(M42) Re	Reception Pavilion	60	60	0%	0%	60	31-May-21	29-Jul-21	31-May-21	29-Jul-21	0 New Activity	31-May-	-21			29-Jul-21, Re
04-1660(M42) A	Administration building	60	60	0%	0%	60	31-May-21	29-Jul-21	31-May-21	29-Jul-21	0 New Activity	31-May-				29-Jul-21, Adı
04-1670(M42)	levated Driveway	60	119	50%	50%	30	03-Mar-21 A	29-Jun-21	30-Jun-21	29-Jul-21	30 New Activity				29-Jun-21, Elevate	ed Driveway, Elevate
04-1680(M42)	WMF Substation	60	119	50%	50%	30	03-Mar-21 A	29-Jun-21	30-Jun-21	29-Jul-21	30 New Activity				29-Jun-21, IWMF	Substation, IWMF S
EP_SP_66_12-WP	6A-M42.05 Design Submissions	1623	1738	57.92%		683	11-Jul-18 A	13-Apr-23	31-May-21	13-Dec-24	610					
EP_SP_66_12-WP6A-	-M42.05.01 AIP Design Package Submissions	1422	1258	85.72%		203	11-Jul-18 A	19-Dec-21	31-May-21	15-Apr-23	482					
EP_SP_66_12-WP6A-M	M42.05.01.01 AIP Process and Layout Design (2.1)	314	947	47.45%		165	10-Apr-19 A	11-Nov-21	11-Aug-21	23-Nov-21	12					
	-M42.05.01.01.2 MSW treatment process design for mechanical treatment (2.1.02)	105	105			105		11-Nov-21	11-Aug-21		12					<u></u>
	Mechanical Treatment Plant	105	105		0%		Finish On or After 30-Jul-21		11-Aug-21		12				30-Jul-	21
	I-M42.05.01.01.6 Site Master Layout Plan and Plant Layout (2.1.06)	60	149		450/	60					75					00 141 04 634
	Site Master Layout Plan and Plant Layout	60	149		45%	60			14-Aug-21		75					29-Jul-21, Site
	I-M42.05.01.01.7 Statutory Fire Compliance (2.1.25)	30	846		250/	64					72					02 100
	rire Safety Compliance M42.05.01.02 AIP Ground Treatment, Reclamation, Seawall, Breakwater, Berth (2.2)	30 135	846 125		25%	125	·	-	11-Aug-21 03-Jul-21		72			·		02-Aug-21
	M42.05.01.02 AIP Ground Treatment, Reclamation, Seawall, Breakwater, Berth (2.2) Onshore crane Facility (2.2.11)	135	135 135		0%	135 135	31-May-21 31-May-21	12-Oct-21 12-Oct-21		14-Nov-21 14-Nov-21	33	31-May-	-21	. <u></u>		
	Onshore vessel power supply system (2.2.12)	135	135	0%	0%	135	31-May-21	12-Oct-21	03-Jul-21		33	31-May-		·		
	M42.05.01.03 AIP Incineration Plant Buildings (2.3)	1398	1258		U /o	203	The second secon				127	31-ividy-	-1			
	-M42.05.01.03.1 General Layout Drawings and Fire Saftey Strategy (2.3.00)	869	1001			30			31-May-21		300			·		
EP SP 66 12-WP6A-													1			

3-Month Rolling Programme (May 2021)

Remaining Work Actual Work

Actual Milestone Critical Milestone

Critical Remaining Work Milestone

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



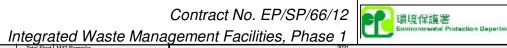
KEPPEL SEGIERS - 21	DRES HULA FOUNT VENTURE  Activity Name	Planned	At Completion	Duration %	Activity %	Remaining Pri	rimary Constraint Current Start	Current Finish	Late Start	Late Finish	Total Float M/2 Remarks	nanagement Facilities, Phase 1
,	Autivity (value	Duration	Duration	Complete	Complete	Duration	mary constraint Current start	Current Fillish	Late Start	Late Fillish	Total Float WHZ Herrians	May Jun Jul Aug
<b>05-1220</b>	ACC Equipment Yard	135	270	77.78%	77.78%	30	03-Oct-20 A	29-Jun-21	27-Mar-22	25-Apr-22	300	42 43 44 45 29-Jun-21, ACC Equipment Yard, ACC Eq
	WP6A-M42.05.01.03.2 Foundation design (2.3.01)	135			7711-070	135	31-May-21		31-May-21		0	
05-3070	Chimney	135	135	0%	0%	135	31-May-21	12-Oct-21	31-May-21		0	31-May-21
	WP6A-M42.05.01.03.3 Structural design (2.3.02)	135	135	0%		135	07-Aug-21		07-Aug-21		0	<u> </u>
05-1330	Chimney	135	135	0%	0%	135	07-Aug-21	19-Dec-21	07-Aug-21		0	07-Aug-21
EP SP 66 12-V	WP6A-M42.05.01.03.6 Fire services installation design (2.3.05)	1174	960	93.61%		75	28-Dec-18 A	13-Aug-21	31-May-21	13-Oct-21	61	
	-WP6A-M42.05.01.03.6.1 Process Building (2.3.05.01)	1174	947	93.61%		75	10-Jan-19 A	13-Aug-21	07-Jun-21	13-Oct-21	61	
<b>3</b> 05-1510	Fire Systems	105	947	28.57%	5%	75	10-Jan-19 A	13-Aug-21	31-Jul-21	13-Oct-21	61	13-A
o5-1520	Fire engineering	550	832	90.91%	5%	50	10-Apr-19 A	19-Jul-21	07-Jun-21	26-Jul-21	7	19-Jul-21, Fire engineeri
05-1530	FS schematics	105	879	93.33%	5%	7	10-Jan-19 A	06-Jun-21	24-Jun-21	30-Jun-21	24	06-Jun-21, FS schematics, FS schematics, 06-Jun-21
	-WP6A-M42.05.01.03.6.3 Turbin Hall Building (2.3.05.03)	105	960	28.57%		75	28-Dec-18 A		31-May-21	13-Oct-21	61	
05-5400	Fire Systems (2.3.05.03.01)	105	960	28.57%	5%	75	28-Dec-18 A		31-Jul-21	13-Oct-21	61	13-A
	) FS schematics (2.3.05.03.03)	105	916	70.48%	5%	31	28-Dec-18 A	-	31-May-21	30-Jun-21	0	FS schematics (2.3.05.03.03), 30-Jun-2
	-WP6A-M42.05.01.03.6.5 Elevated Drive Way and Associated Structures (2.3.05.05)	180	607	58.33%		75	16-Dec-19 A		31-May-21	13-Oct-21	61	
05-5445 (M22)	• • • • • • • • • • • • • • • • • • • •	180	607	58.33%	5%	75	16-Dec-19 A		31-Jul-21	13-Oct-21	61	13-/
	) FS schematics	180	563	82.78%	5%	31	16-Dec-19 A		31-May-21	30-Jun-21	0	FS schematics, 30-Jun-21, 30-Jun-21,
	2-WP6A-M42.05.01.03.6.6 Reception Pavilion (2.3.05.06)	270	680	72.22%		75	04-Oct-19 A	13-Aug-21	31-May-21	13-Oct-21	61	10 001011141003 00 0011 21,00 0011 21,10
	) Fire Systems (2.3.05.06.01)	270	680	72.22%	5%	75	04-Oct-19 A	13-Aug-21	31-Jul-21	13-Oct-21	61	13-A
	FS schematics (2.3.05.06.03)	270	636	88.52%	5%	31	04-Oct-19 A	30-Jun-21		30-Jun-21	0	FS schematics (2.3.05.06.03), 30-Jun-2
	2-WP6A-M42.05.01.03.6.7 Compressor & Closed Circuit (2.3.05.07)	140	703	46.43%	378	75			31-May-21		61	10 30161112103 (2.0.00.00), 00 01112
	Fire Systems (2.3.05.07.01)	140	703	46.43%	5%	75	11-Sep-19 A 11-Sep-19 A		31-May-21	13-Oct-21	61	13-A
	FS schematics (2.3.05.07.03)	140	659	77.86%	5%	31	11-Sep-19 A	-	31-May-21		0	FS schematics (2.3.05.07.03), 30-Jun-2
	WP6A-M42.05.01.03.7 Building services design (excluding fire services installation design) (2.3.0	-			5%				-			F5 Scrientaucs (2.3.03.07.03), 30-3ult-2
5P_5P_66_12-V 05-1560	MVAC (6 Packages)	1093 105	1239 937	83.17% 38.1%	38.1%	184		03-Aug-21	08-Jun-21 20-Aug-21		122 81	02 Aug 21
	, , ,											03-Aug-21,
05-1570	Odour Control	135	1125	48.15%	5%		tart On or After 11-Jul-18 A	08-Aug-21	15-Aug-21	23-Oct-21	76	08-Aug-
05-1580	Plumbing (7 Packages)	210	877	95.24%	65%		tart On or After 15-Jan-19 A	09-Jun-21	16-Jun-21	25-Jun-21	16	09-Jun-21, Plumbing (7 Packages), Plumbing (7 Packa
05-1590	Drainage (7 Packages)	210	877	95.24%	25%		tart On or After 15-Jan-19 A	09-Jun-21	16-Jun-21	25-Jun-21	16	09-Jun-21, Drainage (7 Packages), Drainage (7 Package
05-1600	ELV (7 Packages)	135	907	74.07%	65%	35 S	tart On or After 10-Jan-19 A	04-Jul-21	21-Jun-21	25-Jul-21	21	04-Jul-21, ELV (7 Packages), ELV (
05-1610	Lifts and Escalators (2 Packages)	135	594	43.7%	5%	76 S	tart On or After 30-Dec-19 A	14-Aug-21	20-Jul-21	03-Oct-21	50	14-
<b>5</b> 05-1630	Building Management System (BMS) (7 Packages)	135	310	33.33%	5%	90 S	tart On or After 23-Oct-20 A	28-Aug-21	18-Sep-21	16-Dec-21	110	
05-1770	Vehicle & Container Wash System	184	184	0%	0%	184	31-May-21	30-Nov-21	25-Sep-21	27-Mar-22	117	31-May-21
o5-1770-1(M20)	Water Cannon System	135	723	97.78%	45%	3	11-Jun-19 A	02-Jun-21	08-Jun-21	10-Jun-21	8	02-Jun-21, Water Cannon System, Water Cannon System, 02-
05-1770-2 (5a)	Process CCTV System	135	135	0%	0%	135	31-May-21	12-Oct-21	18-Nov-21	01-Apr-22	171	31-May-21
EP SP 66 12-W	VP6A-M42.05.01.04 AIP Mechanical Treatment Plant Building (2.4)	946	1132	85.73%		135	07-Sep-18 A	12-Oct-21	31-May-21	19-Aug-22	311	
05-1640	Architectural Design (2.4.00)	105	1057	42.86%	65%	60	07-Sep-18 A	29-Jul-21	08-Mar-22	06-May-22	281	29-Jul-21, Archi
05-1650	Foundation design (2.4.01)	105	799	0%	5%	105 S	tart On or After 07-Jul-19 A	12-Sep-21	19-Dec-21	02-Apr-22	202	
05-1660	Structural design (2.4.02)	457	846	77.02%	5%	105 S	tart On or After 21-May-19 A	12-Sep-21	07-May-22	19-Aug-22	341	
05-1670	Electrical and instrumentation works design (2.4.03)	126	126	0%	0%	126	31-May-21	03-Oct-21	21-Jul-21	23-Nov-21	51	31-May-21
05-1680	Mechanical works design (2.4.04)	126	126	0%	0%	126	31-May-21	03-Oct-21	25-Aug-21		86	31-May-21
05-1690	Fire services installation design (2.4.05) (3 Packages)	105	834	70.48%	5%	31	20-Mar-19 A	30-Jun-21	31-May-21		0	Fire services installation design (2.4.05
	WP6A-M42.05.01.04.7 Building services design (excluding fire services installation design) (2.4.0	897			378	135	20-Mar-19 A	12-Oct-21	_	16-Dec-21	65	The services installation design (2.4.0.
05-1700	LV and Emergency Power Distribution Design	17	815		5%		tart On or After 20-Mar-19 A		14-Jul-21		44	11-Jun-21, LV and Emergency Power Distribution Des
05-1710	MVAC	135	873	44.44%			tart Off of Arter		14-0ul-21	25-0ui-21		
		75	0/3	44.44 %			tort On or After 25 Mar 10 A	_	10 Aug 21	22 Oct 21		
05-1720		/5	75	00/	5%		tart On or After 25-Mar-19 A	13-Aug-21	10-Aug-21		71	
- 05 4700	Odour Control	405	75	0%	0%	75 S	tart On or After 31-May-21*	13-Aug-21 13-Aug-21	10-Aug-21	23-Oct-21	71	31-May-21* 13-
	Plumbing	135	829	80.74%	0% 5%	75 S	tart On or After 31-May-21* tart On or After 20-Mar-19 A	13-Aug-21 13-Aug-21 25-Jun-21	10-Aug-21 31-May-21	23-Oct-21 25-Jun-21	71 0	31-May-21* 13- <i>h</i> Plumbing, 25-Jun-21, 25-Jun-21, Plumbing
05-1740	Plumbing Drainage	135	829 829	80.74% 80.74%	0% 5% 5%	75 S 26 S 26 S	tart On or After 31-May-21* tart On or After 20-Mar-19 A tart On or After 20-Mar-19 A	13-Aug-21 13-Aug-21 25-Jun-21 25-Jun-21	10-Aug-21 31-May-21 31-May-21	23-Oct-21 25-Jun-21 25-Jun-21	71 0 0	31-May-21* 13- Plumbing, 25-Jun-21, 25-Jun-21, Plumbing Diainage, 25-Jun-21, 25-Jun-21, Drainage
05-1740 05-1750	Plumbing Drainage ELV	135 135	829 829 859	80.74% 80.74% 58.52%	0% 5% 5% 5%	75 Si 26 Si 26 Si 56 Si	tart On or After 31-May-21* tart On or After 20-Mar-19 A tart On or After 20-Mar-19 A tart On or After 20-Mar-19 A	13-Aug-21 13-Aug-21 25-Jun-21 25-Jun-21 25-Jul-21	10-Aug-21 31-May-21 31-May-21 31-May-21	23-Oct-21 25-Jun-21 25-Jun-21 25-Jul-21	71 0 0 0	31-May-21* 13- Plumbing, 25-Jun-21, 25-Jun-21, Plumbing Diainage, 25-Jun-21, 25-Jun-21, Drainage
05-1740 05-1750 05-1760	Plumbing Drainage ELV Lifts	135 135 135	829 829 859 645	80.74% 80.74% 58.52% 5.93%	0% 5% 5% 5% 5%	75 Si 26 Si 26 Si 56 Si 127 Si	tart On or After 31-May-21* tart On or After 20-Mar-19 A tart On or After 20-Mar-19 A tart On or After 20-Mar-19 A tart On or After 30-Dec-19 A	13-Aug-21 13-Aug-21 25-Jun-21 25-Jun-21 25-Jul-21 04-Oct-21	10-Aug-21 31-May-21 31-May-21 31-May-21 14-Jul-21	23-Oct-21 25-Jun-21 25-Jun-21 25-Jul-21 17-Nov-21	71 0 0 0 0	31-May-21* 13- Plumbing, 25-Jun-21, 25-Jun-21, Plumbing Diainage, 25-Jun-21, 25-Jun-21, Drainage
05-1740 05-1750 05-1760	Plumbing Drainage ELV	135 135	829 829 859	80.74% 80.74% 58.52%	0% 5% 5% 5%	75 Si 26 Si 26 Si 56 Si	tart On or After 31-May-21* tart On or After 20-Mar-19 A tart On or After 20-Mar-19 A tart On or After 20-Mar-19 A	13-Aug-21 13-Aug-21 25-Jun-21 25-Jun-21 25-Jul-21	10-Aug-21 31-May-21 31-May-21 31-May-21	23-Oct-21 25-Jun-21 25-Jun-21 25-Jul-21 17-Nov-21	71 0 0 0	31-May-21*
05-1740 05-1750 05-1760 05-1760-1(M20) EP_SP_66_12-W	Plumbing Drainage ELV Lifts Di Building Management System (BMS) VP6A-M42.05.01.05 AIP Wastewater Treatment Plant (2.5)	135 135 135 135 135	829 829 859 645 135	80.74% 80.74% 58.52% 5.93% 0% 89.95%	0% 5% 5% 5% 5% 0%	75 S 26 S 26 S 56 S 127 S 135	tart On or After 31-May-21* tart On or After 20-Mar-19 A tart On or After 20-Mar-19 A tart On or After 20-Mar-19 A tart On or After 30-Dec-19 A 31-May-21 03-Oct-18 A	13-Aug-21 13-Aug-21 25-Jun-21 25-Jun-21 25-Jul-21 04-Oct-21 12-Oct-21	10-Aug-21 31-May-21 31-May-21 31-May-21 14-Jul-21 04-Aug-21 31-May-21	23-Oct-21 25-Jun-21 25-Jun-21 25-Jul-21 17-Nov-21 16-Dec-21 07-Nov-21	71 0 0 0 0	31-May-21*
05-1740 05-1750 05-1760 05-1760-1(M20) EP_SP_66_12-W	Plumbing Drainage ELV Lifts Drainagement System (BMS)	135 135 135 135	829 829 859 645 135	80.74% 80.74% 58.52% 5.93% 0%	0% 5% 5% 5% 5%	75 S 26 S 26 S 56 S 127 S 135	tart On or After 31-May-21* tart On or After 20-Mar-19 A tart On or After 20-Mar-19 A tart On or After 20-Mar-19 A tart On or After 30-Dec-19 A 31-May-21	13-Aug-21 13-Aug-21 25-Jun-21 25-Jun-21 25-Jul-21 04-Oct-21 12-Oct-21	10-Aug-21 31-May-21 31-May-21 31-May-21 14-Jul-21 04-Aug-21	23-Oct-21 25-Jun-21 25-Jun-21 25-Jul-21 17-Nov-21 16-Dec-21 07-Nov-21	71 0 0 0 0 44 65	31-May-21*
05-1740 05-1750 05-1760 05-1760-1(M20) <b>EP_SP_66_12-W</b> 05-1780	Plumbing Drainage ELV Lifts Di Building Management System (BMS) VP6A-M42.05.01.05 AIP Wastewater Treatment Plant (2.5)	135 135 135 135 135	829 829 859 645 135	80.74% 80.74% 58.52% 5.93% 0% 89.95%	0% 5% 5% 5% 5% 0%	75 S 26 S 26 S 56 S 127 S 135	tart On or After 31-May-21* tart On or After 20-Mar-19 A tart On or After 20-Mar-19 A tart On or After 20-Mar-19 A tart On or After 30-Dec-19 A 31-May-21 03-Oct-18 A	13-Aug-21 13-Aug-21 25-Jun-21 25-Jul-21 25-Jul-21 04-Oct-21 12-Oct-21 12-Sep-21 29-Jul-21	10-Aug-21 31-May-21 31-May-21 31-May-21 14-Jul-21 04-Aug-21 31-May-21	23-Oct-21 25-Jun-21 25-Jun-21 25-Jul-21 17-Nov-21 16-Dec-21 07-Nov-21 07-Aug-21	71 0 0 0 0 44 65	31-May-21*
05-1740 05-1750 05-1760 05-1760-1(M20) EP_SP_66_12-W 05-1780 05-2790	Plumbing Drainage ELV Lifts Discreption Building Management System (BMS) WP6A-M42.05.01.05 AIP Wastewater Treatment Plant (2.5) Architectural Design (2.5.00) Fire services installation design (2.5.05) WP6A-M42.05.01.05.7 Building services design (excluding fire services installation design) (2.5.0	135 135 135 135 135 1045 135	829 829 859 645 135 1076 1031 897	80.74% 80.74% 58.52% 5.93% 0% 89.95% 55.56% 70.48%	0% 5% 5% 5% 5% 0%	75 S 26 S 26 S 56 S 127 S 135 105 60 S	tart On or After 31-May-21* tart On or After 20-Mar-19 A tart On or After 20-Mar-19 A tart On or After 20-Mar-19 A tart On or After 30-Dec-19 A 31-May-21 03-Oct-18 A tart On or After 03-Oct-18 A 16-Jan-19 A	13-Aug-21 13-Aug-21 25-Jun-21 25-Jun-21 25-Jul-21 04-Oct-21 12-Oct-21 12-Sep-21 29-Jul-21 30-Jun-21	10-Aug-21 31-May-21 31-May-21 31-May-21 14-Jul-21 04-Aug-21 31-May-21 09-Jun-21 31-May-21	23-Oct-21 25-Jun-21 25-Jun-21 25-Jul-21 17-Nov-21 16-Dec-21 07-Noy-21 07-Aug-21 30-Jun-21	71 0 0 0 0 44 65 56 9	31-May-21*
05-1740 05-1750 05-1760 05-1760-1(M20) EP_SP_66_12-W 05-1780 05-2790 EP_SP_66_12-W	Plumbing Drainage ELV Lifts Di Building Management System (BMS)  VP6A-M42.05.01.05 AIP Wastewater Treatment Plant (2.5) Architectural Design (2.5.00) Fire services installation design (2.5.05)	135 135 135 135 135 1045 135	829 829 859 645 135 1076 1031 897	80.74% 80.74% 58.52% 5.93% 0% 89.95% 55.56% 70.48% 89.02%	0% 5% 5% 5% 5% 0%	75 S 26 S 26 S 56 S 127 S 135 00 S 31	tart On or After 31-May-21* tart On or After 20-Mar-19 A tart On or After 20-Mar-19 A tart On or After 20-Mar-19 A tart On or After 30-Dec-19 A 31-May-21 03-Oct-18 A tart On or After 03-Oct-18 A 16-Jan-19 A	13-Aug-21 13-Aug-21 25-Jun-21 25-Jul-21 04-Oct-21 12-Sep-21 29-Jul-21 30-Jun-21 12-Sep-21 29-Jun-21	10-Aug-21 31-May-21 31-May-21 31-May-21 14-Jul-21 04-Aug-21 31-May-21 09-Jun-21 31-May-21	23-Oct-21 25-Jun-21 25-Jun-21 25-Jul-21 17-Nov-21 16-Dec-21 07-Nov-21 07-Aug-21 30-Jun-21	71 0 0 0 0 44 65 56 9	31-May-21*
05-1740 05-1750 05-1760 05-1760-1(M20) EP_SP_66_12-W 05-1780 05-2790 EP_SP_66_12-V 05-1830	Plumbing Drainage ELV Lifts Discreption Building Management System (BMS) WP6A-M42.05.01.05 AIP Wastewater Treatment Plant (2.5) Architectural Design (2.5.00) Fire services installation design (2.5.05) WP6A-M42.05.01.05.7 Building services design (excluding fire services installation design) (2.5.0	135 135 135 135 135 1045 135 105	829 829 859 645 135 1076 1031 897 971	80.74% 80.74% 58.52% 5.93% 0% 89.95% 55.56% 70.48% 89.02%	0% 5% 5% 5% 5% 0% 65% 5%	75 S 26 S 26 S 26 S 56 S 127 S 135 105 60 S 31 105 30 S	tart On or After 31-May-21* tart On or After 20-Mar-19 A tart On or After 20-Mar-19 A tart On or After 20-Mar-19 A tart On or After 30-Dec-19 A 31-May-21 03-Oct-18 A tart On or After 03-Oct-18 A 16-Jan-19 A	13-Aug-21 13-Aug-21 25-Jun-21 25-Jul-21 04-Oct-21 12-Sep-21 29-Jul-21 30-Jun-21 12-Sep-21 29-Jun-21	10-Aug-21 31-May-21 31-May-21 31-May-21 14-Jul-21 04-Aug-21 31-May-21 31-May-21 31-May-21	23-Oct-21 25-Jun-21 25-Jul-21 25-Jul-21 17-Nov-21 16-Dec-21 07-Nov-21 07-Aug-21 07-Nov-21 25-Jul-21	71 0 0 0 0 44 65 56 9 0	31-May-21*
05-1740 05-1750 05-1760 05-1760-1(M20) EP_SP_66_12-W 05-1780 05-2790 EP_SP_66_12-V 05-1830 05-1840	Plumbing Drainage ELV Lifts Discreption Building Management System (BMS)  WP6A-M42.05.01.05 AIP Wastewater Treatment Plant (2.5) Architectural Design (2.5.00) Fire services installation design (2.5.05)  WP6A-M42.05.01.05.7 Building services design (excluding fire services installation design) (2.5.0 LV and Emergency Power Distribution Design (2.5.06.01)	135 135 135 135 1045 135 105 956 135	829 829 859 645 135 1076 1031 897 971	80.74% 80.74% 58.52% 5.93% 0% 89.95% 55.56% 70.48% 89.02% 77.78%	0% 5% 5% 5% 5% 0% 65% 5%	75 S 26 S 26 S 56 S 127 S 135 105 60 S 31 105 30 S 75 S	tart On or After 31-May-21* tart On or After 20-Mar-19 A tart On or After 20-Mar-19 A tart On or After 30-Dec-19 A tart On or After 31-May-21 03-Oct-18 A tart On or After 03-Oct-18 A 16-Jan-19 A tart On or After 16-Jan-19 A	13-Aug-21 13-Aug-21 25-Jun-21 25-Jul-21 04-Oct-21 12-Sep-21 29-Jul-21 30-Jun-21 12-Sep-21 29-Jun-21	10-Aug-21 31-May-21 31-May-21 31-May-21 14-Jul-21 04-Aug-21 31-May-21 31-May-21 31-May-21 26-Jun-21	23-Oct-21 25-Jun-21 25-Jul-21 25-Jul-21 17-Nov-21 16-Dec-21 07-Aug-21 30-Jun-21 07-Nov-21 25-Jul-21 07-Nov-21	71 0 0 0 44 65 56 9 0	31-May-21*
05-1740 05-1750 05-1760 05-1760-1(M20) EP_SP_66_12-W 05-1780 05-2790 EP_SP_66_12-V 05-1830 05-1840 05-1850	Plumbing Drainage ELV Lifts Discreption Building Management System (BMS) WP6A-M42.05.01.05 AIP Wastewater Treatment Plant (2.5) Architectural Design (2.5.00) Fire services installation design (2.5.05) WP6A-M42.05.01.05.7 Building services design (excluding fire services installation design) (2.5.0 LV and Emergency Power Distribution Design (2.5.06.01) MVAC (2.5.06.02)	135 135 135 135 1045 135 105 956 135 135	829 829 859 645 135 1076 1031 897 971 896	80.74% 80.74% 58.52% 5.93% 0% 89.95% 55.56% 70.48% 89.02% 77.78% 44.44%	0% 5% 5% 5% 5% 0% 65% 5% 25%	75 S 26 S 26 S 56 S 127 S 135 105 60 S 31 105 S 55 S	tart On or After 31-May-21* tart On or After 20-Mar-19 A tart On or After 20-Mar-19 A tart On or After 30-Dec-19 A tart On or After 31-May-21  03-Oct-18 A tart On or After 03-Oct-18 A 16-Jan-19 A tart On or After 16-Jan-19 A tart On or After 16-Jan-19 A	13-Aug-21 13-Aug-21 25-Jun-21 25-Jul-21 04-Oct-21 12-Oct-21 12-Sep-21 29-Jul-21 30-Jun-21 12-Sep-21 29-Jun-21 13-Aug-21 12-Sep-21	10-Aug-21 31-May-21 31-May-21 31-May-21 14-Jul-21 04-Aug-21 31-May-21 09-Jun-21 31-May-21 26-Jun-21 25-Aug-21	23-Oct-21 25-Jun-21 25-Jul-21 25-Jul-21 17-Nov-21 16-Dec-21 07-Nov-21 07-Aug-21 07-Nov-21 25-Jul-21 07-Nov-21 23-Oct-21	71 0 0 0 44 65 56 9 0 56 26 86	31-May-21*
05-1740 05-1750 05-1760 05-1760-1(M20) EP_SP_66_12-W 05-1780 05-2790 EP_SP_66_12-V 05-1830 05-1840 05-1850 05-1860	Plumbing Drainage ELV Lifts Discreption Building Management System (BMS)  WP6A-M42.05.01.05 AIP Wastewater Treatment Plant (2.5) Architectural Design (2.5.00) Fire services installation design (2.5.05)  WP6A-M42.05.01.05.7 Building services design (excluding fire services installation design) (2.5.0 LV and Emergency Power Distribution Design (2.5.06.01) MVAC (2.5.06.02) Odour Control (2.5.06.03)	135 135 135 135 1045 135 105 956 135 135 105	829 829 859 645 135 1076 1031 897 971 896 941	80.74% 80.74% 58.52% 5.93% 0% 89.95% 55.56% 70.48% 89.02% 77.78% 44.44%	0% 5% 5% 5% 0% 65% 5% 25% 25%	75 S 26 S 26 S 56 S 127 S 135 105 60 S 31 105 30 S 75 S 105 S 26 S	tart On or After 20-Mar-19 A tart On or After 20-Mar-19 A tart On or After 30-Dec-19 A 31-May-21 03-Oct-18 A tart On or After 03-Oct-18 A 16-Jan-19 A tart On or After 131-May-21*	13-Aug-21 13-Aug-21 25-Jun-21 25-Jun-21 25-Jul-21 04-Oct-21 12-Sep-21 29-Jul-21 30-Jun-21 12-Sep-21 29-Jun-21 13-Aug-21 12-Sep-21 25-Jun-21	10-Aug-21 31-May-21 31-May-21 31-May-21 14-Jul-21 04-Aug-21 31-May-21 31-May-21 26-Jun-21 25-Aug-21 11-Jul-21	23-Oct-21 25-Jun-21 25-Jul-21 17-Nov-21 16-Dec-21 07-Aug-21 30-Jun-21 07-Nov-21 25-Jul-21 07-Nov-21 23-Oct-21 25-Jun-21	71 0 0 0 44 65 56 9 0 56 26 86 41	31-May-21*
05-1740 05-1750 05-1760 05-1760-1(M20) EP_SP_66_12-W 05-1780 05-2790 EP_SP_66_12-V 05-1830 05-1840 05-1850 05-1860 05-1870	Plumbing Drainage ELV Lifts Discreption Building Management System (BMS)  WP6A-M42.05.01.05 AIP Wastewater Treatment Plant (2.5) Architectural Design (2.5.00) Fire services installation design (2.5.05)  WP6A-M42.05.01.05.7 Building services design (excluding fire services installation design) (2.5.0 LV and Emergency Power Distribution Design (2.5.06.01) MVAC (2.5.06.02) Odour Control (2.5.06.03) Plumbing (2.5.06.04)	135 135 135 135 135 1045 135 105 956 135 135 105	829 829 859 645 135 1076 1031 897 971 896 941 105	80.74% 80.74% 58.52% 5.93% 0% 89.95% 55.56% 70.48% 89.02% 77.78% 44.44% 0% 80.74% 92.59%	0% 5% 5% 5% 0% 65% 5% 25% 25% 0%	75 S 26 S 26 S 56 S 127 S 135 105 60 S 31 105 30 S 75 S 105 S 26 S	tart On or After 20-Mar-19 A tart On or After 20-Mar-19 A tart On or After 30-Dec-19 A 31-May-21 03-Oct-18 A tart On or After 03-Oct-18 A 16-Jan-19 A tart On or After 16-Jan-19 A	13-Aug-21 13-Aug-21 25-Jun-21 25-Jul-21 04-Oct-21 12-Oct-21 12-Sep-21 29-Jul-21 30-Jun-21 13-Aug-21 12-Sep-21 25-Jun-21 09-Jun-21	10-Aug-21 31-May-21 31-May-21 31-May-21 14-Jul-21 04-Aug-21 31-May-21 31-May-21 26-Jun-21 25-Aug-21 11-Jul-21 31-May-21	23-Oct-21 25-Jun-21 25-Jul-21 17-Nov-21 16-Dec-21 07-Aug-21 30-Jun-21 07-Nov-21 25-Jul-21 07-Nov-21 23-Oct-21 25-Jun-21 25-Jun-21	71 0 0 0 44 65 56 9 0 56 26 86 41	31-May-21*
05-1740 05-1750 05-1760 05-1760 05-1760-1(M20) EP_SP_66_12-W 05-2790 EP_SP_66_12-V 05-1830 05-1840 05-1850 05-1860 05-1870 05-1880	Plumbing Drainage ELV Lifts Discreption Building Management System (BMS)  WP6A-M42.05.01.05 AIP Wastewater Treatment Plant (2.5) Architectural Design (2.5.00) Fire services installation design (2.5.05)  WP6A-M42.05.01.05.7 Building services design (excluding fire services installation design) (2.5.0 LV and Emergency Power Distribution Design (2.5.06.01) MVAC (2.5.06.02) Odour Control (2.5.06.03) Plumbing (2.5.06.04) Drainage (2.5.06.05) ELV (2.5.06.06)	135 135 135 135 1045 135 105 956 135 135 105 135 135	829 829 859 645 135 1076 1031 897 971 896 941 105 892 876	80.74% 80.74% 58.52% 5.93% 0% 89.95% 55.56% 70.48% 89.02% 77.78% 44.44% 0% 80.74% 92.59% 58.52%	0% 5% 5% 5% 0% 65% 5% 25% 25% 0% 25%	75 S 26 S 26 S 56 S 127 S 135 105 60 S 31 105 30 S 75 S 105 S 26 S	tart On or After 30-Dec-19 A 31-May-21 31-May-21 31-May-21 31-May-21 31-May-21 31-May-21 31-May-21 31-May-21 31-May-21 416-Jan-19 A 416-Jan-19 A 416-Jan-19 A 416-Jan-19 A 417 On or After 416-Jan-19 A	13-Aug-21 13-Aug-21 25-Jun-21 25-Jun-21 25-Jul-21 04-Oct-21 12-Oct-21 12-Sep-21 29-Jul-21 30-Jun-21 12-Sep-21 29-Jun-21 13-Aug-21 12-Sep-21 25-Jun-21 09-Jun-21	10-Aug-21 31-May-21 31-May-21 14-Jul-21 04-Aug-21 31-May-21 09-Jun-21 31-May-21 26-Jun-21 25-Aug-21 11-Jul-21 31-May-21 16-Jun-21 31-May-21	23-Oct-21 25-Jun-21 25-Jul-21 17-Nov-21 16-Dec-21 07-Nov-21 30-Jun-21 07-Nov-21 25-Jul-21 07-Nov-21 25-Jul-21 25-Jul-21 25-Jun-21 25-Jun-21 25-Jun-21	71 0 0 0 0 44 65 56 9 0 56 26 86 41 0	31-May-21*
05-1740 05-1750 05-1760 05-1760-1(M20) EP_SP_66_12-W 05-1780 05-2790 EP_SP_66_12-V 05-1840 05-1850 05-1860 05-1870 05-1880 EP_SP_66_12-W	Plumbing Drainage ELV Lifts Discreption Building Management System (BMS)  WP6A-M42.05.01.05 AIP Wastewater Treatment Plant (2.5) Architectural Design (2.5.00) Fire services installation design (2.5.05)  WP6A-M42.05.01.05.7 Building services design (excluding fire services installation design) (2.5.0 LV and Emergency Power Distribution Design (2.5.06.01) MVAC (2.5.06.02) Odour Control (2.5.06.03) Plumbing (2.5.06.04) Drainage (2.5.06.05) ELV (2.5.06.06)  WP6A-M42.05.01.06 AIP Water Treatment Plant Building (2.6)	135 135 135 135 135 105 956 135 105 135 135 135 135 135 135	829 829 859 645 135 1076 1031 897 971 896 941 105 892 876 922	80.74% 80.74% 58.52% 5.93% 0% 89.95% 55.56% 70.48% 89.02% 44.44% 0% 80.74% 92.59% 58.52%	0% 5% 5% 5% 5% 0% 65% 5% 25% 25% 25% 25% 25%	75 S 26 S 26 S 56 S 127 S 135 105 60 S 31 105 30 S 75 S 105 S 26 S 10 S	tart On or After 20-Mar-19 A tart On or After 30-Dec-19 A 31-May-21 31-May-21 31-May-21 31-May-21 416-Jan-19 A 416-Jan-19 A 416-Jan-19 A 416-Jan-19 A 416-Jan-19 A 417 On or After 416-Jan-19 A	13-Aug-21 13-Aug-21 25-Jun-21 25-Jul-21 04-Oct-21 12-Oct-21 12-Sep-21 29-Jul-21 30-Jun-21 13-Aug-21 12-Sep-21 29-Jun-21 13-Aug-21 25-Jul-21	10-Aug-21 31-May-21 31-May-21 14-Jul-21 04-Aug-21 31-May-21 09-Jun-21 31-May-21 26-Jun-21 25-Aug-21 11-Jul-21 31-May-21 16-Jun-21 31-May-21	23-Oct-21 25-Jun-21 25-Jul-21 17-Nov-21 16-Dec-21 07-Nov-21 30-Jun-21 07-Nov-21 25-Jul-21 07-Nov-21 25-Jul-21 25-Jul-21 25-Jul-21 25-Jul-21 25-Jul-21 07-Mar-22	71 0 0 0 44 65 56 9 0 56 26 86 41 0 16 0	31-May-21*
05-1740 05-1750 05-1760 05-1760-1(M20) EP_SP_66_12-W 05-1780 05-2790 EP_SP_66_12-V 05-1840 05-1850 05-1860 05-1870 05-1880 EP_SP_66_12-W 05-1980	Plumbing Drainage ELV Lifts D) Building Management System (BMS)  WP6A-M42.05.01.05 AIP Wastewater Treatment Plant (2.5) Architectural Design (2.5.00) Fire services installation design (2.5.05)  WP6A-M42.05.01.05.7 Building services design (excluding fire services installation design) (2.5.0 LV and Emergency Power Distribution Design (2.5.06.01) MVAC (2.5.06.02) Odour Control (2.5.06.03) Plumbing (2.5.06.04) Drainage (2.5.06.05) ELV (2.5.06.06)  VP6A-M42.05.01.06 AIP Water Treatment Plant Building (2.6) Architectural Design (2.6.00)	135 135 135 135 135 1045 135 105 956 135 135 135 135 135 135 135 135	829 829 859 645 135 1076 1031 897 971 105 896 941 105 892 876 922 1072	80.74% 80.74% 58.52% 5.93% 0% 89.95% 55.56% 70.48% 89.02% 44.44% 0% 80.74% 92.59% 58.52% 77.2% 42.86%	0% 5% 5% 5% 0% 65% 25% 25% 25% 25% 25%	75 S 26 S 26 S 56 S 127 S 135 105 60 S 31 105 S 26 S 105 S 26 S 10 S 56 S	tart On or After 20-Mar-19 A tart On or After 30-Dec-19 A 31-May-21 31-May-21 31-May-21 31-May-21 31-May-21 416-Jan-19 A 416-Jan-19 A 416-Jan-19 A 417 On or After 417 On or After 417 On or After 418 On-Sep-18 A	13-Aug-21 13-Aug-21 25-Jun-21 25-Jul-21 04-Oct-21 12-Oct-21 12-Sep-21 29-Jul-21 30-Jun-21 12-Sep-21 13-Aug-21 12-Sep-21 25-Jun-21 13-Aug-21 25-Jul-21 25-Jul-21	10-Aug-21 31-May-21 31-May-21 14-Jul-21 04-Aug-21 31-May-21 09-Jun-21 31-May-21 31-May-21 26-Jun-21 25-Aug-21 11-Jul-21 31-May-21 16-Jun-21 31-May-21 07-Jan-22	23-Oct-21 25-Jun-21 25-Jul-21 17-Nov-21 16-Dec-21 07-Nov-21 30-Jun-21 07-Nov-21 25-Jul-21 07-Nov-21 25-Jul-21 07-Nov-21 25-Jul-21 07-Nov-21 25-Jul-21 07-Nov-21 25-Jun-21 25-Jun-21 25-Jun-21 25-Jun-21 27-Mar-22 07-Mar-22	71 0 0 0 44 65 56 9 0 56 26 86 41 0 16 0	31-May-21*
05-1740 05-1750 05-1760 05-1760-1(M20) EP_SP_66_12-W 05-1780 05-2790 EP_SP_66_12-V 05-1830 05-1840 05-1850 05-1860 05-1870 05-1880 EP_SP_66_12-W 05-1980 05-1990 05-1950	Plumbing Drainage ELV Lifts D) Building Management System (BMS)  WP6A-M42.05.01.05 AIP Wastewater Treatment Plant (2.5) Architectural Design (2.5.00) Fire services installation design (2.5.05)  WP6A-M42.05.01.05.7 Building services design (excluding fire services installation design) (2.5.0 LV and Emergency Power Distribution Design (2.5.06.01) MVAC (2.5.06.02) Odour Control (2.5.06.03) Plumbing (2.5.06.04) Drainage (2.5.06.05) ELV (2.5.06.06)  VP6A-M42.05.01.06 AIP Water Treatment Plant Building (2.6) Architectural Design (2.6.00) Fire services installation design (2.6.05) (3 Packages)	135 135 135 135 135 1045 135 105 956 135 135 135 135 135 135 135 135 105 105 105	829 829 859 645 135 1076 1031 897 971 105 896 941 105 892 876 922 1072	80.74% 80.74% 58.52% 5.93% 0% 89.95% 55.56% 70.48% 89.02% 44.44% 0% 80.74% 92.59% 58.52% 77.2% 42.86% 70.48%	0% 5% 5% 5% 5% 0% 65% 5% 25% 25% 25% 25% 25%	75 S 26 S 26 S 56 S 127 S 135 105 60 S 31 105 S 26 S 105 S 26 S 10 S 26 S 31 S 56 S	tart On or After 30-Dec-19 A 31-May-21 03-Oct-18 A tart On or After 03-Oct-18 A tart On or After 16-Jan-19 A tart On or After tart On or After 16-Jan-19 A tart On or After 07-Sep-18 A tart On or After 07-Sep-18 A	13-Aug-21 13-Aug-21 25-Jun-21 25-Jul-21 04-Oct-21 12-Oct-21 12-Sep-21 29-Jul-21 30-Jun-21 13-Aug-21 12-Sep-21 12-Sep-21 12-Sun-21 13-Aug-21 25-Jul-21 25-Jul-21 30-Jun-21 30-Jun-21 30-Jun-21 30-Jun-21 30-Jun-21	10-Aug-21 31-May-21 31-May-21 14-Jul-21 04-Aug-21 31-May-21 09-Jun-21 31-May-21 26-Aug-21 11-Jul-21 31-May-21 16-Jun-21 31-May-21 16-Jun-21 31-May-21 31-May-21	23-Oct-21 25-Jun-21 25-Jul-21 17-Nov-21 16-Dec-21 07-Nov-21 30-Jun-21 25-Jul-21 07-Nov-21 25-Jul-21 25-Jul-21 25-Jun-21 25-Jun-21 25-Jun-21 25-Jul-21 07-Mar-22 07-Mar-22 07-Mar-22	71 0 0 0 0 44 65 56 9 0 56 26 86 41 0 16 0 206 221	31-May-21*
05-1740 05-1750 05-1760 05-1760 05-1760-1(M20)  EP_SP_66_12-W 05-1780 05-2790 EP_SP_66_12-V 05-1830 05-1840 05-1860 05-1870 05-1880 EP_SP_66_12-W 05-1950 EP_SP_66_12-W	Plumbing Drainage ELV Lifts D) Building Management System (BMS)  WP6A-M42.05.01.05 AIP Wastewater Treatment Plant (2.5) Architectural Design (2.5.00) Fire services installation design (2.5.05)  WP6A-M42.05.01.05.7 Building services design (excluding fire services installation design) (2.5.0 LV and Emergency Power Distribution Design (2.5.06.01) MVAC (2.5.06.02) Odour Control (2.5.06.03) Plumbing (2.5.06.04) Drainage (2.5.06.05) ELV (2.5.06.06) VP6A-M42.05.01.06 AIP Water Treatment Plant Building (2.6) Architectural Design (2.6.00) Fire services installation design (2.6.05) (3 Packages) WP6A-M42.05.01.06.7 Building services design (excluding fire services installation design) (2.6.0	135 135 135 135 135 1045 135 105 956 135 135 135 135 135 135 135 135 135 135	829 829 859 645 135 1076 1031 897 971 896 941 105 892 876 922 1072 1057 834	80.74% 80.74% 58.52% 5.93% 0% 89.95% 55.56% 70.48% 89.02% 77.78% 44.44% 0% 80.74% 92.59% 58.52% 77.2% 42.86% 70.48%	0% 5% 5% 5% 5% 0% 65% 25% 25% 25% 25% 25% 70.48%	75 S 26 S 26 S 56 S 127 S 135 105 60 S 31 105 S 60 S 75 S 60 S 31 75 S	tart On or After 20-Mar-19 A tart On or After 31-May-21  03-Oct-18 A 03-Oct-18 A tart On or After 16-Jan-19 A tart On or After 07-Sep-18 A 20-Mar-19 A	13-Aug-21 13-Aug-21 25-Jun-21 25-Jul-21 04-Oct-21 12-Oct-21 29-Jul-21 30-Jun-21 12-Sep-21 12-Sep-21 12-Sep-21 12-Sep-21 12-Sun-21 13-Aug-21 12-Sun-21 25-Jul-21 30-Jun-21 30-Jun-21 30-Jun-21 30-Jun-21 31-Aug-21 30-Jun-21	10-Aug-21 31-May-21 31-May-21 14-Jul-21 04-Aug-21 31-May-21 09-Jun-21 31-May-21 26-Jun-21 11-Jul-21 31-May-21 16-Jun-21 31-May-21 16-Jun-21 31-May-21 31-May-21 31-May-21	23-Oct-21 25-Jun-21 25-Jul-21 17-Nov-21 16-Dec-21 07-Aug-21 30-Jun-21 25-Jul-21 07-Nov-21 25-Jul-21 07-Nov-21 23-Oct-21 25-Jul-21 07-Mar-22 07-Mar-22 30-Jun-21 23-Oct-21	71 0 0 0 0 44 65 56 9 0 0 56 26 86 41 0 16 0 206 221 0	31-May-21*  Plumbing, 25-Jun-21, 25-Jun-21, Plumbing  Diainage, 25-Jun-21, 25-Jun-21, Drainage  ELV, 25-Jul-21, 25-  31-May-21  29-Jul-21, Arch  Fire services installation design (2.5.06.05), 0  29-Jun-21, LV and Emergency Power D  31-May-21*  Plumbing (2.5.06.04), 25-Jun-21, 25-Jun-2  09-Jun-21, Drainage (2.5.06.05), Drainage (2.5.06.05), 0  ELV (2.5.06.06), 25-  29-Jul-21, Arch  Fire services installation design (2.6.05)
05-1740 05-1750 05-1760 05-1760 05-1760-1(M20)  EP_SP_66_12-W 05-1780 05-2790 EP_SP_66_12-V 05-1830 05-1840 05-1850 05-1860 05-1870 05-1880 EP_SP_66_12-W 05-1950 EP_SP_66_12-W 05-1950	Plumbing Drainage ELV Lifts D) Building Management System (BMS)  WP6A-M42.05.01.05 AIP Wastewater Treatment Plant (2.5) Architectural Design (2.5.00) Fire services installation design (2.5.05)  WP6A-M42.05.01.05.7 Building services design (excluding fire services installation design) (2.5.0 LV and Emergency Power Distribution Design (2.5.06.01) MVAC (2.5.06.02) Odour Control (2.5.06.03) Plumbing (2.5.06.04) Drainage (2.5.06.05) ELV (2.5.06.06) VP6A-M42.05.01.06 AIP Water Treatment Plant Building (2.6) Architectural Design (2.6.00) Fire services installation design (2.6.05) (3 Packages) WP6A-M42.05.01.06.7 Building services design (excluding fire services installation design) (2.6.0 Electrical Services and Lighting (2.6.06.01)	135 135 135 135 135 105 956 135 135 135 135 135 135 135 135 135 135	829 829 859 645 135 1076 1031 897 971 896 941 105 892 876 922 1057 834 859	80.74% 80.74% 58.52% 5.93% 0% 89.95% 55.56% 70.48% 89.02% 77.78% 44.44% 0% 80.74% 92.59% 58.52% 70.48% 42.86% 70.48%	0% 5% 5% 5% 5% 0% 65% 25% 25% 25% 25% 70.48%	75 S 26 S 26 S 56 S 127 S 135 105 60 S 31 105 S 56 S 10 S 56 S 10 S 56 S	tart On or After 20-Mar-19 A tart On or After 31-May-21 03-Oct-18 A 03-Oct-18 A 03-Oct-18 A 16-Jan-19 A tart On or After 16-Jan-19 A tart On or After 16-Jan-19 A tart On or After 07-Sep-18 A tart On or After 20-Mar-19 A tart On or After 20-Mar-19 A	13-Aug-21 13-Aug-21 25-Jun-21 25-Jul-21 04-Oct-21 12-Oct-21 12-Sep-21 29-Jul-21 13-Aug-21 12-Sep-21 12-Sep-21 12-Sep-21 13-Aug-21 12-Sun-21 09-Jun-21 25-Jun-21 09-Jun-21 25-Jun-21 13-Aug-21 25-Jul-21 30-Jun-21 25-Jul-21	10-Aug-21 31-May-21 31-May-21 14-Jul-21 04-Aug-21 31-May-21 31-May-21 26-Jun-21 31-May-21 11-Jul-21 31-May-21 16-Jun-21 31-May-21 31-May-21 31-May-21 31-May-21 31-May-21	23-Oct-21 25-Jun-21 25-Jul-21 17-Nov-21 16-Dec-21 07-Aug-21 30-Jun-21 07-Nov-21 25-Jul-21 07-Nov-21 25-Jul-21	71 0 0 0 0 44 65 56 9 0 0 56 26 86 41 0 16 0 206 221 0	31-May-21*  Plumbing, 25-Jun-21, 25-Jun-21, Plumbing  Diainage, 25-Jun-21, 25-Jun-21, Drainage  ELV, 25-Jul-21, 25-  31-May-21  29-Jul-21, Archi  Fire services installation design (2.5.05  29-Jun-21, LV and Emergency Power Di  31-May-21*  Plumbing (2.5.06.04), 25-Jun-21, 25-Jun-21  09-Jun-21, Drainage (2.5.06.05), Drainage (2.5.06.05), 0  ELV (2.5.06.06), 25  29-Jul-21, Archi  Fire services installation design (2.6.05)
EP_SP_66_12-W  05-1780  05-2790  EP_SP_66_12-V  05-1830  05-1840  05-1850  05-1860  05-1870  05-1880  EP_SP_66_12-W  05-1950  EP_SP_66_12-W  05-1950  05-1960  05-1970	Plumbing Drainage ELV Lifts D) Building Management System (BMS)  WP6A-M42.05.01.05 AIP Wastewater Treatment Plant (2.5) Architectural Design (2.5.00) Fire services installation design (2.5.05)  WP6A-M42.05.01.05.7 Building services design (excluding fire services installation design) (2.5.0 LV and Emergency Power Distribution Design (2.5.06.01) MVAC (2.5.06.02) Odour Control (2.5.06.03) Plumbing (2.5.06.04) Drainage (2.5.06.05) ELV (2.5.06.06) VP6A-M42.05.01.06 AIP Water Treatment Plant Building (2.6) Architectural Design (2.6.00) Fire services installation design (2.6.05) (3 Packages) WP6A-M42.05.01.06.7 Building services design (excluding fire services installation design) (2.6.0 Electrical Services and Lighting (2.6.06.01)	135 135 135 135 135 105 956 135 135 135 135 135 135 135 135 135 135	829 829 859 645 135 1076 1031 897 971 896 941 105 892 876 922 1072 1057 834 878 859 873	80.74% 80.74% 80.74% 58.52% 5.93% 0% 89.95% 55.56% 70.48% 89.02% 77.78% 44.44% 0% 80.74% 92.59% 58.52% 70.48% 42.86% 70.48% 44.44% 58.52% 44.44%	0% 5% 5% 5% 0% 65% 65% 25% 0% 25% 25% 70.48%	75 S 26 S 26 S 56 S 127 S 135 60 S 31 105 S 75 S 105 S 26 S 75 G 8 S 75 S	tart On or After 20-Mar-19 A tart On or After 31-May-21 03-Oct-18 A 03-Oct-18 A 16-Jan-19 A tart On or After 16-Jan-19 A tart On or After tart On or After tart On or After 16-Jan-19 A tart On or After 16-Jan-19 A tart On or After 16-Jan-19 A tart On or After tart On or After tart On or After tart On or After 07-Sep-18 A tart On or After 20-Mar-19 A	13-Aug-21 13-Aug-21 25-Jun-21 25-Jul-21 04-Oct-21 12-Oct-21 12-Sep-21 29-Jul-21 13-Aug-21 12-Sep-21 12-Sep-21 12-Sep-21 12-Sep-21 12-Sep-21 12-Sep-21 12-Sep-21 13-Aug-21 13-Aug-21 13-Aug-21 13-Aug-21 13-Aug-21 13-Aug-21 13-Aug-21	10-Aug-21 31-May-21 31-May-21 14-Jul-21 04-Aug-21 31-May-21 09-Jun-21 31-May-21 26-Jun-21 11-Jul-21 31-May-21 16-Jun-21 31-May-21 07-Jan-22 31-May-21 31-May-21 31-May-21 07-Jan-22 31-May-21 31-May-21	23-Oct-21 25-Jun-21 25-Jul-21 17-Nov-21 16-Dec-21 07-Noy-21 07-Noy-21 07-Noy-21 25-Jul-21 07-Noy-21 25-Jul-21 23-Oct-21 23-Oct-21 23-Oct-21	71 0 0 0 0 44 65 56 9 0 0 56 26 86 41 0 16 0 206 221 0 71	31-May-21*  Plumbing, 25-Jun-21, 25-Jun-21, Plumbing  Drainage, 25-Jun-21, 25-Jun-21, Drainage  ELV, 25-Jul-21, 25-  31-May-21  29-Jul-21, Archi  Fire services installation design (2.5.05)  29-Jun-21, LV and Emergency Power Di  31-May-21*  Plumbing (2.5.06.04), 25-Jun-21, 25-Jun-21  09-Jun-21, Drainage (2.5.06.05), Drainage (2.5.06.06), 25  ELV (2.5.06.06), 25  29-Jul-21, Archi  Fire services installation design (2.6.05)  ELV (2.5.06.06), 25  Electrical Services
05-1740 05-1750 05-1760 05-1760-1(M20) EP_SP_66_12-W 05-1780 05-2790 EP_SP_66_12-V 05-1830 05-1840 05-1850 05-1860 05-1870 05-1880 EP_SP_66_12-W 05-1950 EP_SP_66_12-W 05-1950	Plumbing Drainage ELV Lifts D) Building Management System (BMS)  WP6A-M42.05.01.05 AIP Wastewater Treatment Plant (2.5) Architectural Design (2.5.00) Fire services installation design (2.5.05)  WP6A-M42.05.01.05.7 Building services design (excluding fire services installation design) (2.5.0 LV and Emergency Power Distribution Design (2.5.06.01) MVAC (2.5.06.02) Odour Control (2.5.06.03) Plumbing (2.5.06.04) Drainage (2.5.06.05) ELV (2.5.06.06) VP6A-M42.05.01.06 AIP Water Treatment Plant Building (2.6) Architectural Design (2.6.00) Fire services installation design (2.6.05) (3 Packages) WP6A-M42.05.01.06.7 Building services design (excluding fire services installation design) (2.6.0 Electrical Services and Lighting (2.6.06.01)	135 135 135 135 135 105 956 135 135 135 135 135 135 135 135 135 135	829 829 859 645 135 1076 1031 897 971 896 941 105 892 876 922 1057 834 859	80.74% 80.74% 58.52% 5.93% 0% 89.95% 55.56% 70.48% 89.02% 77.78% 44.44% 0% 80.74% 92.59% 58.52% 70.48% 42.86% 70.48%	0% 5% 5% 5% 5% 0% 65% 25% 25% 25% 25% 70.48%	75 S 26 S 26 S 127 S 135 105 60 S 31 105 S 26 S 105 S 26 S 75 S 31 75 S 30 S 75 S 31 S 30 S 31 S 31 S 30 S 31	tart On or After 20-Mar-19 A tart On or After 31-May-21 03-Oct-18 A 03-Oct-18 A 03-Oct-18 A 16-Jan-19 A tart On or After 16-Jan-19 A tart On or After 16-Jan-19 A tart On or After 07-Sep-18 A tart On or After 20-Mar-19 A tart On or After 20-Mar-19 A	13-Aug-21 13-Aug-21 25-Jun-21 25-Jul-21 04-Oct-21 12-Oct-21 12-Sep-21 29-Jul-21 13-Aug-21 12-Sep-21 12-Sep-21 13-Aug-21 12-Sun-21 09-Jun-21 25-Jun-21 13-Aug-21 25-Jul-21 30-Jun-21 25-Jul-21 30-Jun-21 25-Jul-21 30-Jun-21 25-Jul-21 30-Jun-21	10-Aug-21 31-May-21 31-May-21 14-Jul-21 04-Aug-21 31-May-21 31-May-21 26-Jun-21 31-May-21 11-Jul-21 31-May-21 16-Jun-21 31-May-21 31-May-21 31-May-21 31-May-21 31-May-21	23-Oct-21 25-Jun-21 25-Jul-21 17-Nov-21 16-Dec-21 07-Nov-21 07-Nov-21 25-Jul-21 07-Nov-21 25-Jul-21	71 0 0 0 0 44 65 56 9 0 0 56 26 86 41 0 16 0 206 221 0	31-May-21*  Plumbing, 25-Jun-21, 25-Jun-21, Plumbing  Drainage, 25-Jun-21, 25-Jun-21, Drainage  ELV, 25-Jul-21, 25-  31-May-21  29-Jul-21, Archi  Fire services installation design (2.5.05  29-Jun-21, LV and Emergency Power Di  29-Jun-21, LV and Emergency Power Di  13-A  31-May-21*  Plumbing (2.5.06.04), 25-Jun-21, 25-Jun-21  09-Jun-21, Drainage (2.5.06.05), Drainage (2.5.06.05), 03  ELV (2.5.06.06), 25

# 3-Month Rolling Programme (May 2021)

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Remaining Work Actual Milestone Actual Work ◆ Critical Milestone Critical Remaining Work Milestone





