Zhen Hua Engineering Co., Ltd

Contract No. KL/2013/01

Site Formation for Kai Tak Cruise Terminal Development – Remaining Works

Monthly EM&A Report
October 2015
(Version 1.0)

Certified By _____

(Environmental Team Leader)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

CINOTECH accepts no responsibility for changes made to this report by third parties

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EXECUTIVE SUMMARY

Introduction

1. This is the 7th monthly Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for the project "Contract No. KL/2013/01 – Site Formation for Kai Tak Cruise Terminal Development – Remaining Works" (hereinafter called the "Project"). This report documents the findings of EM&A Works conducted in October 2015.

Environmental Monitoring and Audit Progress

2. A summary of the monitoring activities under the Project in this reporting month is listed in **Table I** below:

Table I Summary Table for Monitoring Activities under Project in the Reporting Month

Parameter(s)	Date(s)
Water Quality Monitoring	2nd, 6th, 8th, 10th, 12th, 14th, 16th, 19th, 22nd, 24th, 26th, 28th and 31st October 2015
Environmental Site Inspection	6th, 15th, 22nd and 28th October 2015

Breaches of Action and Limit Levels

3. Summary of the environmental exceedances of the reporting month is tabulated in **Table II**.

Table II Summary Table for Events Recorded in the Reporting Month

Environmental Monitoring	Parameter	No. of Exceedance		No. of Exceedance related to the Dredging Activities of this Project	
		Action Level	Limit Level	Action Level	Limit Level
	Turbidity	0	0	0	0
	Suspended Solids (SS)	0	0	0	0

Water Quality

4. All water quality monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Noise Monitoring

5. Due to the non-existence of planned NSRs during the reporting period, no noise monitoring was required to be conducted at the planned noise monitoring locations NM1 and NM2.

Complaint Log

6. No environmental complaints were received in the reporting month.

Notification of Summons and Successful Prosecutions

7. No notification of summons and successful prosecution was received in the reporting month.

Reporting Changes

8. This report has been developed in compliance with the reporting requirements for the monthly EM&A Report as required by the EM&A Manual for Dredging Works for Proposed Cruise Terminal at Kai Tak (EM&A Manual).

Future Key Issues

9. Major site activities for the coming reporting month will include:

   (a) Dredging works

   (b) Sorting and breaking of C&D Materials for further disposal off site

   (c) Off-site disposal of C&D Materials

   (d) Refuse collection at Cha Kwo Ling WSD Flushing Water Intakes

   (e) Maintenance of silt curtains & silt screen

1 INTRODUCTION

1.1 Cinotech Consultants Limited (Cinotech) was appointed by Zhen Hua Engineering Co., Ltd (hereinafter called "the Contractor") as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) programme during dredging works of the Contract No. KL/2013/01 – Site Formation for Kai Tak Cruise Terminal Development – Remaining Works (hereinafter called the "Project") in accordance with EP Conditions 2.1.

1.2 The dredging works under the Project was commenced on 6th May 2015.

Purpose of the report

1.3 This is the 7th EM&A report which summarises the monitoring results and audit findings for the EM&A programme in October 2015.

Structure of the report

1.4 The structure of the report is as follows:

Section 1: **Introduction -** purpose and structure of the report.

Section 2: **Project Information** - summarises background and scope of the Project, site description, project organization and contact details, construction programme, the construction works undertaken and the status of Environmental Permits/Licenses during the reporting month.

Section 3: **Noise Monitoring -** summarises the monitoring programmes and monitoring locations.

Section 4: **Water Quality Monitoring -** summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequency, monitoring locations, Action and Limit Levels, monitoring results and Event / Action Plans.

Section 5: **Water Quality Surveillance System -** summarises the monitoring locations, monitoring results and analytical results.

Section 6: **Environmental Site Inspection -** summarises the audit findings of the weekly site inspections undertaken within the reporting month.

Section 7: **Environmental Non-conformance -** summarises any monitoring exceedance, environmental complaints, environmental summons and successful prosecutions within the reporting month.

Section 8: **Future Key Issues -** summarises the impact forecast and monitoring schedule for the next three months.

Section 9: **Conclusions and Recommendation**

2 PROJECT INFORMATION

Background

2.1 The former Kai Tak Airport located in the south-eastern part of Kowloon Peninsula was the international airport of Hong Kong. The Kai Tak Airport had come into operations since 1920s. The operation of the Kai Tak Airport was ceased and replaced by the new airport at Chek Lap Kok in July 1998. After closure, the disused airport site has been occupied by various temporary uses, including a golf driving range on the runway area.

2.2 In 2002, the Chief Executive in Council approved the Kai Tak Outline Zoning Plans (No. S/K19/3 and S/K21/3) to provide the statutory framework to proceed with the South East Kowloon Development at the former Kai Tak Airport. However, following the judgment of the Court of Final Appeal in January 2004 regarding the Harbour reclamation, the originally proposed development which involves reclamation has to be reviewed. The Kai Tak Planning Review (KTPR) has resulted with a Preliminary Outline Development Plan (PODP) for Kai Tak in October 2006. Subsequently, the Administration announced in October 2006 a plan to implement a cruise terminal at Kai Tak, as part of the development.

2.3 Development of the cruise terminal at Kai Tak would require dredging at the existing seawall at the southern tip of the former Kai Tak Airport runway for construction of a quay deck structure for two berths, and dredging the seabed fronting the new quay to provide necessary manoeuvring basin. The general layout of the proposed cruise terminal construction is shown in **Figure 1**.

2.4 The Site Formation for Kai Tak Cruise Terminal Development Project involves a dredging operation exceeding 500,000m^3 for construction and operation of the proposed cruise terminal at Kai Tak and is therefore classified as a Designated Project under Item C.12, Part I, Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO). An Environmental Impact Assessment (EIA) Study for the Project has been undertaken in accordance with the EIA Study Brief (No. ESB-159/2006) and the Technical Memorandum on Environmental Impact Assessment Process (EIAO-TM).

2.5 Stage 1 dredging and removal and reconstruction of existing seawall were completed. Part of Stage 2 dredging works were commenced on 20th April 2014 and also completed in August 2014. The Remaining Works for Stage 2 dredging works were commenced on 6th May 2015 and was in progress.

Project Organisation

2.6 Different parties with different levels of involvement in the Project organization include:

- Project Proponent – Civil Engineering and Development Department (Kowloon Development Office) (CEDD)
- Engineer's Representative (ER) – AECOM Consulting Services Limited
- Contractor – Zhen Hua Engineering Co., Ltd (ZHEC)
- Environmental Team (ET) – Cinotech Consultants Ltd. (Cinotech)
- Independent Environmental Checker (IEC) – Fugro (HK) Limited (Furgo)

2.7 The proposed project organization and lines of communication with respect to the on-site environmental management structure are shown in **Figure 4**. The key personnel

contact names and numbers are summarized in **Table 2.1.**

Table 2.1 Key Contacts of the Project

Party	Role	Position	Name	Phone No.	Fax No.
CEDD	Project Proponent	Senior Engineer	Ms. Esther Yung	2301 1302	2301 1277
AECOM Consulting Services Limited	Engineer's Representative	Resident Engineer	Mr. Tsui Shiu Kai	2148 7638	2148 7277
ZHEC	Contractor	Project Manager	Mr. YF Cho	9493 9201	2379 5931
		Site Agent	Mr. Joe Cheung	9263 6339	
		Environmental Officer	Mr. CK Kwan	9506 3074	2379 5931
Fugro	Independent Environmental Checker (IEC)	IEC	Mr. Joseph Poon	2450 8238	2450 6138
Cinotech	Environmental Team Leader (ETL)	ETL	Dr. Priscilla Choy	2151 2089	3107 1388

Construction Programme

2.8 A copy of Contractor's construction programme is provided in **Appendix A**.

Summary of Construction Works Undertaken During Reporting Month

2.9 The major site activities undertaken in the reporting month included:

(a) Dredging works

(b) Trimming works

(c) Sorting and breaking of C&D Materials for further disposal off site

(d) Off-site disposal of C&D Materials

(e) Refuse collection at Cha Kwo Ling WSD Flushing Water Intakes

(f) Maintenance of silt curtains & silt screen

Status of Environmental Licences, Notification and Permits

2.10 A summary of the relevant permits, licences, and/or notifications on environmental protection for this Project is presented in **Table 2.2**.

Table 2.2 Status of Environmental Licences, Notification and Permits

Permit / License No.	Valid Period		Status
	From	To	
Environmental Permit (EP)			
EP-328/2009/A	15/06/2009	N/A	Valid
Construction Noise Permit (CNP)			
GW-RE0414-15	05/05/2015 (19:00)	04/11/2015 (23:00)	Valid
GW-RE0523-15	26/05/2015 (19:00)	25/11/2015 (23:00)	Valid
GW-RE0929-15	15/09/2015 (23:00)	13/03/2016 (07:00)	Valid
Marine Dumping Permit			
EP/MD/15-261 (Type 1 – Open Sea Disposal)	30/04/2015	29/10/2015	Valid until 29/10/2015
EP/MD/16-082 (Type 1 Open Sea Disposal (Dedicated Site) and Type 2 – Confined Marine Disposal)	17/09/2015	16/10/2015	Valid until 16/10/2015
EP/MD/16-095 (Type 1 – Open Sea Disposal)	06/10/2015	05/04/2016	Valid
EP/MD/16-106 (Type 1 Open Sea Disposal (Dedicated Site) and Type 2 – Confined Marine Disposal)	17/10/2015	16/11/2015	Valid

3 NOISE MONITORING

3.1 In accordance with the EIA Report and the EM&A Manual, it is anticipated that construction activities, if unmitigated, would not cause any adverse noise impact to the nearest NSRs in the vicinity of the work site. The predicted noise levels at the NSRs would comply with construction noise criteria.

3.2 These nearest NSRs are designated for construction noise monitoring as listed in Table 3.1 and **Figure 3**.

Table 3.1 Planned Noise Monitoring Stations during Construction Phase

Monitoring Stations	Description
NM1	Planned Residential Development (R3 site)
NM2	Planned Residential Development (R3 site)

3.3 As per Section 3.1.1 of the EM&A Manual states that "Noise levels shall be monitored to evaluate the construction noise impact if there is any planned noise sensitive receivers (NSRs) occupied within 300m from the works area of this Project during the proposed dredging works". Therefore, the impact monitoring for construction noise shall only be carried out when the planned residential development at the two identified monitoring stations are occupied at a later stage.

4 WATER QUALITY MONITORING

Monitoring Requirements

4.1 According to EM&A Manual, impact water quality monitoring shall be carried out three days per week during the course of the dredging works. The interval between two sets of monitoring will not be less than 36 hours except there are exceedances of Action and/or Limit levels in which the monitoring frequency will be increased according to the Action/Event Plan. For selection of tides for *in-situ* measurement and water sampling, tidal range of individual flood and ebb tides should be not less than 0.5m.

4.2 Duplicate in-situ measurements and samples shall be carried out in each sampling event.

4.3 Impact water quality monitoring was conducted two times per monitoring day during mid ebb and mid flood tides. Dissolved oxygen, Suspended solids (SS), turbidity, pH, salinity and temperature were monitored in accordance with the requirements set out in the EM&A Manual and specification.

4.4 **Appendix B** shows the established Action/Limit Levels for the water quality monitoring works.

Monitoring Locations

4.5 Water quality monitoring was conducted at 3 monitoring stations under the Project which are summarized in **Table 4.1**. The monitoring station is also shown in **Figure 2**.

Table 4.1 Location for Marine Water Quality Monitoring Locations

Monitoring Stations	Coordinates	
	Easting	Northing
WSD9 – Tai Wan	837921.0	818330.0
WSD10 – Cha Kwo Ling	841900.9	817700.1
WSD17 – Quarry Bay	839790.3	817032.2

Monitoring Equipment

Instrumentation

4.6 Multi-parameter meters (Model Aquaread AP-2000-D) were used to measure DO, turbidity, salinity, pH and temperature.

Dissolved Oxygen (DO) and Temperature Measuring Equipment

4.7 The instrument for measuring dissolved oxygen and temperature was portable and weatherproof complete with cable, sensor, comprehensive operation manuals and use DC power source. It was capable of measuring:

- a dissolved oxygen level in the range of 0-20 mg/L and 0-200% saturation; and
- a temperature of 0-45 degree Celsius.

4.8 It has a membrane electrode with automatic temperature compensation complete with a cable.

4.9 Sufficient stocks of spare electrodes and cables were available for replacement where necessary.

4.10 Salinity compensation was built-in in the DO equipment.

Turbidity

4.11 Turbidity was measured in situ by the nephelometric method. The instrument was portable and weatherproof using a DC power source complete with cable, sensor and comprehensive operation manuals. The equipment was capable of measuring turbidity between 0-1000 NTU. The probe cable was not less than 25m in length. The meter was calibrated in order to establish the relationship between NTU units and the levels of suspended solids.

Sampler

4.12 A water sampler, consisting of a transparent PVC or glass cylinder of a capacity of not less than two litres which can be effectively sealed with cups at both ends was used. The water sampler has a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler was at the selected water depth.

Water Depth Detector

4.13 A portable, battery-operated echo sounder was used for the determination of water depth at each designated monitoring station.

pH

4.14 The instrument was consisting of a potentiometer, a glass electrode, a reference electrode and a temperature-compensating device. It was 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.

Salinity

4.15 A portable salinometer capable of recording salinity within the range of 0-40 ppt was used for salinity measurements.

Monitoring Position Equipment

4.16 A hand held Global Positioning System (GPS) was used during water quality monitoring to ensure the monitoring vessel is at the correct location before taking measurements.

Sample Container and Storage

4.17 Following collection, water samples for laboratory analysis were stored in high density polythene bottles (250ml/1L) with no preservatives added, packed in ice (cooled to 4°C without being frozen) and kept in dark during both on-site temporary storage and

shipment to the testing laboratory. The samples were delivered to the laboratory as soon as possible and the laboratory determination works were started within 24 hours after collection of the water samples. Sufficient volume of samples was collected to achieve the detection limit.

Calibration of In Situ Instruments

4.18 All in situ monitoring instruments were checked, calibrated and certified by a laboratory accredited under HOKLAS or other international accreditation scheme before use, and subsequently re-calibrated at 3 monthly intervals throughout all stages of the water quality monitoring programme. 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 measurement at each monitoring event.