)	Activity Name	Planned	At Completion	Duration %	Activity %	Remaining Primary Constraint	Current Start	Current Finish	Lata Start L	Late Finish	Total Float M42 Remarks		2021
	Pullyty (Value	Duration	At Completion Duration	Complete	Complete	Remaining Primary Constraint Duration	Current Start	Current Fillish	Late Start	Late Fillish	iotal rioat W42 nemarks	May	Jun Jul Aug
— 0F 0010	FIV	105	050	F0 F00/	F0/	EC Ctort On an After	00 May 10 A	0F Jul 01	01 May 01 0	0F Jul 04	0	42	43 44 45
	ELV	135	859	58.52%	5%	56 Start On or After	20-Mar-19 A		31-May-21 2		0		ELV, 25-Jul-21, 25-
	SA-M42.05.01.07 AIP Administration Building (2.7)	1051	1167	87.16%	050/	135	03-Aug-18 A		31-May-21 0		301		00 kd 04 Av-ki
05-2020	Architectural Design (2.7.00)	135	1092	55.56%	65%	60 Start On or After	03-Aug-18 A			12-Mar-22	226		29-Jul-21, Archit
05-2030	Foundation design (2.7.01)	135	135	0%	0%	135	31-May-21	12-Oct-21	14-Mar-22 2	26-Jul-22	287	31-May-21	
05-2040	Structural design (2.7.02)	135	807	0%	65%	135 Start On or After	29-Jul-19 A	12-Oct-21	14-Mar-22 2	26-Jul-22	287		
<b>5-2050</b>	Electrical and instrumentation works design (2.7.03)	105	105	0%	0%	105	31-May-21	12-Sep-21	27-Apr-22 0	09-Aug-22	331	31-May-21	
05-2060	Fire services installation design (3 Packages) (2.7.04)	135	667	77.04%	5%	31 Start On or After	03-Sep-19 A	30-Jun-21	31-May-21 3	30-Jun-21	0		Fire services installation design (3 Pack
EP SP 66 12-WP	6A-M42.05.01.07.6 Building services design (excluding fire services installation design) (2.7.0	713	771	81.07%		135	03-Sep-19 A	12-Oct-21	31-May-21 1	15-Feb-22	126		
05-2070	Electrical Services and Lighting (2.7.05.01)	135	692	58.52%	5%	56 Start On or After	03-Sep-19 A	25-Jul-21	31-May-21 2	25-Jul-21	0		Electrical Services
	MVAC	135	711	44.44%	5%	75 Start On or After	03-Sep-19 A			23-Oct-21	71		
05-2100		135	646	92.59%	5%	10 Start On or After	03-Sep-19 A			25-Jun-21	16		09-Jun-21, Plumbing, Plumbing, 09-Jun-21
	Plumbing						· ·	_			-		
05-2110	Drainage	135	662	80.74%	5%	26 Start On or After	03-Sep-19 A		-	25-Jun-21	0		Drainage, 25-Jun-21, 25-Jun-21, Drainage
<b>3</b> 05-2120	ELV	135	682	65.93%	5%	46 Start On or After	03-Sep-19 A	15-Jul-21	10-Jun-21 2	25-Jul-21	10		15-Jul-21, ELV, ELV, 15-Jul-
05-2130	Lifts and Escalators	135	623	22.22%	5%	105	30-Dec-19 A	12-Sep-21	03-Nov-21 1	15-Feb-22	156		<u> </u>
05-2130-1(M20)	Building Management System (BMS)	135	135	0%	0%	135	31-May-21	12-Oct-21	04-Aug-21 1	16-Dec-21	65	31-May-21	
EP SP 66 12-WP6	6A-M42.05.01.08 AIP IWMF Substation (2.8)	434	928	97.24%		12	27-Nov-18 A	11-Jun-21	31-May-21 1	13-Jun-21	2		
05-2170	Electrical and instrumentation works design (2.8.03) (14 Packages)	180	596	93.33%	55%	12 Start On or After	25-Oct-19 A	11-Jun-21	02-Jun-21 1	13-Jun-21	2		11-Jun-21, Electrical and instrumentation works design
05-2190	Fire services installation design (2.8.05) (2 Packages)	170	917	99.41%	45%	1 Start On or After	27-Nov-18 A	31-May-21	31-May-21 3	31-Mav-21	0		Fire services installation design (2.8.05) (2 Packages), 31-May-
	6A-M42.05.01.1 AIP Chimney	378	659	64.29%		135	24-Dec-19 A	-	07-Aug-21 2	-	131		
	6A-M42.05.01.1.1 Building services design (excluding fire services installation design)	378	659	64.29%		135	24-Dec-19 A	12-Oct-21	07-Aug-21 2		131		
05-5430(5a)	Electrical Services and Lighting	135	135	04.29%	0%	135	31-May-21	12-Oct-21	3	19-Dec-21	68	31-May-21	
	MVAC	105	105	0%	0%	105	31-May-21	12-Oct-21	-	20-Feb-22	161	31-May-21	
` ' '								· ·					
05-5450(5a)	Plumbing	105	105	0%	0%	105	31-May-21	12-Sep-21		19-Dec-21	98	31-May-21	ļ
05-5460(5a)	Drainage	135	135	0%	0%	135	31-May-21	12-Oct-21		19-Dec-21	68	31-May-21	
05-5470(5a)	ELV	135	135	0%	0%	135	31-May-21	12-Oct-21	07-Aug-21 1	19-Dec-21	68	31-May-21	
05-5480(5a)	Lift	135	135	0%	0%	135	31-May-21	12-Oct-21	07-Aug-21 1	19-Dec-21	68	31-May-21	
05-5490(5a)	Building Management System (BMS)	135	613	34.07%	5%	89	24-Dec-19 A	27-Aug-21	22-Sep-21 1	19-Dec-21	114		
EP SP 66 12-WP6	6A-M42.05.01.2 AIP Weighbridge	105	105	0%		105	31-May-21	12-Sep-21	28-Feb-22 1	12-Jun-22	273		
	6A-M42.05.01.2.1 Building services design (excluding fire services installation design)	105	105	0%		105	31-May-21	12-Sep-21		12-Jun-22	273		
	MVAC	105	105	0%	0%	105	31-May-21	12-Sep-21	28-Feb-22 1		273	31-May-21	
	Plumbing	105	105	0%	0%	105	31-May-21	12-Sep-21		12-Jun-22	273	31-May-21	
		105	105	0%	0%	105	31-May-21	12-Sep-21		12-Jun-22	273	31-May-21	ļ
05-5530(5a)	Drainage						-						
05-5540(5a)	ELV	105	105	0%	0%	105	31-May-21	12-Sep-21		12-Jun-22	273	31-May-21	
	Lift	105	105	0%	0%	105	31-May-21	12-Sep-21		12-Jun-22	273	31-May-21	
							31-May-21	27-Sep-21	26-Nov-22 2	95_Mar_93	544		;
	SA-M42.05.01.09 AIP Air Quality Monitoring Stations (2.9)	120	120	0%		120							
05-2250	Design of the Air Quality Monitoring Stations (2.9.01)	120	120	0% 0%	0%	120 Start On or After	31-May-21*	27-Sep-21	26-Nov-22 2	25-Mar-23	544	31-May-21*	
05-2250 EP_SP_66_12-WP6	Design of the Air Quality Monitoring Stations (2.9.01) 6A-M42.05.01.10 AIP Roads and Utilities (2.10)				0%		31-May-21*	27-Sep-21		25-Mar-23			
05-2250 EP_SP_66_12-WP6	Design of the Air Quality Monitoring Stations (2.9.01) 6A-M42.05.01.10 AIP Road sand Utilities (2.10) 6A-M42.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)	120 838 683	120 1051 709	0%	0%	120 Start On or After	31-May-21* 27-Nov-18 A 04-Nov-19 A	27-Sep-21 12-Oct-21 12-Oct-21	26-Nov-22 2 31-May-21 1 31-May-21 1	25-Mar-23 12-Jan-23	544		
05-2250 EP_SP_66_12-WP6	Design of the Air Quality Monitoring Stations (2.9.01) 6A-M42.05.01.10 AIP Roads and Utilities (2.10)	120 838	120 1051	0% 83.89%	0%	120 Start On or After	31-May-21* 27-Nov-18 A	27-Sep-21 12-Oct-21 12-Oct-21	26-Nov-22 2 31-May-21 1 31-May-21 1	25-Mar-23 12-Jan-23	544 457		
05-2250 EP_SP_66_12-WP6 EP_SP_66_12-WP6 05-2350	Design of the Air Quality Monitoring Stations (2.9.01) 6A-M42.05.01.10 AIP Road sand Utilities (2.10) 6A-M42.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)	120 838 683	120 1051 709	0% 83.89% 80.23%	0%	120 Start On or After 135 135	31-May-21* 27-Nov-18 A 04-Nov-19 A	27-Sep-21 12-Oct-21 12-Oct-21	26-Nov-22 2 31-May-21 1 31-May-21 1 31-May-21 2	25-Mar-23 12-Jan-23 13-Apr-22	544 457 183		
05-2250 EP_SP_66_12-WP6 EP_SP_66_12-WP6 05-2350 05-2360	Design of the Air Quality Monitoring Stations (2.9.01)  6A-M42.05.01.10 AIP Road sand Utilities (2.10)  6A-M42.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)  Rainwater harvesting System (2.10.04.04)	120 838 683 135	120 1051 709 225	0% 83.89% 80.23% 80.74%	5%	120 Start On or After  135  135  26 Start On or After	31-May-21* 27-Nov-18 A 04-Nov-19 A 13-Nov-20 A	27-Sep-21 12-Oct-21 12-Oct-21 25-Jun-21	26-Nov-22 2 31-May-21 1 31-May-21 1 31-May-21 2 30-Nov-21 1	25-Mar-23 12-Jan-23 13-Apr-22 25-Jun-21	544 457 183 0		Rainwater harvesting System (2.10.04.04), a
05-2250 EP_SP_66_12-WP6 EP_SP_66_12-WP6 05-2350 05-2360 05-2370	Design of the Air Quality Monitoring Stations (2.9.01)  6A-M42.05.01.10 AIP Road sand Utilities (2.10)  6A-M42.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)  Rainwater harvesting System (2.10.04.04)  Water Tanks (2.10.04.05)  External FS Systems (2.10.04.06)	120 838 683 135 135 135	120 1051 709 225 135 709	0% 83.89% 80.23% 80.74% 0% 0%	5% 0% 5%	120 Start On or After  135  135  26 Start On or After  135 Start On or After  135 Start On or After	31-May-21* 27-Nov-18 A 04-Nov-19 A 13-Nov-20 A 31-May-21* 04-Nov-19 A	27-Sep-21 12-Oct-21 12-Oct-21 25-Jun-21 12-Oct-21 12-Oct-21	26-Nov-22 2 31-May-21 1 31-May-21 1 31-May-21 2 30-Nov-21 1 30-Nov-21 1	25-Mar-23 12-Jan-23 13-Apr-22 25-Jun-21 13-Apr-22 13-Apr-22	544 457 183 0 183 183		Rainwater harvesting System (2.10.04.04),
05-2250  EP_SP_66_12-WP6  EP_SP_66_12-WP6  05-2350  05-2360  05-2370  05-2370-2(M24)	Design of the Air Quality Monitoring Stations (2.9.01)  6A-M42.05.01.10 AIP Roads and Utilities (2.10)  6A-M42.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)  Rainwater harvesting System (2.10.04.04)  Water Tanks (2.10.04.05)  External FS Systems (2.10.04.06)  Building Services system for seawater intake and brine discharge (2.10.04.09)	120 838 683 135 135 135 90	120 1051 709 225 135 709 506	0% 83.89% 80.23% 80.74% 0% 0% 33.33%	5% 0% 5% 5%	120 Start On or After  135  135  26 Start On or After  135 Start On or After  135 60	31-May-21* 27-Nov-18 A 04-Nov-19 A 13-Nov-20 A 31-May-21* 04-Nov-19 A 11-Mar-20 A	27-Sep-21 12-Oct-21 12-Oct-21 25-Jun-21 12-Oct-21 12-Oct-21 29-Jul-21	26-Nov-22 2 31-May-21 1 31-May-21 2 30-Nov-21 1 30-Nov-21 1 11-Jun-21 0	25-Mar-23 12-Jan-23 13-Apr-22 25-Jun-21 13-Apr-22 13-Apr-22 09-Aug-21	544 457 183 0 183 183 11		
05-2250  EP_SP_66_12-WP6  EP_SP_66_12-WP6  05-2350  05-2360  05-2370  05-2370-2(M24)  05-2370-3(5a)	Design of the Air Quality Monitoring Stations (2.9.01)  6A-M42.05.01.10 AIP Roads and Utilities (2.10)  6A-M42.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)  Rainwater harvesting System (2.10.04.04)  Water Tanks (2.10.04.05)  External FS Systems (2.10.04.06)  Building Services system for seawater intake and brine discharge (2.10.04.09)  Chemical scrubber system for odour control (2.10.04.10)	120 838 683 135 135 135 90	120 1051 709 225 135 709 506 218	0% 83.89% 80.23% 80.74% 0% 0% 33.33% 5%	5% 0% 5%	120 Start On or After  135  135  26 Start On or After  135 Start On or After  135 On or After  136 On or After  137 On or After	31-May-21* 27-Nov-18 A 04-Nov-19 A 13-Nov-20 A 31-May-21* 04-Nov-19 A 11-Mar-20 A 19-Jan-21 A	27-Sep-21 12-Oct-21 12-Oct-21 25-Jun-21 12-Oct-21 12-Oct-21 29-Jul-21 24-Aug-21	26-Nov-22 2 31-May-21 1 31-May-21 2 30-Nov-21 1 30-Nov-21 1 11-Jun-21 0 30-Jul-21 2	25-Mar-23 12-Jan-23 13-Apr-22 25-Jun-21 13-Apr-22 13-Apr-22 09-Aug-21 23-Oct-21	544 457 183 0 183 183 111 61	31-May-21*	Rainwater harvesting System (2.10.04.04),
05-2250  EP_SP_66_12-WP6  EP_SP_66_12-WP6  05-2350  05-2360  05-2370  05-2370-2(M24)  05-2370-3(5a)  EP_SP_66_12-WP6	Design of the Air Quality Monitoring Stations (2.9.01)  6A-M42.05.01.10 AIP Roads and Utilities (2.10)  6A-M42.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)  Rainwater harvesting System (2.10.04.04)  Water Tanks (2.10.04.05)  External FS Systems (2.10.04.06)  Building Services system for seawater intake and brine discharge (2.10.04.09)  Chemical scrubber system for odour control (2.10.04.10)  6A-M42.05.01.10.6 Design of telecommunication and other utilities (2.10.06)	120 838 683 135 135 135 90 90	120 1051 709 225 135 709 506 218	0% 83.89% 80.23% 80.74% 0% 0% 33.33% 5% 83.89%	5% 0% 5% 5% 5%	120 Start On or After  135  135  26 Start On or After  135 Start On or After  135 60  86  135	31-May-21* 27-Nov-18 A 04-Nov-19 A 13-Nov-20 A 31-May-21* 04-Nov-19 A 11-Mar-20 A 19-Jan-21 A	27-Sep-21 12-Oct-21 12-Oct-21 25-Jun-21 12-Oct-21 12-Oct-21 29-Jul-21 24-Aug-21 12-Oct-21	26-Nov-22 2 31-May-21 1 31-May-21 1 31-May-21 2 30-Nov-21 1 30-Nov-21 1 11-Jun-21 0 30-Jul-21 2	25-Mar-23 12-Jan-23 13-Apr-22 25-Jun-21 13-Apr-22 13-Apr-22 09-Aug-21 23-Oct-21 12-Jan-23	544 457 183 0 183 183 11 61 457	31-May-21*	Rainwater harvesting System (2.10.04.04),
05-2250  EP_SP_66_12-WP6  EP_SP_66_12-WP6 05-2350 05-2360 05-2370 05-2370-2(M24) 05-2370-3(5a)  EP_SP_66_12-WP6 05-2380	Design of the Air Quality Monitoring Stations (2.9.01)  6A-M42.05.01.10 AIP Roads and Utilities (2.10)  6A-M42.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)  Rainwater harvesting System (2.10.04.04)  Water Tanks (2.10.04.05)  External FS Systems (2.10.04.06)  Building Services system for seawater intake and brine discharge (2.10.04.09)  Chemical scrubber system for odour control (2.10.04.10)  6A-M42.05.01.10.6 Design of telecommunication and other utilities (2.10.06)  Power Distribution System concept / schematics (2.10.06.01)	120 838 683 135 135 135 90 90 838 135	120 1051 709 225 135 709 506 218 1051 289	0% 83.89% 80.23% 80.74% 0% 0% 33.33% 5% 83.89% 0%	5% 0% 5% 5% 5% 5%	120 Start On or After  135  26 Start On or After  135 Start On or After  135 60  86  135 Start On or After	31-May-21* 27-Nov-18 A 04-Nov-19 A 13-Nov-20 A 31-May-21* 04-Nov-19 A 11-Mar-20 A 19-Jan-21 A 27-Nov-18 A 28-Dec-20 A	27-Sep-21 12-Oct-21 12-Oct-21 25-Jun-21 12-Oct-21 12-Oct-21 29-Jul-21 24-Aug-21 12-Oct-21 12-Oct-21	26-Nov-22 2 31-May-21 1 31-May-21 2 31-May-21 2 30-Nov-21 1 30-Nov-21 1 11-Jun-21 0 30-Jul-21 2 06-Jun-21 1 06-Jul-21 1	25-Mar-23 12-Jan-23 13-Apr-22 25-Jun-21 13-Apr-22 13-Apr-22 09-Aug-21 23-Oct-21 12-Jan-23 17-Nov-21	544 457 183 0 183 183 11 61 457 36	31-May-21*	Rainwater harvesting System (2.10.04.04),
05-2250  EP_SP_66_12-WP6  EP_SP_66_12-WP6  05-2350  05-2360  05-2370  05-2370-2(M24)  05-2370-3(5a)  EP_SP_66_12-WP6  05-2380  05-2410	Design of the Air Quality Monitoring Stations (2.9.01)  6A-M42.05.01.10 AIP Roads and Utilities (2.10)  6A-M42.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)  Rainwater harvesting System (2.10.04.04)  Water Tanks (2.10.04.05)  External FS Systems (2.10.04.06)  Building Services system for seawater intake and brine discharge (2.10.04.09)  Chemical scrubber system for odour control (2.10.04.10)  6A-M42.05.01.10.6 Design of telecommunication and other utilities (2.10.06)  Power Distribution System concept / schematics (2.10.06.01)  Site ELV Network System - Communications System concept / schematics (2.10.06.04)	120 838 683 135 135 135 90 90 838 135 135	120 1051 709 225 135 709 506 218 1051 289 583	0% 83.89% 80.23% 80.74% 0% 0% 33.33% 5% 83.89% 0%	5% 0% 5% 5% 5% 5%	120 Start On or After 135 26 Start On or After 135 Start On or After 135 60 86 135 Start On or After 135 Start On or After	31-May-21* 27-Nov-18 A 04-Nov-19 A 13-Nov-20 A 31-May-21* 04-Nov-19 A 11-Mar-20 A 19-Jan-21 A 27-Nov-18 A 28-Dec-20 A 09-Mar-20 A	27-Sep-21 12-Oct-21 12-Oct-21 25-Jun-21 12-Oct-21 12-Oct-21 29-Jul-21 24-Aug-21 12-Oct-21 12-Oct-21 12-Oct-21	26-Nov-22 2 31-May-21 1 31-May-21 2 31-May-21 1 31-May-21 2 30-Nov-21 1 30-Nov-21 1 11-Jun-21 0 30-Jul-21 2 06-Jul-21 1 06-Jul-21 1	25-Mar-23 12-Jan-23 13-Apr-22 25-Jun-21 13-Apr-22 13-Apr-22 09-Aug-21 23-Oct-21 12-Jan-23 17-Nov-21	544 457 183 0 183 183 11 61 457 36 36	31-May-21*	Rainwater harvesting System (2.10.04.04),
05-2250  EP_SP_66_12-WP6  EP_SP_66_12-WP6  05-2350  05-2350  05-2370  05-2370-2(M24)  05-2370-3(5a)  EP_SP_66_12-WP6  05-2380  05-2410  05-2420	Design of the Air Quality Monitoring Stations (2.9.01)  6A-M42.05.01.10 AIP Roadsand Utilities (2.10)  6A-M42.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)  Rainwater harvesting System (2.10.04.04)  Water Tanks (2.10.04.05)  External FS Systems (2.10.04.06)  Building Services system for seawater intake and brine discharge (2.10.04.09)  Chemical scrubber system for odour control (2.10.04.10)  6A-M42.05.01.10.6 Design of telecommunication and other utilities (2.10.06)  Power Distribution System concept / schematics (2.10.06.01)  Site ELV Network System - Communications System concept / schematics (2.10.06.05)	120 838 683 135 135 135 90 90 838 135 135 135	120 1051 709 225 135 709 506 218 1051 289 583 583	0% 83.89% 80.23% 80.74% 0% 0% 33.33% 5% 83.89% 0% 0%	5% 0% 5% 5% 5% 5% 5%	120 Start On or After 135 26 Start On or After 135 Start On or After 135 60 86 135 Start On or After	31-May-21* 27-Nov-18 A 04-Nov-19 A 13-Nov-20 A 31-May-21* 04-Nov-19 A 11-Mar-20 A 19-Jan-21 A 27-Nov-18 A 28-Dec-20 A 09-Mar-20 A	27-Sep-21 12-Oct-21 12-Oct-21 25-Jun-21 12-Oct-21 12-Oct-21 29-Jul-21 24-Aug-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21	26-Nov-22 2 31-May-21 1 31-May-21 2 31-May-21 1 31-May-21 2 30-Nov-21 1 11-Jun-21 0 30-Jul-21 2 06-Jul-21 1 06-Jul-21 1 06-Jul-21 1	25-Mar-23 12-Jan-23 13-Apr-22 25-Jun-21 13-Apr-22 13-Apr-22 09-Aug-21 23-Oct-21 12-Jan-23 17-Nov-21 17-Nov-21	544 457 183 0 183 183 11 61 457 36 36 36	31-May-21*	Rainwater harvesting System (2.10.04.04),
05-2250  P_SP_66_12-WP6  EP_SP_66_12-WP6 05-2350 05-2360 05-2370 05-2370-2(M24) 05-2370-3(5a)  EP_SP_66_12-WP6 05-2380 05-2410 05-2420	Design of the Air Quality Monitoring Stations (2.9.01)  6A-M42.05.01.10 AIP Roads and Utilities (2.10)  6A-M42.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)  Rainwater harvesting System (2.10.04.04)  Water Tanks (2.10.04.05)  External FS Systems (2.10.04.06)  Building Services system for seawater intake and brine discharge (2.10.04.09)  Chemical scrubber system for odour control (2.10.04.10)  6A-M42.05.01.10.6 Design of telecommunication and other utilities (2.10.06)  Power Distribution System concept / schematics (2.10.06.01)  Site ELV Network System - Communications System concept / schematics (2.10.06.04)	120 838 683 135 135 135 90 90 838 135 135	120 1051 709 225 135 709 506 218 1051 289 583	0% 83.89% 80.23% 80.74% 0% 0% 33.33% 5% 83.89% 0%	5% 0% 5% 5% 5% 5%	120 Start On or After 135 26 Start On or After 135 Start On or After 135 60 86 135 Start On or After 135 Hart On or After 135 Start On or After 135 Start On or After 135 Start On or After	31-May-21* 27-Nov-18 A 04-Nov-19 A 13-Nov-20 A 31-May-21* 04-Nov-19 A 11-Mar-20 A 19-Jan-21 A 27-Nov-18 A 28-Dec-20 A 09-Mar-20 A	27-Sep-21 12-Oct-21 12-Oct-21 25-Jun-21 12-Oct-21 12-Oct-21 29-Jul-21 24-Aug-21 12-Oct-21 12-Oct-21 12-Oct-21	26-Nov-22 2 31-May-21 1 31-May-21 2 31-May-21 1 31-May-21 2 30-Nov-21 1 11-Jun-21 0 30-Jul-21 2 06-Jul-21 1 06-Jul-21 1 06-Jul-21 1	25-Mar-23 12-Jan-23 13-Apr-22 25-Jun-21 13-Apr-22 13-Apr-22 09-Aug-21 23-Oct-21 12-Jan-23 17-Nov-21	544 457 183 0 183 183 11 61 457 36 36	31-May-21*	Rainwater harvesting System (2.10.04.04)
05-2250  P_SP_66_12-WP6  EP_SP_66_12-WP0 05-2350 05-2370 05-2370-2(M24) 05-2370-3(5a)  EP_SP_66_12-WP0 05-2380 05-2410 05-2420 05-2430	Design of the Air Quality Monitoring Stations (2.9.01)  6A-M42.05.01.10 AIP Roadsand Utilities (2.10)  6A-M42.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)  Rainwater harvesting System (2.10.04.04)  Water Tanks (2.10.04.05)  External FS Systems (2.10.04.06)  Building Services system for seawater intake and brine discharge (2.10.04.09)  Chemical scrubber system for odour control (2.10.04.10)  6A-M42.05.01.10.6 Design of telecommunication and other utilities (2.10.06)  Power Distribution System concept / schematics (2.10.06.01)  Site ELV Network System - Communications System concept / schematics (2.10.06.05)	120 838 683 135 135 135 90 90 838 135 135 135	120 1051 709 225 135 709 506 218 1051 289 583 583	0% 83.89% 80.23% 80.74% 0% 0% 33.33% 5% 83.89% 0% 0%	5% 0% 5% 5% 5% 5% 5%	120 Start On or After 135 26 Start On or After 135 Start On or After 135 60 86 135 Start On or After	31-May-21* 27-Nov-18 A 04-Nov-19 A 13-Nov-20 A 31-May-21* 04-Nov-19 A 11-Mar-20 A 19-Jan-21 A 27-Nov-18 A 28-Dec-20 A 09-Mar-20 A	27-Sep-21 12-Oct-21 12-Oct-21 25-Jun-21 12-Oct-21 12-Oct-21 29-Jul-21 24-Aug-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21	26-Nov-22 2 31-May-21 1 31-May-21 2 31-May-21 1 31-May-21 2 30-Nov-21 1 11-Jun-21 0 30-Jul-21 2 06-Jul-21 1 06-Jul-21 1 06-Jul-21 1 06-Jul-21 1	25-Mar-23 12-Jan-23 13-Apr-22 25-Jun-21 13-Apr-22 13-Apr-22 09-Aug-21 23-Oct-21 12-Jan-23 17-Nov-21 17-Nov-21	544 457 183 0 183 183 11 61 457 36 36 36	31-May-21* 31-May-21*	Rainwater harvesting System (2.10.04.04)
05-2250  EP_SP_66_12-WP6  EP_SP_66_12-WP  05-2350  05-2370  05-2370-2(M24)  05-2370-3(5a)  EP_SP_66_12-WP  05-2380  05-2410  05-2420  05-2430  05-2440	Design of the Air Quality Monitoring Stations (2.9.01)  6A-M42.05.01.10 AIP Roadsand Utilities (2.10)  6A-M42.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)  Rainwater harvesting System (2.10.04.04)  Water Tanks (2.10.04.05)  External FS Systems (2.10.04.06)  Building Services system for seawater intake and brine discharge (2.10.04.09)  Chemical scrubber system for odour control (2.10.04.10)  6A-M42.05.01.10.6 Design of telecommunication and other utilities (2.10.06)  Power Distribution System concept / schematics (2.10.06.01)  Site ELV Network System - Communications System concept / schematics (2.10.06.05)  Site ELV Network System - Navigation aids concept / schematics (2.10.06.06)	120 838 683 135 135 135 90 90 838 135 135 135 135	120 1051 709 225 135 709 506 218 1051 289 583 583 135	0% 83.89% 80.23% 80.74% 0% 0% 33.33% 5% 83.89% 0% 0% 0%	5% 0% 5% 5% 5% 5% 5% 5%	120 Start On or After 135 26 Start On or After 135 Start On or After 135 Start On or After 135 60 86 135 Start On or After	31-May-21* 27-Nov-18 A 04-Nov-19 A 13-Nov-20 A 31-May-21* 04-Nov-19 A 11-Mar-20 A 19-Jan-21 A 27-Nov-18 A 28-Dec-20 A 09-Mar-20 A 31-May-21*	27-Sep-21 12-Oct-21 12-Oct-21 25-Jun-21 12-Oct-21 12-Oct-21 29-Jul-21 24-Aug-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21	26-Nov-22 2 31-May-21 1 31-May-21 2 30-Nov-21 1 30-Nov-21 1 11-Jun-21 0 30-Jul-21 2 06-Jul-21 1	25-Mar-23 12-Jan-23 13-Apr-22 25-Jun-21 13-Apr-22 13-Apr-22 09-Aug-21 23-Oct-21 12-Jan-23 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21	544 457 183 0 183 183 11 61 457 36 36 36 36	31-May-21*	Rainwater harvesting System (2.10.04.04)
05-2250  EP_SP_66_12-WP6  EP_SP_66_12-WP0 05-2350 05-2370 05-2370-2(M24) 05-2370-3(5a)  EP_SP_66_12-WP0 05-2380 05-2410 05-2420 05-2420 05-2430 05-2440 05-2450	Design of the Air Quality Monitoring Stations (2.9.01)  6A-M42.05.01.10 AIP Roadsand Utilities (2.10)  6A-M42.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)  Rainwater harvesting System (2.10.04.04)  Water Tanks (2.10.04.05)  External FS Systems (2.10.04.06)  Building Services system for seawater intake and brine discharge (2.10.04.09)  Chemical scrubber system for odour control (2.10.04.10)  6A-M42.05.01.10.6 Design of telecommunication and other utilities (2.10.06)  Power Distribution System concept / schematics (2.10.06.01)  Site ELV Network System - Communications System concept / schematics (2.10.06.05)  Site ELV Network System - Navigation aids concept / schematics (2.10.06.06)  Microwave transmission of FS direct link (2.10.06.07)  Fuel Handling System concept / schematics (2.10.06.08)	120 838 683 135 135 135 90 90 838 135 135 135 135 135 135	120 1051 709 225 135 709 506 218 1051 289 583 583 135 1006 628	0% 83.89% 80.23% 80.74% 0% 0% 33.33% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	5% 0% 5% 5% 5% 5% 5% 6% 5% 5% 5%	120 Start On or After 135 26 Start On or After 135 Start On or After	31-May-21* 27-Nov-18 A 04-Nov-19 A 13-Nov-20 A 31-May-21* 04-Nov-19 A 11-Mar-20 A 19-Jan-21 A 27-Nov-18 A 28-Dec-20 A 09-Mar-20 A 31-May-21* 27-Nov-18 A 24-Jan-20 A	27-Sep-21 12-Oct-21 12-Oct-21 25-Jun-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21	26-Nov-22 2 31-May-21 1 31-May-21 2 30-Nov-21 1 30-Nov-21 1 30-Nov-21 1 11-Jun-21 0 30-Jul-21 2 06-Jul-21 1	25-Mar-23 12-Jan-23 13-Apr-22 25-Jun-21 13-Apr-22 13-Apr-22 13-Apr-22 29-Aug-21 23-Oct-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21	544 457 183 0 183 183 111 61 457 36 36 36 36 36 457	31-May-21* 31-May-21*	Rainwater harvesting System (2.10.04.04)
05-2250  EP_SP_66_12-WP6  EP_SP_66_12-WP0 05-2350 05-2370 05-2370-2(M24) 05-2370-3(5a)  EP_SP_66_12-WP0 05-2380 05-2410 05-2420 05-2420 05-2430 05-2440 05-2450 05-3190	Design of the Air Quality Monitoring Stations (2.9.01)  6A-M42.05.01.10 AIP Roadsand Utilities (2.10)  6A-M42.05.01.10 AIP Roadsand Utilities (2.10)  6A-M42.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)  Rainwater harvesting System (2.10.04.04)  Water Tanks (2.10.04.05)  External FS Systems (2.10.04.06)  Building Services system for seawater intake and brine discharge (2.10.04.09)  Chemical scrubber system for odour control (2.10.04.10)  6A-M42.05.01.10.6 Design of telecommunication and other utilities (2.10.06)  Power Distribution System concept / schematics (2.10.06.01)  Site ELV Network System - Communications System concept / schematics (2.10.06.05)  Site ELV Network System - Navigation aids concept / schematics (2.10.06.06)  Microwave transmission of FS direct link (2.10.06.07)  Fuel Handling System concept / schematics (2.10.06.08)  Computerised Maintenance Management System (CMMS)	120 838 683 135 135 135 90 90 90 838 135 135 135 135 135 135 135	120 1051 709 225 135 709 506 218 1051 289 583 583 135 1006 628 796	0% 83.89% 80.23% 80.74% 0% 0% 33.33% 5% 0% 0% 0% 0% 0% 0% 28.57%	5% 0% 5% 5% 5% 5% 5% 6% 5% 5% 5% 5%	120 Start On or After 135 26 Start On or After 135 Start On or After 135 60 86 135 Start On or After	31-May-21* 27-Nov-18 A 04-Nov-19 A 13-Nov-20 A 31-May-21* 04-Nov-19 A 11-Mar-20 A 19-Jan-21 A 27-Nov-18 A 28-Dec-20 A 09-Mar-20 A 31-May-21* 27-Nov-18 A 24-Jan-20 A 10-Jun-19 A	27-Sep-21 12-Oct-21 12-Oct-21 25-Jun-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 13-Aug-21	26-Nov-22 2 31-May-21 1 31-May-21 2 30-Nov-21 1 30-Nov-21 1 11-Jun-21 0 30-Jul-21 2 06-Jul-21 1	25-Mar-23 12-Jan-23 13-Apr-22 25-Jun-21 13-Apr-22 13-Apr-22 09-Aug-21 23-Oct-21 12-Jan-23 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21	544 457 183 0 183 183 111 61 457 36 36 36 36 36 457	31-May-21* 31-May-21*	Rainwater harvesting System (2.10.04.04),  29-Jul-21, Build
05-2250  EP_SP_66_12-WP6  EP_SP_66_12-WP0  05-2350  05-2370  05-2370-2(M24)  05-2370-3(5a)  EP_SP_66_12-WP0  05-2420  05-2420  05-2420  05-2430  05-2440  05-2450  05-3190  05-3200	Design of the Air Quality Monitoring Stations (2.9.01)  6A-M42.05.01.10 AIP Roadsand Utilities (2.10)  6A-M42.05.01.10 AIP Roadsand Utilities (2.10)  6A-M42.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)  Rainwater harvesting System (2.10.04.04)  Water Tanks (2.10.04.05)  External FS Systems (2.10.04.06)  Building Services system for seawater intake and brine discharge (2.10.04.09)  Chemical scrubber system for odour control (2.10.04.10)  6A-M42.05.01.10.6 Design of telecommunication and other utilities (2.10.06)  Power Distribution System concept / schematics (2.10.06.01)  Site ELV Network System - Communications System concept / schematics (2.10.06.05)  Site ELV Network System - Navigation aids concept / schematics (2.10.06.06)  Microwave transmission of FS direct link (2.10.06.07)  Fuel Handling System concept / schematics (2.10.06.08)  Computerised Maintenance Management System (CMMS)  Information and Document Management System (IDMS)	120 838 683 135 135 135 90 90 90 838 135 135 135 135 135 135 135 135	120 1051 709 225 135 709 506 218 1051 289 583 583 135 1006 628 796 761	0% 83.89% 80.23% 80.74% 0% 0% 33.33% 5% 0% 0% 0% 0% 28.57%	5% 0% 5% 5% 5% 5% 0% 33.33% 5% 5% 5%	120 Start On or After  135 26 Start On or After  135 Start On or After  135 60 86 135 Start On or After  5 Start On or After  5 Start On or After  75 Start On or After  75 Start On or After	31-May-21* 27-Nov-18 A 04-Nov-19 A 13-Nov-20 A 31-May-21* 04-Nov-19 A 11-Mar-20 A 19-Jan-21 A 27-Nov-18 A 28-Dec-20 A 09-Mar-20 A 31-May-21* 27-Nov-18 A 24-Jan-20 A 10-Jun-19 A 15-Jul-19 A	27-Sep-21 12-Oct-21 12-Oct-21 25-Jun-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 13-Aug-21 13-Aug-21	26-Nov-22 2 31-May-21 1 31-May-21 2 30-Nov-21 1 30-Nov-21 1 11-Jun-21 0 30-Jul-21 1 06-Jul-21 1	25-Mar-23 12-Jan-23 13-Apr-22 25-Jun-21 13-Apr-22 13-Apr-22 19-Aug-21 23-Oct-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21	544 457 183 0 183 183 111 61 457 36 36 36 36 457 155	31-May-21* 31-May-21*	Rainwater harvesting System (2.10.04.04),  29-Jul-21, Build
05-2250  EP_SP_66_12-WP6  EP_SP_66_12-WP0 05-2350 05-2360 05-2370-2(M24) 05-2370-3(5a)  EP_SP_66_12-WP0 05-2410 05-2420 05-2420 05-2430 05-2440 05-2450 05-3190 05-3200 05-3840 (M22)	Design of the Air Quality Monitoring Stations (2.9.01)  6A-M42.05.01.10 AIP Roads and Utilities (2.10)  6A-M42.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)  Rainwater harvesting System (2.10.04.04)  Water Tanks (2.10.04.05)  External FS Systems (2.10.04.06)  Building Services system for seawater intake and brine discharge (2.10.04.09)  Chemical scrubber system for odour control (2.10.04.10)  6A-M42.05.01.10.6 Design of telecommunication and other utilities (2.10.06)  Power Distribution System concept / schematics (2.10.06.01)  Site ELV Network System - Communications System concept / schematics (2.10.06.05)  Site ELV Network System - Navigation aids concept / schematics (2.10.06.06)  Microwave transmission of FS direct link (2.10.06.07)  Fuel Handling System concept / schematics (2.10.06.08)  Computerised Maintenance Management System (CMMS)  Information and Document Management System (IDMS)  Automatic Traffic Control System (ATCS) (2.10.06.12)	120 838 683 135 135 135 90 90 90 838 135 135 135 135 135 135 135 135	120 1051 709 225 135 709 506 218 1051 289 583 583 135 1006 628 796 761 90	0% 83.89% 80.23% 80.74% 0% 0% 33.33% 5% 0% 0% 0% 0% 28.57% 0%	5% 0% 5% 5% 5% 5% 5% 6% 5% 5% 5% 5%	120 Start On or After  135 26 Start On or After  135 Start On or After  5 Start On or After  90 Start On or After  5 Start On or After  5 Start On or After  5 Start On or After	31-May-21* 27-Nov-18 A 04-Nov-19 A 13-Nov-20 A 31-May-21* 04-Nov-19 A 11-Mar-20 A 19-Jan-21 A 27-Nov-18 A 28-Dec-20 A 09-Mar-20 A 31-May-21* 27-Nov-18 A 24-Jan-20 A 10-Jun-19 A 15-Jul-19 A 31-May-21	27-Sep-21 12-Oct-21 12-Oct-21 25-Jun-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 13-Aug-21 13-Aug-21 13-Aug-21 13-Aug-21 13-Aug-21	26-Nov-22 2 31-May-21 1 31-May-21 2 30-Nov-21 1 30-Nov-21 1 11-Jun-21 2 30-Jul-21 2 06-Jul-21 1	25-Mar-23 12-Jan-23 13-Apr-22 25-Jun-21 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21	544  457  183  0  183  183  11  61  457  36  36  36  36  457  155  155  25	31-May-21* 31-May-21*	Rainwater harvesting System (2:10.04.04),  29-Jul-21, Build  13-
05-2250  EP_SP_66_12-WP6  EP_SP_66_12-WP0  05-2350  05-2360  05-2370  05-2370-2(M24)  05-2370-3(5a)  EP_SP_66_12-WP0  05-2380  05-2410  05-2420  05-2430  05-2440  05-2450  05-3190  05-3200  05-3840 (M22)  EP_SP_66_12-WP0	Design of the Air Quality Monitoring Stations (2.9.01)  6A-M42.05.01.10 AIP Roads and Utilities (2.10)  6A-M42.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)  Rainwater harvesting System (2.10.04.04)  Water Tanks (2.10.04.05)  External FS Systems (2.10.04.06)  Building Services system for seawater intake and brine discharge (2.10.04.09)  Chemical scrubber system for odour control (2.10.04.10)  6A-M42.05.01.10.6 Design of telecommunication and other utilities (2.10.06)  Power Distribution System concept / schematics (2.10.06.01)  Site ELV Network System - Communications System concept / schematics (2.10.06.05)  Site ELV Network System - Navigation aids concept / schematics (2.10.06.06)  Microwave transmission of FS direct link (2.10.06.07)  Fuel Handling System concept / schematics (2.10.06.08)  Computerised Maintenance Management System (IDMS)  Information and Document Management System (IDMS)  Automatic Traffic Control System (ATCS) (2.10.06.12)	120 838 683 135 135 135 135 90 90 838 135 135 135 135 135 135 135 135	120 1051 709 225 135 709 506 218 1051 289 583 583 135 1006 628 796 761 90 366	0% 83.89% 80.23% 80.74% 0% 0% 33.33% 5% 83.89% 0% 0% 0% 0% 0% 5% 33.33% 0% 28.57% 28.57% 0%	5% 0% 5% 5% 5% 5% 0% 33.33% 5% 5% 0%	120 Start On or After  135 26 Start On or After  135 Start On or After  5 Start On or After  90  135 Start On or After  90  135 Start On or After  90  135 Start On or After  90  137 Start On or After  90  138 Start On or After  90  139 Start On or After  90  90	31-May-21* 27-Nov-18 A 04-Nov-19 A 13-Nov-20 A 31-May-21* 04-Nov-19 A 11-Mar-20 A 19-Jan-21 A 27-Nov-18 A 28-Dec-20 A 09-Mar-20 A 31-May-21* 27-Nov-18 A 24-Jan-20 A 10-Jun-19 A 15-Jul-19 A 31-May-21 28-Aug-20 A	27-Sep-21 12-Oct-21 12-Oct-21 25-Jun-21 12-Oct-21 12-Oct-21 29-Jul-21 24-Aug-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 13-Aug-21 13-Aug-21 13-Aug-21 13-Aug-21 13-Aug-21	26-Nov-22 2 31-May-21 1 31-May-21 2 30-Nov-21 1 30-Nov-21 1 11-Jun-21 0 30-Jul-21 2 06-Jul-21 1 20-Nov-21 1 02-Nov-21 1 25-Jun-21 2	25-Mar-23 12-Jan-23 13-Apr-22 25-Jun-21 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 13-Aug-21 12-Jan-23 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21	544  457  183  0  183  183  111  61  457  36  36  36  36  457  155  155  25  348	31-May-21* 31-May-21*	Rainwater harvesting System (2:10.04.04),  29-Jul-21, Build  13-
05-2250  EP_SP_66_12-WP6  EP_SP_66_12-WP0 05-2350 05-2370 05-2370-2(M24) 05-2370-3(5a)  EP_SP_66_12-WP0 05-2380 05-2410 05-2420 05-2420 05-2440 05-2450 05-3190 05-3200 05-3840 (M22)  EP_SP_66_12-WP0 05-2460	Design of the Air Quality Monitoring Stations (2.9.01)  6A-M42.05.01.10 AIP Roads and Utilities (2.10)  6A-M42.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)  Rainwater harvesting System (2.10.04.04)  Water Tanks (2.10.04.05)  External FS Systems (2.10.04.06)  Building Services system for seawater intake and brine discharge (2.10.04.09)  Chemical scrubber system for odour control (2.10.04.10)  6A-M42.05.01.10.6 Design of telecommunication and other utilities (2.10.06)  Power Distribution System concept / schematics (2.10.06.01)  Site ELV Network System - Communications System concept / schematics (2.10.06.05)  Site ELV Network System - Navigation aids concept / schematics (2.10.06.06)  Microwave transmission of FS direct link (2.10.06.07)  Fuel Handling System concept / schematics (2.10.06.08)  Computerised Maintenance Management System (IDMS)  Automatic Traffic Control System (ATCS) (2.10.06.12)  6A-M42.05.01.10.7 Utility ducts/Pipebridges design (2.10.25)  Design of Pipe / Utilities Trenches concept (2.10.06.09.1)	120 838 683 135 135 135 135 90 90 838 135 135 135 135 135 135 135 135	120 1051 709 225 135 709 506 218 1051 289 583 583 135 1006 628 796 761 90 366 366	0% 83.89% 80.23% 80.74% 0% 0% 33.33% 5% 83.89% 0% 0% 0% 0% 45.45% 14.29%	5% 0% 5% 5% 5% 5% 5% 5% 5% 0% 33.33% 5% 5% 5%	120 Start On or After  135 26 Start On or After  135 Start On or After  135 60 86 135 135 Start On or After  90 136 Start On or After  90 90 90	31-May-21* 27-Nov-18 A 04-Nov-19 A 13-Nov-20 A 31-May-21* 04-Nov-19 A 11-Mar-20 A 19-Jan-21 A 27-Nov-18 A 28-Dec-20 A 09-Mar-20 A 31-May-21* 27-Nov-18 A 24-Jan-20 A 10-Jun-19 A 15-Jul-19 A 31-May-21 28-Aug-20 A 28-Aug-20 A	27-Sep-21 12-Oct-21 12-Oct-21 25-Jun-21 12-Oct-21 12-Oct-21 29-Jul-21 24-Aug-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 12-Oct-21 28-Aug-21 13-Aug-21 28-Aug-21 28-Aug-21	26-Nov-22 2 31-May-21 1 31-May-21 2 30-Nov-21 1 30-Nov-21 1 11-Jun-21 0 30-Jul-21 2 06-Jul-21 1	25-Mar-23 12-Jan-23 13-Apr-22 25-Jun-21 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 13-Aug-23 11-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 15-Jan-23 15-Jan-22 15-Jan-22 15-Jan-22 11-Aug-22 11-Aug-22	544  457  183  0  183  183  111  61  457  36  36  36  36  457  155  155  25  348  348	31-May-21* 31-May-21*	Rainwater harvesting System (2.10.04.04),  29-Jul-21, Buil
05-2250  P_SP_66_12-WP6  EP_SP_66_12-WP0 05-2350 05-2370 05-2370-2(M24) 05-2370-3(5a)  EP_SP_66_12-WP0 05-2410 05-2420 05-2440 05-2440 05-2450 05-3190 05-3200 05-3840 (M22)  EP_SP_66_12-WP0 05-2460 05-2470	Design of the Air Quality Monitoring Stations (2.9.01)  6A-M42.05.01.10 AIP Roads and Utilities (2.10)  6A-M42.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)  Rainwater harvesting System (2.10.04.04)  Water Tanks (2.10.04.05)  External FS Systems (2.10.04.06)  Building Services system for seawater intake and brine discharge (2.10.04.09)  Chemical scrubber system for odour control (2.10.04.10)  6A-M42.05.01.10.6 Design of telecommunication and other utilities (2.10.06)  Power Distribution System concept / schematics (2.10.06.01)  Site ELV Network System - Communications System concept / schematics (2.10.06.05)  Site ELV Network System - Navigation aids concept / schematics (2.10.06.06)  Microwave transmission of FS direct link (2.10.06.07)  Fuel Handling System concept / schematics (2.10.06.08)  Computerised Maintenance Management System (IDMS)  Automatic Traffic Control System (ATCS) (2.10.06.12)  6A-M42.05.01.10.7 Utility ducts/Pipebridges design (2.10.25)  Design of Pipe / Utilities Trenches concept (2.10.06.09.01)  Sitewide Utilities Trenches Design (2.10.06.09.02)	120 838 683 135 135 135 135 90 90 838 135 135 135 135 135 135 135 135	120 1051 709 225 135 709 506 218 1051 289 583 583 135 1006 628 796 761 90 366 366 366	0% 83.89% 80.23% 80.74% 0% 0% 33.33% 5% 83.89% 0% 0% 0% 0% 45.45% 14.29%	5% 0% 5% 5% 5% 5% 0% 33.33% 5% 5% 0%	120 Start On or After  135 26 Start On or After  135 Start On or After  135 60 86 135 135 Start On or After  90 136 Start On or After  90 90 90 90	31-May-21*  27-Nov-18 A  04-Nov-19 A  13-Nov-20 A  31-May-21*  04-Nov-19 A  11-Mar-20 A  19-Jan-21 A  27-Nov-18 A  28-Dec-20 A  09-Mar-20 A  31-May-21*  27-Nov-18 A  24-Jan-20 A  10-Jun-19 A  15-Jul-19 A  31-May-21  28-Aug-20 A  28-Aug-20 A	27-Sep-21 12-Oct-21 28-Aug-21 13-Aug-21 28-Aug-21 28-Aug-21	26-Nov-22 2 31-May-21 1 31-May-21 2 30-Nov-21 1 30-Nov-21 1 11-Jun-21 0 30-Jul-21 2 06-Jul-21 1 25-Jun-21 2 14-May-22 1 14-May-22 1	25-Mar-23 12-Jan-23 13-Apr-22 25-Jun-21 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 12-Jan-23 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 11-Jan-23 15-Jan-22 22-Sep-21 11-Aug-22 11-Aug-22 11-Aug-22	544  457  183  0  183  183  111  61  457  36  36  36  36  457  155  155  25  348  348  348	31-May-21* 31-May-21* 31-May-21	Rainwater harvesting System (2.10.04.04),  29-Jul-21, Buil
D5-2250 P_SP_66_12-WP6 EP_SP_66_12-WP6 05-2350 05-2360 05-2370-2(M24) 05-2370-3(5a) EP_SP_66_12-WP6 05-2430 05-2410 05-2440 05-2440 05-2450 05-380 05-380 05-380 05-340 05-2440 05-2450 05-3200 05-380 05-3200 05-3800 05-3800 05-3800 05-3800 05-2470 EP_SP_66_12-WP6 05-2450	Design of the Air Quality Monitoring Stations (2.9.01)  6A-M42.05.01.10 AIP Roads and Utilities (2.10)  6A-M42.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)  Rainwater harvesting System (2.10.04.04)  Water Tanks (2.10.04.05)  External FS Systems (2.10.04.06)  Building Services system for seawater intake and brine discharge (2.10.04.09)  Chemical scrubber system for odour control (2.10.04.10)  6A-M42.05.01.10.6 Design of telecommunication and other utilities (2.10.06)  Power Distribution System concept / schematics (2.10.06.01)  Site ELV Network System - Communications System concept / schematics (2.10.06.05)  Site ELV Network System - Navigation aids concept / schematics (2.10.06.05)  Site ELV Network System - Navigation aids concept / schematics (2.10.06.06)  Microwave transmission of FS direct link (2.10.06.07)  Fuel Handling System concept / schematics (2.10.06.08)  Computerised Maintenance Management System (IDMS)  Information and Document Management System (IDMS)  Automatic Traffic Control System (ATCS) (2.10.06.12)  6A-M42.05.01.10.7 Utility ducts/Pipebridges design (2.10.25)  Design of Pipe / Utilities Trenches concept (2.10.06.09.02)  P6A-M42.05.01.10.7.2 Structure Plan for Pipe Bridge Network	120 838 683 135 135 135 90 90 838 135 135 135 135 135 135 135 135	120 1051 709 225 135 709 506 218 1051 289 583 583 135 1006 628 796 761 90 366 366 366 366 56	0% 83.89% 80.23% 80.74% 0% 0% 33.33% 5% 83.89% 0% 0% 0% 28.57% 0% 45.45% 14.29% 77.78%	5% 5% 5% 5% 5% 5% 5% 5% 5% 6% 5% 5% 5% 5% 5%	120 Start On or After 135 26 Start On or After 135 Start On or After 135 60 86 135 Start On or After 136 Start On or After 137 Start On or After 138 Start On or After 139 Start On or After 139 Start On or After 130 Start On or After 131 Start On or After 132 Start On or After 133 Start On or After 134 Start On or After 135 Start On or After 136 Start On or After 137 Start On or After 138 Start On or After	31-May-21*  27-Nov-18 A  04-Nov-19 A  13-Nov-20 A  31-May-21*  04-Nov-19 A  11-Mar-20 A  19-Jan-21 A  27-Nov-18 A  28-Dec-20 A  09-Mar-20 A  31-May-21*  27-Nov-18 A  24-Jan-20 A  10-Jun-19 A  15-Jul-19 A  31-May-21  28-Aug-20 A  28-Aug-20 A  05-May-21 A	27-Sep-21 12-Oct-21 28-Aug-21 28-Aug-21 28-Aug-21 28-Aug-21 28-Aug-21 28-Aug-21 29-Jun-21	26-Nov-22 2 31-May-21 1 31-May-21 2 30-Nov-21 1 30-Nov-21 1 11-Jun-21 0 30-Jul-21 1 06-Jul-21 1 14-May-22 1 14-May-22 1 14-May-22 1 14-May-22 1 06-Aug-21 0	25-Mar-23 12-Jan-23 13-Apr-22 25-Jun-21 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 13-Aur-23 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 11-Jan-23 15-Jan-22 22-Sep-21 11-Aug-22 11-Aug-22 11-Aug-22 11-Aug-22 04-Oct-21	544  457  183  0  183  183  111  61  457  36  36  36  36  457  155  155  25  348  348  348	31-May-21* 31-May-21* 31-May-21	Rainwater harvesting System (2.10.04.04)  29-Jul-21, Buil
05-2250  P_SP_66_12-WP6  EP_SP_66_12-WP6  05-2350  05-2360  05-2370  05-2370-2(M24)  05-2370-3(5a)  EP_SP_66_12-WP6  05-2430  05-2440  05-2440  05-2450  05-380  05-340  05-3200  05-380  05-340  05-3200  05-380  05-3200  05-3200  05-3200  05-3200  05-3200  05-3200  05-3200  05-3200  05-3200  05-3200  05-3200  05-3200  05-3200  05-3200  05-3200  05-3200  05-3200  05-3200  05-3200  05-3200  05-3200  05-3200  05-3200  05-3200  05-3200  05-3200  05-3200  05-3200  05-3200	Design of the Air Quality Monitoring Stations (2.9.01)  6A-M42.05.01.10 AIP Roads and Utilities (2.10)  6A-M42.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)  Rainwater harvesting System (2.10.04.04)  Water Tanks (2.10.04.05)  External FS Systems (2.10.04.06)  Building Services system for seawater intake and brine discharge (2.10.04.09)  Chemical scrubber system for odour control (2.10.04.10)  6A-M42.05.01.10.6 Design of telecommunication and other utilities (2.10.06)  Power Distribution System concept / schematics (2.10.06.01)  Site ELV Network System - Communications System concept / schematics (2.10.06.05)  Site ELV Network System - Navigation aids concept / schematics (2.10.06.06)  Microwave transmission of FS direct link (2.10.06.07)  Fuel Handling System concept / schematics (2.10.06.08)  Computerised Maintenance Management System (IDMS)  Automatic Traffic Control System (ATCS) (2.10.06.12)  6A-M42.05.01.10.7 Utility ducts/Pipebridges design (2.10.25)  Design of Pipe / Utilities Trenches concept (2.10.06.09.01)  Sitewide Utilities Trenches Design (2.10.06.09.02)	120 838 683 135 135 135 135 135 135 135 135 135 13	120 1051 709 225 135 709 506 218 1051 289 583 583 135 1006 628 796 761 90 366 366 366	0% 83.89% 80.23% 80.74% 0% 0% 33.33% 5% 83.89% 0% 0% 0% 28.57% 28.57% 0% 45.45% 14.29% 77.78%	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5	120 Start On or After 135 26 Start On or After 135 Start On or After 135 60 86 135 Start On or After 136 Start On or After 137 Start On or After 138 Start On or After 139 Start On or After 139 Start On or After 130 Start On or After 131 Start On or After 132 Start On or After 133 Start On or After 134 Start On or After 135 Start On or After 136 Start On or After 137 Start On or After 138 Start On or After 139 Start On or After	31-May-21*  27-Nov-18 A  04-Nov-19 A  13-Nov-20 A  31-May-21*  04-Nov-19 A  11-Mar-20 A  19-Jan-21 A  27-Nov-18 A  28-Dec-20 A  09-Mar-20 A  31-May-21*  27-Nov-18 A  24-Jan-20 A  10-Jun-19 A  15-Jul-19 A  31-May-21  28-Aug-20 A  28-Aug-20 A	27-Sep-21 12-Oct-21 28-Aug-21 12-Aug-21 28-Aug-21 28-Aug-21 28-Aug-21 28-Aug-21 28-Aug-21	26-Nov-22 2 31-May-21 1 31-May-21 2 30-Nov-21 1 30-Nov-21 1 11-Jun-21 0 30-Jul-21 2 06-Jul-21 1 25-Jun-21 2 14-May-22 1 14-May-22 1	25-Mar-23 12-Jan-23 13-Apr-22 25-Jun-21 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 13-Aur-23 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 11-Jan-23 15-Jan-22 22-Sep-21 11-Aug-22 11-Aug-22 11-Aug-22 11-Aug-22 04-Oct-21	544  457  183  0  183  183  111  61  457  36  36  36  36  457  155  155  25  348  348  348  97  Extracted Activity	31-May-21* 31-May-21* 31-May-21	Rainwater harvesting System (2.10.04.04),  29-Jul-21, Built  13-  13-
05-2250  P_SP_66_12-WP6  EP_SP_66_12-WP0 05-2350 05-2360 05-2370-2(M24) 05-2370-3(5a)  EP_SP_66_12-WP0 05-2380 05-2410 05-2420 05-2440 05-2440 05-2450 05-3190 05-3200 05-3840 (M22)  EP_SP_66_12-WP0 05-2460 05-2470  EP_SP_66_12-WF0 05-2470	Design of the Air Quality Monitoring Stations (2.9.01)  6A-M42.05.01.10 AIP Roads and Utilities (2.10)  6A-M42.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)  Rainwater harvesting System (2.10.04.04)  Water Tanks (2.10.04.05)  External FS Systems (2.10.04.06)  Building Services system for seawater intake and brine discharge (2.10.04.09)  Chemical scrubber system for odour control (2.10.04.10)  6A-M42.05.01.10.6 Design of telecommunication and other utilities (2.10.06)  Power Distribution System concept / schematics (2.10.06.01)  Site ELV Network System - Communications System concept / schematics (2.10.06.05)  Site ELV Network System - Navigation aids concept / schematics (2.10.06.05)  Site ELV Network System - Navigation aids concept / schematics (2.10.06.06)  Microwave transmission of FS direct link (2.10.06.07)  Fuel Handling System concept / schematics (2.10.06.08)  Computerised Maintenance Management System (IDMS)  Information and Document Management System (IDMS)  Automatic Traffic Control System (ATCS) (2.10.06.12)  6A-M42.05.01.10.7 Utility ducts/Pipebridges design (2.10.25)  Design of Pipe / Utilities Trenches concept (2.10.06.09.02)  P6A-M42.05.01.10.7.2 Structure Plan for Pipe Bridge Network	120 838 683 135 135 135 90 90 838 135 135 135 135 135 135 135 135	120 1051 709 225 135 709 506 218 1051 289 583 583 135 1006 628 796 761 90 366 366 366 366 56	0% 83.89% 80.23% 80.74% 0% 0% 33.33% 5% 83.89% 0% 0% 0% 28.57% 0% 45.45% 14.29% 77.78%	5% 5% 5% 5% 5% 5% 5% 5% 5% 6% 5% 5% 5% 5% 5%	120 Start On or After 135 26 Start On or After 135 Start On or After 136 Start On or After 137 Start On or After 138 Start On or After 139 Start On or After 130 Start On or After 131 Start On or After 132 Start On or After 133 Start On or After 134 Start On or After 145 Start On or After 157 Start On or After 158 Start On or After 159 Start On or After 159 Start On or After 150 Start On or After	31-May-21*  27-Nov-18 A  04-Nov-19 A  13-Nov-20 A  31-May-21*  04-Nov-19 A  11-Mar-20 A  19-Jan-21 A  27-Nov-18 A  28-Dec-20 A  09-Mar-20 A  31-May-21*  27-Nov-18 A  24-Jan-20 A  10-Jun-19 A  15-Jul-19 A  31-May-21  28-Aug-20 A  28-Aug-20 A  05-May-21 A	27-Sep-21 12-Oct-21 13-Aug-21 12-Aug-21 28-Aug-21 28-Aug-21 29-Jun-21 29-Jun-21	26-Nov-22 2 31-May-21 1 31-May-21 2 30-Nov-21 1 30-Nov-21 1 11-Jun-21 0 30-Jul-21 1 06-Jul-21 1 14-May-22 1 14-May-22 1 14-May-22 1 14-May-22 1 06-Aug-21 0	25-Mar-23 12-Jan-23 13-Apr-22 25-Jun-21 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 13-Aur-23 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-21 117-Nov-2	544  457  183  0  183  183  111  61  457  36  36  36  36  457  155  155  25  348  348  348	31-May-21*  31-May-21*  31-May-21*	Rainwater harvesting System (2.10.04.04),  29-Jul-21, Buile  13-  13-  13-  29-Jun-21, Pipebridge B, Pipebridge B, 29-Jun-21, Pipebridge C, Pipebridge C.
05-2250  P_SP_66_12-WP6 EP_SP_66_12-WP0 05-2350 05-2370 05-2370-2(M24) 05-2370-3(5a)  EP_SP_66_12-WP0 05-2380 05-2410 05-2420 05-2420 05-2430 05-2440 05-2450 05-3190 05-3200 05-3840 (M22)  EP_SP_66_12-WP0 05-2460 05-2470  EP_SP_66_12-WF0 05-2470	Design of the Air Quality Monitoring Stations (2.9.01)  6A-M42.05.01.10 AIP Roads and Utilities (2.10)  6A-M42.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)  Rainwater harvesting System (2.10.04.04)  Water Tanks (2.10.04.05)  External FS Systems (2.10.04.06)  Building Services system for seawater intake and brine discharge (2.10.04.09)  Chemical scrubber system for odour control (2.10.04.10)  6A-M42.05.01.10.6 Design of telecommunication and other utilities (2.10.06)  Power Distribution System concept / schematics (2.10.06.01)  Site ELV Network System - Communications System concept / schematics (2.10.06.05)  Site ELV Network System - Navigation aids concept / schematics (2.10.06.05)  Site ELV Network System - Navigation aids concept / schematics (2.10.06.06)  Microwave transmission of FS direct link (2.10.06.07)  Fuel Handling System concept / schematics (2.10.06.08)  Computerised Maintenance Management System (IDMS)  Information and Document Management System (IDMS)  Automatic Traffic Control System (ATCS) (2.10.06.12)  6A-M42.05.01.10.7 Utility ducts/Pipebridges design (2.10.25)  Design of Pipe / Utilities Trenches concept (2.10.06.09.02)  P6A-M42.05.01.10.7.2 Structure Plan for Pipe Bridge Network  Pipebridge B	120 838 683 135 135 135 135 135 135 135 135 135 13	120 1051 709 225 135 709 506 218 1051 289 583 583 135 1006 628 796 761 90 366 366 366 366 56	0% 83.89% 80.23% 80.74% 0% 0% 33.33% 5% 83.89% 0% 0% 28.57% 28.57% 0% 45.45% 14.29% 77.78% 77.78%	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5	120 Start On or After 135 26 Start On or After 135 Start On or After 135 60 86 135 Start On or After 136 Start On or After 137 Start On or After 138 Start On or After 139 Start On or After 139 Start On or After 130 Start On or After 131 Start On or After 132 Start On or After 133 Start On or After 134 Start On or After 135 Start On or After 136 Start On or After 137 Start On or After 138 Start On or After 139 Start On or After	31-May-21*  27-Nov-18 A 04-Nov-19 A 13-Nov-20 A 31-May-21* 04-Nov-19 A 11-Mar-20 A 19-Jan-21 A 28-Dec-20 A 09-Mar-20 A 31-May-21* 27-Nov-18 A 24-Jan-20 A 10-Jun-19 A 15-Jul-19 A 31-May-21 28-Aug-20 A 28-Aug-20 A 28-Aug-20 A 05-May-21 A 05-May-21 A	27-Sep-21  12-Oct-21  28-Aug-21  13-Aug-21  13-Aug-21  28-Aug-21  28-Aug-21  28-Aug-21  28-Aug-21  29-Jun-21  29-Jun-21	26-Nov-22 2 31-May-21 1 31-May-21 2 31-May-21 1 31-May-21 2 30-Nov-21 1 11-Jun-21 0 30-Jul-21 1 06-Jul-21 1 10-Jun-21 0 31-Aug-22 1 02-Nov-21 1 25-Jun-21 2 14-May-22 1 14-May-22 1 14-May-22 1 06-Aug-21 0 05-Sep-21 0	25-Mar-23 12-Jan-23 13-Apr-22 25-Jun-21 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 11-Nov-21 11-Nov-21 11-Nov-21 11-Nov-21 11-Nov-21 11-Nov-21 11-Nov-21 11-Nov-21 11-Nov-21 11-Nov-21 11-Nov-21 11-Nov-21 11-Nov-21 11-Nov-21 11-Nov-21 11-Nov-21 11-Aug-22 11-Aug-22 11-Aug-22 11-Aug-22 11-Aug-22 11-Aug-22 11-Aug-22 11-Aug-22 11-Aug-22 11-Aug-22 11-Aug-22 11-Aug-22 11-Aug-22 11-Aug-22 11-Aug-22 11-Aug-22 11-Aug-22 11-Aug-22 11-Aug-22 11-Aug-22 11-Aug-22	544  457  183  0  183  183  111  61  457  36  36  36  36  457  155  155  25  348  348  348  97  Extracted Activity	31-May-21*  31-May-21*  31-May-21	Rainwater harvesting System (2.10.04.04),  29-Jul-21, Build  13-  13-  29-Jun-21, Pipebridge B, Pipebridge B, 29-Jun-21, Pipebridge C, Pipebridge C,
05-2250  EP_SP_66_12-WP6  EP_SP_66_12-WP0 05-2350 05-2370 05-2370-2(M24) 05-2370-3(5a)  EP_SP_66_12-WP0 05-2380 05-2410 05-2420 05-2420 05-2430 05-2440 05-2450 05-3190 05-3200 05-3840 (M22)  EP_SP_66_12-WP0 05-2460 05-2470  EP_SP_66_12-WP0 0 A 1070 A 1080  EP_SP_66_12-WP6	Design of the Air Quality Monitoring Stations (2.9.01)  6A-M42.05.01.10 AIP Roadsand Utilities (2.10)  6A-M42.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)  Rainwater harvesting System (2.10.04.04)  Water Tanks (2.10.04.05)  External FS Systems (2.10.04.06)  Building Services system for seawater intake and brine discharge (2.10.04.09)  Chemical scrubber system for odour control (2.10.04.10)  6A-M42.05.01.10.6 Design of telecommunication and other utilities (2.10.06)  Power Distribution System concept / schematics (2.10.06.01)  Site ELV Network System - Communications System concept / schematics (2.10.06.04)  Site ELV Network System - Navigation aids concept / schematics (2.10.06.06)  Microwave transmission of FS direct link (2.10.06.07)  Fuel Handling System concept / schematics (2.10.06.08)  Computerised Maintenance Management System (IDMS)  Automatic Traffic Control System (ATCS) (2.10.06.12)  6A-M42.05.01.10.7 Utility ducts/Pipebridges design (2.10.25)  Design of Pipe / Utilities Trenches concept (2.10.06.09.01)  Sitewide Utilities Trenches Design (2.10.06.09.02)  P6A-M42.05.01.10.7.2 Structure Plan for Pipe Bridge Network  Pipebridge B  Pipebridge C	120 838 683 135 135 135 135 90 90 838 135 135 135 135 105 105 105 105 105 105 105 135 135 135	120 1051 709 225 135 709 506 218 1051 289 583 583 135 1006 628 796 761 90 366 366 366 56 56	0% 83.89% 80.23% 80.74% 0% 0% 33.33% 5% 83.89% 0% 0% 28.57% 28.57% 0% 45.45% 14.29% 77.78% 77.78%	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5	120 Start On or After 135 26 Start On or After 135 Start On or After 136 Start On or After 137 Start On or After 138 Start On or After 139 Start On or After 130 Start On or After 131 Start On or After 132 Start On or After 133 Start On or After 134 Start On or After 145 Start On or After 157 Start On or After 158 Start On or After 159 Start On or After 159 Start On or After 150 Start On or After	31-May-21*  27-Nov-18 A 04-Nov-19 A 13-Nov-20 A 31-May-21* 04-Nov-19 A 11-Mar-20 A 19-Jan-21 A 28-Dec-20 A 09-Mar-20 A 31-May-21* 27-Nov-18 A 24-Jan-20 A 10-Jun-19 A 15-Jul-19 A 31-May-21 28-Aug-20 A 28-Aug-20 A 28-Aug-20 A 05-May-21 A 05-May-21 A	27-Sep-21  12-Oct-21  12-Oct-21  25-Jun-21  12-Oct-21  28-Aug-21  13-Aug-21  28-Aug-21  28-Aug-21  28-Aug-21  28-Aug-21  28-Aug-21  29-Jun-21  29-Jun-21  29-Jun-21	26-Nov-22 2 31-May-21 1 31-May-21 2 30-Nov-21 1 30-Nov-21 1 11-Jun-21 0 30-Jul-21 2 06-Jul-21 1 106-Jul-21 1 106-Jul-21 1 106-Jul-21 1 106-Jul-21 1 106-Jul-21 1 11-May-22 1 11-May-22 1 11-May-22 1 11-May-22 1 11-May-22 1 06-Aug-21 0 05-Sep-21 0 06-Aug-21 0	25-Mar-23 12-Jan-23 13-Apr-22 25-Jun-21 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 11-Aug-23 15-Jan-22 22-Sep-21 11-Aug-22 111-Aug-22 111-Aug-22 111-Aug-22 111-Aug-22 111-Aug-22 111-Aug-22 111-Aug-22 111-Aug-22 111-Aug-22 111-Aug-22 111-Aug-22 111-Aug-22 111-Aug-22 111-Aug-22 111-Aug-22	544  457  183  0  183  183  183  111  61  457  36  36  36  36  457  155  155  25  348  348  348  97  97  Extracted Activity  67  Extracted Activity	31-May-21*  31-May-21*  31-May-21	Rainwater harvesting System (2.10.04.04)  29-Jul-21, Buil  13  13  29-Jun-21, Pipebridge B, Pipebridge B  29-Jun-21, Pipebridge C, Pipebridge C
05-2250  EP_SP_66_12-WP6  EP_SP_66_12-WP0 05-2350 05-2370 05-2370-2(M24) 05-2370-3(5a)  EP_SP_66_12-WP0 05-2380 05-2410 05-2420 05-2420 05-2430 05-2440 05-2450 05-3190 05-3200 05-3840 (M22)  EP_SP_66_12-WP0 05-2460 05-2470  EP_SP_66_12-WP0 05-2470  A 1080  EP_SP_66_12-WP6  EP_SP_66_12-WP6  EP_SP_66_12-WP6	Design of the Air Quality Monitoring Stations (2.9.01)  6A-M42.05.01.10 AIP Roadsand Utilities (2.10)  6A-M42.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)  Rainwater harvesting System (2.10.04.04)  Water Tanks (2.10.04.05)  External FS Systems (2.10.04.06)  Building Services system for seawater intake and brine discharge (2.10.04.09)  Chemical scrubber system for odour control (2.10.04.10)  6A-M42.05.01.10.6 Design of telecommunication and other utilities (2.10.06)  Power Distribution System concept / schematics (2.10.06.01)  Site ELV Network System - Communications System concept / schematics (2.10.06.04)  Site ELV Network System - Navigation aids concept / schematics (2.10.06.05)  Site ELV Network System - Navigation aids concept / schematics (2.10.06.06)  Microwave transmission of FS direct link (2.10.06.07)  Fuel Handling System concept / schematics (2.10.06.08)  Computerised Maintenance Management System (DMS)  Information and Document Management System (IDMS)  Automatic Traffic Control System (ATCS) (2.10.06.09.01)  Sitewide Utilities Trenches concept (2.10.06.09.02)  P6A-M42.05.01.10.7.2 Structure Plan for Pipe Bridge Network  Pipebridge B  Pipebridge C  SA-M42.05.01.11 AIP Architectural, Finishes and Landscaping Works (2.11)	120 838 683 135 135 135 135 90 90 838 135 135 135 135 105 105 105 105 105 105 105 135 135 135	120 1051 709 225 135 709 506 218 1051 289 583 583 135 1006 628 796 761 90 366 366 366 56 56 56	0% 83.89% 80.23% 80.74% 0% 0% 33.33% 0% 0% 0% 28.57% 0% 45.45% 14.29% 77.78% 77.78% 63.95%	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5	120 Start On or After  135 26 Start On or After  135 Start On or After  135 60 86 135 Start On or After  90 135 Start On or After  90 90 90 90 90 90 90 90 30 30 30 30 30 30 137	31-May-21* 27-Nov-18 A 04-Nov-19 A 13-Nov-20 A 31-May-21* 04-Nov-19 A 11-Mar-20 A 19-Jan-21 A 27-Nov-18 A 28-Dec-20 A 09-Mar-20 A 31-May-21* 27-Nov-18 A 24-Jan-20 A 10-Jun-19 A 15-Jul-19 A 31-May-21 28-Aug-20 A 28-Aug-20 A 05-May-21 A 05-May-21 A 05-May-21 A 30-Mar-20 A	27-Sep-21 12-Oct-21 13-Aug-21 28-Aug-21 28-Aug-21 28-Aug-21 29-Jun-21 29-Jun-21 29-Jun-21 14-Oct-21	26-Nov-22 2 31-May-21 1 31-May-21 1 31-May-21 1 30-Nov-21 1 30-Nov-21 1 11-Jun-21 0 30-Jul-21 1 06-Jul-21 0 06-Jul-21 0 06-Jul-21 0 05-Nov-21 1 125-Jun-21 2 06-Aug-21 1 14-May-22 1 14-May-22 1 06-Aug-21 0 05-Sep-21 0 06-Aug-21 0 06-Aug-21 0 31-May-21 1	25-Mar-23 12-Jan-23 13-Apr-22 25-Jun-21 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 11-Aug-23 15-Jan-22 22-Sep-21 11-Aug-22 111-Aug-22 111-Aug-22 111-Aug-22 111-Aug-22 111-Aug-22 111-Aug-22 111-Aug-22 111-Aug-22 111-Aug-22 111-Aug-22 111-Aug-22 111-Aug-22 111-Aug-22 111-Aug-22 111-Aug-22	544  457  183  0  183  183  11  61  457  36  36  36  36  457  155  155  25  348  348  348  97  97  Extracted Activity  67  Extracted Activity  185	31-May-21*  31-May-21*  31-May-21	Rainwater harvesting System (2.10.04.04),  29-Jul-21, Buile  13-  13-  29-Jun-21, Pipebridge B, Pipebridge B, 29-Jun-21, Pipebridge C, Pipebridge C,
05-2250  EP_SP_66_12-WP6  EP_SP_66_12-WP0 05-2350 05-2370 05-2370-2(M24) 05-2370-3(5a)  EP_SP_66_12-WP0 05-2380 05-2410 05-2420 05-2420 05-2440 05-2450 05-3190 05-3200 05-3840 (M22)  EP_SP_66_12-WP0 05-2470  EP_SP_66_12-WF0 05-2470  EP_SP_66_12-WF0 05-2510	Design of the Air Quality Monitoring Stations (2.9.01)  6A-M42.05.01.10 AIP Roadsand Utilities (2.10)  6A-M42.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)  Rainwater harvesting System (2.10.04.04)  Water Tanks (2.10.04.05)  External FS Systems (2.10.04.06)  Building Services system for seawater intake and brine discharge (2.10.04.09)  Chemical scrubber system for odour control (2.10.04.10)  6A-M42.05.01.10.6 Design of telecommunication and other utilities (2.10.06)  Power Distribution System concept / schematics (2.10.06.01)  Site ELV Network System - Communications System concept / schematics (2.10.06.04)  Site ELV Network System - Navigation aids concept / schematics (2.10.06.05)  Site ELV Network System - Navigation aids concept / schematics (2.10.06.06)  Microwave transmission of FS direct link (2.10.06.07)  Fuel Handling System concept / schematics (2.10.06.08)  Computerised Maintenance Management System (CMMS)  Information and Document Management System (IDMS)  Automatic Traffic Control System (ATCS) (2.10.06.12)  6A-M42.05.01.10.7 Utility ducts/Pipebridges design (2.10.25)  Design of Pipe / Utilities Trenches concept (2.10.06.09.01)  Sitewide Utilities Trenches Design (2.10.06.09.02)  P6A-M42.05.01.10.7.2 Structure Plan for Pipe Bridge Network  Pipebridge B  Pipebridge C  SA-M42.05.01.11 AIP Architectural, Finishes and Landscaping Works (2.11)  External and internal finishes design for Incineration Plant Buildings (6 Packages)	120 838 683 135 135 135 90 90 90 838 135 135 135 135 135 105 105 105 105 105 105 105 10	120 1051 709 225 135 709 506 218 1051 289 583 583 135 1006 628 796 761 90 366 366 366 56 56 56 564 564	0% 83.89% 80.23% 80.74% 0% 0% 33.33% 5% 60.74% 83.89% 0% 0% 0% 0% 45.45% 14.29% 17.78% 77.78% 63.95% 60.74%	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5	120 Start On or After  135 26 Start On or After  135 Start On or After  135 60 86 135 Start On or After  90 135 Start On or After  90 90 90 90 90 90 90 90 30 30 30 30 30 30 137	31-May-21* 27-Nov-18 A 04-Nov-19 A 13-Nov-20 A 31-May-21* 04-Nov-19 A 11-Mar-20 A 19-Jan-21 A 27-Nov-18 A 28-Dec-20 A 09-Mar-20 A 31-May-21* 27-Nov-18 A 24-Jan-20 A 10-Jun-19 A 15-Jul-19 A 31-May-21 28-Aug-20 A 28-Aug-20 A 05-May-21 A 05-May-21 A 05-May-21 A 30-Mar-20 A 30-Mar-20 A	27-Sep-21 12-Oct-21 13-Aug-21 28-Aug-21 28-Aug-21 28-Aug-21 29-Jun-21 29-Jun-21 14-Oct-21 14-Oct-21	26-Nov-22 2 31-May-21 1 31-May-21 1 31-May-21 1 31-May-21 1 30-Nov-21 1 30-Nov-21 1 11-Jun-21 0 30-Jul-21 1 06-Jul-21 0 06-Jul-21 0 06-Jul-21 0 05-Sep-21 1 14-May-22 1 14-May-22 1 06-Aug-21 0 05-Sep-21 0 06-Aug-21 0 31-May-21 1 31-Jul-21 2 26-Sep-21 0	25-Mar-23 12-Jan-23 13-Apr-22 25-Jun-21 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-21 13-Apr-22 13-Apr-21 13-Apr-22 13-Apr-22 11-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 11-Aug-22 104-Oct-21 04-Sep-21 17-Apr-22 26-Mar-22 09-Feb-22	544  457  183  0  183  183  111  61  457  36  36  36  36  36  457  155  155  25  348  348  348  97  97  Extracted Activity  67  Extracted Activity  185  163	31-May-21*  31-May-21*  31-May-21	Rainwater harvesting System (2.10.04.04),  29-Jul-21, Buil  13-  13-  29-Jun-21, Pipebridge B, Pipebridge B,  29-Jun-21, Pipebridge C, Pipebridge C,
05-2250  EP_SP_66_12-WP6  EP_SP_66_12-WP0 05-2350 05-2370 05-2370-2(M24) 05-2370-3(5a)  EP_SP_66_12-WP0 05-2420 05-2410 05-2420 05-2440 05-2450 05-3190 05-3200 05-3840 (M22)  EP_SP_66_12-WP0 05-2460 05-2470  EP_SP_66_12-WP0 05-2470  EP_SP_66_12-WP0 05-2510 05-2520	Design of the Air Quality Monitoring Stations (2.9.01)  6A-M42.05.01.10 AIP Roadsand Utilities (2.10)  6A-M42.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)  Rainwater harvesting System (2.10.04.04)  Water Tanks (2.10.04.05)  External FS Systems (2.10.04.06)  Building Services system for seawater intake and brine discharge (2.10.04.09)  Chemical scrubber system for odour control (2.10.04.10)  6A-M42.05.01.10.6 Design of telecommunication and other utilities (2.10.06)  Power Distribution System concept / schematics (2.10.06.01)  Site ELV Network System - Communications System concept / schematics (2.10.06.04)  Site ELV Network System - Navigation aids concept / schematics (2.10.06.05)  Site ELV Network System - Navigation aids concept / schematics (2.10.06.06)  Microwave transmission of FS direct link (2.10.06.07)  Fuel Handling System concept / schematics (2.10.06.08)  Computerised Maintenance Management System (CMMS)  Information and Document Management System (IDMS)  Automatic Traffic Control System (ATCS) (2.10.06.02)  6A-M42.05.01.10.7 Utility ducts/Pipebridges design (2.10.25)  Design of Pipe / Utilities Trenches Design (2.10.06.09.02)  P6A-M42.05.01.10.7.2 Structure Plan for Pipe Bridge Network  Pipebridge B  Pipebridge B  Pipebridge C  A-M42.05.01.11 AIP Architectural, Finishes and Landscaping Works (2.11)  External and internal finishes design for Incineration Plant Building (6 Packages)  External and internal finishes design for Incineration Plant Building (6 Packages)	120 838 683 135 135 135 135 90 90 90 838 135 135 135 135 135 105 105 105 105 105 135 135 135 135 137 137	120 1051 709 225 135 709 506 218 1051 289 583 135 1006 628 796 761 90 366 366 366 56 56 564 564 529	0% 83.89% 80.23% 80.74% 0% 0% 33.33% 5% 63.89% 0% 0% 0% 28.57% 28.57% 0% 45.45% 14.29% 17.78% 77.78% 63.95% 60.74% 0%	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5	120 Start On or After  135 26 Start On or After  135 Start On or After  90 135 Start On or After  90 135 Start On or After  90 90 90 90 90 90 90 90 90 90 90 90 90	31-May-21* 27-Nov-18 A 04-Nov-19 A 13-Nov-20 A 31-May-21* 04-Nov-19 A 11-Mar-20 A 19-Jan-21 A 27-Nov-18 A 28-Dec-20 A 09-Mar-20 A 31-May-21* 27-Nov-18 A 24-Jan-20 A 10-Jun-19 A 15-Jul-19 A 31-May-21 28-Aug-20 A 28-Aug-20 A 05-May-21 A 05-May-21 A 30-Mar-20 A 30-Mar-20 A 30-Mar-20 A	27-Sep-21  12-Oct-21  13-Aug-21  28-Aug-21  28-Aug-21  28-Aug-21  29-Jun-21  29-Jun-21  14-Oct-21  14-Oct-21  14-Oct-21	26-Nov-22 2 31-May-21 1 31-May-21 2 30-Nov-21 1 30-Nov-21 1 11-Jun-21 0 30-Jul-21 2 06-Jul-21 1 08-Aug-21 1 14-May-22 1 14-May-22 1 14-May-22 1 06-Aug-21 0 05-Sep-21 0 06-Aug-21 0 31-Jul-21 1 31-Jul-21 1	25-Mar-23 12-Jan-23 13-Apr-22 25-Jun-21 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-21 13-Apr-22 13-Apr-21 13-Apr-22 117-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 11-Jan-23 15-Jan-22 15-Jan-22 15-Jan-22 11-Aug-22 11-Au	544 457 183 0 183 183 111 61 457 36 36 36 36 36 457 155 155 25 348 348 348 348 97 97 Extracted Activity 67 Extracted Activity 185 163 118 61	31-May-21*  31-May-21*  31-May-21*	Rainwater harvesting System (2.10.04.04),  29-Jul-21, Buil  13-  13-  29-Jun-21, Pipebridge B, Pipebridge B,  29-Jun-21, Pipebridge C, Pipebridge C,
05-2250  EP_SP_66_12-WP6  EP_SP_66_12-WP0 05-2350 05-2370 05-2370-2(M24) 05-2370-3(5a)  EP_SP_66_12-WP0 05-2420 05-2410 05-2420 05-2420 05-2450 05-3190 05-3200 05-3840 (M22)  EP_SP_66_12-WP0 05-2460 05-2470  EP_SP_66_12-WP0 05-2470  EP_SP_66_12-WP0 05-2470  EP_SP_66_12-WP0 05-2470  A1080  EP_SP_66_12-WP0 05-2510 05-2520 05-2530	Design of the Air Quality Monitoring Stations (2.9.01)  6A-M42.05.01.10 AIP Roadsand Utilities (2.10)  6A-M42.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)  Rainwater harvesting System (2.10.04.04)  Water Tanks (2.10.04.05)  External FS Systems (2.10.04.06)  Building Services system for seawater intake and brine discharge (2.10.04.09)  Chemical scrubber system for odour control (2.10.04.10)  6A-M42.05.01.10.6 Design of telecommunication and other utilities (2.10.06)  Power Distribution System concept / schematics (2.10.06.01)  Site ELV Network System - Communications System concept / schematics (2.10.06.04)  Site ELV Network System - Security Systems concept / schematics (2.10.06.05)  Site ELV Network System - Navigation aids concept / schematics (2.10.06.06)  Microwave transmission of FS direct link (2.10.06.07)  Fuel Handling System concept / schematics (2.10.06.08)  Computerised Maintenance Management System (CMMS)  Information and Document Management System (IDMS)  Automatic Traffic Control System (ATCS) (2.10.06.02)  6A-M42.05.01.10.7 Utility ducts/Pipebridges design (2.10.25)  Design of Pipe / Utilities Trenches Design (2.10.06.09.02)  P6A-M42.05.01.10.7.2 Structure Plan for Pipe Bridge Network  Pipebridge B  Pipebridge B  Pipebridge C  A-M42.05.01.11 AIP Architectural, Finishes and Landscaping Works (2.11)  6A-M42.05.01.11.1 External and internal finishes design for Incineration Plant Building (6 Packages)  External and internal finishes design for CC Equipment Yard  External and internal finishes design for Turbine Hall Building (3 Packages)	120 838 683 135 135 135 135 90 90 90 838 135 135 135 135 135 105 105 105 105 105 105 105 135 135 135 135 137 137 137	120 1051 709 225 135 709 506 218 1051 289 583 583 135 1006 628 796 761 90 366 366 366 56 56 564 564 529 137 529	0% 83.89% 80.23% 80.74% 0% 0% 33.33% 5% 63.89% 0% 0% 0% 28.57% 28.57% 0% 45.45% 14.29% 77.78% 77.78% 63.95% 60.74% 0% 0%	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5	120 Start On or After  135 26 Start On or After  135 Start On or After  90 135 Start On or After  90 90 90 90 90 90 90 90 90 90 90 90 90	31-May-21* 27-Nov-18 A 04-Nov-19 A 13-Nov-20 A 31-May-21* 04-Nov-19 A 11-Mar-20 A 19-Jan-21 A 27-Nov-18 A 28-Dec-20 A 09-Mar-20 A 31-May-21* 27-Nov-18 A 24-Jan-20 A 10-Jun-19 A 15-Jul-19 A 31-May-21 28-Aug-20 A 28-Aug-20 A 05-May-21 A 05-May-21 A 30-Mar-20 A 30-Mar-20 A 30-Mar-20 A	27-Sep-21  12-Oct-21  13-Aug-21  28-Aug-21  28-Aug-21  28-Aug-21  28-Aug-21  29-Jun-21  29-Jun-21  14-Oct-21  14-Oct-21  14-Oct-21  14-Oct-21	26-Nov-22 2 31-May-21 1 31-May-21 2 30-Nov-21 1 30-Nov-21 1 30-Nov-21 1 11-Jun-21 2 06-Jun-21 1 06-Jul-21 1 02-Nov-21 1 02-Nov-21 1 02-Nov-21 1 25-Jun-21 2 06-Aug-21 1 14-May-22 1 14-May-22 1 06-Aug-21 0 05-Sep-21 0 06-Aug-21 0 31-Jul-21 2 26-Sep-21 0 06-Aug-21 1	25-Mar-23 12-Jan-23 13-Apr-22 25-Jun-21 13-Apr-22 25-Jun-21 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-21 13-Apr-21 13-Apr-22 13-Apr-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 11-Jan-23 15-Jan-22 22-Sep-21 11-Aug-22 11-Aug-22 11-Aug-22 11-Aug-22 04-Oct-21 04-Sep-21 17-Apr-22 26-Mar-22 09-Feb-22 14-Dec-21 20-Dec-21	544 457 183 0 183 183 111 61 457 36 36 36 36 36 6 457 155 155 25 348 348 348 97 97 Extracted Activity 67 Extracted Activity 185 163 118 61 67	31-May-21*  31-May-21*  31-May-21  31-May-21	Rainwater harvesting System (2.10.04.04),  29-Jul-21, Build  13-  13-  29-Jun-21, Pipebridge B, Pipebridge B,  29-Jun-21, Pipebridge C, Pipebridge C,
05-2250  EP_SP_66_12-WP6 EP_SP_66_12-WP6 05-2350 05-2370 05-2370-2(M24) 05-2370-3(5a)  EP_SP_66_12-WP6 05-2420 05-2410 05-2420 05-2430 05-2440 05-2450 05-3190 05-3840 (M22)  EP_SP_66_12-WP6 05-2460 05-2470 A1080  EP_SP_66_12-WP6 05-2510 05-2520 05-2530 05-2530	Design of the Air Quality Monibring Stations (2.9.01)  6A-M42.05.01.10 AIP Roads and Utilities (2.10)  6A-M42.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)  Rainwater harvesting System (2.10.04.04)  Water Tanks (2.10.04.05)  External FS Systems (2.10.04.06)  Building Services system for seawater intake and brine discharge (2.10.04.09)  Chemical scrubber system for odour control (2.10.04.10)  6A-M42.05.01.10.6 Design of telecommunication and other utilities (2.10.06)  Power Distribution System concept / schematics (2.10.06.01)  Site ELV Network System - Communications System concept / schematics (2.10.06.04)  Site ELV Network System - Security Systems concept / schematics (2.10.06.05)  Site ELV Network System - Navigation aids concept / schematics (2.10.06.06)  Microwave transmission of FS direct link (2.10.06.07)  Fuel Handling System concept / schematics (2.10.06.08)  Computerised Maintenance Management System (CMMS)  Information and Document Management System (IDMS)  Automatic Traffic Control System (ATCS) (2.10.06.12)  6A-M42.05.01.10.7 Utility ducts/Pipebridges design (2.10.25)  Design of Pipe / Utilities Trenches concept (2.10.06.09.02)  P6A-M42.05.01.11 AIP Architectural, Finishes and Landscaping Works (2.11)  6A-M42.05.01.11.1 External and internal finishes design for Incineration Plant Buildings (2.11  External and internal finishes design for Turbine Hall Building (3 Packages)  External and internal finishes design for Turbine Hall Building (3 Packages)	120 838 683 135 135 135 135 90 90 838 135 135 135 135 135 135 135 135 135 135	120 1051 709 225 135 709 506 218 1051 289 583 135 1006 628 796 761 90 366 366 366 56 564 564 529 137 529 529	0% 83.89% 80.23% 80.74% 0% 0% 33.33% 5% 60.74% 0% 28.57% 28.57% 14.29% 14.29% 77.78% 63.95% 60.74% 0% 0%	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5	120 Start On or After 135 26 Start On or After 135 Start On or After 136 Start On or After 137 Start On or After 138 Start On or After 139 Start On or After 130 Start On or After 137 Start On or After	31-May-21*  27-Nov-18 A  04-Nov-19 A  13-Nov-20 A  31-May-21*  04-Nov-19 A  11-Mar-20 A  19-Jan-21 A  27-Nov-18 A  28-Dec-20 A  09-Mar-20 A  31-May-21*  27-Nov-18 A  24-Jan-20 A  10-Jun-19 A  15-Jul-19 A  31-May-21  28-Aug-20 A  28-Aug-20 A  28-Aug-20 A  05-May-21 A  05-May-21 A  30-Mar-20 A  30-Mar-20 A  31-May-20 A	27-Sep-21  12-Oct-21  13-Aug-21  28-Aug-21  28-Aug-21  28-Aug-21  28-Aug-21  29-Jun-21  29-Jun-21  14-Oct-21  14-Oct-21  14-Oct-21  14-Oct-21  14-Oct-21	26-Nov-22 2 31-May-21 1 31-May-21 2 30-Nov-21 1 30-Nov-21 1 30-Nov-21 1 11-Jun-21 2 06-Jun-21 1 06-Jul-21 1 05-Nov-21 1 25-Jun-21 2 06-Aug-21 1 14-May-22 1 14-May-22 1 14-May-22 1 14-May-21 1 131-Jul-21 2 26-Sep-21 0 31-Jul-21 1 06-Aug-21 2	25-Mar-23 12-Jan-23 13-Apr-22 25-Jun-21 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-21 12-Jan-23 17-Nov-21 17-Nov-21 17-Nov-21 17-Nov-21 11-Jan-23 15-Jan-22 15-Jan-22 15-Jan-22 11-Aug-22	544  457  183  0  183  183  11  61  457  36  36  36  36  36  457  155  155  25  348  348  348  97  97  Extracted Activity  185  163  118  61  67  159	31-May-21*  31-May-21*  31-May-21  31-May-21	Rainwater harvesting System (2.10.04.04),  29-Jul-21, Build  13-  13-  29-Jun-21, Pipebridge B, Pipebridge B, 29-Jun-21, Pipebridge C, Pipebridge C,
05-2250  EP_SP_66_12-WP6 EP_SP_66_12-WP0 05-2350 05-2370 05-2370-2(M24) 05-2370-3(5a)  EP_SP_66_12-WP0 05-2420 05-2440 05-2440 05-2440 05-2450 05-3190 05-3840 (M22) EP_SP_66_12-WP0 05-2460 05-2470 A1080 EP_SP_66_12-WP0 05-2510 05-2520 05-2530 05-2540 05-2550	Design of the Air Quality Monibring Stations (2.9.01)  6A-M42.05.01.10 AIP Roads and Utilities (2.10)  6A-M42.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)  Rainwater harvesting System (2.10.04.04)  Water Tanks (2.10.04.05)  External FS Systems (2.10.04.06)  Building Services system for seawater intake and brine discharge (2.10.04.09)  Chemical scrubber system for odour control (2.10.04.10)  6A-M42.05.01.10.6 Design of telecommunication and other utilities (2.10.06)  Power Distribution System concept / schematics (2.10.06.01)  Site ELV Network System - Communications System concept / schematics (2.10.06.04)  Site ELV Network System - Security Systems concept / schematics (2.10.06.05)  Site ELV Network System - Navigation aids concept / schematics (2.10.06.06)  Microwave transmission of FS direct link (2.10.06.07)  Fuel Handling System concept / schematics (2.10.06.08)  Computerised Maintenance Management System (CMMS)  Information and Document Management System (IDMS)  Automatic Traffic Control System (ATCS) (2.10.06.12)  6A-M42.05.01.10.7 Utility ducts/Pipebridges design (2.10.25)  Design of Pipe / Utilities Trenches concept (2.10.06.09.01)  Sitewide Utilities Trenches Design (2.10.06.09.02)  P6A-M42.05.01.11 AIP Architectural, Finishes and Landscaping Works (2.11)  6A-M42.05.01.11 Lit External and internal finishes design for Incineration Plant Building (6 Packages)  External and internal finishes design for ACC Equipment Yard  External and internal finishes design for Furbine Hall Building (3 Packages)  External and internal finishes design for Furbine Pall Building (3 Packages)  External and internal finishes design for Faception Pavillon (5 Packages)	120 838 683 135 135 135 135 90 90 838 135 135 135 135 135 135 135 135 135 135	120 1051 709 225 135 709 506 218 1051 289 583 135 1006 628 796 761 90 366 366 366 56 564 564 529 137 529 529	0% 83.89% 80.23% 80.74% 0% 0% 33.33% 5% 83.89% 83.89% 0% 0% 0% 45.45% 14.29% 14.29% 77.78% 77.78% 77.78% 63.95% 60.74% 0% 0% 0% 0%	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5	120 Start On or After  135 26 Start On or After  135 Start On or After  136 Start On or After  90 137 Start On or After  90 90 90 90 90 90 90 30 30 30 30 30 317 137 137 Start On or After	31-May-21*  27-Nov-18 A  04-Nov-19 A  13-Nov-20 A  31-May-21*  04-Nov-19 A  11-Mar-20 A  19-Jan-21 A  27-Nov-18 A  28-Dec-20 A  09-Mar-20 A  31-May-21*  27-Nov-18 A  24-Jan-20 A  10-Jun-19 A  15-Jul-19 A  31-May-21  28-Aug-20 A  28-Aug-20 A  28-Aug-20 A  30-Mar-20 A  30-Mar-20 A  30-Mar-20 A  31-May-21 A  30-Mar-20 A  30-Mar-20 A	27-Sep-21  12-Oct-21  13-Aug-21  28-Aug-21  28-Aug-21  28-Aug-21  29-Jun-21  29-Jun-21  14-Oct-21  14-Oct-21  14-Oct-21  14-Oct-21  14-Oct-21  14-Oct-21	26-Nov-22 2 31-May-21 1 31-May-21 2 30-Nov-21 1 30-Nov-21 1 30-Nov-21 1 11-Jun-21 2 06-Jun-21 1 06-Jul-21 1 02-Nov-21 1 25-Jun-21 2 06-Aug-21 1 14-May-22 1 14-May-22 1 14-May-22 1 14-May-21 1 06-Aug-21 0 05-Sep-21 0 06-Aug-21 0 06-Aug-21 1 31-Jul-21 1 06-Aug-21 2 06-Nov-21 2	25-Mar-23 12-Jan-23 13-Apr-22 25-Jun-21 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-23 112-Jan-23 117-Nov-21 117-Apr-22	544  457  183  0  183  183  111  61  457  36  36  36  36  36  457  155  155  25  348  348  348  348  97  97  Extracted Activity  185  163  118  61  67  159  163	31-May-21*  31-May-21*  31-May-21*  31-May-21	Rainwater harvesting System (2.10.04.04),  29-Jul-21, Build  13-  13-  29-Jun-21, Pipebridge B, Pipebridge B,  29-Jun-21, Pipebridge C, Pipebridge C,
05-2250  EP_SP_66_12-WP6 EP_SP_66_12-WP6 05-2350 05-2370 05-2370-2(M24) 05-2370-3(5a)  EP_SP_66_12-WP6 05-2420 05-2410 05-2420 05-2430 05-2440 05-2450 05-3190 05-3840 (M22)  EP_SP_66_12-WP6 05-2460 05-2470 A1080  EP_SP_66_12-WP6 05-2510 05-2520 05-2530 05-2540 05-2550	Design of the Air Quality Monibring Stations (2.9.01)  6A-M42.05.01.10 AIP Roads and Utilities (2.10)  6A-M42.05.01.10.4 Water supply system design on the Artificial Island (2.10.04)  Rainwater harvesting System (2.10.04.04)  Water Tanks (2.10.04.05)  External FS Systems (2.10.04.06)  Building Services system for seawater intake and brine discharge (2.10.04.09)  Chemical scrubber system for odour control (2.10.04.10)  6A-M42.05.01.10.6 Design of telecommunication and other utilities (2.10.06)  Power Distribution System concept / schematics (2.10.06.01)  Site ELV Network System - Communications System concept / schematics (2.10.06.04)  Site ELV Network System - Security Systems concept / schematics (2.10.06.05)  Site ELV Network System - Navigation aids concept / schematics (2.10.06.06)  Microwave transmission of FS direct link (2.10.06.07)  Fuel Handling System concept / schematics (2.10.06.08)  Computerised Maintenance Management System (CMMS)  Information and Document Management System (IDMS)  Automatic Traffic Control System (ATCS) (2.10.06.12)  6A-M42.05.01.10.7 Utility ducts/Pipebridges design (2.10.25)  Design of Pipe / Utilities Trenches concept (2.10.06.09.02)  P6A-M42.05.01.11 AIP Architectural, Finishes and Landscaping Works (2.11)  6A-M42.05.01.11.1 External and internal finishes design for Incineration Plant Buildings (2.11  External and internal finishes design for Turbine Hall Building (3 Packages)  External and internal finishes design for Turbine Hall Building (3 Packages)	120 838 683 135 135 135 135 90 90 838 135 135 135 135 135 135 135 135 135 135	120 1051 709 225 135 709 506 218 1051 289 583 135 1006 628 796 761 90 366 366 366 56 564 564 529 137 529 529	0% 83.89% 80.23% 80.74% 0% 0% 33.33% 5% 60.74% 0% 28.57% 28.57% 14.29% 14.29% 77.78% 63.95% 60.74% 0% 0%	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5	120 Start On or After  135 26 Start On or After  135 Start On or After  136 Start On or After  90 137 Start On or After  90 90 90 90 90 90 30 30 30 30 30 30 317 137 137 Start On or After	31-May-21* 27-Nov-18 A 04-Nov-19 A 13-Nov-20 A 31-May-21* 04-Nov-19 A 11-Mar-20 A 19-Jan-21 A 28-Dec-20 A 09-Mar-20 A 31-May-21* 27-Nov-18 A 24-Jan-20 A 10-Jun-19 A 15-Jul-19 A 31-May-21 28-Aug-20 A 28-Aug-20 A 28-Aug-20 A 05-May-21 A 05-May-21 A 05-May-21 A 05-May-21 A 30-Mar-20 A 31-May-21 A 30-Mar-20 A 31-May-21 A 30-Mar-20 A 31-May-20 A 31-May-20 A 31-May-20 A 31-May-20 A	27-Sep-21 12-Oct-21 13-Aug-21 28-Aug-21 28-Aug-21 28-Aug-21 28-Aug-21 14-Oct-21	26-Nov-22 2 31-May-21 1 31-May-21 2 30-Nov-21 1 30-Nov-21 1 30-Nov-21 1 11-Jun-21 2 06-Jun-21 1 06-Jul-21 1 05-Nov-21 1 25-Jun-21 2 06-Aug-21 1 14-May-22 1 14-May-22 1 14-May-22 1 14-May-21 1 131-Jul-21 2 26-Sep-21 0 31-Jul-21 1 06-Aug-21 2	25-Mar-23 12-Jan-23 13-Apr-22 25-Jun-21 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-22 13-Apr-23 112-Jan-23 117-Nov-21	544  457  183  0  183  183  11  61  457  36  36  36  36  36  457  155  155  25  348  348  348  97  97  Extracted Activity  185  163  118  61  67  159	31-May-21*  31-May-21*  31-May-21*  31-May-21	Rainwater harvesting System (2.10.04.04),  29-Jul-21, Build  13-  13-  13-  29-Jun-21, Pipebridge B, Pipebridge B,  29-Jun-21, Pipebridge C, Pipebridge C,

3-Month Rolling Programme (May 2021)

Remaining Work Actual Milestone Actual Work Critical Milestone Critical Remaining Work ♦ Milestone

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	Contract No. EP/SP/66/12	■ 環境保護署
mitogratou Trabto Mana	gement Facilities, Phase 1	Environmental Protection Departme