4.19 For the on-site calibration of field equipment (Multi-parameter Water Quality System), the BS 1427:2009, "Guide to on-site test methods for the analysis of waters" was observed.

4.20 Sufficient stocks of spare parts were maintained for replacements when necessary. Backup monitoring equipment was also being made available so that monitoring can proceed uninterrupted even when some equipment was under maintenance, calibration, etc.

4.21 The equipment used for impact water quality monitoring is shown in **Table 4.2** and copies of the calibration certificates are shown in **Appendix C**. All the monitoring equipment complied with the requirements set out in the EM&A Manual.

Table 4.2 Water Quality Monitoring Equipment

Equipment	Model and Make	Qty
Multi-parameter Water Quality System	Aquaread AP-2000-D	2

Monitoring Parameters, Frequency

4.22 **Table 4.3** summarizes the monitoring parameters, monitoring period and frequencies of the water quality monitoring. The water quality monitoring schedule for the reporting month is shown in **Appendix D**.

Table 4.3 Water Quality Monitoring Parameters and Frequency

Monitoring Stations	Parameters, unit	Depth	Frequency
WSD9 WSD10 WSD17	• Temperature(°C) • pH (pH unit) • turbidity (NTU) • water depth (m) • salinity (ppt) • dissolved oxygen(DO) (mg/L and % of saturation) • suspended solids (SS) (mg/L)	• mid-depth	• 3 days per week, at mid-flood and mid-ebb tides

4.23 Monitoring location/position, time, water depth, sampling depth, pH, salinity, DO saturation, water temperature, tidal stages, weather conditions and any special phenomena or work underway nearby were recorded.

Monitoring Methodology

Instrumentation

4.24 Multi-parameter meters (Model Aquaread AP-2000-D) were used to measure DO, turbidity, salinity, pH and temperature.

Operating/Analytical Procedures

4.25 The monitoring stations were accessed by the guide of a hand-held Global Positioning System (GPS) during water quality monitoring in accordance with the EM&A Manual. The depth of the monitoring location was measured using depth meter in order to determine the sampling depths. Afterwards, the probes of the in-situ measurement equipment were lowered to the mid-depth and the measurements were carried out accordingly.

4.26 At each measurement, two consecutive measurements of DO concentration, DO saturation, salinity, turbidity, pH and temperature were taken. The probes were retrieved out of the water after the first measurement and then re-deployed for the second measurement. Where the difference in the value between the first and second readings of each set was more than 25% of the value of the first reading, the reading was discarded and further readings were taken.

4.27 Water sampler was lowered into the water to the required depths of sampling. Upon reaching the pre-determined depth, a messenger to activate the sampler was then released to travel down the wire. The water sample was sealed within the sampler before retrieving. At each station, water samples at mid-depth were collected accordingly. Water samples were stored in a cool box and kept at less than 4°C but without frozen and sent to the laboratory as soon as possible. In addition, field information as described

in Section 4.23 was also recorded.

Laboratory Analytical Methods

4.28 The testing of all parameters was conducted by WELLAB Ltd. (HOKLAS Registration No.083) and comprehensive quality assurance and control procedures in place in order to ensure quality and consistency in results. The testing method, reporting limit and detection limit are provided in **Table 4.4**.

Table 4.4 Methods for Laboratory Analysis for Water Samples

Determinant	Instrumentation	Analytical Method	Detection Limit	Reporting Limit
Suspended Solid (SS)	Weighing	APHA 17e 2540D	0.5 mg/L	2.5 mg/L

QA/QC Requirements

Decontamination Procedures

4.29 Water sampling equipment used during the course of the monitoring programme was decontaminated by manual washing and rinsed clean seawater/distilled water after each sampling event. All disposal equipment was discarded after sampling.

Sampling Management and Supervision

4.30 All sampling bottles were labelled with the sample I.D (including the indication of sampling station and tidal stage e.g. IS1_me_a), laboratory number and sampling date. Water samples were dispatched to the testing laboratory for analysis as soon as possible after the sampling. All samples were stored in a cool box and kept at less than 4°C but without frozen. All water samples were handled under chain of custody protocols and relinquished to the laboratory representatives at locations specified by the laboratory.

4.31 The laboratory determination works were started within 24 hours after collection of the water samples.

Quality Control Measures for Sample Testing

4.32 The samples testing were performed by HOKLAS accredited laboratories.

4.33 The following quality control programme was performed by the CMA Testing and Certification Laboratories for every batch of 20 samples:

- ✧ One set of quality control (QC) samples.

Maintenance and Calibration

4.34 All in situ monitoring instruments were checked, calibrated and certified by a laboratory accredited under HOKLAS or other international accreditation scheme before use, and subsequently re-calibrated at 3 monthly intervals throughout all stages of the water quality monitoring programme.

Results and Observations

4.35 The monitoring results and graphical presentation of water quality at the monitoring stations is shown in **Appendix E.**

4.36 The summary of exceedance record in reporting month is shown in **Appendix H.**

4.37 All water quality monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedances for suspended solids and turbidity were recorded.

Event and Action Plan

4.38 Should non-compliance of the criteria occur, action in accordance with the Action Plan in **Appendix G** shall be carried out.

5 WATER QUALITY SURVEILLANCE SYSTEM

5.1 2 water quality surveillance monitoring events were conducted on 14 and 28 October 2015 in accordance with Particular Specification, Section 25.38. Turbidity and SS monitoring were conducted at 12 locations which summarized in **Table 5.1** and shown in **Figure 5.**

Table 5.1 Monitoring Stations for Water Quality Surveillance System

Set	Monitoring Stations	Coordinates	
		Northing	Easting
A	A4	818245.810	839713.112
	A5	817842.450	839754.669
	A6	817637.499	839540.500
	A7	817957.756	839515.877
B	B1	Position change with the location of dredger and the silt curtain at grab in 4 orthogonal directions from the silt curtain at grab as agreed with the Engineer	
	B2		
	B3		
	B4		
C	C1	Position change with the location of dredger and the silt curtain at grab in 4 orthogonal directions from the silt curtain at grab as agreed with the Engineer	
	C2		
	C3		
	C5		

Interpretation of monitoring results

5.2 The monitoring data and graphical presentations of the monitoring results of water quality surveillance system are shown in **Appendix F.**

5.3 The Action and Limit Levels for water quality surveillance system were derived from 120% and 130% of upstream control station's turbidity and SS in depth average at the same tide of the same day with reference to the established way to set the water quality assessment criteria for a monitoring programme in accordance with the Guidelines for Development Projects in Hong Kong issued by EPD.

5.4 The Action and Limit Levels for water quality surveillance system were independent to the water quality monitoring works as required under the Environmental Permit and EM&A Manual.

5.5 All impact water quality monitoring results at different impact stations of water quality surveillance system were compared with Action and Limit Levels for water quality surveillance system.

5.6 Based on the graphical presentation of monitoring results shown in **Appendix F**, conclusion of the water quality surveillance system can be draw as follows:

- Results of turbidity and suspended solids at Set B and C monitoring stations were below the Action Level for water quality surveillance system except the results listed as below were above the Action Level for water quality surveillance system. The investigation was carried out.

For the results above the Action Level

- Results of turbidity at B2 and B4 on 14 October 2015
- Results of suspended solids at B2 on 14 October

- According to the investigation, the exceedances are considered not related to the Project works base on the following reasons:
  - Base on the site observation on 14 October 2015 during monitoring, no dispersion of sediment from hopper barge and no dispersion of sediment from the dredging area due to dredging operation to the area outside the site boundary was observed.
  - The daily and hourly dredging rate on 14 October 2015 was not exceed the dredging rate as stipulated in the EP requirement.
  - The SS and turbidity results at 3 WSD intakes (i.e. WSD 9, 10 and 17) on 14 October 2015 were below the Action and Limit Levels for water quality monitoring.

- In general, no significant rising of SS and turbidity from the dredging area to the control points, water quality impact due to the dredging works to the area outside the site boundary was not anticipated.

6 ENVIRONMENTAL SITE INSPECTION

Site Audits

6.1 Site audits were carried out by ET on weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in **Appendix I**.

6.2 Site audits for the Project were conducted on 6th, 15th, 22nd and 28th October 2015 by ET with the representative of ER and the Contractor in the reporting month. A joint site audit with the representative of IEC, ER, the Contractor and the ET was carried out on 22nd October 2015. The details of observations during site audit are summarized in **Table 6.1**.

Implementation Status of Environmental Mitigation Measures

6.3 According to the EIA Study Report, Environmental Permit and the EM&A Manual, the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An updated summary of the EMIS is provided in **Appendix J**.

6.4 Closed grab dredger was used for dredging works to minimize release of sediment and other contaminants during dredging.

6.5 No more than two dredgers were used at the same time during the dredging and the total maximum dredging rate was not exceed 4,000m^3 per day and 334m^3 per hour.

6.6 Silt curtain was installed around the dredgers during the dredging operation.

6.7 Silt screen was installed at the Water Supplies Department's flushing water intakes at Cha Kwo Ling, Quarry Bay and Tai Wan.

6.8 Regular maintenance of the silt screens and refuse collection was performed at the silt screens on daily basis.

6.9 During site inspections in the reporting month, no non-conformance was identified. The observations and recommendations made during the audit sessions are summarized in **Table 6.1**.

Table 6.1 Observations and Recommendations of Site Audit

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality	6 October 2015	Clear the sand accumulated on the ground near the drip tray to prevent muddy runoff generation. (Area 2)	Rectification/improvement was observed during the follow-up audit session on 15 October 2015.
Air Quality	N/A(1)	N/A(1)	N/A(1)
Noise	N/A(1)	N/A(1)	N/A(1)
Waste / Chemical Management	29 September 2015	Chemical container should be properly placed on drip tray.	Rectification/improvement was observed during the follow-up audit session on 6 October 2015.
	28 October 2015	Chemical label should be provided for chemical containers stored on the dredger.	Follow up action will be reported in the next reporting month.
Cultural Heritage Measures	N/A(1)	N/A(1)	N/A(1)
Permits/Licences	N/A(1)	N/A(1)	N/A(1)

Parameters	Date	Observations and Recommendations	Follow-up
Other	N/A(1)	N/A(1)	N/A(1)

Remark: N/A(1) - No major environmental deficiency was identified during the site inspection in the reporting month.

Advice on the Solid and Liquid Waste Management Status

6.10 According to the Contractor, marine sediment (Type 1 – Open Sea Disposal, and Type 1 Open Sea Disposal (Dedicated Site) and Type 2 – Confined Marine Disposal) was generated and disposed during the reporting month.

6.11 The amount of marine sediment under the Project during the reporting month is shown in **Table 6.2**.

Table 6.2 Summary of Marine Sediment in Reporting Month

Waste Type	Quantity in the Reporting Month, m^3(Bulk Volume)	Cumulative-to-Date m^3(Bulk Volume)	Disposal / Dumping Ground
Marine Sediment (Type1 – Open Sea Disposal)	41,500	266,500	East of Sha Chau
Marine Sediment (Type 1 Open Sea Disposal (Dedicated Site) and Type 2 – Confined Marine Disposal)	8,500	94,300	The South of Brothers

7 ENVIRONMENTAL NON-CONFORMANCE (EXCEEDANCES)

Summary of Exceedances

7.1 Summary of exceedance is provided in **Appendix H**.

7.2 No Action/Limit Level exceedance was recorded for water quality.

Summary of Environmental Complaint

7.3 No environmental related complaint was received in the reporting month. The Complaint Log is attached in **Appendix K**.

Summary of Notification of Summons and Successful Prosecution

7.4 There was no prosecution or notification of summons received since the Project commencement.

8 FUTURE KEY ISSUES

Key Issues in the Coming Month

8.1 Major site activities for the coming reporting month will include:

(a) Dredging works

(b) Sorting and breaking of C&D Materials for further disposal off site

(c) Off-site disposal of C&D Materials

(d) Refuse collection at Cha Kwo Ling WSD Flushing Water Intakes

(e) Maintenance of silt curtains & silt screen

Monitoring Schedule for the Next Month

8.2 The tentative water quality monitoring schedule for the next month is shown in **Appendix D**.

Construction Programme for the Next Month

8.3 A tentative construction programme is provided in **Appendix A**.

9 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

9.1 The Environmental Monitoring and Audit (EM&A) Report presents the EM&A works undertaken in October 2015 in accordance with EM&A Manual.

9.2 No Action/Limit Level exceedance was recorded for water quality.

9.3 Environmental site inspection was conducted on 6th, 15th, 22nd and 28th October 2015 by ET in the reporting month. All deficiencies identified during the site inspection have already rectified / improved during the follow-up audit session.