KEPPEL SEGMERS - ZMES	Activity Name	Planned	At Completion	Duration %	Activity %	Remaining Primary Constraint	Current Start	Current Finish	Late Start Late Finish	Total Float M42 Remarks	Tagornom r aom	2021	
		Duration	Duration	Complete	Complete	Duration					May	Jun	Jul Aug
- ED SD 66 12-W	WP6A-M42.05.01.11.3 External and internal finishes design for the Wastewater Treatment Plant (2	135	135	0%		135	31-May-21	12-Oct-21	21-Sep-21 02-Feb-22	113	42	43	44 45
05-2580	External and internal finishes design for the Wastewater Treatment Plant (3 Packages)	135	135	0%	0%	135 Start On or After	<del></del>	12-Oct-21	21-Sep-21 02-Feb-22	113	31-May-21*	<del>-</del>	
	WP6A-M42.05.01.11.4 External and internal finishes design for the Water Treatment Plant Buildin		135	0%	0 / 0	135	31-May-21	12-Oct-21	05-Sep-21 17-Jan-22	97	01 May 21		
05-2590	External and internal finishes design for the Water Treatment Plant Building (3 Packages)	135	135	0%	0%	135 Start On or After		12-Oct-21	05-Sep-21 17-Jan-22	97	31-Mav-21*		
					076				· ·		31-Way-21		
	WP6A-M42.05.01.11.5 External and internal finishes design for the Administration Building (2.11.		534	0%	F0/	135 Start On or After		12-Oct-21	20-Nov-21 03-Apr-22 20-Nov-21 03-Apr-22	173		<del>-</del>	
05-2600	External and internal finishes design for the Administration Building (6 Packages)	135	534	0%	5%		1		· ·	173			
	WP6A-M42.05.01.11.6 External and internal finishes design for the IWMF Substation (2.11.06)		461			34		03-Jul-21	31-May-21 03-Jul-21	0			
05-2610	External and internal finishes design for the IW MF Substation (4 Packages)	135	461	74.81%	5%	34 Start On or After			31-May-21 03-Jul-21	0		E	xternal and internal finishes desi
_EP_SP_66_12-W	NP6A-M42.05.01.11.7 Lands cape masterplan (2.11.07)	348	493	69.83%		105	08-May-20 A	12-Sep-21	20-Oct-21 17-Apr-22	217		!	
05-2620	Water Feature (2.11.07.01)	105	451	0%	5%	105 Start On or After	19-Jun-20 A	12-Sep-21	20-Oct-21 01-Feb-22	142			
05-2630	Planting details	105	105	0%	0%	105 Start On or After	31-May-21*	12-Sep-21	03-Jan-22 17-Apr-22	217	31-May-21*		
05-2920 1(M34)	Turbine Hall Building (2.11.07.04)	105	493	0%	5%	105	08-May-20 A	12-Sep-21	03-Jan-22 17-Apr-22	217			
05-2920 2(M34)	Reception Pavilion (2.11.07.06)	105	493	0%	5%	105	08-May-20 A	12-Sep-21	03-Jan-22 17-Apr-22	217			
05-2920 3(M34)		105	493	0%	5%	105	08-May-20 A		03-Jan-22 17-Apr-22	217		<u></u>	
05-2920 4(M34)		105	493	0%	5%	105		<u> </u>	03-Jan-22 17-Apr-22	217			
` /	,						08-May-20 A	-	· ·				
05-2920_5(M34)	, , ,	105	493	0%	5%	105	08-May-20 A		03-Jan-22 17-Apr-22	217		<del>-</del>	
	Process Building (2.11.07.10)	105	493	0%	5%	105	08-May-20 A	12-Sep-21	03-Jan-22 17-Apr-22	217			
EP_SP_66_12-W	WP6A-M42.05.01.11.8 Architectural Detailing - Site Wide (2.11.29)	107	107	0%		107	31-May-21	14-Sep-21	29-Aug-21 13-Dec-21	90		<u> </u>	
05-2640	Architectural Detailing - Site Wide Concept	107	107	0%	0%	107	31-May-21	14-Sep-21	29-Aug-21 13-Dec-21	90	31-May-21		
EP_SP_66_12-W	NP6A-M42.05.01.11.9 External and internal finishes design for Elavated Driveway	137	137	0%		137	31-May-21	14-Oct-21	27-Aug-21 10-Jan-22	88			
05-5410	External and internal finishes design for Elavated Driveway	137	137	0%	0%	137 Start On or After	31-May-21*	14-Oct-21	27-Aug-21 10-Jan-22	88	31-May-21*		
P SP 66 12-WP	P6A-M42.05.01.12 AIP Testing and Commissioning (2.12)	806	874	86.97%		105	23-Apr-19 A	12-Sep-21	29-Jul-21 31-Aug-22	353			
05-2650-1(5)	Factory Acceptance Testing plan (2.12.01.02-06) (7 Packages)	60	799	50%	5%	30	23-Apr-19 A		14-Jan-22 12-Feb-22	228		29-J	un-21, Factory Acceptance Testin
05-2660	Site Acceptance Testing plan (2.12.02)	75	75	0%	0%	75 Start On or After	31-May-21*	13-Aug-21	29-Jul-21 11-Oct-21	59	31-May-21*		1
05-2670	System commissioning plan (2.12.03)	105	105	0%	0%	105 Start On or After	31-May-21*	12-Sep-21	27-Oct-21 08-Feb-22	149	31-May-21*		
							-	_ ·				<u> </u>	
05-2680	Plant commissioning plan (2.12.04)	105	105	0%	0%	105	31-May-21	12-Sep-21	19-May-22 31-Aug-22	353	31-May-21		
	P6A-M42.05.01.13 AIP Transportation Facilities for the Operation (2.13)	136	411			75	29-Jun-20 A						
05-2690	Design of vehicles for MSW and Ash and Residues delivery (2.13.01)	105	411	28.57%	5%	75	29-Jun-20 A	13-Aug-21	23-Nov-22 05-Feb-23	541			1
5-2700	Design of marine vessels for the use of the Employer and visitors (2.13.02)	105	340	28.57%	5%	75	08-Sep-20 A	13-Aug-21	31-Jan-23 15-Apr-23	610			1
P_SP_66_12-WP	P6A-M42.05.01.14 AIP Miscellaneous Works (2.14)	105	434	0%		105	06-Jul-20 A	12-Sep-21	24-Jul-22 05-Nov-22	419			
5-2720	Design of visitors and environmental education facilities (2.14.02)	105	434	0%	5%	105	06-Jul-20 A	12-Sep-21	24-Jul-22 05-Nov-22	419			
P SP 66 12-WP	P6A-M42.05.01.15 AIP Miscellaneous Detailing (2.15)	135	135	0%		135	31-May-21	12-Oct-21	16-Sep-21 05-Sep-22	328			
05-2730	Covered walkway at passenger berth (2.15.02)	105	105	0%	0%	105	31-May-21	12-Sep-21	16-Sep-21 29-Dec-21	108	31-May-21		
05-2740	Gatehouses (2.15.03)	135	135	0%	0%	135 Start On or After	31-May-21*	12-Oct-21	24-Apr-22 05-Sep-22	328	31-May-21*	·i	
05-2750	Weighbridge office (2.15.04)	105	105	0%	0%	105 Start On or After	31-May-21*	12-Sep-21	29-Apr-22 11-Aug-22	333	31-May-21*	<del>-</del>	
					0 /8		-	-			31-Way-21		
	P6A-M42.05.01.16 AIP Auxiliary Plant Systems (2.16)	347	518	61.1%	00/	135	13-May-20 A		23-Aug-21 25-Aug-22	317	04 M 04	<del>-</del>	
05-2770	Vehicle Fuel Filling Station (2.16.02)	135	135	0%	0%	135	31-May-21	12-Oct-21	13-Apr-22 25-Aug-22	317	31-May-21		
05-2780	Stores systems (2.16.03)	135	135	0%	0%	135 Start On or After	31-May-21*	12-Oct-21	06-Jan-22 20-May-22	220	31-May-21*		
05-2780-1(5a)	IWMF Laboratory (2.16.04)	135	518	0%	5%	135	13-May-20 A	12-Oct-21	23-Aug-21 04-Jan-22	84			
05-2780-2(5a)	hoisting systems (2.16.09)	135	315	57.04%	5%	58	16-Sep-20 A	27-Jul-21	13-Oct-21 09-Dec-21	135			27-Jul-21, hois
SP_66_12-WF	VP6A-M42.05.02 DDA Design Package Submissions	1545	1642	55.79%		683	15-Oct-18 A	13-Apr-23	01-Jun-21 13-Dec-24	610		!	
P SP 66 12-WP	P6A-M42.05.02.3 DDA General Building Plan	105	105	0%		105	31-May-21	12-Sep-21	30-Jun-21 12-Sep-21	0			
05-6000(M42)	Process Building & Wastewater Treatment Plant	75	75	0%	0%	75	30-Jun-21	12-Sep-21	30-Jun-21 12-Sep-21	0 New Activity		30-Jun-21	
05-6010(M42)	Turbine Hall	75	75	0%	0%	75	31-May-21	13-Aug-21	30-Jun-21 12-Sep-21	30 New Activity	31-May-21		1
· · · · ·		-				75		-	· · · · · · · · · · · · · · · · · · ·	· ·			
5-6020(M42)	CCCW	75	75	0%	0%	-	31-May-21	13-Aug-21	30-Jun-21 12-Sep-21	30 New Activity	31-May-21		1
5-6030(M42)	Chimney	75	75	0%	0%	75	31-May-21	13-Aug-21	30-Jun-21 12-Sep-21	30 New Activity	31-May-21		1
5-6040(M42)	M T & Water Treatment Plant	75	75	0%	0%	75	30-Jun-21	12-Sep-21		0 New Activity		30-Jun-21	
5-6050(M42)	Reception Pavilion	75	75	0%	0%	75	30-Jun-21	12-Sep-21	30-Jun-21 12-Sep-21	0 New Activity		30-Jun-21	
5-6060(M42)	Administration building	75	75	0%	0%	75	30-Jun-21	12-Sep-21	30-Jun-21 12-Sep-21	0 New Activity		30-Jun-21	
5-6070(M42)	Elevated Driveway	75	75	0%	0%	75	31-May-21	13-Aug-21	30-Jun-21 12-Sep-21	30 New Activity	31-May-21		1
5-6080(M42)	IW MF Substation	75	75	0%	0%	75	31-May-21	13-Aug-21	30-Jun-21 12-Sep-21	30 New Activity	31-May-21		1
		75	75	0%	0%	75	31-May-21	13-Aug-21	· · · · · · · · · · · · · · · · · · ·	30 New Activity	31-May-21		1
5-6090(M42)	Side Wide Arch Defails		947		U /0	165	-	11-Nov-21		•	51-1VIQY-21		
	Side Wide Arch Details	100	947			165	<del></del>	11-Nov-21	23-Jul-21 15-Feb-22	96		· <del> </del>	
P_SP_66_12-WP	P6A-M42.05.02.01 DDA Process and Layout Design (2.1)	408	500				25-Apr-20 A	11-140V-21	20-0012   10-Fe0-22	30			
P_SP_66_12-WP P_SP_66_12-WF	P6A-M42.05.02.01 DDA Process and Layout Design (2.1)  WP6A-M42.05.02.01.1 MSW treatment process design for incineration (2.1.13)	348	568	52.59% 86.67%	Eo/		30. 111 20 4	13 Jun 01		101			ration System (2.1.12.01) (2.0
P_SP_66_12-WP P_SP_66_12-WF 05-5090	P6A-M42.05.02.01 DDA Process and Layout Design (2.1)  WP6A-M42.05.02.01.1 MSW treatment process design for incineration (2.1.13)  Incineration System (2.1.13.01) (2 Packages) (link up with 05-3610)	348 105	319	86.67%	5%	14		13-Jun-21	29-Sep-21 12-Oct-21	121			ration System (2.1.13.01) (2 Pac
P_SP_66_12-WP P_SP_66_12-WF 05-5090 05-5100	P6A-M42.05.02.01 DDA Process and Layout Design (2.1)  WP6A-M42.05.02.01.1 MSW treatment process design for incineration (2.1.13)  Incineration System (2.1.13.01) (2 Packages) (link up with 05-3610)  Heat Recovery Boiler (2.1.13.02) (2 Packages) (link up with 05-3620)	348 105 105	319 417	86.67% 86.67%	5%	14 Start On or After	23-Apr-20 A	13-Jun-21	29-Sep-21 12-Oct-21 29-Sep-21 12-Oct-21	121		13-Jun-21, Heat F	Recovery Boiler (2.1.13.02) (2 Pa
P_SP_66_12-WP P_SP_66_12-WP 05-5090 05-5100	P6A-M42.05.02.01 DDA Process and Layout Design (2.1)  WP6A-M42.05.02.01.1 MSW treatment process design for incineration (2.1.13)  Incineration System (2.1.13.01) (2 Packages) (link up with 05-3610)  Heat Recovery Boiler (2.1.13.02) (2 Packages) (link up with 05-3620)  Ash Cranes (2.1.13.04) (2 Packages)	348 105 105 105	319	86.67%		14 Start On or After	23-Apr-20 A		29-Sep-21 12-Oct-21	121 173		13-Jun-21, Heat F	
P_SP_66_12-WP P_SP_66_12-WF 05-5090 05-5100 05-5110	P6A-M42.05.02.01 DDA Process and Layout Design (2.1)  WP6A-M42.05.02.01.1 MSW treatment process design for incineration (2.1.13)  Incineration System (2.1.13.01) (2 Packages) (link up with 05-3610)  Heat Recovery Boiler (2.1.13.02) (2 Packages) (link up with 05-3620)	348 105 105	319 417	86.67% 86.67%	5%	14 Start On or After	23-Apr-20 A	13-Jun-21	29-Sep-21 12-Oct-21 29-Sep-21 12-Oct-21	121	31-May-21	13-Jun-21, Heat F	Recovery Boiler (2.1.13.02) (2 Pac ranes (2.1.13.04) (2 Packages), a
P_SP_66_12-WP IP_SP_66_12-WF 05-5090 05-5100 05-5110 05-5120	P6A-M42.05.02.01 DDA Process and Layout Design (2.1)  WP6A-M42.05.02.01.1 MSW treatment process design for incineration (2.1.13)  Incineration System (2.1.13.01) (2 Packages) (link up with 05-3610)  Heat Recovery Boiler (2.1.13.02) (2 Packages) (link up with 05-3620)  Ash Cranes (2.1.13.04) (2 Packages)	348 105 105 105	319 417 189	86.67% 86.67% 86.67%	5% 5%	14 Start On or After	23-Apr-20 A 07-Dec-20 A 31-May-21	13-Jun-21 13-Jun-21	29-Sep-21 12-Oct-21 29-Sep-21 12-Oct-21 20-Nov-21 03-Dec-21	121 173	31-May-21	13-Jun-21, Heat F	Recovery Boiler (2.1.13.02) (2 Pac ranes (2.1.13.04) (2 Packages), a
P_SP_66_12-WP P_SP_66_12-WF 05-5090 05-5100 05-5110 05-5120 05-5130	P6A-M42.05.02.01 DDA Process and Layout Design (2.1)  WP6A-M42.05.02.01.1 MSW treatment process design for incineration (2.1.13)  Incineration System (2.1.13.01) (2 Packages) (link up with 05-3610)  Heat Recovery Boiler (2.1.13.02) (2 Packages) (link up with 05-3620)  Ash Cranes (2.1.13.04) (2 Packages)  Leachate Collection and Treatment (2.1.13.05) (2 Packages)  Waste Water Treatment System (2.1.13.06) (2 Packages)	348 105 105 105 105 105	319 417 189 105 296	86.67% 86.67% 86.67% 0%	5% 5% 0% 5%	14	23-Apr-20 A 07-Dec-20 A 31-May-21 20-Jan-21 A	13-Jun-21 13-Jun-21 12-Sep-21 11-Nov-21	29-Sep-21 12-Oct-21 29-Sep-21 12-Oct-21 20-Nov-21 03-Dec-21 03-Nov-21 15-Feb-22 21-Sep-21 03-Jan-22	121 173 156 53	31-May-21	13-Jun-21, Heat F	Recovery Boiler (2.1.13.02) (2 Pac ranes (2.1.13.04) (2 Packages), a
P_SP_66_12-WF 05-5090 05-5100 05-5110 05-5120 05-5130 05-5140	P6A-M42.05.02.01 DDA Process and Layout Design (2.1)  WP6A-M42.05.02.01.1 MSW treatment process design for incineration (2.1.13)  Incineration System (2.1.13.01) (2 Packages) (link up with 05-3610)  Heat Recovery Boiler (2.1.13.02) (2 Packages) (link up with 05-3620)  Ash Cranes (2.1.13.04) (2 Packages)  Leachate Collection and Treatment (2.1.13.05) (2 Packages)  Waste Water Treatment System (2.1.13.06) (2 Packages)  Overall Plan Water Scheme (2.1.13.07)	348 105 105 105 105 105 105	319 417 189 105 296 236	86.67% 86.67% 86.67% 0% 0%	5% 5% 0% 5% 5%	14	23-Apr-20 A 07-Dec-20 A 31-May-21 20-Jan-21 A 20-Jan-21 A	13-Jun-21 13-Jun-21 12-Sep-21 11-Nov-21 12-Sep-21	29-Sep-21 12-Oct-21 29-Sep-21 12-Oct-21 20-Nov-21 03-Dec-21 03-Nov-21 15-Feb-22 21-Sep-21 03-Jan-22 23-Jul-21 04-Nov-21	121 173 156 53 53	31-May-21	13-Jun-21, Heat F	Recovery Boiler (2.1.13.02) (2 Pa rranes (2.1.13.04) (2 Packages), /
P_SP_66_12-WF 05-5090 05-5100 05-5110 05-5120 05-5130 05-5140 05-5150	P6A-M42.05.02.01 DDA Process and Layout Design (2.1)  WP6A-M42.05.02.01.1 MSW treatment process design for incineration (2.1.13)  Incineration System (2.1.13.01) (2 Packages) (link up with 05-3610)  Heat Recovery Boiler (2.1.13.02) (2 Packages) (link up with 05-3620)  Ash Cranes (2.1.13.04) (2 Packages)  Leachate Collection and Treatment (2.1.13.05) (2 Packages)  Waste Water Treatment System (2.1.13.06) (2 Packages)  Overall Plan Water Scheme (2.1.13.07)  Boiler Feed Water System (2.1.13.03) (2 Packages)	348 105 105 105 105 105 105 105	319 417 189 105 296 236 346	86.67% 86.67% 86.67% 0% 0% 0% 57.14%	5% 5% 0% 5%	14	23-Apr-20 A 07-Dec-20 A 31-May-21 20-Jan-21 A 20-Jan-21 A 03-Aug-20 A	13-Jun-21 13-Jun-21 12-Sep-21 11-Nov-21 12-Sep-21 14-Jul-21	29-Sep-21 12-Oct-21 29-Sep-21 12-Oct-21 20-Nov-21 03-Dec-21 03-Nov-21 15-Feb-22 21-Sep-21 03-Jan-22 23-Jul-21 04-Nov-21 20-Oct-21 03-Dec-21	121 173 156 53 53 142		13-Jun-21, Heat F	Recovery Boiler (2.1.13.02) (2 Pa stranes (2.1.13.04) (2 Packages), a
P_SP_66_12-WF 05-5090 05-5100 05-5110 05-5120 05-5130 05-5140 05-5150 EP_SP_66_12-WF	P6A-M42.05.02.01 DDA Process and Layout Design (2.1)  WP6A-M42.05.02.01.1 MSW treatment process design for incineration (2.1.13) Incineration System (2.1.13.01) (2 Packages) (link up with 05-3610) Heat Recovery Boiler (2.1.13.02) (2 Packages) (link up with 05-3620) Ash Cranes (2.1.13.04) (2 Packages) Leachate Collection and Treatment (2.1.13.05) (2 Packages) Waste Water Treatment System (2.1.13.06) (2 Packages) Overall Plan Water Scheme (2.1.13.07) Boiler Feed Water System (2.1.13.03) (2 Packages)  WP6A-M42.05.02.01.2 MSW treatment process design for mechanical treatment (2.1.14)	348 105 105 105 105 105 105 105 105	319 417 189 105 296 236 346 268	86.67% 86.67% 86.67% 0% 0% 0% 57.14%	5% 5% 0% 5% 5% 45%	14	23-Apr-20 A 07-Dec-20 A 31-May-21 20-Jan-21 A 20-Jan-21 A 03-Aug-20 A	13-Jun-21 13-Jun-21 12-Sep-21 11-Nov-21 12-Sep-21 14-Jul-21 12-Sep-21	29-Sep-21 12-Oct-21 29-Sep-21 12-Oct-21 20-Nov-21 03-Dec-21 03-Nov-21 15-Feb-22 21-Sep-21 03-Jan-22 23-Jul-21 04-Nov-21 20-Oct-21 03-Dec-21 07-Jun-21 19-Sep-21	121 173 156 53 53 142		13-Jun-21, Heat F	Recovery Boiler (2.1.13.02) (2 Pa stranes (2.1.13.04) (2 Packages), a
P_SP_66_12-WF 05-5090 05-5100 05-5110 05-5120 05-5130 05-5140 05-5150 EP_SP_66_12-WF 05-3510	P6A-M42.05.02.01 DDA Process and Layout Design (2.1)  WP6A-M42.05.02.01.1 MSW treatment process design for incineration (2.1.13) Incineration System (2.1.13.01) (2 Packages) (link up with 05-3610) Heat Recovery Boiler (2.1.13.02) (2 Packages) (link up with 05-3620) Ash Cranes (2.1.13.04) (2 Packages) Leachate Collection and Treatment (2.1.13.05) (2 Packages) Waste Water Treatment System (2.1.13.06) (2 Packages) Overall Plan Water Scheme (2.1.13.07) Boiler Feed Water System (2.1.13.03) (2 Packages)  WP6A-M42.05.02.01.2 MSW treatment process design for mechanical treatment (2.1.14) Water Treatment Plant and Boiler Water Treatment (Demin Unit) Plant	348 105 105 105 105 105 105 105 105	319 417 189 105 296 236 346 268 268	86.67% 86.67% 0% 0% 0% 57.14% 0%	5% 5% 0% 5% 5%	14	23-Apr-20 A 07-Dec-20 A 31-May-21 20-Jan-21 A 20-Jan-21 A 03-Aug-20 A 19-Dec-20 A	13-Jun-21 13-Jun-21 12-Sep-21 11-Nov-21 12-Sep-21 14-Jul-21 12-Sep-21 12-Sep-21	29-Sep-21 12-Oct-21 29-Sep-21 12-Oct-21 20-Nov-21 03-Dec-21 03-Nov-21 15-Feb-22 21-Sep-21 03-Jan-22 23-Jul-21 04-Nov-21 20-Oct-21 03-Dec-21 07-Jun-21 19-Sep-21 07-Jun-21 19-Sep-21	121 173 156 53 53 142 7		13-Jun-21, Heat F	Recovery Boiler (2.1.13.02) (2 Pa stranes (2.1.13.04) (2 Packages), a
P_SP_66_12-WF 05-5090 05-5100 05-5110 05-5120 05-5130 05-5140 05-5150 EP_SP_66_12-WF 05-3510 EP_SP_66_12-WF	P6A-M42.05.02.01 DDA Process and Layout Design (2.1)  WP6A-M42.05.02.01.1 MSW treatment process design for incineration (2.1.13) Incineration System (2.1.13.01) (2 Packages) (link up with 05-3610) Heat Recovery Boiler (2.1.13.02) (2 Packages) (link up with 05-3620) Ash Cranes (2.1.13.04) (2 Packages) Leachate Collection and Treatment (2.1.13.05) (2 Packages) Waste Water Treatment System (2.1.13.06) (2 Packages) Overall Plan Water Scheme (2.1.13.07) Boiler Feed Water System (2.1.13.03) (2 Packages)  WP6A-M42.05.02.01.2 MSW treatment process design for mechanical treatment (2.1.14) Water Treatment Plant and Boiler Water Treatment (Demin Unit) Plant  WP6A-M42.05.02.01.3 Waste heat recovery and Power generation system (2.1.15)	348 105 105 105 105 105 105 105 105 105 105	319 417 189 105 296 236 346 268 268	86.67% 86.67% 0% 0% 0% 57.14% 0% 72.22%	5% 5% 0% 5% 5% 45%	14 14 14 105 105 105 45 Start On or After  105 105 105 105 105	23-Apr-20 A 07-Dec-20 A 31-May-21 20-Jan-21 A 20-Jan-21 A 03-Aug-20 A 19-Dec-20 A 20-Apr-20 A	13-Jun-21 13-Jun-21 12-Sep-21 11-Nov-21 12-Sep-21 14-Jul-21 12-Sep-21 12-Sep-21 12-Sep-21	29-Sep-21 12-Oct-21 29-Sep-21 12-Oct-21 20-Nov-21 03-Dec-21 03-Nov-21 15-Feb-22 21-Sep-21 03-Jan-22 23-Jul-21 04-Nov-21 20-Oct-21 03-Dec-21 07-Jun-21 19-Sep-21 07-Jun-21 19-Sep-21 26-Jul-21 05-Feb-22	121 173 156 53 53 142 7 7		13-Jun-21, Heat F	Recovery Boiler (2.1.13.02) (2 Pa Franes (2.1.13.04) (2 Pac kages), /
P_SP_66_12-WF EP_SP_66_12-WF 05-5090 05-5100 05-5110 05-5120 05-5130 05-5140 05-5150 EP_SP_66_12-WF 05-3510 EP_SP_66_12-WF	P6A-M42.05.02.01 DDA Process and Layout Design (2.1)  WP6A-M42.05.02.01.1 MSW treatment process design for incineration (2.1.13) Incineration System (2.1.13.01) (2 Packages) (link up with 05-3610) Heat Recovery Boiler (2.1.13.02) (2 Packages) (link up with 05-3620) Ash Cranes (2.1.13.04) (2 Packages) Leachate Collection and Treatment (2.1.13.05) (2 Packages) Waste Water Treatment System (2.1.13.06) (2 Packages) Overall Plan Water Scheme (2.1.13.07) Boiler Feed Water System (2.1.13.03) (2 Packages)  WP6A-M42.05.02.01.2 MSW treatment process design for mechanical treatment (2.1.14) Water Treatment Plant and Boiler Water Treatment (Demin Unit) Plant	348 105 105 105 105 105 105 105 105 105 105	319 417 189 105 296 236 346 268 268	86.67% 86.67% 0% 0% 0% 57.14% 0%	5% 5% 0% 5% 5% 45%	14	23-Apr-20 A 07-Dec-20 A 31-May-21 20-Jan-21 A 20-Jan-21 A 03-Aug-20 A 19-Dec-20 A 20-Apr-20 A	13-Jun-21 13-Jun-21 12-Sep-21 11-Nov-21 12-Sep-21 14-Jul-21 12-Sep-21 12-Sep-21 12-Sep-21	29-Sep-21 12-Oct-21 29-Sep-21 12-Oct-21 20-Nov-21 03-Dec-21 03-Nov-21 15-Feb-22 21-Sep-21 03-Jan-22 23-Jul-21 04-Nov-21 20-Oct-21 03-Dec-21 07-Jun-21 19-Sep-21 07-Jun-21 19-Sep-21	121 173 156 53 53 142 7		13-Jun-21, Heat F	Recovery Boiler (2.1.13.02) (2 Pa stranes (2.1.13.04) (2 Packages), a
EP_SP_66_12-WF 05-5090 05-5100 05-5110 05-5120 05-5130 05-5140 05-5150 EP_SP_66_12-WF 05-3510	P6A-M42.05.02.01 DDA Process and Layout Design (2.1)  WP6A-M42.05.02.01.1 MSW treatment process design for incineration (2.1.13) Incineration System (2.1.13.01) (2 Packages) (link up with 05-3610) Heat Recovery Boiler (2.1.13.02) (2 Packages) (link up with 05-3620) Ash Cranes (2.1.13.04) (2 Packages) Leachate Collection and Treatment (2.1.13.05) (2 Packages) Waste Water Treatment System (2.1.13.06) (2 Packages) Overall Plan Water Scheme (2.1.13.07) Boiler Feed Water System (2.1.13.03) (2 Packages)  WP6A-M42.05.02.01.2 MSW treatment process design for mechanical treatment (2.1.14) Water Treatment Plant and Boiler Water Treatment (Demin Unit) Plant  WP6A-M42.05.02.01.3 Waste heat recovery and Power generation system (2.1.15)	348 105 105 105 105 105 105 105 105 105 105	319 417 189 105 296 236 346 268 268	86.67% 86.67% 0% 0% 0% 57.14% 0% 72.22%	5% 5% 0% 5% 5% 45%	14 14 14 105 105 105 45 Start On or After  105 105 105 105 105	23-Apr-20 A 07-Dec-20 A 31-May-21 20-Jan-21 A 20-Jan-21 A 03-Aug-20 A 19-Dec-20 A 19-Dec-20 A 20-Apr-20 A 25-May-20 A	13-Jun-21 13-Jun-21 12-Sep-21 11-Nov-21 12-Sep-21 14-Jul-21 12-Sep-21 12-Sep-21 12-Sep-21	29-Sep-21 12-Oct-21 29-Sep-21 12-Oct-21 20-Nov-21 03-Dec-21 03-Nov-21 15-Feb-22 21-Sep-21 03-Jan-22 23-Jul-21 04-Nov-21 20-Oct-21 03-Dec-21 07-Jun-21 19-Sep-21 07-Jun-21 19-Sep-21 26-Jul-21 05-Feb-22 30-Jul-21 12-Oct-21	121 173 156 53 53 142 7 7		13-Jun-21, Heat F	Recovery Boiler (2.1.13.02) (2 Pa Franes (2.1.13.04) (2 Pac kages), /
P_SP_66_12-WP 65-5090 05-5100 05-5110 05-5120 05-5130 05-5150 EP_SP_66_12-WP 05-3510 EP_SP_66_12-WP 05-5220	P6A-M42.05.02.01 DDA Process and Layout Design (2.1)  WP6A-M42.05.02.01.1 MSW treatment process design for incineration (2.1.13) Incineration System (2.1.13.01) (2 Packages) (link up with 05-3610) Heat Recovery Boiler (2.1.13.02) (2 Packages) (link up with 05-3620) Ash Cranes (2.1.13.04) (2 Packages) Leachate Collection and Treatment (2.1.13.05) (2 Packages) Waste Water Treatment System (2.1.13.06) (2 Packages) Overall Plan Water Scheme (2.1.13.07) Boiler Feed Water System (2.1.13.03) (2 Packages)  WP6A-M42.05.02.01.2 MSW treatment process design for mechanical treatment (2.1.14) Water Treatment Plant and Boiler Water Treatment (Demin Unit) Plant  WP6A-M42.05.02.01.3 Waste heat recovery and Power generation system (2.1.15) Power Island (Steam Turbine Generator, Pressure Reducing and Desuperheating Station, Air Cool	348 105 105 105 105 105 105 105 105 105 105	319 417 189 105 296 236 346 268 268 511	86.67% 86.67% 86.67% 0% 0% 0% 57.14% 0% 72.22% 28.57%	5% 5% 0% 5% 5% 45%	14 14 14 105 105 105 45 Start On or After  105 105 105 105 105 105 105 105	23-Apr-20 A 07-Dec-20 A 31-May-21 20-Jan-21 A 20-Jan-21 A 03-Aug-20 A 19-Dec-20 A 19-Dec-20 A 20-Apr-20 A 25-May-20 A	13-Jun-21 13-Jun-21 12-Sep-21 11-Nov-21 12-Sep-21 14-Jul-21 12-Sep-21 12-Sep-21 12-Sep-21 13-Aug-21	29-Sep-21 12-Oct-21 29-Sep-21 12-Oct-21 20-Nov-21 03-Dec-21 03-Nov-21 15-Feb-22 21-Sep-21 04-Nov-21 20-Oct-21 03-Dec-21 07-Jun-21 19-Sep-21 07-Jun-21 19-Sep-21 26-Jul-21 05-Feb-22 30-Jul-21 12-Oct-21 26-Jul-21 07-Nov-21	121 173 156 53 53 142 7 7 146 60		13-Jun-21, Heat F	Recovery Boiler (2.1.13.02) (2 Pa Franes (2.1.13.04) (2 Pac kages), /

3-Month Rolling Programme (May 2021)

Remaining Work Actual Work Critical Remaining Work

Actual Milestone Critical Milestone

♦ Milestone



Contract No. EP/SP/66/

	Contract No. EP/SP/66/12	eP	環境保護署
Integrated Waste Mana	Contract No. EP/SP/66/12 gement Facilities, Phase 1	4	Environmental Protection Departmen

D	MEN HUATOINT VENTURE	Diamari	At Consulation	Duret 0/	Anti-sit- o/	Pomoining Primer: Constraint	Current Ctast	Current Finish	Lata Ctart		Tetal Floor   M49 Bornarks	igernerit raci	maco, i maco	3031
	Activity Name	Planned Duration	At Completion Duration	Duration % Complete	Activity % Complete	Remaining Primary Constraint Duration	Current Start	Current Finish	Late Start	Late Finish	Total Float M42 Remarks	May	Jun 2	2021 Jul Aug
												42	43	44 45
<b>05-4660</b>	Flue Gas Treatment System (2 Packages)	105	418	85.71%	5%	15 Start On or After	23-Apr-20 A	14-Jun-21	28-Sep-21	12-Oct-21	120		14-Jun-21	"Flue Gas Treatment System (2 Packages), Flue
<b>05-4980</b>	Boiler ash and APC residue handling and solidification (2 Packages)	105	418	85.71%	5%	15 Start On or After	23-Apr-20 A	14-Jun-21	19-Nov-21	03-Dec-21	172			, Boiler ash and APC residue handling and solid
EP SP 66 12-V	WP6A-M42.05.02.01.5 Logistic arrangement design for MSW and Ash and Residues (2.1.17)	378	434	72.22%		105	06-Jul-20 A	12-Sep-21	21-Aug-21	29-Dec-21	108			
<b>05-4400</b>	Waste Crane and Grapple System	105	359	71.43%	5%	30	06-Jul-20 A	29-Jun-21	30-Nov-21	29-Dec-21	183			29-Jun-21, Waste Crane and Grapple System,
<b>o</b> 5-4410	Mechanical Shredder	105	105	0%	0%	105	31-May-21	12-Sep-21		03-Dec-21	82	31-May-21		
	WP6A-M42.05.02.01.6 Site Master Layout Plan and Plant Layout (2.1.18)				070	105	30-Jun-21	12-Oct-21		12-Oct-21		OT May 21		1
	Site Master Layout Plan and Plant Layout	105	105	0%	00/	105								
05-3520					0%		30-Jun-21	12-Oct-21		12-Oct-21	0		30-Jun-21	
	WP6A-M42.05.02.01.7 Statutory Fire Compliance (2.1.26)	60				62	10-Apr-19 A		3	13-Oct-21	74			<u> </u>
<u> </u>	Fire Safety Compliance	60	844	0%	5%	62	10-Apr-19 A	31-Jul-21	13-Aug-21	13-Oct-21	74			31-Jul-21, Fire Safet
	/P6A-M42.05.02.02 DDA Ground Treatment, Reclamation, Seawall, Breakwater, Berth (2.2)	816	1049	88.97%		90	15-Oct-18 A		24-Jun-21		242			
o5-3430-2(M37)	Geotechnical Interpretative Report (2.2.02.02)	105	1049	14.29%	65%	90	15-Oct-18 A	28-Aug-21	14-Jul-21	11-Oct-21	44			1
o5-3450	Seawall design (2.2.20)	60	961	50%	65%	30	12-Nov-18 A	29-Jun-21	24-Jun-21	23-Jul-21	24			29-Jun-21, Seawall design (2.2.20), Seawall de
<b>o</b> 5-3460	Breakwater design (2.2.21)	105	691	100%	65%	0	12-Apr-19 A	03-Mar-21 A				1		-
05-3470	Berth design (2.2.22)	60	972	50%	65%	30	01-Nov-18 A	29-Jun-21	29-Mar-22	27-Apr-22	302			: 
	/P6A-M42.05.02.03 DDA Incineration Plant Buildings (2.3)	1093	1108	75.3%	0070	270	13-Feb-19 A	24-Feb-22		04-Jun-23				20 0011 21, 20101 000191 (2:2:22), 20101 000191
	WP6A-M42.05.02.03 DDA mondation Plant Buildings (23)	135	135	0%		135	30-Jun-21	11-Nov-21		07-Sep-22	300			
					00/								00 1 01	·
o5-3290	Process Building	105	105	0%	0%	105	30-Jun-21	12-Oct-21	30-Jun-21		0 Revised durtation 135 to 105		30-Jun-21	<u> </u>
o5-3300	ACC Equipment Yard	135	135	0%	0%	135	30-Jun-21	11-Nov-21	26-Apr-22	07-Sep-22	300		30-Jun-21	
<b>o</b> 5-3310	Turbine Hall Building	105	105	0%	0%	105	30-Jun-21	12-Oct-21	07-Sep-21	20-Dec-21	69		30-Jun-21	'
<b>o</b> 5-3320	CCCW Building	105	105	0%	0%	105	30-Jun-21	12-Oct-21	22-Jul-21	03-Nov-21	22		30-Jun-21	
05-3330	Chimney	105	105	0%	0%	105	30-Jun-21	12-Oct-21	14-Sep-21	27-Dec-21	76	1	30-Jun-21	
<b>05-3340</b>	Elevated Drive Way and Associated Structures	105	105	0%	0%	105	30-Jun-21	12-Oct-21	25-Oct-21		117		30-Jun-21	
05-3350	Reception Pavilion	105	105	0%	0%	105	30-Jun-21	12-Oct-21		2 28-Aug-22	320	<del> </del>	30-Jun-21	
	· · ·				0%									
	NP6A-M42.05.02.03.2 Foundation design (2.3.13)	158	158	0%		158	31-May-21	04-Nov-21		29-Apr-22	176			<u> </u>
<b>o</b> 5-3220	Process Building Waste Bunker, Tipping Hall, Basin Area and Workshop	137	137	0%	0%	137	31-May-21	14-Oct-21	23-Aug-21	06-Jan-22	84	31-May-21		
<b>5</b> 05-3230	ACC Equipment Yard	137	137	0%	0%	137	21-Jun-21	04-Nov-21	14-Dec-21	29-Apr-22	176		21-Jun-21	-1
EP_SP_66_12-V	NP6A-M42.05.02.03.3 Structural design (2.3.14)	401	557	52.87%		189	28-May-20 A	05-Dec-21	26-Jun-21	04-Jun-23	546			
<b>05-5340</b>	ACC Equipment Yard	150	380	50%	65%	75 Start On or After	30-Jul-20 A	13-Aug-21	26-Jun-21	08-Sep-21	26			13-Aug-2
05-5350	Turbin Hall Building (2.3.14.03)	189	189	0%	0%	189 Start On or After	31-May-21*	05-Dec-21	16-Apr-22	21-Oct-22	320	31-May-21*		· <del>-</del>
05-5360	Compressor and CCCW Building	189	189	0%	0%	189 Start On or After	31-May-21*	05-Dec-21	28-Nov-22		546	31-May-21*		
_	•	189	189	0%		189	-	05-Dec-21			193	31-May-21		
05-5380	Elevated Drive Way and associated structures				0%		31-May-21		10-Dec-21			31-May-21		
o5-5390	Reception Pavilion Structural Design	189	557	0%	5%	189 Start On or After	28-May-20 A			10-Apr-23	491			
	NP6A-M42.05.02.03.4 Electrical and instrumentation works design (2.3.15)	302		45.36%		165	22-Sep-20 A			28-Jun-22	229			
<b>o</b> 5-3360	11kV/380V Power Transformers and 11kV Earthing Transformer	105	296	57.14%	5%	45	22-Sep-20 A	14-Jul-21	15-May-22	28-Jun-22	349			14-Jul-21, 11kV/380V Power Tran
05-3370	E&IC Package 1 (Process Island)	120	120	0%	0%	120	31-May-21	27-Sep-21	17-Sep-21	14-Jan-22	109	31-May-21		-
o5-3380	E&IC Package 2 (Power Island)	165	324	0%	5%	165 Finish On	23-Dec-20 A	11-Nov-21*	24-Nov-21	07-May-22	177			
EP SP 66 12-V	WP6A-M42.05.02.03.8 Operation Management System (2.3.15.04)	378	462	72.22%		105	08-Jun-20 A	12-Sep-21	16-Jan-22	30-Apr-22	230			· <del></del>
<b>05-3390</b>	Supervisory Control/Data Acquisition/Distributed Control (SCADA/DCS) System (12 Packages)	105	462	0%	5%	105	08-Jun-20 A	12-Sep-21	16-Jan-22	30-Apr-22	230			
<b>o</b> 5-3420	Automatic License Plate and Container Recoginition System (ALPCRS)				00/	105		12-Sep-21	16-Jan-22	30-Apr-22	230	31-May-21		
		105	105	0%	0%		31-May-21			1 1		31-Way-21		
		105	105 1108		0%		31-May-21 13-Feb-19 A		03-Jun-21	21-Oct-22	239	31-Way-21		
EP_SP_66_12-V	NP6A-M42.05.02.03.5 Mechanical works design (2.3.16)	1093	1108	75.3%	0%	270	13-Feb-19 A	24-Feb-22		21-Oct-22 27-Jun-22	239	31-Way-21		
EP_SP_66_12-V	WP6A-M42.05.02.03.5 Mechanical works design (2.3.16) -WP6A-M42.05.02.03.5.1 Plant and Equipment	1093 1093	1108 1108	75.3% 75.3%		270 270	13-Feb-19 A 13-Feb-19 A	24-Feb-22 24-Feb-22	03-Jun-21	27-Jun-22	123			
EP_SP_66_12-V EP_SP_66_12- 05-3580	WP6A-M42.05.02.03.5 Mechanical works design (2.3.16) -WP6A-M42.05.02.03.5.1 Plant and Equipment Weighbridge Systems	1093 1093 270	1108 1108 270	75.3% 75.3% 0%	0%	270 270 270	13-Feb-19 A 13-Feb-19 A 31-May-21	24-Feb-22 24-Feb-22 24-Feb-22	03-Jun-21 03-Jun-21	27-Jun-22 27-Feb-22	123	31-May-21		
EP_SP_66_12-V EP_SP_66_12- 05-3580 05-3590	WP6A-M42.05.02.03.5 Mechanical works design (2.3.16) -WP6A-M42.05.02.03.5.1 Plant and Equipment Weighbridge Systems Waste Crane and Grapple System	1093 1093 270 105	1108 1108 270 356	75.3% 75.3% 0% 0%	0% 5%	270 270 270 113	13-Feb-19 A 13-Feb-19 A 31-May-21 30-Sep-20 A	24-Feb-22 24-Feb-22 24-Feb-22 20-Sep-21	03-Jun-21 03-Jun-21 07-Dec-21	27-Jun-22 27-Feb-22 29-Mar-22	123 3 190	31-May-21		
EP_SP_66_12-V EP_SP_66_12-  05-3580  05-3590  05-3600	WP6A-M42.05.02.03.5 Mechanical works design (2.3.16) -WP6A-M42.05.02.03.5.1 Plant and Equipment Weighbridge Systems Waste Crane and Grapple System Mechanical Shredder	1093 1093 270 105 105	1108 1108 270 356 452	75.3% 75.3% 0% 0% 0%	0% 5% 5%	270 270 270 270 113 218	13-Feb-19 A 13-Feb-19 A 31-May-21 30-Sep-20 A 09-Oct-20 A	24-Feb-22 24-Feb-22 24-Feb-22 20-Sep-21 03-Jan-22	03-Jun-21 03-Jun-21 07-Dec-21 05-Aug-21	27-Jun-22 27-Feb-22 29-Mar-22 10-Mar-22	123 3 190 66	31-May-21		
EP_SP_66_12-V EP_SP_66_12- 05-3580 05-3590 05-3600	WP6A-M42.05.02.03.5 Mechanical works design (2.3.16) -WP6A-M42.05.02.03.5.1 Plant and Equipment Weighbridge Systems Waste Crane and Grapple System	1093 1093 270 105	1108 1108 270 356	75.3% 75.3% 0% 0%	0% 5%	270 270 270 113	13-Feb-19 A 13-Feb-19 A 31-May-21 30-Sep-20 A	24-Feb-22 24-Feb-22 24-Feb-22 20-Sep-21 03-Jan-22	03-Jun-21 03-Jun-21 07-Dec-21	27-Jun-22 27-Feb-22 29-Mar-22 10-Mar-22	123 3 190	31-May-21		
EP_SP_66_12-V EP_SP_66_12- 05-3580 05-3590 05-3600 05-3610	WP6A-M42.05.02.03.5 Mechanical works design (2.3.16) -WP6A-M42.05.02.03.5.1 Plant and Equipment Weighbridge Systems Waste Crane and Grapple System Mechanical Shredder	1093 1093 270 105 105	1108 1108 270 356 452	75.3% 75.3% 0% 0% 0%	0% 5% 5%	270 270 270 270 113 218	13-Feb-19 A 13-Feb-19 A 31-May-21 30-Sep-20 A 09-Oct-20 A	24-Feb-22 24-Feb-22 24-Feb-22 20-Sep-21 03-Jan-22 12-Feb-22	03-Jun-21 03-Jun-21 07-Dec-21 05-Aug-21	27-Jun-22 27-Feb-22 29-Mar-22 10-Mar-22 27-Jun-22	123 3 190 66	31-May-21		
EP_SP_66_12-V EP_SP_66_12-  05-3580  05-3590  05-3600	WP6A-M42.05.02.03.5 Mechanical works design (2.3.16) -WP6A-M42.05.02.03.5.1 Plant and Equipment Weighbridge Systems Waste Crane and Grapple System Mechanical Shredder Incineration System (9 Packages)	1093 1093 270 105 105	1108 1108 270 356 452 1096	75.3% 75.3% 0% 0% 0% 0%	0% 5% 5% 5%	270 270 270 270 113 218 258	13-Feb-19 A 13-Feb-19 A 31-May-21 30-Sep-20 A 09-Oct-20 A 13-Feb-19 A	24-Feb-22 24-Feb-22 24-Feb-22 20-Sep-21 03-Jan-22 12-Feb-22	03-Jun-21 03-Jun-21 07-Dec-21 05-Aug-21 13-Oct-21	27-Jun-22 27-Feb-22 29-Mar-22 10-Mar-22 27-Jun-22 23-Feb-22	123 3 190 66 135	31-May-21		04-Jul-21, Boiler Feed Water Systems (4
EP_SP_66_12-V EP_SP_66_12- 05-3580 05-3590 05-3600 05-3610 05-3620 05-3630	WP6A-M42.05.02.03.5 Mechanical works design (2.3.16) -WP6A-M42.05.02.03.5.1 Plant and Equipment Weighbridge Systems Waste Crane and Grapple System Mechanical Shredder Incineration System (9 Packages) Heat Recovery Boiler (8 Packages)	1093 1093 270 105 105 105	1108 1108 270 356 452 1096 1003 720	75.3% 75.3% 0% 0% 0% 0%	0% 5% 5% 5% 5% 5%	270 270 270 113 218 258 258 35	13-Feb-19 A 13-Feb-19 A 31-May-21 30-Sep-20 A 09-Oct-20 A 13-Feb-19 A 17-May-19 A 16-Jul-19 A	24-Feb-22 24-Feb-22 24-Feb-22 20-Sep-21 03-Jan-22 12-Feb-22 12-Feb-22 04-Jul-21	03-Jun-21 03-Jun-21 07-Dec-21 05-Aug-21 13-Oct-21 11-Jun-21 12-Jun-21	27-Jun-22 27-Feb-22 29-Mar-22 10-Mar-22 27-Jun-22 23-Feb-22 16-Jul-21	123 3 190 66 135 11	31-May-21		04-Jul-21, Boiler Feed Water Systems (4
EP_SP_66_12-V EP_SP_66_12- 05-3580 05-3590 05-3600 05-3610 05-3620 05-3630 05-3640	WP6A-M42.05.02.03.5 Mechanical works design (2.3.16)  WP6A-M42.05.02.03.5.1 Plant and Equipment  Weighbridge Systems  Waste Crane and Grapple System  Mechanical Shredder  Incineration System (9 Packages)  Heat Recovery Boiler (8 Packages)  Boiler Feed Water Systems (4 Packages)  Ash cranes	1093 1093 270 105 105 105 105 105 30	1108 1108 270 356 452 1096 1003 720 298	75.3% 75.3% 0% 0% 0% 0% 0% 66.67%	0% 5% 5% 5% 5% 5% 65%	270 270 270 113 218 258 258 35	13-Feb-19 A 13-Feb-19 A 31-May-21 30-Sep-20 A 09-Oct-20 A 13-Feb-19 A 17-May-19 A 16-Jul-19 A 09-Feb-21 A	24-Feb-22 24-Feb-22 24-Feb-22 20-Sep-21 03-Jan-22 12-Feb-22 12-Feb-22 04-Jul-21 03-Dec-21	03-Jun-21 03-Jun-21 07-Dec-21 05-Aug-21 13-Oct-21 11-Jun-21 12-Jun-21 26-Jun-21	27-Jun-22 27-Feb-22 29-Mar-22 10-Mar-22 27-Jun-22 23-Feb-22 16-Jul-21 29-Dec-21	123 3 190 66 135 11 12 26	31-May-21		04-Jul-21, Boiler Feed Water Systems (4
EP_SP_66_12-V EP_SP_66_12- 05-3580 05-3590 05-3600 05-3610 05-3620 05-3630 05-3640 05-3650	WP6A-M42.05.02.03.5 Mechanical works design (2.3.16)  WP6A-M42.05.02.03.5.1 Plant and Equipment  Weighbridge Systems  Waste Crane and Grapple System  Mechanical Shredder  Incineration System (9 Packages)  Heat Recovery Boiler (8 Packages)  Boiler Feed Water Systems (4 Packages)  Ash cranes  Leachate collection and treatment	1093 1093 270 105 105 105 105 105 30	1108 1108 270 356 452 1096 1003 720 298	75.3% 75.3% 0% 0% 0% 0% 0% 0% 66.67% 0% 52.38%	0% 5% 5% 5% 5% 5% 65% 45%	270 270 270 113 218 258 258 258 35 187 50 Start On or After	13-Feb-19A 13-Feb-19A 31-May-21 30-Sep-20 A 09-Oct-20 A 13-Feb-19 A 17-May-19 A 16-Jul-19A 09-Feb-21 A 30-Sep-20 A	24-Feb-22 24-Feb-22 24-Feb-22 20-Sep-21 03-Jan-22 12-Feb-22 12-Feb-22 04-Jul-21 03-Dec-21 19-Jul-21	03-Jun-21 03-Jun-21 07-Dec-21 05-Aug-21 13-Oct-21 11-Jun-21 12-Jun-21 26-Jun-21 20-Jan-22	27-Jun-22 27-Feb-22 29-Mar-22 10-Mar-22 27-Jun-22 23-Feb-22 16-Jul-21 29-Dec-21	123 3 190 66 135 11 12 26 234	31-May-21		04-Jul-21, Boiler Feed Water Systems (4
EP_SP_66_12-V EP_SP_66_12- 05-3580 05-3590 05-3600 05-3610 05-3620 05-3630 05-3640 05-3650 05-3790	WP6A-M42.05.02.03.5 Mechanical works design (2.3.16)  WP96A-M42.05.02.03.5.1 Plant and Equipment  Weighbridge Systems  Waste Crane and Grapple System  Mechanical Shredder  Incineration System (9 Packages)  Heat Recovery Boiler (8 Packages)  Boiler Feed Water Systems (4 Packages)  Ash cranes  Leachate collection and treatment  Flue Gas Treatment System (12 Packages)	1093 1093 270 105 105 105 105 105 105 105 105	1108 1108 270 356 452 1096 1003 720 298 293 629	75.3% 75.3% 0% 0% 0% 0% 0% 0% 66.67% 0% 52.38% 66.67%	0% 5% 5% 5% 5% 5% 65% 45% 5%	270 270 270 113 218 258 258 258 35 187 50 Start On or After	13-Feb-19A 13-Feb-19A 31-May-21 30-Sep-20 A 09-Oct-20 A 13-Feb-19 A 17-May-19 A 16-Jul-19 A 09-Feb-21 A 30-Sep-20 A 15-Oct-19 A	24-Feb-22 24-Feb-22 24-Feb-22 20-Sep-21 03-Jan-22 12-Feb-22 12-Feb-22 04-Jul-21 03-Dec-21 19-Jul-21 04-Jul-21	03-Jun-21 03-Jun-21 07-Dec-21 05-Aug-21 13-Oct-21 11-Jun-21 12-Jun-21 26-Jun-21 20-Jan-22 08-Sep-21	27-Jun-22 27-Feb-22 29-Mar-22 10-Mar-22 27-Jun-22 23-Feb-22 16-Jul-21 29-Dec-21 10-Mar-22 12-Oct-21	123 3 190 66 135 11 12 26 234 100	31-May-21		04-Jul-21, Boiler Feed Water Systems (-  19-Jul-21, Leachate collection  04-Jul-21, Flue Gas Treatment System (
EP_SP_66_12-V EP_SP_66_12- 05-3580 05-3590 05-3600 05-3610 05-3620 05-3630 05-3640 05-3650 05-3790 05-3800	WP6A-M42.05.02.03.5 Mechanical works design (2.3.16)  WP6A-M42.05.02.03.5.1 Plant and Equipment  Weighbridge Systems  Waste Crane and Grapple System  Mechanical Shredder  Incineration System (9 Packages)  Heat Recovery Boiler (8 Packages)  Boiler Feed Water Systems (4 Packages)  Ash cranes  Leachate collection and treatment  Flue Gas Treatment System (12 Packages)  Boiler ash and APC residue handing and solidification	1093 1093 270 105 105 105 105 105 105 105 105 105	1108 1108 270 356 452 1096 1003 720 298 293 629 434	75.3% 75.3% 0% 0% 0% 0% 0% 0% 66.67% 0% 52.38% 66.67% 25.71%	0% 5% 5% 5% 5% 5% 65% 45% 5%	270 270 270 270 113 218 258 258 35 187 50 Start On or After 35 78 Start On or After	13-Feb-19A 13-Feb-19A 31-May-21 30-Sep-20 A 09-Oct-20 A 13-Feb-19 A 17-May-19 A 16-Jul-19 A 09-Feb-21 A 30-Sep-20 A 15-Oct-19 A 09-Jun-20 A	24-Feb-22 24-Feb-22 24-Feb-22 20-Sep-21 03-Jan-22 12-Feb-22 12-Feb-22 04-Jul-21 03-Dec-21 19-Jul-21 04-Jul-21 16-Aug-21	03-Jun-21 03-Jun-21 07-Dec-21 05-Aug-21 13-Oct-21 11-Jun-21 12-Jun-21 26-Jun-21 20-Jan-22 08-Sep-21 23-Dec-21	27-Jun-22 27-Feb-22 29-Mar-22 10-Mar-22 27-Jun-22 23-Feb-22 16-Jul-21 29-Dec-21 10-Mar-22 12-Oct-21 10-Mar-22	123 3 190 66 135 11 12 26 234 100 206	31-May-21		04-Jul-21, Boiler Feed Water Systems (4)  19-Jul-21, Leachate collection  04-Jul-21, Flue Gas Treatment System (1)  16-Aug
EP_SP_66_12-V EP_SP_66_12- 05-3580 05-3590 05-3600 05-3610 05-3620 05-3630 05-3640 05-3650 05-3790	WP6A-M42.05.02.03.5 Mechanical works design (2.3.16)  WP6A-M42.05.02.03.5.1 Plant and Equipment  Weighbridge Systems  Waste Crane and Grapple System  Mechanical Shredder  Incineration System (9 Packages)  Heat Recovery Boiler (8 Packages)  Boiler Feed Water Systems (4 Packages)  Ash cranes  Leachate collection and treatment  Flue Gas Treatment System (12 Packages)	1093 1093 270 105 105 105 105 105 105 105 105	1108 1108 270 356 452 1096 1003 720 298 293 629	75.3% 75.3% 0% 0% 0% 0% 0% 0% 66.67% 0% 52.38% 66.67%	0% 5% 5% 5% 5% 5% 65% 45% 5%	270 270 270 113 218 258 258 258 35 187 50 Start On or After	13-Feb-19A 13-Feb-19A 31-May-21 30-Sep-20 A 09-Oct-20 A 13-Feb-19 A 17-May-19 A 16-Jul-19 A 09-Feb-21 A 30-Sep-20 A 15-Oct-19 A	24-Feb-22 24-Feb-22 24-Feb-22 20-Sep-21 03-Jan-22 12-Feb-22 12-Feb-22 04-Jul-21 03-Dec-21 19-Jul-21 04-Jul-21	03-Jun-21 03-Jun-21 07-Dec-21 05-Aug-21 13-Oct-21 11-Jun-21 12-Jun-21 26-Jun-21 20-Jan-22 08-Sep-21	27-Jun-22 27-Feb-22 29-Mar-22 10-Mar-22 27-Jun-22 23-Feb-22 16-Jul-21 29-Dec-21 10-Mar-22 12-Oct-21	123 3 190 66 135 11 12 26 234 100	31-May-21		04-Jul-21, Boiler Feed Water Systems (4)  19-Jul-21, Leachate collection  04-Jul-21, Flue Gas Treatment System (1)  16-Au
EP_SP_66_12-V EP_SP_66_12- 05-3580 05-3590 05-3600 05-3610 05-3620 05-3630 05-3640 05-3650 05-3650 05-3790 05-3800 05-3810	WP6A-M42.05.02.03.5 Mechanical works design (2.3.16)  WP6A-M42.05.02.03.5.1 Plant and Equipment  Weighbridge Systems  Waste Crane and Grapple System  Mechanical Shredder  Incineration System (9 Packages)  Heat Recovery Boiler (8 Packages)  Boiler Feed Water Systems (4 Packages)  Ash cranes  Leachate collection and treatment  Flue Gas Treatment System (12 Packages)  Boiler ash and APC residue handing and solidification	1093 1093 270 105 105 105 105 105 105 105 105 105	1108 1108 270 356 452 1096 1003 720 298 293 629 434	75.3% 75.3% 0% 0% 0% 0% 0% 0% 66.67% 0% 52.38% 66.67% 25.71%	0% 5% 5% 5% 5% 5% 65% 45% 5%	270 270 270 270 113 218 258 258 35 187 50 Start On or After 35 78 Start On or After	13-Feb-19A 13-Feb-19A 31-May-21 30-Sep-20 A 09-Oct-20 A 13-Feb-19 A 17-May-19 A 16-Jul-19 A 09-Feb-21 A 30-Sep-20 A 15-Oct-19 A 09-Jun-20 A	24-Feb-22 24-Feb-22 24-Feb-22 20-Sep-21 03-Jan-22 12-Feb-22 12-Feb-22 04-Jul-21 03-Dec-21 19-Jul-21 04-Jul-21 16-Aug-21	03-Jun-21 03-Jun-21 07-Dec-21 05-Aug-21 13-Oct-21 11-Jun-21 12-Jun-21 26-Jun-21 20-Jan-22 08-Sep-21 23-Dec-21	27-Jun-22 27-Feb-22 29-Mar-22 10-Mar-22 27-Jun-22 23-Feb-22 16-Jul-21 29-Dec-21 10-Mar-22 12-Oct-21 10-Mar-22 12-Oct-21	123 3 190 66 135 11 12 26 234 100 206	31-May-21		04-Jul-21, Boiler Feed Water Systems (-  19-Jul-21, Leachate collectic  04-Jul-21, Flue Gas Treatment System (  16-Au  13-Aug-
EP_SP_66_12-V EP_SP_66_12-  05-3580  05-3590  05-3600  05-3610  05-3620  05-3630  05-3640  05-3650  05-3790  05-3800	WP6A-M42.05.02.03.5 Mechanical works design (2.3.16)  WP96A-M42.05.02.03.5.1 Plant and Equipment  Weighbridge Systems  Waste Crane and Grapple System  Mechanical Shredder  Incineration System (9 Packages)  Heat Recovery Boiler (8 Packages)  Boiler Feed Water Systems (4 Packages)  Ash cranes  Leachate collection and treatment  Flue Gas Treatment System (12 Packages)  Boiler ash and APC residue handling and solidification  Steam Turbine Generator (STG) and Pressure Reducing and Desuperheating Station (PRDS)  Air cooled condenser	1093 1093 270 105 105 105 105 105 105 105 105 105 10	1108 1108 270 356 452 1096 1003 720 298 293 629 434 380	75.3% 75.3% 0% 0% 0% 0% 0% 0% 66.67% 0% 52.38% 66.67% 25.71% 28.57%	0% 5% 5% 5% 5% 5% 65% 45% 5% 5%	270 270 270 270 113 218 258 258 35 187 50 Start On or After 35 78 Start On or After	13-Feb-19A 13-Feb-19A 31-May-21 30-Sep-20 A 09-Oct-20 A 13-Feb-19 A 17-May-19 A 16-Jul-19 A 09-Feb-21 A 30-Sep-20 A 15-Oct-19 A 09-Jun-20 A 30-Jul-20 A	24-Feb-22 24-Feb-22 24-Feb-22 20-Sep-21 03-Jan-22 12-Feb-22 12-Feb-22 04-Jul-21 03-Dec-21 19-Jul-21 04-Jul-21 16-Aug-21 13-Aug-21	03-Jun-21 03-Jun-21 07-Dec-21 05-Aug-21 13-Oct-21 11-Jun-21 12-Jun-21 26-Jun-21 20-Jan-22 08-Sep-21 23-Dec-21 30-Jul-21	27-Jun-22 27-Feb-22 29-Mar-22 10-Mar-22 27-Jun-22 23-Feb-22 16-Jul-21 29-Dec-21 10-Mar-22 12-Oct-21 10-Mar-22 12-Oct-21 28-Oct-21	123 3 190 66 135 11 12 26 234 100 206 60	31-May-21		04-Jul-21, Boiler Feed Water Systems (4)  19-Jul-21, Leachate collectio  04-Jul-21, Flue Gas Treatment System (1)  16-Aug-2
EP_SP_66_12-V EP_SP_66_12- 05-3580 05-3590 05-3600 05-3610 05-3620 05-3630 05-3640 05-3650 05-3650 05-3810 05-3810 05-3820 05-3825(3)	WP6A-M42.05.02.03.5 Mechanical works design (2.3.16)  -WP6A-M42.05.02.03.5.1 Plant and Equipment  Weighbridge Systems  Waste Crane and Grapple System  Mechanical Shredder  Incineration System (9 Packages)  Heat Recovery Boiler (8 Packages)  Boiler Feed Water Systems (4 Packages)  Ash cranes  Leachate collection and treatment  Flue Gas Treatment System (12 Packages)  Boiler ash and APC residue handling and solidification  Steam Turbine Generator (STG) and Pressure Reducing and Desuperheating Station (PRDS)  Air cooled condenser  Closed Circuit Cooling Water System	1093 1093 270 105 105 105 105 105 105 105 105 105 10	1108 1108 270 356 452 1096 1003 720 298 293 629 434 380 435	75.3% 75.3% 0% 0% 0% 0% 0% 66.67% 0% 52.38% 66.67% 25.71% 28.57% 0%	0% 5% 5% 5% 5% 5% 65% 45% 5% 5% 5% 5%	270 270 270 270 113 218 258 258 35 187 50 Start On or After 35 78 Start On or After 75 130 173	13-Feb-19A 13-Feb-19A 31-May-21 30-Sep-20 A 09-Oct-20 A 13-Feb-19 A 17-May-19 A 16-Jul-19 A 09-Feb-21 A 30-Sep-20 A 15-Oct-19 A 09-Jun-20 A 30-Jul-20 A 30-Jul-20 A	24-Feb-22 24-Feb-22 24-Feb-22 20-Sep-21 03-Jan-22 12-Feb-22 04-Jul-21 03-Dec-21 19-Jul-21 04-Jul-21 16-Aug-21 13-Aug-21 19-Nov-21	03-Jun-21 03-Jun-21 07-Dec-21 05-Aug-21 13-Oct-21 11-Jun-21 12-Jun-21 26-Jun-21 20-Jan-22 08-Sep-21 23-Dec-21 30-Jul-21 21-Jun-21	27-Jun-22 27-Feb-22 29-Mar-22 10-Mar-22 27-Jun-22 23-Feb-22 16-Jul-21 29-Dec-21 10-Mar-22 12-Oct-21 10-Mar-22 12-Oct-21 28-Oct-21 06-May-22	123 3 190 66 135 11 12 26 234 100 206 60 21 168	31-May-21		04-Jul-21, Boiler Feed Water Systems (  19-Jul-21, Leachate collection  04-Jul-21, Flue Gas Treatment System (  16-Au  13-Aug-
EP_SP_66_12-V EP_SP_66_12- 05-3580 05-3590 05-3600 05-3610 05-3620 05-3630 05-3640 05-3650 05-3790 05-3800 05-3810 05-3820 05-3825(3)	WP6A-M42.05.02.03.5 Mechanical works design (2.3.16)  -WP6A-M42.05.02.03.5.1 Plant and Equipment  Weighbridge Systems  Waste Crane and Grapple System  Mechanical Shredder  Incineration System (9 Packages)  Heat Recovery Boiler (8 Packages)  Boiler Feed Water Systems (4 Packages)  Ash cranes  Leachate collection and treatment  Flue Gas Treatment System (12 Packages)  Boiler ash and APC residue handling and solidification  Steam Turbine Generator (STG) and Pressure Reducing and Desuperheating Station (PRDS)  Air cooled condenser  Closed Circuit Cooling Water System  Compressed Air Plants	1093 1093 270 105 105 105 105 105 105 105 105 105 10	1108 1108 270 356 452 1096 1003 720 298 293 629 434 380 435 478	75.3% 75.3% 0% 0% 0% 0% 0% 66.67% 0% 52.38% 66.67% 25.71% 28.57% 0% 0%	0% 5% 5% 5% 5% 5% 65% 45% 5% 5% 5%	270 270 270 270 270 113 218 258 258 35 187 50 Start On or After 35 78 Start On or After 75 130 173 240	13-Feb-19A 13-Feb-19 A 31-May-21 30-Sep-20 A 09-Cet-20 A 13-Feb-19 A 17-May-19 A 16-Jul-19 A 09-Feb-21 A 30-Sep-20 A 15-Cet-19 A 09-Jun-20 A 30-Jul-20 A 30-Jul-20 A 13-Feb-19 A	24-Feb-22 24-Feb-22 24-Feb-22 20-Sep-21 03-Jan-22 12-Feb-22 12-Feb-22 04-Jul-21 03-Dec-21 19-Jul-21 16-Aug-21 13-Aug-21 07-Oct-21 19-Nov-21 25-Jan-22	03-Jun-21 03-Jun-21 07-Dec-21 05-Aug-21 13-Oct-21 11-Jun-21 12-Jun-21 26-Jun-22 08-Sep-21 23-Dec-21 30-Jul-21 21-Jun-21 09-Sep-21	27-Jun-22 27-Feb-22 29-Mar-22 10-Mar-22 27-Jun-22 23-Feb-22 16-Jul-21 29-Dec-21 10-Mar-22 12-Oct-21 10-Mar-22 12-Oct-21 28-Oct-21 06-May-22 06-May-22	123 3 190 66 135 11 12 26 234 100 206 60 21 168 101	31-May-21		04-Jul-21, Boiler Feed Water Systems (-  19-Jul-21, Leachate collectic  04-Jul-21, Flue Gas Treatment System (  16-Au  13-Aug-
EP SP 66 12-V EP_SP 66 12-V 05-3580 05-3590 05-3600 05-3610 05-3620 05-3630 05-3640 05-3650 05-3650 05-3820 05-3820 05-3820 05-3830 EP_SP 66 12-V	WP6A-M42.05.02.03.51 Mechanical works design (2.3.16)  WP6A-M42.05.02.03.5.1 Plant and Equipment  Weighbridge Systems  Waste Crane and Grapple System  Mechanical Shredder  Incineration System (9 Packages)  Heat Recovery Boiler (8 Packages)  Boiler Feed Water Systems (4 Packages)  Ash cranes  Leachate collection and treatment  Flue Gas Treatment System (12 Packages)  Boiler ash and APC residue handling and solidification  Steam Turtine Generator (STG) and Pressure Reducing and Desuperheating Station (PRDS)  Air cooled condenser  Closed Circuit Cooling Water System  Compressed Air Plants  WP6A-M42.05.02.03.5.2 Process Pipeworks (Incl. Ductworks) and Valves	1093 1093 270 105 105 105 105 105 105 105 105 105 10	1108 1108 270 356 452 1096 1003 720 298 293 629 434 380 435 478	75.3% 75.3% 0% 0% 0% 0% 0% 0% 66.67% 52.38% 66.67% 25.71% 28.57% 0% 0% 81.32%	0% 5% 5% 5% 5% 5% 65% 45% 5% 5% 5% 5% 5%	270 270 270 270 270 113 218 258 258 35 187 50 Start On or After 35 78 Start On or After 75 130 173 240 105	13-Feb-19A 13-Feb-19 A 31-May-21 30-Sep-20 A 09-Cet-20 A 13-Feb-19 A 17-May-19 A 16-Jul-19 A 09-Feb-21 A 30-Sep-20 A 15-Cet-19 A 09-Jun-20 A 30-Jul-20 A 30-Jul-20 A 30-Jul-20 A 13-Feb-19 A 16-May-19 A	24-Feb-22 24-Feb-22 24-Feb-22 20-Sep-21 03-Jan-22 12-Feb-22 12-Feb-22 04-Jul-21 03-Dec-21 19-Jul-21 16-Aug-21 13-Aug-21 19-Nov-21 25-Jan-22 12-Sep-21	03-Jun-21 03-Jun-21 07-Dec-21 05-Aug-21 11-Jun-21 12-Jun-21 20-Jun-22 20-Jun-22 23-Dec-21 30-Jul-21 21-Jun-21 15-Nov-21 09-Sep-21	27-Jun-22 27-Feb-22 29-Mar-22 10-Mar-22 27-Jun-22 23-Feb-22 16-Jul-21 10-Mar-22 12-Oct-21 10-Mar-22 12-Oct-21 28-Oct-21 28-Oct-21 06-May-22 06-May-22 07-Jan-22	123 3 190 66 135 11 12 26 234 100 206 60 21 168 101	31-May-21		04-Jul-21, Boiler Feed Water Systems (-  19-Jul-21, Leachate collection  04-Jul-21, Flue Gas Treatment System (-  16-Au  13-Aug-2
EP_SP_66_12-V EP_SP_66_12- 05-3580 05-3580 05-3600 05-3610 05-3620 05-3620 05-3640 05-3650 05-3790 05-3800 05-3810 05-3820 05-3825(3) 05-3830 EP_SP_66_12- 05-3840	WP6A-M42.05.02.03.51 Mechanical works design (2.3.16)  WP6A-M42.05.02.03.5.1 Plant and Equipment  Weighbridge Systems  Waste Crane and Grapple System  Mechanical Shredder  Incineration System (9 Packages)  Heat Recovery Boiler (8 Packages)  Boiler Feed Water Systems (4 Packages)  Ash cranes  Leachate collection and treatment  Flue Gas Treatment System (12 Packages)  Boiler ash and APC residue handing and solidification  Steam Turbine Generator (STG) and Pressure Reducing and Desuperheating Station (PRDS)  Air cooled condenser  Closed Circuit Cooling Water System  Compressed Air Plants  WP6A-M42.05.02.03.5.2 Process Pipeworks (Incl. Ductworks) and Valves  Process island (furnace-boiler-FGC)	1093 1093 270 105 105 105 105 105 105 105 105 105 10	1108 1108 270 356 452 1096 1003 720 298 293 629 434 380 435 478 1078	75.3% 75.3% 0% 0% 0% 0% 0% 0% 66.67% 52.38% 66.67% 25.71% 28.57% 0% 0% 81.32% 21.9%	0% 5% 5% 5% 5% 5% 65% 45% 5% 5% 5% 5% 5%	270 270 270 270 270 270 113 218 258 258 35 187 50 Start On or After 35 78 Start On or After 75 130 173 240 105 82	13-Feb-19A 13-Feb-19 A 31-May-21 30-Sep-20 A 09-Oct-20 A 13-Feb-19 A 17-May-19 A 16-Jul-19 A 09-Feb-21 A 30-Sep-20 A 15-Oct-19 A 09-Jun-20 A 30-Jul-20 A 30-Jul-20 A 13-Feb-19 A 16-May-19 A 16-May-19 A	24-Feb-22 24-Feb-22 24-Feb-22 20-Sep-21 03-Jan-22 12-Feb-22 12-Feb-22 04-Jul-21 03-Dec-21 19-Jul-21 16-Aug-21 13-Aug-21 19-Nov-21 25-Jan-22 12-Sep-21 20-Aug-21	03-Jun-21 03-Jun-21 07-Dec-21 05-Aug-21 11-Jun-21 12-Jun-21 20-Jan-22 08-Sep-21 23-Dec-21 21-Jun-21 21-Jun-21 21-Jun-21 21-Jun-21 21-Jun-21 15-Nov-21 13-Oct-21	27-Jun-22 27-Feb-22 29-Mar-22 10-Mar-22 27-Jun-22 23-Feb-22 16-Jul-21 10-Mar-22 12-Oct-21 10-Mar-22 12-Oct-21 28-Oct-21 28-Oct-21 06-May-22 06-May-22 07-Jan-22 02-Jan-22	123 3 190 66 135 11 12 26 234 100 206 60 21 168 101 117 135	31-May-21		04-Jul-21, Boiler Feed Water Systems (4)  19-Jul-21, Leachate collectio  04-Jul-21, Flue Gas Treatment System (1)  16-Aug-2  13-Aug-2
EP_SP_66_12-V EP_SP_66_12- 05-3580 05-3590 05-3690 05-3610 05-3620 05-3630 05-3640 05-3650 05-3650 05-3890 05-3810 05-3820 05-3825(3) 05-3830 EP_SP_66_12- 05-3840 05-3840	WP6A-M42.05.02.03.5.1 Mechanical works design (2.3.16)  WP9A-M42.05.02.03.5.1 Plant and Equipment  Weighbridge Systems  Waste Crane and Grapple System  Mechanical Shredder  Incineration System (9 Packages)  Heat Recovery Boiler (8 Packages)  Boiler Feed Water Systems (4 Packages)  Ash cranes  Leachate collection and treatment  Flue Gas Treatment System (12 Packages)  Boiler ash and APC residue handing and solidification  Steam Turbine Generator (STG) and Pressure Reducing and Desuperheating Station (PRDS)  Air cooled condenser  Closed Circuit Cooling Water System  Compressed Air Plants  WP6A-M42.05.02.03.5.2 Process Pipeworks (Incl. Ductworks) and Valves  Process island (furnace-boiler-FGC)  Pipebridge A (Between Process island & Turbine Hall)	1093 1093 270 105 105 105 105 105 105 105 10	1108 1108 270 356 452 1096 1003 720 298 293 629 434 380 435 478 1078 851 828	75.3% 75.3% 0% 0% 0% 0% 0% 0% 66.67% 52.38% 66.67% 28.57% 0% 0% 81.32% 21.9% 28.57%	0% 5% 5% 5% 5% 5% 65% 45% 5% 5% 5% 5% 5%	270 270 270 270 270 270 113 218 258 258 35 187 50 Start On or After 35 8 Start On or After 75 130 173 240 105 82 75	13-Feb-19A 13-Feb-19 A 31-May-21 30-Sep-20 A 09-Oct-20 A 13-Feb-19 A 17-May-19 A 16-Jul-19 A 09-Feb-21 A 30-Sep-20 A 30-Jul-20 A 30-Jul-20 A 30-Jul-20 A 30-Jul-20 A 13-Feb-19 A 16-May-19 A 28-Aug-20 A	24-Feb-22 24-Feb-22 24-Feb-22 20-Sep-21 03-Jan-22 12-Feb-22 12-Feb-22 04-Jul-21 19-Jul-21 04-Jul-21 16-Aug-21 13-Aug-21 19-Nov-21 25-Jan-22 12-Sep-21 20-Aug-21 13-Aug-21	03-Jun-21 03-Jun-21 07-Dec-21 05-Aug-21 11-Jun-21 12-Jun-21 26-Jun-21 20-Jan-22 08-Sep-21 23-Dec-21 30-Jul-21 21-Jun-21 15-Nov-21 09-Sep-21 13-Oct-21 22-Jun-21	27-Jun-22 27-Feb-22 29-Mar-22 10-Mar-22 27-Jun-22 23-Feb-22 16-Jul-21 10-Mar-22 12-Oct-21 10-Mar-22 12-Oct-21 28-Oct-21 28-Oct-21 06-May-22 06-May-22 07-Jan-22 02-Jan-22 04-Sep-21	123 3 190 66 135 11 12 26 234 100 206 60 21 168 101 117 135	31-May-21		04-Jul-21, Boiler Feed Water Systems (
EP_SP_66_12-V EP_SP_66_12- 05-3580 05-3590 05-3690 05-3610 05-3620 05-3620 05-3640 05-3650 05-3650 05-3790 05-3810 05-3820 05-3825(3) 05-3830 EP_SP_66_12- 05-3840	WP6A-M42.05.02.03.51 Mechanical works design (2.3.16)  WP6A-M42.05.02.03.5.1 Plant and Equipment  Weighbridge Systems  Waste Crane and Grapple System  Mechanical Shredder  Incineration System (9 Packages)  Heat Recovery Boiler (8 Packages)  Boiler Feed Water Systems (4 Packages)  Ash cranes  Leachate collection and treatment  Flue Gas Treatment System (12 Packages)  Boiler ash and APC residue handing and solidification  Steam Turbine Generator (STG) and Pressure Reducing and Desuperheating Station (PRDS)  Air cooled condenser  Closed Circuit Cooling Water System  Compressed Air Plants  WP6A-M42.05.02.03.5.2 Process Pipeworks (Incl. Ductworks) and Valves  Process island (furnace-boiler-FGC)	1093 1093 270 105 105 105 105 105 105 105 10	1108 1108 270 356 452 1096 1003 720 298 293 629 434 380 435 478 1078	75.3% 75.3% 0% 0% 0% 0% 0% 0% 66.67% 52.38% 66.67% 25.71% 28.57% 0% 0% 81.32% 21.9%	0% 5% 5% 5% 5% 5% 65% 45% 5% 5% 5% 5% 5%	270 270 270 270 270 270 113 218 258 258 35 187 50 Start On or After 35 78 Start On or After 75 130 173 240 105 82	13-Feb-19A 13-Feb-19 A 31-May-21 30-Sep-20 A 09-Oct-20 A 13-Feb-19 A 17-May-19 A 16-Jul-19 A 09-Feb-21 A 30-Sep-20 A 15-Oct-19 A 09-Jun-20 A 30-Jul-20 A 30-Jul-20 A 13-Feb-19 A 16-May-19 A 16-May-19 A	24-Feb-22 24-Feb-22 24-Feb-22 20-Sep-21 03-Jan-22 12-Feb-22 12-Feb-22 04-Jul-21 19-Jul-21 04-Jul-21 16-Aug-21 13-Aug-21 19-Nov-21 25-Jan-22 12-Sep-21 20-Aug-21 13-Aug-21	03-Jun-21 03-Jun-21 07-Dec-21 05-Aug-21 11-Jun-21 12-Jun-21 20-Jan-22 08-Sep-21 23-Dec-21 21-Jun-21 21-Jun-21 21-Jun-21 21-Jun-21 21-Jun-21 15-Nov-21 13-Oct-21	27-Jun-22 27-Feb-22 29-Mar-22 10-Mar-22 27-Jun-22 23-Feb-22 16-Jul-21 10-Mar-22 12-Oct-21 10-Mar-22 12-Oct-21 28-Oct-21 28-Oct-21 06-May-22 06-May-22 07-Jan-22 02-Jan-22 04-Sep-21	123 3 190 66 135 11 12 26 234 100 206 60 21 168 101 117 135	31-May-21		04-Jul-21, Boiler Feed Water Systems (
EP_SP_66_12-V EP_SP_66_12- 05-3580 05-3590 05-3690 05-3610 05-3620 05-3630 05-3640 05-3650 05-3650 05-3890 05-3810 05-3820 05-3825(3) 05-3830 EP_SP_66_12- 05-3840 05-3840	WP6A-M42.05.02.03.5.1 Mechanical works design (2.3.16)  WP9A-M42.05.02.03.5.1 Plant and Equipment  Weighbridge Systems  Waste Crane and Grapple System  Mechanical Shredder  Incineration System (9 Packages)  Heat Recovery Boiler (8 Packages)  Boiler Feed Water Systems (4 Packages)  Ash cranes  Leachate collection and treatment  Flue Gas Treatment System (12 Packages)  Boiler ash and APC residue handing and solidification  Steam Turbine Generator (STG) and Pressure Reducing and Desuperheating Station (PRDS)  Air cooled condenser  Closed Circuit Cooling Water System  Compressed Air Plants  WP6A-M42.05.02.03.5.2 Process Pipeworks (Incl. Ductworks) and Valves  Process island (furnace-boiler-FGC)  Pipebridge A (Between Process island & Turbine Hall)	1093 1093 270 105 105 105 105 105 105 105 10	1108 1108 270 356 452 1096 1003 720 298 293 629 434 380 435 478 1078 851 828	75.3% 75.3% 0% 0% 0% 0% 0% 0% 66.67% 52.38% 66.67% 28.57% 0% 0% 81.32% 21.9% 28.57%	0% 5% 5% 5% 5% 5% 65% 45% 5% 5% 5% 5% 5%	270 270 270 270 270 270 113 218 258 258 35 187 50 Start On or After 35 8 Start On or After 75 130 173 240 105 82 75	13-Feb-19A 13-Feb-19 A 31-May-21 30-Sep-20 A 09-Oct-20 A 13-Feb-19 A 17-May-19 A 16-Jul-19 A 09-Feb-21 A 30-Sep-20 A 30-Jul-20 A 30-Jul-20 A 30-Jul-20 A 30-Jul-20 A 13-Feb-19 A 16-May-19 A 28-Aug-20 A	24-Feb-22 24-Feb-22 24-Feb-22 20-Sep-21 03-Jan-22 12-Feb-22 12-Feb-22 04-Jul-21 19-Jul-21 04-Jul-21 13-Aug-21 13-Aug-21 12-Sep-21 20-Aug-21 13-Aug-21	03-Jun-21 03-Jun-21 07-Dec-21 05-Aug-21 11-Jun-21 12-Jun-21 26-Jun-21 20-Jan-22 08-Sep-21 23-Dec-21 30-Jul-21 21-Jun-21 15-Nov-21 09-Sep-21 13-Oct-21 22-Jun-21	27-Jun-22 27-Feb-22 29-Mar-22 10-Mar-22 27-Jun-22 23-Feb-22 16-Jul-21 29-Dec-21 10-Mar-22 12-Oct-21 10-Mar-22 12-Oct-21 28-Oct-21 06-May-22 06-May-22 07-Jan-22 02-Jan-22 04-Sep-21 17-Dec-21	123 3 190 66 135 11 12 26 234 100 206 60 21 168 101 117 135	31-May-21		04-Jul-21, Boiler Feed Water Systems (
EP_SP_66_12-V EP_SP_66_12- 05-3580 05-3590 05-3600 05-3610 05-3620 05-3630 05-3640 05-3650 05-3790 05-3800 05-3810 05-3820 05-3825(3) 05-3830 EP_SP_66_12- 05-3840 05-3840 05-3840	WP6A-M42.05.02.03.5.1 Mechanical works design (2.3.16)  WP6A-M42.05.02.03.5.1 Plant and Equipment  Weighbridge Systems  Waste Crane and Grapple System  Mechanical Shredder  Incineration System (9 Packages)  Heat Recovery Boiler (8 Packages)  Boiler Feed Water Systems (4 Packages)  Ash cranes  Leachate collection and treatment  Flue Gas Treatment System (12 Packages)  Boiler ash and APC residue handling and solidification  Steam Turbine Generator (STG) and Pressure Reducing and Desuperheating Station (PRDS)  Air cooled condenser  Closed Circuit Cooling Water System  Compressed Air Plants  WP6A-M42.05.02.03.5.2 Process Pipeworks (Incl. Ductworks) and Valves  Process island (furnace-boiler-FGC)  Pipebridge A (Between Process island & Turbine Hall)  Compressed Air Plant area	1093 1093 270 105 105 105 105 105 105 105 10	1108 1108 270 356 452 1096 1003 720 298 293 629 434 380 435 478 1078 851 828 351	75.3% 75.3% 0% 0% 0% 0% 0% 0% 66.67% 52.38% 66.67% 28.57% 0% 0% 81.32% 21.9% 28.57% 0%	0% 5% 5% 5% 5% 5% 65% 45% 45% 5% 5% 5% 5% 5% 5%	270 270 270 270 270 270 113 218 258 258 35 187 50 Start On or After 35 78 Start On or After 75 130 173 240 105 82 75 105	13-Feb-19A 13-Feb-19 A 31-May-21 30-Sep-20 A 09-Oct-20 A 13-Feb-19 A 17-May-19 A 16-Jul-19 A 09-Feb-21 A 30-Sep-20 A 15-Oct-19 A 30-Jul-20 A 30-Jul-20 A 30-Jul-20 A 13-Feb-19 A 16-May-19 A 28-Aug-20 A 28-Aug-20 A	24-Feb-22 24-Feb-22 24-Feb-22 20-Sep-21 03-Jan-22 12-Feb-22 12-Feb-22 04-Jul-21 19-Jul-21 04-Jul-21 13-Aug-21 13-Aug-21 19-Nov-21 25-Jan-22 12-Sep-21 20-Aug-21 13-Aug-21 13-Aug-21	03-Jun-21 03-Jun-21 07-Dec-21 05-Aug-21 11-Jun-21 12-Jun-21 26-Jun-22 20-Jun-22 23-Dec-21 23-Dun-21 21-Jun-21 15-Nov-21 09-Sep-21 13-Oct-21 22-Jun-21 04-Sep-21	27-Jun-22 27-Feb-22 29-Mar-22 10-Mar-22 27-Jun-22 23-Feb-22 16-Jul-21 29-Dec-21 10-Mar-22 12-Oct-21 10-Mar-22 12-Oct-21 28-Oct-21 06-May-22 06-May-22 07-Jan-22 04-Sep-21 17-Dec-21 12-Aug-21	123 3 190 66 135 11 12 26 234 100 206 60 21 168 101 117 135 22	31-May-21		04-Jul-21, Boiler Feed Water Systems ( 19-Jul-21, Leachate collectic 04-Jul-21, Flue Gas Treatment System ( 16-Au 13-Aug- 20 13-Aug-
EP_SP_66_12-V EP_SP_66_12- 05-3580 05-3590 05-3600 05-3610 05-3620 05-3630 05-3640 05-3650 05-3790 05-3800 05-3810 05-3820 05-3825(3) 05-3820 05-3825(3) 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820	WP6A-M42.05.02.03.5.1 Plant and Equipment  Weighbridge Systems  Waste Crane and Grapple System  Mechanical Shredder Incineration System (9 Packages) Heat Recovery Boiler (8 Packages) Boiler Feed Water Systems (4 Packages) Boiler Feed Water Systems (4 Packages) Ash cranes Leachate collection and treatment Flue Gas Treatment System (12 Packages) Boiler ash and APC residue handling and solidification Steam Turbine Generator (STG) and Pressure Reducing and Desuperheating Station (PRDS) Air cooled condenser Closed Circuit Cooling Water System Compressed Air Plants  WP6A-M42.05.02.03.5.2 Process Pipeworks (Incl. Ductworks) and Valves Process island (furnace-boiler-FGC) Pipebridge A (Between Process island & Turbine Hall) Compressed Air Plant area Pipebridge B (Between CCCW Area & Turbine Hall) Pipebridge C (Between Turbine Hall & ACC Equipment Yard)	1093 1093 270 105 105 105 105 105 105 105 10	1108 1108 270 356 452 1096 1003 720 298 293 629 434 380 435 478 1078 851 828 351 381 321	75.3% 75.3% 0% 0% 0% 0% 0% 0% 66.67% 0% 52.38% 66.67% 25.71% 0% 0% 81.32% 21.9% 28.57% 0% 57.14%	0% 5% 5% 5% 5% 5% 65% 45% 5% 5% 5% 5% 5% 5% 5% 5% 5%	270 270 270 270 270 270 113 218 228 258 35 187 50 Start On or After 35 78 Start On or After 75 130 173 240 105 82 75 105 45 75	13-Feb-19A 13-Feb-19 A 31-May-21 30-Sep-20 A 09-Oct-20 A 13-Feb-19 A 17-May-19 A 16-Jul-19 A 09-Feb-21 A 30-Sep-20 A 15-Oct-19 A 09-Jun-20 A 30-Jul-20 A 30-Jul-20 A 13-Feb-19 A 16-May-19 A 28-Aug-20 A 28-Aug-20 A 28-Aug-20 A	24-Feb-22 24-Feb-22 24-Feb-22 20-Sep-21 03-Jan-22 12-Feb-22 12-Feb-22 04-Jul-21 19-Jul-21 16-Aug-21 13-Aug-21 19-Nov-21 25-Jan-22 12-Sep-21 20-Aug-21 13-Aug-21 13-Aug-21 13-Aug-21 13-Aug-21	03-Jun-21 03-Jun-21 07-Dec-21 13-Oct-21 11-Jun-21 12-Jun-21 26-Jun-22 20-Sep-21 30-Jul-21 21-Jun-21 15-Nov-21 13-Oct-21 22-Jun-21 13-Oct-21 22-Jun-21 22-Jun-21 22-Jun-21	27-Jun-22 27-Feb-22 29-Mar-22 10-Mar-22 27-Jun-22 23-Feb-22 16-Jul-21 29-Dec-21 10-Mar-22 12-Oct-21 10-Mar-22 12-Oct-21 28-Oct-21 06-May-22 06-May-22 07-Jan-22 04-Sep-21 17-Dec-21 12-Aug-21 04-Sep-21	123 3 190 66 135 11 12 26 234 100 206 60 21 168 101 117 135 22 96 29 22	31-May-21		04-Jul-21, Boiler Feed Water Systems (
EP_SP_66_12-V EP_SP_66_12- 05-3580 05-3590 05-3610 05-3610 05-3620 05-3630 05-3640 05-3650 05-3690 05-3810 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820	WP6A-M42.05.02.03.5.1 Plant and Equipment Weighbridge Systems Waste Crane and Grapple System Mechanical Shredder Incineration System (9 Packages) Heat Recovery Boiler (8 Packages) Boiler Feed Water Systems (4 Packages) Boiler Feed Water Systems (4 Packages) Ash cranes Leachate collection and treatment Flue Gas Treatment System (12 Packages) Boiler ash and APC residue handling and solidification Steam Turbine Generator (STG) and Pressure Reducing and Desuperheating Station (PRDS) Air cooled condenser Closed Circuit Cooling Water System Compressed Air Plants WP6A-M42.05.02.03.5.2 Process Pipeworks (Incl. Ductworks) and Valves Process island (furnace-boiler-FGC) Pipebridge A (Between Process island & Turbine Hall) Compressed Air Plant area Pipebridge B (Between CCCW Area & Turbine Hall) Pipebridge C (Between Turbine Hall & ACC Equipment Yard) Turbine Hall	1093 1093 270 105 105 105 105 105 105 105 10	1108 1108 270 356 452 1096 1003 720 298 293 629 434 380 435 478 1078 851 828 351 381 321 351	75.3% 75.3% 0% 0% 0% 0% 0% 0% 66.67% 0% 52.38% 66.67% 25.71% 0% 0% 81.32% 21.9% 28.57% 0% 57.14% 28.57%	0% 5% 5% 5% 5% 5% 65% 45% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	270 270 270 270 270 270 270 113 218 228 258 35 187 50 Start On or After 35 78 Start On or After 75 130 173 240 105 82 75 105 45 75	13-Feb-19A 13-Feb-19A 31-May-21 30-Sep-20 A 09-Oct-20 A 13-Feb-19 A 17-May-19 A 16-Jul-19 A 09-Feb-21 A 30-Sep-20 A 15-Oct-19 A 09-Jun-20 A 30-Jul-20 A 30-Jul-20 A 30-Jul-20 A 28-Aug-20 A 28-Aug-20 A 28-Aug-20 A 28-Aug-20 A	24-Feb-22 24-Feb-22 24-Feb-22 20-Sep-21 03-Jan-22 12-Feb-22 12-Feb-22 04-Jul-21 19-Jul-21 16-Aug-21 13-Aug-21 19-Nov-21 25-Jan-22 12-Sep-21 13-Aug-21 13-Aug-21 13-Aug-21 13-Aug-21 13-Aug-21 13-Aug-21 13-Sep-21 14-Jul-21 13-Sep-21	03-Jun-21 03-Jun-21 07-Dec-21 13-Oct-21 11-Jun-21 12-Jun-21 26-Jun-22 20-Sep-21 21-Jun-21 21-Jun-21 15-Nov-21 13-Oct-21 22-Jun-21 13-Oct-21 22-Jun-21 22-Jun-21 22-Jun-21 22-Jun-21 23-Jun-21	27-Jun-22 27-Feb-22 29-Mar-22 10-Mar-22 27-Jun-22 23-Feb-22 16-Jul-21 29-Dec-21 10-Mar-22 12-Oct-21 10-Mar-22 12-Oct-21 28-Oct-21 06-May-22 07-Jan-22 04-Sep-21 17-Dec-21 12-Aug-21 04-Sep-21 07-Jan-22	123 3 190 66 135 11 12 26 234 100 206 60 21 168 101 117 135 22 96 29 22 117	31-May-21		04-Jul-21, Boiler Feed Water Systems (4  19-Jul-21, Leachate collectio  04-Jul-21, Flue Gas Treatment System (1  16-Aug-2  13-Aug-2  13-Aug-2  14-Jul-21, Pipebridge B (Betwee
EP_SP_66_12-V EP_SP_66_12- 05-3580 05-3590 05-3600 05-3610 05-3620 05-3630 05-3640 05-3650 05-3790 05-3800 05-3810 05-3820 05-3825(3) 05-3830 EP_SP_66_12- 05-3840 05-4350 05-4360 05-4370 05-4380 05-4950	WP6A-M42.05.02.03.5.1 Plant and Equipment Weighbridge Systems Waste Crane and Grapple System Mechanical Shredder Incineration System (9 Packages) Heat Recovery Boiler (8 Packages) Boiler Feed Water Systems (4 Packages) Boiler Feed Water Systems (4 Packages) Ash cranes Leachate collection and treatment Flue Gas Treatment System (12 Packages) Boiler ash and APC residue handling and solidification Steam Turbine Generator (STG) and Pressure Reducing and Desuperheating Station (PRDS) Air cooled condenser Closed Circuit Cooling Water System Compressed Air Plants  WP6A-M42.05.02.03.5.2 Process Pipeworks (Incl. Ductworks) and Valves Process island (furnace-boiler-FGC) Pipebridge A (Between Process island & Turbine Hall) Compressed Air Plant area Pipebridge B (Between Turbine Hall & ACC Equipment Yard) Turbine Hall ACC Equipment Yard	1093 1093 270 105 105 105 105 105 105 105 10	1108 1108 270 356 452 1096 1003 720 298 293 629 434 380 435 478 1078 851 828 351 381 321	75.3% 75.3% 0% 0% 0% 0% 0% 0% 66.67% 0% 52.38% 66.67% 25.71% 0% 0% 81.32% 21.9% 28.57% 0% 57.14% 28.57% 0%	0% 5% 5% 5% 5% 5% 65% 45% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	270 270 270 270 270 270 113 218 258 258 35 187 50 Start On or After 35 78 Start On or After 75 130 173 240 105 82 75 105 45 75 105	13-Feb-19A 13-Feb-19A 31-May-21 30-Sep-20 A 09-Oct-20 A 13-Feb-19 A 17-May-19 A 16-Jul-19 A 09-Feb-21 A 30-Sep-20 A 15-Oct-19 A 09-Jul-20 A 30-Jul-20 A 30-Jul-20 A 30-Jul-20 A 13-Feb-19 A 16-May-19 A 28-Aug-20 A 28-Aug-20 A 28-Aug-20 A 28-Aug-20 A 28-Aug-20 A	24-Feb-22 24-Feb-22 24-Feb-22 20-Sep-21 03-Jan-22 12-Feb-22 12-Feb-22 04-Jul-21 19-Jul-21 16-Aug-21 13-Aug-21 19-Voc-21 19-Voc-21 19-Voc-21 19-Voc-21 19-Voc-21 19-Voc-21 19-Voc-21 19-Voc-21 19-Voc-21 19-Voc-21 19-Voc-21 19-Voc-21 19-Voc-21 19-Voc-21 19-Voc-21 19-Voc-21 19-Voc-21 19-Voc-21 19-Voc-21 11-Sep-21 11-Sep-21 11-Sep-21 11-Sep-21	03-Jun-21 03-Jun-21 07-Dec-21 13-Oct-21 11-Jun-21 12-Jun-21 26-Jun-22 20-Sep-21 21-Jun-21 21-Jun-21 21-Jun-21 22-Jun-21 13-Oct-21 22-Jun-21 22-Jun-21 22-Jun-21 22-Jun-21 23-Jun-21 24-Sep-21 25-Sep-21 04-Sep-21	27-Jun-22 27-Feb-22 29-Mar-22 10-Mar-22 27-Jun-22 23-Feb-22 16-Jul-21 29-Dec-21 10-Mar-22 12-Oct-21 10-Mar-22 12-Oct-21 28-Oct-21 06-May-22 07-Jan-22 04-Sep-21 17-Dec-21 12-Aug-21 04-Sep-21 07-Jan-22 17-Dec-21	123 3 190 66 135 11 12 26 234 100 206 60 21 168 101 117 135 22 96 29 22 117 96	31-May-21		04-Jul-21, Boiler Feed Water Systems (4)  19-Jul-21, Leachate collection  04-Jul-21, Flue Gas Treatment System (1)  16-Aug-2  13-Aug-2  14-Jul-21, Pipebridge B (Betwee
EP_SP_66_12-V EP_SP_66_12- 05-3580 05-3590 05-3600 05-3610 05-3620 05-3630 05-3640 05-3650 05-3790 05-3810 05-3820 05-3825(3) 05-3820 05-3825(3) 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820	WP6A-M42.05.02.03.5.1 Plant and Equipment Weighbridge Systems Waste Crane and Grapple System Mechanical Shredder Incineration System (9 Packages) Heat Recovery Boiler (8 Packages) Boiler Feed Water Systems (4 Packages) Ash cranes Leachate collection and treatment Flue Gas Treatment System (12 Packages) Boiler ash and APC residue handling and solidification Steam Turbine Generator (STG) and Pressure Reducing and Desuperheating Station (PRDS) Air cooled condenser Closed Circuit Cooling Water System Compressed Air Plants  WP6A-M42.05.02.03.5.2 Process Pipeworks (Incl. Ductworks) and Valves Process island (furnace-boiler-FGC) Pipebridge A (Between Process island & Turbine Hall) Compressed Air Plantarea Pipebridge B (Between CCCW Area & Turbine Hall) Turbine Hall ACC Equipment Yard CCCW Area	1093 1093 270 105 105 105 105 105 105 105 10	1108 1108 270 356 452 1096 1003 720 298 293 629 434 380 435 478 1078 851 828 351 381 321	75.3% 75.3% 0% 0% 0% 0% 0% 0% 66.67% 0% 52.38% 66.67% 0% 25.71% 28.57% 0% 81.32% 21.9% 28.57% 0% 57.14% 28.57% 0% 0% 0%	0% 5% 5% 5% 5% 5% 65% 45% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	270 270 270 270 270 270 113 218 258 258 35 187 50 Start On or After 35 78 Start On or After 75 130 173 240 105 82 75 105 45 75 105	13-Feb-19A 13-Feb-19A 31-May-21 30-Sep-20 A 09-Oct-20 A 13-Feb-19 A 17-May-19 A 16-Jul-19 A 09-Feb-21 A 30-Sep-20 A 15-Oct-19 A 09-Jul-20 A 30-Jul-20 A 30-Jul-20 A 30-Jul-20 A 13-Feb-19 A 16-May-19 A 28-Aug-20 A 28-Aug-20 A 28-Aug-20 A 28-Aug-20 A 28-Aug-20 A 28-Aug-20 A 28-Aug-20 A	24-Feb-22 24-Feb-22 24-Feb-22 20-Sep-21 03-Jan-22 12-Feb-22 12-Feb-22 04-Jul-21 03-Dec-21 19-Jul-21 04-Jul-21 13-Aug-21 17-Oct-21 19-Nov-21 25-Jan-22 12-Sep-21 13-Aug-21 13-Aug-21 13-Aug-21 13-Aug-21 13-Sep-21 14-Jul-21 13-Sep-21 14-Jul-21 13-Sep-21 14-Sep-21 12-Sep-21	03-Jun-21 03-Jun-21 07-Dec-21 13-Oct-21 11-Jun-21 12-Jun-21 26-Jun-22 20-Sep-21 30-Jul-21 21-Jun-21 15-Nov-21 13-Oct-21 22-Jun-21 22-Jun-21 22-Jun-21 22-Jun-21 22-Jun-21 23-Dec-21 24-Sep-21 25-Sep-21 04-Sep-21	27-Jun-22 27-Feb-22 29-Mar-22 10-Mar-22 27-Jun-22 23-Feb-22 16-Jul-21 29-Dec-21 10-Mar-22 12-Oct-21 10-Mar-22 12-Oct-21 28-Oct-21 06-May-22 07-Jan-22 04-Sep-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21	123 3 190 66 135 11 12 26 234 100 206 60 21 168 101 117 135 22 96 29 22 117 96	31-May-21		04-Jul-21, Boiler Feed Water Systems (4  19-Jul-21, Leachate collectio  04-Jul-21, Flue Gas Treatment System (1  16-Aug-2  13-Aug-2  14-Jul-21, Pipebridge B (Betwee
EP_SP_66_12-V EP_SP_66_12- 05-3580 05-3590 05-3600 05-3610 05-3620 05-3620 05-3640 05-3650 05-3790 05-3800 05-3810 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820	WP6A-M42.05.02.03.51 Mechanical works design (2.3.16)  WP6A-M42.05.02.03.5.1 Plant and Equipment  Weighbridge Systems  Waste Crane and Grapple System  Mechanical Shredder Incineration System (9 Packages) Heat Recovery Boiler (8 Packages) Boiler Feed Water Systems (4 Packages)  Ash cranes Leachate collection and treatment Flue Gas Treatment System (12 Packages) Boiler ash and APC residue handing and solidification Steam Turbine Generator (STG) and Pressure Reducing and Desuperheating Station (PRDS) Air cooled condenser Closed Circuit Cooling Water System Compressed Air Plants  WP6A-M42.05.02.03.5.2 Process Pipeworks (Incl. Ductworks) and Valves Process island (furnace-boiler-FGC) Pipebridge A (Between Process island & Turbine Hall) Compressed Air Plant area Pipebridge B (Between CCCW Area & Turbine Hall) Pipebridge C (Between Turbine Hall & ACC Equipment Yard) Turbine Hall ACC Equipment Yard CCCW Area	1093 1093 270 105 105 105 105 105 105 105 10	1108 1108 270 356 452 1096 1003 720 298 293 629 434 380 435 478 1078 851 828 351 381 381 381 381	75.3% 75.3% 0% 0% 0% 0% 0% 0% 66.67% 0% 52.38% 66.67% 25.71% 0% 68.32% 28.57% 0% 57.14% 28.57% 0% 67.14% 28.57% 0% 67.14% 28.57% 0% 68.05%	0% 5% 5% 5% 5% 5% 5% 65% 45% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5	270 270 270 270 270 270 113 218 258 258 35 187 50 Start On or After 35 78 Start On or After 75 130 173 240 105 82 75 105 45 75 105 105 105 105 105 105	13-Feb-19A 13-Feb-19A 31-May-21 30-Sep-20 A 09-Oct-20 A 13-Feb-19 A 17-May-19 A 16-Jul-19 A 09-Feb-21 A 30-Sep-20 A 15-Oct-19 A 09-Jul-20 A 30-Jul-20 A 30-Jul-20 A 30-Jul-20 A 16-May-19 A 16-May-19 A 28-Aug-20 A 28-Aug-20 A 28-Aug-20 A 28-Aug-20 A 28-Aug-20 A 28-Aug-20 A	24-Feb-22 24-Feb-22 24-Feb-22 24-Feb-22 20-Sep-21 03-Jan-22 12-Feb-22 12-Feb-22 04-Jul-21 03-Dec-21 19-Jul-21 16-Aug-21 13-Aug-21 17-Oct-21 19-Vov-21 25-Jan-22 12-Sep-21 14-Jul-21 13-Aug-21 12-Sep-21 14-Jul-21 13-Aug-21	03-Jun-21 03-Jun-21 07-Dec-21 13-Oct-21 11-Jun-21 12-Jun-21 26-Jun-21 20-Jan-22 30-Jul-21 21-Jun-21 15-Nov-21 15-Nov-21 13-Oct-21 22-Jun-21 22-Jun-21 22-Jun-21 23-Jun-21 24-Sep-21 25-Sep-21 04-Sep-21 25-Sep-21 04-Sep-21	27-Jun-22 27-Feb-22 29-Mar-22 10-Mar-22 27-Jun-22 23-Feb-22 16-Jul-21 29-Dec-21 10-Mar-22 12-Oct-21 10-Mar-22 12-Oct-21 28-Oct-21 28-Oct-21 28-Oct-21 29-Dar-22 06-May-22 07-Jan-22 04-Sep-21 17-Dec-21 12-Aug-21 04-Sep-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21	123 3 190 66 135 11 12 26 234 100 206 60 21 168 101 117 135 22 96 29 22 117 96 96 434	31-May-21		04-Jul-21, Boiler Feed Water Systems (4  19-Jul-21, Leachate collection  04-Jul-21, Flue Gas Treatment System (1:  16-Aug-2  13-Aug-2  113-Aug-2  114-Jul-21, Pipebridge B (Betweer
EP_SP_66_12-V EP_SP_66_12- 05-3580 05-3590 05-3600 05-3610 05-3620 05-3630 05-3640 05-3650 05-3790 05-3810 05-3820 05-3825(3) 05-3820 05-3825(3) 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820 05-3820	WP6A-M42.05.02.03.5.1 Plant and Equipment Weighbridge Systems Waste Crane and Grapple System Mechanical Shredder Incineration System (9 Packages) Heat Recovery Boiler (8 Packages) Boiler Feed Water Systems (4 Packages) Ash cranes Leachate collection and treatment Flue Gas Treatment System (12 Packages) Boiler ash and APC residue handling and solidification Steam Turbine Generator (STG) and Pressure Reducing and Desuperheating Station (PRDS) Air cooled condenser Closed Circuit Cooling Water System Compressed Air Plants  WP6A-M42.05.02.03.5.2 Process Pipeworks (Incl. Ductworks) and Valves Process island (furnace-boiler-FGC) Pipebridge A (Between Process island & Turbine Hall) Compressed Air Plantarea Pipebridge B (Between CCCW Area & Turbine Hall) Turbine Hall ACC Equipment Yard CCCW Area	1093 1093 270 105 105 105 105 105 105 105 10	1108 1108 270 356 452 1096 1003 720 298 293 629 434 380 435 478 1078 851 828 351 381 321	75.3% 75.3% 0% 0% 0% 0% 0% 0% 66.67% 0% 52.38% 66.67% 0% 25.71% 28.57% 0% 81.32% 21.9% 28.57% 0% 57.14% 28.57% 0% 0% 0%	0% 5% 5% 5% 5% 5% 65% 45% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	270 270 270 270 270 270 113 218 258 258 35 187 50 Start On or After 35 78 Start On or After 75 130 173 240 105 82 75 105 45 75 105	13-Feb-19A 13-Feb-19A 31-May-21 30-Sep-20 A 09-Oct-20 A 13-Feb-19 A 17-May-19 A 16-Jul-19 A 09-Feb-21 A 30-Sep-20 A 15-Oct-19 A 09-Jul-20 A 30-Jul-20 A 30-Jul-20 A 30-Jul-20 A 13-Feb-19 A 16-May-19 A 28-Aug-20 A 28-Aug-20 A 28-Aug-20 A 28-Aug-20 A 28-Aug-20 A 28-Aug-20 A 28-Aug-20 A	24-Feb-22 24-Feb-22 24-Feb-22 24-Feb-22 20-Sep-21 03-Jan-22 12-Feb-22 12-Feb-22 04-Jul-21 03-Dec-21 19-Jul-21 16-Aug-21 13-Aug-21 17-Oct-21 19-Vov-21 25-Jan-22 12-Sep-21 14-Jul-21 13-Aug-21 12-Sep-21 14-Jul-21 13-Aug-21	03-Jun-21 03-Jun-21 07-Dec-21 13-Oct-21 11-Jun-21 12-Jun-21 26-Jun-21 20-Jan-22 30-Jul-21 21-Jun-21 15-Nov-21 15-Nov-21 13-Oct-21 22-Jun-21 22-Jun-21 22-Jun-21 23-Jun-21 24-Sep-21 25-Sep-21 04-Sep-21 25-Sep-21 04-Sep-21	27-Jun-22 27-Feb-22 29-Mar-22 10-Mar-22 27-Jun-22 23-Feb-22 16-Jul-21 29-Dec-21 10-Mar-22 12-Oct-21 10-Mar-22 12-Oct-21 28-Oct-21 06-May-22 07-Jan-22 04-Sep-21 17-Dec-21 17-Dec-21 17-Dec-21 17-Dec-21	123 3 190 66 135 11 12 26 234 100 206 60 21 168 101 117 135 22 96 29 22 117 96	31-May-21		04-Jul-21, Boiler Feed Water Systems (4  19-Jul-21, Leachate collection  04-Jul-21, Flue Gas Treatment System (1  16-Aug  13-Aug-2  13-Aug-2  14-Jul-21, Pipebridge B (Between