9.4 There were no environmental complaint, no notification of summons and successful prosecution received.

9.5 The ET will keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Recommendations

9.6 According to the environmental audit performed in the reporting month, the following recommendations were made:

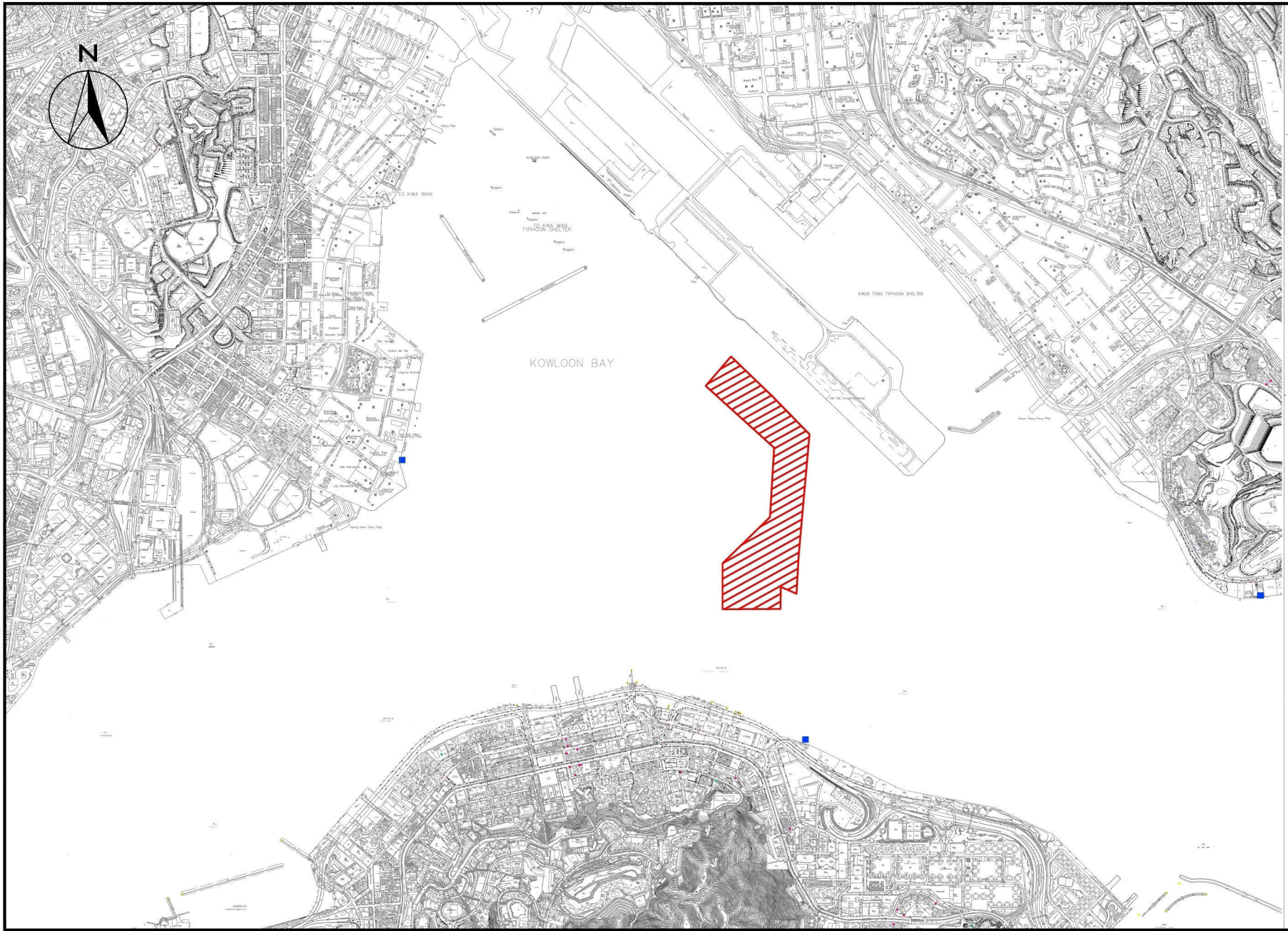
Water Quality

- Regularly check and maintenance should be provided for the silt curtain / screen throughout the dredging period.
- To clear the floating refuse at the silt screen at WSD flushing water intake regularly.
- The sand accumulated on the site area should be cleared to prevent muddy runoff generation.

Waste / Chemical Management

- Chemical containers stored within the site area should be properly labelled.

FIGURE(S)



LEGEND

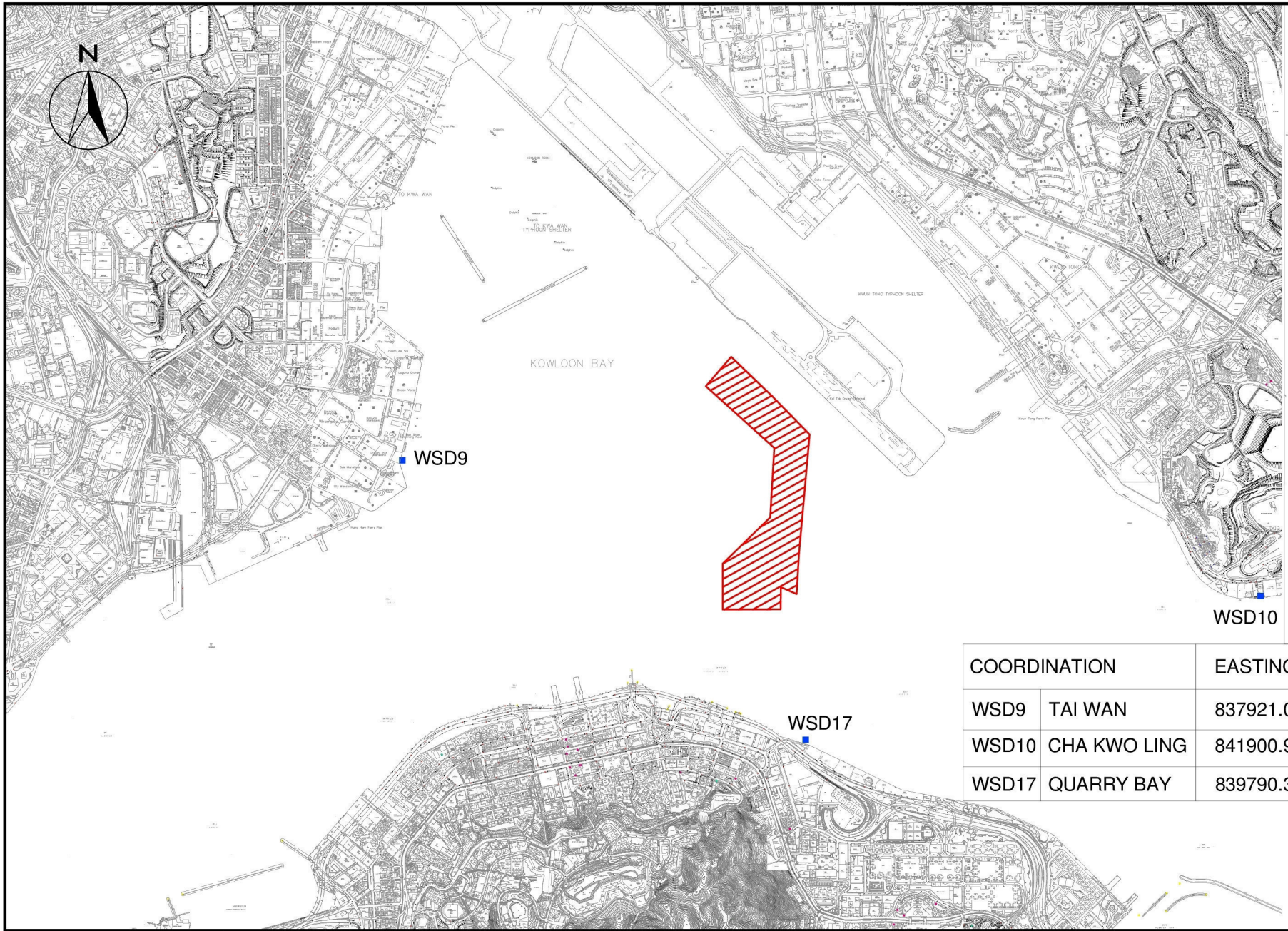
DREDGING AREA

CINOTECH
Cinotech Consultants Limited

CONTRACT NO. KL/2013/01 - SITE FORMATION FOR KAI TAK CRUISE TERMINAL DEVELOPMENT - REMAINING WORKS

SITE LAYOUT PLAN

SCALE	1:25000@A4	DATE	JUN 15
CHECK	IT	DRAWN	JW
JOB No.	MA15011	FIGURE NO. 1	REV -



LEGEND

- DREDGING AREA
- WATER QUALITY MONITORING STATION

COORDINATION		EASTING (m)	NORTHING (m)
WSD9	TAI WAN	837921.0	818330.0
WSD10	CHA KWO LING	841900.9	817700.1
WSD17	QUARRY BAY	839790.3	817032.2

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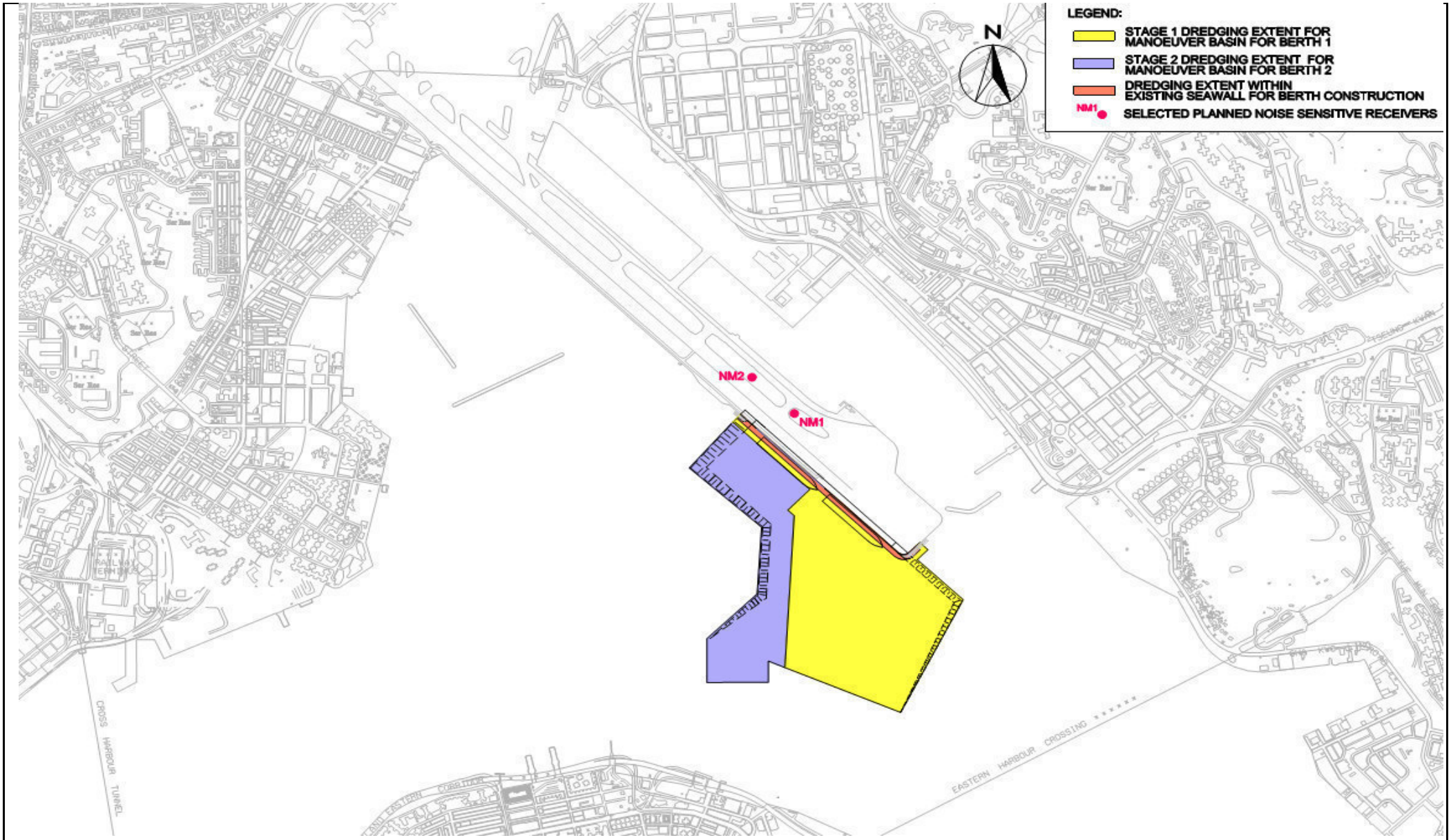
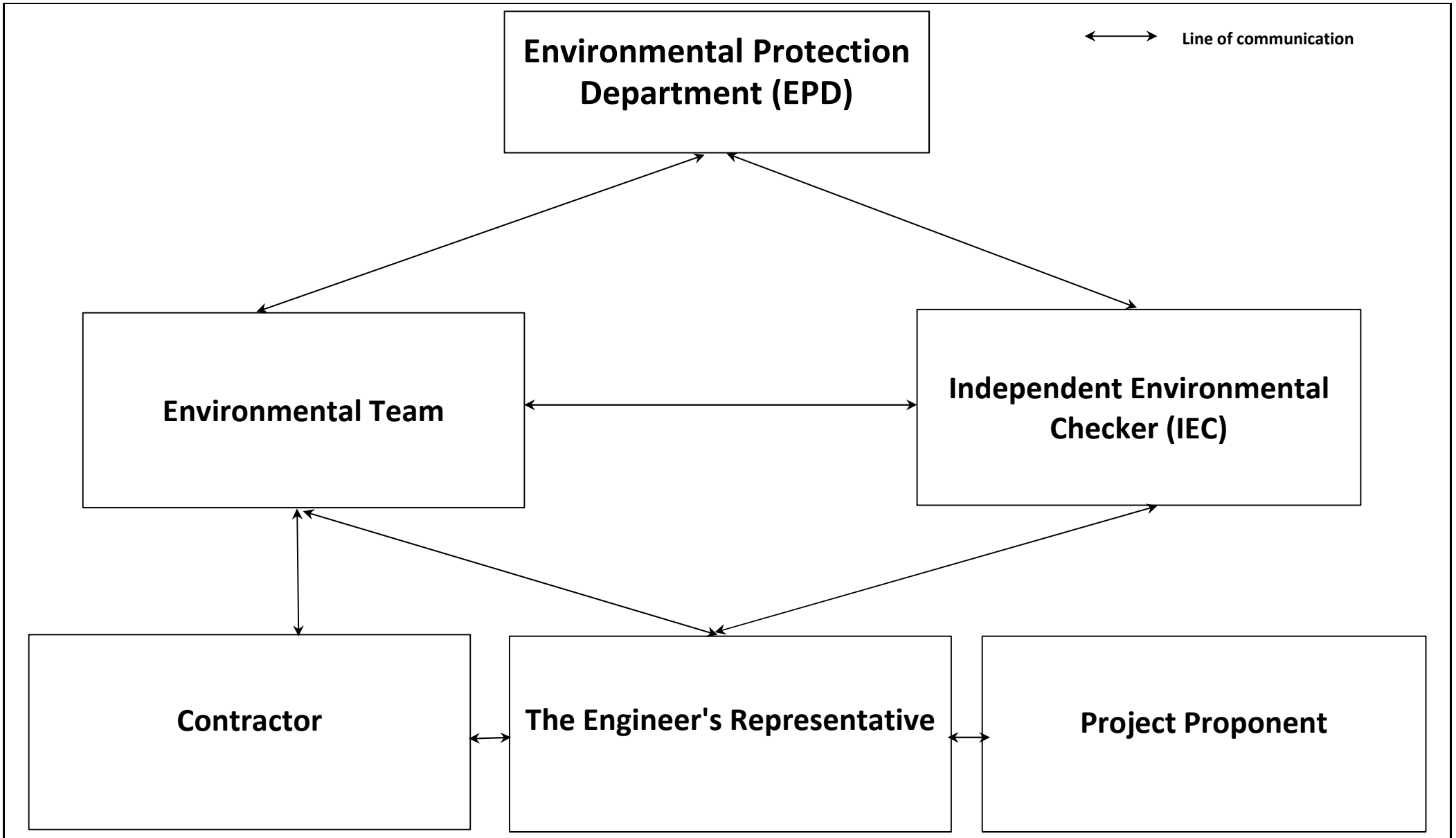
CONTRACT NO. KL/2013/01 - SITE FORMATION FOR KAI TAK CRUISE TERMINAL DEVELOPMENT - REMAINING WORKS

LOCATION OF WATER QUALITY MONITORING STATIONS

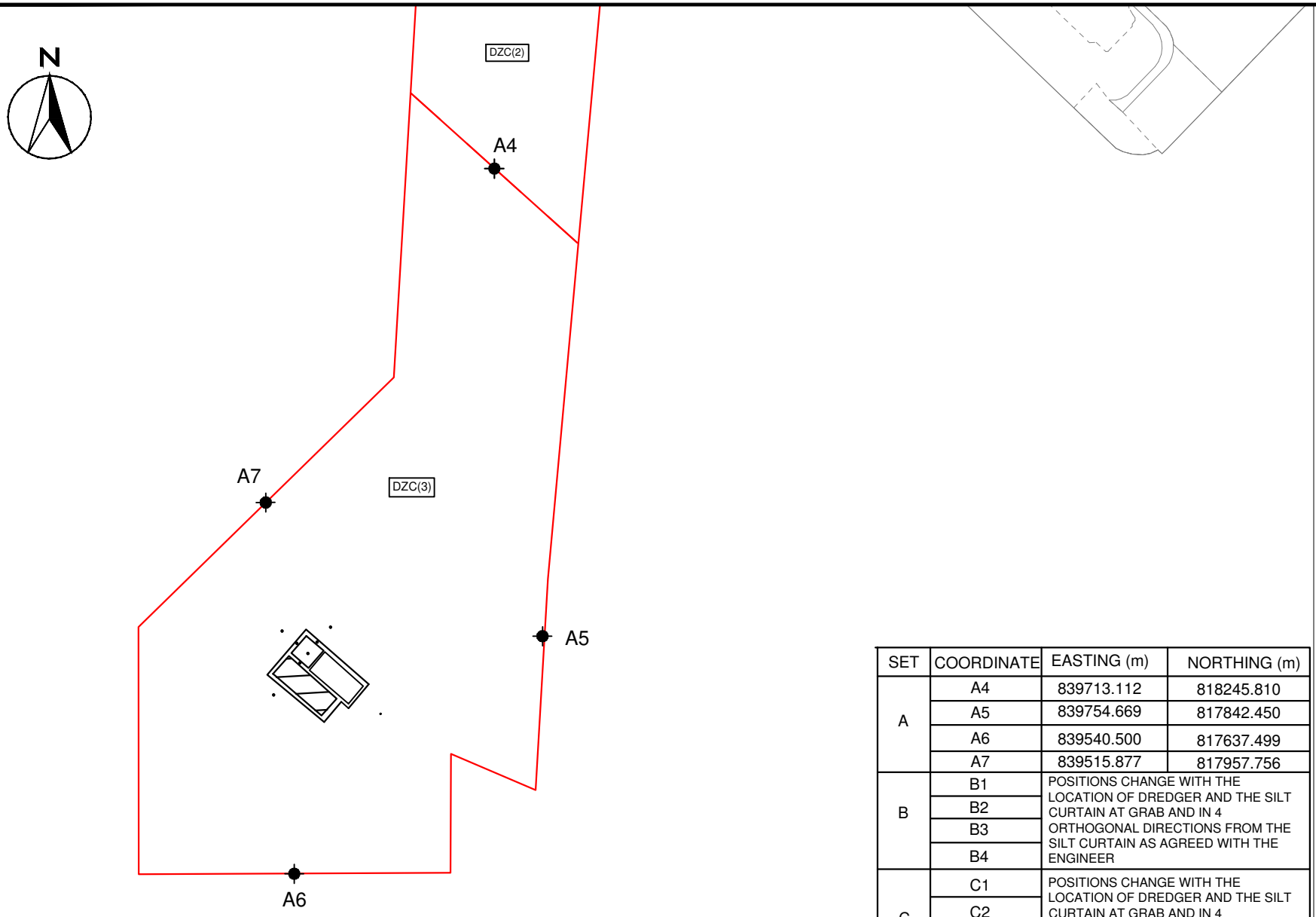
SCALE	1:25000@A4	DATE	JUN 15
CHECK	IT	DRAWN	JW
JOB No.	MA15011	FIGURE NO. 2	REV -



Title Contract No. KL/2013/01 Site Formation for Kai Tak Cruise Terminal Development - Remaining Works Planned Noise Monitoring Stations during Construction Phase	Scale N.T.S	Proposa No. MA15011	CINOTECH
	Date Apr-15	Figure 3	



Title	Scale	Proposa	
Contract No. KL/2013/01 Site Formation for Kai Tak Cruise Terminal Development - Remaining Works	N.T.S	No.	MA15011
Project Organisation for Environmental Works	Date Apr-15	Figure 4	CINOTECH



SET	COORDINATE	EASTING (m)	NORTHING (m)
A	A4	839713.112	818245.810
	A5	839754.669	817842.450
	A6	839540.500	817637.499
	A7	839515.877	817957.756
B	B1	POSITIONS CHANGE WITH THE LOCATION OF DREDGER AND THE SILT CURTAIN AT GRAB AND IN 4 ORTHOGONAL DIRECTIONS FROM THE SILT CURTAIN AS AGREED WITH THE ENGINEER	
	B2		
	B3		
	B4		
C	C1	POSITIONS CHANGE WITH THE LOCATION OF DREDGER AND THE SILT CURTAIN AT GRAB AND IN 4 ORTHOGONAL DIRECTIONS FROM THE SILT CURTAIN AS AGREED WITH THE ENGINEER	
	C2		
	C3		
	C5		

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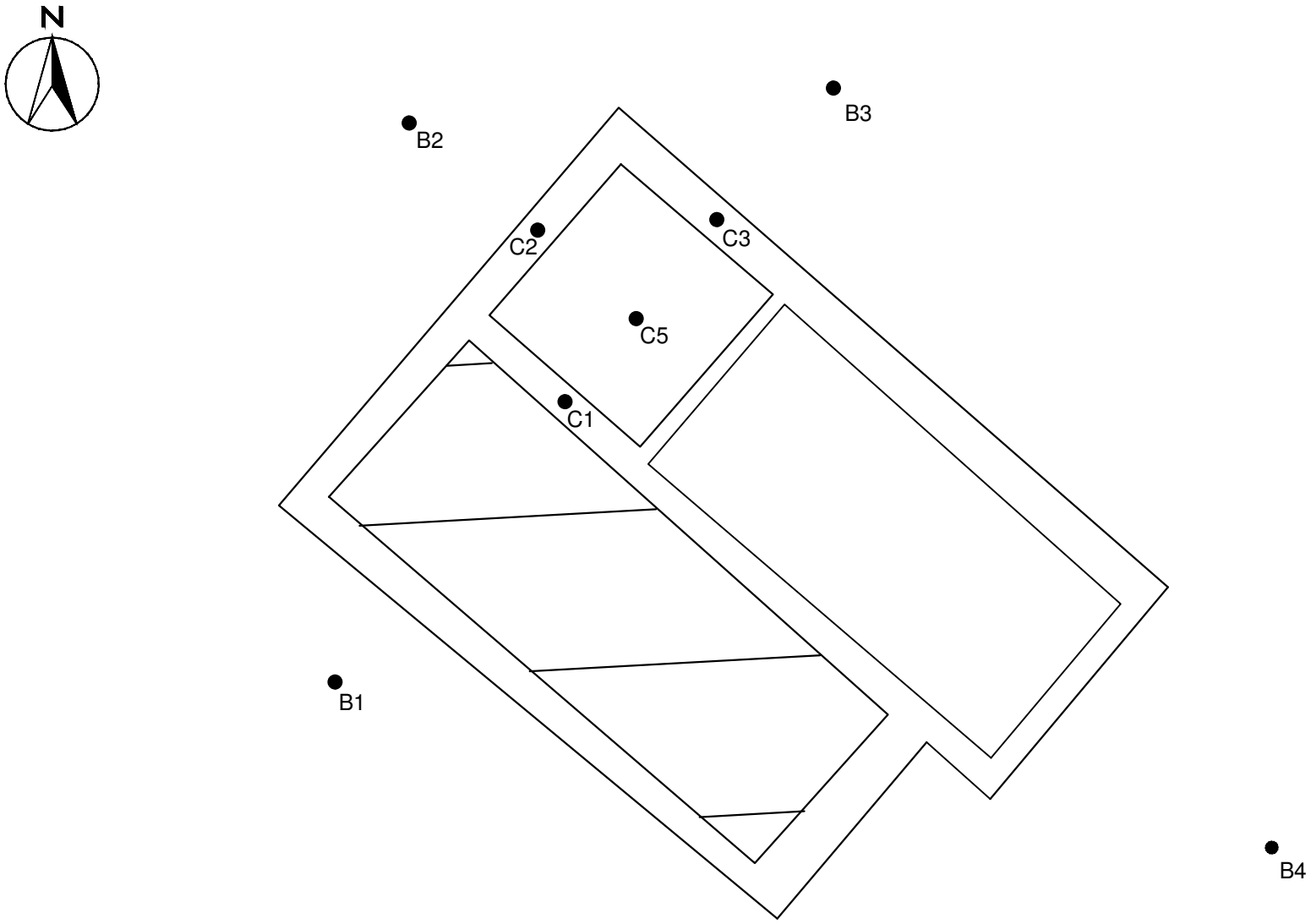
CONTRACT NO. KL/2013/01 - SITE FORMATION FOR KAI TAK CRUISE TERMINAL DEVELOPMENT - REMAINING WORKS

WATER QUALITY SURVEILLANCE SYSTEM - TYPICAL ARRANGEMENT

14 October 2015

SCALE	N.T.S.	DATE	OCT 15
CHECK	IT	DRAWN	KC
JOB No.	MA15011	FIGURE	5.1
		REV	-



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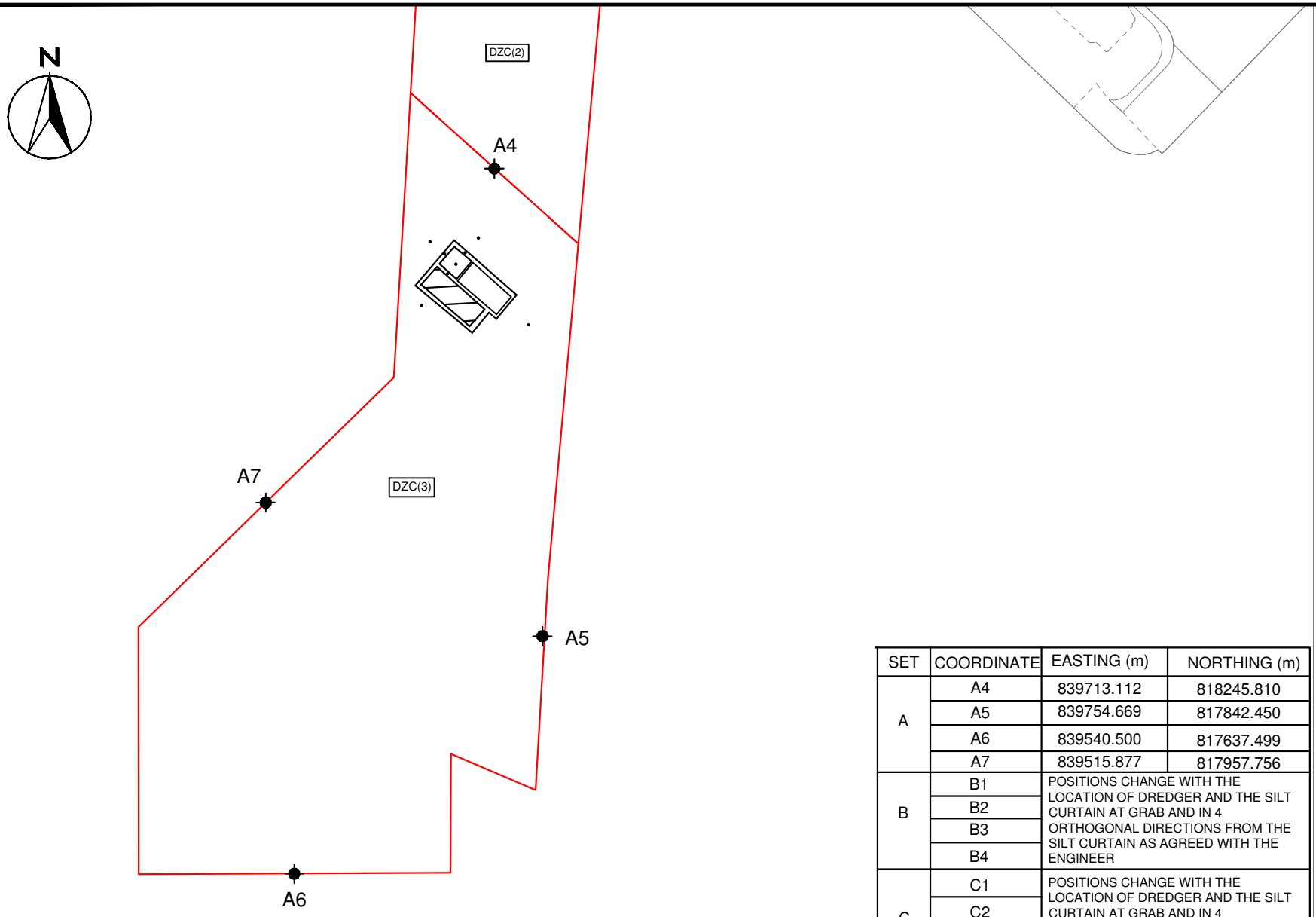
CONTRACT NO. KL/2013/01 - SITE FORMATION FOR KAI TAK CRUISE TERMINAL DEVELOPMENT - REMAINING WORKS

LOCATION OF WATER QUALITY MONITORING STATION FOR WATER QUALITY SURVEILLANCE SYSTEM - 14 October 2015

SCALE	N.T.S.	DATE	OCT 15
CHECK	IT	DRAWN	KC
JOB No.	MA15011	FIGURE	5.2
		REV	-



LEGEND

- SILT CURTAIN(S) AT GRAB
- HOPPER BARGE
- DREDGER
- SILT CURTAIN (SURROUNDING THE DREDGER)