3-Month Rolling Programme (May 2021)

Remaining Work Actual Work

◆ Actual Milestone Critical Milestone

Critical Remaining Work

Milestone

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Contract No. EP/S

Contract No. EP/SP/66/12	環境保護署
Contract No. EP/SP/66/12 Integrated Waste Management Facilities, Phase 1	Environmental Protection Departme

	Activity Name	Planned	At Completion	Duration %	Activity %	Remaining Primary Constraint	Current Start	Current Finish	Late Start	Late Finish To	graleo vvasle Mana, tal Float   M42 Remarks	gernerit i aci	illies, i riase	2021	
	Party Nano	Duration	Duration	Complete	Complete	Duration	Our ent otal t	Our teller illisin	Late Otal t	Late I III SII	WHZ FORMUNG	May	Jun	Jul	Aug
■ 05-3560	Pipebridge (Between CCCW Area & Turbine Hall)	105	321	57.14%	5%	45	28-Aug-20 A	14-Jul-21	29-Jun-21	12-Aug-21	29	42	43	14-Jul-21	Pipebridge (Between
05-3570	Pipebridge (Between Turbine Hall & ACC Equipment Yard)	105	351	28.57%	5%	75	28-Aug-20 A		22-Jun-21	-	22			-i	13-A
	P6A-M42.05.02.03.5.4 Equipment and piping insulation	136	252	22.79%	070	105	04-Jan-21 A	12-Sep-21	30-Jun-21	17-Dec-21	96				
05-4500	Incineration System	105	105	0%	0%	105 Start On or After	31-May-21*	12-Sep-21	30-Jun-21	12-Oct-21	30	31-May-21*			
05-4510	Heat Recovery Boiler	105	105	0%	0%	105 Start On or After	31-May-21*	12-Sep-21	30-Jun-21	12-Oct-21	30	31-May-21*			
	·						-	· ·							
05-4520	Boiler Feed Water Systems	105	105	0%	0%	105 Start On or After	31-May-21*	12-Sep-21	04-Sep-21	17-Dec-21	96	31-May-21*			
05-4530	Flue Gas Treatment System	105	105	0%	0%	105 Start On or After	31-May-21*	12-Sep-21	30-Jun-21	12-Oct-21	30	31-May-21*			
05-4540	Boiler ash and APC residue handling and solidification	105	105	0%	0%	105 Start On or After	31-May-21*	12-Sep-21	04-Sep-21	17-Dec-21	96	31-May-21*		.1	
05-4550	Steam Turbine Generator (STG) and Pressure Reducing and Desuperheating Station (PRDS)	105	252	0%	45%	105	04-Jan-21 A	12-Sep-21	30-Jun-21	12-Oct-21	30			1	
05-4560	Air cooled condenser	105	252	0%	45%	105	04-Jan-21 A	12-Sep-21	04-Sep-21	17-Dec-21	96				
05-4570	Closed Circuit Cooling Water System	105	105	0%	0%	105	31-May-21	12-Sep-21	16-Jul-21	28-Oct-21	46	31-May-21			
	P6A-M42.05.02.03.6 Fire services installation design (2.3.17)	228	918	40.35%		136	10-Apr-19 A	13-Oct-21	01-Jul-21	13-Oct-21	0			- <del></del>	
05-3660	Fire Systems	90	814	64.44%	5%	32	10-Apr-19 A	01-Jul-21	12-Sep-21		104			01-Jul-21, Fire Syste	ms. Fire Systems
05-3670	Fire engineering	60	60	0%	0%	60	19-Jul-21	17-Sep-21	15-Aug-21		26			19-Jul-21	
05-3680	FS schematics	105	105	0%	0%	105	01-Jul-21	13-Oct-21	01-Jul-21	13-Oct-21	0		01-Jul-21		
					0 /8									-	
	P6A-M42.05.02.03.7 Building services design (excluding fire services installation design) (2.3.1		225	0%	00/	225	31-May-21	10-Jan-22	11-Jun-21	30-Apr-22	110	04 14 04		<u> </u>	
05-3690	Electrical Services and Lighting (7 Packages)	135	135	0%	0%	135	31-May-21	12-Oct-21	26-Jul-21	07-Dec-21	56	31-May-21		- <del> </del>	
05-3700	MVAC (6 Packages)	135	135	0%	0%	135	14-Aug-21	26-Dec-21	24-Oct-21	07-Mar-22	71			1	14-Aug-21
05-3710	Odour Control	135	135	0%	0%	135	14-Aug-21	26-Dec-21	24-Oct-21	07-Mar-22	71			1	14-Aug-21
05-3720	Plumbing (7 Packages)	135	135	0%	0%	135 Start On or After	10-Jun-21*	22-Oct-21	26-Jun-21	07-Nov-21	16	10-Jı	un-21*		
05-3730	Drainage (7 Packages)	135	135	0%	0%	135	10-Jun-21	22-Oct-21	26-Jun-21	07-Nov-21	16		Jun-21		
05-3740	ELV (7 Packages)	135	135	0%	0%	135	26-Jul-21	07-Dec-21	26-Jul-21	07-Dec-21	0			26-Jul-21 <b>=</b>	
05-3750	Lifts and Escalators	135	135	0%	0%	135	15-Aug-21	27-Dec-21	04-Oct-21	15-Feb-22	50				15-Aug-21
05-3770	Building Management System (BMS) ELV (7 Packages)	135	135	0%	0%	135	29-Aug-21	10-Jan-22	17-Dec-21		110				29-Au
								_		· ·				15 Jul 21*	25-Au
05-3780	Vehicle & Container Wash System	105	105	0%	0%	105 Start On	15-Jul-21*	27-Oct-21	15-Jul-21	27-Oct-21	0 Revised duration 135 to 105				
05-3780-1 (5a)	Process CCTV System	135	135	0%	0%	135 Start On	15-Jul-21*	26-Nov-21	15-Jul-21	26-Nov-21	0			15-Jul-21*	
05-3780-1(M20)	Water Cannon System	60	60	0%	0%	60	03-Jun-21	01-Aug-21	11-Jun-21	09-Aug-21	8	03-Jun-21			01-Aug-21, V
EP_SP_66_12-WP	6A-M42.05.02.04 DDA Me chanical Treatment Plant Building (2.4)	198	198	0%		198	12-Jun-21	26-Dec-21	26-Jun-21	19-Aug-22	236				
05-5160	Architectural Design (2.4.25)	105	105	0%	0%	105 Start On or After	30-Jul-21*	11-Nov-21	07-May-22	19-Aug-22	281			30-Jul-21*	
05-5210	Fire services installation design (2.4.17)	105	105	0%	0%	105	01-Jul-21	13-Oct-21	01-Jul-21	13-Oct-21	0		01-Jul-21		
EP SP 66 12-WF	P6A-M42.05.02.04.7 Building services design (excluding fire services installation design) (2.4.1	198	198	0%		198	12-Jun-21	26-Dec-21	26-Jun-21	07-Mar-22	71				
05-3850	LV and Emergency Power Distribution Design	135	135	0%	0%	135 Start On or After	12-Jun-21*	24-Oct-21	26-Jul-21	07-Dec-21	44	12-	Jun-21*		
05-3860	MVAC	135	135	0%	0%	135	14-Aug-21	26-Dec-21	24-Oct-21	07-Mar-22	71				14-Aug-21
05-3870	Odour Control	135	135	0%	0%	135	14-Aug-21	26-Dec-21	24-Oct-21	07-Mar-22	71				14-Aug-21
							-							<u>.i</u> !	14-Aug-21
05-3880	Plumbing	135	135	0%	0%	135	26-Jun-21	07-Nov-21	26-Jun-21	07-Nov-21	0		26-Jun-21		
05-3890	Drainage	135	135	0%	0%	135	26-Jun-21	07-Nov-21	26-Jun-21	07-Nov-21	0		26-Jun-21 💻	.i	
05-3900	Lighting and small power	135	135	0%	0%	135	26-Jul-21	07-Dec-21	26-Jul-21	07-Dec-21	0			26-Jul-21 💳	
EP_SP_66_12-WP	6A-M42.05.02.05 DDA Wastewater Treatment Plant (2.5)	284	284	0%		284	31-May-21	10-Mar-22	04-Jun-21	09-Aug-22	152				
05-3920	Architectural Design (2.5.25)	75	75	0%	0%	75 Start On or After	30-Jul-21*	12-Oct-21	08-Aug-21	21-Oct-21	9			30-Jul-21* l	
05-3930	Foundation design (2.5.13)	135	135	0%	0%	135	31-May-21	12-Oct-21	05-Sep-21	17-Jan-22	97	31-May-21			
05-3950	Electrical and instrumentation works design (2.5.15)	284	284	0%	0%	284	31-May-21	10-Mar-22	30-Oct-21	09-Aug-22	152	31-May-21			
05-3960	Mechanical works design (2.5.16) (2 Packages)	264	264	0%	0%	264	31-May-21	18-Feb-22	04-Jun-21	22-Feb-22	4	31-May-21			
		105	105	0%	0%	105 Start On or After	-				0	31-Way-21	01-Jul-21*		
05-3970	Fire services installation design (2.5.17) (2 Packages)				0%		01-Jul-21*	13-Oct-21	01-Jul-21	13-Oct-21	-		01-Jul-21		
EP_SP_66_12-WP	P6A-M42.05.02.05.7 Building services design (excluding fire services installation design) (2.5.1		185	0%		185	10-Jun-21		26-Jun-21		86			- <u>i</u>	
	LV and Emergency Power Distribution Design for IWMF Waste Water Treatment Plant	135	135	0%	0%	135	30-Jun-21	11-Nov-21		07-Dec-21	26		30-Jun-21		
05-3990	MVAC	120	120	0%	0%	120	14-Aug-21	11-Dec-21	08-Nov-21	07-Mar-22	86				14-Aug-21
05-4010	Plumbing	135	135	0%	0%	135	26-Jun-21	07-Nov-21	26-Jun-21	07-Nov-21	0		26-Jun-21		
05-4020	Drainage	135	135	0%	0%	135	10-Jun-21	22-Oct-21	26-Jun-21	07-Nov-21	16		Jun-21	1	
05-4030	ELV	135	135	0%	0%	135	26-Jul-21		26-Jul-21		0			26-Jul-21 <b>=</b>	
	6A-M42.05.02.06 DDA Water Treatment Plant Building (2.6)	210	210	0%		210	31-May-21		26-Jun-21		202			-	
05-4050	Architectural Design (2.6.25)	105	105	0%	0%	105	30-Jul-21	11-Nov-21	08-Mar-22		221			30-Jul-21 l	
												21 May 21			
05-4060	Foundation design (2.6.13)	180	180	0%	0%	180	31-May-21	26-Nov-21	18-Jan-22		232	31-May-21	04 1-1-04		
05-4100	Fire services installation design (2.6.17)	105	105	0%	0%		01-Jul-21	13-Oct-21	01-Jul-21		0		01-Jul-21	-	
	P6A-M42.05.02.06.7 Building services design (excluding fire services installation design) (2.6.1		184	0%		184	26-Jun-21				71			-  <u></u>	
05-4110	Electrical Services and Lighting	135	135	0%	0%		26-Jul-21	07-Dec-21	26-Jul-21		0			26-Jul-21 💻	
05-4120	MVAC	135	135	0%	0%	135	14-Aug-21	26-Dec-21	24-Oct-21	07-Mar-22	71			1	14-Aua-21 🚃
05-4140	Plumbing	135	135	0%	0%	135	26-Jun-21	07-Nov-21	26-Jun-21	07-Nov-21	0		26-Jun-21	:	
05-4150	Drainage	135	135	0%	0%	135	26-Jun-21	07-Nov-21	26-Jun-21	07-Nov-21	0		26-Jun-21		
05-4160	ELV	135	135	0%	0%	135	26-Jul-21	07-Dec-21	26-Jul-21		0			26-Jul-21	
	6A-M42.05.02.07 DDA Administration Building (2.7)	200	200	0%		200	10-Jun-21		26-Jun-21		181				
05-4170	Architectural Design (2.7.21)	105	105	0%	0%		30-Jul-21*	11-Nov-21		25-Jun-22	226			30-Jul-21* l	
	Electrical and instrumentation works design (2.7.13)	105	105	0%	0%	105 Start On	18-Jul-21*	30-Oct-21	18-Jul-21		0 Revised durtation 135 to 105			18-Jul-21*	
	Fire services installation design (2.7.14)	105	105	0%	0%		01-Jul-21	13-Oct-21	01-Jul-21		0		01-Jul-21		
05-4210		000	200	0%		200	10-Jun-21	26-Dec-21	26-Jun-21	07-Mar-22	71				
	P6A-M42.05.02.07.6 Building services design (excluding fire services installation design) (2.7.1								_						
05-4210		135	135	0%	0%	135	26-Jul-21	07-Dec-21	26-Jul-21	07-Dec-21	0			26-Jul-21	
05-4210 EP_SP_66_12-WP	P6A-M42.05.02.07.6 Building services design (excluding fire services installation design) (2.7.1			0% 0%	0% 0%	135 135	26-Jul-21 14-Aug-21	07-Dec-21 26-Dec-21	26-Jul-21 24-Oct-21		0 71			26-Jul-21 💻	14-Aug-21

3-Month Rolling Programme (May 2021)

Remaining Work Actual Work

Actual Milestone Critical Milestone

Critical Remaining Work

Milestone

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Contract No. EP/SP/66/12

12	eP	環境保護署
1	Ш	Environmental Protection Departm

KEPPEL SEGMERS - ZMEN	Activity Name	Planned	At Completion	Duration %	Activity % Complete	Remaining Primary Constraint	Current Start	Current Finish	Late Start Late Finish	egrated Waste Mana Total Float M42 Remarks		202	21	
		Duration	Duration	Complete	Complete	Duration					May 42	Jun 43	Jul 44	Aug 45
05-4260	Drainage	135	135	0%	0%	135	26-Jun-21	07-Nov-21	26-Jun-21 07-Nov-21	0		26-Jun-21		
05-4270	ELV	135	135	0%	0%	135	16-Jul-21	27-Nov-21	26-Jul-21 07-Dec-21	10			16-Jul-21	
05-4280	Lifts and Escalators	135	135	0%	0%	135 Start On	30-Jun-21*	11-Nov-21	30-Jun-21 11-Nov-21	0		30-Jun-21*		
EP_SP_66_12-WP6 05-4290	A-M42.05.02.08 DDA IVMF Substation (2.8) Architectural Design (2.8.25)	307 105	659 105	34.85% 0%	0%	105 Start On or After	27-Feb-20 A 31-May-21*	16-Dec-21 12-Sep-21	01-Jun-21 21-Jul-22 08-Jan-22 22-Apr-22	217	31-May-21*			
05-4300	Foundation design (2.8.13)	200	200	0%	0%	200	31-May-21	16-Dec-21	02-Sep-21 20-Mar-22	94	31-May-21			
05-4310	Structural design (2.8.14)	195	654	0%	5%	195	27-Feb-20 A	11-Dec-21	08-Jan-22 21-Jul-22	222	31-May-21			
05-4320	Electrical and instrumentation works design (2.8.15)	105	105	0%	0%	105	12-Jun-21	24-Sep-21	14-Jun-21 26-Sep-21	2 Revised durtation 135 to 105	12-0	Jun-21		
05-4340	Fire services installation design (2.8.17)	135	135	0%	0%	135	01-Jun-21	13-Oct-21	01-Jun-21 13-Oct-21	0	01-Jun-21			
EP_SP_66_12-WP	6A-M42.05.02.08.7 Building services design (excluding fire services installation design) (2.8.1	135	135	0%		135	31-May-21	12-Oct-21	26-Jun-21 30-Apr-22	200				
05-4990	Electrical Services and Lighting	135	135	0%	0%	135	31-May-21	12-Oct-21	26-Jul-21 07-Dec-21	56	31-May-21			
05-5000	MVAC	135	135	0%	0%	135	31-May-21	12-Oct-21	24-Oct-21 07-Mar-22	146	31-May-21			
05-5010	Plumbing	135	135 135	0%	0%	135	31-May-21	12-Oct-21	26-Jun-21 07-Nov-21	26	31-May-21			
05-5020 05-5030	Drainage ELV	135 135	135	0% 0%	0% 0%	135 135	31-May-21 31-May-21	12-Oct-21 12-Oct-21	26-Jun-21 07-Nov-21 26-Jul-21 07-Dec-21	56	31-May-21 31-May-21			
	Building Management System (BMS)	135	135	0%	0%	135	31-May-21	12-Oct-21	17-Dec-21 30-Apr-22	200	31-May-21			
	6A-M42.05.02.1 DDA Chimney	135	135	0%	070	135	28-Aug-21	09-Jan-22	20-Dec-21 03-May-22	114	OT MAY 21			
	6A-M42.05.02.1.1 Building services design (excluding fire services installation design)	135	135	0%		135	28-Aug-21	09-Jan-22	20-Dec-21 03-May-22	114				
05-6060(5a)	Building Management System (BMS)	135	135	0%	0%	135	28-Aug-21	09-Jan-22	20-Dec-21 03-May-22	114				28-Aug-
	SA-M42.05.02.10 DDA Roads and Utilities (210)	270	501	16.67%		225	28-Aug-20 A		07-Jun-21 19-Dec-23	708				
EP_SP_66_12-WP 05-4470	6A-M42.05.02.10.1 Permanent road works layout on the Artificial Island (2.10.13)	135	135 135	0%	0%	135	31-May-21	12-Oct-21	25-Mar-23 19-Dec-23	798	21 May 21	<u></u>		
05-4470	Roads and hardstandings layout  Road signage and markings	135 135	135	0% 0%	0%	135 135	31-May-21 31-May-21	12-Oct-21 12-Oct-21	25-Mar-23 06-Aug-23 07-Aug-23 19-Dec-23	663 798	31-May-21 31-May-21			
	16A-M42.05.02.10.2 Sewerage design on the Artificial Island (2.10.14)	135	135	0%	0 /0	135	31-May-21	12-Oct-21	26-Jun-21 10-Sep-22	333	JI-IVIQY-ZI			
05-4430	Foul Sewerage	135	135	0%	0%	135	31-May-21	12-Oct-21	26-Jun-21 07-Nov-21	26	31-May-21			
05-4440	Contaminated Sewerage	135	135	0%	0%	135	31-May-21	12-Oct-21	29-Apr-22 10-Sep-22	333	31-May-21	<del>i</del>		
EP_SP_66_12-WP	6A-M42.05.02.10.3 Drainage system design on the Artificial Island (2.10.15)	135	135	0%		135	31-May-21	12-Oct-21	26-Jun-21 14-Nov-21	33				
05-5310	Surface water Drainage System	135	135	0%	0%	135	31-May-21	12-Oct-21	26-Jun-21 07-Nov-21	26	31-May-21			
05-5320	First Flush Drainage System concept	135	135	0%	0%	135	31-May-21	12-Oct-21	03-Jul-21 14-Nov-21	33	31-May-21			
	6A-M42.05.02.10.4 Water supply system design on the Artificial Island (2.10.16)	221	221	0%	00/	221	31-May-21	06-Jan-22	26-Jun-21 21-Aug-22	228	04 14 04			
05-5250	Potable Water Distribution System	135 135	135 135	0% 0%	0% 0%	135 135	31-May-21	12-Oct-21	09-Apr-22 21-Aug-22 09-Apr-22 21-Aug-22	313	31-May-21			
05-5270	Recycled Water System  Irrigation System	135	135	0%	0%	135	31-May-21 31-May-21	12-Oct-21	09-Apr-22 21-Aug-22 26-Jun-21 07-Nov-21	26	31-May-21 <b>3</b> 1-May-21 <b>3</b> 1-May-21 <b>3</b>	<u></u>		
05-5280	Rainwater harvesting System	135	135	0%	0%	135	26-Jun-21	07-Nov-21	26-Jun-21 07-Nov-21	0	31-1viay-21 L	26-Jun-21		
05-5300-1(M24)	E&M system for seawater intake and brine discharge (2.10.04.07)	90	90	0%	0%	90	31-May-21	28-Aug-21	17-Oct-21 14-Jan-22	139	31-May-21			
05-5300-2(M24)	Building Services system for seawater intake and brine discharge (2.10.04.09)	90	90	0%	0%	90	30-Jul-21	27-Oct-21	10-Aug-21 07-Nov-21	11			30-Jul-21 [	
05-5300-3(5a)	Chemical scrubber system for odour control (2.10.16.10)	135	135	0%	0%	135	24-Aug-21	06-Jan-22	24-Oct-21 07-Mar-22	61				24-Aug-21
EP_SP_66_12-WP	6A-M42.05.02.10.6 Design of telecommunication and other utilities (2.10.18)	180	180	0%		180	31-May-21	26-Nov-21	02-Sep-21 06-Aug-23	618				
05-3400 (M21)	Computerised Maintenance Management System (CMMS)	105	105	0%	0%	105	14-Aug-21	26-Nov-21	16-Jan-22 30-Apr-22	155			1.	4-Aug-21
05-3410 (M21)	Information and Document Management System (IDMS)	105	105	0%	0%	105	14-Aug-21	26-Nov-21	16-Jan-22 30-Apr-22	155				4-Aug-21
05-4590	Site Lighting Concept / Schematics	135	135	0%	0%	135	31-May-21	12-Oct-21	25-Mar-23 06-Aug-23	663	31-May-21			
05-4600	Lightning Protection System concept / schematics	135	135	0%	0%	135	31-May-21	12-Oct-21	02-Sep-21 14-Jan-22	94	31-May-21			
	6A-M42.05.02.10.7 Utility ducts/Pipebridges design (2.10.26)  Design of Pipe / Utilities Trenches concept	270 135	501 135	16.67% 0%	0%	135			07-Jun-21 24-Dec-22 12-Aug-22 24-Dec-22	348				29-Aug
05-5050	Sitewide Utilities Trenches Design	135	135	0%	0%	135	29-Aug-21	10-Jan-22	12-Aug-22 24-Dec-22	348				29-Au
	P6A-M42.05.02.10.7.3 Layout Plan for Pipe Bridge Network	135	366	33.33%	070	90	28-Aug-20 A		07-Jun-21 03-Nov-21	67				25-74
A1090	Pipebridge A	135	324	33.33%	5%	90	09-Oct-20 A	-	06-Aug-21 03-Nov-21	67 Extracted Activity				
A1100	Pipebridge B	135	366	33.33%	5%	90	28-Aug-20 A		07-Jul-21 04-Oct-21	37 Extracted Activity				
<b>A</b> 1110	Pipebridge C	135	366	33.33%	5%	90	28-Aug-20 A	28-Aug-21	07-Jun-21 04-Sep-21	7 Extracted Activity		<del>-</del>		
	P6A-M42.05.02.10.7.1 Foundaion Plan for Pipe Bridge Network	135	366	33.33%		90	28-Aug-20 A		09-Oct-21 20-Apr-22	235				
A1120	Pipebridge A	135	324	33.33%	5%	90	09-Oct-20 A		09-Oct-21 06-Jan-22	131 Extracted Activity				
A1130	Pipebridge B	135	366	33.33%	5%	90	28-Aug-20 A		13-Jan-22 12-Apr-22	227 Extracted Activity				
A1140	Pipebridge C P6A-M42.05.02.10.7.2 Structure Plan for Pipe Bridge Network	135	366	33.33%	5%	90	28-Aug-20 A		21-Jan-22 20-Apr-22 07-Jun-21 03-Nov-21	235 Extracted Activity 67				
<b>EP_SP_66_12-W</b> F <b></b> A1150	P6A-M42.05.02.10.7.2 Structure Plan for Pipe Bridge Network  Pipebridge A	135 135	366 324	33.33% 33.33%	5%	90	28-Aug-20 A 09-Oct-20 A	-	07-Jun-21 03-Nov-21 06-Aug-21 03-Nov-21	67 Extracted Activity				
A1160	Pipebridge B	135	366	33.33%	5%	90	28-Aug-20 A		07-Jul-21 04-Oct-21	37 Extracted Activity				
A1170	Pipebridge C	135	366	33.33%	5%	90	28-Aug-20 A		07-Jun-21 04-Sep-21	7 Extracted Activity				
	6A-M42.05.02.11 DDA Architectural, Finishes and Land scaping Works (2.11)	141	141	0%		141	30-Jun-21		04-Jul-21 25-Apr-22	159				
	6A-M42.05.02.11.1 External and internal finishes design for Incineration Plant Buildings (2.11		137	0%		137	30-Jun-21	13-Nov-21	05-Sep-21 25-Apr-22	163				
05-4670	External and internal finishes design for Incineration Plant Building (13 Packages)	137	137	0%	0%	137 Start On or After	30-Jun-21*	13-Nov-21	26-Oct-21 11-Mar-22	118		30-Jun-21*		
05-4690	External and internal finishes design for Turbine Hall Building (7 Packages)	137	137	0%	0%	137 Start On or After	30-Jun-21*	13-Nov-21	05-Sep-21 19-Jan-22	67		30-Jun-21* 📮		
05-4700	External and internal finishes design for Air Compressor Building (7 Packages)	137	137	0%	0%	137 Start On or After	30-Jun-21*	13-Nov-21	06-Dec-21 21-Apr-22	159		30-Jun-21*		
05-4720	External and internal finishes design for Reception Pavilion (10 Packages)	137	137	0%	0%	137 Start On or After	30-Jun-21*	13-Nov-21	10-Dec-21 25-Apr-22	163		30-Jun-21* 📮		
	6A-M42.05.02.11.6 External and internal finishes design for the IWMF Substation (211.20)	137	137	0%	20/	137	04-Jul-21	17-Nov-21	04-Jul-21 17-Nov-21	0		04 141 24		
05-4770	External and internal finishes design for the IWMF Substation 6A-M42.05.02.12 DDA Testing and Commissioning (2.12)	137	137	72 199/	0%	137	04-Jul-21	17-Nov-21	04-Jul-21 17-Nov-21	79		04-Jul-21		
ED CD 66 10 MD6		647	949	72.18%		100	23-Apr-19 A	20-110V-21	12-Oct-21 12-Feb-22	78	<b>.</b>			
EP_SP_66_12-WP6 05-4810-1(5a)	Factory Acceptance Testing plan (2.12.09.02-07) (8 Packages)	60	829	0%	5%	60	23-Apr-19 A	29-Jul-21	15-Dec-21 12-Feb-22	198				29-Jul-21, Facto

3-Month Rolling Programme (May 2021)

Remaining Work

Actual Work

Critical Remaining Work

Milestone

◆ Actual Milestone

◆ Critical Milestone

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

REPFEL SEGMENS - ZIE	Activity Name	Planned	At Completion	Duration %	Activity %	Remaining Primary Constraint	Current Start	Current Finish	Late Start	Late Finish	Total Float M42 Remarks	1	202	4
		Duration	Duration	Complete	Complete	Duration						May	Jun	Jul Aug
ED SD 66 12-W	P6A-M42.05.02.13 DDA Transportation Facilities for the Operation (2.13)	608	608	0%		608	14-Aug-21	13-Apr-23	06-Feb-23	13-Dec-24	610	42	43	44 45
05-4850	Design of vehicles for MSW and Ash and Residues delivery (2.13.05)	493	493	0%	0%	493	14-Aug-21	19-Dec-22	06-Feb-23		541		<del>-</del>	14-Aug-21
05-4860	Design of marine vessels for the use of the Employer and visitors (2.13.06)	608	608	0%	0%	608	14-Aug-21	13-Apr-23	16-Apr-23		610	<del></del>		14-Aug-21
		1398	1612	61.8%	070	534	18-Jun-18 A	15-Nov-22	31-May-21		0			14 / (dg 21
	WP6A-M42.06 Procurement of Major Equipment													
	P6A-M42.06.1 Off-site Fabrication of Incineration Modules	1398	1601	61.8%		534	29-Jun-18 A	15-Nov-22	31-May-21		0			
	P6A-M42.06.1.25 Material Procurement	911	1247	80.24%		180	29-Jun-18 A	26-Nov-21	23-Jun-21		23			
06-1000-1(1)	Mechanical Equipment Material Submission and Approval	180	1147	50%	50%	90	09-Jul-18 A	28-Aug-21	23-Jun-21	· ·	23			
06-1000-2(1)	Pipe Material Submission and Approval	180	670	50%	92%	90	29-Oct-19 A	28-Aug-21	23-Jun-21	20-Sep-21	23			
06-1000-3(1)	Electrical and Instrumentation Material Submission and Approval	180	670	50%	50%	90	29-Oct-19 A	28-Aug-21	23-Jun-21	20-Sep-21	23			
06-1010-1(1)	Mechanical Equipment Procurement (incl. FAT)	90	1247	0%	45%	180	29-Jun-18 A	26-Nov-21	23-Jun-21	19-Dec-21	23			
06-1010-2(1)	Pipe Material Procurement (incl. FAT)	90	760	0%	45%	90	29-Oct-19 A	26-Nov-21	21-Sep-21	19-Dec-21	23			
06-1010-3(1)	Electircal and Instrumentation Material Procurement (Incl. FAT)	90	760	0%	45%	90	29-Oct-19 A	26-Nov-21	21-Sep-21	19-Dec-21	23			
EP_SP_66_12-WF	P6A-M42.06.1.26 Fabrication of Module (TPU)	667	707	32.29%		452	18-Sep-20 A	25-Aug-22	31-May-21	25-Aug-22	0			
EP_SP_66_12-W	/P6A-M42.06.1.26.1 Process Island Furnace Boiler Liner 1	442	604	21.04%		349	18-Sep-20 A	14-May-22	31-May-21	14-May-22	0		į	
06-2010 (6)	Process Island Furnace Boiler Liner 1 Structure Cutting, Painting, Pre-assembly & Erection	390	548	24.87%	24.87%	293	18-Sep-20 A	19-Mar-22	31-May-21	19-Mar-22	0			
06-2020 (6)	Process Island Furnace Boiler Liner 1 Equipment Fabrication	300	341	52%	52%	144	15-Nov-20 A	21-Oct-21	31-May-21	21-Oct-21	0			
06-2030 (6)	Process Island Furnace Boiler Liner 1 Equipment Installation	264	264	0%	0%	264	05-Jun-21	23-Feb-22	05-Jun-21	23-Feb-22	0	05-Jun-	21	
06-2040 (6)	Process Island Furnace Boiler Liner 1 Piping Fabrication & installation	350	459	9%	9%	319	10-Feb-21 A	14-May-22	30-Jun-21	14-May-22	0			
. ,	/P6A-M42.06.1.26.2 Process Island Furnace Boiler Liner 2	667	559	47.98%		347	31-Oct-20 A	12-May-22	31-May-21	12-May-22	0			
06-2100 (6)	Process Island Furnace Boiler Liner 2 Structure Cutting, Painting, Pre-assembly & Erection	390	519	21.28%	21.28%	307	31-Oct-20 A	02-Apr-22	31-May-21	02-Apr-22	0			
06-2110 (6)	Process Island Furnace Boiler Liner 2 Equipment Fabrication	300	354	47.67%	47.67%	157	15-Nov-20 A	03-Nov-21	31-May-21	03-Nov-21	0			
06-2120 (6)	Process Island Furnace Boiler Liner 2 Equipment Installation	256	256	0%	0%	256	11-Jun-21	21-Feb-22	11-Jun-21	21-Feb-22	0	11	-Jun-21	
06-2130 (6)	Process Island Furnace Boiler Liner 2 Piping Fabrication & installation	350	430	13.71%	13.71%	302	09-Mar-21 A	_	15-Jul-21	12-May-22	0			
. ,	/P6A-M42.06.1.26.3 Process Island Furnace Boiler Liner 3	627	523	46.57%	10.7 170	335	24-Nov-20 A	-	31-May-21		0			
06-2190 (6)	Process Island Furnace Boiler Liner 3 Structure Cutting, Painting, Pre-assembly & Erection	390	510	17.44%	17.44%	322	24-Nov-20 A	17-Apr-22	31-May-21		0			
06-2200 (6)	Process Island Furnace Boiler Liner 3 Equipment Fabrication	300	355	40.67%	40.67%	178	05-Dec-20 A	<u> </u>	16-Jul-21	09-Jan-22	46			
06-2210 (6)	Process Island Furnace Boiler Liner 3 Equipment Installation	218	218	0%	0%	218	10-Aug-21	15-Mar-22	25-Sep-21		46			10-Aug-21
	Process Island Furnace Boiler Liner 3 Piping Fabrication & installation	350	419	9%	9%	319	08-Mar-21 A	_	16-Jun-21	-	0		<del></del>	10-Aug-21
06-2220 (6)	1 1				970						0		<del>-</del>	
	Process Island Furness Bailer Lines 4 Structure Cutting Process Island Furness Bailer Lines 4	390	555 515	38.92% 12.05%	12.05%	383	10-Dec-20 A 10-Dec-20 A		31-May-21		0			
06-2280 (6)	Process Island Furnace Boiler Liner 4 Structure Cutting, Painting, Pre-assembly & Erection								31-May-21					
06-2290 (6)	Process Island Furnace Boiler Liner 4 Equipment Fabrication	300	393	25%	25%	225	14-Dec-20 A		20-Jul-21	01-Mar-22	50			
06-2300 (6)	Process Island Furnace Boiler Liner 4 Equipment Installation	225	225	0%	0%	225	17-Aug-21	29-Mar-22	06-Oct-21	18-May-22	50		<u>.</u>	17-Aug-21
06-2310 (6)	Process Island Furnace Boiler Liner 4 Piping Fabrication & installation	350	465	41.43%	41.43%	205	10-Mar-21 A		25-Nov-21		0			
	VP6A-M42.06.1.26.5 Process Island Furnace Boiler Liner 5	537	594	21.42%		422	10-Dec-20 A		31-May-21	26-Jul-22	0			
06-2370 (6)	Process Island Furnace Boiler Liner 5 Structure Cutting, Painting, Pre-assembly & Erection	390	554	2.05%	2.05%	382	10-Dec-20 A		31-May-21	16-Jun-22	0			
06-2380 (6)	Process Island Furnace Boiler Liner 5 Equipment Fabrication	300	407	20.33%	20.33%	239	14-Dec-20 A		09-Aug-21		70			
06-2400 (6)	Process Island Furnace Boiler Liner 5 Piping Fabrication & installation	290	483	6.9%	6.9%	270	31-Mar-21 A	26-Jul-22	30-Oct-21	26-Jul-22	0			
	/P6A-M42.06.1.26.6 Process Island Furnace Boiler Liner 6	597	609	24.36%		452	25-Dec-20 A			25-Aug-22	0			
06-2460 (6)	Process Island Furnace Boiler Liner 6 Structure Cutting, Painting, Pre-assembly & Erection	390	529	0%	0%	412	03-Feb-21 A	16-Jul-22	31-May-21		0			
06-2470 (6)	Process Island Furnace Boiler Liner 6 Equipment Fabrication	300	466	0%	0%	309	25-Dec-20 A	04-Apr-22	19-Aug-21	23-Jun-22	80			
06-2490 (6)	Process Island Furnace Boiler Liner 6 Piping Fabrication & installation	320	521	0%	0%	320	23-Mar-21 A	25-Aug-22	10-Oct-21	25-Aug-22	0			
P_SP_66_12-WF	P6A-M42.06.1.7 Fabrication of Module (FGC)	626	638	14.7%		534	16-Feb-21 A	15-Nov-22	31-May-21	15-Nov-22	0			
EP_SP_66_12-W	/P6A-M42.06.1.7.1 Process Island FGC Liner 1	500	505	18.4%		408	23-Feb-21 A	12-Jul-22	31-May-21		0			
06-2000 (6)	Process Island FGC Liner 1 Structure Cutting, Painting, Pre-assembly & Erection	460	369	40.87%	40.87%	272	23-Feb-21 A	26-Feb-22	31-May-21	26-Feb-22	0			
06-2550 (6)	Process Island FGC Liner 1 Equipment Fabrication	300	267	23.67%	23.67%	229	23-Apr-21 A	14-Jan-22	20-Jul-21	05-Mar-22	50			
06-2560 (6)	Process Island FGC Liner 1 Equipment Installation	229	229	0%	0%	229	19-Jul-21	04-Mar-22	07-Sep-21	23-Apr-22	50			19-Jul-21
06-2570 (6)	Process Island FGC Liner 1 Piping Fabrication & installation	391	391	0%	0%	391	17-Jun-21	12-Jul-22	17-Jun-21	12-Jul-22	0		17-Jun-21	
P_SP_66_12-W	/P6A-M42.06.1.7.2 Process Island FGC Liner 2	502	514	18.33%		410	16-Feb-21 A	14-Jul-22	31-May-21	14-Jul-22	0			
06-2630 (6)	Process Island FGC Liner 2 Structure Cutting, Painting, Pre-assembly & Erection	460	384	39.13%	39.13%	280	16-Feb-21 A	06-Mar-22	31-May-21	06-Mar-22	0			
06-2640 (6)	Process Island FGC Liner 2 Equipment Fabrication	300	284	18%	18%	246	23-Apr-21 A	31-Jan-22	21-Jul-21	23-Mar-22	51			
06-2650 (6)	Process Island FGC Liner 2 Equipment Installation	223	223	0%	0%	223	26-Jul-21	05-Mar-22	15-Sep-21	25-Apr-22	51	1		26-Jul-21
06-2660 (6)	Process Island FGC Liner 2 Piping Fabrication & installation	410	410	0%	0%	410	31-May-21	14-Jul-22	31-May-21	· ·	0	31-May-21		
	/P6A-M42.06.1.7.3 Process Island FGC Liner 3	582	593	15.81%		490	17-Feb-21 A		31-May-21		0	<u> </u>		
06-2720 (6)	Process Island FGC Liner 3 Structure Cutting, Painting, Pre-assembly & Erection	460	415	32.17%	32.17%	312	17-Feb-21 A		31-May-21		0			
06-2730 (6)	Process Island FGC Liner 3 Equipment Fabrication	300	287	8.33%	8.33%	275	19-May-21 A	· ·	30-Jul-21	· ·	60	9-May-21 A		
6-2750 (6)	Process Island FGC Liner 3 Piping Fabrication & installation	426	426	0%	0%	426	31-May-21	30-Jul-22	31-May-21	+	0	31-May-21		
6-2760 (6)	Process Island FGC Liner 3 Electircal & Instrumentation Fabrication & installation	460	460	0%	0%	460	30-Jun-21	02-Oct-22		02-Oct-22	0	Ji-iviay-21	30-Jun-21	
. ,	/P6A-M42.06.1.7.4 Process Island FGC Liner 4	528	573	5.87%	0 /0	497	16-Mar-21 A		31-May-21		0			
P_SP_66_12-W 06-2810 (6)	Process Island FGC Liner 4 Structure Cutting, Painting, Pre-assembly & Erection	460	428	23.48%	23.48%	352		17-May-22	<del></del>		0		<u></u>	
. ,	* * *											01 May 01 A		
06-2820 (6)	Process Island FGC Liner 4 Equipment Fabrication	300	301	3%	3%	291	21-May-21 A				40	21-May-21 A	<del>-</del>	
06-2840 (6)	Process Island FGC Liner 4 Piping Fabrication & installation	422	422	0%	0%	422	31-May-21	26-Jul-22	31-May-21		0	31-May-21		
06-2850 (6)	Process Island FGC Liner 4 Electircal & Instrumentation Fabrication & installation	460	460	0%	0%	460	07-Jul-21	09-Oct-22	07-Jul-21	09-Oct-22	0		07-Jul-2	21
	/P6A-M42.06.1.7.5 Process Island FGC Liner 5	538	524	5.76%		507	14-May-21 A		31-May-21		0		1	
06-2900 (6)	Process Island FGC Liner 5 Structure Cutting, Painting, Pre-assembly & Erection	460	389	16.96%	16.96%	382	24-May-21 A		31-May-21		0	A, 24-May-21 A		
06-2910 (6)	Process Island FGC Liner 5 Equipment Fabrication	300	314	1%	1%	297	14-May-21 A	23-Mar-22	30-Jun-21	22-Apr-22	30	ıy-21 A		
00 20.0 (0)		100	460	0%	0%	460	02 Jun 21	04-Sep-22	02-Jun-21	04-Sep-22	0	02-Jun-21		
06-2930 (6)	Process Island FGC Liner 5 Piping Fabrication & installation	460	400	0 70	0 /0	400	02-Jun-21	04-36p-22	02-Juli-21	04-06p-22	<u> </u>			



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

REPFELSEGMENS - ZML	IN BUAJOINT VENTURE	D	110	5	A 11: 11 A/	D	D	10	The state of the s		regrated viable in	anagement Facilities, Phase T
	Activity Name	Planned Duration	At Completion Duration	Duration % Complete	Activity % Complete	Remaining Duration	Primary Constraint Current Start	Current Finish	Late Start	Late Finish	Total Float M42 Remarks	May Jun Jul Ai
EP SP 66 12-WF	P6A-M42.06.1.7.6 Process Island FGC Liner 6	534	551	0%		534	14-May-21 A	15-Nov-22	31-May-21	15-Nov-22	0	42 43 44 4
06-2990 (6)	Process Island FGC Liner 6 Structure Cutting, Painting, Pre-assembly & Erection	460	459	1.74%	1.74%	452	24-May-21 A	25-Aug-22	31-May-21	25-Aug-22	0	A, 24-May-21 A
06-3000 (6)	Process Island FGC Liner 6 Equipment Fabrication	300	385	0%	0%	368	14-May-21 A	02-Jun-22	18-Jul-21	20-Jul-22	48	y-21A
06-3020 (6)	Process Island FGC Liner 6 Piping Fabrication & installation	460	460	0%	0%	460	29-Jun-21	01-Oct-22	29-Jun-21	01-Oct-22	0	29-Jun-21
06-3030 (6)	Process Island FGC Liner 6 Electircal & Instrumentation Fabrication & installation	460	460	0%	0%	460	13-Aug-21	15-Nov-22	13-Aug-21	15-Nov-22	0	13-Aug-21 ■
P_SP_66_12-WP	P6A-M42.06.2 Off-site Fabrication of Turbine Modules	618	1423	44.17%		345	18-Jun-18 A	10-May-22	31-May-21	01-Aug-22	83	
EP_SP_66_12-WP	6A-M42.06.2.1 Material Procurement	546	1345	51.1%		267	18-Jun-18 A	21-Feb-22	31-May-21	21-Feb-22	0	
06-1050-2(1)	Pipe Material Submission and Approval	90	90	0%	0%	90	15-Jun-21	12-Sep-21	10-Oct-21	07-Jan-22	117	15-Jun-21
06-1050-3(1)	Electircal and Instrumentation Material Submission and Approval	90	90	0%	0%	90	31-May-21	28-Aug-21	24-Nov-21		177	31-May-21
06-1060-1(1)	Mechanical Equipment Procurement (Incl. FAT)	380	1255	53.42%	53.42%	177	18-Jun-18 A	23-Nov-21	31-May-21	23-Nov-21	0	
06-1060-2(1)	Pipe Material Procurement (Incl. FAT)	180	612	0%	0%	184	29-Mar-20 A	30-Nov-21	08-Jul-21	07-Jan-22	38	
06-1060-3(1)	Electrical and Instrumentation Material Procurement (Incl. FAT)	365	695	26.85%	26.85%	267			31-May-21		0	
	P6A-M42.06.2.2 Fabrication of Module (Power Island)	376	408			345		<del></del>	31-May-21		83	
. – – – –	P6A-M42.06.2.2.1 Turbine Module 1	300	330	11%	00.440/	267	29-Mar-21 A		31-May-21		0	
06-1070-1(1)	Turbine Module 1 - Structure Cutting, Painting, Pre-assembly & Erection	285	285	22.11%	22.11%	222	29-Mar-21 A		31-May-21		0	
06-1070-2(1)	Turbine Module 1 - Equipment Fabrication	300	300	11%	11%	267	28-Apr-21 A		31-May-21		0	
06-1070-3(1)	Turbine Module 1 - Equipment Installation	300	300	11%	11%	267	28-Apr-21 A		31-May-21		0	
	P6A-M42.06.2.2.2 Turbine Module 2  Turbine Module 2 - Structure Cutting, Painting, Pre-assembly & Erection	345 300	345 300	0% 0%	0%	345 300	31-May-21 31-May-21	10-May-22 26-Mar-22	07-Aug-21 07-Aug-21		68	31-May-21
06-1070-1(1)10		300	300	0%	0%	300	15-Jul-21	10-May-22	21-Sep-21		68	15-Jul-21
	Turbine Module 2 - Equipment Installation	300	300	0%	0%	300	15-Jul-21	10-May-22	21-Sep-21		68	15-Jul-21
	P6A-M42.06.2.2.3 Turbine Module 3	345	345	0%	υ%	345		-	21-Sep-21 22-Aug-21		83	15-Jul-21
		300	300	0%	0%	300	31-May-21	26-Mar-22	22-Aug-21 22-Aug-21		83	31-May-21
. , ,		300	300	0%	0%	300	15-Jul-21	10-May-22	06-Oct-21		83	15-Jul-21
. ,	• • • • • • • • • • • • • • • • • • • •	300	300	0%	0%	300	15-Jul-21	10-May-22	06-Oct-21		83	15-Jul-21
	P6A-M42.06.3 Procurement for ACC Units	200	170	46%	0,0	108	30-Mar-21 A	15-Sep-21	31-May-21		0	70 Stal 21
-1110	Material & Equipment Procurement	200	170	46%	46%	108	30-Mar-21 A	15-Sep-21	31-May-21	15-Sep-21	0	
	P6A-M42.06.5 Procurement for WWTP Equipment	180	180	0%	1070	180	31-May-21	26-Nov-21	17-Aug-21		78	
-1190-3(1)	Electircal and Instrumentation Material Submission and Approval	180	180	0%	0%	180	31-May-21	26-Nov-21	17-Aug-21		78	31-May-21
. ,	P6A-M42.06.7 Procurement for HV Transformers and Associated Equipment	550	1020	38.55%	0,0	338	19-Jul-19 A		24-Sep-21		116	or may 21
	26A-M42.06.7.1 Procurement of Transformers & EDG	550	1020	38.55%		338	19-Jul-19 A	03-May-22	24-Sep-21		116	
06-1280(1)	Procurement of Transfromers	550	1020	38.55%	38.55%	338	19-Jul-19 A	03-May-22	24-Sep-21		116	
. ,	P6A-M42.06.10 Procruement and Off-site Fabrication of Pipe Bridges (Incl. Pipings)	272	456	33.82%	00.0070	180	28-Aug-20 A	-	31-May-21		0	
6-1390(1)	Material Submission and Approval	90	348	20%	20%	72	28-Aug-20 A			27-Sep-21	48	10
6-1400	Material & Equipment Procurement	180	182	0%	0%	180	29-May-21 A	-	31-May-21		0	-21 A, 29-May-21 A
	WP6A-M42.08 Maritime Works	822	854	66.67%	0,0	274	29-Oct-19 A		31-May-21		188	217, 20 may 217
	P6A-M42.08.1 Marine Construction											
	PGA-M42.08.1.1 Phase I - Construction of Perimeter Seawalls	822 822	854 854	66.67%		274 274	29-Oct-19 A		31-May-21 31-May-21		188	
	P6A-M42.08.1.1.1 Phase I - Construction of Perimeter Seawaiis P6A-M42.08.1.1.1 Seawall and Berth at DCM Area	822	854			274		28-Feb-22	31-May-21		11	
<u> </u>	VP6A-M42.08.1.1.1.5 Seawall Structural Works	822	854	66.67%		274	29-Oct-19 A	28-Feb-22	31-May-21		11	
08-1115(3)	Caisson infill, Solid ballast, toe protection, precast concrete blocksetc Laying	250	670	64%	64%	90	29-Oct-19 A	28-Aug-21	28-Jun-21	25-Sep-21	28	
EP SP 66 12-V	WP6A-M42.08.1.1.1.5.1 Remain Works	274	393	0%		274	01-Feb-21 A	28-Feb-22	31-May-21	11-Mar-22	11	
08-1105-07 (6)	Precast Yard Setup	60	163	26.67%	26.67%	44	Start On or After 01-Feb-21 A	13-Jul-21	31-May-21	13-Jul-21	0	Precast Yard Setup, 13-J
08-1105-08 (6)	Prefabrication of Precast Beam and Slab for Seawall A	140	140	0%	0%	140	14-Jul-21	30-Nov-21	14-Jul-21	30-Nov-21	0	1¼-Jul-21
08-1105-09 (6)	Prefabrication of Precast Beam & Slab for Seawall B	140	140	0%	0%	140	14-Jul-21	30-Nov-21	25-Jul-21	11-Dec-21	11	1/4-Jul-21
08-1120	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level for Seawall A	220	220	0%	0%	220	24-Jul-21	28-Feb-22	24-Jul-21	28-Feb-22	0	24-Jul-21
08-1120-1(6)	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level for Seawall B	220	220	0%	0%	220	24-Jul-21	28-Feb-22	04-Aug-21	11-Mar-22	11	24-Jul-21
P_SP_66_12-WP	P6A-M42.08.1.2 Phase II - Reclamation, Breakwater and Berth Construction	469	605	44.72%		259	19-Jun-20 A	14-Feb-22	31-May-21	04-Sep-22	203	
<u> </u>	P6A-M42.08.1.2.1 Reclamation	290	409			259	01-Jan-21 A		<del></del>	<del></del>	100	
	VP6A-M42.08.1.2.1.6 Reclamation Works	260	335	0.38%		259		14-Feb-22	31-May-21		8	
	Reclamation fill for Marine Access from -9.0mPD to +2.5mPD (~300,000m3@4000m3/d)	37	103	26%	26%	27	16-Mar-21 A		25-Jun-21		26	27-Jun-21, Reclamation fill for Marine
08-1210-1(6)	Reclamation fill for Eastern & Western Edge Areas from +2.5 to Formation Level (289,000m3@6	49	137	24%	24%	37	· · · · · · · · · · · · · · · · · · ·	-	19-Aug-21		28	
08-1220(6)	Reclamation fill for Marine Access from +25 to Formation Level (91,000m3@6000m3/d)	16	16	0%	0%	16	29-Aug-21	13-Sep-21	26-Sep-21	11-Oct-21	28	29
	WP6A-M42.08.1.2.1.6.3 Surcharge Filling	80	139	1.25%	400/	79	01-Apr-21 A	18-Aug-21		25-Aug-21	8	45 14 04 5 11 22
08-3010(6)	Fill up +6 to +11-12mPD at PB2-3 (Stage 2) (102,555m3 @ 2000m3/d)	52	105	13%	13%	45	01-Apr-21 A	15-Jul-21	04-Jun-21	19-Jul-21	5	15-Jul-21, Fill up +6 to
08-3020(6)	Fill up +6 to +12mPD at ACC, TH, CCCW & Substation (Stage 3-1) (67,500m 3 @ 2000m3/d)	34	34	0%	0%	34	15-Jul-21	18-Aug-21		25-Aug-21	8	15-Jul-21
EP_SP_66_12-V 08-3090(6)	WP6A-M42.08.1.2.1.6.4 Surcharge Period  Loading @ +11-12mPD at PB1-2 (Stage 1)	259 180	259 180	0% 0%	0%	259 180	31-May-21 31-May-21	14-Feb-22 26-Nov-21	31-May-21 31-May-21		0	31-May-21
08-3090(6)	, , ,	180	180			180	-				5	31-way-21 15-Jul-21
	Loading @ +11-12mPD at PB2-3 (Stage 2)			0%	0%		15-Jul-21	11-Jan-22 14-Feb-22	20-Jul-21	15-Jan-22	-	
08-3110(6)	Loading @ +12mPD at ACC, TH, CCCW & Substation (Stage 3)  WP6A-M42.08.1.2.1.6.5 Retaining Wall	180	180	0%	0%	180	18-Aug-21			21-Feb-22	8	18-Aug-21
EP_SP_66_12-V 08-3160(6)	Temporary Gabion Retaining Wall for Surcharge Laying at Southern Edge (~50m)	14 14	14 14	0% 0%	0%	14	31-May-21 31-May-21	13-Jun-21 13-Jun-21	09-Jul-21 09-Jul-21	22-Jul-21 22-Jul-21	39 39	31-May-21 13-Jun-21, ≸emporary Gabion Retaining Wall for
. ,	PFA-M42.08.1.2.1.1 Instrumentation	151		21.85%	υ%	118	31-May-21 11-Jan-21 A		19-Jun-21	16-Nov-21	52	51-way-21 13-Jun-21, periporary Gabion Retaining Wall for
08-1340 (M23)	Placing Settlement Plates for Settlement Markers & Instrumentation on +2.5mPD (~42nrs)	60	258 90	51.67%	51.67%	29		25-Sep-21 28-Jun-21	21-Aug-21	18-Sep-21	82	28-Jun-21, Placing Settlement Plates
08-1350 (M23)		65	78	56.92%	56.92%	28		28-Jun-21	22-Aug-21	18-Sep-21	82	28-Jun-21, Extension of instruments
JO 1000 (IVIZO)		42	42	0%	0%	42	15-Aug-21	25-Sep-21	06-Oct-21	16-Sep-21 16-Nov-21	52	
08-1370 (M22)		44	42	U 70	U70	42	15-Aug-21	20-06h-21	00-001-21	10-1NOV-Z I	JE	15-Aug-21 [
	WP6A-M42.08.1.2.1.1.1 Instruments above +2.5mPD	120	228	26.67%		QΩ	11-Jan-21 A	26-Aug-21	19-Jun-21	17-Oct-21	52	i i

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Remaining Work Actual Work

Actual Milestone Critical Milestone

Critical Remaining Work

Milestone

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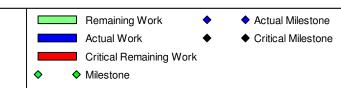
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/12	環境保護署 Environmental Protection Departme
e 1	Environmental Protection Departme

言質 五 格 新 一 紙 草 剛 夢 会 互 NEPPLI SICIENTS - ZHIN HO A CONT VINTURE									1	ntegrated Waste Manag	gement Faciliti	ies Phase	Gooden	米記・音 nmental Protection Departmen
Activity ID Activity Name	Planned	At Completion Duration	Duration %	Activity %	Remaining Primary Constraint	Current Start	Current Finish	Late Start	Late Finish	Total Float M42 Remarks		20, 1 11400	2021	
	Duration	Duration	Complete	Complete	Duration						May 42	Jun 43	Jul 44	Aug 45
08-2000 (M42) Drilling and installation of Instrumentation (12nrs.)	96	174	64.58%	64.58%	34	11-Jan-21 A	03-Jul-21	14-Sep-21	17-Oct-21	106 Extracted Activity				g and installation of Instrum
EP SP 66 12-WP6A-M42.08.1.2.1.1.1.3 Process Building Module 2	96	141	73.96%		25	04-Feb-21 A	24-Jun-21	25-Jun-21	19-Jul-21	25			:	
08-2020 (M42) Drilling and installation of Instrumentation (12nrs.)	96	141	73.96%	73.96%	25	04-Feb-21 A	24-Jun-21	25-Jun-21	19-Jul-21	25 Extracted Activity				nstallation of Instrumentation
EP_SP_66_12-WP6A-M42.08.1.2.1.1.1.4 Turbine Hall	104	145	76.92%		24	30-Jan-21 A	23-Jun-21	29-Jun-21	22-Jul-21	29			!	
08-2030 (M42) Drilling and installation of Instrumentation (13nrs.)	104	145	76.92%	76.92%	24	30-Jan-21 A	23-Jun-21	29-Jun-21	22-Jul-21	29 Extracted Activity				stallation of Instrumentatio
P_SP_66_12-WP6A-M42.08.1.2.1.1.1.5 ACC Equipment	72	130	52.78%		34	24-Feb-21 A	03-Jul-21	23-Jul-21	25-Aug-21	53				
08-2040 (M42) Drilling and installation of Instrumentation (9nrs.)	72	130	52.78%	52.78%	34	24-Feb-21 A	03-Jul-21	23-Jul-21	25-Aug-21	53 Extracted Activity				g and installation of Instrum
P_SP_66_12-WP6A-M42.08.1.2.1.1.1.6 CCCW Building	120	130	71.67%		34	24-Feb-21 A	03-Jul-21	19-Jun-21	22-Jul-21	19				
08-2050 (M42) Drilling and installation of Instrumentation (15nrs.)	120	130	71.67%	71.67%	34	24-Feb-21 A	03-Jul-21	19-Jun-21	22-Jul-21	19 Extracted Activity				g and installation of Instrun
FP_SP_66_12-WP6A-M42.08.1.2.1.1.1.7 IWMF Substation (East)	88	88	0%		88	31-May-21	26-Aug-21	22-Jul-21	17-Oct-21	52			<u> </u>	
08-2060 (M42) Drilling and installation of Instrumentation (11nrs.)	88	88	0%	0%	88	31-May-21	26-Aug-21	22-Jul-21	17-Oct-21	52 Extracted Activity	31-May-21 🔙			
FP_SP_66_12-WP6A-M42.08.1.2.1.1.1.8 IWMF Substation (South)	64	64	0%		64	31-May-21	02-Aug-21	15-Aug-21	17-Oct-21	76			ļ	
© 08-2070 (M42) Drilling and installation of Instrumentation (8nrs.)	64	64	0%	0%	64	31-May-21	02-Aug-21	15-Aug-21	17-Oct-21	76 Extracted Activity	31-May-21 🔙			02-Aug-21, Drilling
EP_SP_66_12-WP6A-M42.08.1.2.1.2 PVD Remedial Works	250		0%		250	01-Jan-21 A	04-Feb-22	17-Sep-21	24-May-22	109			1	
08-1390 (M34)15 Install Sand Drains at Zone D (approx. 62 nr @ 4nr/day/2 set of equipment)	16	16	0%	0%	16	31-May-21	15-Jun-21	10-Nov-21	25-Nov-21	163	31-May-21	15-Jun-2	1, Install Sand Drains	at Zone D (approx. 62 nr @
08-1390 (M34)20 Gl for ground condition varification at other Zone for PVD (10 nr approx @0.5 nr/day) Inc Report	28	28	0%	0%	28	31-May-21	27-Jun-21	29-Oct-21	25-Nov-21	151	31-May-21		. <del> </del>	nd condition varification at
a 08-1390 (M34)25 Install Sand Drains at other Zones (approx. 549 nr @ 8nr/day/4 set of equipment)	90	190	56%	56%	40	01-Jan-21 A	09-Jul-21	17-Sep-21	26-Oct-21	109			09-Jul-21, In	stall Sand Drains at other
08-1390 (M34)30 Lay Surcharge at remetial works area	30	30	0%	0%	30	09-Jul-21	08-Aug-21	27-Oct-21	25-Nov-21	109			ψl-21 <b></b>	08-Aug-21, La
08-1390 (M34)40 Surcharge Period at remedial area	180	180	0%	0%	180	08-Aug-21	04-Feb-22	26-Nov-21	24-May-22	109			08-	Aug-21
EP_SP_66_12-WP6A-M42.08.1.2.2 Breakwater	379	526	52.48%		180	19-Jun-20 A	26-Nov-21	22-Jan-22	04-Sep-22	282			1	
08-1280 Rubble Mound Laying (100,000m3 approx, @550m3/d)	188	342	60.11%	60.11%	75	06-Sep-20 A	13-Aug-21	22-Feb-22	07-May-22	267				13-Aug-21
08-1285(1) Prefabrication for Caission	180	451	41.5%	41.5%	105	19-Jun-20 A	13-Sep-21	22-Jan-22	07-May-22	237 12/29 nrs. completed			1	
© 08-1290 Caisson Laying (Total 29nrs, @2 nrs/week)	150	294	9.33%	9.33%	136	24-Dec-20 A	13-Oct-21	22-Jan-22	06-Jun-22	236 Planned Completion on 13-Ot				
08-1295(3) Caisson Infill, Solid ballast, toe protection, precast concrete blocksetc Laying	200	337	10%	10%	180	25-Dec-20 A	26-Nov-21	09-Mar-22	04-Sep-22	282			-	
FP_SP_66_12-WP6A-M42.08.1.2.3 Seawall and Berth at Marine Access	30	88	50%		15	19-Mar-21 A	14-Jun-21	09-Jul-21	23-Jul-21	39				
O8-1320(5A) Caisson Infill, Solid ballast, toe protection, precast concrete blocksetc Laying	30	88	50%	50%	15	19-Mar-21 A	14-Jun-21	09-Jul-21	23-Jul-21	39		14-Jun-21	Caisson Infill, Solid b	allast, toe protection, pred
EP_SP_66_12-WP6A-M42.15 Works By CLP	657	657	0%		657	11-Jan-23	29-Oct-24	11-Jan-23	30-Oct-24	1				
EP SP 66 12-WP6A-M42.15.1 Installation of Transmission System	403	403	0%		403	11-Jan-23	18-Feb-24	11-Jan-23	19-Feb-24	1			!	
☐ 15-0800 450 days Prior to Commencement of System Commissioning Test	0	0	0%	0%	0	21-Mar-23		21-Mar-23		0			÷	
■ 15-0900 Completion of Civil Provision for Transmission	0	0	0%	0%	0		11-Jan-23		11-Jan-23	0			1	
■ 15-1000 Construction of Transmission System	90	90	0%	0%	90	22-Oct-23	19-Jan-24	22-Oct-23	19-Jan-24	0			<del></del>	
■ 15-1002 Cable Testing	30	30	0%	0%	30 Finish On or Bef	fc 20-Jan-24	18-Feb-24*	21-Jan-24	19-Feb-24	1			<u> </u>	
EP_SP_66_12-WP6A-M42.15.2 Remaining Installation Works by CLP	300	300	0%		300	22-Oct-23	16-Aug-24	22-Oct-23	17-Aug-24	1			÷	
■ 15-1005 Handover of CLP Equipment Room for Telecom / Digitals / Security / Metering equipment Installati	210		0%	0%	210	22-Oct-23	18-May-24	22-Oct-23		0			†	
■ 15-1010 132kV cable termination at IWMF 132kV switchgear (2 panels) and associated HVAC circuits	60	60	0%	0%	60	19-Apr-24	17-Jun-24	19-Apr-24		0				
■ 15-1020 Overall testing and commissioning of 2 x CHS-IW MF circuits	90	90	0%	0%	90	19-May-24	16-Aug-24	•	17-Aug-24	1			+	
EP SP 66 12-WP6A-M42.15.3 Metering & Energization	73		0%	370	73	17-Aug-24	29-Oct-24	-	30-Oct-24	1			†	
□ 15-1030 Energization of Incoming Power Supply Main System	0		0%	0%	0	17 Aug 24	17-Aug-24	17 Aug 24	17-Aug-24	0			<del> </del>	
■ 15-1040 Energization of Incoming Power Supply Sub System	0	0	0%	0%	0		17-Aug-24		17-Aug-24	0			<del></del>	
15-1050 Export Power System Final Inspection and Metering works	30	30	0%	0%	30	30-Sep-24	29-Oct-24	01-Oct-24	30-Oct-24	1			ļ	
	0		0%	0%	0	30-3ep-24	29-Oct-24 29-Oct-24	01-001-24	30-Oct-24	1				
a 15-1060 Connection to Grid	0	U	0%	0%	U		29-UCI-24		30-OCI-24	1			1	

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

Keppel Seghers – Zhen Hua Joint Venture

## Appendix B Summary of Implementation Status of Environmental Mitigation

## Appendix B

Table B.1 Implementation Schedule for Air Quality Measures for the IWMF at the artificial island near SKC

				Imp	lementa	ation St	ages*	Relevant	Implementati
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	on Status and Remarks
S3b.8.1	Air Pollution Control (Construction Dust) Regulation & Good Site Practices   Use of regular watering, with complete coverage, to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather.  Use of frequent watering for particularly dusty construction areas and areas close to ASRs.  Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering shall be applied to aggregate fines.  Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs.  Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.  Establishment and use of vehicle wheel and body washing facilities at the exit points of the site.  Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading	During the construction period	Contractor					Air Pollution Control (Construction Dust) Regulation	N/A

	Environmental Protection Managers /			lmp	lementa	ation St	ages*	Relevant	Implementati
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	on Status and Remarks
	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.  Imposition of speed controls for vehicles on unpaved site roads. Ten kilometers per hour is the recommended limit.  Where possible, routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs  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.								
S3b.6.3	Odour Removal by Deodorizers     Deodorizers with 95% odour removal efficiency would be installed for the air ventilated from the mechanical treatment plant before discharge to the atmosphere	Waste reception halls, the waste storage area, the mechanical treatment plant / During design & operation phase		<b>V</b>		✓		EIAO-TM	N/A
S3b.8.2	Air Pollution Control and Stack Monitoring	IWMF stack emissions / During	IWMF Operator	<b>√</b>		<b>✓</b>		EIAO-TM, Supporting Document for	N/A

	Environmental Protection Manager /			Implementation Stages*			tages*	Relevant	Implementati
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	on Status and Remarks
	<ul> <li>Air pollution control and stack monitoring system will be installed for the IWMF to ensure that the emissions from the IWMF stack will meet the proposed target emission limits.</li> <li>Voluntary Enhancement Measures in Flue Gas Cleaning and Emission Monitoring: <ol> <li>Two-stage bag filter system with reagent recirculation;</li> <li>In addition to SCR, provide SNCR for removal of NOx; tighten emission limit for half-hourly and daily NOx to 160 mg/m³ and 80 mg/m³ respectively;</li> <li>Well-mixed feed waste: to minimize the fluctuation of pollutant loading on the flue gas treatment system;</li> <li>Two more AQMSs would be set up at South Lantau and Shek Kwu Chau respectively;</li> <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 exceeded 95% of the emission concentration limit as stipulated in the Special Process license; and</li> <li>Each incineration chamber shall be fitted with auxiliary burners to ensure complete burn out of the combustion gases.</li> </ol> </li></ul>	design & operation phase						Application for Variation of Environmental Permit (EP-429/2012)	

	Environmental Protection Measures /			Implementation Stages*			ages*	Relevant	Implementati
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	on Status and Remarks
	Treated Fly Ash and Air Pollution Contro Residues:  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 leachability criteria for the next six months.  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 shown in Table 2 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	IWMF stack emissions / During design & operation phase	IWMF Operator	<b>&gt;</b>				Supporting Document for Application for Variation of Environmental Permit (EP- 429/2012)	N/A

	Fundamental Burtadian Manager			Imp	lement	ation S	tages*	Relevant	Implementati
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	on Status and Remarks
	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								
	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								

	Environmental Protection Managers /			Imp	Implementation Stages*			Relevant	Implementati
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	on Status and Remarks
	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.								
-	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 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	IWMF stack emissions / During design & operation phase	IWMF Operator	<b>✓</b>		<b>✓</b>		Supporting Document for Application for Variation of Environmental Permit (EP- 429/2012)	N/A

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

	Environmental Protection Macoures /			lmp	lementa	ation St	ages*	Relevant	Implementati on Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	IIIIDICIIICIIIAIIOII	Des	С	0	Dec	Legislation and Guidelines	
	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 Magazines /			Imple	ment	ation	Stages*	Relevant	Implementatio
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	n Status and Remarks
S4b.8	Good site practices to limit noise emissions a source and use of quiet plant and working methods, whenever practicable.	Construction	EPD and its contractors		✓			EIAO-TM	Implemented
S4b.6 & S4b.8	All the ventilation fans installed in the below will be provided with silencers or acoustics treatment.  (i) Stack of the incinerator  (ii) Ventilation systems within the IWMF Enclosure and discharge silencer or other acoustic treatment equipment should be installed in the air-cooled chillers  Other than provision of silencer or other acoustic treatment equipment for the stack of the incinerator and ventilation system, the detailed design should incorporate the following good practice in order to minimize the nuisance on the neighboring NSRs.  (i) The exhaust of the ventilation system and any opening of the building should be located facing away from any NSRs; and  (ii) Louver or other acoustic treatment equipment could also be applied to the exhaust of the ventilation system.	Within IWMF area / Construction Period	EPD and its contractors			<b>\</b>		EIAO-TM	N/A

- <u>Voluntary Enhancement Measure</u>	IWMF site	Design team,	✓	✓	Supporting	Implemented
Provision of air-conditioner and double glazed windows to nearby NSR at Shek Kwu Chau (i.e. SARDA) as precautionary measures.		contractor, IWMF operator			Document for Application for Variation of Environmental Permit (EP- 429/2012)	

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

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

		Imple	mentat	tion S	tages*	II	Implementation	
Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
Drainage and Construction Site Runoff The site practices outlined in ProPECC PN 1/94 "Construction Site Drainage" should be followed as far as practicable in order to minimise surface runoff and the chance of erosion. These practices include the following items:	Work site / During the construction period	Contractor		<b>✓</b>			EIAO-TM; ProPECC PN 1/94; WPCO	N/A
At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented  Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct storm water to silt removal facilities. The design of the temporary on-site drainage system will be undertaken by the contractor prior to the commencement of construction.								
<ul> <li>Boundaries of earthworks should be surrounded by dykes or embankments for flood protection, as necessary.</li> <li>Sand/silt removal facilities such as sand/silt traps and sediment basins should be provided to remove sand/silt particles from rupoff to meet the</li> </ul>								
	Drainage and Construction Site Runoff  The site practices outlined in ProPECC PN 1/94 "Construction Site Drainage" should be followed as far as practicable in order to minimise surface runoff and the chance of erosion. These practices include the following items:  • At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented  Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct storm water to silt removal facilities. 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				Imple	menta	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	
	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.								
	Water pumped out from foundation piles must be discharged into silt removal facilities.								
	<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>								
	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.								
	Exposed soil areas should be minimized to reduce potential for increased siltation and contamination of runoff.								
	Earthwork final surfaces should be well compacted and subsequent permanent work or surface protection should be immediately performed.								

			Imple	menta	tion S	tages*	Relevant	Implementation	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	<ul> <li>Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric during rainstorms.</li> </ul>								
S5b.8.1.2	<u> </u>	Work site / During the construction period	Contractor		<b>✓</b>			EIAO-TM; ProPECC PN 1/94; WPCO	Implemented

				Imple	menta	tion S	ages*		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.	Work site / During the construction period	Contractor					EIAO-TM; ProPECC PN 1/94; WPCO	Discharge License was issued on 22/08/2019.
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		<b>✓</b>			EIAO-TM; ProPECC PN 1/94; WPCO; WDO	Deficiency of Mitigation Measures but rectified by the Contractor.
S5b.8.1.5	Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas which	Work site / During the construction period	Contractor		✓			EIAO-TM; ProPECC PN 1/94; WPCO; WDO	Implemented.

			Imple	menta	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
	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.	Work site / During the construction period	Contractor		<b>√</b>			EIAO-TM; ProPECC PN 1/94; WPCO; WDO	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:	Work site / During the construction period	Contractor		<b>✓</b>			EIAO-TM; ProPECC PN 1/94; WPCO; WDO	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>								
S5b.8.1.8	Sewage Effluent  Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to	Work site / During the construction period	Contractor		✓			EIAO-TM; ProPECC PN 1/94; WPCO	N/A

			Implei	menta	tion St	tages*	Relevant	Implementation	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	ndle sewage from the workforce. A ensed contractor would be responsible. for appropriate disposal and maintenance of these facilities.								
sho bre con start the sho blo pre con specific con specif	The proposed dredging and reclamation hould be commenced in phases. The reakwaters and seawalls should be constructed and the reclamation should be arted within the enclosed breakwaters after e completion of the breakwater. Silt curtain hould be applied around caissons / ockwork during the filling of the cell to revent the loss of fine in the filling material.  The maximum production rate for dredging rethe anti-scouring protection layer shall not acceed the permitted maximum daily dredging the and carried out within its respective stance from the nearest non-translocatable oral community by the dredging contractor as pecified in S.2.18 of the Further navironmental Permit (no.:FEP-1/429/2012/A). It is recommended to employ osed grab with small capacity of 2 m³ to control the dredging rate.  Any gap that may need to be provided for arine access will be located at the middle of the North Western seawall, away from the entified coral communities and will be nielded by silt curtains systems to control ediment plume dispersion.  The silt curtain system at marine access bening should be closed as soon as the	Work site / During the marine construction 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	Implemented.