SET	COORDINATE	EASTING (m)	NORTHING (m)
A	A4	839713.112	818245.810
	A5	839754.669	817842.450
	A6	839540.500	817637.499
	A7	839515.877	817957.756
B	B1	POSITIONS CHANGE WITH THE LOCATION OF DREDGER AND THE SILT CURTAIN AT GRAB AND IN 4 ORTHOGONAL DIRECTIONS FROM THE SILT CURTAIN AS AGREED WITH THE ENGINEER	
	B2		
	B3		
	B4		
C	C1	POSITIONS CHANGE WITH THE LOCATION OF DREDGER AND THE SILT CURTAIN AT GRAB AND IN 4 ORTHOGONAL DIRECTIONS FROM THE SILT CURTAIN AS AGREED WITH THE ENGINEER	
	C2		
	C3		
	C5		

CINOTECH
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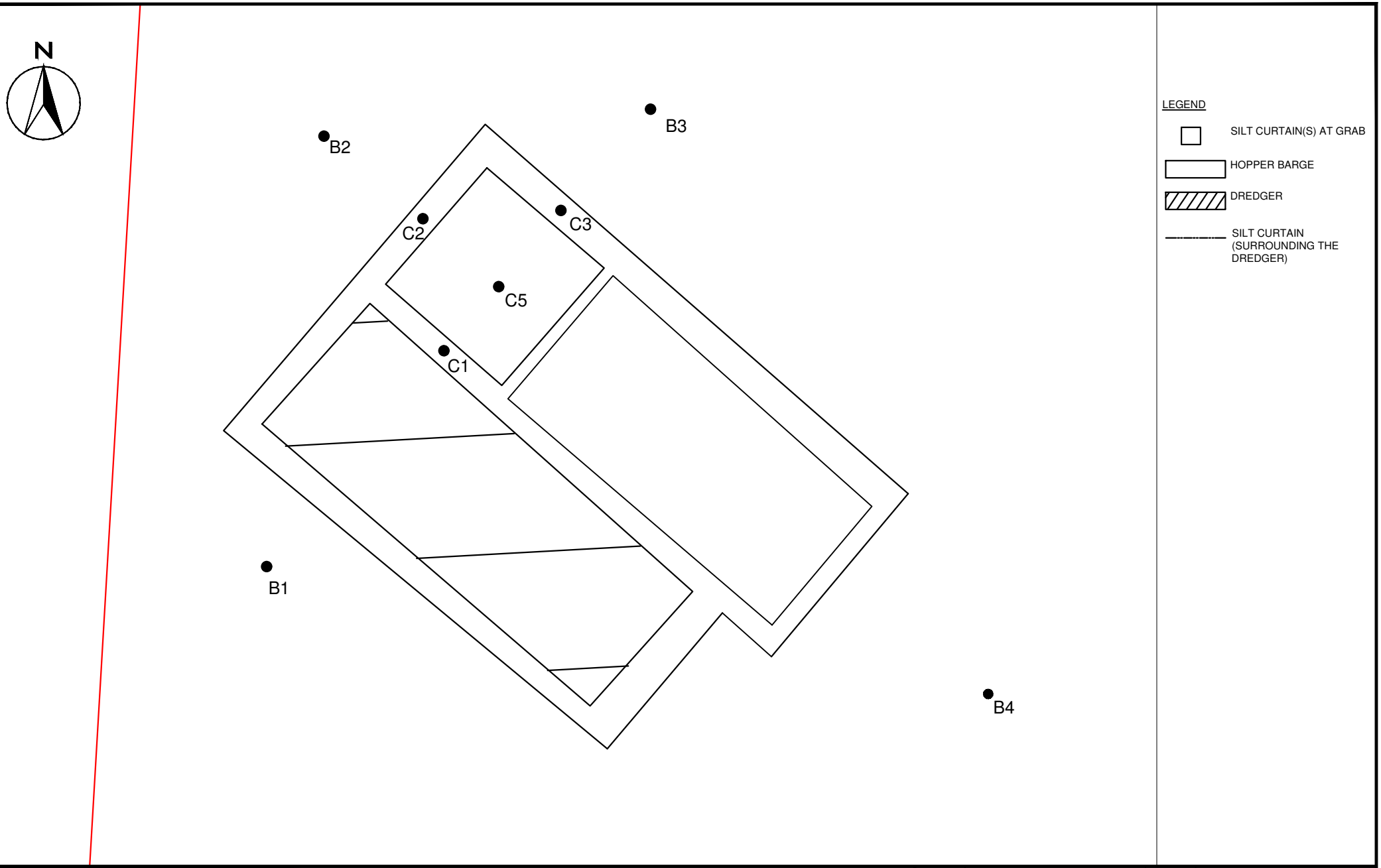
CONTRACT NO. KL/2013/01 - SITE FORMATION FOR KAI TAK CRUISE TERMINAL DEVELOPMENT - REMAINING WORKS

WATER QUALITY SURVEILLANCE SYSTEM - TYPICAL ARRANGEMENT

28 October 2015

SCALE	N.T.S.	DATE	OCT 15
CHECK	IT	DRAWN	KC
JOB No.	MA15011	FIGURE	5.3
		REV	-



CINOTECH
Cinotech Consultants Limited

CONTRACT NO. KL/2013/01 - SITE FORMATION FOR KAI TAK CRUISE TERMINAL DEVELOPMENT - REMAINING WORKS

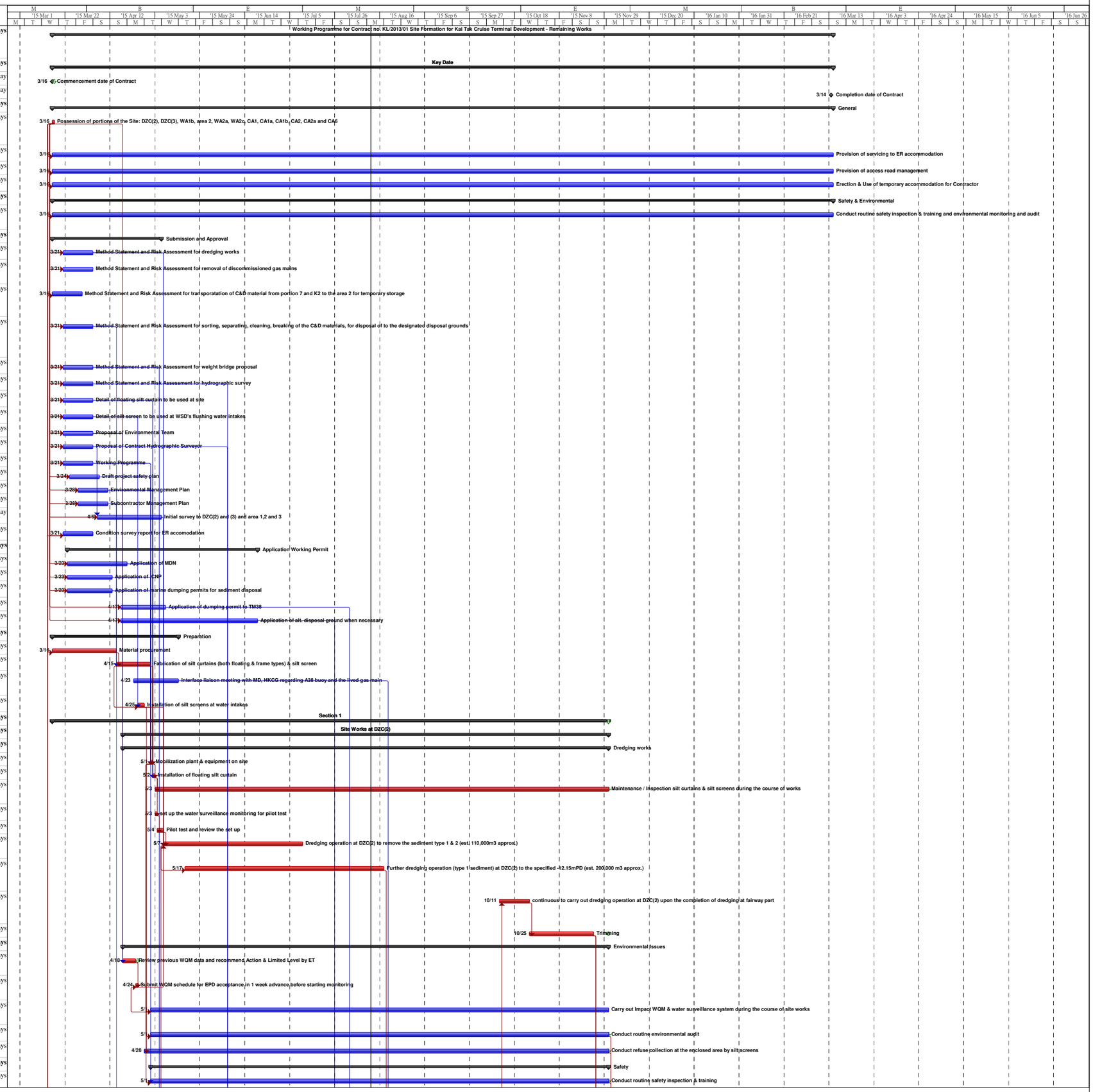
LOCATION OF WATER QUALITY MONITORING STATION FOR WATER QUALITY SURVEILLANCE SYSTEM - 28 October 2015

SCALE	N.T.S.	DATE	OCT 15
CHECK	IT	DRAWN	KC
JOB No.	MA15011	FIGURE	5.4
		REV	-

APPENDIX A
CONSTRUCTION PROGRAMME

Contract No. : KL/2013/01
Contract Title : Site Formation for Kai Tak Cruise Terminal Development - Remaining Works

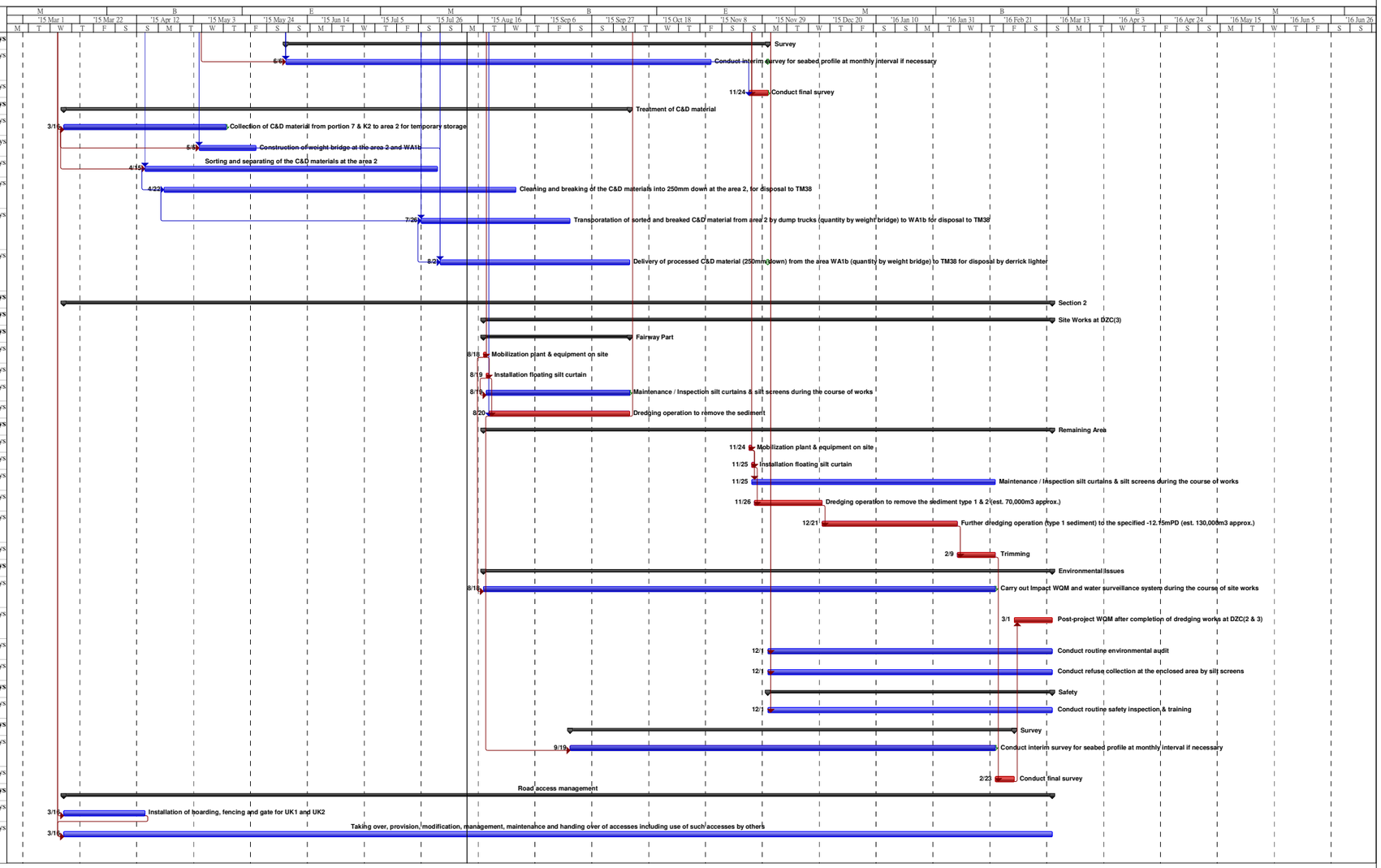
New ID	Task Name	Duration	Early Start	Early Finish	Late Start	Late Finish	Free Slack	Total Slack
1	**Working Programme for Contract no. KL/2013/01 Site Formation for Kai Tak Cruise Terminal Development - Remaining Works**	**365 days**	**2015 March 16**	**2016 March 14**	**2015 March 16**	**2016 March 14**	**0 days**	**0 days**
2	**Key Date**	**365 days**	**2015 March 16**	**2016 March 14**	**2015 March 16**	**2016 March 14**	**0 days**	**0 days**
3	Commencement date of Contract	0 days	2015 March 16	2015 March 16	2015 March 16	2015 March 16	1 day	1 day
4	Completion date of Contract	0 days	2016 March 14	2016 March 14	2016 March 14	2016 March 14	1 day	1 day
5	**General**	**365 days**	**2015 March 16**	**2016 March 14**	**2015 March 16**	**2016 March 14**	**0 days**	**0 days**
6	Possession of portions of the Site: DZC(2), DZC(3), WA1b, area 2, WA2a, WA2e, CA1, CA1a, CA1b, CA2, CA2a and CA6	1 day	2015 March 16	2015 March 16	2015 March 16	2015 March 16	0 days	0 days
7	Provision of servicing to ER accommodation	365 days	2015 March 16	2016 March 14	2015 March 16	2016 March 14	0 days	0 days
8	Provision of access road management	365 days	2015 March 16	2016 March 14	2015 March 16	2016 March 14	0 days	0 days
9	Erection & Use of temporary accommodation for Contractor	365 days	2015 March 16	2016 March 14	2015 March 16	2016 March 14	0 days	0 days
10	**Safety & Environmental**	**365 days**	**2015 March 16**	**2016 March 14**	**2015 March 16**	**2016 March 14**	**0 days**	**0 days**
11	Conduct routine safety inspection & training and environmental monitoring and audit	365 days	2015 March 16	2016 March 14	2015 March 16	2016 March 14	0 days	0 days
12	**Submission and Approval**	**51 days**	**2015 March 16**	**2015 May 5**	**2015 March 16**	**2016 March 14**	**0 days**	**0 days**
13	Method Statement and Risk Assessment for dredging works	14 days	2015 March 21	2015 April 3	2015 April 23	2015 May 6	33 days	33 days
14	Method Statement and Risk Assessment for removal of discommissioned gas mains	14 days	2015 March 21	2015 April 3	2016 March 1	2016 March 14	346 days	346 days
15	Method Statement and Risk Assessment for transporatation of C&D material from portion 7 and K2 to the area 2 for temporary storage	14 days	2015 March 16	2015 March 29	2015 March 16	2015 March 29	0 days	0 days
16	Method Statement and Risk Assessment for sorting, separating, cleaning, breaking of the C&D materials, for disposal of to the designated disposal grounds	14 days	2015 March 21	2015 April 3	2015 May 22	2015 June 4	11 days	62 days
17	Method Statement and Risk Assessment for weight bridge proposal	14 days	2015 March 21	2015 April 3	2015 August 18	2015 August 31	31 days	150 days
18	Method Statement and Risk Assessment for hydrographic survey	14 days	2015 March 21	2015 April 3	2015 June 6	2015 June 19	63 days	77 days
19	Detail of floating silt curtain to be used at site	14 days	2015 March 21	2015 April 3	2015 April 18	2015 May 1	28 days	28 days
20	Detail of silt screen to be used at WSD's flushing water intakes	14 days	2015 March 21	2015 April 3	2015 April 11	2015 April 24	21 days	21 days
21	Proposal of Environmental Team	14 days	2015 March 21	2015 April 3	2015 March 28	2015 April 10	7 days	7 days
22	Proposal of Contract Hydrographic Surveyor	14 days	2015 March 21	2015 April 3	2015 March 24	2015 April 6	2 days	3 days
23	Working Programme	14 days	2015 March 21	2015 April 3	2015 April 17	2015 April 30	27 days	27 days
24	Draft project safety plan	14 days	2015 March 24	2015 April 6	2015 April 17	2015 April 30	24 days	24 days
25	Environmental Management Plan	14 days	2015 March 28	2015 April 10	2015 April 18	2015 May 1	21 days	21 days
26	Subcontractor Management Plan	14 days	2015 March 28	2015 April 10	2015 April 1	2015 April 14	4 days	4 days
27	Initial survey to DZC(2) and (3) and area 1,2 and 3	30 days	2015 April 6	2015 May 5	2015 April 7	2015 May 6	1 day	1 day
28	Condition survey report for ER accomodation	14 days	2015 March 21	2015 April 3	2015 March 21	2015 April 3	0 days	0 days
29	**Application Working Permit**	**89 days**	**2015 March 23**	**2015 June 19**	**2015 April 3**	**2015 September 21**	**11 days**	**11 days**
30	Application of MDN	28 days	2015 March 23	2015 April 19	2015 April 3	2015 April 30	11 days	11 days
31	Application of CNP	21 days	2015 March 23	2015 April 12	2015 April 10	2015 April 30	18 days	18 days
32	Application of marine dumping permits for sediment disposal	21 days	2015 March 23	2015 April 12	2015 April 10	2015 April 30	18 days	18 days
33	Application of dumping permit to TM38	21 days	2015 April 17	2015 May 7	2015 September 1	2015 September 21	86 days	137 days
34	Application of alt. disposal ground when necessary	64 days	2015 April 17	2015 June 19	2015 July 13	2015 September 14	36 days	87 days
35	**Preparation**	**59 days**	**2015 March 16**	**2015 May 13**	**2015 March 16**	**2015 August 19**	**0 days**	**0 days**
36	Material procurement	30 days	2015 March 16	2015 April 14	2015 March 16	2015 April 14	0 days	0 days
37	Fabrication of silt curtains (both floating & frame types) & silt screen	16 days	2015 April 15	2015 April 30	2015 April 15	2015 April 30	0 days	0 days
38	Interface liaison meeting with MD, HKCG regarding A38 buoy and the lived gas main	21 days	2015 April 23	2015 May 13	2015 July 30	2015 August 19	98 days	98 days
39	Installation of silt screens at water intakes	3 days	2015 April 25	2015 April 27	2015 April 25	2015 April 27	0 days	0 days
40	**Section 1**	**260 days**	**2015 March 16**	**2015 November 30**	**2015 March 16**	**2015 November 30**	**0 days**	**0 days**
41	**Site Works at DZC(2)**	**227 days**	**2015 April 18**	**2015 November 30**	**2015 April 18**	**2015 November 30**	**0 days**	**0 days**
42	**Dredging works**	**227 days**	**2015 April 18**	**2015 November 30**	**2015 April 18**	**2015 November 30**	**0 days**	**0 days**
43	Mobilization plant & equipment on site	1 day	2015 May 1	2015 May 1	2015 May 1	2015 May 1	0 days	0 days
44	Installation of floating silt curtain	1 day	2015 May 2	2015 May 2	2015 May 2	2015 May 2	0 days	0 days
45	Maintenance / Inspection silt curtains & silt screens during the course of works	212 days	2015 May 3	2015 November 30	2015 May 3	2015 November 30	0 days	0 days
46	set up the water surveillance monitoring for pilot test	1 day	2015 May 3	2015 May 3	2015 May 3	2015 May 3	0 days	0 days
47	Pilot test and review the set up	3 days	2015 May 4	2015 May 6	2015 May 4	2015 May 6	0 days	0 days
48	Dredging operation at DZC(2) to remove the sediment type 1 & 2 (est. 110,000m3 approx.)	65 days	2015 May 7	2015 July 10	2015 May 7	2015 July 10	0 days	0 days
49	Further dredging operation (type 1 sediment) at DZC(2) to the specified -12.15mPD (est. 200,000 m3 approx.)	93 days	2015 May 17	2015 August 17	2015 May 17	2015 August 17	0 days	0 days
50	continuous to carry out dredging operation at DZC(2) upon the completion of dredging at fairway part	14 days	2015 October 11	2015 October 24	2015 October 11	2015 October 24	0 days	0 days
51	Trimming	30 days	2015 October 25	2015 November 23	2015 October 25	2015 November 23	0 days	0 days
52	**Environmental Issues**	**227 days**	**2015 April 18**	**2015 November 30**	**2015 April 18**	**2015 November 30**	**0 days**	**0 days**
53	Review previous WQM data and recommend Action & Limited Level by ET	6 days	2015 April 18	2015 April 23	2015 April 18	2015 April 23	0 days	0 days
54	Submit WQM schedule for EPD acceptance in 1 week advance before starting monitoring	1 day	2015 April 24	2015 April 24	2015 April 24	2015 April 24	0 days	0 days
55	Carry out Impact WQM & water surveillance system during the course of site works	214 days	2015 May 1	2015 November 30	2015 May 1	2015 November 30	0 days	0 days
56	Conduct routine environmental audit	214 days	2015 May 1	2015 November 30	2015 May 1	2015 November 30	0 days	0 days
57	Conduct refuse collection at the enclosed area by silt screens	217 days	2015 April 28	2015 November 30	2015 April 28	2015 November 30	0 days	0 days
58	**Safety**	**214 days**	**2015 May 1**	**2015 November 30**	**2015 May 1**	**2015 November 30**	**0 days**	**0 days**
59	Conduct routine safety inspection & training	214 days	2015 May 1	2015 November 30	2015 May 1	2015 November 30	0 days	0 days



Working Programme Ver. 00000
Date:31-July-2015

Critical Split · Task · Milestone · Summary · External Milestone · Inactive Task · Inactive Milestone · Inactive Summary · Manual Task · Duration-only · Manual Summary Rollup · Manual Summary · Start-only · Finish-only · Deadline · Critical

New ID	Task Name	Duration	Early Start	Early Finish	Late Start	Late Finish	Free Slack	Total Slack
60	**Survey**	**178 days**	**2015 June 6**	**2015 November 30**	**2015 June 20**	**2015 November 30**	**0 days**	**0 days**
61	Conduct interim survey for seabed profile at monthly interval if necessary	157 days	2015 June 6	2015 November 9	2015 June 20	2015 November 23	14 days	14 days
62	Conduct final survey	7 days	2015 November 24	2015 November 30	2015 November 24	2015 November 30	0 days	0 days
63	**Treatment of C&D material**	**209 days**	**2015 March 16**	**2015 October 10**	**2015 March 16**	**2015 November 30**	**0 days**	**0 days**
64	Collection of C&D material from portion 7 & K2 to area 2 for temporary storage	60 days	2015 March 16	2015 May 14	2015 March 16	2015 May 14	0 days	0 days
65	Construction of weight bridge at the area 2 and WA1b	21 days	2015 May 5	2015 May 25	2015 September 1	2015 September 21	68 days	119 days
66	Sorting and separating of the C&D materials at the area 2	108 days	2015 April 15	2015 July 31	2015 June 5	2015 September 20	0 days	51 days
67	Cleaning and breaking of the C&D materials into 250mm down at the area 2, for disposal to TM38	130 days	2015 April 22	2015 August 29	2015 June 12	2015 October 19	0 days	51 days
68	Transporatation of sorted and breaked C&D material from area 2 by dump trucks (quantity by weight bridge) to WA1b for disposal to TM38	55 days	2015 July 26	2015 September 18	2015 September 15	2015 November 8	0 days	51 days
69	Delivery of processed C&D material (250mm down) from the area WA1b (quantity by weight bridge) to TM38 for disposal by derrick lighter	70 days	2015 August 2	2015 October 10	2015 September 22	2015 November 30	51 days	51 days
70	**Section 2**	**365 days**	**2015 March 16**	**2016 March 14**	**2015 March 16**	**2016 March 14**	**0 days**	**0 days**
71	**Site Works at DZC(3)**	**210 days**	**2015 August 18**	**2016 March 14**	**2015 August 18**	**2016 March 14**	**0 days**	**0 days**
72	**Fairway Part**	**54 days**	**2015 August 18**	**2015 October 10**	**2015 August 18**	**2015 October 10**	**0 days**	**0 days**
73	Mobilization plant & equipment on site	1 day	2015 August 18	2015 August 18	2015 August 18	2015 August 18	0 days	0 days
74	Installation floating silt curtain	1 day	2015 August 19	2015 August 19	2015 August 19	2015 August 19	0 days	0 days
75	Maintenance / Inspection silt curtains & silt screens during the course of works	53 days	2015 August 19	2015 October 10	2015 August 19	2015 October 10	0 days	0 days
76	Dredging operation to remove the sediment	52 days	2015 August 20	2015 October 10	2015 August 20	2015 October 10	0 days	0 days
77	**Remaining Area**	**210 days**	**2015 August 18**	**2016 March 14**	**2015 August 18**	**2016 March 14**	**0 days**	**0 days**
78	Mobilization plant & equipment on site	1 day	2015 November 24	2015 November 24	2015 November 24	2015 November 24	0 days	0 days
79	Installation floating silt curtain	1 day	2015 November 25	2015 November 25	2015 November 25	2015 November 25	0 days	0 days
80	Maintenance / Inspection silt curtains & silt screens during the course of works	90 days	2015 November 25	2016 February 22	2015 December 16	2016 March 14	21 days	21 days
81	Dredging operation to remove the sediment type 1 & 2 (est. 70,000m3	25 days	2015 November 26	2015 December 20	2015 November 26	2015 December 20	0 days	0 days
82	Further dredging operation (type 1 sediment) to the specified -12.15mPD (est. 130,000m3 approx.)	50 days	2015 December 21	2016 February 8	2015 December 21	2016 February 8	0 days	0 days
83	Trimming	14 days	2016 February 9	2016 February 22	2016 February 9	2016 February 22	0 days	0 days
84	**Environmental Issues**	**210 days**	**2015 August 18**	**2016 March 14**	**2015 August 18**	**2016 March 14**	**0 days**	**0 days**
85	Carry out Impact WQM and water surveillance system during the course of site works	189 days	2015 August 18	2016 February 22	2015 August 18	2016 February 22	0 days	0 days
86	Post-project WQM after completion of dredging works at DZC(2 & 3)	14 days	2016 March 1	2016 March 14	2016 March 1	2016 March 14	0 days	0 days
87	Conduct routine environmental audit	105 days	2015 December 1	2016 March 14	2015 December 1	2016 March 14	0 days	0 days
88	Conduct refuse collection at the enclosed area by silt screens	105 days	2015 December 1	2016 March 14	2015 December 1	2016 March 14	0 days	0 days
89	**Safety**	**105 days**	**2015 December 1**	**2016 March 14**	**2015 December 1**	**2016 March 14**	**0 days**	**0 days**
90	Conduct routine safety inspection & training	105 days	2015 December 1	2016 March 14	2015 December 1	2016 March 14	0 days	0 days
91	**Survey**	**164 days**	**2015 September 19**	**2016 February 29**	**2015 September 19**	**2016 February 29**	**0 days**	**0 days**
92	Conduct interim survey for seabed profile at monthly interval if necessary	157 days	2015 September 19	2016 February 22	2015 September 19	2016 February 22	0 days	0 days
93	Conduct final survey	7 days	2016 February 23	2016 February 29	2016 February 23	2016 February 29	0 days	0 days
94	**Road access management**	**365 days**	**2015 March 16**	**2016 March 14**	**2015 March 16**	**2016 March 14**	**0 days**	**0 days**
95	Installation of hoarding, fencing and gate for UK1 and UK2	30 days	2015 March 16	2015 April 14	2015 March 16	2015 April 14	0 days	0 days
96	Taking over, provision, modification, management, maintenance and handing over of accesses including use of such accesses by others	365 days	2015 March 16	2016 March 14	2015 March 16	2016 March 14	0 days	0 days