				Imple	menta	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	
	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.								
	<ul> <li>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.</li> </ul>								
	The silt curtain system at marine access opening should be regularly checked and maintained to ensure proper functioning.								
	<ul> <li>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;</li> </ul>								
	• 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;								
	No dredging should be carried out within 16m to the nearest non-translocatable coral community;								
	Daily site audit including full-time on-site monitoring by the ET is recommended during the dredging for anti-scouring protection layer								

				Imple	menta	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
	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>								
	Frame-type silt curtains should be deployed around the dredging operations;								
	<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>								
	No concurrence works between laying of submarine cables and dredging/reclamation works within the same location is allowed. For works close to each other, the construction program should be arranged so that the dredging/reclamation works within area bounded by the breakwaters and the laying of cables would not operate within a distance of								
	cables would not operate within a distance of 80m from each other to avoid any accumulative impact on the environment (in case if such tight schedule is necessary).								

				Implei	menta	tion S	tages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	<ul> <li>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 maintained to ensure that the decks are not washed by wave action.</li> </ul>								
	No DCM works should be carried out within 100m to the nearest non-translocatable coral colony / colonies.								
	Silt curtains should be employed to enclose DCM field trial and any full scale DCM work to minimize the potential impacts on water aspect.								
	<ul> <li>A sand blanket is to be placed on top of the marine deposit using tremie pipes prior to the DCM ground treatment to avoid seabed sediment disturbance.</li> </ul>								
S5b.8.2.3	Operational Phase Discharges  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	<b>✓</b>		<b>✓</b>	V	VPCO	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.	Within IWMF site / During the operational phase	IWMF Operator	~		<b>✓</b>	V	VPCO; WDO	N/A

				Imple	menta	tion S	tages*		Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	O Dec		Legislation and Guidelines	Status and Remarks
	Accidental spillage should be cleaned up as soon as practicable and all waste oils and fuels should be collected and handled in compliance with the Waste Disposal Ordinance.								
S5b.8.2.5	Refuse Entrapment  Collection and removal of floating refuse should be performed at regular intervals for keeping the water within the Project site boundary and the neighboring water free from rubbish.	Within the Project site / During the operational phase	IWMF Operator			<b>✓</b>		WPCO	N/A
S5b.8.2.6	Transportation of bottom ash, fly ash and APC residues to WENT Landfill for disposal  Covered container should be used in the shipping of the incineration waste to limit the contact between the incineration waste and the marine water. A comprehensive emergency response plan for any accidental spillage should be submitted by the operation contractor to the EPD for agreement before the operation of the facilities. Salvage and cleanup action to recover the spilled incineration waste containers following the spillage should be carried out according to the emergency response plan to mitigate the environmental impact in case of spillage.	Transportat ion of Incineration Ash / During the operational phase	IWMF Operator			•			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

Table B.4	implementation schedule for waste mana			Implementation Stages					
		Location /		Imple	ementa	tion S	tages*	Logiclation	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
6b.5.1.2	Good Site Practices  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:  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);  Provide staff training for proper waste management and chemical handling procedures;  Provide sufficient waste disposal points and regular waste collection;  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  Carry out regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors;  Separate chemical wastes for special handling and disposed of to licensed facility for treatment; and  Employ licensed waste collector to collect waste.		Contractor					WDO; LDO; ETWB TCW No. 19/2005; EIAO-TM	Implemented
6b.5.1.3	Waste Reduction Measures	Work Site/ During Design	Contractor	<b>✓</b>	<b>√</b>				Implemented

				Imple	menta	tion 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	
	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.	& Construction Period							N/A for foundation and demolition items
	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;  Sort out demolition debris and excavated materials from demolition works to recover reusable/recyclable portions (i.e. soil, broken concrete, metal etc.);  Segregate and store different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal;  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;  Proper storage and site practices to minimize the potential for damage or contamination of construction materials; and								
	<ul> <li>Plan and stock construction materials carefully to minimize amount of waste to be</li> </ul>								

						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
	generated and to avoid unnecessary generation of waste.									
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		<b>✓</b>	<b>✓</b>			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 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	Seawall and Reclamation site / Construction Period	EPD and its contractor		<b>✓</b>				DASO ETWB TCW 34/2002	Implemented

	Environmental Protection Measures / Mitigation Measures			Imple	Implementation S		tages*	Relevant	Implementation
EIA Ref		Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	proposal shall be submitted to and approved by DEP before the additional marine SI works.								
6b.5.1.9	Dredged Sediment – Sediment Transportation  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 selfmonitoring devices as specified by the DEP.	Seawall and Reclamation site / Construction Period	EPD and its contractor		<b>✓</b>			DASO ETWB TCW 34/2002	Implemented
6b.5.1.10	Construction and Demolition Materials  In order to minimize the impact resulting from collection and transportation of C&D materials for off-site disposal, the excavated material arising from site formation and foundation works should be reused onsite as backfilling material and for landscaping works as far as practicable. Other mitigation requirements are listed below:  • A Waste Management Plan (WMP), which becomes part of the Environmental Management Plan (EMP), should be prepared in accordance with ETWB TCW No.19/2005;  • A recording system for the amount of wastes generated, recycled and disposed	Work Site/ During Design & Construction Period	Contractor	<b>✓</b>	<b>✓</b>			ETWB TCW No. 19/2005	Implemented

	Environmental Protection Measures / Mitigation Measures			Imple	ementa	tion S	tages*	Relevant	Implementation Status and Remarks
EIA Ref		Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	(including the disposal sites) should be adopted for easy tracking; and								
	In order to monitor the disposal of C&D								
	materials at public filling facilities and landfills and to control fly-tipping, a tripticket system should be adopted (refer to ETWB TCW No. 31/2004).								
6b.5.1.11	The Contactor should prepare and implement an EMP in accordance with	Work Site/ During Design	Contractor	✓	<b>✓</b>			ETWB TCW No. 19/2005	Implemented
6b.5.1.12	ETWB TCW No.19/2005, which describes	&						13/2003	
	the arrangements for avoidance, reuse,	Construction							
	recovery, recycling, storage, collection,	Period							
	treatment and disposal of different categories of waste to be generated from								
	construction activities. Such a management								
	plan should incorporate site specific factors,								
	such as the designation of areas for segregation and temporary storage of								
	reusable and recyclable materials. The EMP								
	should be submitted to the Engineer for								
	approval. The Contractor should								
	implement waste management practices in the EMP throughout the construction stage of								
	the Project. The EMP should be reviewed								
	regularly and updated by the Contractor,								
	preferably on a monthly basis.								
	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								

EIA Ref	Environmental Protection Measures / Mitigation Measures			Implementation Stages*				Relevant	Implementation
		Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	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	Chemical Wastes  Should chemical wastes be produced at the construction site, the Contractor would be required to register with EPD as a Chemical Waste Producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately.  Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste (such as explosive, flammable, oxidizing, irritant, toxic, harmful, or corrosive). The Contractor should employ a 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.	Work Site/ During Construction Period	Contractor		<b>✓</b>			Waste Disposal (Chemical Waste) (General) Regulation	Deficiency of Mitigation Measures but rectified by the Contractor.

EIA Ref	Environmental Protection Measures / Mitigation Measures			Implementation Stage				Relevant	Implementation
		Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
6b.5.1.14	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		<b>√</b>			Public Health and Municipal Services Ordinance	Implemented
6b.5.1.16 - 6b.5.1.33	Biogas Generation  The Contractor shall review the data and analysis results, and the data from further Site Investigation, if any. Subject to the review findings, the following gas protection measures may be considered if necessary:  - gas monitoring after reclamation;  - passive ventilation;  - gas impermeable membrane;  - ventilation with "at risk" rooms;  - protection of utilities or below ground services;  - precautions during construction works;  - precautions prior to entry of belowground services	Reclamation site (if dredging at the reclamation site is not required) / Design & Construction Period	Designer and/or contractor	~	✓			EPD/TR8/97	N/A
6b.5.2.1	Good Site Practices	IWMF Site/During	IWMF Operator			<b>√</b>		Waste Disposal Ordinance (Cap.354);	N/A

	Environmental Protection Measures / Mitigation Measures			Imple	menta	tion S	tages*	Relevant Legislation and Guidelines	Implementation Status and Remarks
EIA Ref		Location / Timing	Implementation Agent	Des	С	0	Dec		
	It is recommended that the following good operational practices should be adopted to minimise waste management impacts:	Operation Period						Waste Disposal (Chemical Waste) (General) Regulation; ETWB TCW No.	
	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;							1/2004	
	<ul> <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> </ul>								
	Use of a waste haulier licensed to collect specific category of waste;								
	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								
	<ul> <li>ETWB TCW No. 31/2004.</li> <li>Training of site personnel in proper waste management and chemical waste handling procedures;</li> </ul>								
	Separation of chemical wastes for special handling and appropriate treatment at a licensed facility;								
	<ul> <li>Routine cleaning and maintenance programme for drainage systems, sumps and oil interceptors;</li> </ul>								

				Imple	menta	tion S	tages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	<ul> <li>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> <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 Any unused chemicals or those with remaining functional capacity should be reused as far as practicable.</li> </ul>		IWMF Operator			<b>✓</b>			Implemented

				Imple	menta	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
6b.5.2.3	<ul> <li>Storage, Handling, Treatment, Collection and Disposal of Incineration By-Products</li> <li>The following measures are recommended for the storage, handling and collection of the incineration by-products:         <ul> <li>Ash should be stored in storage silos;</li> <li>Ash should be handled and conveyed in closed systems fully segregatedfrom 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 designated landfill site.</li> </ul> </li> <li>The Contractor should provide EPD with chemical analysis results of the bottom ash, and treated fly ash and APC residues to confirm that the ash/residue</li> </ul>	IWMF Site/ During Operation Period	IWMF Operator			✓			N/A
	can comply with the proposed Incineration Residue Pollution Control Limits before disposal.								

				Imple	menta	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
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> </ul>	Fuel Oil Storage Tank/ During Design, Construction and Operation Periods	IWMF Contractor	<b>✓</b>	<b>✓</b>	<b>V</b>			N/A
	<ul> <li>Tank integrity tests should be conducted by an independent qualified surveyor or structural engineer.</li> <li>Any potential problems identified in the test should be rectified as soon as possible.</li> </ul>								
6b.6.3.1	possible.  Fuel Oil Pipeline Construction and Test  Installation of aboveground fuel oil pipelines is preferable; if underground pipelines are unavoidable, concrete lined trenches should be constructed to contain the pipelines.  Double skin pipelines are preferred.  Distance between the fuel oil refuelling points and the fuel oil storage tank shall be minimized.	Fuel Oil Pipelines/ During Design, Construction and Operation Periods	IWMF Contractor	<b>*</b>	<b>✓</b>	<b>V</b>			N/A

				Imple	menta	tion S	tages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	<ul> <li>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>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	•	✓	<b>V</b>			N/A
6b.6.3.1	Storage tank refuelling     Storage tank refuelling (from road tanker) should only be conducted by authorized staff of the oil company using the company's standard procedures.	Fuel Oil Refuelling Point/ During Operation Period	IWMF Operator			✓			N/A
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.  • Training	IWMF Site/ During Operation Period	IWMF Operator			<b>✓</b>			N/A

				Impler	menta	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
	- Training on oil spill response actions should be given to relevant staff. The training shall cover the followings:								
	<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 so that necessary assistance from relevant department can be quickly sought.								
	Response Procedures								
	<ul> <li>-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.</li> </ul>								
	-Plant Manager should immediately attend to the spillage and initiate any appropriate action to confine and clean up the spillage. The response								

				Imple	menta	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
	procedures shall include the following:  >Identify and isolate the source of spillage as soon as possible.  >Contain the oil spillage and avoid infiltration into soil/ groundwater and discharge to storm water channels.  >Remove the oil spillage.								
	➤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. The handling and disposal procedures for chemical wastes are discussed in the following paragraphs.</li> </ul>								
6b.6.3.2	<ul> <li>Chemicals and Chemical Wastes Handling &amp; Storage</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> </ul>	Chemicals and Chemical Wastes Storage Area / During Operation Period	IWMF Operator			<b>V</b>			N/A
	<ul> <li>The storage areas for chemicals and chemical wastes shall have an</li> </ul>								

				Imple	menta	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
	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> </ul>								
	<ul> <li>Able to withstand normal loading and physical damage caused by container handling</li> </ul>								
	<ul> <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>								
	For liquid chemicals and chemical wastes storage, the 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	Chemicals and Chemical Wastes Spillage Response	IWMF Site/ During	IWMF Operator			<b>✓</b>			N/A

				Imple	menta	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
	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.	Operation Period							
	Training								
	<ul> <li>Training on spill response actions should be given to relevant staff.</li> <li>The training shall cover the followings:</li> </ul>								
	Tools & resources to handle spillage, e.g. locations of spill handling equipment;								
	<ul> <li>General methods to deal with spillage; and</li> </ul>								
	Procedures for emergency drills in the event of spills.								
	Communication								
	<ul> <li>Establish communication channel with FSD and EPD to report the spillage incident so that necessary assistance from relevant department can be quickly sought.</li> </ul>								
	Response Procedures								

				Imple	menta	tion S	tages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	<ul> <li>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/ 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								

				Implei	menta	tion S	tages*	Relevant Implementatio	\n
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation Status and Guidelines Remarks	/II
	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 from the ambient environment;  • Ash should be wetted with water to control fugitive dust, where necessary;  • 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;  • The ash should be transported in covered trucks or containers to the designated landfill site.	Storage, Handling & Collection of Incineration Ash at IWMF/ During Operation Period	IWMF Operator			<b>✓</b>		N/A	
6b.6.3.4 - 6b.6.3.6	Incident Record	IWMF Site/ During	IWMF Operator			<b>√</b>	fo	uidance Manual N/A or Use of Risk- ased Remediation	

				Implei	menta	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
	After any spillage, an incident report should be prepared by the Plant Manager. The incident report should contain details of the incident including the cause of the incident, the material spilled and estimated spillage amount, and also the response actions undertaken. The incident record should be kept carefully and able to be retrieved when necessary.	Operation Period						Goals for Contaminated Land Management and the Guidance Note for Contaminated Land and Remediation.	
	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.								
	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 of Risk-based Remediation Goals for Contaminated Land</i>								
	Management and the Guidance Note for Contaminated Land and Remediation.								

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

Integrated Waste Management Facilities, Phase 1

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

Table B.5	Implementation Schedule for Ecological Qua	ality weasures to	or the IWMF at the art	ificiai isian	a near SK		1
				Implemer	tation Sta	ges* Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des C	0 [	Legislation and Guidelines	Status and Remarks
7b.8.2.1	Measures to avoid direct loss of intertidal habitat  • 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.	IWMF site	Design team	<b>V</b>		EIAO-TM	N/A
7b.8.2.2	Measures to minimise loss of coastal subtidal habitat     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.	IWMF site	Design team	<b>V</b>		EIAO-TM	N/A
7b.8.2.3	Zero Discharge Scheme  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 provided to treat the wastewater generated from the IWMF (mainly human sewage). The treated effluent would be re-used in the incineration	IWMF site	Design team, IWMF operator	<b>✓</b>	~	WPCO	N/A

						Imple	ement	ation	Stages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	/	Implemei Age		Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	plant and mechanical treatment plant, or for onsite washdown and landscape.										
7b.8.2.4	Measures to avoid loss of plant species of conservation importance	Cheung Sha landing porta		Design Contractor	team,	<b>√</b>	<b>√</b>		<b>\</b>	EIAO-TM	N/A
	<ul> <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>										
7b.8.3.1- 7b.8.3.15	<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</li> </ul>	Work site		Design contractor, operator	team, IWMF	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>~</b>	EIAO-TM; ProPECC PN 1/94; WPCO	Implemented
	implemented.										
7b.8.3.16 - 7b.8.3.30	Measures to minimise disturbance on Finless Porpoise  Minimisation of Habitat Loss for Finless Porpoise  • 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	IWMF site, work si marine traf route	ite,	Design contractor, operator	team, IWMF	✓	•	<b>✓</b>	\frac{1}{2}	EIAO-TM, Supporting Document for Application for Variation of the Environmental Permit (EP- 429/2012)	Implemented for avoidance of construction works that may produce underwater acoustic disturbance, Vessel Travel Route implementation, training of staff, MMEZ and marine mammal watching works during deployment of silt curtain; N/A for others

				Imple	ement	ation	Stages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	reduced from the original ~50 ha, down to ~31 ha.								
	Avoidance of peak season for finless porpoise occurrence								
	<ul> <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 (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);</li> <li>bored piling works for berth area (Phase 3); and</li> <li>submarine cable installation works between Shek Kwu Chau and Cheung Sha.</li> </ul> </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								

Avironmental Protection Measures / Mitigation Measures  a acoustic disturbance would also be mised.  marine cable installation works are also recommended to cheduled within June to November, when tings of Finless Porpoise is scarce in the of the proposed alignment of the marine cable.	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
marine cable installation works are also recommended to cheduled within June to November, when tings of Finless Porpoise is scarce in the of the proposed alignment of the								
are also recommended to cheduled within June to November, when tings of Finless Porpoise is scarce in the of the proposed alignment of the								
l l								
e the DCM ground treatment and the allation of precast seawalls and kwaters should generate no underwater ustic disturbance to Finless Porpoise, no cific mitigation measures are required.								
quieter construction methods and plants								
sidering the sensitivity of marine nmals to underwater acoustic urbance, instead of the previously losed conventional breakwater and amation peripheral structure, which lires noisy piling works, the current ular cells structure for breakwater reclamation peripheral structure is losed. A quieter sheet piling method g vibratory hammer or hydraulic impact mer should be adopted for the								
יו פווי	mation peripheral structure, which ires noisy piling works, the current lar cells structure for breakwater reclamation peripheral structure is osed. A quieter sheet piling method y vibratory hammer or hydraulic impact mer, should be adopted for the llation of circular cells for cellular	mation peripheral structure, which mation peripheral structure, which mes noisy piling works, the current lar cells structure for breakwater reclamation peripheral structure is posed. A quieter sheet piling method g vibratory hammer or hydraulic impact mer, should be adopted for the	mation peripheral structure, which ires noisy piling works, the current lar cells structure for breakwater reclamation peripheral structure is posed. A quieter sheet piling method g vibratory hammer or hydraulic impact mer, should be adopted for the llation of circular cells for cellular	mation peripheral structure, which ires noisy piling works, the current lar cells structure for breakwater reclamation peripheral structure is posed. A quieter sheet piling method g vibratory hammer or hydraulic impact mer, should be adopted for the llation of circular cells for cellular	mation peripheral structure, which ires noisy piling works, the current lar cells structure for breakwater reclamation peripheral structure is osed. A quieter sheet piling method g vibratory hammer or hydraulic impact mer, should be adopted for the llation of circular cells for cellular	mation peripheral structure, which ires noisy piling works, the current lar cells structure for breakwater reclamation peripheral structure is osed. A quieter sheet piling method g vibratory hammer or hydraulic impact mer, should be adopted for the llation of circular cells for cellular	mation peripheral structure, which ires noisy piling works, the current lar cells structure for breakwater reclamation peripheral structure is posed. A quieter sheet piling method g vibratory hammer or hydraulic impact mer, should be adopted for the llation of circular cells for cellular	mation peripheral structure, which ires noisy piling works, the current lar cells structure for breakwater reclamation peripheral structure is osed. A quieter sheet piling method g vibratory hammer or hydraulic impact mer, should be adopted for the llation of circular cells for cellular

				Imple	ement	ation	Stages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	Phase 1, and southern breakwater Phase 3;								
	Non-percussive bore piling method would be								
	adopted for the installation of tubular piles for the berth construction during Phase 3.								
	Monitored exclusion zones								
	During the installation/re-								
	installation/relocation process of floating type								
	silt curtains, in order to avoid the accidental								
	entrance and entrapment of marine								
	mammals within the silt curtains, a								
	monitored exclusion zone of 250 m radius from silt curtain should be implemented.								
	The exclusion zone should be closely								
	monitored by an experienced marine								
	mammal observer at least 30 minutes								
	before the start of installation/re-								
	installation/relocation process. If a marine								
	mammal is noted within the exclusion								
	zone, all marine works should stop								
	immediately and remain idle for 30 minutes, or until the exclusion zone is free from								
	marine mammals.								
	mainte maininaie.								
	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								

				Imple	ement	tation	Stages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	from the project proponent and has the power to call-off construction activities.								
	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.								
	Marine mammal watching plan								
	Upon the completion of the installation/re-installation/relocation of floating type silt curtain, all marine works would be conducted within a fully enclosed environment within the silt curtain, hence exclusion zone monitoring would no longer 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								

				Imple	ement	tation	Stages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	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 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.</li> </ul>								
	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.								
	Passive acoustic monitoring and land-based theodolite monitoring surveys should be								

				Imple	emen	tation	Stages ³	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	adopted to verify the predicted impacts and effectiveness of the proposed mitigation measures.								
	Training of Staff								
	<ul> <li>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</li> </ul>								
7b.8.3.31 - 7b.8.3.34	Measures to minimise impact on corals  Coral translocation	IWMF site	Design team, contractor, IWMF operator	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	EIAO-TM	Implemented, tagged coral found missing after hitting by typhoons
	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).								Re-tagging of 10 coral colonies at indirect impact site and control site were conducted in November and December 2018 respectively.

				Imple	ment	ation	Stages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	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.								
	Prior to coral translocation, a more detailed baseline survey, including a coral mapping survey, is recommended to further confirm the 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								

				Imple	ement	ation	Stages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	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 reduce the amount of concurrent works, hence minimize SS elevation and the associated impacts on corals.</li> </ul>								
7b.8.3.35 - 7b.8.3.41	Specific measures to minimize disturbance on breeding White-bellied Sea Eagle  Avoidance of noisy works during the breeding season of White-bellied Sea Eagle  • 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:  - sheet piling works for construction of cofferdam surrounding the reclamation area (Phase 1); - sheet piling works for construction of the shorter section of breakwater (Phase 1);		Design Team, Contractor, IWMF operator	•	<b>V</b>	<b>✓</b>	<b>~</b>	EIAO-TM	Implemented

				Impl	ement	ation	Stages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	sheet piling works for construction of the remaining section of breakwater (Phase 3); and     bored piling works for berth area (Phase								
	3).								
	Opt for quieter construction methods and plants								
	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.								
	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								
	A WBSE monitoring programme is								
	recommended to assess any adverse and unacceptable impacts to the breeding								

				Imple	ement	ation	Stages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	activities of WBSE during construction and operation of the Project. Monitoring surveys for WBSE would include preconstruction 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).  • 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&A Manual.								
	Education of staff								
	Staff, including captains of all vessels during construction and operation phases, should be aware of the ecological importance of WBSE.  Awareness should be raised among staff to minimise any intentional or unintentional disturbance to the nest.								
	Minimisation of Glare Disturbance								
	To minimise glare disturbance on WBSE, which may cause disorientation of birds								

				Imple	ement	ation	Stages'	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	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 downward pointing of lights should be adopted.								
-	<ul> <li>Construction of Seawall/Breakwaters</li> <li>To widen the open channel between the Artificial Island and Shek Kwu Chau.</li> <li>To design the precast concrete seawall with environmental friendly features.</li> </ul>	IWMF site	Design team, contractor, IWMF operator	<b>√</b>	<b>√</b>			Supporting Document for Application for Variation of Environmental Permit (EP- 429/2012)	N/A
7b.8.3.42	<ul> <li>Opt for Quieter Construction Methods and Plants</li> <li>Quieter construction methods and plants should be used to minimise disturbance to the nearby terrestrial habitat and the associated wildlife.</li> </ul>	Work site	Design team, contractor, IWMF operator	<b>√</b>	<b>√</b>	<b>√</b>	<b>~</b>	EIAO-TM	Implemented
7b.8.3.43	Measures to minimize impacts from artificial lighting     Unnecessary lighting should be avoided, and shielding of lights should be provided to minimize disturbance from light pollution on fauna groups.	IWMF site	Design team, contractor, IWMF operator	<b>√</b>	<b>√</b>	<b>✓</b>		EIAO-TM	Implemented
7b.8.3.44 - 7b.8.3.45	Measures to minimize accidental spillage     Regular maintenance of vessels, vehicles and equipment that may cause leakage and spillage should only be undertaken within	Work site	Contractor, IWMF operator		<b>√</b>	<b>✓</b>	<b>√</b>	EIAO-TM	Deficiency of Mitigation Measures but rectified by the Contractor.

				Imple	ment	ation	Stages*	* Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	pre-designated areas, which are appropriately equipped to control the associated discharges.								
	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.								
7b.8.3.46	Measures to minimise sewage effluent     Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce.	Work site	Contractor		<b>√</b>			EIAO-TM	N/A
7b.8.3.47	Measures to minimise drainage and construction runoff      Potential ecological impacts resulted from potential degradation of water quality due to unmitigated surface runoff could be minimised via the detailed mitigation measures in Section 5b.8 of the EIA Report. The following presents some of the mitigation measures:	Work site	Contractor		<b>√</b>		✓	EIAO-TM	N/A

				Imple	ement	ation	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>On-site drainage system with implemented sedimentation control facilities.</li> <li>Channels, earth bunds or sand bag barriers should be provided on site to direct storm water to silt removal facilities.</li> <li>Provision of embankment at boundaries of earthworks for flood protection.</li> <li>Water pumped out from foundation piles must be discharged into silt removal facilities.</li> <li>During rainstorms, exposed slope/soil surfaces should be covered by tarpaulin or other means, as far as practicable.</li> <li>Exposed soil surface should be minimized to reduce siltation and runoff.</li> <li>Earthwork final surfaces should be well compacted. Subsequent permanent surface protection should be immediately performed.</li> <li>Open stockpiles of construction materials, and construction wastes on-site should be covered with tarpaulin or similar fabric during rainstorms.</li> </ul>								
7b.8.3.48	Measures to minimise impacts from general construction activities	Work site	Contractor		✓			EIAO-TM	Implemented
	To avoid the entering of construction solid waste into the nearby habitats, construction solid waste should be collected, handled								

		l a satisfact		Imple	men	tation	Stages*	* Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	and disposed of properly to avoid entering to the nearby habitats. It is recommended to clean the construction sites on a regular basis.								
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 - Rapid clean up of any waste spillages - Maintenance of a tidy and clean site environment - Regular application of pest control - Education of staff the importance of site cleanliness	IWMF site	IWMF operator			✓ ·			N/A
7b.8.3.50	Control of Marine Habitat Quality during Operation Phase  • Depending on the seabed condition of the approach channel for marine vessels during operation phase of the IWMF, maintenance dredging may be required to	IWMF site	IWMF operator			<b>√</b>		EIAO-TM; WPCO	N/A

				Imple	ement	ation	Stages*	S* Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	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.								
7b.8.4.1 - 7b.8.4.8	Compensation of loss of important habitat of Finless Porpoise  Designation of Marine Park	Waters between Shek Kwu Chau and Soko Islands	Project Proponent	<b>✓</b>		✓		EIAO-TM	N/A
	<ul> <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</li> </ul>								

				Imple	ement	tation	Stages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	with the operation of the IWMF at the artificial island near SKC.								
	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. Based on the findings, ecological profiles of the proposed area for 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>								

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				Imple	ment	ation	Stages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	The Project Proponent should provide assistance to AFCD during the process of the marine park designation.								
7b.8.5.1	Additional Enhancement or	Within the	Project Proponent	<b>✓</b>		✓		EIAO-TM	N/A
- 7b.8.5.4	<u>Precautionary Measures</u> Deployment of Artificial Reefs	proposed marine park under this							
	<ul> <li>Deployment of artificial reefs (ARs) is an enhancement measure for the 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> </ul>	study							
	Release of Fish Fry at Artificial Reefs and Marine Park								
	Release of fish fry at the proposed ARs, as								
	well as the proposed marine park under this study, should enhance the fish resources in the nearby waters, and subsequently food sources for Finless Porpoise. The								
	proposed ARs with various micro-habitats would have the potential to provide shelter and nursery ground for the released fish fry.								

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implemen Des C	tation O	Stages* Dec	Relevant Legislation and Guidelines	Implementation Status and Remarks
	The frequency and quantity of fry to be released should be agreed by AFCD.							

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

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

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

				Imple	ement	tation	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.8.1.4- 8b.8.1.6	Measures to control water quality     No wastewater effluent, anti-fouling agent, heavy metals and other contaminants would be released during operation phase of the Project.	Work site, IWMF site	Design team, contractor, IWMF operator	<b>✓</b>	✓	<b>*</b>	<b>✓</b>	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	Additional Enhancement / Precautionary  Measures  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.  Release of Fish Fry at Artificial Reefs  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.	Within the proposed marine park in the waters between Soko Islands and Shek Kwu Chau	, ,			<b>\</b>		EIAO-TM	N/A

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

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

Table B.7	Environmental Protection		Implementation				Stages*	Relevant	Implementation
EIA Ref	Measures / Mitigation Measures	Location / Timing	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	<ol> <li>Landscape Design</li> <li>Early planting using fast grow trees and tall shrubs at strategic locations within site as buffer to block view corridors to the site from the VSRs, and to locally screen haul roads, excavation works and site preparation works.</li> <li>Use of tree species of dense tree crown to serve as visual barrier.</li> <li>Hard and soft landscape treatment (e.g. trees and shrubs) of open areas within development to provide a background for the outdoor containers from open view, shade and shelter, and a green appearance from surrounding viewpoints.</li> <li>Planting strip along the periphery of the project site.</li> <li>Selected tree species suitable for the coastal condition.</li> </ol>	Work site / During design & construction phases	Contractor		<b>V</b>				N/A

	Environmental Protection		Implementation	Imple	ment	ation	Stages*	Relevant	Implementation
EIA Ref	Measures / Mitigation Measures	Location / Timing	Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
S10b.10 MLVC-03	Adoption of Natural Features of the Existing Shoreline  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.	Work site / During construction phase	Contractor		<b>✓</b>				N/A
	<ol> <li>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.</li> </ol>								
S10b.10 MLVC-04	Greening Design (Rooftop & Vertical Greening)  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.	During design & construction phases	Contractor	•	<b>✓</b>				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.								

	Environmental Protection		Implementation	Imple	ment	ation	Stages*	Relevant	Implementation	
EIA Ref	Measures / Mitigation Measures	Location / Timing	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	
WIVC-01	Use of natural materials with recessive color to minimize the bulkiness of the building.	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>									
	5) Provision of sky gardens between the two stacks to allow additional greening for enhancing the aesthetic quality.  Maintenance access (elevator and staircase) from the ground floor to the sky gardens will be provided to allow maintenance of the sky gardens.									
	<ol> <li>Integration of the visitor's walkway with different material façade design of incinerator plant to enhance the aesthetic quality.</li> </ol>									
S10b.10 MVC-02	Control of the security floodlight for construction areas at night to avoid excessive glare to the surrounding receiver.	Work site / During construction phase	Contractor		✓				Implemented	

	Environmental Protection		Implementation	Imple	ment	ation	Stages*	Relevant	Implementation
EIA Ref	Measures / Mitigation Measures	Location / Timing	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	<b>✓</b>	<b>√</b>				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 unobtrusive 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		<b>√</b>				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			<b>√</b>			N/A
S10b.10 MVO-02	Control of Light  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	Implement Des C	ation :	Stages* Dec	Relevant Legislation and Guidelines	Implementation Status and Remarks
S10b.10 MVO-03	Control of Operation Time  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

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Appendix C	Impact Monitoring Schedul	e of the Reporting
	Month	

			Impact Monitoring Schedule for IWMF		
			May-21		
Sun	Mon	Гие	Wed	Thu	Fri Sat
2	3	4	5	6	7 8
	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 13:24 - 21:47 Flood Tide: 00:00 - 13:24 Monitoring Time: &Mid-ebb: 15:30 - 19:00 *Mid-flood: 8:00 - 11:30 Daytime, Evening & Night time Noise monitoring for M1, M2 & M3	Impact Daytime, Evening & Night time Noise monitoring for M1, M2 & M3 Ecology monitoring for Marine Mammals by Vessel-based Line-Transect Survey			Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebt Tidac 07:58 - 13:00 Flood Tide: 13:00 - 18:45 Monitoring Time: Mid-ebb: 08:44 - 12:14 Mid-flood: 14:07 - 17:37 Daytime, Evening & Night time Noise monitoring for M1, M2 & M3
9	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 09:00 - 15:00 Flood Tide: 15:00 - 21:15 Monitoring Time: Mid-ebb: 10:15 - 13:45 &Mid-fbod: 15:30 - 19:00 Daytime, Evening & Night time Noise monitoring for M1, M2 & M3	Inpact Daytime, Evening & Night time Noise monitoring for M1, M2 & M3	12  Impact  Water Quality monitoring for \$1, 82, 83, 84, H1, C1A, C2A, F1A, CR1, CR2, M1  Tidal Period: Ebb Tide: 09:25 - 16:00 Flood Tide: 16:00 - 23:00  Monitoring Time: Mid-ebb: 10:57 - 14:27 &Mid-flood: 15:30 - 19:00	Impact Ecology monitoring for WBSE	14  Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 10:00- 17:27 Flood Tide: 04:00- 10:00 Monitoring Time: Mid-ebb: 11:58 - 15:28 *Mid-flood: 08:00 - 11:30
16	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 11:00 - 20:00 Flood Tide: 04:11 - 11:00 Monitoring Time: Mid-ebb: 13:45 - 17:15 *Mid-flood: 08:00 - 11:30 Daytime, Evening & Night time Noise monitoring for M1, M2 & M3	Impact Daytime, Evening & Night time Noise monitoring for M1, M2 & M3 Ecology monitoring for Marine Mammals by Vessel-based Line-Transect Survey	19  Impact  Water Quality monitoring for \$1, 82, 83, 84, H1, C1A, C2A, F1A, CR1, CR2, M1  Tidal Period: Ebb Tide: 13:00 - 21:57 Flood Tide: 00:00 - 13:00  Monitoring Time: &Mid-ebb: 15:30 - 19:00  *Mid-flood: 08:00 - 11:30	20	21 Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 06:40 - 10:16 Flood Tide: 10:16 - 17:00 Monitoring Time: *#Mid-ebb: 08:00 - 11:30 Mid-flood: 11:53 - 15:23
23	Impact  Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 07:34 - 14:00 Flood Tide: 14:00 - 20:16 Monitoring Time: Mid-ebb: 09:02 - 12:32 Mid-flood: 15:23 - 18:53 Daytime, Evening & Night time Noise monitoring for M1, M2 & M3	Impact Daytime, Evening & Night time Noise monitoring for M1, M2 & M3	Impact	Impact Ecology monitoring for WBSE	28 Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 10:00 - 17:16 Flood Tide: 04:00 - 10:00 Monitoring Time: Mid-ebb: 11:53 - 15:23 *#Mid-flood: 08:00 - 10:00
30	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 12:15 - 20:14 Flood Tide: 05:00 - 12:15 Monitoring Time: Mid-ebb: 14:29 - 17:59 *Mid-flood: 05:00 - 11:30 Daytime, Evening & 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 \$1,52 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-Elbi: C1-953-CR2-CR1-9H1-9Remaining stations and Mid-Flood: C2-CR1-953-CR2-9H1-9Remaining stations

\$ - Since predicted tide is shorter than 3.5 hours, method of 90% tidal period as monitoring time is approached.

& - Due to safety concern for sampling event in night-time, method of 90% tidal period as monitoring time is approached.

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Appendix D	Water Quality Monito	oring Data

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)
B1	20210503	Cloudy	Moderate	Mid-Flood	Surface	1.0	09:24	8.49	8.39	31.34	24.61	2.61	4
B1	20210503	Cloudy	Moderate	Mid-Flood	Surface	1.0	09:24	9.02	8.24	31.34	24.67	2.79	5
B1	20210503	Cloudy	Moderate	Mid-Flood	Bottom	4.0	09:23	9.25	8.45	30.74	24.60	3.17	2
B1	20210503	Cloudy	Moderate	Mid-Flood	Bottom	4.0	09:23	8.69	8.09	31.29	24.62	3.42	3
B2	20210503	Cloudy	Moderate	Mid-Flood	Surface	1.0	09:42	8.23	8.50	30.88	24.78	2.99	4
B2	20210503	Cloudy	Moderate	Mid-Flood	Surface	1.0	09:42	8.57	8.31	30.78	24.65	2.90	3
B2	20210503	Cloudy	Moderate	Mid-Flood	Bottom	4.2	09:41	8.80	8.25	31.32	24.75	3.13	6
B2	20210503	Cloudy	Moderate	Mid-Flood	Bottom	4.2	09:41	8.34	8.21	30.70	24.65	3.06	6
В3	20210503	Cloudy	Moderate	Mid-Flood	Surface	1.0	10:28	8.33	8.21	30.86	24.80	2.71	3
В3	20210503	Cloudy	Moderate	Mid-Flood	Surface	1.0	10:28	8.58	8.29	30.84	24.74	2.59	3
В3	20210503	Cloudy	Moderate	Mid-Flood	Bottom	3.5	10:27	9.02	8.18	31.21	24.92	3.16	3
В3	20210503	Cloudy	Moderate	Mid-Flood	Bottom	3.5	10:27	9.52	8.33	30.69	24.83	3.47	3
B4	20210503	Cloudy	Moderate	Mid-Flood	Surface	1.0	10:37	9.11	8.11	30.90	24.80	2.54	8
B4	20210503	Cloudy	Moderate	Mid-Flood	Surface	1.0	10:37	8.49	8.35	30.90	24.87	2.32	7
B4	20210503	Cloudy	Moderate	Mid-Flood	Bottom	3.9	10:36	8.73	8.22	30.87	24.90	3.02	4
B4	20210503	Cloudy	Moderate	Mid-Flood	Bottom	3.9	10:36	9.58	8.33	31.03	24.84	3.61	3
C1A	20210503	Cloudy	Moderate	Mid-Flood	Surface	1.0	08:56	8.34	8.36	30.83	24.60	2.54	5
C1A	20210503	Cloudy	Moderate	Mid-Flood	Surface	1.0	08:56	9.29	8.55	31.33	24.61	2.64	4
C1A	20210503	Cloudy	Moderate	Mid-Flood	Middle	5.1	08:55	8.48	8.34	30.96	24.60	2.70	4
C1A	20210503	Cloudy	Moderate	Mid-Flood	Middle	5.1	08:55	9.52	8.20	30.66	24.79	3.11	5
C1A	20210503	Cloudy	Moderate	Mid-Flood	Bottom	9.2	08:54	9.07	8.14	31.19	24.74	3.61	3
C1A	20210503	Cloudy	Moderate	Mid-Flood	Bottom	9.2	08:54	8.36	8.17	31.12	24.68	3.16	2
C2A	20210503	Cloudy	Moderate	Mid-Flood	Surface	1.0	08:02	9.45	8.24	31.32	24.39	2.05	4
C2A	20210503	Cloudy	Moderate	Mid-Flood	Surface	1.0	08:02	8.74	8.25	31.11	24.33	2.09	3
C2A	20210503	Cloudy	Moderate	Mid-Flood	Middle	5.6	08:01	9.11	8.41	31.00	24.47	2.58	4
C2A	20210503	Cloudy	Moderate	Mid-Flood	Middle	5.6	08:01	8.76	8.29	31.31	24.43	2.84	3
C2A	20210503	Cloudy	Moderate	Mid-Flood	Bottom	10.1	08:00	8.32	8.21	31.19	24.46	3.21	3
C2A	20210503	Cloudy	Moderate	Mid-Flood	Bottom	10.1	08:00	9.34	8.41	30.69	24.40	3.52	3
CR1	20210503	Cloudy	Moderate	Mid-Flood	Surface	1.0	08:22	8.30	8.56	31.02	24.55	2.48	3
CR1	20210503	Cloudy	Moderate	Mid-Flood	Surface	1.0	08:22	8.54	8.10	30.65	24.40	2.88	2
CR1	20210503	Cloudy	Moderate	Mid-Flood	Middle	6.3	08:21	9.41	8.34	30.82	24.45	3.05	3
CR1	20210503	Cloudy	Moderate	Mid-Flood	Middle	6.3	08:21	8.97	8.43	30.70	24.53	3.08	2

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)
CR1	20210503	Cloudy	Moderate	Mid-Flood	Bottom	11.5	08:20	9.22	8.40	31.20	24.40	2.75	3
CR1	20210503	Cloudy	Moderate	Mid-Flood	Bottom	11.5	08:20	8.85	8.20	31.09	24.46	3.25	2
CR2	20210503	Cloudy	Moderate	Mid-Flood	Surface	1.0	08:36	9.46	8.34	31.30	24.50	2.64	3
CR2	20210503	Cloudy	Moderate	Mid-Flood	Surface	1.0	08:36	9.18	8.23	30.79	24.66	2.79	4
CR2	20210503	Cloudy	Moderate	Mid-Flood	Middle	5.7	08:35	8.56	8.41	31.31	24.56	2.79	3
CR2	20210503	Cloudy	Moderate	Mid-Flood	Middle	5.7	08:35	8.88	8.13	31.00	24.64	3.18	4
CR2	20210503	Cloudy	Moderate	Mid-Flood	Bottom	10.3	08:34	8.56	8.24	30.64	24.67	2.91	2
CR2	20210503	Cloudy	Moderate	Mid-Flood	Bottom	10.3	08:34	8.65	8.28	31.11	24.49	3.25	3
F1A	20210503	Cloudy	Moderate	Mid-Flood	Surface	1.0	12:13	8.84	8.17	30.87	24.93	2.53	2
F1A	20210503	Cloudy	Moderate	Mid-Flood	Surface	1.0	12:13	9.05	8.38	31.13	24.88	2.58	3
F1A	20210503	Cloudy	Moderate	Mid-Flood	Middle	3.9	12:12	8.36	8.49	31.01	24.98	2.75	3
F1A	20210503	Cloudy	Moderate	Mid-Flood	Middle	3.9	12:12	9.17	8.20	31.19	24.95	3.00	3
F1A	20210503	Cloudy	Moderate	Mid-Flood	Bottom	6.7	12:11	9.08	8.10	31.00	24.87	3.26	4
F1A	20210503	Cloudy	Moderate	Mid-Flood	Bottom	6.7	12:11	9.41	8.25	31.07	24.97	3.11	5
H1	20210503	Cloudy	Moderate	Mid-Flood	Surface	1.0	10:11	8.49	8.26	30.84	24.62	2.66	5
H1	20210503	Cloudy	Moderate	Mid-Flood	Surface	1.0	10:11	8.60	8.32	31.08	24.76	2.39	4
H1	20210503	Cloudy	Moderate	Mid-Flood	Middle	4.3	10:10	8.37	8.54	31.07	24.78	3.10	3
H1	20210503	Cloudy	Moderate	Mid-Flood	Middle	4.3	10:10	8.40	8.36	31.14	24.71	3.25	4
H1	20210503	Cloudy	Moderate	Mid-Flood	Bottom	7.5	10:09	8.37	8.19	30.74	24.64	2.53	3
H1	20210503	Cloudy	Moderate	Mid-Flood	Bottom	7.5	10:09	8.56	8.35	31.17	24.70	2.79	4
M1	20210503	Cloudy	Moderate	Mid-Flood	Surface	1.0	11:46	8.28	8.53	31.37	24.96	2.16	4
M1	20210503	Cloudy	Moderate	Mid-Flood	Surface	1.0	11:46	8.39	8.54	31.27	24.83	2.54	3
M1	20210503	Cloudy	Moderate	Mid-Flood	Middle	4.1	11:45	9.12	8.28	31.08	24.97	2.81	4
M1	20210503	Cloudy	Moderate	Mid-Flood	Middle	4.1	11:45	9.39	8.22	31.10	24.95	3.05	3
M1	20210503	Cloudy	Moderate	Mid-Flood	Bottom	7.2	11:44	9.28	8.31	31.02	24.78	3.02	3
M1	20210503	Cloudy	Moderate	Mid-Flood	Bottom	7.2	11:44	8.85	8.33	31.29	24.76	2.64	3
B1	20210503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:58	9.13	8.26	30.56	25.22	3.05	3
B1	20210503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:58	9.26	8.53	30.72	25.38	2.85	2
B1	20210503	Cloudy	Moderate	Mid-Ebb	Bottom	4.0	15:57	8.90	8.42	31.05	25.48	2.74	2
B1	20210503	Cloudy	Moderate	Mid-Ebb	Bottom	4.0	15:57	9.05	8.42	30.51	25.24	2.94	3
B2	20210503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:13	9.09	8.17	30.56	25.24	2.78	3
B2	20210503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:13	9.09	8.17	30.67	25.09	3.00	2

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)
B2	20210503	Cloudy	Moderate	Mid-Ebb	Bottom	4.3	16:12	9.01	8.16	30.67	25.14	3.58	3
B2	20210503	Cloudy	Moderate	Mid-Ebb	Bottom	4.3	16:12	9.12	8.45	30.68	25.23	3.02	4
В3	20210503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:46	9.18	8.30	30.62	25.20	2.33	2
В3	20210503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:46	9.09	8.44	30.36	25.26	2.39	3
В3	20210503	Cloudy	Moderate	Mid-Ebb	Bottom	4.5	15:45	8.92	8.35	30.59	25.07	2.54	3
В3	20210503	Cloudy	Moderate	Mid-Ebb	Bottom	4.5	15:45	9.24	8.31	30.55	25.27	2.53	3
B4	20210503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:56	8.90	8.19	31.08	25.20	2.16	2
B4	20210503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:56	9.23	8.28	30.82	25.44	2.58	3
B4	20210503	Cloudy	Moderate	Mid-Ebb	Bottom	3.5	15:55	8.85	8.21	30.62	25.25	3.49	4
B4	20210503	Cloudy	Moderate	Mid-Ebb	Bottom	3.5	15:55	9.09	8.41	30.99	25.24	3.50	3
C1A	20210503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:32	9.25	8.41	30.93	25.14	1.99	4
C1A	20210503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:32	9.10	8.53	30.42	25.09	1.95	3
C1A	20210503	Cloudy	Moderate	Mid-Ebb	Middle	5.6	15:31	9.03	8.30	30.87	25.28	2.96	4
C1A	20210503	Cloudy	Moderate	Mid-Ebb	Middle	5.6	15:31	8.90	8.19	31.04	25.32	2.88	3
C1A	20210503	Cloudy	Moderate	Mid-Ebb	Bottom	10.1	15:30	9.06	8.48	30.67	25.29	2.87	2
C1A	20210503	Cloudy	Moderate	Mid-Ebb	Bottom	10.1	15:30	9.01	8.30	30.56	25.11	3.35	2
C2A	20210503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:32	8.92	8.51	30.57	25.15	2.62	3
C2A	20210503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:32	9.18	8.26	30.93	25.28	2.90	2
C2A	20210503	Cloudy	Moderate	Mid-Ebb	Middle	5.7	15:31	9.06	8.42	30.98	25.08	2.72	4
C2A	20210503	Cloudy	Moderate	Mid-Ebb	Middle	5.7	15:31	9.24	8.32	30.96	25.20	2.96	5
C2A	20210503	Cloudy	Moderate	Mid-Ebb	Bottom	10.4	15:30	9.09	8.45	31.05	25.11	3.40	5
C2A	20210503	Cloudy	Moderate	Mid-Ebb	Bottom	10.4	15:30	9.28	8.21	30.63	25.18	3.16	4
CR1	20210503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	17:08	9.19	8.35	30.50	25.14	2.45	3
CR1	20210503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	17:08	8.84	8.52	30.54	25.19	2.84	3
CR1	20210503	Cloudy	Moderate	Mid-Ebb	Middle	6.8	17:07	8.83	8.49	31.03	25.29	2.93	3
CR1	20210503	Cloudy	Moderate	Mid-Ebb	Middle	6.8	17:07	9.23	8.38	30.52	25.17	2.73	3
CR1	20210503	Cloudy	Moderate	Mid-Ebb	Bottom	12.5	17:06	8.86	8.47	30.55	25.29	2.64	4
CR1	20210503	Cloudy	Moderate	Mid-Ebb	Bottom	12.5	17:06	9.15	8.24	30.51	25.17	2.93	5
CR2	20210503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:54	8.84	8.44	30.91	25.10	2.35	2
CR2	20210503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:54	9.24	8.46	30.52	25.37	2.75	3
CR2	20210503	Cloudy	Moderate	Mid-Ebb	Middle	5.7	16:53	9.31	8.26	30.74	25.12	2.91	3
CR2	20210503	Cloudy	Moderate	Mid-Ebb	Middle	5.7	16:53	8.81	8.46	30.43	25.25	2.71	4

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)
CR2	20210503	Cloudy	Moderate	Mid-Ebb	Bottom	10.3	16:52	9.30	8.38	31.10	25.16	3.37	5
CR2	20210503	Cloudy	Moderate	Mid-Ebb	Bottom	10.3	16:52	9.23	8.16	30.52	25.32	3.41	4
F1A	20210503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:56	8.88	8.45	31.01	25.15	2.65	4
F1A	20210503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:56	9.13	8.24	30.49	25.31	2.91	3
F1A	20210503	Cloudy	Moderate	Mid-Ebb	Middle	4.0	16:55	9.24	8.40	30.64	25.30	2.27	4
F1A	20210503	Cloudy	Moderate	Mid-Ebb	Middle	4.0	16:55	9.14	8.23	30.83	25.19	2.50	3
F1A	20210503	Cloudy	Moderate	Mid-Ebb	Bottom	6.9	16:54	9.12	8.36	30.67	25.29	3.22	4
F1A	20210503	Cloudy	Moderate	Mid-Ebb	Bottom	6.9	16:54	8.99	8.19	30.94	25.20	2.75	4
H1	20210503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:40	8.93	8.50	30.53	25.30	2.43	4
H1	20210503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:40	9.13	8.39	30.67	25.18	2.25	4
H1	20210503	Cloudy	Moderate	Mid-Ebb	Middle	4.1	16:39	9.13	8.22	30.60	25.27	2.70	4
H1	20210503	Cloudy	Moderate	Mid-Ebb	Middle	4.1	16:39	9.27	8.46	30.69	25.25	3.06	3
H1	20210503	Cloudy	Moderate	Mid-Ebb	Bottom	7.2	16:38	8.94	8.32	31.10	25.16	2.51	3
H1	20210503	Cloudy	Moderate	Mid-Ebb	Bottom	7.2	16:38	9.07	8.16	30.75	25.13	2.66	4
M1	20210503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:30	9.20	8.22	30.74	25.35	2.66	5
M1	20210503	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:30	9.28	8.20	31.01	25.30	2.96	6
M1	20210503	Cloudy	Moderate	Mid-Ebb	Middle	4.9	16:29	9.17	8.16	30.80	25.30	3.18	4
M1	20210503	Cloudy	Moderate	Mid-Ebb	Middle	4.9	16:29	9.01	8.45	30.83	25.12	2.74	4
M1	20210503	Cloudy	Moderate	Mid-Ebb	Bottom	8.7	16:28	9.14	8.24	30.76	25.09	2.58	3
M1	20210503	Cloudy	Moderate	Mid-Ebb	Bottom	8.7	16:28	9.21	8.29	30.71	25.18	2.79	4
B1	20210505	Sunny	Moderate	Mid-Ebb	Surface	1.0	08:47	8.33	8.55	29.03	27.63	2.30	6
B1	20210505	Sunny	Moderate	Mid-Ebb	Surface	1.0	08:47	8.31	8.48	28.73	27.64	2.19	5
B1	20210505	Sunny	Moderate	Mid-Ebb	Bottom	3.8	08:46	8.58	8.21	29.03	27.73	2.61	5
B1	20210505	Sunny	Moderate	Mid-Ebb	Bottom	3.8	08:46	8.92	8.53	28.74	27.63	2.81	4
B2	20210505	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:04	8.22	8.22	28.68	27.49	2.50	5
B2	20210505	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:04	8.38	8.51	28.81	27.53	2.38	5
B2	20210505	Sunny	Moderate	Mid-Ebb	Bottom	4.1	09:03	8.87	8.41	28.64	27.61	3.37	3
B2	20210505	Sunny	Moderate	Mid-Ebb	Bottom	4.1	09:03	8.93	8.53	28.93	27.65	3.46	3
В3	20210505	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:52	8.67	8.33	28.77	27.72	2.58	4
В3	20210505	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:52	8.34	8.46	28.78	27.79	3.03	4
В3	20210505	Sunny	Moderate	Mid-Ebb	Bottom	3.6	09:51	9.01	8.38	28.67	28.03	3.62	3
В3	20210505	Sunny	Moderate	Mid-Ebb	Bottom	3.6	09:51	8.62	8.24	28.58	27.78	3.54	2

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)
B4	20210505	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:38	8.39	8.46	28.58	27.66	2.86	2
B4	20210505	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:38	8.73	8.16	28.52	27.61	2.68	3
B4	20210505	Sunny	Moderate	Mid-Ebb	Bottom	3.1	09:37	8.55	8.52	28.77	27.92	2.67	5
B4	20210505	Sunny	Moderate	Mid-Ebb	Bottom	3.1	09:37	8.17	8.30	28.88	27.75	3.16	5
C1A	20210505	Sunny	Moderate	Mid-Ebb	Surface	1.0	08:20	8.84	8.36	28.55	27.60	2.54	4
C1A	20210505	Sunny	Moderate	Mid-Ebb	Surface	1.0	08:20	8.46	8.38	28.87	27.39	2.70	3
C1A	20210505	Sunny	Moderate	Mid-Ebb	Middle	5.0	08:19	8.22	8.46	28.85	27.42	3.19	4
C1A	20210505	Sunny	Moderate	Mid-Ebb	Middle	5.0	08:19	9.34	8.28	28.56	27.52	3.31	3
C1A	20210505	Sunny	Moderate	Mid-Ebb	Bottom	8.9	08:18	8.93	8.28	28.57	27.33	3.35	3
C1A	20210505	Sunny	Moderate	Mid-Ebb	Bottom	8.9	08:18	8.33	8.37	28.54	27.35	3.52	3
C2A	20210505	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:18	8.82	8.49	28.70	27.96	3.18	4
C2A	20210505	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:18	9.03	8.37	28.55	28.25	2.76	4
C2A	20210505	Sunny	Moderate	Mid-Ebb	Middle	5.8	10:17	9.15	8.24	28.65	28.38	3.10	4
C2A	20210505	Sunny	Moderate	Mid-Ebb	Middle	5.8	10:17	8.35	8.47	29.00	28.27	3.03	3
C2A	20210505	Sunny	Moderate	Mid-Ebb	Bottom	10.5	10:16	9.33	8.54	28.82	28.09	3.86	3
C2A	20210505	Sunny	Moderate	Mid-Ebb	Bottom	10.5	10:16	8.69	8.34	28.54	28.19	3.54	4
CR1	20210505	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:58	9.10	8.32	28.74	27.80	2.23	4
CR1	20210505	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:58	8.61	8.42	28.52	28.04	2.08	5
CR1	20210505	Sunny	Moderate	Mid-Ebb	Middle	6.9	09:57	8.44	8.35	28.98	28.09	2.90	3
CR1	20210505	Sunny	Moderate	Mid-Ebb	Middle	6.9	09:57	8.42	8.54	28.56	27.91	3.42	3
CR1	20210505	Sunny	Moderate	Mid-Ebb	Bottom	12.8	09:56	8.79	8.16	28.72	28.09	3.17	3
CR1	20210505	Sunny	Moderate	Mid-Ebb	Bottom	12.8	09:56	8.48	8.39	28.74	27.86	3.21	3
CR2	20210505	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:45	8.94	8.53	28.79	27.89	2.56	3
CR2	20210505	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:45	9.35	8.50	28.65	27.67	2.45	2
CR2	20210505	Sunny	Moderate	Mid-Ebb	Middle	5.8	09:44	8.97	8.23	28.61	27.94	2.95	3
CR2	20210505	Sunny	Moderate	Mid-Ebb	Middle	5.8	09:44	9.29	8.55	28.87	27.91	2.50	4
CR2	20210505	Sunny	Moderate	Mid-Ebb	Bottom	10.6	09:43	9.21	8.50	28.63	27.92	3.26	4
CR2	20210505	Sunny	Moderate	Mid-Ebb	Bottom	10.6	09:43	9.04	8.57	28.96	27.86	3.53	5
F1A	20210505	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:09	8.82	8.40	29.01	27.53	3.02	3
F1A	20210505	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:09	8.62	8.31	28.59	27.77	2.80	4
F1A	20210505	Sunny	Moderate	Mid-Ebb	Middle	4.3	09:08	8.65	8.31	28.73	27.52	2.97	5
F1A	20210505	Sunny	Moderate	Mid-Ebb	Middle	4.3	09:08	9.02	8.39	28.82	27.50	3.23	4

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)
F1A	20210505	Sunny	Moderate	Mid-Ebb	Bottom	7.6	09:07	8.54	8.17	28.82	27.68	3.19	4
F1A	20210505	Sunny	Moderate	Mid-Ebb	Bottom	7.6	09:07	8.26	8.57	28.87	27.69	3.45	5
H1	20210505	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:30	8.84	8.41	28.81	27.84	2.44	4
H1	20210505	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:30	8.84	8.18	28.96	27.74	2.73	3
H1	20210505	Sunny	Moderate	Mid-Ebb	Middle	4.1	09:29	8.66	8.21	28.97	27.65	3.08	4
H1	20210505	Sunny	Moderate	Mid-Ebb	Middle	4.1	09:29	9.27	8.49	28.70	27.73	3.00	3
H1	20210505	Sunny	Moderate	Mid-Ebb	Bottom	7.2	09:28	9.11	8.56	28.97	27.62	3.26	5
H1	20210505	Sunny	Moderate	Mid-Ebb	Bottom	7.2	09:28	8.40	8.29	28.68	27.73	3.67	4
M1	20210505	Sunny	Moderate	Mid-Ebb	Surface	1.0	08:40	8.99	8.44	28.51	27.40	2.82	5
M1	20210505	Sunny	Moderate	Mid-Ebb	Surface	1.0	08:40	8.97	8.25	28.74	27.70	2.73	4
M1	20210505	Sunny	Moderate	Mid-Ebb	Middle	4.9	08:39	8.68	8.23	28.82	27.40	3.14	3
M1	20210505	Sunny	Moderate	Mid-Ebb	Middle	4.9	08:39	9.29	8.47	28.80	27.57	3.08	4
M1	20210505	Sunny	Moderate	Mid-Ebb	Bottom	8.8	08:38	8.44	8.34	28.91	27.59	3.14	4
M1	20210505	Sunny	Moderate	Mid-Ebb	Bottom	8.8	08:38	8.14	8.37	28.88	27.59	2.62	3
B1	20210505	Sunny	Moderate	Mid-Flood	Surface	1.0	12:20	8.78	8.62	29.07	28.37	2.40	2
B1	20210505	Sunny	Moderate	Mid-Flood	Surface	1.0	12:20	8.41	8.36	29.06	28.52	2.78	2
B1	20210505	Sunny	Moderate	Mid-Flood	Bottom	3.6	12:19	9.04	8.27	29.26	28.59	3.71	3
B1	20210505	Sunny	Moderate	Mid-Flood	Bottom	3.6	12:19	8.32	8.31	29.06	28.38	3.58	3
B2	20210505	Sunny	Moderate	Mid-Flood	Surface	1.0	12:36	8.82	8.24	28.96	28.43	3.08	6
B2	20210505	Sunny	Moderate	Mid-Flood	Surface	1.0	12:36	9.05	8.61	29.11	28.53	3.28	5
B2	20210505	Sunny	Moderate	Mid-Flood	Bottom	3.8	12:35	9.03	8.21	29.05	28.45	3.18	4
B2	20210505	Sunny	Moderate	Mid-Flood	Bottom	3.8	12:35	8.69	8.21	29.16	28.27	3.36	3
В3	20210505	Sunny	Moderate	Mid-Flood	Surface	1.0	12:10	9.10	8.66	28.95	28.47	2.54	4
В3	20210505	Sunny	Moderate	Mid-Flood	Surface	1.0	12:10	8.85	8.66	28.92	28.35	2.27	3
В3	20210505	Sunny	Moderate	Mid-Flood	Bottom	4.2	12:09	8.84	8.49	29.31	28.50	2.87	3
В3	20210505	Sunny	Moderate	Mid-Flood	Bottom	4.2	12:09	8.49	8.59	29.29	28.28	2.78	4
B4	20210505	Sunny	Moderate	Mid-Flood	Surface	1.0	12:19	8.51	8.63	29.20	28.31	3.34	6
B4	20210505	Sunny	Moderate	Mid-Flood	Surface	1.0	12:19	8.39	8.26	29.11	28.30	2.95	6
B4	20210505	Sunny	Moderate	Mid-Flood	Bottom	4.1	12:18	9.10	8.62	28.99	28.38	3.80	5
B4	20210505	Sunny	Moderate	Mid-Flood	Bottom	4.1	12:18	8.90	8.57	29.28	28.44	3.62	4
C1A	20210505	Sunny	Moderate	Mid-Flood	Surface	1.0	11:55	8.70	8.53	29.21	28.56	3.40	4
C1A	20210505	Sunny	Moderate	Mid-Flood	Surface	1.0	11:55	8.58	8.54	29.10	28.44	3.66	3

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)
C1A	20210505	Sunny	Moderate	Mid-Flood	Middle	5.6	11:54	9.06	8.40	28.99	28.38	3.38	3
C1A	20210505	Sunny	Moderate	Mid-Flood	Middle	5.6	11:54	8.73	8.55	29.17	28.54	2.92	4
C1A	20210505	Sunny	Moderate	Mid-Flood	Bottom	10.1	11:53	8.86	8.54	29.15	28.52	3.14	4
C1A	20210505	Sunny	Moderate	Mid-Flood	Bottom	10.1	11:53	8.71	8.28	29.00	28.55	3.26	5
C2A	20210505	Sunny	Moderate	Mid-Flood	Surface	1.0	11:55	8.93	8.51	29.09	28.33	3.36	5
C2A	20210505	Sunny	Moderate	Mid-Flood	Surface	1.0	11:55	8.91	8.47	29.26	28.28	3.31	6
C2A	20210505	Sunny	Moderate	Mid-Flood	Middle	6.0	11:54	8.57	8.44	29.23	28.28	2.77	6
C2A	20210505	Sunny	Moderate	Mid-Flood	Middle	6.0	11:54	9.13	8.54	29.00	28.46	2.94	5
C2A	20210505	Sunny	Moderate	Mid-Flood	Bottom	11.0	11:53	8.42	8.62	28.99	28.29	3.75	6
C2A	20210505	Sunny	Moderate	Mid-Flood	Bottom	11.0	11:53	8.72	8.49	29.22	28.43	3.20	6
CR1	20210505	Sunny	Moderate	Mid-Flood	Surface	1.0	13:34	8.81	8.42	29.23	28.32	3.09	3
CR1	20210505	Sunny	Moderate	Mid-Flood	Surface	1.0	13:34	8.66	8.45	29.24	28.28	2.65	4
CR1	20210505	Sunny	Moderate	Mid-Flood	Middle	6.5	13:33	8.52	8.30	28.92	28.34	3.29	5
CR1	20210505	Sunny	Moderate	Mid-Flood	Middle	6.5	13:33	8.59	8.27	29.03	28.49	2.87	4
CR1	20210505	Sunny	Moderate	Mid-Flood	Bottom	11.9	13:32	8.68	8.30	28.98	28.38	2.91	4
CR1	20210505	Sunny	Moderate	Mid-Flood	Bottom	11.9	13:32	8.34	8.56	29.11	28.57	3.06	5
CR2	20210505	Sunny	Moderate	Mid-Flood	Surface	1.0	13:20	8.44	8.39	29.27	28.59	2.87	7
CR2	20210505	Sunny	Moderate	Mid-Flood	Surface	1.0	13:20	9.13	8.35	29.12	28.30	3.35	6
CR2	20210505	Sunny	Moderate	Mid-Flood	Middle	5.9	13:19	9.06	8.48	29.34	28.45	3.38	6
CR2	20210505	Sunny	Moderate	Mid-Flood	Middle	5.9	13:19	9.07	8.61	29.28	28.33	2.82	7
CR2	20210505	Sunny	Moderate	Mid-Flood	Bottom	10.7	13:18	8.57	8.46	28.94	28.51	3.03	5
CR2	20210505	Sunny	Moderate	Mid-Flood	Bottom	10.7	13:18	8.60	8.47	29.04	28.47	3.52	5
F1A	20210505	Sunny	Moderate	Mid-Flood	Surface	1.0	12:46	8.56	8.54	29.25	28.31	3.38	4
F1A	20210505	Sunny	Moderate	Mid-Flood	Surface	1.0	12:46	8.91	8.28	29.05	28.30	2.83	4
F1A	20210505	Sunny	Moderate	Mid-Flood	Middle	4.2	12:45	8.83	8.50	29.30	28.36	3.08	3
F1A	20210505	Sunny	Moderate	Mid-Flood	Middle	4.2	12:45	9.04	8.21	29.33	28.50	2.62	3
F1A	20210505	Sunny	Moderate	Mid-Flood	Bottom	7.4	12:44	8.33	8.55	29.22	28.32	3.10	4
F1A	20210505	Sunny	Moderate	Mid-Flood	Bottom	7.4	12:44	8.85	8.60	29.02	28.52	2.98	3
H1	20210505	Sunny	Moderate	Mid-Flood	Surface	1.0	13:05	8.54	8.59	29.19	28.52	2.89	5
H1	20210505	Sunny	Moderate	Mid-Flood	Surface	1.0	13:05	9.14	8.25	29.33	28.53	3.27	4
H1	20210505	Sunny	Moderate	Mid-Flood	Middle	4.0	13:04	8.32	8.40	29.24	28.26	2.68	5
H1	20210505	Sunny	Moderate	Mid-Flood	Middle	4.0	13:04	8.50	8.28	29.26	28.57	3.16	4

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	20210505	Sunny	Moderate	Mid-Flood	Bottom	6.9	13:03	9.03	8.46	28.94	28.42	2.87	5
H1	20210505	Sunny	Moderate	Mid-Flood	Bottom	6.9	13:03	8.77	8.21	29.28	28.41	3.05	4
M1	20210505	Sunny	Moderate	Mid-Flood	Surface	1.0	13:13	8.83	8.48	29.07	28.31	2.86	3
M1	20210505	Sunny	Moderate	Mid-Flood	Surface	1.0	13:13	9.00	8.22	29.05	28.52	2.91	4
M1	20210505	Sunny	Moderate	Mid-Flood	Middle	4.1	13:12	8.53	8.62	29.06	28.58	3.24	4
M1	20210505	Sunny	Moderate	Mid-Flood	Middle	4.1	13:12	9.17	8.18	29.19	28.43	2.93	5
M1	20210505	Sunny	Moderate	Mid-Flood	Bottom	7.2	13:11	8.53	8.59	29.27	28.26	2.79	5
M1	20210505	Sunny	Moderate	Mid-Flood	Bottom	7.2	13:11	9.17	8.23	29.19	28.52	2.79	4
B1	20210507	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:14	8.25	8.35	31.32	29.06	2.50	2
B1	20210507	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:14	9.22	8.44	31.55	28.88	2.10	2
B1	20210507	Sunny	Moderate	Mid-Ebb	Bottom	3.6	09:13	8.64	8.40	31.78	29.04	2.49	2
B1	20210507	Sunny	Moderate	Mid-Ebb	Bottom	3.6	09:13	8.38	8.38	31.74	29.04	2.64	2
B2	20210507	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:30	8.84	8.29	31.02	29.08	3.07	2
B2	20210507	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:30	9.42	8.52	30.81	28.93	2.82	2
B2	20210507	Sunny	Moderate	Mid-Ebb	Bottom	4.5	09:29	8.10	8.28	30.84	28.90	3.38	2
B2	20210507	Sunny	Moderate	Mid-Ebb	Bottom	4.5	09:29	8.05	8.28	30.91	29.03	2.91	2
В3	20210507	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:52	9.02	8.60	31.10	29.28	2.84	2
В3	20210507	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:52	8.67	8.41	31.09	29.19	2.42	2
В3	20210507	Sunny	Moderate	Mid-Ebb	Bottom	3.8	10:51	9.01	8.49	31.21	29.17	2.82	2
В3	20210507	Sunny	Moderate	Mid-Ebb	Bottom	3.8	10:51	8.68	8.40	31.59	29.33	2.41	2
B4	20210507	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:41	7.86	8.55	31.09	29.31	1.99	2
B4	20210507	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:41	9.22	8.44	31.01	29.33	2.08	2
B4	20210507	Sunny	Moderate	Mid-Ebb	Bottom	3.1	10:40	8.91	8.33	31.63	29.21	3.35	2
B4	20210507	Sunny	Moderate	Mid-Ebb	Bottom	3.1	10:40	7.84	8.33	31.16	29.18	2.82	2
C1A	20210507	Sunny	Moderate	Mid-Ebb	Surface	1.0	08:46	8.52	8.60	31.67	28.85	3.01	3
C1A	20210507	Sunny	Moderate	Mid-Ebb	Surface	1.0	08:46	8.53	8.31	31.53	29.00	2.71	2
C1A	20210507	Sunny	Moderate	Mid-Ebb	Middle	5.2	08:45	9.27	8.57	31.47	28.87	2.52	3
C1A	20210507	Sunny	Moderate	Mid-Ebb	Middle	5.2	08:45	8.04	8.53	30.84	28.81	2.89	2
C1A	20210507	Sunny	Moderate	Mid-Ebb	Bottom	9.3	08:44	8.30	8.57	31.12	28.96	3.47	2
C1A	20210507	Sunny	Moderate	Mid-Ebb	Bottom	9.3	08:44	7.82	8.34	30.95	28.91	2.96	2
C2A	20210507	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:45	9.10	8.60	30.93	29.30	2.92	2
C2A	20210507	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:45	8.35	8.29	31.36	29.16	2.91	2

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)
C2A	20210507	Sunny	Moderate	Mid-Ebb	Middle	5.8	10:44	8.68	8.49	31.05	29.13	2.91	2
C2A	20210507	Sunny	Moderate	Mid-Ebb	Middle	5.8	10:44	8.82	8.62	31.40	29.17	2.65	2
C2A	20210507	Sunny	Moderate	Mid-Ebb	Bottom	10.6	10:43	7.79	8.47	30.97	29.22	2.70	2
C2A	20210507	Sunny	Moderate	Mid-Ebb	Bottom	10.6	10:43	8.50	8.63	30.80	29.31	2.42	2
CR1	20210507	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:26	7.92	8.63	31.13	29.08	2.05	2
CR1	20210507	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:26	9.22	8.44	31.51	29.22	2.14	3
CR1	20210507	Sunny	Moderate	Mid-Ebb	Middle	6.9	10:25	8.42	8.62	30.88	29.21	2.90	2
CR1	20210507	Sunny	Moderate	Mid-Ebb	Middle	6.9	10:25	8.17	8.30	31.44	29.16	2.80	2
CR1	20210507	Sunny	Moderate	Mid-Ebb	Bottom	12.8	10:24	8.90	8.54	31.29	29.29	3.39	2
CR1	20210507	Sunny	Moderate	Mid-Ebb	Bottom	12.8	10:24	9.36	8.33	31.03	29.12	3.09	2
CR2	20210507	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:13	8.35	8.27	31.71	29.01	2.89	2
CR2	20210507	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:13	8.33	8.35	31.67	29.15	2.59	2
CR2	20210507	Sunny	Moderate	Mid-Ebb	Middle	5.5	10:12	7.80	8.40	31.47	29.13	2.08	3
CR2	20210507	Sunny	Moderate	Mid-Ebb	Middle	5.5	10:12	9.37	8.39	31.57	29.05	2.37	2
CR2	20210507	Sunny	Moderate	Mid-Ebb	Bottom	9.9	10:11	7.79	8.36	31.10	29.03	2.87	2
CR2	20210507	Sunny	Moderate	Mid-Ebb	Bottom	9.9	10:11	8.14	8.48	31.59	29.07	3.31	3
F1A	20210507	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:13	9.34	8.43	31.68	29.13	2.60	2
F1A	20210507	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:13	8.38	8.61	31.56	29.06	2.42	2
F1A	20210507	Sunny	Moderate	Mid-Ebb	Middle	4.6	10:12	7.86	8.34	30.96	29.05	2.52	2
F1A	20210507	Sunny	Moderate	Mid-Ebb	Middle	4.6	10:12	9.36	8.38	31.05	29.10	2.44	2
F1A	20210507	Sunny	Moderate	Mid-Ebb	Bottom	8.1	10:11	8.62	8.41	31.14	29.14	2.56	2
F1A	20210507	Sunny	Moderate	Mid-Ebb	Bottom	8.1	10:11	8.61	8.31	31.54	29.09	2.62	2
H1	20210507	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:58	8.09	8.49	31.16	28.95	3.08	2
H1	20210507	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:58	8.79	8.48	31.43	28.93	2.84	2
H1	20210507	Sunny	Moderate	Mid-Ebb	Middle	4.1	09:57	7.94	8.33	31.71	29.06	2.60	2
H1	20210507	Sunny	Moderate	Mid-Ebb	Middle	4.1	09:57	8.46	8.40	31.62	28.93	2.34	2
H1	20210507	Sunny	Moderate	Mid-Ebb	Bottom	7.1	09:56	8.30	8.38	31.10	28.95	2.69	2
H1	20210507	Sunny	Moderate	Mid-Ebb	Bottom	7.1	09:56	9.04	8.28	31.00	29.04	2.94	2
M1	20210507	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:45	8.45	8.34	31.43	29.09	2.55	2
M1	20210507	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:45	8.38	8.53	30.98	28.95	2.61	2
M1	20210507	Sunny	Moderate	Mid-Ebb	Middle	4.6	09:44	8.07	8.64	31.23	29.05	2.48	2
M1	20210507	Sunny	Moderate	Mid-Ebb	Middle	4.6	09:44	7.83	8.64	31.56	29.06	2.96	2

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)
M1	20210507	Sunny	Moderate	Mid-Ebb	Bottom	8.1	09:43	8.93	8.34	31.09	28.96	2.90	2
M1	20210507	Sunny	Moderate	Mid-Ebb	Bottom	8.1	09:43	9.40	8.32	31.10	29.07	3.18	2
B1	20210507	Sunny	Moderate	Mid-Flood	Surface	1.0	14:35	7.61	8.52	30.76	29.30	2.70	2
B1	20210507	Sunny	Moderate	Mid-Flood	Surface	1.0	14:35	9.27	8.30	30.56	29.30	3.06	2
B1	20210507	Sunny	Moderate	Mid-Flood	Bottom	3.9	14:34	9.23	8.50	31.17	29.24	2.62	2
B1	20210507	Sunny	Moderate	Mid-Flood	Bottom	3.9	14:34	7.86	8.35	30.53	29.19	2.55	2
B2	20210507	Sunny	Moderate	Mid-Flood	Surface	1.0	14:52	7.79	8.22	30.98	29.24	3.13	2
B2	20210507	Sunny	Moderate	Mid-Flood	Surface	1.0	14:52	8.49	8.22	30.47	29.24	2.74	2
B2	20210507	Sunny	Moderate	Mid-Flood	Bottom	3.6	14:51	8.47	8.28	30.71	29.20	3.34	3
B2	20210507	Sunny	Moderate	Mid-Flood	Bottom	3.6	14:51	9.28	8.46	30.75	29.27	3.58	4
В3	20210507	Sunny	Moderate	Mid-Flood	Surface	1.0	14:24	7.80	8.57	30.84	29.35	2.36	2
В3	20210507	Sunny	Moderate	Mid-Flood	Surface	1.0	14:24	8.28	8.54	31.21	29.28	2.12	2
В3	20210507	Sunny	Moderate	Mid-Flood	Bottom	3.8	14:23	8.84	8.52	30.44	29.09	3.20	2
В3	20210507	Sunny	Moderate	Mid-Flood	Bottom	3.8	14:23	8.52	8.30	30.88	29.16	2.75	2
B4	20210507	Sunny	Moderate	Mid-Flood	Surface	1.0	14:34	8.05	8.38	30.78	29.25	2.95	2
B4	20210507	Sunny	Moderate	Mid-Flood	Surface	1.0	14:34	8.06	8.26	31.08	29.23	2.71	2
B4	20210507	Sunny	Moderate	Mid-Flood	Bottom	3.7	14:33	9.29	8.19	31.21	29.23	2.45	2
B4	20210507	Sunny	Moderate	Mid-Flood	Bottom	3.7	14:33	9.29	8.28	31.02	29.33	2.64	2
C1A	20210507	Sunny	Moderate	Mid-Flood	Surface	1.0	14:09	8.40	8.24	30.85	29.14	2.28	2
C1A	20210507	Sunny	Moderate	Mid-Flood	Surface	1.0	14:09	7.78	8.42	30.80	29.22	2.40	2
C1A	20210507	Sunny	Moderate	Mid-Flood	Middle	5.1	14:08	8.52	8.44	30.42	29.17	3.14	2
C1A	20210507	Sunny	Moderate	Mid-Flood	Middle	5.1	14:08	9.17	8.31	31.06	29.13	3.42	2
C1A	20210507	Sunny	Moderate	Mid-Flood	Bottom	9.1	14:07	8.99	8.40	30.58	29.05	2.67	2
C1A	20210507	Sunny	Moderate	Mid-Flood	Bottom	9.1	14:07	8.88	8.37	31.11	29.12	3.00	2
C2A	20210507	Sunny	Moderate	Mid-Flood	Surface	1.0	14:09	8.74	8.24	31.08	29.03	2.83	2
C2A	20210507	Sunny	Moderate	Mid-Flood	Surface	1.0	14:09	9.03	8.32	31.15	29.03	2.72	2
C2A	20210507	Sunny	Moderate	Mid-Flood	Middle	5.7	14:08	8.98	8.56	30.57	29.04	3.38	2
C2A	20210507	Sunny	Moderate	Mid-Flood	Middle	5.7	14:08	7.90	8.36	30.92	29.09	3.24	2
C2A	20210507	Sunny	Moderate	Mid-Flood	Bottom	10.4	14:07	7.79	8.44	30.92	29.13	3.27	2
C2A	20210507	Sunny	Moderate	Mid-Flood	Bottom	10.4	14:07	9.09	8.42	30.90	29.21	2.98	2
CR1	20210507	Sunny	Moderate	Mid-Flood	Surface	1.0	15:50	8.50	8.29	30.65	29.36	2.80	2
CR1	20210507	Sunny	Moderate	Mid-Flood	Surface	1.0	15:50	8.83	8.21	30.87	29.26	2.47	2

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)
CR1	20210507	Sunny	Moderate	Mid-Flood	Middle	6.2	15:49	7.68	8.59	30.53	29.45	3.26	2
CR1	20210507	Sunny	Moderate	Mid-Flood	Middle	6.2	15:49	8.65	8.56	30.62	29.33	2.78	2
CR1	20210507	Sunny	Moderate	Mid-Flood	Bottom	11.4	15:48	8.47	8.33	30.87	29.50	3.41	2
CR1	20210507	Sunny	Moderate	Mid-Flood	Bottom	11.4	15:48	8.27	8.54	30.61	29.31	2.99	2
CR2	20210507	Sunny	Moderate	Mid-Flood	Surface	1.0	15:36	9.02	8.27	30.64	29.36	2.90	4
CR2	20210507	Sunny	Moderate	Mid-Flood	Surface	1.0	15:36	8.86	8.17	31.12	29.29	2.58	3
CR2	20210507	Sunny	Moderate	Mid-Flood	Middle	5.4	15:35	9.09	8.29	30.83	29.35	2.91	2
CR2	20210507	Sunny	Moderate	Mid-Flood	Middle	5.4	15:35	8.94	8.33	30.68	29.42	2.81	2
CR2	20210507	Sunny	Moderate	Mid-Flood	Bottom	9.8	15:34	9.24	8.42	30.98	29.26	3.22	2
CR2	20210507	Sunny	Moderate	Mid-Flood	Bottom	9.8	15:34	8.84	8.41	30.66	29.38	2.91	2
F1A	20210507	Sunny	Moderate	Mid-Flood	Surface	1.0	15:28	8.39	8.22	30.38	29.26	2.66	2
F1A	20210507	Sunny	Moderate	Mid-Flood	Surface	1.0	15:28	8.85	8.24	30.95	29.38	2.29	2
F1A	20210507	Sunny	Moderate	Mid-Flood	Middle	4.2	15:27	7.96	8.58	30.40	29.46	2.31	2
F1A	20210507	Sunny	Moderate	Mid-Flood	Middle	4.2	15:27	8.57	8.35	30.47	29.19	2.22	2
F1A	20210507	Sunny	Moderate	Mid-Flood	Bottom	7.4	15:26	8.70	8.43	30.99	29.34	2.54	2
F1A	20210507	Sunny	Moderate	Mid-Flood	Bottom	7.4	15:26	8.82	8.20	30.67	29.35	2.81	2
H1	20210507	Sunny	Moderate	Mid-Flood	Surface	1.0	15:21	7.79	8.59	30.42	29.43	3.11	2
H1	20210507	Sunny	Moderate	Mid-Flood	Surface	1.0	15:21	7.81	8.32	30.42	29.21	2.78	2
H1	20210507	Sunny	Moderate	Mid-Flood	Middle	4.1	15:20	7.86	8.27	31.20	29.23	2.39	2
H1	20210507	Sunny	Moderate	Mid-Flood	Middle	4.1	15:20	8.32	8.54	30.71	29.40	2.73	2
H1	20210507	Sunny	Moderate	Mid-Flood	Bottom	7.2	15:19	8.27	8.56	30.40	29.40	2.56	2
H1	20210507	Sunny	Moderate	Mid-Flood	Bottom	7.2	15:19	7.87	8.25	30.42	29.28	2.84	2
M1	20210507	Sunny	Moderate	Mid-Flood	Surface	1.0	15:01	8.51	8.28	31.19	29.09	2.79	2
M1	20210507	Sunny	Moderate	Mid-Flood	Surface	1.0	15:01	8.53	8.46	30.47	29.22	2.48	2
M1	20210507	Sunny	Moderate	Mid-Flood	Middle	3.9	15:00	8.60	8.29	30.92	29.25	2.27	2
M1	20210507	Sunny	Moderate	Mid-Flood	Middle	3.9	15:00	7.86	8.45	30.52	29.36	2.62	2
M1	20210507	Sunny	Moderate	Mid-Flood	Bottom	6.7	14:59	9.26	8.41	31.05	29.31	3.46	2
M1	20210507	Sunny	Moderate	Mid-Flood	Bottom	6.7	14:59	8.34	8.30	30.72	29.32	3.45	2
B1	20210510	Sunny	Modertae	Mid-Ebb	Surface	1.0	10:43	8.08	8.79	28.73	29.16	2.63	11
B1	20210510	Sunny	Modertae	Mid-Ebb	Surface	1.0	10:43	8.91	8.74	29.25	28.97	2.89	6
B1	20210510	Sunny	Modertae	Mid-Ebb	Bottom	3.8	10:42	9.44	8.62	29.49	29.00	3.16	5
B1	20210510	Sunny	Modertae	Mid-Ebb	Bottom	3.8	10:42	8.36	8.55	28.69	29.08	3.34	4

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)
B2	20210510	Sunny	Modertae	Mid-Ebb	Surface	1.0	11:00	8.78	8.77	28.98	29.01	3.49	5
B2	20210510	Sunny	Modertae	Mid-Ebb	Surface	1.0	11:00	8.91	8.54	29.25	29.25	3.72	6
B2	20210510	Sunny	Modertae	Mid-Ebb	Bottom	4.0	10:59	8.92	8.72	29.02	29.14	3.62	4
B2	20210510	Sunny	Modertae	Mid-Ebb	Bottom	4.0	10:59	9.28	8.57	29.03	29.23	3.80	4
В3	20210510	Sunny	Modertae	Mid-Ebb	Surface	1.0	12:07	8.41	8.60	29.23	29.30	2.92	4
В3	20210510	Sunny	Modertae	Mid-Ebb	Surface	1.0	12:07	9.05	8.55	29.21	29.34	3.28	3
В3	20210510	Sunny	Modertae	Mid-Ebb	Bottom	3.5	12:06	7.94	8.76	29.35	29.42	3.84	3
В3	20210510	Sunny	Modertae	Mid-Ebb	Bottom	3.5	12:06	8.69	8.51	29.38	29.33	3.65	3
B4	20210510	Sunny	Modertae	Mid-Ebb	Surface	1.0	11:56	8.86	8.48	28.83	29.13	2.92	2
B4	20210510	Sunny	Modertae	Mid-Ebb	Surface	1.0	11:56	9.17	8.56	28.84	29.26	3.00	2
B4	20210510	Sunny	Modertae	Mid-Ebb	Bottom	3.4	11:55	7.95	8.73	29.32	29.31	3.82	4
B4	20210510	Sunny	Modertae	Mid-Ebb	Bottom	3.4	11:55	8.92	8.58	29.07	29.23	3.64	5
C1A	20210510	Sunny	Modertae	Mid-Ebb	Surface	1.0	10:17	9.33	8.76	28.96	29.14	3.94	5
C1A	20210510	Sunny	Modertae	Mid-Ebb	Surface	1.0	10:17	9.06	8.77	29.29	29.11	3.68	4
C1A	20210510	Sunny	Modertae	Mid-Ebb	Middle	5.4	10:16	8.07	8.77	29.56	28.99	4.07	5
C1A	20210510	Sunny	Modertae	Mid-Ebb	Middle	5.4	10:16	9.11	8.45	29.47	29.13	4.84	4
C1A	20210510	Sunny	Modertae	Mid-Ebb	Bottom	9.7	10:15	8.02	8.67	28.87	29.17	3.93	4
C1A	20210510	Sunny	Modertae	Mid-Ebb	Bottom	9.7	10:15	9.31	8.57	29.45	29.11	4.51	3
C2A	20210510	Sunny	Modertae	Mid-Ebb	Surface	1.0	12:18	8.96	8.64	29.47	29.41	4.24	5
C2A	20210510	Sunny	Modertae	Mid-Ebb	Surface	1.0	12:18	8.79	8.78	28.61	29.29	3.97	4
C2A	20210510	Sunny	Modertae	Mid-Ebb	Middle	6.0	12:17	8.19	8.68	28.87	29.18	3.84	4
C2A	20210510	Sunny	Modertae	Mid-Ebb	Middle	6.0	12:17	8.50	8.45	28.60	29.34	3.35	5
C2A	20210510	Sunny	Modertae	Mid-Ebb	Bottom	11.0	12:16	9.16	8.77	28.72	29.35	4.66	4
C2A	20210510	Sunny	Modertae	Mid-Ebb	Bottom	11.0	12:16	8.59	8.60	29.05	29.24	4.58	3
CR1	20210510	Sunny	Modertae	Mid-Ebb	Surface	1.0	11:58	9.45	8.67	28.67	29.16	3.36	5
CR1	20210510	Sunny	Modertae	Mid-Ebb	Surface	1.0	11:58	9.41	8.79	29.11	29.25	2.88	4
CR1	20210510	Sunny	Modertae	Mid-Ebb	Middle	6.2	11:57	9.27	8.68	29.40	29.34	3.25	5
CR1	20210510	Sunny	Modertae	Mid-Ebb	Middle	6.2	11:57	9.08	8.69	29.34	29.33	3.79	4
CR1	20210510	Sunny	Modertae	Mid-Ebb	Bottom	11.3	11:56	9.30	8.55	29.44	29.10	3.48	5
CR1	20210510	Sunny	Modertae	Mid-Ebb	Bottom	11.3	11:56	8.22	8.48	29.54	29.13	3.97	4
CR2	20210510	Sunny	Modertae	Mid-Ebb	Surface	1.0	11:45	8.29	8.47	28.93	29.12	3.07	4
CR2	20210510	Sunny	Modertae	Mid-Ebb	Surface	1.0	11:45	9.37	8.60	28.99	29.21	2.69	5

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)
CR2	20210510	Sunny	Modertae	Mid-Ebb	Middle	5.5	11:44	9.49	8.65	28.60	29.28	3.28	5
CR2	20210510	Sunny	Modertae	Mid-Ebb	Middle	5.5	11:44	9.00	8.50	28.84	29.14	2.74	4
CR2	20210510	Sunny	Modertae	Mid-Ebb	Bottom	10.0	11:43	9.39	8.57	29.12	29.21	4.05	5
CR2	20210510	Sunny	Modertae	Mid-Ebb	Bottom	10.0	11:43	8.15	8.62	29.27	29.20	3.89	6
F1A	20210510	Sunny	Modertae	Mid-Ebb	Surface	1.0	11:26	8.53	8.48	28.68	29.16	3.10	3
F1A	20210510	Sunny	Modertae	Mid-Ebb	Surface	1.0	11:26	8.09	8.73	29.49	29.16	3.54	2
F1A	20210510	Sunny	Modertae	Mid-Ebb	Middle	4.1	11:25	9.43	8.52	29.23	29.30	3.09	5
F1A	20210510	Sunny	Modertae	Mid-Ebb	Middle	4.1	11:25	9.40	8.45	28.73	29.23	2.97	4
F1A	20210510	Sunny	Modertae	Mid-Ebb	Bottom	7.2	11:24	8.68	8.50	29.42	29.29	3.19	5
F1A	20210510	Sunny	Modertae	Mid-Ebb	Bottom	7.2	11:24	7.99	8.55	28.91	29.14	3.24	4
H1	20210510	Sunny	Modertae	Mid-Ebb	Surface	1.0	11:29	8.04	8.74	28.65	29.02	2.42	5
H1	20210510	Sunny	Modertae	Mid-Ebb	Surface	1.0	11:29	9.07	8.67	28.94	29.01	2.59	4
H1	20210510	Sunny	Modertae	Mid-Ebb	Middle	3.9	11:28	9.08	8.79	29.03	29.02	3.36	4
H1	20210510	Sunny	Modertae	Mid-Ebb	Middle	3.9	11:28	9.01	8.72	28.94	29.14	3.34	5
H1	20210510	Sunny	Modertae	Mid-Ebb	Bottom	6.8	11:27	7.90	8.81	28.93	29.12	3.12	3
H1	20210510	Sunny	Modertae	Mid-Ebb	Bottom	6.8	11:27	8.51	8.63	29.12	29.21	3.22	3
M1	20210510	Sunny	Modertae	Mid-Ebb	Surface	1.0	10:59	9.01	8.64	28.83	29.01	2.64	6
M1	20210510	Sunny	Modertae	Mid-Ebb	Surface	1.0	10:59	8.26	8.58	29.32	29.02	2.82	7
M1	20210510	Sunny	Modertae	Mid-Ebb	Middle	4.7	10:58	8.35	8.74	29.07	29.02	2.83	5
M1	20210510	Sunny	Modertae	Mid-Ebb	Middle	4.7	10:58	8.71	8.68	28.92	29.15	2.58	6
M1	20210510	Sunny	Modertae	Mid-Ebb	Bottom	8.4	10:57	9.41	8.70	29.48	29.20	4.25	4
M1	20210510	Sunny	Modertae	Mid-Ebb	Bottom	8.4	10:57	8.70	8.75	28.58	29.19	3.82	4
B1	20210510	Sunny	Modertae	Mid-Flood	Surface	1.0	15:58	7.69	8.73	28.77	29.78	2.71	3
B1	20210510	Sunny	Modertae	Mid-Flood	Surface	1.0	15:58	8.28	8.67	28.69	29.85	2.79	2
B1	20210510	Sunny	Modertae	Mid-Flood	Bottom	3.7	15:57	9.13	8.57	28.58	29.74	3.09	3
B1	20210510	Sunny	Modertae	Mid-Flood	Bottom	3.7	15:57	8.48	8.37	29.06	29.86	3.46	4
B2	20210510	Sunny	Modertae	Mid-Flood	Surface	1.0	16:16	8.33	8.43	29.00	29.68	2.86	3
B2	20210510	Sunny	Modertae	Mid-Flood	Surface	1.0	16:16	8.20	8.66	28.76	29.55	2.61	2
B2	20210510	Sunny	Modertae	Mid-Flood	Bottom	3.9	16:15	8.56	8.43	28.63	29.64	3.57	4
B2	20210510	Sunny	Modertae	Mid-Flood	Bottom	3.9	16:15	7.84	8.54	28.87	29.55	3.12	3
В3	20210510	Sunny	Modertae	Mid-Flood	Surface	1.0	15:51	8.79	8.64	29.12	29.82	2.82	3
В3	20210510	Sunny	Modertae	Mid-Flood	Surface	1.0	15:51	8.08	8.37	28.47	29.74	2.92	2

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)
В3	20210510	Sunny	Modertae	Mid-Flood	Bottom	3.6	15:50	9.02	8.69	28.41	29.81	3.34	3
В3	20210510	Sunny	Modertae	Mid-Flood	Bottom	3.6	15:50	8.37	8.57	28.44	29.74	2.97	3
B4	20210510	Sunny	Modertae	Mid-Flood	Surface	1.0	16:01	8.31	8.57	28.61	29.70	3.04	2
B4	20210510	Sunny	Modertae	Mid-Flood	Surface	1.0	16:01	8.07	8.68	28.45	29.63	3.36	3
B4	20210510	Sunny	Modertae	Mid-Flood	Bottom	3.7	16:00	7.77	8.62	28.51	29.72	3.23	2
B4	20210510	Sunny	Modertae	Mid-Flood	Bottom	3.7	16:00	8.28	8.38	29.21	29.75	3.59	3
C1A	20210510	Sunny	Modertae	Mid-Flood	Surface	1.0	15:36	8.86	8.73	28.58	30.20	2.72	4
C1A	20210510	Sunny	Modertae	Mid-Flood	Surface	1.0	15:36	8.10	8.41	28.83	30.06	3.24	3
C1A	20210510	Sunny	Modertae	Mid-Flood	Middle	5.4	15:35	9.44	8.54	28.91	30.09	3.40	2
C1A	20210510	Sunny	Modertae	Mid-Flood	Middle	5.4	15:35	8.03	8.55	28.46	30.07	3.35	3
C1A	20210510	Sunny	Modertae	Mid-Flood	Bottom	9.8	15:34	9.06	8.38	29.16	30.12	3.51	2
C1A	20210510	Sunny	Modertae	Mid-Flood	Bottom	9.8	15:34	8.32	8.50	28.66	30.20	3.84	3
C2A	20210510	Sunny	Modertae	Mid-Flood	Surface	1.0	15:35	8.74	8.52	28.81	30.09	3.36	2
C2A	20210510	Sunny	Modertae	Mid-Flood	Surface	1.0	15:35	8.45	8.45	29.00	30.19	3.71	3
C2A	20210510	Sunny	Modertae	Mid-Flood	Middle	5.8	15:34	8.95	8.59	28.98	30.18	3.66	5
C2A	20210510	Sunny	Modertae	Mid-Flood	Middle	5.8	15:34	9.07	8.49	28.64	30.00	3.90	4
C2A	20210510	Sunny	Modertae	Mid-Flood	Bottom	10.6	15:33	8.77	8.41	28.51	30.18	3.58	4
C2A	20210510	Sunny	Modertae	Mid-Flood	Bottom	10.6	15:33	8.86	8.48	29.01	30.12	3.25	5
CR1	20210510	Sunny	Modertae	Mid-Flood	Surface	1.0	17:13	9.39	8.52	29.21	29.59	3.27	3
CR1	20210510	Sunny	Modertae	Mid-Flood	Surface	1.0	17:13	9.33	8.45	28.79	29.71	2.91	3
CR1	20210510	Sunny	Modertae	Mid-Flood	Middle	6.4	17:12	8.86	8.61	28.80	29.70	3.28	3
CR1	20210510	Sunny	Modertae	Mid-Flood	Middle	6.4	17:12	9.17	8.77	28.62	29.63	3.42	4
CR1	20210510	Sunny	Modertae	Mid-Flood	Bottom	11.8	17:11	8.73	8.48	29.21	29.66	2.90	3
CR1	20210510	Sunny	Modertae	Mid-Flood	Bottom	11.8	17:11	7.78	8.38	28.81	29.58	3.01	4
CR2	20210510	Sunny	Modertae	Mid-Flood	Surface	1.0	17:00	8.33	8.50	28.57	29.71	2.76	6
CR2	20210510	Sunny	Modertae	Mid-Flood	Surface	1.0	17:00	9.06	8.51	28.88	29.60	2.40	5
CR2	20210510	Sunny	Modertae	Mid-Flood	Middle	5.4	16:59	8.66	8.57	28.95	29.69	3.56	5
CR2	20210510	Sunny	Modertae	Mid-Flood	Middle	5.4	16:59	8.15	8.73	28.99	29.63	3.00	5
CR2	20210510	Sunny	Modertae	Mid-Flood	Bottom	9.7	16:58	8.42	8.44	29.03	29.72	2.99	5
CR2	20210510	Sunny	Modertae	Mid-Flood	Bottom	9.7	16:58	7.96	8.41	28.72	29.64	3.02	4
F1A	20210510	Sunny	Modertae	Mid-Flood	Surface	1.0	16:27	8.93	8.42	28.93	29.60	3.34	2
F1A	20210510	Sunny	Modertae	Mid-Flood	Surface	1.0	16:27	8.40	8.63	29.11	29.62	3.00	2

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)
F1A	20210510	Sunny	Modertae	Mid-Flood	Middle	4.2	16:26	8.74	8.36	29.12	29.64	3.22	3
F1A	20210510	Sunny	Modertae	Mid-Flood	Middle	4.2	16:26	9.04	8.46	28.83	29.57	3.31	4
F1A	20210510	Sunny	Modertae	Mid-Flood	Bottom	7.3	16:25	7.81	8.74	28.98	29.63	2.84	3
F1A	20210510	Sunny	Modertae	Mid-Flood	Bottom	7.3	16:25	8.71	8.49	29.01	29.58	2.89	4
H1	20210510	Sunny	Modertae	Mid-Flood	Surface	1.0	16:47	8.12	8.67	29.04	29.74	3.05	4
H1	20210510	Sunny	Modertae	Mid-Flood	Surface	1.0	16:47	7.77	8.70	28.90	29.75	3.48	4
H1	20210510	Sunny	Modertae	Mid-Flood	Middle	4.0	16:46	7.73	8.79	28.84	29.60	3.43	3
H1	20210510	Sunny	Modertae	Mid-Flood	Middle	4.0	16:46	8.10	8.58	28.91	29.59	3.01	4
H1	20210510	Sunny	Modertae	Mid-Flood	Bottom	7.0	16:45	8.27	8.66	28.75	29.61	3.01	3
H1	20210510	Sunny	Modertae	Mid-Flood	Bottom	7.0	16:45	7.89	8.50	29.16	29.66	2.99	3
M1	20210510	Sunny	Modertae	Mid-Flood	Surface	1.0	16:55	8.36	8.69	28.66	29.57	2.85	5
M1	20210510	Sunny	Modertae	Mid-Flood	Surface	1.0	16:55	9.16	8.57	28.80	29.67	2.87	4
M1	20210510	Sunny	Modertae	Mid-Flood	Middle	3.8	16:54	9.01	8.57	28.80	29.70	2.90	4
M1	20210510	Sunny	Modertae	Mid-Flood	Middle	3.8	16:54	8.43	8.55	28.66	29.69	2.70	5
M1	20210510	Sunny	Modertae	Mid-Flood	Bottom	6.5	16:53	8.91	8.69	28.43	29.56	3.31	3
M1	20210510	Sunny	Modertae	Mid-Flood	Bottom	6.5	16:53	9.14	8.39	28.59	29.59	3.77	4
B1	20210512	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:37	9.37	8.62	30.06	29.30	2.85	5
B1	20210512	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:37	9.62	8.39	29.56	29.23	2.83	5
B1	20210512	Sunny	Moderate	Mid-Ebb	Bottom	3.7	11:36	9.72	8.31	30.39	29.42	3.38	3
B1	20210512	Sunny	Moderate	Mid-Ebb	Bottom	3.7	11:36	9.91	8.42	30.38	29.26	2.86	3
B2	20210512	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:53	9.65	8.44	29.81	29.30	2.68	3
B2	20210512	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:53	9.64	8.32	30.00	29.21	2.41	4
B2	20210512	Sunny	Moderate	Mid-Ebb	Bottom	4.9	11:52	9.96	8.31	29.88	29.30	3.38	3
B2	20210512	Sunny	Moderate	Mid-Ebb	Bottom	4.9	11:52	9.85	8.42	29.69	29.36	2.86	4
В3	20210512	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:45	9.51	8.33	29.63	29.34	2.32	3
В3	20210512	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:45	9.72	8.37	29.60	29.40	2.49	3
В3	20210512	Sunny	Moderate	Mid-Ebb	Bottom	4.1	12:44	9.70	8.60	30.08	29.34	2.67	4
В3	20210512	Sunny	Moderate	Mid-Ebb	Bottom	4.1	12:44	9.64	8.45	29.65	29.39	2.71	4
B4	20210512	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:33	10.02	8.52	30.32	29.37	2.21	5
B4	20210512	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:33	9.43	8.31	29.96	29.25	2.57	5
B4	20210512	Sunny	Moderate	Mid-Ebb	Bottom	3.2	12:32	9.28	8.56	30.03	29.36	3.67	3
В4	20210512	Sunny	Moderate	Mid-Ebb	Bottom	3.2	12:32	9.96	8.50	29.84	29.36	3.24	3

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)
C1A	20210512	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:09	9.43	8.51	30.30	29.26	3.16	4
C1A	20210512	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:09	9.34	8.49	30.20	29.23	3.53	3
C1A	20210512	Sunny	Moderate	Mid-Ebb	Middle	5.2	11:08	9.59	8.47	30.01	29.35	3.56	4
C1A	20210512	Sunny	Moderate	Mid-Ebb	Middle	5.2	11:08	9.64	8.59	29.98	29.20	3.33	3
C1A	20210512	Sunny	Moderate	Mid-Ebb	Bottom	9.3	11:07	10.08	8.58	29.76	29.33	3.05	9
C1A	20210512	Sunny	Moderate	Mid-Ebb	Bottom	9.3	11:07	9.34	8.27	29.77	29.06	3.65	9
C2A	20210512	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:07	10.05	8.31	29.61	29.72	3.45	4
C2A	20210512	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:07	9.49	8.59	30.40	29.58	3.47	4
C2A	20210512	Sunny	Moderate	Mid-Ebb	Middle	6.1	13:06	9.68	8.58	29.85	29.73	3.42	5
C2A	20210512	Sunny	Moderate	Mid-Ebb	Middle	6.1	13:06	9.41	8.33	30.39	29.70	2.89	4
C2A	20210512	Sunny	Moderate	Mid-Ebb	Bottom	11.1	13:05	9.44	8.31	29.79	29.66	3.20	5
C2A	20210512	Sunny	Moderate	Mid-Ebb	Bottom	11.1	13:05	10.05	8.34	30.50	29.60	3.65	4
CR1	20210512	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:47	10.01	8.43	29.77	29.58	3.17	5
CR1	20210512	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:47	9.25	8.42	29.68	29.50	3.36	4
CR1	20210512	Sunny	Moderate	Mid-Ebb	Middle	6.4	12:46	10.10	8.50	30.29	29.49	3.31	5
CR1	20210512	Sunny	Moderate	Mid-Ebb	Middle	6.4	12:46	9.26	8.61	29.98	29.71	3.49	4
CR1	20210512	Sunny	Moderate	Mid-Ebb	Bottom	11.7	12:45	9.26	8.42	30.26	29.58	2.78	4
CR1	20210512	Sunny	Moderate	Mid-Ebb	Bottom	11.7	12:45	10.08	8.48	29.90	29.59	3.14	3
CR2	20210512	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:35	9.90	8.34	30.23	29.46	2.46	5
CR2	20210512	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:35	9.22	8.62	29.67	29.48	2.69	4
CR2	20210512	Sunny	Moderate	Mid-Ebb	Middle	5.9	12:34	9.63	8.31	30.27	29.49	3.43	5
CR2	20210512	Sunny	Moderate	Mid-Ebb	Middle	5.9	12:34	9.40	8.43	29.93	29.35	3.43	4
CR2	20210512	Sunny	Moderate	Mid-Ebb	Bottom	10.7	12:33	9.61	8.31	29.75	29.36	3.21	4
CR2	20210512	Sunny	Moderate	Mid-Ebb	Bottom	10.7	12:33	9.29	8.61	29.96	29.59	3.15	4
F1A	20210512	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:05	9.77	8.46	30.04	29.30	2.96	8
F1A	20210512	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:05	9.59	8.38	29.88	29.27	3.21	9
F1A	20210512	Sunny	Moderate	Mid-Ebb	Middle	4.3	12:04	9.75	8.37	30.02	29.27	2.35	8
F1A	20210512	Sunny	Moderate	Mid-Ebb	Middle	4.3	12:04	9.47	8.55	30.39	29.22	2.17	9
F1A	20210512	Sunny	Moderate	Mid-Ebb	Bottom	7.6	12:03	9.80	8.53	29.90	29.43	2.67	7
F1A	20210512	Sunny	Moderate	Mid-Ebb	Bottom	7.6	12:03	9.38	8.32	29.76	29.47	3.05	7
H1	20210512	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:21	9.45	8.61	30.14	29.41	2.87	5
H1	20210512	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:21	9.57	8.27	29.97	29.42	2.96	5

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	20210512	Sunny	Moderate	Mid-Ebb	Middle	4.2	12:20	9.47	8.40	29.64	29.33	2.67	4
H1	20210512	Sunny	Moderate	Mid-Ebb	Middle	4.2	12:20	9.48	8.40	30.50	29.48	2.34	5
H1	20210512	Sunny	Moderate	Mid-Ebb	Bottom	7.3	12:19	10.02	8.40	30.41	29.29	3.20	4
H1	20210512	Sunny	Moderate	Mid-Ebb	Bottom	7.3	12:19	9.27	8.51	29.81	29.36	3.41	4
M1	20210512	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:36	9.95	8.60	29.94	29.32	2.96	6
M1	20210512	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:36	10.11	8.30	29.94	29.25	2.85	5
M1	20210512	Sunny	Moderate	Mid-Ebb	Middle	4.8	11:35	9.27	8.28	29.58	29.42	2.50	4
M1	20210512	Sunny	Moderate	Mid-Ebb	Middle	4.8	11:35	9.98	8.30	29.90	29.37	2.42	4
M1	20210512	Sunny	Moderate	Mid-Ebb	Bottom	8.5	11:34	9.99	8.59	30.54	29.41	3.59	4
M1	20210512	Sunny	Moderate	Mid-Ebb	Bottom	8.5	11:34	9.27	8.59	30.24	29.33	3.18	5
B1	20210512	Sunny	Moderate	Mid-Flood	Surface	1.0	16:00	8.68	8.72	30.06	29.40	3.45	4
B1	20210512	Sunny	Moderate	Mid-Flood	Surface	1.0	16:00	9.54	8.36	30.08	29.31	2.99	5
B1	20210512	Sunny	Moderate	Mid-Flood	Bottom	4.0	15:59	9.63	8.47	29.63	29.30	3.11	4
B1	20210512	Sunny	Moderate	Mid-Flood	Bottom	4.0	15:59	8.54	8.41	30.04	29.31	3.45	4
B2	20210512	Sunny	Moderate	Mid-Flood	Surface	1.0	16:17	9.39	8.42	30.13	29.29	2.24	4
B2	20210512	Sunny	Moderate	Mid-Flood	Surface	1.0	16:17	9.31	8.53	29.56	29.16	2.47	4
B2	20210512	Sunny	Moderate	Mid-Flood	Bottom	3.4	16:16	9.65	8.73	30.33	29.26	3.98	3
B2	20210512	Sunny	Moderate	Mid-Flood	Bottom	3.4	16:16	8.35	8.34	29.72	29.22	3.63	4
В3	20210512	Sunny	Moderate	Mid-Flood	Surface	1.0	15:51	9.43	8.29	30.00	29.36	2.53	4
В3	20210512	Sunny	Moderate	Mid-Flood	Surface	1.0	15:51	9.45	8.67	29.78	29.36	2.34	4
В3	20210512	Sunny	Moderate	Mid-Flood	Bottom	4.1	15:50	8.55	8.63	30.18	29.35	3.27	3
В3	20210512	Sunny	Moderate	Mid-Flood	Bottom	4.1	15:50	9.94	8.30	30.32	29.42	3.86	3
B4	20210512	Sunny	Moderate	Mid-Flood	Surface	1.0	16:00	9.67	8.62	29.76	29.41	2.38	4
B4	20210512	Sunny	Moderate	Mid-Flood	Surface	1.0	16:00	9.81	8.64	30.39	29.45	2.58	5
B4	20210512	Sunny	Moderate	Mid-Flood	Bottom	4.6	15:59	10.09	8.53	30.38	29.40	2.85	5
B4	20210512	Sunny	Moderate	Mid-Flood	Bottom	4.6	15:59	10.07	8.73	29.57	29.46	2.47	4
C1A	20210512	Sunny	Moderate	Mid-Flood	Surface	1.0	15:32	9.30	8.38	30.34	29.49	3.06	3
C1A	20210512	Sunny	Moderate	Mid-Flood	Surface	1.0	15:32	8.47	8.40	29.68	29.47	2.67	2
C1A	20210512	Sunny	Moderate	Mid-Flood	Middle	6.0	15:31	9.55	8.48	29.90	29.53	3.24	3
C1A	20210512	Sunny	Moderate	Mid-Flood	Middle	6.0	15:31	9.86	8.66	29.62	29.46	3.41	3
C1A	20210512	Sunny	Moderate	Mid-Flood	Bottom	11.0	15:30	9.36	8.56	29.60	29.37	3.56	4
C1A	20210512	Sunny	Moderate	Mid-Flood	Bottom	11.0	15:30	8.95	8.63	30.22	29.35	3.67	5

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)
C2A	20210512	Sunny	Moderate	Mid-Flood	Surface	1.0	15:32	8.84	8.70	30.08	29.61	2.71	4
C2A	20210512	Sunny	Moderate	Mid-Flood	Surface	1.0	15:32	9.05	8.55	29.70	29.56	2.97	5
C2A	20210512	Sunny	Moderate	Mid-Flood	Middle	5.6	15:31	9.34	8.51	29.94	29.55	3.07	4
C2A	20210512	Sunny	Moderate	Mid-Flood	Middle	5.6	15:31	9.00	8.66	29.89	29.44	3.22	4
C2A	20210512	Sunny	Moderate	Mid-Flood	Bottom	10.1	15:30	9.09	8.53	29.86	29.43	3.67	3
C2A	20210512	Sunny	Moderate	Mid-Flood	Bottom	10.1	15:30	9.71	8.65	30.25	29.53	3.50	4
CR1	20210512	Sunny	Moderate	Mid-Flood	Surface	1.0	17:11	9.95	8.45	29.81	29.12	2.61	4
CR1	20210512	Sunny	Moderate	Mid-Flood	Surface	1.0	17:11	9.49	8.34	30.10	29.06	2.68	3
CR1	20210512	Sunny	Moderate	Mid-Flood	Middle	6.3	17:10	10.04	8.49	30.20	29.15	3.10	3
CR1	20210512	Sunny	Moderate	Mid-Flood	Middle	6.3	17:10	10.02	8.57	30.24	29.09	3.16	3
CR1	20210512	Sunny	Moderate	Mid-Flood	Bottom	11.5	17:09	9.23	8.31	29.82	29.18	3.00	2
CR1	20210512	Sunny	Moderate	Mid-Flood	Bottom	11.5	17:09	8.74	8.68	30.24	29.11	3.53	3
CR2	20210512	Sunny	Moderate	Mid-Flood	Surface	1.0	17:00	9.79	8.72	30.07	29.14	2.91	2
CR2	20210512	Sunny	Moderate	Mid-Flood	Surface	1.0	17:00	9.54	8.56	29.66	29.10	2.76	2
CR2	20210512	Sunny	Moderate	Mid-Flood	Middle	5.4	16:59	8.67	8.50	29.73	29.21	3.22	3
CR2	20210512	Sunny	Moderate	Mid-Flood	Middle	5.4	16:59	8.57	8.41	30.38	29.07	3.37	2
CR2	20210512	Sunny	Moderate	Mid-Flood	Bottom	9.7	16:58	9.78	8.31	29.66	29.22	3.46	4
CR2	20210512	Sunny	Moderate	Mid-Flood	Bottom	9.7	16:58	8.75	8.47	29.62	29.11	3.54	4
F1A	20210512	Sunny	Moderate	Mid-Flood	Surface	1.0	16:28	9.60	8.46	29.81	29.33	2.95	4
F1A	20210512	Sunny	Moderate	Mid-Flood	Surface	1.0	16:28	8.48	8.61	30.07	29.29	2.94	4
F1A	20210512	Sunny	Moderate	Mid-Flood	Middle	4.4	16:27	8.54	8.57	29.76	29.19	3.06	3
F1A	20210512	Sunny	Moderate	Mid-Flood	Middle	4.4	16:27	8.52	8.38	30.20	29.33	2.64	3
F1A	20210512	Sunny	Moderate	Mid-Flood	Bottom	7.8	16:26	9.92	8.62	30.05	29.16	2.90	3
F1A	20210512	Sunny	Moderate	Mid-Flood	Bottom	7.8	16:26	9.97	8.65	29.76	29.33	3.36	3
H1	20210512	Sunny	Moderate	Mid-Flood	Surface	1.0	16:46	9.11	8.53	30.17	29.34	2.80	2
H1	20210512	Sunny	Moderate	Mid-Flood	Surface	1.0	16:46	10.10	8.43	30.12	29.27	2.78	3
H1	20210512	Sunny	Moderate	Mid-Flood	Middle	3.9	16:45	10.00	8.52	29.67	29.15	3.16	4
H1	20210512	Sunny	Moderate	Mid-Flood	Middle	3.9	16:45	8.70	8.47	30.35	29.36	3.65	3
H1	20210512	Sunny	Moderate	Mid-Flood	Bottom	6.7	16:44	9.44	8.46	29.69	29.22	3.31	4
H1	20210512	Sunny	Moderate	Mid-Flood	Bottom	6.7	16:44	9.67	8.44	29.95	29.16	3.63	3
M1	20210512	Sunny	Moderate	Mid-Flood	Surface	1.0	16:55	8.61	8.29	30.38	29.27	3.09	2
M1	20210512	Sunny	Moderate	Mid-Flood	Surface	1.0	16:55	8.32	8.46	29.82	29.11	2.67	3

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)
M1	20210512	Sunny	Moderate	Mid-Flood	Middle	4.2	16:54	9.74	8.63	30.11	29.22	3.35	4
M1	20210512	Sunny	Moderate	Mid-Flood	Middle	4.2	16:54	8.92	8.65	29.78	29.13	3.24	3
M1	20210512	Sunny	Moderate	Mid-Flood	Bottom	7.4	16:53	8.48	8.54	29.96	29.21	3.05	4
M1	20210512	Sunny	Moderate	Mid-Flood	Bottom	7.4	16:53	10.05	8.44	30.27	29.26	2.93	3
B1	20210514	Sunny	Moderate	Mid-Flood	Surface	1.0	09:22	8.68	8.21	31.62	29.36	3.23	4
B1	20210514	Sunny	Moderate	Mid-Flood	Surface	1.0	09:22	8.19	8.24	31.11	29.41	2.70	4
B1	20210514	Sunny	Moderate	Mid-Flood	Bottom	3.4	09:21	7.61	8.27	31.44	29.41	3.88	4
B1	20210514	Sunny	Moderate	Mid-Flood	Bottom	3.4	09:21	7.99	8.24	30.85	29.33	3.34	4
B2	20210514	Sunny	Moderate	Mid-Flood	Surface	1.0	09:39	8.98	8.35	30.98	29.47	2.90	4
B2	20210514	Sunny	Moderate	Mid-Flood	Surface	1.0	09:39	7.80	8.24	31.39	29.47	3.11	5
B2	20210514	Sunny	Moderate	Mid-Flood	Bottom	4.1	09:38	7.67	8.45	30.87	29.43	3.38	4
B2	20210514	Sunny	Moderate	Mid-Flood	Bottom	4.1	09:38	8.25	8.39	30.89	29.43	3.41	4
В3	20210514	Sunny	Moderate	Mid-Flood	Surface	1.0	10:07	8.99	8.40	30.89	29.39	2.48	4
В3	20210514	Sunny	Moderate	Mid-Flood	Surface	1.0	10:07	8.29	8.37	31.64	29.41	2.43	4
В3	20210514	Sunny	Moderate	Mid-Flood	Bottom	4.0	10:06	8.45	8.38	30.91	29.57	3.49	6
В3	20210514	Sunny	Moderate	Mid-Flood	Bottom	4.0	10:06	8.56	8.22	31.54	29.51	2.95	5
B4	20210514	Sunny	Moderate	Mid-Flood	Surface	1.0	09:57	8.08	8.47	31.03	29.57	2.25	5
B4	20210514	Sunny	Moderate	Mid-Flood	Surface	1.0	09:57	7.92	8.28	31.35	29.49	2.47	6
B4	20210514	Sunny	Moderate	Mid-Flood	Bottom	4.3	09:56	7.74	8.49	31.35	29.43	3.03	5
B4	20210514	Sunny	Moderate	Mid-Flood	Bottom	4.3	09:56	8.69	8.54	31.35	29.37	2.89	4
C1A	20210514	Sunny	Moderate	Mid-Flood	Surface	1.0	08:56	8.73	8.42	30.84	29.27	3.12	3
C1A	20210514	Sunny	Moderate	Mid-Flood	Surface	1.0	08:56	8.03	8.44	31.46	29.30	3.36	2
C1A	20210514	Sunny	Moderate	Mid-Flood	Middle	5.0	08:55	7.82	8.44	31.67	29.32	3.11	4
C1A	20210514	Sunny	Moderate	Mid-Flood	Middle	5.0	08:55	8.98	8.65	31.25	29.22	2.63	3
C1A	20210514	Sunny	Moderate	Mid-Flood	Bottom	9.0	08:54	7.36	8.60	31.33	29.25	3.22	6
C1A	20210514	Sunny	Moderate	Mid-Flood	Bottom	9.0	08:54	7.53	8.46	31.61	29.27	3.45	5
C2A	20210514	Sunny	Moderate	Mid-Flood	Surface	1.0	08:02	8.49	8.50	31.06	29.15	2.28	4
C2A	20210514	Sunny	Moderate	Mid-Flood	Surface	1.0	08:02	7.41	8.44	31.18	29.24	2.66	5
C2A	20210514	Sunny	Moderate	Mid-Flood	Middle	5.6	08:01	8.71	8.61	30.97	29.34	3.34	6
C2A	20210514	Sunny	Moderate	Mid-Flood	Middle	5.6	08:01	7.83	8.46	31.52	29.33	3.14	5
C2A	20210514	Sunny	Moderate	Mid-Flood	Bottom	10.2	08:00	8.82	8.46	31.28	29.20	3.28	5
C2A	20210514	Sunny	Moderate	Mid-Flood	Bottom	10.2	08:00	8.18	8.26	31.50	29.27	3.23	6

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)
CR1	20210514	Sunny	Moderate	Mid-Flood	Surface	1.0	08:25	8.78	8.56	31.59	29.33	2.75	4
CR1	20210514	Sunny	Moderate	Mid-Flood	Surface	1.0	08:25	8.32	8.35	31.13	29.22	2.62	3
CR1	20210514	Sunny	Moderate	Mid-Flood	Middle	6.3	08:24	7.68	8.38	31.07	29.21	3.05	6
CR1	20210514	Sunny	Moderate	Mid-Flood	Middle	6.3	08:24	7.85	8.64	30.99	29.35	3.46	5
CR1	20210514	Sunny	Moderate	Mid-Flood	Bottom	11.6	08:23	7.85	8.21	31.28	29.34	3.35	6
CR1	20210514	Sunny	Moderate	Mid-Flood	Bottom	11.6	08:23	8.32	8.35	31.24	29.38	2.86	5
CR2	20210514	Sunny	Moderate	Mid-Flood	Surface	1.0	08:38	8.75	8.50	31.20	29.39	2.82	5
CR2	20210514	Sunny	Moderate	Mid-Flood	Surface	1.0	08:38	7.74	8.32	30.84	29.33	3.21	6
CR2	20210514	Sunny	Moderate	Mid-Flood	Middle	5.8	08:37	7.34	8.54	31.11	29.21	3.13	6
CR2	20210514	Sunny	Moderate	Mid-Flood	Middle	5.8	08:37	7.42	8.41	31.06	29.34	3.22	5
CR2	20210514	Sunny	Moderate	Mid-Flood	Bottom	10.5	08:36	8.75	8.49	30.89	29.36	2.85	4
CR2	20210514	Sunny	Moderate	Mid-Flood	Bottom	10.5	08:36	7.91	8.52	31.59	29.18	3.02	5
F1A	20210514	Sunny	Moderate	Mid-Flood	Surface	1.0	09:24	8.86	8.40	30.98	29.43	2.66	3
F1A	20210514	Sunny	Moderate	Mid-Flood	Surface	1.0	09:24	8.67	8.64	31.41	29.39	2.34	4
F1A	20210514	Sunny	Moderate	Mid-Flood	Middle	4.0	09:23	9.05	8.34	31.34	29.35	3.07	4
F1A	20210514	Sunny	Moderate	Mid-Flood	Middle	4.0	09:23	7.64	8.33	31.08	29.34	3.56	5
F1A	20210514	Sunny	Moderate	Mid-Flood	Bottom	7.0	09:22	8.67	8.29	31.42	29.36	3.15	4
F1A	20210514	Sunny	Moderate	Mid-Flood	Bottom	7.0	09:22	7.71	8.38	30.96	29.38	3.12	5
H1	20210514	Sunny	Moderate	Mid-Flood	Surface	1.0	10:11	7.59	8.55	31.58	29.58	2.87	5
H1	20210514	Sunny	Moderate	Mid-Flood	Surface	1.0	10:11	8.21	8.39	31.13	29.50	3.10	6
H1	20210514	Sunny	Moderate	Mid-Flood	Middle	4.0	10:10	7.65	8.27	31.66	29.45	2.99	6
H1	20210514	Sunny	Moderate	Mid-Flood	Middle	4.0	10:10	8.91	8.26	31.61	29.45	3.20	5
H1	20210514	Sunny	Moderate	Mid-Flood	Bottom	7.0	10:09	7.76	8.34	31.30	29.50	3.85	5
H1	20210514	Sunny	Moderate	Mid-Flood	Bottom	7.0	10:09	8.79	8.51	31.51	29.42	3.80	4
M1	20210514	Sunny	Moderate	Mid-Flood	Surface	1.0	08:58	7.64	8.21	30.98	29.37	2.68	3
M1	20210514	Sunny	Moderate	Mid-Flood	Surface	1.0	08:58	7.88	8.21	31.47	29.39	3.05	4
M1	20210514	Sunny	Moderate	Mid-Flood	Middle	3.7	08:57	8.73	8.33	31.34	29.26	2.70	4
M1	20210514	Sunny	Moderate	Mid-Flood	Middle	3.7	08:57	8.51	8.59	31.64	29.37	2.50	5
M1	20210514	Sunny	Moderate	Mid-Flood	Bottom	6.4	08:56	8.64	8.38	31.47	29.25	2.81	5
M1	20210514	Sunny	Moderate	Mid-Flood	Bottom	6.4	08:56	8.13	8.26	31.57	29.28	3.34	4
B1	20210514	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:26	8.48	8.44	31.12	29.77	2.90	5
B1	20210514	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:26	8.04	8.46	31.59	29.64	2.45	6

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)
B1	20210514	Sunny	Moderate	Mid-Ebb	Bottom	3.6	12:25	8.62	8.39	30.96	29.70	2.97	6
B1	20210514	Sunny	Moderate	Mid-Ebb	Bottom	3.6	12:25	8.27	8.42	31.04	29.64	2.81	5
B2	20210514	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:42	8.09	8.35	31.06	29.69	2.92	8
B2	20210514	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:42	7.80	8.19	31.14	29.75	3.15	7
B2	20210514	Sunny	Moderate	Mid-Ebb	Bottom	4.7	12:41	7.86	8.26	30.98	29.67	3.55	5
B2	20210514	Sunny	Moderate	Mid-Ebb	Bottom	4.7	12:41	8.41	8.33	31.53	29.76	3.59	6
В3	20210514	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:21	7.89	8.30	31.36	29.74	2.86	7
В3	20210514	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:21	7.94	8.28	31.25	29.66	3.02	6
В3	20210514	Sunny	Moderate	Mid-Ebb	Bottom	3.7	12:20	8.33	8.22	31.11	29.77	3.66	5
В3	20210514	Sunny	Moderate	Mid-Ebb	Bottom	3.7	12:20	7.72	8.43	31.50	29.70	3.47	4
B4	20210514	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:30	8.52	8.26	31.59	29.76	2.80	6
B4	20210514	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:30	8.47	8.30	31.60	29.78	3.30	5
B4	20210514	Sunny	Moderate	Mid-Ebb	Bottom	3.8	12:29	8.02	8.21	31.39	29.82	3.84	4
B4	20210514	Sunny	Moderate	Mid-Ebb	Bottom	3.8	12:29	7.58	8.44	30.87	29.68	3.61	3
C1A	20210514	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:00	8.64	8.27	30.94	29.54	2.98	5
C1A	20210514	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:00	7.68	8.45	31.05	29.52	2.77	5
C1A	20210514	Sunny	Moderate	Mid-Ebb	Middle	5.0	11:59	7.76	8.23	31.16	29.61	3.58	6
C1A	20210514	Sunny	Moderate	Mid-Ebb	Middle	5.0	11:59	7.47	8.36	31.07	29.46	3.26	5
C1A	20210514	Sunny	Moderate	Mid-Ebb	Bottom	9.0	11:58	8.57	8.26	31.07	29.44	3.51	6
C1A	20210514	Sunny	Moderate	Mid-Ebb	Bottom	9.0	11:58	8.88	8.30	31.66	29.49	3.68	5
C2A	20210514	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:03	8.47	8.43	31.76	29.51	2.78	4
C2A	20210514	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:03	9.03	8.38	31.21	29.59	3.26	5
C2A	20210514	Sunny	Moderate	Mid-Ebb	Middle	6.2	12:02	8.66	8.44	31.24	29.51	3.38	4
C2A	20210514	Sunny	Moderate	Mid-Ebb	Middle	6.2	12:02	8.86	8.46	30.96	29.57	2.98	3
C2A	20210514	Sunny	Moderate	Mid-Ebb	Bottom	11.4	12:01	7.77	8.19	31.78	29.63	3.68	3
C2A	20210514	Sunny	Moderate	Mid-Ebb	Bottom	11.4	12:01	8.88	8.20	31.45	29.49	3.29	4
CR1	20210514	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:40	7.46	8.28	30.91	30.06	2.82	4
CR1	20210514	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:40	8.11	8.20	31.45	29.98	3.18	3
CR1	20210514	Sunny	Moderate	Mid-Ebb	Middle	6.5	13:39	7.70	8.36	31.57	29.92	3.58	5
CR1	20210514	Sunny	Moderate	Mid-Ebb	Middle	6.5	13:39	8.16	8.29	31.79	29.88	3.50	4
CR1	20210514	Sunny	Moderate	Mid-Ebb	Bottom	11.9	13:38	7.87	8.43	30.89	30.00	3.64	6
CR1	20210514	Sunny	Moderate	Mid-Ebb	Bottom	11.9	13:38	8.53	8.42	31.70	29.97	3.55	6

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)
CR2	20210514	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:27	8.04	8.39	31.75	29.92	2.66	5
CR2	20210514	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:27	8.11	8.20	31.26	29.83	3.06	6
CR2	20210514	Sunny	Moderate	Mid-Ebb	Middle	5.8	13:26	8.77	8.24	30.91	29.91	3.38	5
CR2	20210514	Sunny	Moderate	Mid-Ebb	Middle	5.8	13:26	8.14	8.30	31.64	30.04	2.90	6
CR2	20210514	Sunny	Moderate	Mid-Ebb	Bottom	10.5	13:25	8.52	8.22	31.08	29.94	3.27	5
CR2	20210514	Sunny	Moderate	Mid-Ebb	Bottom	10.5	13:25	8.23	8.32	31.54	29.92	2.90	4
F1A	20210514	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:57	8.95	8.36	31.20	29.97	2.54	5
F1A	20210514	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:57	9.09	8.27	31.63	29.93	2.54	6
F1A	20210514	Sunny	Moderate	Mid-Ebb	Middle	4.0	12:56	7.56	8.46	31.08	29.96	2.96	4
F1A	20210514	Sunny	Moderate	Mid-Ebb	Middle	4.0	12:56	8.40	8.24	30.85	29.89	3.11	5
F1A	20210514	Sunny	Moderate	Mid-Ebb	Bottom	6.9	12:55	8.75	8.25	31.66	29.99	3.22	4
F1A	20210514	Sunny	Moderate	Mid-Ebb	Bottom	6.9	12:55	7.86	8.19	31.61	29.81	3.55	5
H1	20210514	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:12	8.34	8.22	31.13	29.91	3.31	6
H1	20210514	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:12	7.82	8.35	31.32	29.97	2.99	7
H1	20210514	Sunny	Moderate	Mid-Ebb	Middle	4.1	13:11	8.28	8.33	30.93	29.83	3.31	7
H1	20210514	Sunny	Moderate	Mid-Ebb	Middle	4.1	13:11	8.70	8.24	30.83	29.93	3.48	6
H1	20210514	Sunny	Moderate	Mid-Ebb	Bottom	7.2	13:10	8.66	8.21	31.37	29.97	3.81	7
H1	20210514	Sunny	Moderate	Mid-Ebb	Bottom	7.2	13:10	8.54	8.39	31.04	29.85	3.25	6
M1	20210514	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:24	8.22	8.35	31.69	29.85	3.01	6
M1	20210514	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:24	7.96	8.38	31.04	29.77	2.54	6
M1	20210514	Sunny	Moderate	Mid-Ebb	Middle	4.8	13:23	7.68	8.19	31.60	29.96	3.07	5
M1	20210514	Sunny	Moderate	Mid-Ebb	Middle	4.8	13:23	8.65	8.24	30.97	29.82	3.26	4
M1	20210514	Sunny	Moderate	Mid-Ebb	Bottom	8.5	13:22	8.27	8.29	30.92	29.95	3.53	5
M1	20210514	Sunny	Moderate	Mid-Ebb	Bottom	8.5	13:22	8.31	8.21	30.91	29.94	3.13	4
B1	20210517	Sunny	Moderate	Mid-Flood	Surface	1.0	09:29	7.28	8.69	30.65	29.25	2.66	6
B1	20210517	Sunny	Moderate	Mid-Flood	Surface	1.0	09:29	7.75	8.27	30.65	29.24	2.64	5
B1	20210517	Sunny	Moderate	Mid-Flood	Bottom	3.6	09:28	8.84	8.36	30.02	29.15	3.09	4
B1	20210517	Sunny	Moderate	Mid-Flood	Bottom	3.6	09:28	8.43	8.44	30.32	29.13	2.62	5
B2	20210517	Sunny	Moderate	Mid-Flood	Surface	1.0	09:45	8.24	8.27	30.39	29.27	1.90	5
B2	20210517	Sunny	Moderate	Mid-Flood	Surface	1.0	09:45	8.13	8.27	30.77	29.19	2.15	5
B2	20210517	Sunny	Moderate	Mid-Flood	Bottom	3.9	09:44	7.69	8.46	30.35	29.33	2.98	4
B2	20210517	Sunny	Moderate	Mid-Flood	Bottom	3.9	09:44	8.48	8.50	30.11	29.47	2.87	5

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)
В3	20210517	Sunny	Moderate	Mid-Flood	Surface	1.0	09:59	7.40	8.61	30.46	29.31	2.28	6
В3	20210517	Sunny	Moderate	Mid-Flood	Surface	1.0	09:59	7.40	8.33	30.40	29.46	2.11	5
В3	20210517	Sunny	Moderate	Mid-Flood	Bottom	3.9	09:58	7.17	8.69	30.53	29.31	2.48	5
В3	20210517	Sunny	Moderate	Mid-Flood	Bottom	3.9	09:58	8.43	8.37	30.61	29.40	2.95	4
B4	20210517	Sunny	Moderate	Mid-Flood	Surface	1.0	09:48	8.51	8.45	30.18	29.20	1.94	6
B4	20210517	Sunny	Moderate	Mid-Flood	Surface	1.0	09:48	7.87	8.62	30.43	29.35	1.93	6
B4	20210517	Sunny	Moderate	Mid-Flood	Bottom	4.4	09:47	7.96	8.57	30.04	29.37	2.41	4
B4	20210517	Sunny	Moderate	Mid-Flood	Bottom	4.4	09:47	8.11	8.31	30.36	29.23	2.44	3
C1A	20210517	Sunny	Moderate	Mid-Flood	Surface	1.0	09:00	7.43	8.29	30.34	29.13	3.56	7
C1A	20210517	Sunny	Moderate	Mid-Flood	Surface	1.0	09:00	7.41	8.39	30.65	29.06	3.14	6
C1A	20210517	Sunny	Moderate	Mid-Flood	Middle	5.6	08:59	7.09	8.44	30.36	29.17	3.47	6
C1A	20210517	Sunny	Moderate	Mid-Flood	Middle	5.6	08:59	8.80	8.30	30.19	29.09	3.20	11
C1A	20210517	Sunny	Moderate	Mid-Flood	Bottom	10.2	08:58	8.22	8.64	30.75	29.23	3.19	5
C1A	20210517	Sunny	Moderate	Mid-Flood	Bottom	10.2	08:58	8.69	8.70	30.40	29.16	3.26	6
C2A	20210517	Sunny	Moderate	Mid-Flood	Surface	1.0	08:02	7.91	8.60	30.19	29.03	2.86	6
C2A	20210517	Sunny	Moderate	Mid-Flood	Surface	1.0	08:02	7.32	8.61	29.99	29.13	3.21	7
C2A	20210517	Sunny	Moderate	Mid-Flood	Middle	5.8	08:01	8.16	8.44	30.02	28.95	2.52	6
C2A	20210517	Sunny	Moderate	Mid-Flood	Middle	5.8	08:01	8.26	8.29	30.38	29.14	2.96	6
C2A	20210517	Sunny	Moderate	Mid-Flood	Bottom	10.6	08:00	8.18	8.53	30.72	29.00	3.41	6
C2A	20210517	Sunny	Moderate	Mid-Flood	Bottom	10.6	08:00	7.29	8.44	30.63	29.14	3.11	5
CR1	20210517	Sunny	Moderate	Mid-Flood	Surface	1.0	08:25	8.45	8.56	30.33	29.11	2.59	3
CR1	20210517	Sunny	Moderate	Mid-Flood	Surface	1.0	08:25	8.36	8.38	29.97	29.14	2.27	4
CR1	20210517	Sunny	Moderate	Mid-Flood	Middle	6.2	08:24	8.59	8.37	30.62	29.11	2.17	5
CR1	20210517	Sunny	Moderate	Mid-Flood	Middle	6.2	08:24	8.39	8.53	30.15	29.10	2.36	4
CR1	20210517	Sunny	Moderate	Mid-Flood	Bottom	11.3	08:23	8.07	8.54	30.65	29.17	3.14	5
CR1	20210517	Sunny	Moderate	Mid-Flood	Bottom	11.3	08:23	8.39	8.61	30.05	29.12	2.76	4
CR2	20210517	Sunny	Moderate	Mid-Flood	Surface	1.0	08:40	7.15	8.38	30.61	29.01	2.38	4
CR2	20210517	Sunny	Moderate	Mid-Flood	Surface	1.0	08:40	8.16	8.55	30.40	29.13	2.15	5
CR2	20210517	Sunny	Moderate	Mid-Flood	Middle	5.4	08:39	7.98	8.50	30.34	29.14	2.97	5
CR2	20210517	Sunny	Moderate	Mid-Flood	Middle	5.4	08:39	8.20	8.50	30.45	29.03	3.13	4
CR2	20210517	Sunny	Moderate	Mid-Flood	Bottom	9.8	08:38	8.26	8.33	30.77	29.13	2.80	6
CR2	20210517	Sunny	Moderate	Mid-Flood	Bottom	9.8	08:38	8.09	8.41	30.70	29.00	2.47	5

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)
F1A	20210517	Sunny	Moderate	Mid-Flood	Surface	1.0	09:19	8.51	8.45	30.26	29.17	2.58	7
F1A	20210517	Sunny	Moderate	Mid-Flood	Surface	1.0	09:19	8.34	8.68	30.67	29.22	2.35	8
F1A	20210517	Sunny	Moderate	Mid-Flood	Middle	3.9	09:18	7.56	8.50	30.54	29.33	2.52	6
F1A	20210517	Sunny	Moderate	Mid-Flood	Middle	3.9	09:18	8.48	8.61	30.31	29.13	2.19	7
F1A	20210517	Sunny	Moderate	Mid-Flood	Bottom	6.7	09:17	8.58	8.64	30.37	29.11	2.97	6
F1A	20210517	Sunny	Moderate	Mid-Flood	Bottom	6.7	09:17	8.51	8.69	30.78	29.22	3.16	7
H1	20210517	Sunny	Moderate	Mid-Flood	Surface	1.0	10:12	7.18	8.29	30.08	29.51	2.38	7
H1	20210517	Sunny	Moderate	Mid-Flood	Surface	1.0	10:12	8.64	8.33	30.49	29.41	2.19	6
H1	20210517	Sunny	Moderate	Mid-Flood	Middle	4.0	10:11	7.37	8.49	30.53	29.43	2.97	7
H1	20210517	Sunny	Moderate	Mid-Flood	Middle	4.0	10:11	7.08	8.39	30.78	29.50	2.65	6
H1	20210517	Sunny	Moderate	Mid-Flood	Bottom	7.0	10:10	7.77	8.59	30.65	29.50	2.76	6
H1	20210517	Sunny	Moderate	Mid-Flood	Bottom	7.0	10:10	7.75	8.36	30.49	29.33	2.43	7
M1	20210517	Sunny	Moderate	Mid-Flood	Surface	1.0	08:53	7.93	8.43	30.11	29.05	2.38	6
M1	20210517	Sunny	Moderate	Mid-Flood	Surface	1.0	08:53	8.63	8.47	30.75	29.08	2.58	6
M1	20210517	Sunny	Moderate	Mid-Flood	Middle	4.1	08:52	7.51	8.47	30.71	29.05	2.49	5
M1	20210517	Sunny	Moderate	Mid-Flood	Middle	4.1	08:52	7.25	8.39	30.48	29.11	2.30	4
M1	20210517	Sunny	Moderate	Mid-Flood	Bottom	7.1	08:51	8.83	8.26	30.18	29.09	3.26	5
M1	20210517	Sunny	Moderate	Mid-Flood	Bottom	7.1	08:51	7.15	8.67	30.76	29.09	2.85	4
B1	20210517	Sunny	Moderate	Mid-Ebb	Surface	1.0	14:13	9.41	8.47	30.83	30.00	2.40	4
B1	20210517	Sunny	Moderate	Mid-Ebb	Surface	1.0	14:13	9.37	8.57	31.16	30.05	2.47	6
B1	20210517	Sunny	Moderate	Mid-Ebb	Bottom	3.7	14:12	8.96	8.46	31.08	30.04	3.10	4
B1	20210517	Sunny	Moderate	Mid-Ebb	Bottom	3.7	14:12	9.46	8.51	30.81	30.09	3.39	5
B2	20210517	Sunny	Moderate	Mid-Ebb	Surface	1.0	14:29	9.49	8.48	31.42	29.98	1.80	5
B2	20210517	Sunny	Moderate	Mid-Ebb	Surface	1.0	14:29	9.41	8.46	31.41	29.89	1.91	4
B2	20210517	Sunny	Moderate	Mid-Ebb	Bottom	4.8	14:28	8.78	8.59	30.96	30.05	2.68	5
B2	20210517	Sunny	Moderate	Mid-Ebb	Bottom	4.8	14:28	8.31	8.50	31.27	29.96	2.52	4
В3	20210517	Sunny	Moderate	Mid-Ebb	Surface	1.0	14:05	9.48	8.54	31.26	29.95	2.64	7
В3	20210517	Sunny	Moderate	Mid-Ebb	Surface	1.0	14:05	8.96	8.44	31.07	30.00	2.90	7
В3	20210517	Sunny	Moderate	Mid-Ebb	Bottom	4.0	14:04	9.31	8.60	30.93	30.08	3.36	5
В3	20210517	Sunny	Moderate	Mid-Ebb	Bottom	4.0	14:04	9.04	8.56	31.17	30.00	3.20	5
B4	20210517	Sunny	Moderate	Mid-Ebb	Surface	1.0	14:13	9.10	8.47	30.83	30.07	2.90	6
B4	20210517	Sunny	Moderate	Mid-Ebb	Surface	1.0	14:13	9.34	8.44	31.38	30.00	2.44	5

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)
B4	20210517	Sunny	Moderate	Mid-Ebb	Bottom	3.2	14:12	8.33	8.54	30.60	30.08	2.82	5
B4	20210517	Sunny	Moderate	Mid-Ebb	Bottom	3.2	14:12	9.50	8.53	31.54	30.06	2.99	6
C1A	20210517	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:47	8.41	8.56	30.93	29.81	2.86	7
C1A	20210517	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:47	8.86	8.49	30.60	29.98	2.56	6
C1A	20210517	Sunny	Moderate	Mid-Ebb	Middle	5.4	13:46	8.47	8.59	30.84	29.85	2.06	5
C1A	20210517	Sunny	Moderate	Mid-Ebb	Middle	5.4	13:46	8.44	8.59	30.63	29.93	2.10	4
C1A	20210517	Sunny	Moderate	Mid-Ebb	Bottom	9.7	13:45	8.32	8.50	30.73	29.81	3.41	4
C1A	20210517	Sunny	Moderate	Mid-Ebb	Bottom	9.7	13:45	8.83	8.53	31.26	29.89	3.31	5
C2A	20210517	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:48	9.35	8.46	31.44	29.91	1.91	5
C2A	20210517	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:48	8.88	8.44	30.64	29.83	2.29	5
C2A	20210517	Sunny	Moderate	Mid-Ebb	Middle	5.9	13:47	8.87	8.44	31.56	29.97	2.35	6
C2A	20210517	Sunny	Moderate	Mid-Ebb	Middle	5.9	13:47	8.86	8.51	31.31	29.81	2.44	6
C2A	20210517	Sunny	Moderate	Mid-Ebb	Bottom	10.8	13:46	8.33	8.54	30.83	29.82	2.59	7
C2A	20210517	Sunny	Moderate	Mid-Ebb	Bottom	10.8	13:46	8.69	8.53	31.19	29.98	2.40	6
CR1	20210517	Sunny	Moderate	Mid-Ebb	Surface	1.0	15:24	9.25	8.52	30.92	29.92	2.96	5
CR1	20210517	Sunny	Moderate	Mid-Ebb	Surface	1.0	15:24	9.25	8.57	30.88	29.88	2.91	4
CR1	20210517	Sunny	Moderate	Mid-Ebb	Middle	6.2	15:23	8.99	8.51	31.09	30.01	2.74	5
CR1	20210517	Sunny	Moderate	Mid-Ebb	Middle	6.2	15:23	8.69	8.48	31.08	29.98	2.62	4
CR1	20210517	Sunny	Moderate	Mid-Ebb	Bottom	11.3	15:22	8.80	8.45	31.56	29.92	3.47	4
CR1	20210517	Sunny	Moderate	Mid-Ebb	Bottom	11.3	15:22	8.58	8.51	31.29	30.07	3.24	5
CR2	20210517	Sunny	Moderate	Mid-Ebb	Surface	1.0	15:12	8.92	8.52	30.73	30.08	2.45	4
CR2	20210517	Sunny	Moderate	Mid-Ebb	Surface	1.0	15:12	9.23	8.56	30.91	30.05	2.91	5
CR2	20210517	Sunny	Moderate	Mid-Ebb	Middle	6.0	15:11	8.61	8.61	30.76	29.88	2.90	5
CR2	20210517	Sunny	Moderate	Mid-Ebb	Middle	6.0	15:11	9.31	8.49	30.78	29.88	2.72	5
CR2	20210517	Sunny	Moderate	Mid-Ebb	Bottom	11.0	15:10	8.37	8.61	31.43	29.94	2.56	5
CR2	20210517	Sunny	Moderate	Mid-Ebb	Bottom	11.0	15:10	9.27	8.56	30.64	29.96	2.69	6
F1A	20210517	Sunny	Moderate	Mid-Ebb	Surface	1.0	14:41	9.13	8.46	30.59	30.05	2.97	6
F1A	20210517	Sunny	Moderate	Mid-Ebb	Surface	1.0	14:41	9.30	8.51	30.59	30.08	2.49	7
F1A	20210517	Sunny	Moderate	Mid-Ebb	Middle	4.6	14:40	8.89	8.57	31.52	29.96	2.70	5
F1A	20210517	Sunny	Moderate	Mid-Ebb	Middle	4.6	14:40	8.95	8.61	30.86	30.02	2.58	6
F1A	20210517	Sunny	Moderate	Mid-Ebb	Bottom	8.1	14:39	9.51	8.52	31.31	30.00	2.84	6
F1A	20210517	Sunny	Moderate	Mid-Ebb	Bottom	8.1	14:39	9.41	8.60	30.67	29.90	2.56	5

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	20210517	Sunny	Moderate	Mid-Ebb	Surface	1.0	14:57	9.02	8.52	30.68	30.06	2.53	5
H1	20210517	Sunny	Moderate	Mid-Ebb	Surface	1.0	14:57	8.50	8.58	30.84	29.99	2.93	5
H1	20210517	Sunny	Moderate	Mid-Ebb	Middle	4.3	14:56	9.05	8.58	31.29	29.94	2.51	5
H1	20210517	Sunny	Moderate	Mid-Ebb	Middle	4.3	14:56	8.88	8.48	31.23	29.93	2.92	5
H1	20210517	Sunny	Moderate	Mid-Ebb	Bottom	7.6	14:55	8.36	8.45	30.87	29.91	2.45	6
H1	20210517	Sunny	Moderate	Mid-Ebb	Bottom	7.6	14:55	8.88	8.56	31.28	30.00	2.41	5
M1	20210517	Sunny	Moderate	Mid-Ebb	Surface	1.0	15:08	8.40	8.50	31.31	29.89	2.48	5
M1	20210517	Sunny	Moderate	Mid-Ebb	Surface	1.0	15:08	8.95	8.49	31.27	29.90	2.78	5
M1	20210517	Sunny	Moderate	Mid-Ebb	Middle	4.4	15:07	8.62	8.51	30.87	29.93	2.48	6
M1	20210517	Sunny	Moderate	Mid-Ebb	Middle	4.4	15:07	9.36	8.59	30.77	30.06	2.21	5
M1	20210517	Sunny	Moderate	Mid-Ebb	Bottom	7.8	15:06	8.81	8.47	31.33	30.08	3.22	5
M1	20210517	Sunny	Moderate	Mid-Ebb	Bottom	7.8	15:06	8.90	8.55	30.82	30.01	2.72	6
B1	20210519	Sunny	Moderate	Mid-Flood	Surface	1.0	09:31	9.53	8.73	29.22	29.56	2.29	4
B1	20210519	Sunny	Moderate	Mid-Flood	Surface	1.0	09:31	9.24	8.63	29.51	29.58	2.61	4
B1	20210519	Sunny	Moderate	Mid-Flood	Bottom	4.0	09:30	9.25	8.75	29.21	29.57	3.15	4
B1	20210519	Sunny	Moderate	Mid-Flood	Bottom	4.0	09:30	9.70	8.52	29.50	29.75	3.34	5
B2	20210519	Sunny	Moderate	Mid-Flood	Surface	1.0	09:48	9.12	8.54	28.93	29.78	3.25	4
B2	20210519	Sunny	Moderate	Mid-Flood	Surface	1.0	09:48	9.75	8.60	29.15	29.83	3.29	4
B2	20210519	Sunny	Moderate	Mid-Flood	Bottom	3.7	09:47	9.88	8.67	29.18	29.55	2.96	5
B2	20210519	Sunny	Moderate	Mid-Flood	Bottom	3.7	09:47	9.70	8.70	29.37	29.85	3.53	5
В3	20210519	Sunny	Moderate	Mid-Flood	Surface	1.0	10:12	9.11	8.53	28.95	29.77	2.97	5
В3	20210519	Sunny	Moderate	Mid-Flood	Surface	1.0	10:12	9.22	8.70	29.54	29.63	2.58	4
В3	20210519	Sunny	Moderate	Mid-Flood	Bottom	4.0	10:11	9.17	8.51	29.42	29.65	3.00	6
В3	20210519	Sunny	Moderate	Mid-Flood	Bottom	4.0	10:11	9.65	8.47	29.12	29.63	3.49	5
В4	20210519	Sunny	Moderate	Mid-Flood	Surface	1.0	10:01	9.03	8.59	29.18	29.69	2.58	7
B4	20210519	Sunny	Moderate	Mid-Flood	Surface	1.0	10:01	9.88	8.48	29.12	29.83	2.53	6
B4	20210519	Sunny	Moderate	Mid-Flood	Bottom	4.4	10:00	9.10	8.53	28.88	29.67	2.87	4
В4	20210519	Sunny	Moderate	Mid-Flood	Bottom	4.4	10:00	9.68	8.69	29.06	29.79	3.14	4
C1A	20210519	Sunny	Moderate	Mid-Flood	Surface	1.0	09:02	9.40	8.46	29.22	29.64	3.38	7
C1A	20210519	Sunny	Moderate	Mid-Flood	Surface	1.0	09:02	9.36	8.49	29.36	29.62	2.92	6
C1A	20210519	Sunny	Moderate	Mid-Flood	Middle	5.3	09:01	9.30	8.48	29.08	29.47	2.93	8
C1A	20210519	Sunny	Moderate	Mid-Flood	Middle	5.3	09:01	9.36	8.73	28.98	29.55	3.30	8

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)
C1A	20210519	Sunny	Moderate	Mid-Flood	Bottom	9.5	09:00	9.72	8.46	29.18	29.52	3.08	9
C1A	20210519	Sunny	Moderate	Mid-Flood	Bottom	9.5	09:00	9.18	8.47	29.20	29.42	3.36	9
C2A	20210519	Sunny	Moderate	Mid-Flood	Surface	1.0	08:02	9.48	8.67	29.48	29.49	2.70	4
C2A	20210519	Sunny	Moderate	Mid-Flood	Surface	1.0	08:02	9.63	8.61	29.04	29.43	2.91	4
C2A	20210519	Sunny	Moderate	Mid-Flood	Middle	5.6	08:01	9.07	8.72	29.05	29.53	2.84	5
C2A	20210519	Sunny	Moderate	Mid-Flood	Middle	5.6	08:01	9.17	8.74	29.40	29.48	2.50	5
C2A	20210519	Sunny	Moderate	Mid-Flood	Bottom	10.2	08:00	9.47	8.51	29.55	29.37	3.29	5
C2A	20210519	Sunny	Moderate	Mid-Flood	Bottom	10.2	08:00	9.54	8.70	29.02	29.47	3.37	5
CR1	20210519	Sunny	Moderate	Mid-Flood	Surface	1.0	08:25	9.52	8.44	29.01	29.42	2.37	4
CR1	20210519	Sunny	Moderate	Mid-Flood	Surface	1.0	08:25	8.97	8.49	29.49	29.59	2.39	4
CR1	20210519	Sunny	Moderate	Mid-Flood	Middle	6.3	08:24	9.19	8.66	29.32	29.41	2.35	4
CR1	20210519	Sunny	Moderate	Mid-Flood	Middle	6.3	08:24	9.54	8.69	29.17	29.36	2.46	4
CR1	20210519	Sunny	Moderate	Mid-Flood	Bottom	11.6	08:23	9.13	8.44	29.55	29.58	2.73	5
CR1	20210519	Sunny	Moderate	Mid-Flood	Bottom	11.6	08:23	9.43	8.51	29.38	29.51	2.46	5
CR2	20210519	Sunny	Moderate	Mid-Flood	Surface	1.0	08:41	9.22	8.53	29.51	29.58	2.93	5
CR2	20210519	Sunny	Moderate	Mid-Flood	Surface	1.0	08:41	9.73	8.71	28.98	29.40	3.01	5
CR2	20210519	Sunny	Moderate	Mid-Flood	Middle	5.6	08:40	9.72	8.73	28.97	29.53	3.29	5
CR2	20210519	Sunny	Moderate	Mid-Flood	Middle	5.6	08:40	9.44	8.70	29.14	29.51	3.13	5
CR2	20210519	Sunny	Moderate	Mid-Flood	Bottom	10.1	08:39	8.93	8.59	29.52	29.45	3.31	4
CR2	20210519	Sunny	Moderate	Mid-Flood	Bottom	10.1	08:39	9.38	8.75	28.87	29.38	2.89	3
F1A	20210519	Sunny	Moderate	Mid-Flood	Surface	1.0	09:32	9.30	8.57	29.48	29.61	3.30	3
F1A	20210519	Sunny	Moderate	Mid-Flood	Surface	1.0	09:32	9.53	8.75	29.15	29.54	2.83	3
F1A	20210519	Sunny	Moderate	Mid-Flood	Middle	4.0	09:31	9.38	8.72	29.08	29.56	2.90	4
F1A	20210519	Sunny	Moderate	Mid-Flood	Middle	4.0	09:31	9.52	8.69	29.08	29.70	3.00	4
F1A	20210519	Sunny	Moderate	Mid-Flood	Bottom	6.9	09:30	9.57	8.68	29.49	29.64	2.99	5
F1A	20210519	Sunny	Moderate	Mid-Flood	Bottom	6.9	09:30	9.23	8.60	29.07	29.54	3.10	5
H1	20210519	Sunny	Moderate	Mid-Flood	Surface	1.0	10:17	9.28	8.72	29.46	29.75	3.09	4
H1	20210519	Sunny	Moderate	Mid-Flood	Surface	1.0	10:17	9.10	8.48	28.89	29.94	3.06	5
H1	20210519	Sunny	Moderate	Mid-Flood	Middle	4.3	10:16	9.79	8.57	29.37	29.78	2.69	6
H1	20210519	Sunny	Moderate	Mid-Flood	Middle	4.3	10:16	9.08	8.57	29.51	29.76	3.07	6
H1	20210519	Sunny	Moderate	Mid-Flood	Bottom	7.6	10:15	9.42	8.56	29.01	29.81	2.65	7
H1	20210519	Sunny	Moderate	Mid-Flood	Bottom	7.6	10:15	9.64	8.61	29.43	29.93	3.08	6

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)
M1	20210519	Sunny	Moderate	Mid-Flood	Surface	1.0	09:06	9.06	8.68	29.18	29.65	2.80	5
M1	20210519	Sunny	Moderate	Mid-Flood	Surface	1.0	09:06	9.86	8.57	28.98	29.51	2.96	5
M1	20210519	Sunny	Moderate	Mid-Flood	Middle	4.2	09:05	9.70	8.62	29.18	29.52	2.94	4
M1	20210519	Sunny	Moderate	Mid-Flood	Middle	4.2	09:05	9.27	8.50	29.37	29.63	3.04	4
M1	20210519	Sunny	Moderate	Mid-Flood	Bottom	7.4	09:04	9.28	8.47	29.41	29.51	3.31	4
M1	20210519	Sunny	Moderate	Mid-Flood	Bottom	7.4	09:04	9.83	8.58	28.90	29.48	3.23	4
B1	20210519	Sunny	Moderate	Mid-Ebb	Surface	1.0	15:58	8.69	8.54	28.61	30.04	2.36	7
B1	20210519	Sunny	Moderate	Mid-Ebb	Surface	1.0	15:58	8.89	8.69	28.68	30.11	2.77	7
B1	20210519	Sunny	Moderate	Mid-Ebb	Bottom	4.2	15:57	9.76	8.75	28.57	30.13	2.68	4
B1	20210519	Sunny	Moderate	Mid-Ebb	Bottom	4.2	15:57	9.75	8.75	28.63	29.95	3.01	4
B2	20210519	Sunny	Moderate	Mid-Ebb	Surface	1.0	16:13	9.56	8.74	28.65	30.07	2.93	5
B2	20210519	Sunny	Moderate	Mid-Ebb	Surface	1.0	16:13	9.73	8.61	28.94	30.04	3.04	5
B2	20210519	Sunny	Moderate	Mid-Ebb	Bottom	4.6	16:12	8.80	8.72	28.67	30.07	2.45	7
B2	20210519	Sunny	Moderate	Mid-Ebb	Bottom	4.6	16:12	9.32	8.78	28.76	29.96	2.77	7
В3	20210519	Sunny	Moderate	Mid-Ebb	Surface	1.0	15:49	9.16	8.75	28.91	30.14	2.91	6
В3	20210519	Sunny	Moderate	Mid-Ebb	Surface	1.0	15:49	9.14	8.68	28.58	29.88	3.22	5
В3	20210519	Sunny	Moderate	Mid-Ebb	Bottom	3.8	15:48	9.61	8.73	28.91	30.14	2.80	4
В3	20210519	Sunny	Moderate	Mid-Ebb	Bottom	3.8	15:48	9.20	8.57	28.65	30.12	2.89	5
B4	20210519	Sunny	Moderate	Mid-Ebb	Surface	1.0	15:57	9.66	8.77	28.65	30.12	2.55	5
B4	20210519	Sunny	Moderate	Mid-Ebb	Surface	1.0	15:57	9.36	8.67	28.95	30.04	3.00	5
B4	20210519	Sunny	Moderate	Mid-Ebb	Bottom	3.3	15:56	9.77	8.64	28.62	29.97	2.69	4
B4	20210519	Sunny	Moderate	Mid-Ebb	Bottom	3.3	15:56	9.06	8.66	28.86	30.10	2.82	4
C1A	20210519	Sunny	Moderate	Mid-Ebb	Surface	1.0	15:32	9.78	8.70	28.75	29.87	3.35	6
C1A	20210519	Sunny	Moderate	Mid-Ebb	Surface	1.0	15:32	8.70	8.66	28.88	29.95	2.94	7
C1A	20210519	Sunny	Moderate	Mid-Ebb	Middle	5.4	15:31	9.83	8.69	28.92	29.91	3.25	4
C1A	20210519	Sunny	Moderate	Mid-Ebb	Middle	5.4	15:31	9.18	8.54	28.67	30.02	3.51	4
C1A	20210519	Sunny	Moderate	Mid-Ebb	Bottom	9.7	15:30	9.66	8.75	28.73	29.98	3.84	4
C1A	20210519	Sunny	Moderate	Mid-Ebb	Bottom	9.7	15:30	9.48	8.70	28.69	29.99	3.75	4
C2A	20210519	Sunny	Moderate	Mid-Ebb	Surface	1.0	15:33	9.82	8.79	28.67	30.00	2.65	4
C2A	20210519	Sunny	Moderate	Mid-Ebb	Surface	1.0	15:33	8.98	8.75	28.63	29.93	2.84	4
C2A	20210519	Sunny	Moderate	Mid-Ebb	Middle	6.0	15:32	9.39	8.56	28.84	29.89	3.46	5
C2A	20210519	Sunny	Moderate	Mid-Ebb	Middle	6.0	15:32	8.71	8.69	28.90	30.12	3.15	5

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)
C2A	20210519	Sunny	Moderate	Mid-Ebb	Bottom	10.9	15:31	9.13	8.63	28.63	29.92	3.84	5
C2A	20210519	Sunny	Moderate	Mid-Ebb	Bottom	10.9	15:31	8.67	8.69	28.66	30.08	3.55	5
CR1	20210519	Sunny	Moderate	Mid-Ebb	Surface	1.0	17:08	9.85	8.76	28.73	30.20	2.64	4
CR1	20210519	Sunny	Moderate	Mid-Ebb	Surface	1.0	17:08	9.21	8.73	28.83	30.05	2.88	4
CR1	20210519	Sunny	Moderate	Mid-Ebb	Middle	6.9	17:07	9.14	8.63	28.61	30.23	2.73	4
CR1	20210519	Sunny	Moderate	Mid-Ebb	Middle	6.9	17:07	9.64	8.59	28.77	30.27	2.88	4
CR1	20210519	Sunny	Moderate	Mid-Ebb	Bottom	12.8	17:06	9.23	8.75	28.57	30.11	2.94	5
CR1	20210519	Sunny	Moderate	Mid-Ebb	Bottom	12.8	17:06	9.86	8.54	28.87	30.12	3.13	6
CR2	20210519	Sunny	Moderate	Mid-Ebb	Surface	1.0	16:57	9.58	8.71	28.66	30.15	2.52	4
CR2	20210519	Sunny	Moderate	Mid-Ebb	Surface	1.0	16:57	8.63	8.77	28.65	30.05	2.23	4
CR2	20210519	Sunny	Moderate	Mid-Ebb	Middle	6.1	16:56	8.93	8.68	28.93	30.06	3.14	5
CR2	20210519	Sunny	Moderate	Mid-Ebb	Middle	6.1	16:56	8.82	8.57	28.61	30.16	2.90	5
CR2	20210519	Sunny	Moderate	Mid-Ebb	Bottom	11.2	16:55	8.97	8.76	28.83	30.20	2.99	6
CR2	20210519	Sunny	Moderate	Mid-Ebb	Bottom	11.2	16:55	9.85	8.66	28.95	30.18	2.93	5
F1A	20210519	Sunny	Moderate	Mid-Ebb	Surface	1.0	16:23	9.85	8.67	28.70	30.18	2.74	3
F1A	20210519	Sunny	Moderate	Mid-Ebb	Surface	1.0	16:23	9.68	8.76	28.89	30.02	2.81	4
F1A	20210519	Sunny	Moderate	Mid-Ebb	Middle	4.6	16:22	9.82	8.77	28.84	30.08	2.99	4
F1A	20210519	Sunny	Moderate	Mid-Ebb	Middle	4.6	16:22	8.86	8.68	28.85	30.10	3.37	5
F1A	20210519	Sunny	Moderate	Mid-Ebb	Bottom	8.1	16:21	8.76	8.71	28.88	30.05	3.57	5
F1A	20210519	Sunny	Moderate	Mid-Ebb	Bottom	8.1	16:21	8.62	8.55	28.58	30.19	3.53	5
H1	20210519	Sunny	Moderate	Mid-Ebb	Surface	1.0	16:42	9.57	8.53	28.66	29.96	2.28	4
H1	20210519	Sunny	Moderate	Mid-Ebb	Surface	1.0	16:42	8.79	8.73	28.88	30.20	2.62	4
H1	20210519	Sunny	Moderate	Mid-Ebb	Middle	4.4	16:41	8.92	8.52	28.74	30.05	2.85	4
H1	20210519	Sunny	Moderate	Mid-Ebb	Middle	4.4	16:41	9.16	8.56	28.82	30.16	3.25	4
H1	20210519	Sunny	Moderate	Mid-Ebb	Bottom	7.8	16:40	9.12	8.62	28.81	30.17	3.63	5
H1	20210519	Sunny	Moderate	Mid-Ebb	Bottom	7.8	16:40	9.60	8.67	28.89	30.05	3.33	6
M1	20210519	Sunny	Moderate	Mid-Ebb	Surface	1.0	16:48	9.32	8.70	28.60	30.08	2.16	3
M1	20210519	Sunny	Moderate	Mid-Ebb	Surface	1.0	16:48	9.62	8.53	28.58	30.26	2.19	3
M1	20210519	Sunny	Moderate	Mid-Ebb	Middle	4.7	16:47	9.46	8.64	28.94	30.06	2.76	4
M1	20210519	Sunny	Moderate	Mid-Ebb	Middle	4.7	16:47	9.28	8.56	28.73	30.26	2.46	4
M1	20210519	Sunny	Moderate	Mid-Ebb	Bottom	8.3	16:46	8.88	8.64	28.57	30.10	2.85	5
M1	20210519	Sunny	Moderate	Mid-Ebb	Bottom	8.3	16:46	8.90	8.53	28.89	30.02	2.76	5

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)
B1	20210521	Sunny	Moderate	Mid-Ebb	Surface	1.0	08:53	9.67	8.81	31.15	28.89	2.56	6
B1	20210521	Sunny	Moderate	Mid-Ebb	Surface	1.0	08:53	9.57	8.79	30.92	29.08	2.26	6
B1	20210521	Sunny	Moderate	Mid-Ebb	Bottom	4.1	08:52	9.25	8.63	30.30	28.98	2.57	6
B1	20210521	Sunny	Moderate	Mid-Ebb	Bottom	4.1	08:52	9.87	8.57	31.22	29.18	2.75	6
B2	20210521	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:11	8.37	8.61	31.18	29.24	2.46	5
B2	20210521	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:11	9.00	8.78	30.72	29.30	2.47	5
B2	20210521	Sunny	Moderate	Mid-Ebb	Bottom	4.9	09:10	8.50	8.76	30.94	28.99	2.73	6
B2	20210521	Sunny	Moderate	Mid-Ebb	Bottom	4.9	09:10	9.85	8.67	31.25	29.25	3.03	6
В3	20210521	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:02	8.91	8.47	30.52	29.20	3.16	6
В3	20210521	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:02	8.55	8.66	30.86	29.35	2.75	5
В3	20210521	Sunny	Moderate	Mid-Ebb	Bottom	3.6	10:01	8.58	8.65	30.38	29.31	2.88	5
В3	20210521	Sunny	Moderate	Mid-Ebb	Bottom	3.6	10:01	9.00	8.52	30.51	29.13	3.70	6
B4	20210521	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:52	9.34	8.47	30.58	29.02	3.15	6
B4	20210521	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:52	9.25	8.53	30.98	29.08	3.12	6
B4	20210521	Sunny	Moderate	Mid-Ebb	Bottom	3.9	09:51	8.80	8.68	30.66	29.11	2.88	7
B4	20210521	Sunny	Moderate	Mid-Ebb	Bottom	3.9	09:51	9.27	8.44	30.70	29.13	3.54	7
C1A	20210521	Sunny	Moderate	Mid-Ebb	Surface	1.0	08:26	9.08	8.77	31.10	28.96	3.21	7
C1A	20210521	Sunny	Moderate	Mid-Ebb	Surface	1.0	08:26	9.35	8.52	30.64	28.82	2.84	8
C1A	20210521	Sunny	Moderate	Mid-Ebb	Middle	4.9	08:25	9.40	8.81	30.73	29.01	2.58	8
C1A	20210521	Sunny	Moderate	Mid-Ebb	Middle	4.9	08:25	9.31	8.80	30.95	28.92	3.11	7
C1A	20210521	Sunny	Moderate	Mid-Ebb	Bottom	8.7	08:24	8.87	8.63	30.62	29.04	3.35	6
C1A	20210521	Sunny	Moderate	Mid-Ebb	Bottom	8.7	08:24	8.61	8.76	31.18	28.96	3.61	6
C2A	20210521	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:27	9.02	8.71	31.26	29.41	2.85	5
C2A	20210521	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:27	9.47	8.59	30.89	29.25	3.05	5
C2A	20210521	Sunny	Moderate	Mid-Ebb	Middle	6.2	10:26	9.85	8.65	30.77	29.41	2.58	4
C2A	20210521	Sunny	Moderate	Mid-Ebb	Middle	6.2	10:26	8.95	8.51	30.74	29.22	3.20	5
C2A	20210521	Sunny	Moderate	Mid-Ebb	Bottom	11.4	10:25	9.36	8.67	30.56	29.38	3.71	5
C2A	20210521	Sunny	Moderate	Mid-Ebb	Bottom	11.4	10:25	8.68	8.60	30.34	29.24	3.44	5
CR1	20210521	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:07	9.03	8.49	31.23	29.16	3.21	5
CR1	20210521	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:07	9.78	8.55	30.43	29.39	2.77	5
CR1	20210521	Sunny	Moderate	Mid-Ebb	Middle	6.8	10:06	9.75	8.71	30.59	29.36	3.25	6
CR1	20210521	Sunny	Moderate	Mid-Ebb	Middle	6.8	10:06	8.41	8.79	31.16	29.42	2.47	6

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)
CR1	20210521	Sunny	Moderate	Mid-Ebb	Bottom	12.5	10:05	8.90	8.54	30.58	29.37	3.41	9
CR1	20210521	Sunny	Moderate	Mid-Ebb	Bottom	12.5	10:05	9.38	8.71	30.84	29.26	3.68	8
CR2	20210521	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:54	9.12	8.55	30.61	29.19	3.12	7
CR2	20210521	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:54	9.89	8.59	31.05	29.00	2.87	7
CR2	20210521	Sunny	Moderate	Mid-Ebb	Middle	5.4	09:53	8.43	8.74	30.73	29.17	2.59	6
CR2	20210521	Sunny	Moderate	Mid-Ebb	Middle	5.4	09:53	9.52	8.72	30.59	29.05	2.49	6
CR2	20210521	Sunny	Moderate	Mid-Ebb	Bottom	9.8	09:52	8.86	8.72	30.46	29.25	2.62	5
CR2	20210521	Sunny	Moderate	Mid-Ebb	Bottom	9.8	09:52	8.88	8.53	30.36	29.27	2.69	5
F1A	20210521	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:23	9.38	8.69	31.13	28.89	2.24	7
F1A	20210521	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:23	8.86	8.75	31.25	29.08	2.30	7
F1A	20210521	Sunny	Moderate	Mid-Ebb	Middle	4.0	09:22	8.98	8.48	30.62	29.23	2.32	6
F1A	20210521	Sunny	Moderate	Mid-Ebb	Middle	4.0	09:22	9.06	8.50	30.60	28.91	2.88	5
F1A	20210521	Sunny	Moderate	Mid-Ebb	Bottom	7.0	09:21	9.71	8.44	31.10	29.04	3.67	5
F1A	20210521	Sunny	Moderate	Mid-Ebb	Bottom	7.0	09:21	8.43	8.58	30.48	28.97	3.63	4
H1	20210521	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:39	8.77	8.70	30.80	29.25	2.14	5
H1	20210521	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:39	8.79	8.49	30.37	29.09	2.20	5
H1	20210521	Sunny	Moderate	Mid-Ebb	Middle	4.1	09:38	8.35	8.46	30.32	29.21	2.75	5
H1	20210521	Sunny	Moderate	Mid-Ebb	Middle	4.1	09:38	9.84	8.72	30.51	29.05	2.85	5
H1	20210521	Sunny	Moderate	Mid-Ebb	Bottom	7.1	09:37	8.82	8.57	31.16	29.20	2.67	5
H1	20210521	Sunny	Moderate	Mid-Ebb	Bottom	7.1	09:37	8.39	8.81	30.85	29.31	3.26	4
M1	20210521	Sunny	Moderate	Mid-Ebb	Surface	1.0	08:54	8.99	8.44	31.24	28.92	2.43	6
M1	20210521	Sunny	Moderate	Mid-Ebb	Surface	1.0	08:54	8.95	8.49	31.04	29.08	2.14	6
M1	20210521	Sunny	Moderate	Mid-Ebb	Middle	4.8	08:53	9.53	8.50	30.55	29.02	2.20	6
M1	20210521	Sunny	Moderate	Mid-Ebb	Middle	4.8	08:53	8.71	8.53	30.32	29.00	3.34	6
M1	20210521	Sunny	Moderate	Mid-Ebb	Bottom	8.6	08:52	8.79	8.65	30.86	29.09	2.97	7
M1	20210521	Sunny	Moderate	Mid-Ebb	Bottom	8.6	08:52	8.65	8.53	31.21	29.09	3.22	7
B1	20210521	Sunny	Moderate	Mid-Flood	Surface	1.0	12:24	9.25	8.50	30.88	29.69	2.17	6
B1	20210521	Sunny	Moderate	Mid-Flood	Surface	1.0	12:24	8.96	8.83	30.71	29.61	2.91	6
B1	20210521	Sunny	Moderate	Mid-Flood	Bottom	4.5	12:23	8.60	8.65	30.85	29.63	3.25	9
B1	20210521	Sunny	Moderate	Mid-Flood	Bottom	4.5	12:23	8.15	8.51	31.06	29.49	3.73	10
B2	20210521	Sunny	Moderate	Mid-Flood	Surface	1.0	12:42	8.11	8.79	31.02	29.51	3.18	5
B2	20210521	Sunny	Moderate	Mid-Flood	Surface	1.0	12:42	8.14	8.90	30.66	29.61	3.14	5

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)
B2	20210521	Sunny	Moderate	Mid-Flood	Bottom	3.8	12:41	9.07	8.63	30.89	29.61	3.32	6
B2	20210521	Sunny	Moderate	Mid-Flood	Bottom	3.8	12:41	8.60	8.88	31.01	29.48	3.32	5
В3	20210521	Sunny	Moderate	Mid-Flood	Surface	1.0	12:14	9.26	8.48	31.03	29.72	2.60	5
В3	20210521	Sunny	Moderate	Mid-Flood	Surface	1.0	12:14	9.34	8.57	30.77	29.73	3.11	5
В3	20210521	Sunny	Moderate	Mid-Flood	Bottom	4.0	12:13	8.47	8.64	30.84	29.59	3.39	6
В3	20210521	Sunny	Moderate	Mid-Flood	Bottom	4.0	12:13	8.41	8.88	31.19	29.49	3.64	6
B4	20210521	Sunny	Moderate	Mid-Flood	Surface	1.0	12:24	8.76	8.77	30.91	29.60	2.97	6
B4	20210521	Sunny	Moderate	Mid-Flood	Surface	1.0	12:24	8.93	8.78	30.64	29.56	2.67	6
B4	20210521	Sunny	Moderate	Mid-Flood	Bottom	3.8	12:23	8.89	8.69	30.96	29.63	2.74	4
B4	20210521	Sunny	Moderate	Mid-Flood	Bottom	3.8	12:23	8.91	8.82	30.48	29.59	3.73	5
C1A	20210521	Sunny	Moderate	Mid-Flood	Surface	1.0	11:55	8.66	8.57	30.74	29.51	2.84	6
C1A	20210521	Sunny	Moderate	Mid-Flood	Surface	1.0	11:55	9.19	8.86	31.13	29.56	2.71	5
C1A	20210521	Sunny	Moderate	Mid-Flood	Middle	5.7	11:54	9.03	8.65	30.87	29.67	3.53	6
C1A	20210521	Sunny	Moderate	Mid-Flood	Middle	5.7	11:54	8.07	8.64	30.83	29.64	3.18	6
C1A	20210521	Sunny	Moderate	Mid-Flood	Bottom	10.4	11:53	8.60	8.71	31.06	29.41	3.09	6
C1A	20210521	Sunny	Moderate	Mid-Flood	Bottom	10.4	11:53	9.08	8.83	31.12	29.53	3.62	6
C2A	20210521	Sunny	Moderate	Mid-Flood	Surface	1.0	11:55	8.79	8.64	30.60	29.68	2.54	7
C2A	20210521	Sunny	Moderate	Mid-Flood	Surface	1.0	11:55	8.90	8.78	31.00	29.55	2.54	8
C2A	20210521	Sunny	Moderate	Mid-Flood	Middle	5.5	11:54	8.16	8.59	31.11	29.53	3.29	7
C2A	20210521	Sunny	Moderate	Mid-Flood	Middle	5.5	11:54	8.58	8.65	30.43	29.63	3.14	7
C2A	20210521	Sunny	Moderate	Mid-Flood	Bottom	10.0	11:53	9.41	8.71	30.63	29.60	4.07	6
C2A	20210521	Sunny	Moderate	Mid-Flood	Bottom	10.0	11:53	9.43	8.54	30.65	29.55	3.01	6
CR1	20210521	Sunny	Moderate	Mid-Flood	Surface	1.0	13:39	9.44	8.55	31.10	29.74	2.11	6
CR1	20210521	Sunny	Moderate	Mid-Flood	Surface	1.0	13:39	8.92	8.84	31.08	29.77	2.78	6
CR1	20210521	Sunny	Moderate	Mid-Flood	Middle	6.5	13:38	9.06	8.70	31.20	29.80	3.31	7
CR1	20210521	Sunny	Moderate	Mid-Flood	Middle	6.5	13:38	8.68	8.54	31.16	29.73	2.64	7
CR1	20210521	Sunny	Moderate	Mid-Flood	Bottom	12.0	13:37	9.40	8.75	31.16	29.73	2.86	8
CR1	20210521	Sunny	Moderate	Mid-Flood	Bottom	12.0	13:37	9.19	8.90	30.76	29.76	3.32	8
CR2	20210521	Sunny	Moderate	Mid-Flood	Surface	1.0	13:26	8.88	8.48	30.83	29.86	2.52	5
CR2	20210521	Sunny	Moderate	Mid-Flood	Surface	1.0	13:26	9.28	8.54	31.01	29.86	2.69	5
CR2	20210521	Sunny	Moderate	Mid-Flood	Middle	5.5	13:25	9.21	8.81	30.91	29.66	2.42	5
CR2	20210521	Sunny	Moderate	Mid-Flood	Middle	5.5	13:25	8.86	8.53	30.56	29.78	2.93	5

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)
CR2	20210521	Sunny	Moderate	Mid-Flood	Bottom	9.9	13:24	9.47	8.86	30.63	29.67	3.39	4
CR2	20210521	Sunny	Moderate	Mid-Flood	Bottom	9.9	13:24	9.39	8.72	31.10	29.66	3.62	4
F1A	20210521	Sunny	Moderate	Mid-Flood	Surface	1.0	12:52	8.81	8.62	30.47	29.72	2.90	6
F1A	20210521	Sunny	Moderate	Mid-Flood	Surface	1.0	12:52	8.31	8.71	30.94	29.81	2.51	6
F1A	20210521	Sunny	Moderate	Mid-Flood	Middle	3.9	12:51	9.06	8.72	30.47	29.59	2.68	5
F1A	20210521	Sunny	Moderate	Mid-Flood	Middle	3.9	12:51	7.89	8.71	31.09	29.71	2.37	5
F1A	20210521	Sunny	Moderate	Mid-Flood	Bottom	6.8	12:50	9.59	8.65	30.91	29.64	3.52	5
F1A	20210521	Sunny	Moderate	Mid-Flood	Bottom	6.8	12:50	7.92	8.89	30.77	29.75	3.38	5
H1	20210521	Sunny	Moderate	Mid-Flood	Surface	1.0	13:11	9.04	8.60	30.50	29.81	2.15	6
H1	20210521	Sunny	Moderate	Mid-Flood	Surface	1.0	13:11	9.18	8.65	30.90	29.62	2.95	6
H1	20210521	Sunny	Moderate	Mid-Flood	Middle	3.9	13:10	7.93	8.80	31.20	29.73	3.36	8
H1	20210521	Sunny	Moderate	Mid-Flood	Middle	3.9	13:10	8.21	8.66	31.03	29.66	2.82	8
H1	20210521	Sunny	Moderate	Mid-Flood	Bottom	6.8	13:09	8.64	8.56	31.20	29.74	2.82	10
H1	20210521	Sunny	Moderate	Mid-Flood	Bottom	6.8	13:09	8.86	8.54	30.56	29.69	2.58	10
M1	20210521	Sunny	Moderate	Mid-Flood	Surface	1.0	13:21	8.77	8.64	31.11	29.76	3.17	6
M1	20210521	Sunny	Moderate	Mid-Flood	Surface	1.0	13:21	7.99	8.70	30.92	29.83	2.25	6
M1	20210521	Sunny	Moderate	Mid-Flood	Middle	3.7	13:20	9.07	8.55	30.96	29.63	2.67	6
M1	20210521	Sunny	Moderate	Mid-Flood	Middle	3.7	13:20	8.82	8.50	30.41	29.66	2.39	7
M1	20210521	Sunny	Moderate	Mid-Flood	Bottom	6.4	13:19	9.61	8.70	30.78	29.75	2.56	8
M1	20210521	Sunny	Moderate	Mid-Flood	Bottom	6.4	13:19	9.07	8.88	31.09	29.76	2.88	8
B1	20210524	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:33	8.29	8.44	29.89	29.35	3.00	3
B1	20210524	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:33	9.26	8.25	29.65	29.40	2.62	3
B1	20210524	Sunny	Moderate	Mid-Ebb	Bottom	4.1	09:32	9.23	8.30	30.38	29.42	2.85	2
B1	20210524	Sunny	Moderate	Mid-Ebb	Bottom	4.1	09:32	9.40	8.32	30.18	29.46	2.82	2
B2	20210524	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:49	8.78	8.30	30.19	29.30	2.71	4
B2	20210524	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:49	8.43	8.51	29.72	29.58	2.58	4
B2	20210524	Sunny	Moderate	Mid-Ebb	Bottom	4.9	09:48	8.59	8.47	30.56	29.37	2.83	2
B2	20210524	Sunny	Moderate	Mid-Ebb	Bottom	4.9	09:48	9.04	8.59	29.62	29.43	2.78	3
В3	20210524	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:21	9.65	8.54	30.07	29.81	3.04	3
В3	20210524	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:21	8.54	8.57	30.40	29.70	2.72	3
В3	20210524	Sunny	Moderate	Mid-Ebb	Bottom	4.0	11:20	8.67	8.27	29.81	29.77	2.83	3
В3	20210524	Sunny	Moderate	Mid-Ebb	Bottom	4.0	11:20	9.88	8.43	30.26	29.72	3.32	4

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)
B4	20210524	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:10	8.36	8.32	29.82	29.62	2.46	4
B4	20210524	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:10	8.25	8.35	30.37	29.65	2.13	4
B4	20210524	Sunny	Moderate	Mid-Ebb	Bottom	4.0	11:09	8.48	8.57	29.74	29.80	3.55	2
B4	20210524	Sunny	Moderate	Mid-Ebb	Bottom	4.0	11:09	8.28	8.54	29.92	29.82	3.05	2
C1A	20210524	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:04	9.73	8.35	30.07	29.23	2.56	4
C1A	20210524	Sunny	Moderate	Mid-Ebb	Surface	1.0	09:04	8.97	8.38	30.01	29.30	2.41	4
C1A	20210524	Sunny	Moderate	Mid-Ebb	Middle	5.6	09:03	8.75	8.49	30.31	29.16	3.45	3
C1A	20210524	Sunny	Moderate	Mid-Ebb	Middle	5.6	09:03	8.33	8.53	30.29	29.19	3.57	3
C1A	20210524	Sunny	Moderate	Mid-Ebb	Bottom	10.1	09:02	9.38	8.39	30.01	29.16	3.34	3
C1A	20210524	Sunny	Moderate	Mid-Ebb	Bottom	10.1	09:02	8.98	8.36	30.41	29.38	3.20	2
C2A	20210524	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:02	8.35	8.27	30.00	29.73	3.03	3
C2A	20210524	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:02	8.40	8.46	30.58	29.62	2.81	3
C2A	20210524	Sunny	Moderate	Mid-Ebb	Middle	5.7	11:01	8.34	8.55	30.08	29.60	3.50	2
C2A	20210524	Sunny	Moderate	Mid-Ebb	Middle	5.7	11:01	9.17	8.44	30.54	29.76	3.28	2
C2A	20210524	Sunny	Moderate	Mid-Ebb	Bottom	10.3	11:00	9.11	8.37	30.51	29.57	3.63	2
C2A	20210524	Sunny	Moderate	Mid-Ebb	Bottom	10.3	11:00	9.21	8.49	29.97	29.64	3.24	2
CR1	20210524	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:43	8.45	8.33	29.78	29.60	3.27	2
CR1	20210524	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:43	9.46	8.47	29.64	29.51	3.12	2
CR1	20210524	Sunny	Moderate	Mid-Ebb	Middle	6.3	10:42	9.66	8.41	29.89	29.73	2.71	2
CR1	20210524	Sunny	Moderate	Mid-Ebb	Middle	6.3	10:42	9.49	8.41	30.04	29.56	3.02	3
CR1	20210524	Sunny	Moderate	Mid-Ebb	Bottom	11.5	10:41	8.50	8.57	29.91	29.80	3.37	3
CR1	20210524	Sunny	Moderate	Mid-Ebb	Bottom	11.5	10:41	8.51	8.56	29.60	29.49	3.69	3
CR2	20210524	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:30	8.25	8.26	29.91	29.67	3.41	3
CR2	20210524	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:30	8.38	8.35	30.03	29.67	3.42	3
CR2	20210524	Sunny	Moderate	Mid-Ebb	Middle	5.9	10:29	8.64	8.52	29.75	29.42	2.85	3
CR2	20210524	Sunny	Moderate	Mid-Ebb	Middle	5.9	10:29	8.30	8.54	30.38	29.50	3.10	3
CR2	20210524	Sunny	Moderate	Mid-Ebb	Bottom	10.8	10:28	9.81	8.31	29.69	29.42	3.81	2
CR2	20210524	Sunny	Moderate	Mid-Ebb	Bottom	10.8	10:28	8.58	8.46	29.66	29.56	3.29	2
F1A	20210524	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:42	9.34	8.57	30.12	29.47	2.47	3
F1A	20210524	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:42	9.89	8.29	29.62	29.42	2.43	3
F1A	20210524	Sunny	Moderate	Mid-Ebb	Middle	4.5	10:41	8.84	8.60	30.52	29.60	2.96	2
F1A	20210524	Sunny	Moderate	Mid-Ebb	Middle	4.5	10:41	9.24	8.54	30.34	29.74	2.59	2

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)
F1A	20210524	Sunny	Moderate	Mid-Ebb	Bottom	8.0	10:40	9.74	8.56	30.46	29.62	3.06	2
F1A	20210524	Sunny	Moderate	Mid-Ebb	Bottom	8.0	10:40	9.00	8.46	30.33	29.63	3.11	
H1	20210524	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:16	8.25	8.48	29.72	29.51	2.77	2
H1	20210524	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:16	8.88	8.56	30.36	29.70	2.68	2
H1	20210524	Sunny	Moderate	Mid-Ebb	Middle	3.9	10:15	9.15	8.54	30.18	29.67	2.83	2
H1	20210524	Sunny	Moderate	Mid-Ebb	Middle	3.9	10:15	9.53	8.24	29.89	29.38	2.87	
H1	20210524	Sunny	Moderate	Mid-Ebb	Bottom	6.8	10:14	9.37	8.57	30.00	29.57	3.46	3
H1	20210524	Sunny	Moderate	Mid-Ebb	Bottom	6.8	10:14	8.68	8.60	30.29	29.53	3.09	2
M1	20210524	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:12	8.60	8.44	30.09	29.51	2.69	3
M1	20210524	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:12	8.73	8.27	30.47	29.55	2.40	3
M1	20210524	Sunny	Moderate	Mid-Ebb	Middle	4.4	10:11	9.60	8.48	29.84	29.59	2.46	2
M1	20210524	Sunny	Moderate	Mid-Ebb	Middle	4.4	10:11	8.81	8.43	30.18	29.34	2.47	2
M1	20210524	Sunny	Moderate	Mid-Ebb	Bottom	7.8	10:10	9.38	8.35	29.93	29.68	2.99	2
M1	20210524	Sunny	Moderate	Mid-Ebb	Bottom	7.8	10:10	8.90	8.38	29.98	29.54	3.57	2
B1	20210524	Sunny	Moderate	Mid-Flood	Surface	1.0	15:53	9.39	8.58	29.63	29.71	2.37	4
B1	20210524	Sunny	Moderate	Mid-Flood	Surface	1.0	15:53	9.16	8.35	29.72	29.77	2.17	4
B1	20210524	Sunny	Moderate	Mid-Flood	Bottom	3.9	15:52	9.76	8.45	29.82	29.68	3.01	6
B1	20210524	Sunny	Moderate	Mid-Flood	Bottom	3.9	15:52	9.18	8.58	29.50	29.72	3.48	5
B2	20210524	Sunny	Moderate	Mid-Flood	Surface	1.0	16:10	9.13	8.62	30.16	29.73	2.56	4
B2	20210524	Sunny	Moderate	Mid-Flood	Surface	1.0	16:10	9.48	8.74	30.21	29.71	2.49	3
B2	20210524	Sunny	Moderate	Mid-Flood	Bottom	3.6	16:09	8.87	8.66	29.79	29.63	3.30	6
B2	20210524	Sunny	Moderate	Mid-Flood	Bottom	3.6	16:09	9.59	8.66	29.92	29.64	3.06	6
В3	20210524	Sunny	Moderate	Mid-Flood	Surface	1.0	15:40	8.90	8.56	29.66	29.78	3.19	3
В3	20210524	Sunny	Moderate	Mid-Flood	Surface	1.0	15:40	9.78	8.68	30.13	29.81	3.22	3
В3	20210524	Sunny	Moderate	Mid-Flood	Bottom	3.9	15:39	8.73	8.35	29.85	29.81	3.34	5
В3	20210524	Sunny	Moderate	Mid-Flood	Bottom	3.9	15:39	8.65	8.72	29.96	29.78	3.23	5
B4	20210524	Sunny	Moderate	Mid-Flood	Surface	1.0	15:50	9.54	8.40	29.81	29.73	3.03	3
B4	20210524	Sunny	Moderate	Mid-Flood	Surface	1.0	15:50	8.70	8.57	30.27	29.72	2.62	3
B4	20210524	Sunny	Moderate	Mid-Flood	Bottom	4.5	15:49	8.97	8.34	30.14	29.81	3.43	6
B4	20210524	Sunny	Moderate	Mid-Flood	Bottom	4.5	15:49	8.67	8.60	29.99	29.67	3.74	5
C1A	20210524	Sunny	Moderate	Mid-Flood	Surface	1.0	15:25	9.36	8.32	29.52	29.89	3.42	3
C1A	20210524	Sunny	Moderate	Mid-Flood	Surface	1.0	15:25	8.89	8.54	29.86	29.73	3.09	3

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)
C1A	20210524	Sunny	Moderate	Mid-Flood	Middle	5.3	15:24	8.82	8.54	30.04	29.75	3.37	3
C1A	20210524	Sunny	Moderate	Mid-Flood	Middle	5.3	15:24	8.81	8.42	29.96	29.80	3.04	3
C1A	20210524	Sunny	Moderate	Mid-Flood	Bottom	9.5	15:23	9.21	8.45	30.11	29.77	3.82	3
C1A	20210524	Sunny	Moderate	Mid-Flood	Bottom	9.5	15:23	9.19	8.60	30.29	29.77	3.63	3
C2A	20210524	Sunny	Moderate	Mid-Flood	Surface	1.0	15:25	9.04	8.58	29.87	29.77	2.86	2
C2A	20210524	Sunny	Moderate	Mid-Flood	Surface	1.0	15:25	9.56	8.63	29.53	29.83	3.11	2
C2A	20210524	Sunny	Moderate	Mid-Flood	Middle	5.7	15:24	8.94	8.47	30.27	29.75	3.06	2
C2A	20210524	Sunny	Moderate	Mid-Flood	Middle	5.7	15:24	8.96	8.74	30.06	29.79	3.09	2
C2A	20210524	Sunny	Moderate	Mid-Flood	Bottom	10.4	15:23	8.92	8.39	30.30	29.73	2.90	5
C2A	20210524	Sunny	Moderate	Mid-Flood	Bottom	10.4	15:23	9.26	8.33	29.76	29.86	3.24	5
CR1	20210524	Sunny	Moderate	Mid-Flood	Surface	1.0	17:07	9.52	8.57	30.05	29.70	2.01	3
CR1	20210524	Sunny	Moderate	Mid-Flood	Surface	1.0	17:07	8.78	8.64	30.29	29.73	2.25	3
CR1	20210524	Sunny	Moderate	Mid-Flood	Middle	6.1	17:06	9.34	8.50	30.10	29.65	2.70	3
CR1	20210524	Sunny	Moderate	Mid-Flood	Middle	6.1	17:06	8.87	8.58	30.13	29.58	2.43	4
CR1	20210524	Sunny	Moderate	Mid-Flood	Bottom	11.2	17:05	9.29	8.45	30.27	29.76	3.35	4
CR1	20210524	Sunny	Moderate	Mid-Flood	Bottom	11.2	17:05	8.57	8.63	30.11	29.74	3.02	4
CR2	20210524	Sunny	Moderate	Mid-Flood	Surface	1.0	16:52	8.79	8.65	30.22	29.69	2.61	4
CR2	20210524	Sunny	Moderate	Mid-Flood	Surface	1.0	16:52	8.64	8.61	30.26	29.52	3.12	4
CR2	20210524	Sunny	Moderate	Mid-Flood	Middle	5.9	16:51	8.94	8.52	30.09	29.77	3.01	3
CR2	20210524	Sunny	Moderate	Mid-Flood	Middle	5.9	16:51	9.10	8.40	29.88	29.60	2.73	3
CR2	20210524	Sunny	Moderate	Mid-Flood	Bottom	10.7	16:50	9.10	8.42	29.69	29.76	3.15	3
CR2	20210524	Sunny	Moderate	Mid-Flood	Bottom	10.7	16:50	9.37	8.54	29.82	29.71	2.90	3
F1A	20210524	Sunny	Moderate	Mid-Flood	Surface	1.0	16:18	9.80	8.58	29.85	29.79	2.38	4
F1A	20210524	Sunny	Moderate	Mid-Flood	Surface	1.0	16:18	8.74	8.68	30.15	29.64	2.83	3
F1A	20210524	Sunny	Moderate	Mid-Flood	Middle	4.0	16:17	9.58	8.30	30.10	29.64	2.52	4
F1A	20210524	Sunny	Moderate	Mid-Flood	Middle	4.0	16:17	9.57	8.64	30.19	29.79	2.16	4
F1A	20210524	Sunny	Moderate	Mid-Flood	Bottom	7.0	16:16	8.59	8.36	30.29	29.71	3.08	3
F1A	20210524	Sunny	Moderate	Mid-Flood	Bottom	7.0	16:16	9.46	8.42	29.64	29.67	3.42	3
H1	20210524	Sunny	Moderate	Mid-Flood	Surface	1.0	16:38	9.23	8.32	29.79	29.78	2.11	3
H1	20210524	Sunny	Moderate	Mid-Flood	Surface	1.0	16:38	9.31	8.72	30.30	29.76	2.35	3
H1	20210524	Sunny	Moderate	Mid-Flood	Middle	3.9	16:37	9.25	8.47	29.47	29.75	2.39	3
H1	20210524	Sunny	Moderate	Mid-Flood	Middle	3.9	16:37	9.23	8.42	29.76	29.64	2.54	3

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	20210524	Sunny	Moderate	Mid-Flood	Bottom	6.7	16:36	9.62	8.59	29.53	29.64	2.99	2
H1	20210524	Sunny	Moderate	Mid-Flood	Bottom	6.7	16:36	9.05	8.33	30.03	29.72	3.21	2
M1	20210524	Sunny	Moderate	Mid-Flood	Surface	1.0	16:47	8.70	8.53	29.54	29.68	2.73	3
M1	20210524	Sunny	Moderate	Mid-Flood	Surface	1.0	16:47	9.57	8.40	29.73	29.67	2.30	3
M1	20210524	Sunny	Moderate	Mid-Flood	Middle	3.8	16:46	9.14	8.62	29.47	29.68	2.54	3
M1	20210524	Sunny	Moderate	Mid-Flood	Middle	3.8	16:46	8.60	8.52	30.20	29.58	2.24	3
M1	20210524	Sunny	Moderate	Mid-Flood	Bottom	6.5	16:45	8.67	8.56	29.63	29.72	3.62	2
M1	20210524	Sunny	Moderate	Mid-Flood	Bottom	6.5	16:45	9.17	8.69	30.25	29.62	3.65	2
B1	20210526	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:47	9.82	8.27	30.13	29.63	2.31	2
B1	20210526	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:47	8.77	8.37	29.91	29.86	2.52	3
B1	20210526	Sunny	Moderate	Mid-Ebb	Bottom	3.6	10:46	9.51	8.43	29.97	29.67	2.52	2
B1	20210526	Sunny	Moderate	Mid-Ebb	Bottom	3.6	10:46	8.90	8.36	30.07	29.66	2.47	2
B2	20210526	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:04	8.34	8.39	30.10	29.80	2.55	3
B2	20210526	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:04	9.17	8.30	30.31	29.59	2.19	4
B2	20210526	Sunny	Moderate	Mid-Ebb	Bottom	4.0	11:03	9.09	8.27	29.67	29.59	2.93	3
B2	20210526	Sunny	Moderate	Mid-Ebb	Bottom	4.0	11:03	8.86	8.27	29.63	29.85	2.99	3
В3	20210526	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:16	8.64	8.30	29.99	29.91	2.07	4
В3	20210526	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:16	8.28	8.34	29.53	30.20	1.98	4
В3	20210526	Sunny	Moderate	Mid-Ebb	Bottom	4.2	12:15	8.59	8.35	30.02	30.02	2.86	3
В3	20210526	Sunny	Moderate	Mid-Ebb	Bottom	4.2	12:15	8.53	8.40	29.90	29.96	3.06	3
B4	20210526	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:07	9.46	8.35	29.38	30.07	2.87	4
B4	20210526	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:07	9.36	8.32	29.60	29.88	3.01	3
B4	20210526	Sunny	Moderate	Mid-Ebb	Bottom	3.9	12:06	8.77	8.39	30.12	29.94	2.41	4
B4	20210526	Sunny	Moderate	Mid-Ebb	Bottom	3.9	12:06	9.11	8.27	30.02	29.98	2.60	3
C1A	20210526	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:19	9.81	8.27	29.42	29.69	2.91	4
C1A	20210526	Sunny	Moderate	Mid-Ebb	Surface	1.0	10:19	8.48	8.38	29.61	29.74	3.38	3
C1A	20210526	Sunny	Moderate	Mid-Ebb	Middle	4.9	10:18	9.24	8.40	29.98	29.50	3.08	4
C1A	20210526	Sunny	Moderate	Mid-Ebb	Middle	4.9	10:18	8.36	8.28	29.75	29.80	2.85	3
C1A	20210526	Sunny	Moderate	Mid-Ebb	Bottom	8.8	10:17	8.23	8.24	29.58	29.59	3.06	4
C1A	20210526	Sunny	Moderate	Mid-Ebb	Bottom	8.8	10:17	8.42	8.38	30.27	29.61	3.29	5
C2A	20210526	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:16	9.15	8.40	29.67	30.05	3.15	4
C2A	20210526	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:16	9.14	8.33	29.58	30.20	3.04	4

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)
C2A	20210526	Sunny	Moderate	Mid-Ebb	Middle	6.3	12:15	9.80	8.30	29.76	30.05	3.24	4
C2A	20210526	Sunny	Moderate	Mid-Ebb	Middle	6.3	12:15	8.76	8.26	30.03	29.98	3.27	3
C2A	20210526	Sunny	Moderate	Mid-Ebb	Bottom	11.5	12:14	9.09	8.37	29.91	30.12	3.31	3
C2A	20210526	Sunny	Moderate	Mid-Ebb	Bottom	11.5	12:14	9.71	8.28	29.49	30.08	3.44	4
CR1	20210526	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:56	8.33	8.41	30.20	29.98	2.04	2
CR1	20210526	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:56	9.23	8.26	30.04	29.97	2.23	3
CR1	20210526	Sunny	Moderate	Mid-Ebb	Middle	6.2	11:55	9.79	8.35	30.30	30.08	2.32	3
CR1	20210526	Sunny	Moderate	Mid-Ebb	Middle	6.2	11:55	9.01	8.25	30.11	29.87	2.23	2
CR1	20210526	Sunny	Moderate	Mid-Ebb	Bottom	11.4	11:54	8.72	8.40	30.10	29.97	3.27	2
CR1	20210526	Sunny	Moderate	Mid-Ebb	Bottom	11.4	11:54	9.06	8.39	29.97	30.07	2.78	2
CR2	20210526	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:43	9.60	8.33	29.40	29.86	2.14	2
CR2	20210526	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:43	8.43	8.30	29.83	29.89	2.40	3
CR2	20210526	Sunny	Moderate	Mid-Ebb	Middle	5.9	11:42	9.74	8.27	30.31	29.92	2.60	3
CR2	20210526	Sunny	Moderate	Mid-Ebb	Middle	5.9	11:42	8.97	8.31	29.54	29.86	2.73	2
CR2	20210526	Sunny	Moderate	Mid-Ebb	Bottom	10.7	11:41	8.74	8.41	29.65	29.97	2.79	2
CR2	20210526	Sunny	Moderate	Mid-Ebb	Bottom	10.7	11:41	9.38	8.36	29.93	29.70	2.41	2
F1A	20210526	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:40	9.48	8.40	29.38	29.81	2.63	3
F1A	20210526	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:40	9.80	8.30	30.22	29.91	2.44	4
F1A	20210526	Sunny	Moderate	Mid-Ebb	Middle	4.1	11:39	8.97	8.33	29.66	29.85	3.18	3
F1A	20210526	Sunny	Moderate	Mid-Ebb	Middle	4.1	11:39	9.87	8.26	29.79	29.75	3.08	4
F1A	20210526	Sunny	Moderate	Mid-Ebb	Bottom	7.2	11:38	8.23	8.39	29.63	29.74	2.51	3
F1A	20210526	Sunny	Moderate	Mid-Ebb	Bottom	7.2	11:38	9.18	8.25	29.53	29.78	2.84	3
H1	20210526	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:29	9.34	8.40	29.56	29.78	3.08	3
H1	20210526	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:29	8.66	8.26	30.06	29.83	2.88	2
H1	20210526	Sunny	Moderate	Mid-Ebb	Middle	3.9	11:28	9.27	8.32	30.36	29.75	2.11	3
H1	20210526	Sunny	Moderate	Mid-Ebb	Middle	3.9	11:28	9.05	8.26	29.48	29.88	2.38	2
H1	20210526	Sunny	Moderate	Mid-Ebb	Bottom	6.8	11:27	8.74	8.35	29.79	29.79	3.06	3
H1	20210526	Sunny	Moderate	Mid-Ebb	Bottom	6.8	11:27	9.72	8.31	30.14	29.98	2.65	3
M1	20210526	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:12	8.49	8.24	29.82	29.70	3.04	2
M1	20210526	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:12	8.57	8.24	29.90	29.74	2.72	3
M1	20210526	Sunny	Moderate	Mid-Ebb	Middle	4.4	11:11	9.82	8.35	29.47	29.76	3.22	3
M1	20210526	Sunny	Moderate	Mid-Ebb	Middle	4.4	11:11	9.19	8.36	29.84	29.83	3.11	2

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)
M1	20210526	Sunny	Moderate	Mid-Ebb	Bottom	7.7	11:10	8.93	8.28	30.20	29.69	2.60	2
M1	20210526	Sunny	Moderate	Mid-Ebb	Bottom	7.7	11:10	9.44	8.37	29.63	29.64	2.76	2
B1	20210526	Sunny	Moderate	Mid-Flood	Surface	1.0	15:59	9.25	8.53	29.95	30.35	2.32	3
B1	20210526	Sunny	Moderate	Mid-Flood	Surface	1.0	15:59	9.71	8.41	30.35	30.23	2.67	2
B1	20210526	Sunny	Moderate	Mid-Flood	Bottom	3.5	15:58	9.77	8.60	29.88	30.32	3.10	3
B1	20210526	Sunny	Moderate	Mid-Flood	Bottom	3.5	15:58	10.07	8.62	30.24	30.31	3.13	2
B2	20210526	Sunny	Moderate	Mid-Flood	Surface	1.0	16:17	9.28	8.60	29.86	30.37	2.15	3
B2	20210526	Sunny	Moderate	Mid-Flood	Surface	1.0	16:17	9.30	8.60	29.67	30.28	2.16	3
B2	20210526	Sunny	Moderate	Mid-Flood	Bottom	3.6	16:16	9.19	8.62	30.23	30.26	3.00	2
B2	20210526	Sunny	Moderate	Mid-Flood	Bottom	3.6	16:16	8.68	8.55	30.06	30.37	2.72	2
В3	20210526	Sunny	Moderate	Mid-Flood	Surface	1.0	15:49	8.84	8.56	29.63	30.28	2.19	2
В3	20210526	Sunny	Moderate	Mid-Flood	Surface	1.0	15:49	9.85	8.49	30.16	30.21	2.57	2
В3	20210526	Sunny	Moderate	Mid-Flood	Bottom	3.7	15:48	10.07	8.43	30.17	30.31	2.60	2
В3	20210526	Sunny	Moderate	Mid-Flood	Bottom	3.7	15:48	8.49	8.44	30.08	30.22	2.60	2
В4	20210526	Sunny	Moderate	Mid-Flood	Surface	1.0	15:58	9.47	8.47	29.75	30.37	2.25	2
В4	20210526	Sunny	Moderate	Mid-Flood	Surface	1.0	15:58	10.05	8.41	29.66	30.24	2.25	2
В4	20210526	Sunny	Moderate	Mid-Flood	Bottom	4.4	15:57	9.42	8.60	30.23	30.40	2.86	2
B4	20210526	Sunny	Moderate	Mid-Flood	Bottom	4.4	15:57	9.64	8.54	30.03	30.26	3.39	2
C1A	20210526	Sunny	Moderate	Mid-Flood	Surface	1.0	15:32	9.03	8.56	29.96	30.11	3.01	2
C1A	20210526	Sunny	Moderate	Mid-Flood	Surface	1.0	15:32	9.50	8.45	29.79	30.25	3.24	2
C1A	20210526	Sunny	Moderate	Mid-Flood	Middle	5.8	15:31	8.51	8.51	29.59	30.12	3.63	4
C1A	20210526	Sunny	Moderate	Mid-Flood	Middle	5.8	15:31	8.82	8.59	30.33	30.22	3.55	3
C1A	20210526	Sunny	Moderate	Mid-Flood	Bottom	10.6	15:30	9.96	8.38	29.62	30.23	2.90	3
C1A	20210526	Sunny	Moderate	Mid-Flood	Bottom	10.6	15:30	9.52	8.62	29.76	30.24	3.29	4
C2A	20210526	Sunny	Moderate	Mid-Flood	Surface	1.0	15:32	9.81	8.38	29.78	30.15	3.11	2
C2A	20210526	Sunny	Moderate	Mid-Flood	Surface	1.0	15:32	9.89	8.53	29.68	30.27	2.80	2
C2A	20210526	Sunny	Moderate	Mid-Flood	Middle	5.9	15:31	9.93	8.62	29.93	30.18	3.06	3
C2A	20210526	Sunny	Moderate	Mid-Flood	Middle	5.9	15:31	9.46	8.46	29.63	30.12	2.67	3
C2A	20210526	Sunny	Moderate	Mid-Flood	Bottom	10.8	15:30	8.57	8.56	29.91	30.29	3.03	3
C2A	20210526	Sunny	Moderate	Mid-Flood	Bottom	10.8	15:30	9.26	8.41	30.12	30.21	3.28	3
CR1	20210526	Sunny	Moderate	Mid-Flood	Surface	1.0	17:12	9.87	8.56	29.67	30.17	2.94	3
CR1	20210526	Sunny	Moderate	Mid-Flood	Surface	1.0	17:12	8.72	8.39	30.08	30.10	2.74	3

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)
CR1	20210526	Sunny	Moderate	Mid-Flood	Middle	6.2	17:11	8.63	8.55	29.58	30.12	2.89	2
CR1	20210526	Sunny	Moderate	Mid-Flood	Middle	6.2	17:11	9.28	8.62	30.23	30.02	2.61	2
CR1	20210526	Sunny	Moderate	Mid-Flood	Bottom	11.4	17:10	10.01	8.58	29.87	30.16	2.95	2
CR1	20210526	Sunny	Moderate	Mid-Flood	Bottom	11.4	17:10	9.95	8.56	30.13	30.17	3.40	2
CR2	20210526	Sunny	Moderate	Mid-Flood	Surface	1.0	17:00	9.97	8.61	29.56	30.13	2.69	3
CR2	20210526	Sunny	Moderate	Mid-Flood	Surface	1.0	17:00	9.74	8.45	29.54	30.21	2.93	2
CR2	20210526	Sunny	Moderate	Mid-Flood	Middle	5.5	16:59	9.10	8.52	30.22	30.17	2.67	2
CR2	20210526	Sunny	Moderate	Mid-Flood	Middle	5.5	16:59	8.86	8.54	30.09	30.16	2.26	2
CR2	20210526	Sunny	Moderate	Mid-Flood	Bottom	10.0	16:58	8.74	8.49	29.62	30.17	2.58	2
CR2	20210526	Sunny	Moderate	Mid-Flood	Bottom	10.0	16:58	9.68	8.52	29.66	30.04	2.80	2
F1A	20210526	Sunny	Moderate	Mid-Flood	Surface	1.0	16:26	9.73	8.57	29.89	30.34	2.15	2
F1A	20210526	Sunny	Moderate	Mid-Flood	Surface	1.0	16:26	8.81	8.47	30.27	30.40	2.09	2
F1A	20210526	Sunny	Moderate	Mid-Flood	Middle	4.3	16:25	9.90	8.61	29.93	30.26	2.31	3
F1A	20210526	Sunny	Moderate	Mid-Flood	Middle	4.3	16:25	10.03	8.58	30.37	30.24	2.17	2
F1A	20210526	Sunny	Moderate	Mid-Flood	Bottom	7.5	16:24	8.74	8.40	30.02	30.37	2.59	3
F1A	20210526	Sunny	Moderate	Mid-Flood	Bottom	7.5	16:24	8.66	8.49	29.91	30.30	2.32	3
H1	20210526	Sunny	Moderate	Mid-Flood	Surface	1.0	16:47	9.09	8.39	29.75	30.20	2.22	2
H1	20210526	Sunny	Moderate	Mid-Flood	Surface	1.0	16:47	9.31	8.42	29.95	30.17	2.07	2
H1	20210526	Sunny	Moderate	Mid-Flood	Middle	3.8	16:46	9.72	8.40	30.28	30.16	2.49	2
H1	20210526	Sunny	Moderate	Mid-Flood	Middle	3.8	16:46	9.22	8.40	29.89	30.22	2.70	2
H1	20210526	Sunny	Moderate	Mid-Flood	Bottom	6.6	16:45	8.68	8.48	30.20	30.25	2.91	2
H1	20210526	Sunny	Moderate	Mid-Flood	Bottom	6.6	16:45	8.84	8.53	30.34	30.26	2.66	2
M1	20210526	Sunny	Moderate	Mid-Flood	Surface	1.0	16:54	8.51	8.53	29.61	30.34	2.46	2
M1	20210526	Sunny	Moderate	Mid-Flood	Surface	1.0	16:54	9.69	8.47	29.65	30.36	2.11	2
M1	20210526	Sunny	Moderate	Mid-Flood	Middle	3.9	16:53	10.11	8.42	30.01	30.25	2.20	2
M1	20210526	Sunny	Moderate	Mid-Flood	Middle	3.9	16:53	10.08	8.55	30.07	30.17	2.33	2
M1	20210526	Sunny	Moderate	Mid-Flood	Bottom	6.8	16:52	9.17	8.59	30.17	30.27	2.69	4
M1	20210526	Sunny	Moderate	Mid-Flood	Bottom	6.8	16:52	9.71	8.51	30.16	30.27	2.54	4
B1	20210528	Sunny	Moderate	Mid-Flood	Surface	1.0	09:26	9.17	9.06	29.51	28.73	2.14	3
B1	20210528	Sunny	Moderate	Mid-Flood	Surface	1.0	09:26	8.70	8.90	29.56	28.84	2.13	4
B1	20210528	Sunny	Moderate	Mid-Flood	Bottom	3.8	09:25	9.51	8.68	29.59	28.84	2.54	4
B1	20210528	Sunny	Moderate	Mid-Flood	Bottom	3.8	09:25	7.85	8.69	29.52	28.94	2.30	3

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)
B2	20210528	Sunny	Moderate	Mid-Flood	Surface	1.0	09:43	8.49	8.96	29.76	28.87	2.38	5
B2	20210528	Sunny	Moderate	Mid-Flood	Surface	1.0	09:43	8.27	8.63	29.88	28.93	2.19	6
B2	20210528	Sunny	Moderate	Mid-Flood	Bottom	3.8	09:42	9.46	8.76	29.38	28.92	3.01	5
B2	20210528	Sunny	Moderate	Mid-Flood	Bottom	3.8	09:42	8.85	8.84	29.27	28.81	2.58	6
В3	20210528	Sunny	Moderate	Mid-Flood	Surface	1.0	10:25	9.21	9.02	29.76	28.88	2.55	6
В3	20210528	Sunny	Moderate	Mid-Flood	Surface	1.0	10:25	8.72	8.77	29.39	28.71	2.18	5
В3	20210528	Sunny	Moderate	Mid-Flood	Bottom	4.0	10:24	8.47	8.87	29.70	28.84	3.15	8
В3	20210528	Sunny	Moderate	Mid-Flood	Bottom	4.0	10:24	8.86	8.80	29.40	28.78	3.10	8
B4	20210528	Sunny	Moderate	Mid-Flood	Surface	1.0	10:14	8.46	8.94	29.48	28.82	2.47	6
B4	20210528	Sunny	Moderate	Mid-Flood	Surface	1.0	10:14	9.04	9.07	29.58	28.93	2.44	7
B4	20210528	Sunny	Moderate	Mid-Flood	Bottom	4.1	10:13	9.15	8.80	29.88	28.95	2.53	6
B4	20210528	Sunny	Moderate	Mid-Flood	Bottom	4.1	10:13	9.20	8.63	29.50	28.96	2.68	5
C1A	20210528	Sunny	Moderate	Mid-Flood	Surface	1.0	08:59	9.38	8.88	29.95	28.93	3.22	4
C1A	20210528	Sunny	Moderate	Mid-Flood	Surface	1.0	08:59	9.57	8.66	29.69	28.76	3.38	5
C1A	20210528	Sunny	Moderate	Mid-Flood	Middle	5.6	08:58	8.47	9.06	29.91	28.70	3.24	5
C1A	20210528	Sunny	Moderate	Mid-Flood	Middle	5.6	08:58	9.17	8.66	29.81	28.88	3.50	6
C1A	20210528	Sunny	Moderate	Mid-Flood	Bottom	10.1	08:57	9.60	8.85	29.48	28.82	3.37	5
C1A	20210528	Sunny	Moderate	Mid-Flood	Bottom	10.1	08:57	9.31	8.79	30.02	28.93	3.41	5
C2A	20210528	Sunny	Moderate	Mid-Flood	Surface	1.0	08:02	9.17	8.67	29.34	28.96	3.21	4
C2A	20210528	Sunny	Moderate	Mid-Flood	Surface	1.0	08:02	8.92	8.79	29.91	28.73	3.49	5
C2A	20210528	Sunny	Moderate	Mid-Flood	Middle	5.9	08:01	9.33	8.95	29.95	28.70	3.06	5
C2A	20210528	Sunny	Moderate	Mid-Flood	Middle	5.9	08:01	9.14	8.76	29.56	28.71	3.18	6
C2A	20210528	Sunny	Moderate	Mid-Flood	Bottom	10.7	08:00	8.67	8.68	29.27	28.92	3.28	5
C2A	20210528	Sunny	Moderate	Mid-Flood	Bottom	10.7	08:00	8.75	9.02	29.84	28.89	3.20	6
CR1	20210528	Sunny	Moderate	Mid-Flood	Surface	1.0	08:27	8.78	8.83	29.87	28.75	2.24	5
CR1	20210528	Sunny	Moderate	Mid-Flood	Surface	1.0	08:27	9.52	8.71	29.21	28.94	2.14	6
CR1	20210528	Sunny	Moderate	Mid-Flood	Middle	6.6	08:26	9.38	8.82	29.75	28.95	2.95	5
CR1	20210528	Sunny	Moderate	Mid-Flood	Middle	6.6	08:26	8.61	8.93	30.00	28.72	2.51	5
CR1	20210528	Sunny	Moderate	Mid-Flood	Bottom	12.1	08:25	7.98	8.71	29.54	28.85	3.01	5
CR1	20210528	Sunny	Moderate	Mid-Flood	Bottom	12.1	08:25	8.78	8.70	29.40	28.89	3.45	4
CR2	20210528	Sunny	Moderate	Mid-Flood	Surface	1.0	08:40	8.39	8.72	29.24	28.93	2.40	4
CR2	20210528	Sunny	Moderate	Mid-Flood	Surface	1.0	08:40	9.56	8.67	29.84	28.89	2.75	3

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)
CR2	20210528	Sunny	Moderate	Mid-Flood	Middle	5.4	08:39	9.58	8.74	29.34	28.81	3.22	3
CR2	20210528	Sunny	Moderate	Mid-Flood	Middle	5.4	08:39	8.80	8.99	29.72	28.89	3.05	4
CR2	20210528	Sunny	Moderate	Mid-Flood	Bottom	9.7	08:38	8.17	8.85	29.28	28.88	3.52	5
CR2	20210528	Sunny	Moderate	Mid-Flood	Bottom	9.7	08:38	8.76	8.70	29.28	28.89	3.20	5
F1A	20210528	Sunny	Moderate	Mid-Flood	Surface	1.0	09:41	9.31	8.99	29.58	28.73	2.92	5
F1A	20210528	Sunny	Moderate	Mid-Flood	Surface	1.0	09:41	8.51	9.03	29.61	28.87	3.13	6
F1A	20210528	Sunny	Moderate	Mid-Flood	Middle	4.0	09:40	8.22	8.67	29.76	28.81	2.81	6
F1A	20210528	Sunny	Moderate	Mid-Flood	Middle	4.0	09:40	9.52	8.98	29.29	28.84	3.17	5
F1A	20210528	Sunny	Moderate	Mid-Flood	Bottom	7.0	09:39	7.99	8.95	29.43	28.84	2.74	4
F1A	20210528	Sunny	Moderate	Mid-Flood	Bottom	7.0	09:39	8.26	9.02	29.49	28.84	2.69	5
H1	20210528	Sunny	Moderate	Mid-Flood	Surface	1.0	10:11	9.30	8.73	29.24	28.71	2.54	4
H1	20210528	Sunny	Moderate	Mid-Flood	Surface	1.0	10:11	9.40	8.93	29.98	28.84	2.30	3
H1	20210528	Sunny	Moderate	Mid-Flood	Middle	3.8	10:10	8.59	9.02	29.82	28.78	2.67	5
H1	20210528	Sunny	Moderate	Mid-Flood	Middle	3.8	10:10	8.77	8.66	29.91	28.74	2.89	6
H1	20210528	Sunny	Moderate	Mid-Flood	Bottom	6.6	10:09	8.67	9.06	29.96	28.93	2.84	5
H1	20210528	Sunny	Moderate	Mid-Flood	Bottom	6.6	10:09	9.59	9.01	29.60	28.79	2.77	6
M1	20210528	Sunny	Moderate	Mid-Flood	Surface	1.0	09:12	9.25	8.69	29.41	28.75	2.10	6
M1	20210528	Sunny	Moderate	Mid-Flood	Surface	1.0	09:12	9.16	8.75	29.33	28.91	2.26	5
M1	20210528	Sunny	Moderate	Mid-Flood	Middle	4.0	09:11	7.99	8.82	29.99	28.73	2.53	5
M1	20210528	Sunny	Moderate	Mid-Flood	Middle	4.0	09:11	8.11	8.99	29.76	28.84	2.19	6
M1	20210528	Sunny	Moderate	Mid-Flood	Bottom	6.9	09:10	8.57	8.70	29.40	28.79	2.99	3
M1	20210528	Sunny	Moderate	Mid-Flood	Bottom	6.9	09:10	8.94	8.65	30.00	28.75	2.64	4
B1	20210528	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:23	8.85	8.60	29.29	29.57	2.78	6
B1	20210528	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:23	8.78	8.62	30.00	29.56	2.84	5
B1	20210528	Sunny	Moderate	Mid-Ebb	Bottom	3.5	12:22	8.94	8.50	29.95	29.43	3.50	4
B1	20210528	Sunny	Moderate	Mid-Ebb	Bottom	3.5	12:22	9.16	8.50	29.84	29.60	3.48	5
B2	20210528	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:38	8.61	8.56	29.89	29.54	1.89	6
B2	20210528	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:38	7.88	8.61	29.76	29.52	1.98	6
B2	20210528	Sunny	Moderate	Mid-Ebb	Bottom	4.4	12:37	8.54	8.49	29.37	29.56	3.24	5
B2	20210528	Sunny	Moderate	Mid-Ebb	Bottom	4.4	12:37	8.06	8.57	30.08	29.48	2.72	5
В3	20210528	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:21	7.99	8.58	29.81	29.44	2.18	4
В3	20210528	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:21	8.46	8.48	29.41	29.43	1.97	5

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)
В3	20210528	Sunny	Moderate	Mid-Ebb	Bottom	4.2	12:20	8.28	8.60	29.74	29.39	2.54	3
В3	20210528	Sunny	Moderate	Mid-Ebb	Bottom	4.2	12:20	7.58	8.47	30.07	29.52	2.88	4
B4	20210528	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:31	8.93	8.46	29.88	29.53	1.94	4
B4	20210528	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:31	8.50	8.59	29.79	29.54	2.31	4
B4	20210528	Sunny	Moderate	Mid-Ebb	Bottom	4.1	12:30	8.99	8.57	29.79	29.58	2.33	5
B4	20210528	Sunny	Moderate	Mid-Ebb	Bottom	4.1	12:30	9.24	8.59	29.72	29.40	2.63	4
C1A	20210528	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:56	8.65	8.60	29.65	29.32	3.42	4
C1A	20210528	Sunny	Moderate	Mid-Ebb	Surface	1.0	11:56	8.71	8.51	29.50	29.48	3.66	3
C1A	20210528	Sunny	Moderate	Mid-Ebb	Middle	5.4	11:55	9.02	8.47	30.11	29.38	3.71	4
C1A	20210528	Sunny	Moderate	Mid-Ebb	Middle	5.4	11:55	8.87	8.60	29.20	29.43	3.43	3
C1A	20210528	Sunny	Moderate	Mid-Ebb	Bottom	9.8	11:54	9.20	8.47	29.66	29.32	3.50	9
C1A	20210528	Sunny	Moderate	Mid-Ebb	Bottom	9.8	11:54	7.84	8.57	29.85	29.29	3.50	5
C2A	20210528	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:03	9.16	8.48	29.66	29.73	3.36	5
C2A	20210528	Sunny	Moderate	Mid-Ebb	Surface	1.0	12:03	7.76	8.51	29.68	29.63	3.13	4
C2A	20210528	Sunny	Moderate	Mid-Ebb	Middle	6.3	12:02	8.09	8.52	29.70	29.59	3.27	6
C2A	20210528	Sunny	Moderate	Mid-Ebb	Middle	6.3	12:02	8.46	8.56	29.41	29.77	3.02	7
C2A	20210528	Sunny	Moderate	Mid-Ebb	Bottom	11.5	12:01	8.53	8.58	29.91	29.59	3.53	7
C2A	20210528	Sunny	Moderate	Mid-Ebb	Bottom	11.5	12:01	8.55	8.52	29.28	29.70	3.58	6
CR1	20210528	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:34	9.08	8.59	29.90	29.71	2.56	4
CR1	20210528	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:34	9.16	8.56	29.88	29.57	2.45	4
CR1	20210528	Sunny	Moderate	Mid-Ebb	Middle	6.8	13:33	7.60	8.51	29.56	29.53	2.24	5
CR1	20210528	Sunny	Moderate	Mid-Ebb	Middle	6.8	13:33	7.87	8.58	30.11	29.55	2.23	6
CR1	20210528	Sunny	Moderate	Mid-Ebb	Bottom	12.5	13:32	7.83	8.55	29.55	29.67	2.68	6
CR1	20210528	Sunny	Moderate	Mid-Ebb	Bottom	12.5	13:32	8.70	8.60	29.50	29.61	2.78	5
CR2	20210528	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:21	7.65	8.60	29.14	29.72	3.00	3
CR2	20210528	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:21	8.36	8.61	30.09	29.67	2.92	4
CR2	20210528	Sunny	Moderate	Mid-Ebb	Middle	6.1	13:20	7.74	8.55	29.43	29.58	3.11	4
CR2	20210528	Sunny	Moderate	Mid-Ebb	Middle	6.1	13:20	8.96	8.50	29.66	29.64	2.97	5
CR2	20210528	Sunny	Moderate	Mid-Ebb	Bottom	11.1	13:19	7.67	8.55	29.23	29.63	2.52	4
CR2	20210528	Sunny	Moderate	Mid-Ebb	Bottom	11.1	13:19	8.55	8.60	29.64	29.71	2.82	5
F1A	20210528	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:00	8.85	8.49	29.92	29.62	2.66	6
F1A	20210528	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:00	8.04	8.52	29.66	29.50	2.50	5

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)
F1A	20210528	Sunny	Moderate	Mid-Ebb	Middle	4.1	12:59	8.55	8.58	29.19	29.58	2.28	6
F1A	20210528	Sunny	Moderate	Mid-Ebb	Middle	4.1	12:59	8.82	8.56	29.31	29.61	2.35	5
F1A	20210528	Sunny	Moderate	Mid-Ebb	Bottom	7.1	12:58	8.75	8.45	29.77	29.52	3.48	5
F1A	20210528	Sunny	Moderate	Mid-Ebb	Bottom	7.1	12:58	8.03	8.45	29.71	29.61	2.98	5
H1	20210528	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:05	8.69	8.58	30.11	29.69	2.96	6
H1	20210528	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:05	8.50	8.62	29.33	29.47	2.71	5
H1	20210528	Sunny	Moderate	Mid-Ebb	Middle	4.5	13:04	8.81	8.57	29.55	29.48	2.54	5
H1	20210528	Sunny	Moderate	Mid-Ebb	Middle	4.5	13:04	7.57	8.60	29.62	29.69	2.62	6
H1	20210528	Sunny	Moderate	Mid-Ebb	Bottom	7.9	13:03	9.22	8.57	29.18	29.54	3.18	7
H1	20210528	Sunny	Moderate	Mid-Ebb	Bottom	7.9	13:03	8.95	8.52	30.05	29.51	2.84	7
M1	20210528	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:27	9.11	8.57	29.17	29.78	2.45	7
M1	20210528	Sunny	Moderate	Mid-Ebb	Surface	1.0	13:27	8.66	8.46	29.38	29.76	2.19	7
M1	20210528	Sunny	Moderate	Mid-Ebb	Middle	4.5	13:26	8.10	8.57	29.50	29.68	2.53	4
M1	20210528	Sunny	Moderate	Mid-Ebb	Middle	4.5	13:26	7.77	8.56	29.34	29.68	2.24	4
M1	20210528	Sunny	Moderate	Mid-Ebb	Bottom	8.0	13:25	7.81	8.56	29.71	29.71	2.57	4
M1	20210528	Sunny	Moderate	Mid-Ebb	Bottom	8.0	13:25	9.17	8.57	29.39	29.67	2.43	5
B1	20210531	Cloudy	Moderate	Mid-Flood	Surface	1.0	09:24	8.65	8.52	29.94	29.47	2.13	4
B1	20210531	Cloudy	Moderate	Mid-Flood	Surface	1.0	09:24	8.06	8.48	29.34	29.21	1.99	3
B1	20210531	Cloudy	Moderate	Mid-Flood	Bottom	3.5	09:23	9.41	8.51	29.85	29.38	3.48	4
B1	20210531	Cloudy	Moderate	Mid-Flood	Bottom	3.5	09:23	9.13	8.42	29.47	29.25	2.93	3
B2	20210531	Cloudy	Moderate	Mid-Flood	Surface	1.0	09:41	9.25	8.49	29.48	29.32	2.33	3
B2	20210531	Cloudy	Moderate	Mid-Flood	Surface	1.0	09:41	8.05	8.49	29.92	29.30	2.56	4
B2	20210531	Cloudy	Moderate	Mid-Flood	Bottom	3.6	09:40	8.34	8.46	29.79	29.46	3.54	4
B2	20210531	Cloudy	Moderate	Mid-Flood	Bottom	3.6	09:40	7.95	8.57	29.44	29.30	3.61	4
В3	20210531	Cloudy	Moderate	Mid-Flood	Surface	1.0	09:55	9.57	8.38	29.30	29.51	2.60	4
В3	20210531	Cloudy	Moderate	Mid-Flood	Surface	1.0	09:55	8.37	8.46	29.58	29.53	2.26	5
В3	20210531	Cloudy	Moderate	Mid-Flood	Bottom	3.9	09:54	8.80	8.53	30.01	29.57	3.34	4
В3	20210531	Cloudy	Moderate	Mid-Flood	Bottom	3.9	09:54	9.16	8.52	29.72	29.46	3.06	4
B4	20210531	Cloudy	Moderate	Mid-Flood	Surface	1.0	09:45	9.21	8.52	29.81	29.30	3.10	3
B4	20210531	Cloudy	Moderate	Mid-Flood	Surface	1.0	09:45	8.18	8.47	29.97	29.30	2.65	3
B4	20210531	Cloudy	Moderate	Mid-Flood	Bottom	3.9	09:44	9.20	8.36	29.49	29.39	3.50	3
B4	20210531	Cloudy	Moderate	Mid-Flood	Bottom	3.9	09:44	8.31	8.51	29.46	29.24	3.37	3

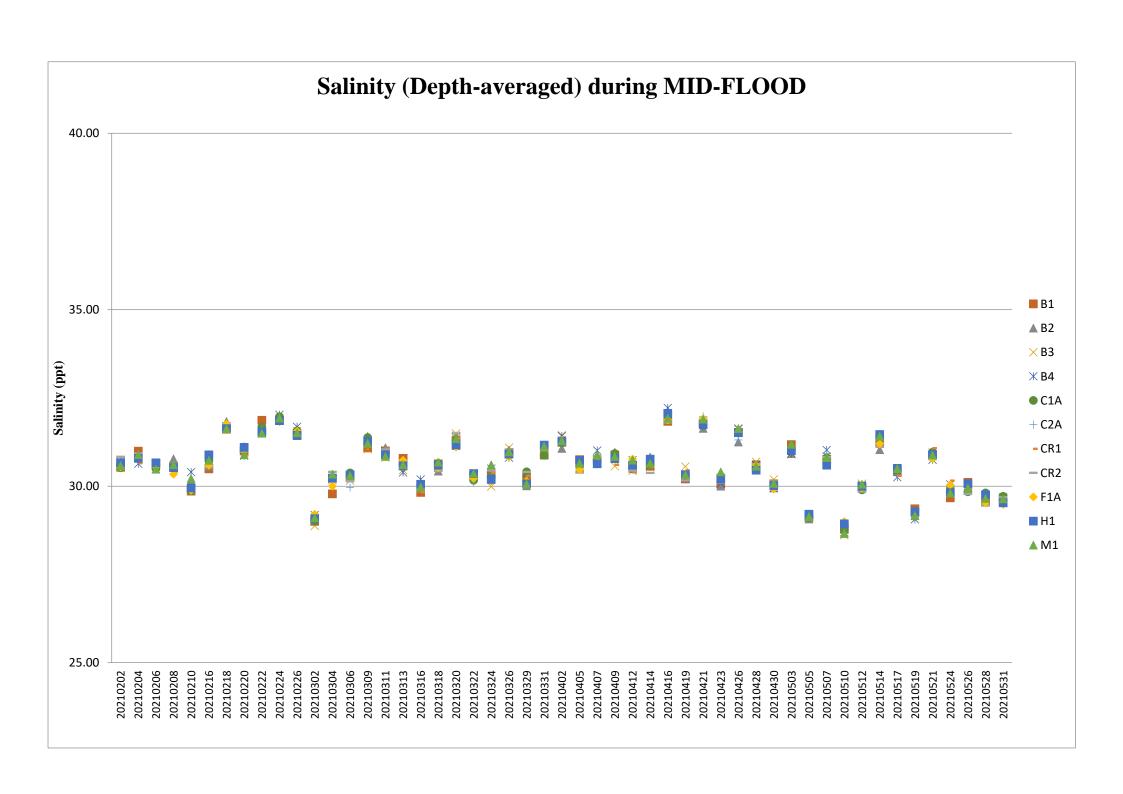
Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) Note 1	SS (mg/L)
C1A	20210531	Cloudy	Moderate	Mid-Flood	Surface	1.0	08:58	8.47	8.41	29.69	29.13	3.50	3
C1A	20210531	Cloudy	Moderate	Mid-Flood	Surface	1.0	08:58	8.26	8.47	29.90	29.11	3.21	4
C1A	20210531	Cloudy	Moderate	Mid-Flood	Middle	6.0	08:57	8.13	8.33	29.36	29.11	3.28	3
C1A	20210531	Cloudy	Moderate	Mid-Flood	Middle	6.0	08:57	9.39	8.39	29.81	29.12	3.55	4
C1A	20210531	Cloudy	Moderate	Mid-Flood	Bottom	11.0	08:56	8.57	8.54	29.48	29.16	3.33	4
C1A	20210531	Cloudy	Moderate	Mid-Flood	Bottom	11.0	08:56	8.91	8.40	30.04	29.11	3.60	5
C2A	20210531	Cloudy	Moderate	Mid-Flood	Surface	1.0	08:02	8.00	8.47	29.77	29.17	3.61	5
C2A	20210531	Cloudy	Moderate	Mid-Flood	Surface	1.0	08:02	8.75	8.40	29.37	28.94	3.28	4
C2A	20210531	Cloudy	Moderate	Mid-Flood	Middle	5.7	08:01	8.89	8.51	29.27	28.99	3.06	4
C2A	20210531	Cloudy	Moderate	Mid-Flood	Middle	5.7	08:01	9.02	8.51	29.74	29.07	3.46	4
C2A	20210531	Cloudy	Moderate	Mid-Flood	Bottom	10.3	08:00	8.36	8.48	29.80	28.94	4.10	4
C2A	20210531	Cloudy	Moderate	Mid-Flood	Bottom	10.3	08:00	8.88	8.47	29.61	29.08	3.58	3
CR1	20210531	Cloudy	Moderate	Mid-Flood	Surface	1.0	08:23	8.57	8.46	29.54	29.01	2.33	5
CR1	20210531	Cloudy	Moderate	Mid-Flood	Surface	1.0	08:23	9.37	8.34	29.63	29.02	2.07	4
CR1	20210531	Cloudy	Moderate	Mid-Flood	Middle	6.4	08:22	9.54	8.44	29.41	29.05	2.40	3
CR1	20210531	Cloudy	Moderate	Mid-Flood	Middle	6.4	08:22	9.41	8.41	29.85	29.20	2.42	4
CR1	20210531	Cloudy	Moderate	Mid-Flood	Bottom	11.8	08:21	9.33	8.36	29.56	29.07	3.54	3
CR1	20210531	Cloudy	Moderate	Mid-Flood	Bottom	11.8	08:21	8.81	8.34	29.78	29.12	3.06	3
CR2	20210531	Cloudy	Moderate	Mid-Flood	Surface	1.0	08:37	8.58	8.46	29.51	29.08	2.92	2
CR2	20210531	Cloudy	Moderate	Mid-Flood	Surface	1.0	08:37	8.10	8.54	29.54	29.07	2.59	3
CR2	20210531	Cloudy	Moderate	Mid-Flood	Middle	5.9	08:36	9.42	8.40	29.89	29.06	3.17	3
CR2	20210531	Cloudy	Moderate	Mid-Flood	Middle	5.9	08:36	8.46	8.39	29.47	29.02	3.26	3
CR2	20210531	Cloudy	Moderate	Mid-Flood	Bottom	10.8	08:35	8.15	8.44	29.74	29.05	2.54	4
CR2	20210531	Cloudy	Moderate	Mid-Flood	Bottom	10.8	08:35	9.60	8.45	30.00	29.17	2.94	3
F1A	20210531	Cloudy	Moderate	Mid-Flood	Surface	1.0	09:18	9.15	8.40	29.45	29.19	2.59	5
F1A	20210531	Cloudy	Moderate	Mid-Flood	Surface	1.0	09:18	8.92	8.57	29.40	29.45	2.37	5
F1A	20210531	Cloudy	Moderate	Mid-Flood	Middle	4.4	09:17	8.33	8.52	29.97	29.26	2.58	4
F1A	20210531	Cloudy	Moderate	Mid-Flood	Middle	4.4	09:17	9.58	8.39	29.52	29.37	3.06	4
F1A	20210531	Cloudy	Moderate	Mid-Flood	Bottom	7.8	09:16	9.31	8.33	29.23	29.19	2.80	5
F1A	20210531	Cloudy	Moderate	Mid-Flood	Bottom	7.8	09:16	8.35	8.33	29.34	29.47	2.53	4
H1	20210531	Cloudy	Moderate	Mid-Flood	Surface	1.0	10:09	9.64	8.54	29.95	29.48	2.33	4
H1	20210531	Cloudy	Moderate	Mid-Flood	Surface	1.0	10:09	9.57	8.33	29.55	29.48	2.73	3

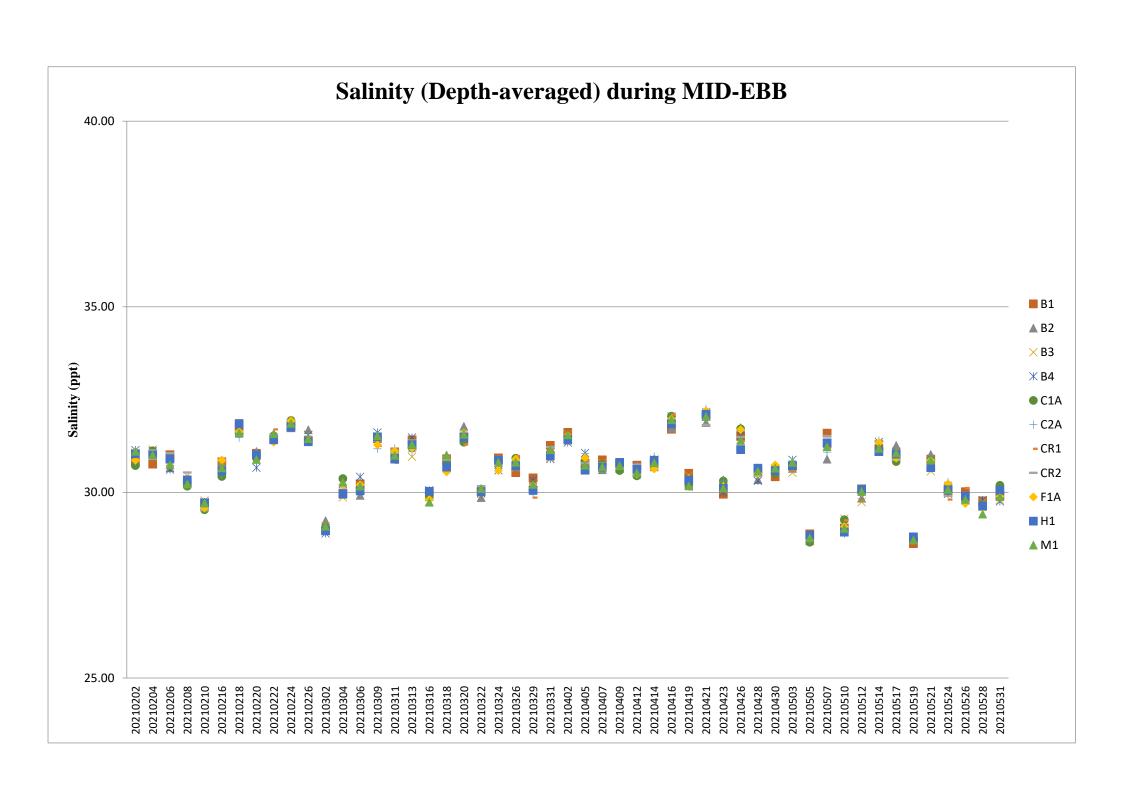
Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) Note 1	SS (mg/L)
H1	20210531	Cloudy	Moderate	Mid-Flood	Middle	4.1	10:08	8.76	8.45	29.60	29.38	2.95	3
H1	20210531	Cloudy	Moderate	Mid-Flood	Middle	4.1	10:08	8.57	8.33	29.32	29.48	2.50	4
H1	20210531	Cloudy	Moderate	Mid-Flood	Bottom	7.1	10:07	9.12	8.37	29.47	29.38	2.47	5
H1	20210531	Cloudy	Moderate	Mid-Flood	Bottom	7.1	10:07	8.52	8.33	29.26	29.36	2.82	6
M1	20210531	Cloudy	Moderate	Mid-Flood	Surface	1.0	08:52	8.32	8.53	29.29	29.14	2.45	3
M1	20210531	Cloudy	Moderate	Mid-Flood	Surface	1.0	08:52	8.51	8.57	29.92	29.36	2.65	3
M1	20210531	Cloudy	Moderate	Mid-Flood	Middle	4.1	08:51	9.26	8.50	29.65	29.19	2.51	4
M1	20210531	Cloudy	Moderate	Mid-Flood	Middle	4.1	08:51	7.95	8.34	29.46	29.33	2.25	3
M1	20210531	Cloudy	Moderate	Mid-Flood	Bottom	7.1	08:50	8.51	8.34	29.49	29.10	3.33	3
M1	20210531	Cloudy	Moderate	Mid-Flood	Bottom	7.1	08:50	9.10	8.44	30.03	29.25	3.12	3
B1	20210531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	14:57	9.72	8.66	29.83	29.51	2.34	4
B1	20210531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	14:57	8.35	8.61	30.13	29.67	2.64	5
B1	20210531	Cloudy	Moderate	Mid-Ebb	Bottom	4.1	14:56	8.89	8.61	29.63	29.57	2.48	3
B1	20210531	Cloudy	Moderate	Mid-Ebb	Bottom	4.1	14:56	8.88	8.64	30.04	29.59	2.68	3
B2	20210531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:11	10.00	8.61	29.49	29.72	2.88	3
B2	20210531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:11	9.41	8.58	29.73	29.58	2.55	2
B2	20210531	Cloudy	Moderate	Mid-Ebb	Bottom	4.5	15:10	8.38	8.69	30.08	29.67	2.47	2
B2	20210531	Cloudy	Moderate	Mid-Ebb	Bottom	4.5	15:10	9.48	8.51	30.41	29.78	2.14	3
В3	20210531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	14:48	9.84	8.65	29.75	29.52	2.38	3
В3	20210531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	14:48	9.07	8.53	29.75	29.63	2.21	4
В3	20210531	Cloudy	Moderate	Mid-Ebb	Bottom	4.1	14:47	9.93	8.71	29.82	29.67	2.54	4
В3	20210531	Cloudy	Moderate	Mid-Ebb	Bottom	4.1	14:47	9.47	8.71	29.84	29.50	2.50	3
B4	20210531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	14:58	8.67	8.68	29.67	29.49	2.21	4
B4	20210531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	14:58	9.66	8.65	29.94	29.57	2.51	4
B4	20210531	Cloudy	Moderate	Mid-Ebb	Bottom	3.1	14:57	8.68	8.69	29.86	29.52	2.96	5
B4	20210531	Cloudy	Moderate	Mid-Ebb	Bottom	3.1	14:57	9.24	8.67	29.56	29.52	3.16	4
C1A	20210531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	14:31	8.36	8.68	30.13	29.51	3.34	3
C1A	20210531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	14:31	8.66	8.59	29.84	29.39	2.90	3
C1A	20210531	Cloudy	Moderate	Mid-Ebb	Middle	4.7	14:30	8.60	8.69	30.37	29.49	3.06	5
C1A	20210531	Cloudy	Moderate	Mid-Ebb	Middle	4.7	14:30	9.13	8.62	30.47	29.62	2.81	4
C1A	20210531	Cloudy	Moderate	Mid-Ebb	Bottom	8.4	14:29	8.78	8.61	30.01	29.56	2.99	5
C1A	20210531	Cloudy	Moderate	Mid-Ebb	Bottom	8.4	14:29	8.57	8.57	30.33	29.59	3.02	4

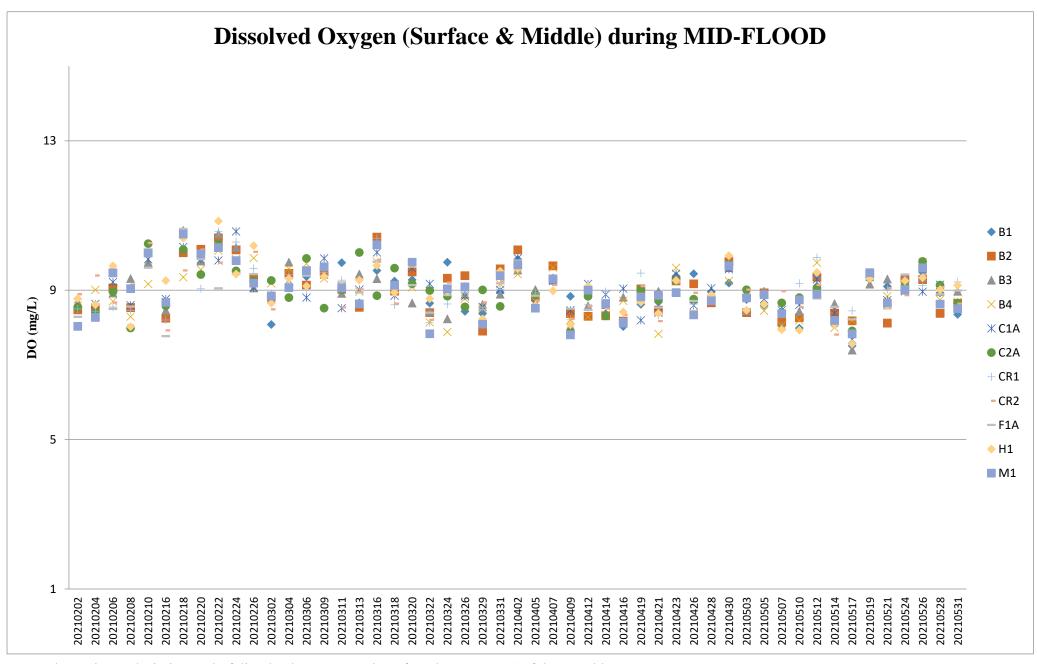
Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) Note 1	SS (mg/L)
C2A	20210531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	14:32	8.42	8.61	29.61	29.39	3.03	3
C2A	20210531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	14:32	10.01	8.58	30.03	29.42	3.26	3
C2A	20210531	Cloudy	Moderate	Mid-Ebb	Middle	5.7	14:31	9.78	8.54	30.33	29.53	3.15	4
C2A	20210531	Cloudy	Moderate	Mid-Ebb	Middle	5.7	14:31	8.39	8.71	29.75	29.46	3.71	4
C2A	20210531	Cloudy	Moderate	Mid-Ebb	Bottom	10.4	14:30	9.87	8.69	30.03	29.57	3.61	4
C2A	20210531	Cloudy	Moderate	Mid-Ebb	Bottom	10.4	14:30	9.08	8.67	30.20	29.43	3.26	5
CR1	20210531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:03	9.55	8.66	30.08	29.57	2.44	4
CR1	20210531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:03	9.69	8.52	30.23	29.34	2.08	5
CR1	20210531	Cloudy	Moderate	Mid-Ebb	Middle	6.4	16:02	9.54	8.55	29.59	29.53	2.72	2
CR1	20210531	Cloudy	Moderate	Mid-Ebb	Middle	6.4	16:02	8.54	8.53	30.01	29.41	2.95	3
CR1	20210531	Cloudy	Moderate	Mid-Ebb	Bottom	11.8	16:01	8.71	8.52	29.93	29.57	2.98	2
CR1	20210531	Cloudy	Moderate	Mid-Ebb	Bottom	11.8	16:01	9.52	8.62	30.23	29.54	3.43	2
CR2	20210531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:51	9.02	8.55	30.25	29.50	1.74	2
CR2	20210531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:51	9.17	8.51	30.40	29.41	2.05	3
CR2	20210531	Cloudy	Moderate	Mid-Ebb	Middle	6.2	15:50	9.99	8.67	30.28	29.52	2.84	2
CR2	20210531	Cloudy	Moderate	Mid-Ebb	Middle	6.2	15:50	9.32	8.68	29.85	29.42	3.18	3
CR2	20210531	Cloudy	Moderate	Mid-Ebb	Bottom	11.3	15:49	8.79	8.54	29.61	29.59	2.79	3
CR2	20210531	Cloudy	Moderate	Mid-Ebb	Bottom	11.3	15:49	8.75	8.52	29.62	29.51	3.05	4
F1A	20210531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:36	9.68	8.71	30.02	29.60	2.14	5
F1A	20210531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:36	8.99	8.63	30.29	29.52	2.24	5
F1A	20210531	Cloudy	Moderate	Mid-Ebb	Middle	4.3	15:35	9.77	8.72	29.70	29.73	2.14	4
F1A	20210531	Cloudy	Moderate	Mid-Ebb	Middle	4.3	15:35	9.48	8.69	29.77	29.54	2.41	5
F1A	20210531	Cloudy	Moderate	Mid-Ebb	Bottom	7.5	15:34	8.78	8.66	29.65	29.57	2.74	4
F1A	20210531	Cloudy	Moderate	Mid-Ebb	Bottom	7.5	15:34	8.59	8.67	29.89	29.75	2.30	5
H1	20210531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:37	9.29	8.65	30.17	29.75	2.56	5
H1	20210531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	15:37	9.88	8.69	29.60	29.71	2.57	4
H1	20210531	Cloudy	Moderate	Mid-Ebb	Middle	4.4	15:36	8.79	8.63	30.00	29.72	2.37	4
H1	20210531	Cloudy	Moderate	Mid-Ebb	Middle	4.4	15:36	8.88	8.63	30.27	29.56	1.99	5
H1	20210531	Cloudy	Moderate	Mid-Ebb	Bottom	7.7	15:35	8.54	8.55	30.13	29.60	3.05	4
H1	20210531	Cloudy	Moderate	Mid-Ebb	Bottom	7.7	15:35	8.61	8.56	30.17	29.54	2.82	3
M1	20210531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:01	9.55	8.61	30.43	29.52	2.23	4
M1	20210531	Cloudy	Moderate	Mid-Ebb	Surface	1.0	16:01	9.56	8.65	29.58	29.50	2.59	5

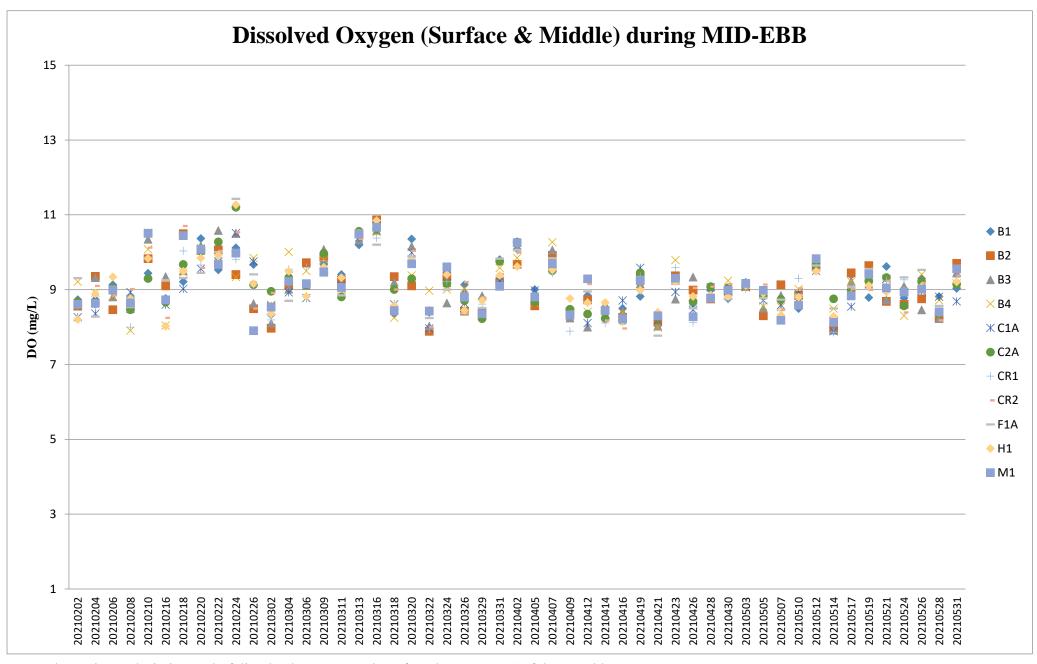
Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1

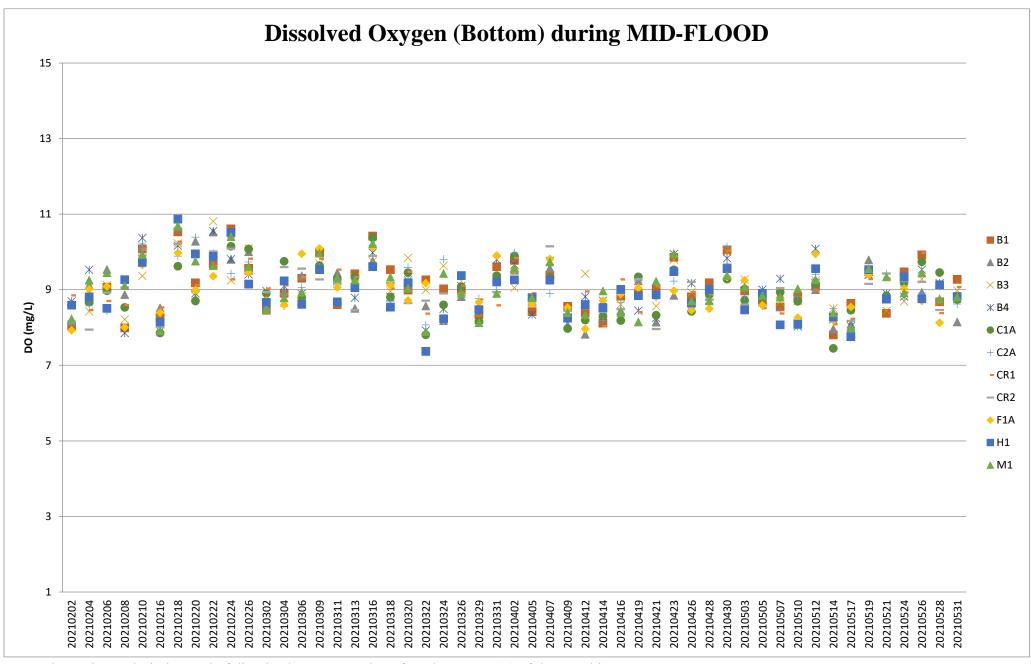
Location	Date (YYYYMMDD)	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU) Note 1	SS (mg/L)
M1	20210531	Cloudy	Moderate	Mid-Ebb	Middle	4.9	16:00	9.42	8.69	29.73	29.64	2.04	3
M1	20210531	Cloudy	Moderate	Mid-Ebb	Middle	4.9	16:00	9.71	8.60	29.56	29.55	1.96	4
M1	20210531	Cloudy	Moderate	Mid-Ebb	Bottom	8.8	15:59	9.61	8.55	29.67	29.59	2.49	4
M1	20210531	Cloudy	Moderate	Mid-Ebb	Bottom	8.8	15:59	9.69	8.70	30.31	29.51	2.91	3

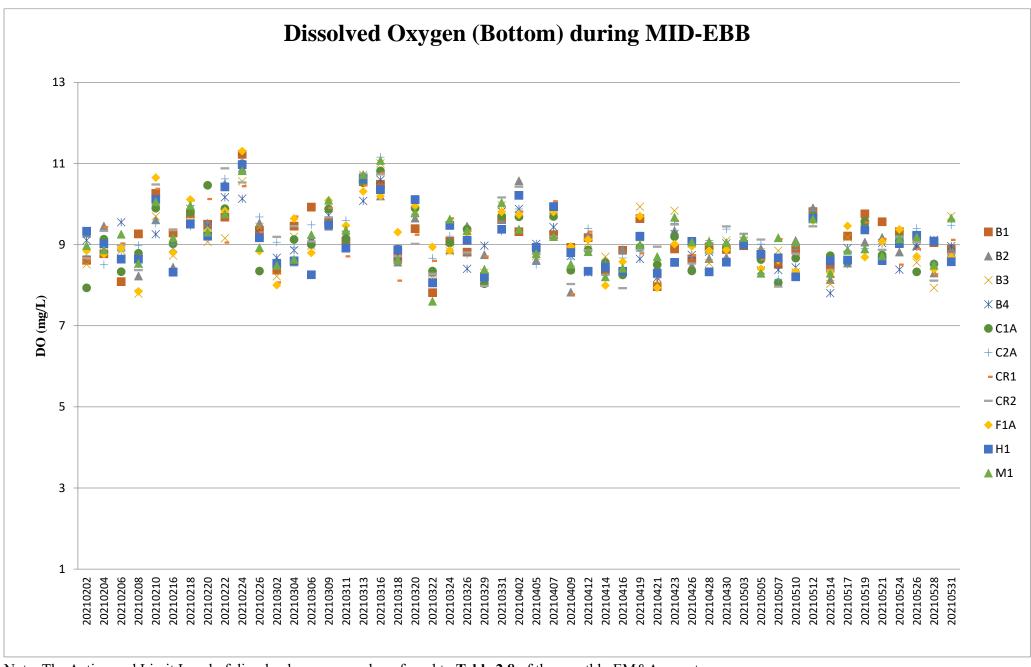


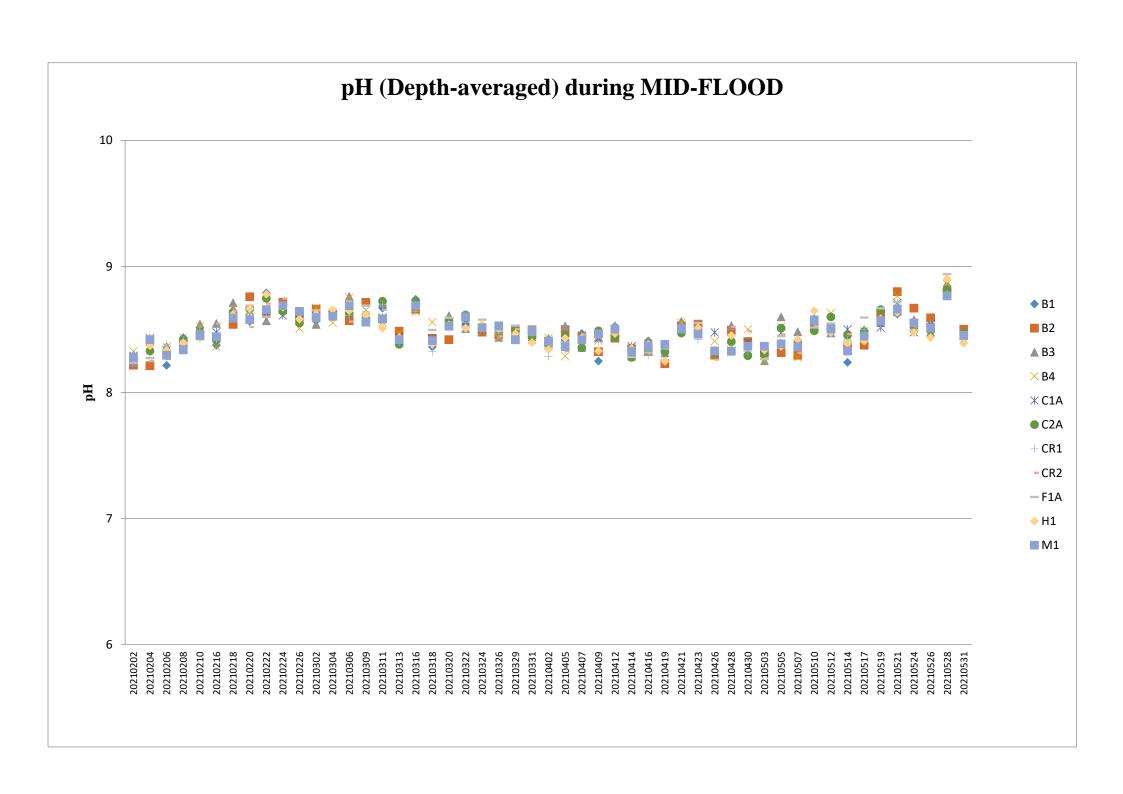


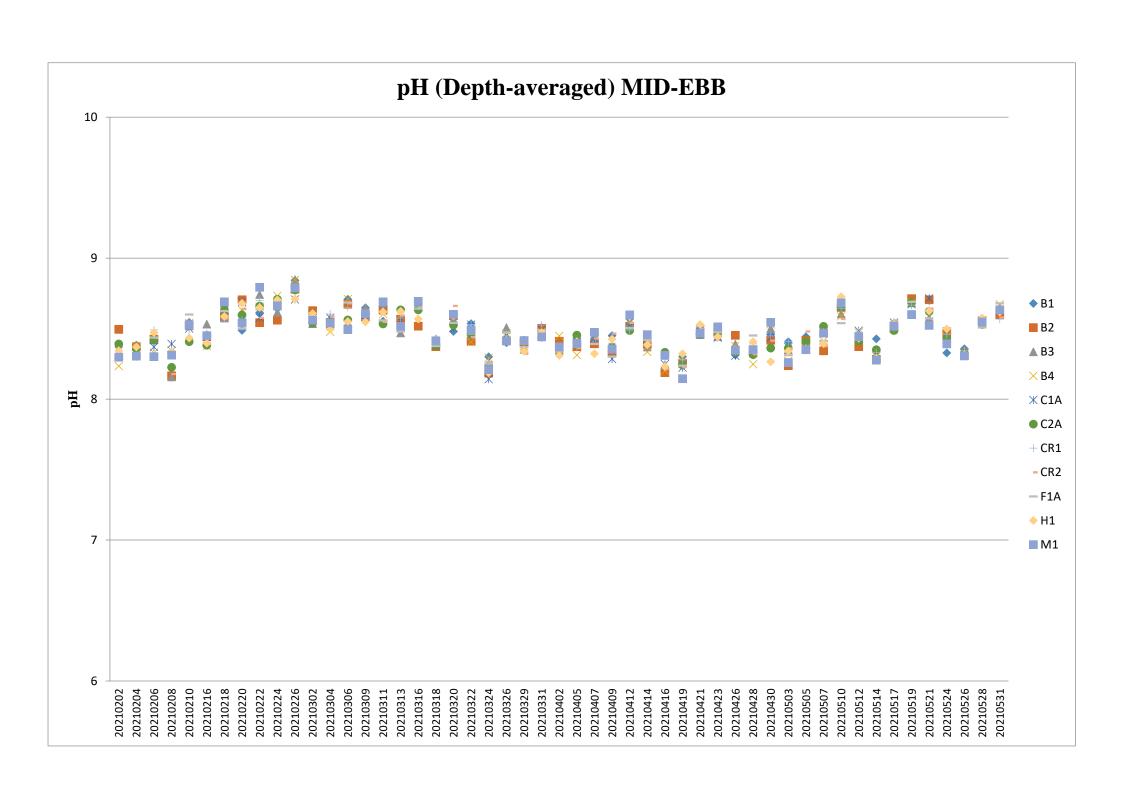


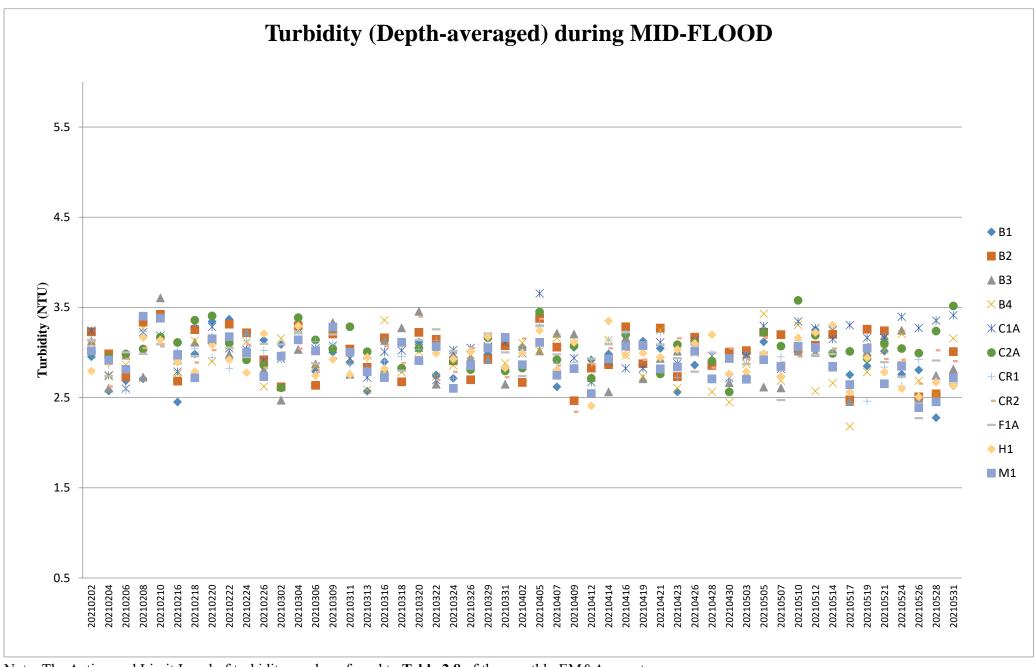


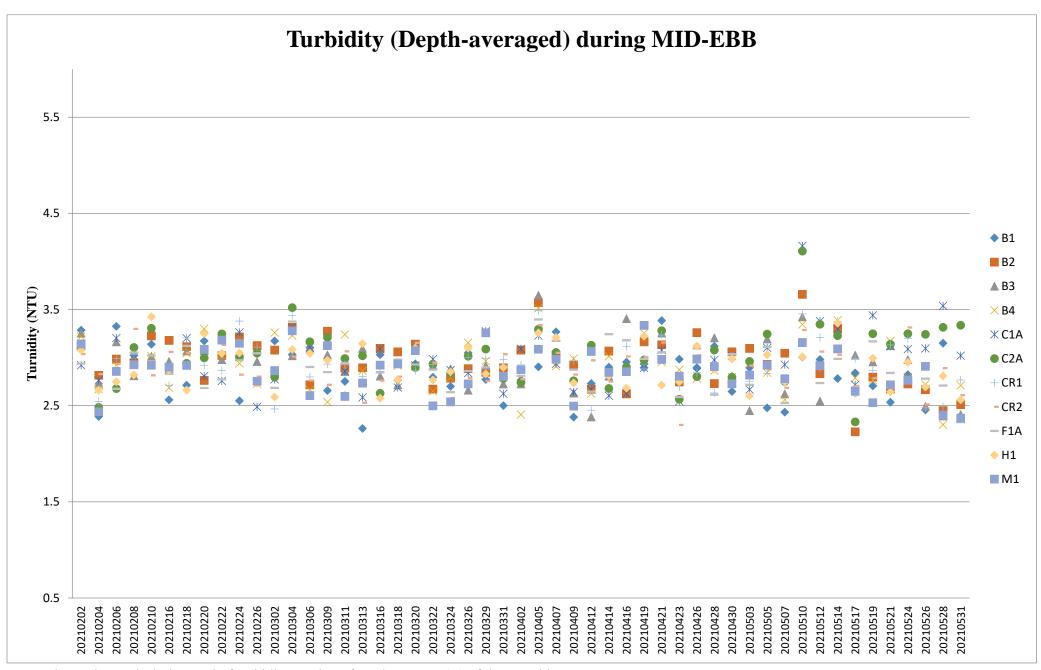


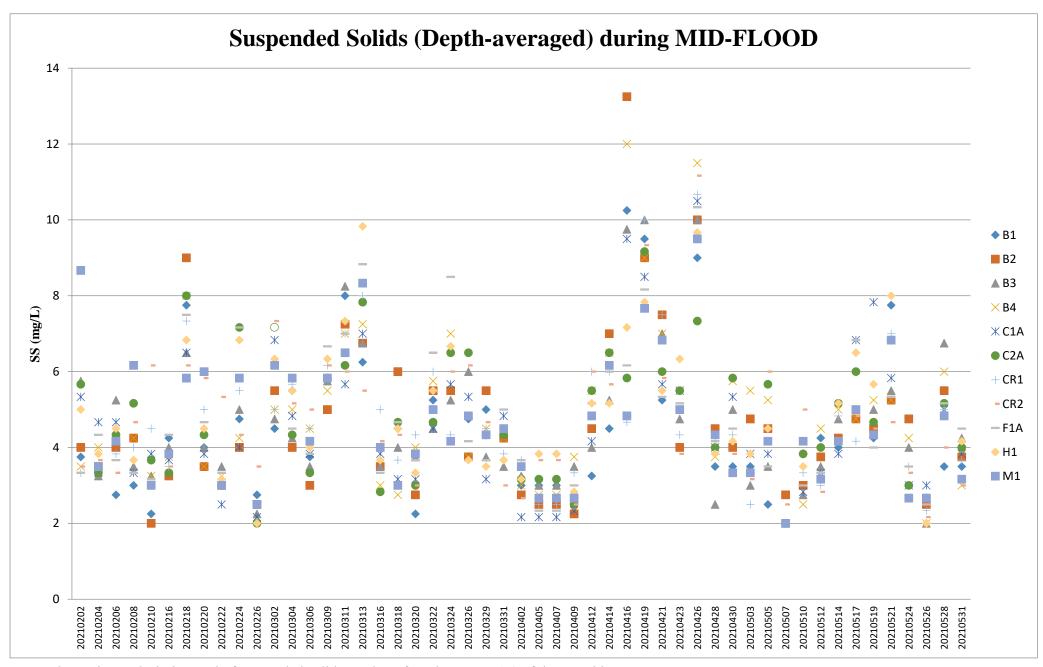


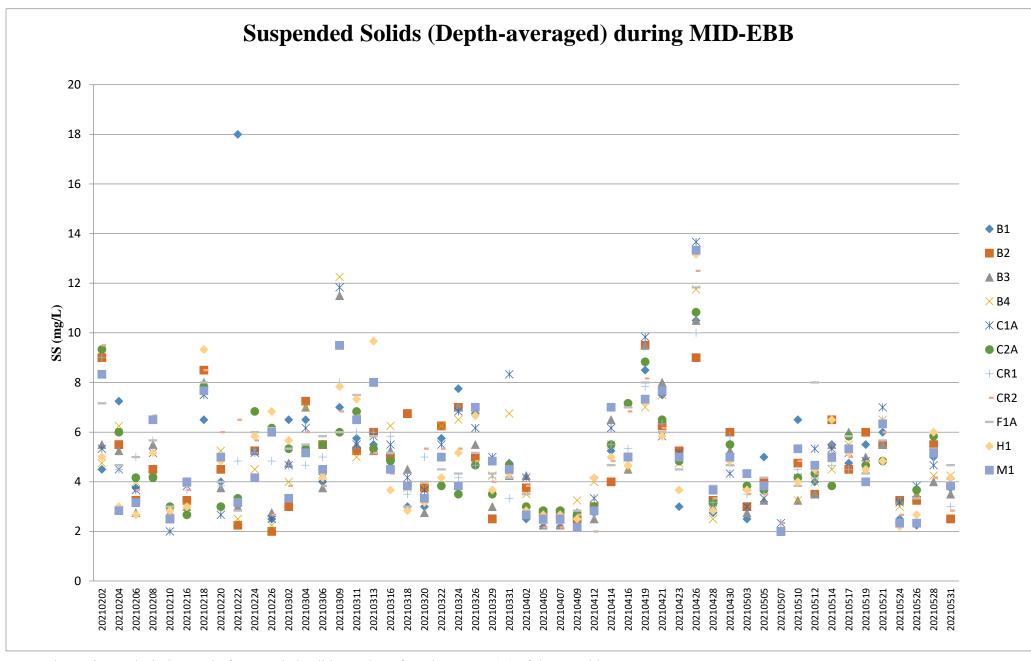


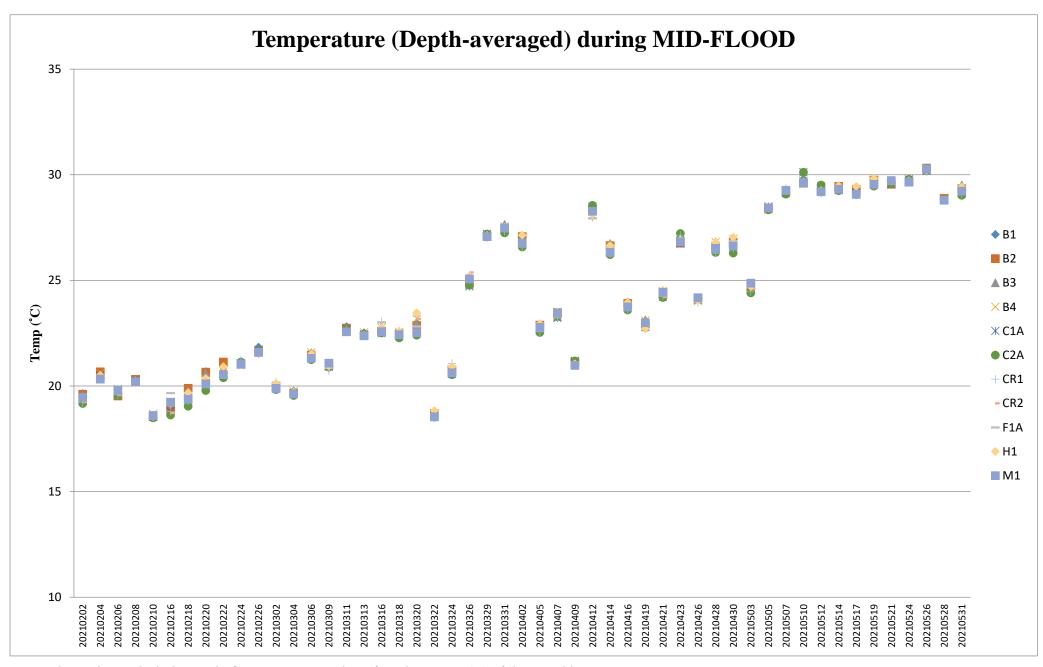




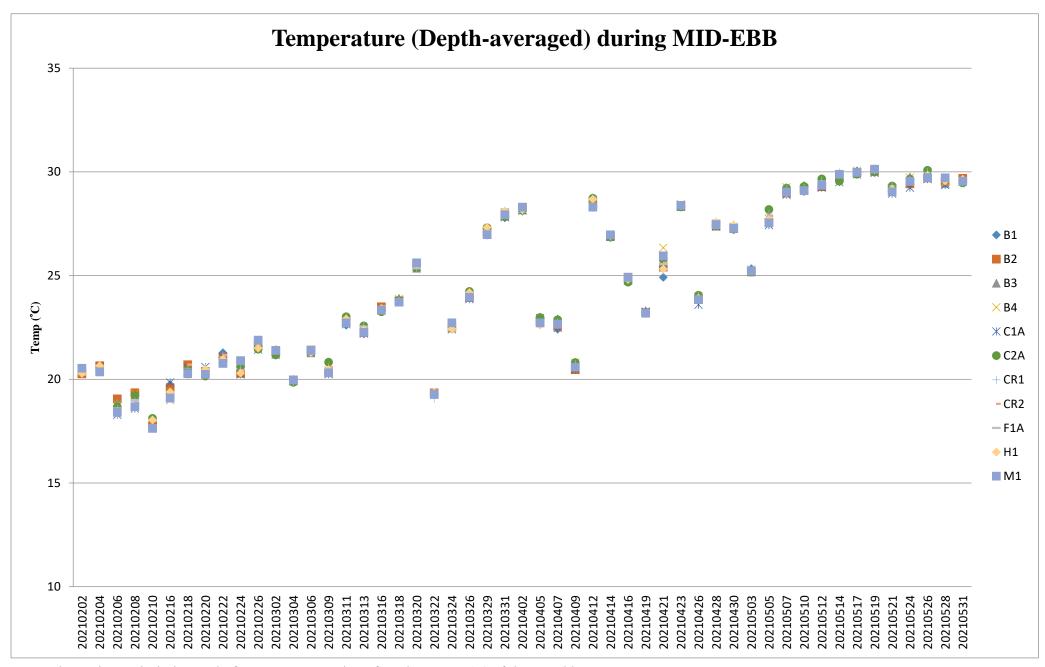








Note: The Action and Limit Level of temperature can be referred to Table 2.8 of the monthly EM&A report.



Note: The Action and Limit Level of temperature can be referred to Table 2.8 of the monthly EM&A report.

Contract No. EP/SP/66 Integrated Waste Mana	5/12 agement Facilities, Phase 1	Keppel Seghers – Zhen Hua Joint Venture
Appendix E	HOKLAS Laboratory Cert	tificate



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諮詢委員會建議而接受的

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

This laboratory meets the requirements of ISO / IEC 17025 : 2005 - General requirements for the competence 此實驗所符合ISO / IEC 17025: 2005 - 《测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 獲認可進行截於香港實驗所認可計劃(認可實驗所名冊)內下述測試類別中的指定 listed in the HOKLAS Directory of Accredited Laboratories within the test category of 测试或校正工作

### **Environmental Testing** 環境測試

This laboratory is accredited in accordance with the recognised international Standard ISO / IEC 17025 : 2005. 本實驗所乃根據公認的國際標準 ISO/IEC 17025: 2005 獲得認可。 This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory 這項認可資格深示在指定範疇所需的技術能力及實驗所質量管理體系的運作 quality management system (see joint IAF-ILAC-ISO Communiqué). (見國際認可論權、國際實驗所認可含作組織及國際標準化組織的關合公報)。

The common seal of the Hong Kong Accreditation Service is affixed hereto by the authority of the HKAS Executive 香港認可處根據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 : HONDAS 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



**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逃測試類別中的指定測試或校正工作

### 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). 並項 ISO/IEC 17025:2005 的認可資格證明此實驗所具傳播定範疇內所須的技術能力並 實施一套實驗所質量管理體系(見圖際語可論理・國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-wan, 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: HOKLAS 241

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

This certificate is issued subject to the terms and conditions laid down by HKAS. 本證書按照香港間可處訂立的條款及條件發出

L 001195

Contract No. EP/SP/66. Integrated Waste Mana	gement Facilities, Phase 1	Keppel Seghers – Zhen Hua Joint Venture
Appendix F	Water Quality Equipment	Calibration Certificate



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

Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email: info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

# REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No.

BA040049

Date of Issue

16 April 2021

Page No.

1 of 2

## PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited Unit C, 11/F, Ford Glory Plaza 37-39 Wing Hong Street Cheung Sha Wan, Kowloon, Hong Kong

Attn: Mr. Nelson TSUI

### PART B - DESCRIPTION

Name of Equipment

Multi Water Quality Checker U-53

Manufacturer

Serial Number

Date of Received

L20550GA

Date of Calibration

Apr 08, 2021 Apr 15, 2021

Date of Next Calibration(a)

Jul 14, 2021

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

**Parameter** 

Reference Method

pH at 25°C

APHA 21e 4500-H+ B

Dissolved Oxygen

APHA 21e 4500-O G

Salinity

APHA 21e 2520 B

**Turbidity** Temperature APHA 21e 2130 B Section 6 of international Accreditation New Zealand Technical

Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

## PART D - CALIBRATION RESULTS(b,c)

## (1) pH at 25°C

Target (pH unit)	Displayed Reading(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	4.04	0.04	Satisfactory
7.42	7.42	0.00	Satisfactory
10.01	9.85	-0.16	Satisfactory

Tolerance of pH should be less than ±0.20 (pH unit)

## (2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
13	13.07	0.07	Satisfactory
24.5	24.70	0.20	Satisfactory
33.5	33.09	-0.41	Satisfactory

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

~ CONTINUED ON NEXT PAGE ~

### 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.

LEE Chun-ning, Desmond Senior Chemist



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

Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email: info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

# REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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: BA040049

Date of Issue

16 April 2021

Page No.

2 of 2

# PART D - CALIBRATION RESULTS (Cont'd)

# (3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.21	0.00	-0.21	Satisfactory
1.90	2.06	0.16	Satisfactory
5.50	5.69	0.19	Satisfactory
7.98	8.11	0.13	Satisfactory

Tolerance limit of dissolved oxygen should be less than ±0.50 (mg/L)

# (4) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.78	-2.20	Satisfactory
20	20.34	1.70	Satisfactory
30	31.16	3.87	Satisfactory

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

# (5) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.00		Satisfactory
10	9.25	-7.5	Satisfactory
20	19.4	-3.0	Satisfactory
100	105	5.0	Satisfactory
800	860	7.5	Satisfactory

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

~ END OF REPORT ~

[&]quot;Displayed Reading" presents the figures 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.



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

Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email: info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

# REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No.

BA040094

Date of Issue

27 April 2021

Page No.

1 of 2

#### PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited Unit C, 11/F, Ford Glory Plaza 37-39 Wing Hong Street Cheung Sha Wan, Kowloon, Hong Kong

Attn: Mr. Nelson TSUI

#### PART B - DESCRIPTION

Name of Equipment

Multi Water Quality Checker U-53

Manufacturer

Horiba

Serial Number

UHB5F2BB

Date of Received

Apr 20, 2021

Date of Calibration

Apr 26, 2021

Date of Next Calibration(a)

Jul 25, 2021

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

**Parameter** 

Reference Method

pH at 25°C

APHA 21e 4500-H+ B APHA 21e 4500-O G

Dissolved Oxygen

APHA 21e 2520 B

Salinity Turbidity

APHA 21e 2130 B

Temperature

Section 6 of international Accreditation New Zealand Technical

Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Oxidation-Reduction Potential

APHA 22e 2580 B

#### PART D - CALIBRATION RESULTS(b,c)

# (1) pH at 25°C

Toront (mII unit)	Displayed Reading(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
Target (pH unit)	Displayed Reading (pri Offic)	Tolerance (pri Onit)	Resuits
4.00	4.17	0.17	Satisfactory
7.42	7.27	-0.15	Satisfactory
10.01	9.83	-0.18	Satisfactory

Tolerance of pH should be less than ±0.20 (pH unit)

# (2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
12	12.55	0.55	Satisfactory
23	24.12	1.12	Satisfactory
41	40.24	-0.76	Satisfactory

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

~ CONTINUED ON NEXT PAGE ~

# 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.

> LEE Chun-ning, Desmond Senior Chemist



Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email: info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

# REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No.

BA040094

Date of Issue

27 April 2021

Page No.

2 of 2

## PART D - CALIBRATION RESULTS (Cont'd)

## (3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
1.03	0.60	-0.43	Satisfactory
4.22	3.80	-0.42	Satisfactory
5.72	5.37	-0.35	Satisfactory
7.08	6.66	-0.42	Satisfactory

Tolerance limit of dissolved oxygen should be less than ±0.50 (mg/L)

#### (4) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.53	-4.70	Satisfactory
20	18.60	-7.00	Satisfactory
30	32.04	6.80	Satisfactory

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

# (5) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.81		Satisfactory
10	9.81	-1.9	Satisfactory
20	21.20	6.0	Satisfactory
100	96.8	-3.2	Satisfactory
800	750	-6.3	Satisfactory

Tolerance limit of turbidity should be less than ±10.0 (%)

# (6) Oxidation-Reduction Potential

Expected Reading (mV)	Displayed Reading (mV)	Tolerance (mV) ^(g)	Results
229	229	0	Satisfactory

Tolerance limit of Oxidation-Reduction Potential should be less than  $\pm 10 \ (mV)$ 

~ END OF REPORT ~

[&]quot;Displayed Reading" presents the figures shown on item under calibration/ checking regardless of equipment precision or significant figures.

⁽b) 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.

Tel: (852) 3956 8717; Fax: (852) 3956 3928

# REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No.

BA030041

Date of Issue

19 March 2021

Page No.

1 of 2

#### PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited Unit C, 11/F, Ford Glory Plaza 37-39 Wing Hong Street Cheung Sha Wan, Kowloon, Hong Kong Attn: Mr. Nelson TSUI

#### PART B - DESCRIPTION

Name of Equipment

YSI ProDSS Multi Parameters

Manufacturer

YSI (a xylem brand)

Serial Number

15M101091

Date of Received

Mar 04, 2021

Date of Calibration

Mar 19, 2021

Date of Next Calibration(a)

Jun 18, 2021

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

**Parameter** 

Reference Method

pH at 25°C

APHA 21e 4500-H⁺ B APHA 21e 4500-O G

Dissolved Oxygen

APHA 21e 2520 B

Salinity Turbidity

APHA 21e 2130 B

Temperature

Section 6 of international Accreditation New Zealand Technical

Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

# PART D - CALIBRATION RESULTS(b,c)

# (1) pH at 25°C

Target (pH unit)	Displayed Reading(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	3.85	-0.15	Satisfactory
7.42	7.38	-0.04	Satisfactory
10.01	10.02	+0.01	Satisfactory

Tolerance of pH should be less than ±0.20 (pH unit)

#### (2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
13	12.2	-0.8	Satisfactory
25	24.2	-0.8	Satisfactory
38	37.7	-0.3	Satisfactory

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

#### ~ CONTINUED ON NEXT PAGE ~

## Remark(s): -

- (a) The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.
- (b) The results relate only to the calibrated equipment as received
- (c) 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.
- (e) 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.

LEE Chun-ning, Desmond Senior Chemist



Tel: (852) 3956 8717; Fax: (852) 3956 3928

# REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No.

: BA030041

Date of Issue

19 March 2021

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# PART D - CALIBRATION RESULTS (Cont'd)

## (3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
1.50	1.07	-0.43	Satisfactory
4.66	4.46	-0.20	Satisfactory
7.04	6.91	-0.13	Satisfactory
8.48	8.24	-0.24	Satisfactory

Tolerance limit of dissolved oxygen should be less than ±0.50 (mg/L)

#### (4) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.45	-5.50	Satisfactory
20	20.11	0.55	Satisfactory
30	30.67	2.23	Satisfactory

Tolerance limit of salinity should be less than ±10.0 (%)

# (5) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.00	8 <del>44</del>	Satisfactory
10	10.19	1.90	Satisfactory
20	19.50	-2.50	Satisfactory
100	101.62	1.62	Satisfactory
800	836.58	4.57	Satisfactory

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

~ END OF REPORT ~

Remark(s): -

[&]quot;Displayed Reading" presents the figures 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.

Contract No. EP/SP/66. Integrated Waste Mana	/12 gement Facilities, Phase 1	Keppel Seghers – Zhen Hua Joint Ventur
Appendix G	Event / Action Plan for Wat	er 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)

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	tion	
	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)

Contract No. EP/SP/66. Integrated Waste Mana	/12 gement Facilities, Phase 1	Keppel Seghers – Zhen Hua Joint Venture
Appendix H	Noise Monitoring Equipmer Certificate	nt Calibration



#### FACTORY CALIBRATION DATA OF THE SVAN 971 No. 96063

with preamplifier SVANTEK type SV18 No. 97278 and with microphone ACO type 7052E No. 78092

#### 1. CALIBRATION (acoustical)

LEVEL METER function; Range: Low; Reference frequency: 1000Hz; Sound Pressure Level: 114.00 dB.

Characteristic	Correct value [dB]	Indication [dB]	Error [dB]
Z	114.00	114.05	0.05
Α	114.00	114.05	0.05
C	114.00	114.05	0.05

Calibration measured with the microphone ACO type 7052E No. 78092. Calibration factor: 0.52 dB.

#### 2. LINEARITY TEST' (electrical)

LEVEL METER function; Range: Low; Characteristic: A; f sin= 31.5 Hz

Nominal result LEQ [dB]	24.0	25.0	26.0	28.0	30.0	40.0	60.0	83.0
Error [dB]	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LEVEL METER function; Range: Low; Characteristic: A; f sin= 1000 Hz

Nominal result LEQ [dB]	24.0	25.0	26.0	28.0	30,0	40.0	60.0	80.0	100.0	123.0
Error [dB]	0.1	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	0.0	-0.0

LEVEL METER function; Range: Low; Characteristic: A; f sin= 8000 Hz

Nominal result LEQ [dB]	24.0	25.0	26.0	28.0	30.0	40.0	60.0	80.0	100.0	122.0
Error [dB]	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0

LEVEL METER function; Range: High; Characteristic: A; f sin= 31.5 Hz

Nominal result LEQ [dB]	34.0	35.0	36.0	38.0	40.0	60.0	80.0	97.0
Error [dB]	0.1	0.1	0.0	0.0	0.0	0.0	-0.0	0.0

LEVEL METER function; Range: High; Characteristic: A; f sin= 1000 Hz

Nominal result LEQ [dB]	34.0	35.0	36.0	38.0	40.0	60.0	80.0	100.0	120.0	137.0
Error [dB]	0.1	0.1	0.1	0.0	0.0	-0.0	0.0	0.0	-0.0	0.0

LEVEL METER function; Range: High; Characteristic: A; f sin= 8000 Hz

Nominal result LEQ [dB]	34.0	35.0	36.0	38.0	40.0	60.0	80.0	100.0	120.0	136.0
Error [dB]	0.0	0.0	-0.0	0.0	-0.0	-0.0	0.0	-0.0	-0.0	-0.0

1/3 OCTAVE (IkHz); Range: Low; f sin= 1000 Hz

Nominal result [dB]	25.0	30.0	40.0	60.0	80.0	100.0	120.0	123.0
Error [dB]	0.1	0.0	-0.0	-0.0	-0.0	0.0	-0.0	-0.0

#### 3. TONE BURST RESPONSE'

LEVEL METER function; Characteristic: A; f sin= 4000 Hz; Burst duration: 2s

Range: Low; Steady level nominal result = 120dB

Result	Detector	Duration [ms]	1000	500	200	100	50	20	10	5	2	1	0.5	0.25
Fast	Indication [dB]	119.9	119.8	119.0	117.3	115.1	111.6	108.8	105.8	101.9	98.9	95.8	92.8	
MAX	rast	Error [dB]	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.1	0.0	-0.0	-0.1	-0.1	-0.1
MAA	Slow	Indication [dB]	117.9	115.8	112.4	109.6	106.7	102.8	99.8	96.8	92.8	-	75.0	
	Slow	Error [dB]	-0.1	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1			:
SEL	A TOWN	Indication [dB]	119.9	116.9	112.9	109.9	106.9	102.9	99.9	96.9	92.9	89.9	86.8	83.8
SEL	JEL -	Error [dB]	0.0	-0.0	0.0	0.0	-0.0	0.0	-0.0	-0.0	-0.0	-0.1	-0.1	-0.1

Range: Low; Steady level nominal result = 60dB

Result	Detector	Duration [ms]	1000	500	200	100	50	20	10	5	2	1	0.5
Fast	Indication [dB]	59.9	59.9	59.0	57.3	55.1	51.6	48.8	45.9	41.9	38.9	35.9	
MAX	rast	Error [dB]	0.0	0.0	0.0	0.0	-0.0	0.0	-0.0	0.0	-0.0	-0.0	-0.1
Slow	Indication [dB]	57.9	55.8	52.4	49.6	46.7	42.8	39.8	36.8	32.8	-0.0	-0,1	
19	Slow	Error [dB]	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1		
SEL	I Town	Indication [dB]	59.9	56.9	52.9	49.9	46.9	42.9	39.9	36.9	32.9	29.9	26.9
SEL	SEL -	Error [dB]	0.0	-0.0	0.0	0.0	-0.0	0.0	0.0	-0.0	0.0	0.0	-0.0

Range: Low; Steady level nominal result = 35dB

Result	Detector	Duration [ms]	1000	500	200
MAX Fast	Foot	Indication [dB]	34.9	34.8	33.9
	Error [dB]	-0.0	-0.0	0.0	
	Slow	Indication [dB]	32.9	30.8	27.4
	Slow	Error [dB]	-0.1	-0.0	-0.1
SEL	7	Indication [dB]	34.9	31.9	28.0
SEL		Error [dB]	-0.0	-0.0	0.0

Range: High; Steady level nominal result = 134dB

Result	Detector	Duration [ms]	1000	500	200	100	50	20	10	5	2	1	0.5	0.25
Fast	Indication [dB]	133.9	133.9	133.0	131.3	129.1	125.6	122.8	119.9	115.9	112.9	109.9	106.8	
MAX	rast	Error [dB]	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	0.0	-0.0	-0.0	-0.1	-0.1
Slow	Indication [dB]	131.9	129.8	126.4	123.6	120.7	116.8	113.8	110.8	106.8	- 0.0		-0.1	
	Error [dB]	-0.1	-0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1		24		
SEL		Indication [dB]	133.9	130.9	127.0	123.9	120.9	117.0	113.9	110.9	106.9	103.9	100.8	97.8
SEL	SEL -	Error [dB]	0.0	-0.0	0.0	0.0	-0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.1	-0.1

Range: High; Steady level nominal result = 54dB

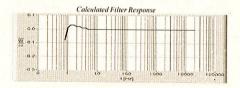
Result	Detector	Duration [ms]	1000	500	200	100	50
	Fast	Indication [dB]	53.9	53.9	53.0	51.4	49.1
MAY	MAX Fast	Error [dB]	-0.0	0.0	0.0	0.0	-0.0
	Slow	Indication [dB]	51.9	49.8	46.4	43.6	40.8
	Slow	Error [dB]	-0.1	-0.0	-0.1	-0.1	0.0
SEL		Indication [dB]	53.9	50.9	47.0	44.0	41.0
JEL		Error [dB]	-0.0	-0.0	0.0	0.0	0.0

Range: High; Steady level nominal result = 45dB

Result	Detector	Duration [ms]	1000	500	200
	Fast	Indication [dB]	45.0	44.9	44.0
MAX	rast	Error [dB]	0.0	0.0	0.0
Slow	Claus	Indication [dB]	42.9	40.8	37.4
	SIOW	Error [dB]	-0.1	-0.0	-0.1
SEL		Indication [dB]	45.0	41.9	38.0
SEL		Error [dB]	0.0	-0.0	0.0

#### 4. FREQUENCY RESPONSE' (electrical)

LEVEL METER function; Characteristic: Z; Range: Low; Input signal =120 dB;



Measured Filter Response with Preamplifier SV18 (f-frequency, L-level)

f [Hz]	L [dB]	f [Hz]	L [dB]	f [Hz]	L [dB]
10	-0.1	63	0.0	4000	0.0
12.5	0.0	125	0.0	8000	0.0
16	0.0	250	0.0	16000	0.0
20	0.0	500	0.0	20000	0.0
25	0.0	1000	0.0		
31.5	0.0	2000	0.0		1

All frequencies are nominal center values for the 1/3 octave bands

## 5. INTERNAL NOISE LEVEL (electrical - compensated)

LEVEL METER function; Range: Low; (Back-light - off); Calibration factor: 0dB

Characteristic	Z	A	С
Level [dB]	≤20	≤12	≤12

^{*} measured with preamplifier SVANTEK type SV18 No. 97278.

# 6. INTERNAL NOISE LEVEL (acoustical - compensated)

LEVEL METER function; Characteristic: A; (Backlight - off)

D	deteristic. A, (Backi	gm - on)
Range	Low	High
Indication [dB]	<15	19.8

Noise measured in special chamber, with reference microphone G.R.A.S type 40AN No. 73421

## ENVIRONMENTAL CONDITIONS

Temperature	Relative humidity	Ambient pressure
27 °C	55%	
21.0	3376	999 hPa

#### TEST EQUIPMENT

Item	Manufacturer	Model	Serial no.	
	SVANTEK	SVAN 401	100	Description
	SVANTEK	SVAN 912A	10.10	Signal generator
	RIGOL		PA COLUMN	Sound & Vibration Analyser
	SVANTEK	SV33B	00151	- ighta marameter
	SVANTEK	ST02		Acoustic calibrator Microphone equivalent electrical impedance (18pF)

# CONFORMITY & TEST DECLARATION

- 1. Herewith Syantek company declares that this instrument has been calibrated and tested in compliance with the internal ISO9001 procedures and meets all specification given in the Manual(s) or respectively surpass them.
- 2. The acoustic calibration was performed using the Sound Calibrator and is traceable to the GUM (Central Office of Measures) reference standard sound level calibrator type 4231 No 2292773.
- 3. The information appearing on this sheet has been compiled specifically for this instrument. This form is produced with advanced equipment & procedures which permit comprehensive quality assurance verification of all data supplied herein.

4. This calibration sheet shall not be reproduced except in full, without written permission of the SVANTEK Ltd.

Calibration specialist: Krzysztof Kubel

Test date: 2020-07-02

SVANTEK

1/2" Prepolarized Condenser Microphone

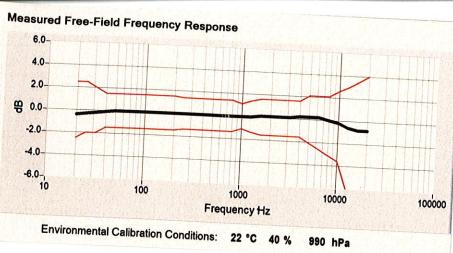
# Calibration Chart

Type: **7052E** Serial No: **78092** 

Measured sensitivity: 32.74 mV/Pa -29.70 dB re. 1V/Pa

Manufacturer: ACO PACIFIC

Date: 2020-06-04



# Certificate of Calibration

for

Description:

Sound Level Meter

Manufacturer:

NTi Audio

Type No.:

XL2 (Serial No.: A2A-13663-E0)

Microphone:

ACO 7052 (Serial No.: 73912)

Preamplifier:

NTi Audio MA220 (Serial No.: 5735)

Submitted by:

Customer:

Acuity Sustainability Consulting Limited

Address:

Unit C, 11/F, Ford Glory Plaza, No. 37-39 Wing Hong Street,

Cheung Sha Wan, Kowloon, Hong Kong

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

✓ Within

☐ Outside

the allowable tolerance.

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

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

Date of receipt: 08 September 2020

Date of calibration: 09 September 2020

Calibrated by:

Calibration Technician

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Date of issue: 09 September 2020

S (A+A) *L 2

Page 1 of 4

Certificate No.: APJ20-104-CC001



#### 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:

23.8 °C

Air Pressure: Relative Humidity: 1008 hPa

3. Calibration Equipment:

Type

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

Sett	Setting of Unit-under-test (UUT)			Appl	ied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. V	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	Fast	94	1000	94.0	±0.4

#### Linearity

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
				94		94.0	Ref
30-130	dBA	SPL	Fast	104	1000	104.0	±0.3
				114		114.0	±0.3

#### Time Weighting

Setting of Unit-under-test (UUT)				Appl	ied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Wo	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	Fast	94	1000	94.0	Ref
30-130	UDA	SIL	Slow	94		94.0	±0.3

Certificate No.: APJ20-104-CC001

Page 2 of 4



# Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司



#### Frequency Response

#### Linear Response

Sett	ing of Unit	-under-t	est (UUT)	Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. We	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	94.3	±2.0
					63	94.3	±1.5
					125	94.3	±1.5
					250	94.2	±1.4
30-130	dB SPL	SPL	Fast	94	500	94.1	±1.4
					1000	94.0	Ref
					2000	93.8	±1.6
					4000	93.6	±1.6
					8000	93.4	+2.1; -3.1

#### A-weighting

Sett	ing of Ur	it-under-t	est (UUT)	Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. V	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	54.8	-39.4 ±2.0
					63	68.0	-26.2 ±1.5
					125	78.1	-16.1 ±1.5
					250	85.5	-8.6 ±1.4
30-130	dBA	SPL	Fast	94	500	90.8	-3.2 ±1.4
					1000	94.0	Ref
					2000	95.0	+1.2 ±1.6
					4000	94.6	+1.0 ±1.6
					8000	92.3	-1.1 +2.1; -3.1

#### C-weighting

Sett	ing of U	Jnit-under-t	est (UUT)	Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	91.2	-3.0 ±2.0
			2		63	93.4	-0.8 ±1.5
	dBC SP		Fast	94	125	94.1	-0.2 ±1.5
		BC SPL			250	94.1	-0.0 ±1.4
30-130					500	94.1	-0.0 ±1.4
					1000	94.0	Ref
					2000	93.6	-0.2 ±1.6
					4000	92.8	-0.8 ±1.6
					8000	90.4	-3.0 +2.1; -3.1



Page 3 of 4

Certificate No.: APJ20-104-CC001



#### 5. Calibration Results Applied

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

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.05
	63 Hz	± 0.05
	125 Hz	± 0.05
	250 Hz	± 0.05
	500 Hz	± 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.05
	8000 Hz	± 0.10
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

#### Note:

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



# Certificate of Calibration

for

Description:

Sound Level Meter

Manufacturer:

NTi Audic

Type No.:

XL2 (Secial No.: Az.1-13548-E0)

Microphone:

ACO 7352 (Serial No.:73780)

Preamplifier:

NT. Audio M2211 MA220 (Serial No.:5235)

Sul mitted by:

Customer:

Acu ty Sustainability Consulting Limited

Address:

Unit C, 11/F., Ford Glory Plaza, No. 37-39 Wing Hong Street,

Cheung Sha Wan, Kowloon

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

Cal brain: Technici in

**✓** Within

☐ Outside

the allowable tolerance.

The test equipmen used for colloration are traceable to National Standards via:

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

Date of receipt: 10 December 2020

Date of calibration: 12 December 2020

Celibrated by:

Certified by:

Mr. Ng Yan Wa Aboratory Manager

Date of issue: 12 December 2020

Certificate No.: \(\alpha PJ\)20-1/4 CC001

Page 1 of 4

# Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

# 1. Calibration Precaution:

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

# 2. Calibration Conditions:

Air Temperature:

23.7°**C** 

Air Pressure:

1006 **hPa** 

Relative Humidity:

61.8 %

# 3. Calibration Equipment:

Type

Serial No.

Calibration Report Number

Traceal le to

**Multifunction Calibrator** 

B&K 42.16 2288467

AV200041

HOKLA 3

# 4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Set	Setting of Unit-under-test (UUT)			ied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Tirae Weighting	Level, 1B	Frequency, Hz	dB	Specification, dB
30-130	dBA SPL	Fast	94	1000	94.0	±0.4

# Linearity

Sett	Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Le el 1B	Frequency, Hz	dB	Specification, dB
				94		94.0	Ref
30-130	dBA	SPL	Fast	104	1000	104.0	±0.3
				114		114.0	±0.3

# Time Weighting

Setti	Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, d's	Freq. V	Weighting	C.me Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	Fast	94	1000	94.0	Ref
30-130	UDA	SPL	Slow	94	1000	94.0	±0.3

Certificate No.: APJ20-1,4-CC001

Page 2 of 4

Room 422, Leader In Jur (rial Centre, 57-59 Au Pui Wan Street , Fo Tan, Shatin, N.T., Hong Kong Tel: (852) 2668 3423 Fax: (852) 2668 6946

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

E-mail: inquiry@aa-lab.com



# Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

Frequency Response

# Linear Response

Sett	ing of Unit	t-under-t	est (UUT)	Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. We	eighting	Time Weighting	Level, dP	Frequency, Hz	dB	Specification, dB
					31.5	94.1	±2.0
					63	94.1	±1.5
					125	94.1	±1.5
					250	94.1	+1.4
30-130	dB	SPL	Fast	94	J00	94.1	±1.4
					1000	94.0	Ref
					2000	93.8	±1.6
					4000	93.4	±1/3
					8000	92.7	+2/1;-3.1

# A-weighting

Sett	ing of Unit-under-t	est (UU1)	Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				31.5	54.7	-39.4 ±2.0
				63	68.0	-26.2 ±1.5
				125	75.0	-16.1 ±1.5
				250	85.4	-8.6 ±1.4
30-130	d'3A SPL	Fast	94	500	90.8	-3.2 ±1.4
				1000	94.0	Ref
	/ /			2000	95.0	+1.2 ±1.6
				4000	94.4	+1.0 ±1.6
				8000	91.6	-1.1+2.1; -3.1

# C-weighting

	Setting of Ur	nit-under-t	est (UUT)	Ar plied value		UUT Reading,	IEC 61672 Class 1
Rang	e, dB   Freq. V	Freq. Weighting   Time V		Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	91.1	-3.0 ±2.0
					63	93.3	-0.8 ±1.5
					125	93.9	-0.2 ±1.5
					250	94.1	$-0.0 \pm 1.4$
30	130 dBC	SPL	Tast	94	500	94.1	$-0.0\pm1.4$
V					1000	94.0	Ref
					2000	93.7	-0.2 ±1.6
			)/		4000	92.6	-0.8 ±1.6
			1/		8000	89.7	-3.0 +2.1: -3.1

Certificate No.: 1PJ20-1,4-CC001



Page 3 of 4

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

E-mail: inquiry@aa-lab.com



# 5. Calibration Results Applied

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

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.10
	63 Hz	± 0.15
	125 Hz	0.10
	250 Hz	+ 5.10
	500 Hz	± 0.10
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.05
	8000 Hz	± 0.10
104 dB	1000 H:	± 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 colibration. (A+A)*L shall not be liable for any loss or damage resulting from the use of the equipment.



Certificate No.: APJ20-1+4-CC001

Page 4 of 4



# 綜 合 試 驗 有 限 公 司 SOILS & MATERIALS ENGINEERING CO., LTD.

香港新界葵涌永基路22-24號椰林閣集團大廈全幢 The Whole Block of YLK Group Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong. Tel: (852) 2873 6860 Fax: (852) 2555 7533 E-mail: smec@cigismec.com Website: www.cigismec.com



# CERTIFICATE OF CALIBRATION

Certificate No.:

20CA0803 01

Page:

of

1

2

Item tested

Description: Manufacturer:

Acoustical Calibrator (Class 1) Pulsar Instruments Ltd.

Type/Model No.:

105 63705

Serial/Equipment No.: Adaptors used:

Item submitted by

Curstomer:

Acuity Sustainability Consulting Limited.

Address of Customer:

Request No.:

Date of receipt:

03-Aug-2020

Date of test:

06-Aug-2020

#### Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2341427	11-May-2021	SCL
Preamplifier	B&K 2673	2743150	03-Jun-2021	CEPREI
Measuring amplifier	B&K 2610	2346941	03-Jun-2021	CEPREI
Signal generator	DS 360	33873	19-May-2021	CEPREI
Digital multi-meter	34401A	US36087050	19-May-2021	CEPREI
Audio analyzer	8903B	GB41300350	18-May-2021	CEPREI
Universal counter	53132A	MY40003662	18-May-2021	CEPREI

# **Ambient conditions**

Temperature:

 $22 \pm 1$  °C

Relative humidity: Air pressure:

55 ± 10 % 1005 ± 5 hPa

# **Test specifications**

- 1, The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.
- 2. The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
- 3, The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

#### **Test results**

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942: 1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.

Details of the performed measurements are presented on page 2 of this certificate.

Feng J nqi

Approved Signatory:

07-Aug-2020

Company Chop:

Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

© Soils & Materials Engineering Co., Ltd.

Form No.CARP156-1/Issue 1/Rev.D/01/03/2007



# 綜合試驗有限公司 SOILS&MATERIALS ENGINEERING CO., LTD.

香港新界葵涌永基路22-24號 椰林 閣集團大廈全幢
The Whole Block of YLK Group Building, Nos. 22-24 Wing Kei Road, Kwai Chung, New Territories, Hong Kong.
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# **CERTIFICATE OF CALIBRATION**

(Continuation Page)

Certificate No.:

20CA0803 01

Page:

of

2

2

#### 1. Measured Sound Pressure Level

The output Sound Pressure Level in the calibrator head was measured at the setting and frequency shown using a calibrated laboratory standard microphone and insert voltage technique. The results are given in below with the estimated uncertainties.

(Output level in dB re 20 µPa)

Frequency	Output Sound Pressure	Measured Output	Estimated Expanded
Shown	Level Setting	Sound Pressure Level	Uncertainty
Hz	dB	dB	dB
1000	94.00	93.78	0.10

#### 2, Sound Pressure Level Stability - Short Term Fluctuations

The Short Term Fluctuations was determined by measuring the maximum and minimum of the fast weighted DC output of the B&K 2610 measuring amplifier over a 20 second time interval as required in the standard. The Short Term Fluctuation was found to be:

At 1000 Hz

STF = 0.027 dB

Estimated expanded uncertainty

0.005 dB

#### 3, Actual Output Frequency

The determination of actual output frequency was made using a B&K 4180 microphone together with a B&K 2673 preamplifier connected to a B&K 2610 measuring amplifier. The AC output of the B&K 2610 was taken to an universal counter which was used to determine the frequency averaged over 20 second of operation as required by the standard. The actual output frequency at 1 KHz was:

At 1000 Hz

Actual Frequency = 1000.3 Hz

Estimated expanded uncertainty

0.1 Hz

Coverage factor k = 2.2

#### 4, Total Noise and Distortion

For the Total Noise and Distortion measurement, the unfiltered AC output of the B&K 2610 measuring amplifier was connected to an Agilent Type 8903 B distortion analyser. The TND result at 1 KHz was:

At 1000 Hz

TND = 0.6 %

Estimated expanded uncertainty

0.7 %

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

Calibrated by:

1 - 0000

Fung Chi Yik 06-Aug-2020 End

Checked by:

Date

Feng Junqi 07-Aug-2020

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

© Soils & Materials Engineering Co., Ltd.

Form No.CARP156-2/Issue 1/Rev.C/01/05/2005

Contract No. EP/SP/66 Integrated Waste Mana	gement Facilities, Phase 1	Keppel Seghers – Zhen Hua Joint Venture
Appendix I	Event / Action Plan for No	ise Exceedance

Frant	Actions to be taken by	Actions to be taken by	Actions to be taken by	Actions to be taken by
Event	Environmental Team as	Independent Environmental	Supervising Officer's	Contractor as
	immediate as practicable	Checker as immediate as	Representative as immediate	immediate as
		practicable	as practicable	practicable
Action Level being exceeded	to the IEC, SO and Contractor; 4. Discuss with the IEC and	<ol> <li>Review the investigation results 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 measures.</li> <li>(The above actions should be taken within 2 working days after the exceedance is identified).</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>In consolidation with the IEC, agree with the Contractor on the remedial measures to be</li> <li>implemented;         Supervise the implementation of remedial measures.         (The above actions should be taken within 2 working days after the exceedance is identified).</li> </ol>	<ol> <li>Submit noise mitigation proposals to IEC and SO;</li> <li>Implement noise mitigation proposals. (The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>
Limit Level being exceeded	<ol> <li>Inform IEC, SO, Contractor and</li> <li>EPD; Repeat measurements to confirm</li> <li>findings;</li> <li>Increase monitoring frequency; Identify source and investigate the</li> <li>cause of exceedance; Carry out analysis of Contractor's</li> <li>working procedures; Discuss with the IEC, Contractor</li> <li>and SO on remedial measures required; Assess effectiveness of</li> <li>Contractor's remedial actions and keep IEC, EPD and SO informed of the results; If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	<ol> <li>Discuss amongst SO, ET, and Contractor on the potential remedial actions;</li> <li>Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the SO accordingly; (The above actions should be taken within 2 working days after the exceedance is identified)</li> </ol>	In consolidation with the IEC, agree with the Contractor on the remedial measures to be     implemented;	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC and SO within 3 working days</li> <li>of notification; Implement the agreed</li> <li>proposals; Submit further proposal if</li> <li>problem still not under control; 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>

Contract No. EP/SP/66 Integrated Waste Mana	5/12 agement Facilities, Phase 1	Keppel Seghers – Zhen Hua Joint Venture
Appendix J	Noise Monitoring Data	

Location: Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 1 (M1 /

N_S1)

Monitoring date: 3, 10, 17, 24 & 31 May 2021 (Daytime)

3&4, 10&11, 17&18, 24&25, 31 May 2021 & 1 June 2021 (Evening &

Night time)

Parameter: L_{eq 30min} (Daytime), L_{eq 5min} (Evening & Night time)

Noise source other than construction activities from

Nil

the Project:

# Noise Monitoring Data:

Date	Start time		End time	Weather	$\begin{array}{c} L_{eq \; 30min}  dB(A)  / \\ L_{eq \; 5min}  dB(A) \end{array}$	Sound Level Meter Used	Calibrator Used
3 May 2021	16:02	-	16:32	Cloudy	57.5	XL2 (Serial No. A2A-13663-E0)	Pulsar 105 (No. 63705)
2 M	19:02	-	19:07		54.0	VI 2 (C: -1 N -	D-1105
3 May	20:02	-	20:07	Fine	55.2	XL2 (Serial No.	Pulsar 105
2021	21:02	-	21:07		55.4	A2A-13663-E0)	(No. 63705)
4 Mari	01:02	-	01:07		57.0	VI 2 (Carial Na	Pulsar 105
4 May 2021	03:02	-	03:07	Fine	50.6	XL2 (Serial No. A2A-13663-E0)	(No. 63705)
2021	05:02	-	05:07		57.6	A2A-13003-E0)	(No. 03703)
10 May 2021	16:04	-	16:34	Sunny	54.9	XL2 (Serial No. A2A-13663-E0)	Pulsar 105 (No. 63705)
10 M	19:04	-	19:09		56.2	VI 2 (C - :: -1 N -	D-1 105
10 May 2021	20:04	-	20:09	Fine	56.4	XL2 (Serial No. A2A-13663-E0)	Pulsar 105
2021	21:04	-	21:09		54.0		(No. 63705)
11 May	01:04	-	01:09	Fine	50.5	XL2 (Serial No. A2A-13663-E0)	Pulsar 105
2021	03:04	-	03:09		56.6		(No. 63705)
2021	05:04	-	05:09		54.8		(100. 03703)
17 May 2021	16:02	-	16:32	Sunny	59.8	XL2 (Serial No. A2A-13663-E0)	Pulsar 105 (No. 63705)
17 14	19:02	-	19:07		53.1	*** 0 (0 1 1 ) *	D-1 105
17 May 2021	20:02	-	20:07	Fine	56.4	XL2 (Serial No. A2A-13663-E0)	Pulsar 105 (No. 63705)
2021	21:02	-	21:07		51.5	A2A-13003-E0)	(140. 05705)
10 Mar.	01:02	-	01:07		54.8	VI 2 (Carial Na	Dulson 105
18 May 2021	03:02	-	03:07	Fine	52.6	XL2 (Serial No. A2A-13663-E0)	Pulsar 105
2021	05:02	-	05:07		51.7	A2A-13003-EU)	(No. 63705)
24 May 2021	16:03	-	16:33	Cloudy	57.9	XL2 (Serial No. A2A-13663-E0)	Pulsar 105 (No. 63705)
24 Max	19:03	-	19:08		55.5	VI 2 (Comical Nic	Pulsar 105
24 May 2021	20:03	-	20:08	Fine	55.4	XL2 (Serial No. A2A-13663-E0)	(No. 63705)
2021	21:03	-	21:08		55.0	A2A-13003-E0)	(140. 03/03)

Date	Start time		End time	Weather	$\begin{array}{c} L_{eq~30min}dB(A)~/\\ L_{eq~5min}dB(A) \end{array}$	Sound Level Meter Used	Calibrator Used
25 Mar.	01:03	-	01:08		58.7	VI 2 (Carial Na	Dulson 105
25 May 2021	03:03	-	03:08	Fine	55.3	XL2 (Serial No. A2A-13663-E0)	Pulsar 105
2021	05:03	-	05:08		58.6	A2A-13003-E0)	(No. 63705)
30 May	16:01	_	16:31	Cloudy	58.3	XL2 (Serial No.	Pulsar 105
2021	10.01	_	10.51	Cloudy	36.3	A2A-13663-E0)	(No. 63705)
30 May	19:01	-	19:06		56.7	XL2 (Serial No.	Pulsar 105
2021	20:01	-	20:06	Fine	56.4	A2A-13663-E0)	(No. 63705)
2021	21:01	-	21:06		55.1	A2A-13003-E0)	
1 Iuma	01:01	-	01:06		58.3	VI 2 (Comical No.	Dulaan 105
1 June 2021	03:01	-	03:06	Fine	56.3	XL2 (Serial No. A2A-13663-E0)	Pulsar 105
2021	05:01	-	05:06		60.3		(No. 63705)

Location: Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 2 (M2 /

N_S2)

Monitoring date: 3, 10, 17, 24 & 31 May 2021 (Daytime)

3&4, 10&11, 17&18, 24&25, 31 May 2021 & 1 June 2021 (Evening &

Night time)

Parameter: L_{eq 30min} (Daytime), L_{eq 5min} (Evening & Night time)

Noise source other than construction activities from

Air-conditioner

the Project:

# Noise Monitoring Data:

Date	Start time		End time	Weather	$\begin{array}{c} L_{eq \ 30min}  dB(A) \ / \\ L_{eq \ 5min}  dB(A) \end{array}$	Sound Level Meter Used	Calibrator Used
3 May 2021	16:02	-	16:32	Cloudy	58.9	SVAN 971 (Serial No. 96062)	Pulsar 105 (No. 63705)
2.14	19:02	-	19:07		62.7	GV/AN 071 (C : 1	D 1 107
3 May 2021	20:02	-	20:07	Fine	60.4	SVAN 971 (Serial	Pulsar 105
2021	21:02	-	21:07		59.7	No. 96062)	(No. 63705)
4 Mari	01:02	-	01:07		56.9	CVAN 071 (Carial	Pulsar 105
4 May 2021	03:02	-	03:07	Fine	58.9	SVAN 971 (Serial No. 96062)	(No. 63705)
2021	05:02	1	05:07		58.4	No. 90002)	(10. 03/03)
10 May 2021	16:02	ı	16:32	Sunny	62.1	SVAN 971 (Serial No. 96062)	Pulsar 105 (No. 63705)
10.14	19:02	-	19:07		57.0	GY/AN/071 (C : 1	D 1 105
10 May 2021	20:02	-	20:07	Fine	56.5	SVAN 971 (Serial No. 96062)	Pulsar 105
2021	21:02	-	21:07		63.0		(No. 63705)
11 Mov	01:02	-	01:07	Fine	49.8	SVAN 971 (Serial No. 96062)	Pulsar 105
11 May 2021	03:02	-	03:07		55.8		(No. 63705)
2021	05:02	-	05:07		57.7		(100. 03703)
17 May 2021	16:04	-	16:34	Sunny	60.8	SVAN 971 (Serial No. 96062)	Pulsar 105 (No. 63705)
17 Mar.	19:04	-	19:09		59.1	CVANIO71 (Cario1	Dulaar 105
17 May 2021	20:04	-	20:09	Fine	53.4	SVAN 971 (Serial	Pulsar 105 (No. 63705)
2021	21:04	-	21:09		58.8	No. 96062)	(10.03703)
10 More	01:04	-	01:09		55.1	SVAN 971 (Serial	Pulsar 105
18 May 2021	03:04	ı	03:09	Fine	51.6	No. 96062)	(No. 63705)
2021	05:04	ı	05:09		51.0	No. 90002)	(100. 03703)
24 May 2021	16:02	-	16:32	Cloudy	61.0	SVAN 971 (Serial No. 96062)	Pulsar 105 (No. 63705)
24 Moss	19:02	-	19:07		59.0	CVANIO71 (Comic)	Pulsar 105
24 May 2021	20:02	-	20:07	Fine	60.7	SVAN 971 (Serial No. 96062)	(No. 63705)
2021	21:02	-	21:07		58.0	110. 70002)	(110. 05/05)

Date	Start time		End time	Weather	$\begin{array}{c} L_{eq~30min}dB(A)/\\ L_{eq~5min}dB(A) \end{array}$	Sound Level Meter Used	Calibrator Used
25 May 2021	01:02	-	01:07	Fine	58.5	SVAN 971 (Serial No. 96062)	Pulsar 105 (No. 63705)
	03:02	-	03:07		59.9		
	05:02	-	05:07		58.7		
30 May 2021	16:04	-	16:34	Cloudy	58.5	SVAN 971 (Serial	Pulsar 105
						No. 96062)	(No. 63705)
30 May 2021	19:04	-	19:09	Fine	58.0	SVAN 971 (Serial No. 96062)	Pulsar 105 (No. 63705)
	20:04	-	20:09		55.6		
	21:04	-	21:09		53.3		
1 June 2021	01:04	-	01:09	Fine	58.2	SVAN 971 (Serial No. 96062)	Pulsar 105 (No. 63705)
	03:04	-	03:09		54.5		
	05:04	-	05:09		56.1		

Location: Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 3 (M3 /

N_S3)

Monitoring date: 3, 10, 17, 24 & 31 May 2021 (Daytime)

3&4, 10&11, 17&18, 24&25, 31 May 2021 & 1 June 2021 (Evening &

Night time)

Parameter: L_{eq 30min} (Daytime), L_{eq 5min} (Evening & Night time)

Noise source other than construction activities from

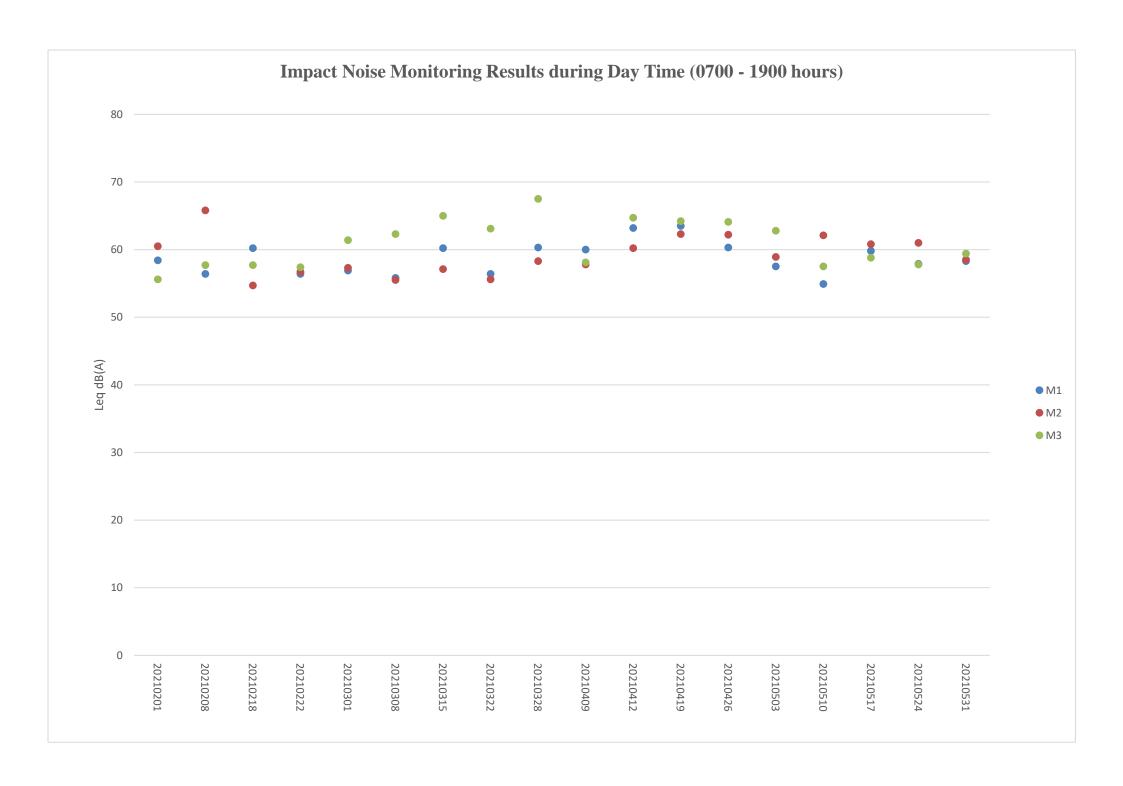
Air-conditioner

the Project:

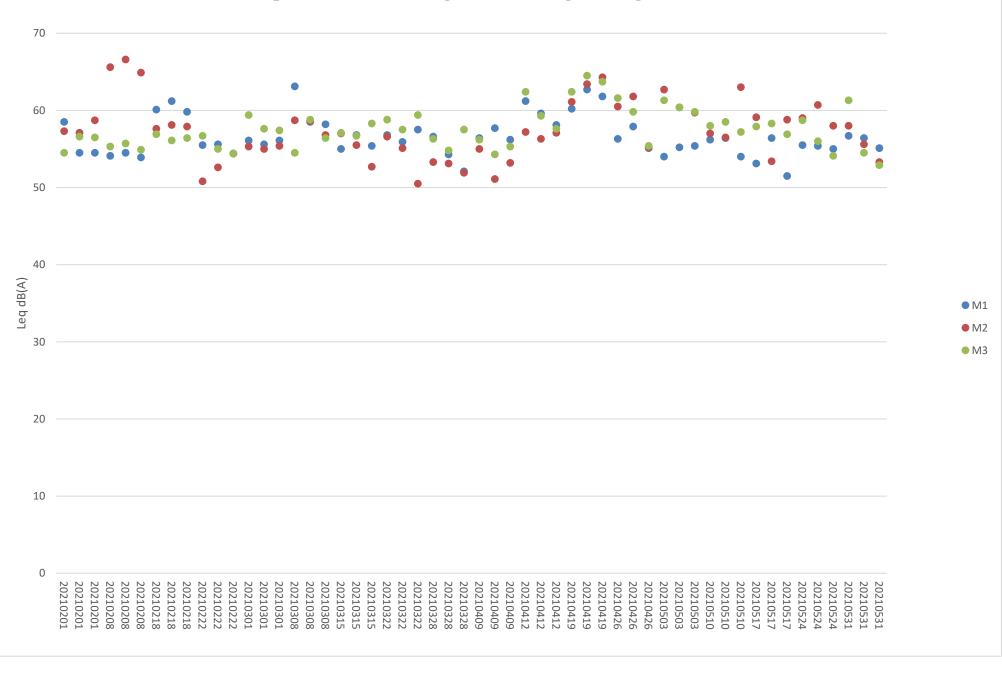
# Noise Monitoring data:

Date	Start time		End time	Weather	$\begin{array}{c} L_{eq~30min}dB(A)/\\ L_{eq~5min}dB(A) \end{array}$	Sound Level Meter Used	Calibrator Used
3 May 2021	16:04	ı	16:34	Cloudy	62.8	SVAN 971 (Serial No. 96063)	Pulsar 105 (No. 63705)
3 May 2021	19:04	-	19:09	Fine	61.3	SVAN 971 (Serial No. 96063)	Pulsar 105 (No. 63705)
	20:04	-	20:09		60.4		
	21:04	-	21:09		59.8		
4 Mari	01:04	-	01:09	Fine	58.9	SVAN 971 (Serial No. 96063)	Pulsar 105 (No. 63705)
4 May 2021	03:04	-	03:09		58.9		
2021	05:04	-	05:09		55.4		
10 May 2021	16:03	-	16:33	Sunny	57.5	SVAN 971 (Serial No. 96063)	Pulsar 105 (No. 63705)
10.14	19:03	-	19:08		58.0	SVAN 971 (Serial No. 96063)	Pulsar 105 (No. 63705)
10 May	20:03	-	20:08	Fine	58.5		
2021	21:03	-	21:08	1	57.2		
11 May 2021	01:03	-	01:08	Fine	54.0	SVAN 971 (Serial No. 96063)	Pulsar 105 (No. 63705)
	03:03	-	03:08		53.2		
2021	05:03	-	05:08		55.9		
17 May 2021	16:03	-	16:34	Sunny	58.8	SVAN 971 (Serial No. 96063)	Pulsar 105 (No. 63705)
17.14	19:03	-	19:08	Fine	57.9	SVAN 971 (Serial No. 96063)	Pulsar 105 (No. 63705)
17 May 2021	20:03	-	20:08		58.3		
2021	21:03	-	21:08		56.9		
18 May 2021	01:03	-	01:08	Fine	55.1	SVAN 971 (Serial No. 96063)	Pulsar 105 (No. 63705)
	03:03	-	03:08		55.6		
	05:03	-	05:08		54.3		
24 May 2021	16:03	-	16:33	Cloudy	57.8	SVAN 971 (Serial No. 96063)	Pulsar 105 (No. 63705)
24 May 2021	19:03	-	19:08	Fine	58.7	SVAN 971 (Serial No. 96063)	Pulsar 105 (No. 63705)
	20:03	-	20:08		56.0		
	21:03	-	21:08		54.1		

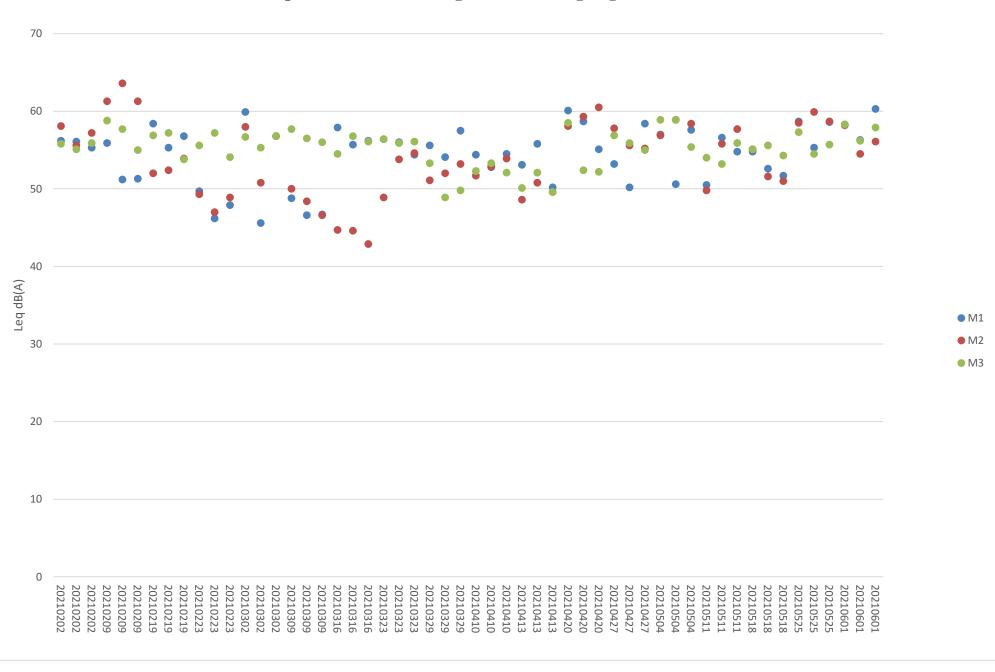
Date	Start time		End time	Weather	$\begin{array}{c} L_{eq~30min}dB(A)/\\ L_{eq~5min}dB(A) \end{array}$	Sound Level Meter Used	Calibrator Used
25 May 2021	01:03	-	01:08	Fine	57.3	SVAN 971 (Serial No. 96063)	Pulsar 105 (No. 63705)
	03:03	-	03:08		54.5		
	05:03	-	05:08		55.7		
30 May 2021	16:02	-	16:32	Cloudy	59.4	SVAN 971 (Serial	Pulsar 105
						No. 96063)	(No. 63705)
30 May 2021	19:02	-	19:07	Fine	61.3	SVAN 971 (Serial No. 96063)	Pulsar 105 (No. 63705)
	20:02	-	20:07		54.5		
	21:02	-	21:07		52.9		
1 June 2021	01:02	-	01:07	Fine	58.3	SVAN 971 (Serial No. 96063)	Pulsar 105 (No. 63705)
	03:02	-	03:07		56.2		
	05:02	-	05:07		57.9		



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



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



Contract No. EP/SP/66. Integrated Waste Mana	/12 gement Facilities, Phase 1	Keppel Seghers – Zhen Hua Joint Venture
Appendix K	Waste Flow Table	





#### 2018 **Monthly Summary Waste Flow Table for** (year)

Project : Ir	ject : Integrated Waste Management Facilities, Phase 1								Contract No.: EP/SP/66/12					
		Actual	Quantities of	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	Imported Fill Sand	Imported Fill Public fill	Imported Fill Rock	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemica	l Waste	Others, e.g. general refuse (see Note 3)
	(in ,000m ³ )	$(in ,000m^3)$	(in ,000m ³ )	(in ,000m ³	$(in,000m^3)$	(	in ,000m ³ )	1	(in ,000 kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	(in ,000 m ³ )
Jan	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub-total	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0065
Sep	0	0	0	0	0	2.9619	0	0	0	0	0	0	0	0
Oct	0	0	0	0	0	3.0771	0	0	0	0	0	0	0	0.0130
Nov	0	0	0	0	0	6.7871	0	0	0	0	0	0	0	0
Dec	0	0	0	0	0	59.0709	0	0	0	0	0	0.2000	0.8700	0
Total	0	0	0	0	0	71.8970	0	0	0	0	0	0.2000	0.8700	0.0195

- Broken concrete for recycling into aggregates. (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 6.5m³ by volume.





#### **Monthly Summary Waste Flow Table for** 2019 (year)

Project : In	roject : Integrated Waste Management Facilities, Phase 1									Contract No.: EP/SP/66/12				
		Actual	Quantities of	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	Fill	Imported Fill Public fill	Imported Fill Rock	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemica	l Waste	Others, e.g. general refuse (see Note 3)
	(in ,000m ³ )	(in ,000m ³ )	(in ,000m ³ )	(in ,000m ³	(in ,000m ³ )	(1	$(1000m^3)$		(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. (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 6.5m³ by volume.





(year)

#### **Monthly Summary Waste Flow Table for** 2020

Project : I	ect : Integrated Waste Management Facilities, Phase 1								Contract No.: EP/SP/66/12					
		Actual	Quantities of	f Inert C&D	Materials Ger	nerated Mor	nthly		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	Imported Fill Sand	Imported Fill Public fill	Imported Fill Rock	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemica	l Waste	Others, e.g. general refuse (see Note 3)
	(in ,000m ³ )	$(in ,000m^3)$	(in ,000m ³ )	(in ,000m ³	(in ,000m ³ )	(	in ,000m ³ )	r	(in ,000 kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	(in ,000 m ³ )
Jan	0	0	0	0	0	37.1550	0	25.0812	0	0	0	0	0	0.0065
Feb	0	0	0	0	0	27.7910	0	18.8300	0	0	0	0	0	0.0065
Mar	0	0	0	0	0	22.5669	0	26.1586	0	0	0	0	7.2000	0.0065
Apr	0	0	0	0	0	12.7800	0	10.1825	0	0	0	0	0	0.0195
May	0	0	0	0	0	16.1138	0	24.3740	0	0.4220	0	0	0	0.0195
Jun	0	0	0	0	0	31.5177	0	28.3030	0	0	0	0	0	0.0065
Sub-total	0	0	0	0	0	147.9244	0	132.9293	0	0.4220	0	0	7.2000	0.0650
Jul	0	0	0	0	0	34.7856	17.0606	35.1800	0	0	0	0	0	0.0195
Aug	0	0	0	0	0	27.1375	65.5667	27.9335	0	0	0	0	0	0
Sep	0	0	0	0	0	11.9813	110.1328	43.5435	0	0	0	0	0	0.0195
Oct	0	0	0	0	0	2.8213	131.6600	22.5415	0	0	0	0	0	0.0130
Nov	0	0	0	0	0	0	162.1811	44.6475	0	0.4090	0	0	0.4000	0.0130
Dec	0	0	0	0	0	0	174.9800	57.8380	0	0	0	0	0	0.0130
Total	0	0	0	0	0	224.6501	661.5812	364.6133	0	0.8310	0	0	7.6000	0.1430

- Broken concrete for recycling into aggregates. (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 6.5m³ by volume.





# Monthly Summary Waste Flow Table for 2021 (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				onthly				
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete (see Note 1)		Reused in other Projects	Disposed as Public Fill	Imported Fill Sand	Imported Fill Public fill	Imported Fill Rock	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemica	l Waste	Others, e.g. general refuse (see Note 3)
	(in ,000m ³ )	$(in ,000m^3)$	(in ,000m ³ )	(in ,000m ³	(in ,000m ³ )	(	in ,000m ³ )		(in ,000 kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	(in ,000 m ³ )
Jan	0	0	0	0	0	0	198.1311	36.4775	0	0	0	0	0	0.0065
Feb	0	0	0	0	0	0	143.9511	20.9960	0	0	0	0	0	0.6305
Mar	0	0	0	0	0	0	103.1833	23.4510	0	0	0	0	0	0.0130
Apr	0	0	0	0	0	0	161.2956	27.2810	0	0	0	0	0	0.0130
May	0	0	0	0	0	0	193.3300	20.5265	0	0	0	0	0	0.0715
Jun														
Sub-total	0	0	0	0	0	0	799.8911	128.7320	0	0	0	0	0	0.7345
Jul														
Aug														
Sep														
Oct														
Nov														
Dec														
Total	0	0	0	0	0	0	799.8911	128.7320	0	0	0	0	0	0.7345

- (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 6.5m³ by volume.

Contract No. EP/SP/66/1 Integrated Waste Manag	ement Facilities, Phase 1	Keppel Seghers – Zhen Hua Joint Venture
Appendix L	Event / Action Plan for Co	oral Monitoring

Event		Actio	n	
Ī	ET Leader II	EC S	0 0	ontractor
Exceedance 3	Check monitoring data Inform the IEC, SO and Contractor of the findings; Increase the monitoring to at least once a month to confirm findings; Propose mitigation measures for consideration	ET and the Contractor;	Discuss with the IEC 1. additional monitoring requirements and any other measures proposed by the 2. ET; Make the agreement on the measures to be 3. implemented.	notification of the non-compliance in writing; Discuss with the ET and the IEC and propose measures to the IEC and the SO;
Limit Level ¹ Exceedance	. Undertake Steps 1-4 as in 1. the Action Level Exceedance. If further 2. exceedance of Limit Level, propose enhancement measures for consideration.	ET and the Contractor;	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;

Contract No. EP/SP/66/12 Integrated Waste Manager		Keppel Seghers – Zhen Hua J	oint Venture
Appendix M	Event / Action Plan for \	White-Bellied Sea E	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.

Contract No. EP/SP/66 Integrated Waste Mana	/12 gement Facilities, Phase 1	Keppel Seghers – Zhen Hua Joint Venture
Appendix N	Exceedance Report	

## Statistical Summary of Exceedances in the Reporting Period

	Water Quality (l	Regular Monitoring)	
Location	Action Level	Limit Level	Total
B1	0	0	0
B2	0	0	0
В3	0	0	0
B4	0	0	0
CR1	0	0	0
CR2	0	0	0
F1A	0	0	0
H1	0	0	0
<b>S</b> 1	0	0	0
S2A	0	0	0
<b>S</b> 3	0	0	0
M1	0	0	0

	Noise (	Day Time)	
Location	Action Level	Limit Level	Total
M1	0	0	0
M2	0	0	0
M3	0	0	0
<u>,                                      </u>	Noise (E	vening Time)	
Location	Action Level	Limit Level	Total
M1	0	0	0
M2	0	0	0
M3	0	0	0
·	Noise (I	Night Time)	·
Location	Action Level	Limit Level	Total
M1	0	0	0
M2	0	0	0
M3	0	0	0

Contract No. EP/SP/66. Integrated Waste Management	/12 gement Facilities, Phase 1	Keppel Seghers – Zhen Hua Joint Venture
Appendix O	Complaint Log	

## Statistical Summary of Environmental Complaints

<b>Environmental Complaint Statistics</b>		
Frequency	Cumulative	Complaint Nature
0	0	N/A

### Statistical Summary of Environmental Summons

Reporting	Environmental Summons Statistics		
Period	Frequency	Cumulative	Details
1 May 2021- 31 May 2021	0	0	N/A

## Statistical Summary of Environmental Prosecution

Reporting	Environmental Prosecution Statistics		
Period	Frequency	Cumulative	Details
1 May 2021- 31 May 2021	0	0	N/A

Contract No. EP/SP/66/ Integrated Waste Manag	/12 gement Facilities, Phase 1	Keppel Seghers – Zhen Hua Joint Venture
Appendix P	Impact Monitoring Schedul Month	e of Next Reporting

Impact Monitoring Schedule for IWMF					
			Jun-21		
Sun	Mon	Tue		Thu	Fri Sat
		1	2	3	4 5
		Impact	Impact		Impact
			Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2,		Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1
			M1		Tidal Period:
			Tidal Period:		Ebb Tide: 07:00 - 12:00
			Ebb Tide: 14:12 - 22:06		Flood Tide: 12:00 - 17:00
			Flood Tide: 08:00 - 14:12		Monitoring Time:
			Monitoring Time:		*Mid-ebb: 08:00 - 11:30
			&Mid-ebb: 15:30 - 19:00 Mid-flood: 09:21 - 12:51		Mid-flood: 12:45 - 16:15
			Wild-flood: 05.21 - 12.31		
6	7	8	9	10	11 12
	Impact	Impact	Impact		Impact
	Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1	Daytime, Evening & Night time Noise monitoring for M1, M2 & M3	Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2,		Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1
	Tidal Period:		M1		Tidal Period:
	Ebb Tide: 08:00 - 14:07		Tidal Period:		Ebb Tide: 09:02 - 16:42
	Flood Tide: 14:07 - 20:17		Ebb Tide: 08:23 - 15:26		Flood Tide: 16:42 - 23:17
	Monitoring Time:		Flood Tide: 15:26 - 21:54		Monitoring Time:
	Mid-ebb: 09:18 - 12:48		Monitoring Time:		Mid-ebb: 11:07 - 14:37
	Mid-flood: 15:27 - 18:57		Mid-ebb: 10:09 - 13:39		#\$&Mid-flood: 16:42 - 19:00
	Daytime, Evening & Night time Noise monitoring for M1, M2 & M3		&Mid-flood: 15:30 - 19:00		Daytime, Evening & Night time Noise monitoring for M1, M2 & M3
12		15	16	17	18 19
15	27			17	
	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1	Impact  Daytime Evening & Night time Noise monitoring for M1 M2 & M3	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2,		Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1
	Tidal Period:	Ecology monitoring for Marine Mammals by Vessel-based Line-Transect	M1		Tidal Period:
	Ebb Tide: 10:14 - 19:00	Survey	Tidal Period:		Ebb Tide: 14:00 - 22:01
	Flood Tide: 04:00 - 10:14		Ebb Tide: 11:56 - 20:22		Flood Tide: 08:03 - 14:00
	Monitoring Time:		Flood Tide: 06:00 - 11:56		Monitoring Time:
	Mid-ebb: 12:52 - 16:22		Monitoring Time:		&Mid-ebb: 15:30 - 19:00
	*#\$Mid-flood: 08:00 - 10:14		Mid-ebb: 14:24 - 17:54		Mid-flood: 09:16 -12:46
			*Mid-flood: 08:00 - 11:30		
			Daytime, Evening & Night time Noise monitoring for M1, M2 & M3		
20	Impact	22 Impact	Impact Impact	24 Impact	25 26 Impact
	Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1				Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1
	Tidal Period:	, , , , , , , , , , , , , , , , , , ,	M1	10th Quarterly Coral Monitoring at Indirect Impact Site and Control Site	Tidal Period:
	Ebb Tide: 06:19 - 12:36		Tidal Period:	,	Ebb Tide: 08:49 - 16:24
	Flood Tide: 12:36 - 19:08		Ebb Tide: 07:25 - 14:34		Flood Tide: 16:24 - 23:39
	Monitoring Time:		Flood Tide: 14:34 - 21:41		Monitoring Time:
	*Mid-ebb: 08:00 - 11:30		Monitoring Time:		Mid-ebb: 10:51 - 14:21
	Mid-flood: 14:07 -17:37		Mid-ebb: 09:14 - 12:44		#\$&Mid-flood: 16:24 - 19:00
	Daytime, Evening & Night time Noise monitoring for M1, M2 & M3		&Mid-flood: 15:30 - 19:00		
27	29	20	20		
	Impact	Impact	Impact		
	Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1				
	Tidal Period:	, , , , , , , , , , , , , , , , , , , ,	M1		
	Ebb Tide: 11:13 - 19:00		Tidal Period:		
	Flood Tide: 05:00 - 11:13		Ebb Tide: 11:13 - 19:00		
	Monitoring Time:		Flood Tide: 07:00 - 13:00		
	Mid-ebb: 13:21 - 16:51		Monitoring Time:		
	*#\$Mid-flood: 08:00 - 11:13		Mid-ebb: 14:55 - 18:25		
	Daytime, Evening & Night time Noise monitoring for M1, M2 & M3		Mid-flood: 08:15 - 11:45		
1					

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 S1,52 and S3 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: C1-953-CR2-CR1-9H1-9Remaining stations and Mid-Flood: C2-CR1-953-CR2-9H1-9Remaining stations

  \$ Since predicted tide is shorter than 3.5 hours, method of 90% tidal period as monitoring time is approached.

  & Due to safety concern for sampling event in night-time, method of 90% tidal period as monitoring time is approached and end at 1900.