APPENDIX B
ACTION AND LIMIT LEVELS

Appendix B - Action and Limit Levels

Action and Limit Levels for Water Quality Monitoring

Station	Turbidity (NTU)				Suspended Solid (mg/L)			
	Action Level		Limit Level		Action Level		Limit Level	
	Dry Season	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season
WSD9	5.6	7.0	10.6	13.4	10.2	12.8	10.8	13.5
WSD10	6.3	8.1	9.4	12.1	10.0	11.2	11.8	13.2
WSD17	10.0	12.9	15.3	19.7	13.2	14.7	15.3	17.0

APPENDIX C
COPIES OF CALIBRATION CERTIFCATES

WELLAB 匯力 Testing & Research

WELLAB LIMITED
Rms 816, 1516 & 1701, Technology Park,
18 On Lai Street, Shatin, N.T, Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: www.wellab.com.hk

TEST REPORT

APPLICANT: **Cinotech Consultants Limited**
Room 1710, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

ATTN: **Mr. W.K. Tang**

Test Report No.:	C/W/150721-1
Date of Issue:	2015-07-21
Date Received:	2015-07-21
Date Tested:	2015-07-21
Date Completed:	2015-07-21
Next Due Date:	2015-10-20
Page:	1 of 2

Certificate of Calibration

Item for calibration:

Description	: Multiparameter Water Quality Probe
Manufacturer	: Aquaread Ltd
Model No.	: AP-2000-D
Serial No.	: 135240520
Equipment No.	: W.18.04

Test conditions:

Room Temperature	: 23 degree Celsius
Relative Humidity	: 64 %

Test Specifications:

Dissolved Oxygen, Conductivity & Salinity Sensor,
1. Performance check against Winkler titration
2. Conductivity performance check with Potassium Chloride standard solution
3. Salinity performance check with Sodium Chloride standard solution

Turbidity Sensor, Batch: 12213
1. Calibration check with Formazin standard solution

pH / ORP electrode, Batch: 13504
1. Calibration check with standard pH buffer
2. Redox performance check with ZoBell's standard solution

Depth Meter
1. Calibration check at 1m water level depth

Methodologies:

1. Aquaprobe AP-2000 Manual
2. In-house method with reference to APHA and ISO standards
   Conductivity (APHA 20ed 2510), Salinity (APHA 20ed 2520B)
   Dissolved Oxygen (APHA 20ed 4500-O C), Turbidity (APHA 19ed 2130 B),
   pH (ISO 10523, Section 9.1 and APHA 19ed 4500-H+ B) ,
   Redox electrode (APHA 20ed 2580)

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
Laboratory Manager

WELLAB 匯力 Testing & Research

WELLAB LIMITED
Rms 816, 1516 & 1701, Technology Park,
18 On Lai Street, Shatin, N.T, Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: www.wellab.com.hk

TEST REPORT

Test Report No.:	C/W/150721-1
Date of Issue:	2015-07-21
Date Received:	2015-07-21
Date Tested:	2015-07-21
Date Completed:	2015-07-21
Next Due Date:	2015-10-20
Page:	2 of 2

Results:

1. Conductivity performance check

Specific Conductivity, µS/cm		Correction, µS/cm	Acceptable range
Instrument Reading	Theoretical Value		
1420	1420	0	1420 ± 20

2. Salinity Performance check

Salinity, ppt		Correction, ppt	Acceptable range
Instrument Reading	Theoretical Value		
30.0	30.0	0.0	30.0 ± 3

3. Dissolved Oxygen check

Oxygen level in water at 20°C	Dissolved Oxygen, mg O_2/L		Correction, mg O_2/L	Acceptable range
	D.O. Meter	Winkler Titration		
Saturated	9.1	9.1	0.0	± 0.2
Half-saturated	5.6	5.6	0.0	± 0.2
Zero	0.0	0.0	0.0	± 0.2

4. Turbidity check

Turbidity value in solution, NTU	Calibration Value, NTU	Correction, NTU	Acceptable range
0.00	0.00	0.00	0.00 ± 0.05
100	100	0	100 ± 5
1000	1000	0	1000 ± 100

5. pH Meter check

Test Parameters	Performance characteristic	Acceptable range
Liquid junction error ΔpH_j , pH unit	0.01	Less than 0.05
Shift on stirring ΔpH_s , pH unit	0.01	Less than 0.02
Noise ΔpH_n , pH unit	0.00	Less than 0.02

6. Redox Meter check

Redox, mV		Acceptable range
Instrument Reading	Theoretical Value	
228	229	229±10

7. Depth Meter check

Instrument Reading, m	Calibration Value, m	Correction, m	Acceptable range
1.0	1.00	0.00	1.00 ± 0.05

**********END OF REPORT**********

WELLAB 匯力 Testing & Research

WELLAB LIMITED
Rms 1516, 1701 & 1716, Technology Park,
18 On Lai Street, Shatin, N.T., Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: www.wellab.com.hk

TEST REPORT

APPLICANT: **Cinotech Consultants Limited**
Room 1710, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	C/W/151016-1
Date of Issue:	2015-10-16
Date Received:	2015-10-16
Date Tested:	2015-10-16
Date Completed:	2015-10-16
Next Due Date:	2016-01-15

ATTN: **Mr. W.K. Tang**

Certificate of Calibration

Item for calibration:

Description	: Multiparameter Water Quality Probe
Manufacturer	: Aquaread Ltd
Model No.	: AP-2000-D
Serial No.	: 135240520
Equipment No.	: W.18.04

Test conditions:

Room Temperature	: 25 degree Celsius
Relative Humidity	: 67 %

Test Specifications:

Dissolved Oxygen, Conductivity & Salinity Sensor,
1. Performance check against Winkler titration
2. Conductivity performance check with Potassium Chloride standard solution
3. Salinity performance check with Sodium Chloride standard solution

Turbidity Sensor, Batch: 12213
1. Calibration check with Formazin standard solution

pH / ORP electrode, Batch: 13504
1. Calibration check with standard pH buffer
2. Redox performance check with ZoBell's standard solution

Depth Meter
1. Calibration check at 1m water level depth

Methodologies:

1. Aquaprobe AP-2000 Manual
2. In-house method with reference to APHA and ISO standards
   Conductivity (APHA 20ed 2510), Salinity (APHA 20ed 2520B)
   Dissolved Oxygen (APHA 20ed 4500-O C), Turbidity (APHA 19ed 2130 B),
   pH (ISO 10523, Section 9.1 and APHA 19ed 4500-H+ B) ,
   Redox electrode (APHA 20ed 2580)

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Patrick Tse

PATRICK TSE
Laboratory Manager

WELLAB 匯力 Testing & Research

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TEST REPORT

Test Report No.:	C/W/151016-1
Date of Issue:	2015-10-16
Date Received:	2015-10-16
Date Tested:	2015-10-16
Date Completed:	2015-10-16
Next Due Date:	2016-01-15

Results:

1. Conductivity performance check

Specific Conductivity, µS/cm		Correction, µS/cm	Acceptable range
Instrument Reading	Theoretical Value		
1420	1420	0	1420 ± 20

2. Salinity Performance check

Salinity, ppt		Correction, ppt	Acceptable range
Instrument Reading	Theoretical Value		
30.0	30.0	0.0	30.0 ± 3

3. Dissolved Oxygen check

Oxygen level in water at 20°C	Dissolved Oxygen, mg O_2/L		Correction, mg O_2/L	Acceptable range
	D.O. Meter	Winkler Titration		
Saturated	9.1	9.1	0.0	± 0.2
Half-saturated	5.6	5.6	0.0	± 0.2
Zero	0.0	0.0	0.0	± 0.2

4. Turbidity check

Turbidity value in solution, NTU	Calibration Value, NTU	Correction, NTU	Acceptable range
0.00	0.00	0.00	0.00 ± 0.05
100	100	0	100 ± 5
1000	1000	0	1000 ± 100

5. pH Meter check

Test Parameters	Performance characteristic	Acceptable range
Liquid junction error ΔpH_j , pH unit	0.01	Less than 0.05
Shift on stirring ΔpH_s , pH unit	0.01	Less than 0.02
Noise ΔpH_n , pH unit	0.00	Less than 0.02

6. Redox Meter check

Redox, mV		Acceptable range
Instrument Reading	Theoretical Value	
228	229	229±10

7. Depth Meter check

Instrument Reading, m	Calibration Value, m	Correction, m	Acceptable range
1.0	1.00	0.00	1.00 ± 0.05

**********END OF REPORT**********

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TEST REPORT

APPLICANT: **Cinotech Consultants Limited**
Room 1710, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

ATTN: **Mr. W.K. Tang**

Test Report No.:	C/W/150721-2
Date of Issue:	2015-07-21
Date Received:	2015-07-21
Date Tested:	2015-07-21
Date Completed:	2015-07-21
Next Due Date:	2015-10-20
Page:	1 of 2

Certificate of Calibration

Item for calibration:

Description	: Multiparameter Water Quality Probe
Manufacturer	: Aquaread Ltd
Model No.	: AP-2000-D
Serial No.	: 128041320
Equipment No.	: W.18.09

Test conditions:

Room Temperature	: 23 degree Celsius
Relative Humidity	: 64 %

Test Specifications:

Dissolved Oxygen, Conductivity & Salinity Sensor,
1. Performance check against Winkler titration
2. Conductivity performance check with Potassium Chloride standard solution
3. Salinity performance check with Sodium Chloride standard solution

Turbidity Sensor, Batch: 12213
1. Calibration check with Formazin standard solution

pH / ORP electrode
1. Calibration check with standard pH buffer
2. Redox performance check with ZoBell's standard solution

Depth Meter
1. Calibration check at 1m water level depth

Methodologies:

1. Aquaprobe AP-2000 Manual
2. In-house method with reference to APHA and ISO standards
   Conductivity (APHA 20ed 2510), Salinity (APHA 20ed 2520B)
   Dissolved Oxygen (APHA 20ed 4500-O C), Turbidity (APHA 19ed 2130 B),
   pH (ISO 10523, Section 9.1 and APHA 19ed 4500-H+ B) ,
   Redox electrode (APHA 20ed 2580)

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
Laboratory Manager

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TEST REPORT

Test Report No.:	C/W/150721-2
Date of Issue:	2015-07-21
Date Received:	2015-07-21
Date Tested:	2015-07-21
Date Completed:	2015-07-21
Next Due Date:	2015-10-20

Results:

1. Conductivity performance check

Specific Conductivity, µS/cm		Correction, µS/cm	Acceptable range
Instrument Reading	Theoretical Value		
1420	1420	0	1420 ± 20

2. Salinity Performance check

Salinity, ppt		Correction, ppt	Acceptable range
Instrument Reading	Theoretical Value		
30.0	30.0	0.0	30.0 ± 3

3. Dissolved Oxygen check

Oxygen level in water at 20°C	Dissolved Oxygen, mg O_2/L		Correction, mg O_2/L	Acceptable range
	D.O. Meter	Winkler Titration		
Saturated	9.1	9.1	0.0	± 0.2
Half-saturated	5.6	5.6	0.0	± 0.2
Zero	0.0	0.0	0.0	± 0.2

4. Turbidity check

Turbidity value in solution, NTU	Calibration Value, NTU	Correction, NTU	Acceptable range
0.00	0.00	0.00	0.00 ± 0.05
100	100	0	100 ± 5
1000	1000	0	1000 ± 100

5. pH Meter check

Test Parameters	Performance characteristic	Acceptable range
Liquid junction error ΔpH_j , pH unit	0.01	Less than 0.05
Shift on stirring ΔpH_s , pH unit	0.01	Less than 0.02
Noise ΔpH_n , pH unit	0.00	Less than 0.02

6. Redox Meter check

Redox, mV		Acceptable range
Instrument Reading	Theoretical Value	
228	229	229±10

7. Depth Meter check

Instrument Reading, m	Calibration Value, m	Correction, m	Acceptable range
1.0	1.00	0.00	1.00 ± 0.05

**********END OF REPORT**********

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Website: www.wellab.com.hk

TEST REPORT

APPLICANT: **Cinotech Consultants Limited**
Room 1710, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

ATTN: **Mr. W.K. Tang**

Test Report No.:	C/W/151016-2
Date of Issue:	2015-10-16
Date Received:	2015-10-16
Date Tested:	2015-10-16
Date Completed:	2015-10-16
Next Due Date:	2016-01-15
Page:	1 of 2

Certificate of Calibration

Item for calibration:

Description	: Multiparameter Water Quality Probe
Manufacturer	: Aquaread Ltd
Model No.	: AP-2000-D
Serial No.	: 128041320
Equipment No.	: W.18.09

Test conditions:

Room Temperature	: 25 degree Celsius
Relative Humidity	: 67 %

Test Specifications:

Dissolved Oxygen, Conductivity & Salinity Sensor,
1. Performance check against Winkler titration
2. Conductivity performance check with Potassium Chloride standard solution
3. Salinity performance check with Sodium Chloride standard solution

Turbidity Sensor, Batch: 12213
1. Calibration check with Formazin standard solution

pH / ORP electrode
1. Calibration check with standard pH buffer
2. Redox performance check with ZoBell's standard solution

Depth Meter
1. Calibration check at 1m water level depth

Methodologies:

1. Aquaprobe AP-2000 Manual
2. In-house method with reference to APHA and ISO standards
   Conductivity (APHA 20ed 2510), Salinity (APHA 20ed 2520B)
   Dissolved Oxygen (APHA 20ed 4500-O C), Turbidity (APHA 19ed 2130 B),
   pH (ISO 10523, Section 9.1 and APHA 19ed 4500-H+ B) ,
   Redox electrode (APHA 20ed 2580)

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
Laboratory Manager

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TEST REPORT

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Date of Issue:	2015-10-16
Date Received:	2015-10-16
Date Tested:	2015-10-16
Date Completed:	2015-10-16
Next Due Date:	2016-01-15

Results:

1. Conductivity performance check

Specific Conductivity, µS/cm		Correction, µS/cm	Acceptable range
Instrument Reading	Theoretical Value		
1420	1420	0	1420 ± 20

2. Salinity Performance check

Salinity, ppt		Correction, ppt	Acceptable range
Instrument Reading	Theoretical Value		
30.0	30.0	0.0	30.0 ± 3

3. Dissolved Oxygen check

Oxygen level in water at 20°C	Dissolved Oxygen, mg O_2/L		Correction, mg O_2/L	Acceptable range
	D.O. Meter	Winkler Titration		
Saturated	9.1	9.1	0.0	± 0.2
Half-saturated	5.6	5.6	0.0	± 0.2
Zero	0.0	0.0	0.0	± 0.2

4. Turbidity check

Turbidity value in solution, NTU	Calibration Value, NTU	Correction, NTU	Acceptable range
0.00	0.00	0.00	0.00 ± 0.05
100	100	0	100 ± 5
1000	1000	0	1000 ± 100

5. pH Meter check

Test Parameters	Performance characteristic	Acceptable range
Liquid junction error ΔpH_j , pH unit	0.01	Less than 0.05
Shift on stirring ΔpH_s , pH unit	0.01	Less than 0.02
Noise ΔpH_n , pH unit	0.00	Less than 0.02

6. Redox Meter check

Redox, mV		Acceptable range
Instrument Reading	Theoretical Value	
228	229	229±10

7. Depth Meter check

Instrument Reading, m	Calibration Value, m	Correction, m	Acceptable range
1.0	1.00	0.00	1.00 ± 0.05

**********END OF REPORT**********

APPENDIX D
WATER QUALITY MONITORING SCHEDULES

Contract No. KL/2013/01 - Site Formation For Kai Tak Cruise Terminal Developmemt - Remaining Works
Water Quality Monitoring Schedule (October 2015)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Oct	2-Oct	3-Oct
					Mid-Flood 09:29 Mid-Ebb 15:18	
4-Oct	5-Oct	6-Oct	7-Oct	8-Oct	9-Oct	10-Oct
		Mid-Ebb 07:28 Mid-Flood 15:14		Mid-Ebb 09:31 Mid-Flood 16:28		Mid-Ebb 10:57 Mid-Flood 17:20
11-Oct	12-Oct	13-Oct	14-Oct	15-Oct	16-Oct	17-Oct
	Mid-Ebb 12:05 Mid-Flood 18:04		Mid-Ebb 13:09 Mid-Flood 18:54		Mid-Flood 08:25 Mid-Ebb 14:16	
18-Oct	19-Oct	20-Oct	**21-Oct**	22-Oct	23-Oct	24-Oct
	Mid-Flood 11:04 Mid-Ebb 16:22			Mid-Ebb 07:04 Mid-Flood 14:50		Mid-Ebb 09:21 Mid-Flood 16:11
25-Oct	26-Oct	27-Oct	28-Oct	29-Oct	30-Oct	31-Oct
	Mid-Ebb 11:08 Mid-Flood 17:23		Mid-Ebb 12:42 Mid-Flood 18:37			Mid-Flood 09:26 Mid-Ebb 15:03

Contract No. KL/2013/01 - Site Formation For Kai Tak Cruise Terminal Developmemt - Remaining Works
Tentative Water Quality Monitoring Schedule (November 2015)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Nov	2-Nov	3-Nov	4-Nov	5-Nov	6-Nov	7-Nov
	Mid-Flood 11:36 Mid-Ebb 16:42		Mid-Flood 14:27 Mid-Ebb 19:40		Mid-Ebb 08:46 Mid-Flood 15:36	
8-Nov	9-Nov	10-Nov	11-Nov	12-Nov	13-Nov	14-Nov
	Mid-Ebb 11:00 Mid-Flood 16:56		Mid-Ebb 12:10 Mid-Flood 17:44		Mid-Ebb 13:18 Mid-Flood 18:39	
15-Nov	16-Nov	17-Nov	18-Nov	19-Nov	20-Nov	21-Nov
	Mid-Flood 09:53 Mid-Ebb 15:15		Mid-Flood 11:54 Mid-Ebb 17:23		Mid-Flood 13:58 Mid-Ebb 20:03	
22-Nov	23-Nov	24-Nov	25-Nov	26-Nov	27-Nov	28-Nov
	Mid-Ebb 09:54 Mid-Flood 16:10		Mid-Ebb 11:38 Mid-Flood 17:28		Mid-Ebb 13:15 Mid-Flood 18:45	
29-Nov	30-Nov					
	Mid-Flood 10:10 Mid-Ebb 15:29					

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

APPENDIX E
WATER QUALITY MONITORING RESULTS AND GRAPHICAL PRESENTATION

Water Quality Monitoring Results at WSD9 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
2-Oct-15	Rainy	Moderate	15:18	Middle	3.5	28.5 28.3	28.4	8.2 8.2	8.2	31.7 31.7	31.7	82.7 83.0	82.9	5.4 5.4	5.4	4.9 5.0	5.0	7 8	7.5
6-Oct-15	Rainy	Moderate	06:02	Middle	3.5	27.9 27.7	27.8	8.1 8.1	8.1	31.2 31.2	31.2	85.0 85.0	85.0	5.6 5.6	5.6	4.9 5.3	5.1	3 3	3.0
8-Oct-15	Sunny	Moderate	08:04	Middle	3.2	27.4 27.1	27.3	8.0 8.0	8.0	31.5 31.5	31.5	83.9 83.5	83.7	5.6 5.6	5.6	4.1 3.5	3.8	5 5	5.0
10-Oct-15	Sunny	Moderate	09:52	Middle	3.9	27.4 27.6	27.5	8.0 8.0	8.0	33.0 33.2	33.1	121.7 122.1	121.9	8.0 8.0	8.0	5.2 5.4	5.3	7 6	6.5
12-Oct-15	Sunny	Moderate	11:00	Middle	3.5	27.7 27.5	27.6	8.1 8.1	8.1	30.4 30.4	30.4	87.2 87.2	87.2	5.8 5.8	5.8	3.5 2.9	3.2	8 8	8.0
14-Oct-15	Sunny	Moderate	11:56	Middle	3.5	27.7 27.4	27.6	7.7 7.7	7.7	30.4 30.4	30.4	85.8 85.4	85.6	5.7 5.7	5.7	4.1 3.5	3.8	7 6	6.5
16-Oct-15	Sunny	Moderate	14:10	Middle	4.2	26.4 26.2	26.3	8.2 8.2	8.2	31.5 31.6	31.6	100.5 103.0	101.8	6.8 7.0	6.9	4.9 5.0	5.0	6 6	6.0
19-Oct-15	Sunny	Moderate	14:56	Middle	4.1	28.1 28.1	28.1	7.7 7.7	7.7	31.8 31.7	31.8	81.5 82.1	81.8	5.3 5.4	5.4	4.8 4.7	4.8	4 4	4.0
22-Oct-15	Sunny	Moderate	06:19	Middle	3.5	28.0 28.0	28.0	7.9 8.0	8.0	29.9 29.7	29.8	76.8 77.2	77.0	5.1 5.1	5.1	4.7 5.0	4.9	6 7	6.5
24-Oct-15	Sunny	Moderate	09:10	Middle	4	28.5 28.4	28.5	8.3 8.3	8.3	31.1 31.6	31.4	85.2 80.4	82.8	5.6 5.2	5.4	5.3 5.3	5.3	5 5	5.0
26-Oct-15	Sunny	Moderate	09:43	Middle	3.7	26.8 26.9	26.9	8.0 8.2	8.1	31.5 31.6	31.6	86.3 76.8	81.6	5.8 5.1	5.5	4.6 4.8	4.7	9 9	9.0
28-Oct-15	Sunny	Moderate	11:59	Middle	3.9	27.0 27.2	27.1	8.0 8.0	8.0	28.8 28.8	28.8	119.5 119.7	119.6	8.1 8.1	8.1	5.0 5.3	5.2	3 3	3.0
31-Oct-15	Sunny	Moderate	15:23	Middle	3.8	26.2 26.0	26.1	8.2 8.2	8.2	31.5 31.5	31.5	100.9 103.4	102.2	6.8 7.0	6.9	4.9 5.0	5.0	4 4	4.0

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Water Quality Monitoring Results at WSD9 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Average	
2-Oct-15	Rainy	Moderate	08:00	Middle	3.9	28.1 27.8	28.0	8.1 8.1	8.1	30.5 30.5	30.5	87.6 87.5	87.6	5.8 5.8	5.8	4.8 5.2	5.0	10 10	10.0
6-Oct-15	Rainy	Moderate	15:24	Middle	4.4	25.7 25.9	25.8	7.9 7.9	7.9	32.0 32.0	32.0	84.6 86.2	85.4	5.8 5.9	5.9	5.2 5.1	5.2	9 9	9.0
8-Oct-15	Sunny	Moderate	16:24	Middle	3.8	27.6 27.4	27.5	8.2 8.2	8.2	32.0 32.0	32.0	78.1 80.7	79.4	5.2 5.3	5.3	5.2 5.3	5.3	6 5	5.5
10-Oct-15	Fine	Moderate	17:50	Middle	3.8	27.9 28.1	28.0	8.0 8.0	8.0	30.9 31.0	31.0	78.9 78.9	78.9	5.2 5.2	5.2	5.0 5.2	5.1	10 10	10.0
12-Oct-15	Fine	Moderate	18:22	Middle	4	25.4 25.6	25.5	8.0 8.0	8.0	31.2 31.2	31.2	84.4 86.0	85.2	5.8 5.9	5.9	1.8 1.8	1.8	10 10	10.0
14-Oct-15	Fine	Moderate	19:19	Middle	3.7	27.7 27.5	27.6	8.0 8.0	8.0	31.4 31.4	31.4	79.9 82.5	81.2	5.3 5.5	5.4	5.2 5.3	5.3	6 6	6.0
16-Oct-15	Sunny	Moderate	07:02	Middle	3.6	26.3 26.0	26.2	7.9 7.9	7.9	30.5 30.6	30.6	105.5 105.3	105.4	7.2 7.2	7.2	3.8 3.2	3.5	7 7	7.0
19-Oct-15	Sunny	Moderate	10:45	Middle	4.3	28.0 28.0	28.0	7.9 7.8	7.9	31.3 31.3	31.3	83.8 83.3	83.6	5.5 5.5	5.5	4.9 4.9	4.9	10 10	10.0
22-Oct-15	Sunny	Moderate	15:31	Middle	5.3	28.0 27.9	28.0	8.0 8.0	8.0	29.6 29.5	29.6	77.7 77.6	77.7	5.2 5.2	5.2	5.1 5.0	5.1	8 8	8.0
24-Oct-15	Sunny	Moderate	16:52	Middle	4.1	28.5 28.5	28.5	8.3 8.3	8.3	31.5 30.6	31.1	78.8 77.8	78.3	5.1 5.1	5.1	5.4 5.5	5.5	8 7	7.5
26-Oct-15	Sunny	Moderate	16:00	Middle	4.1	26.9 26.9	26.9	8.4 8.4	8.4	31.6 29.7	30.7	80.0 82.6	81.3	5.4 5.6	5.5	5.7 5.1	5.4	6 6	6.0
28-Oct-15	Fine	Moderate	18:29	Middle	4	27.5 27.7	27.6	7.9 7.9	7.9	28.9 28.1	28.5	116.0 115.7	115.9	7.8 7.8	7.8	4.9 5.1	5.0	3 3	3.0
31-Oct-15	Sunny	Moderate	08:17	Middle	3.9	26.1 25.8	26.0	7.9 7.9	7.9	30.5 30.6	30.6	106.1 105.9	106.0	7.2 7.3	7.3	3.8 3.2	3.5	4 4	4.0

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Water Quality Monitoring Results at WSD10 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
2-Oct-15	Rainy	Moderate	15:02	Middle	5.4	28.8 28.6	28.7	8.2 8.2	8.2	31.3 31.3	31.3	89.7 88.0	88.9	5.8 5.7	5.8	5.7 5.8	5.8	9 9	9.0
6-Oct-15	Rainy	Moderate	06:20	Middle	5.5	26.9 26.5	26.7	8.0 8.0	8.0	31.3 31.2	31.3	88.1 88.1	88.1	5.9 5.9	5.9	6.1 6.1	6.1	4 4	4.0
8-Oct-15	Sunny	Moderate	08:22	Middle	5.6	28.4 28.4	28.4	8.1 8.1	8.1	31.5 31.5	31.5	84.4 84.1	84.3	5.5 5.5	5.5	5.7 5.4	5.6	5 5	5.0
10-Oct-15	Sunny	Moderate	10:09	Middle	5	27.3 27.3	27.3	8.0 8.0	8.0	32.9 32.9	32.9	120.9 120.7	120.8	8.0 8.0	8.0	3.7 3.6	3.7	9 9	9.0
12-Oct-15	Sunny	Moderate	11:18	Middle	5.5	26.7 26.3	26.5	8.0 8.0	8.0	30.5 30.4	30.5	90.2 90.2	90.2	6.1 6.1	6.1	5.1 4.8	5.0	6 6	6.0
14-Oct-15	Sunny	Moderate	12:14	Middle	5.6	28.7 28.7	28.7	7.8 7.8	7.8	30.4 30.4	30.4	86.3 86.0	86.2	5.6 5.6	5.6	5.7 5.4	5.6	6 6	6.0
16-Oct-15	Sunny	Moderate	13:54	Middle	5.9	26.7 26.5	26.6	8.2 8.2	8.2	31.4 31.4	31.4	110.0 108.3	109.2	7.4 7.3	7.4	4.7 4.8	4.8	7 7	7.0
19-Oct-15	Sunny	Moderate	15:14	Middle	5.7	28.0 28.0	28.0	7.9 7.9	7.9	30.5 30.5	30.5	82.2 82.0	82.1	5.4 5.4	5.4	5.7 5.8	5.8	4 4	4.0
22-Oct-15	Sunny	Moderate	06:36	Middle	5.3	27.5 27.6	27.6	8.0 8.0	8.0	30.0 30.0	30.0	73.2 73.2	73.2	4.9 4.9	4.9	3.6 3.7	3.7	6 6	6.0
24-Oct-15	Sunny	Moderate	09:35	Middle	5.1	28.5 28.6	28.6	8.3 8.3	8.3	30.3 30.8	30.6	84.9 88.7	86.8	5.6 5.8	5.7	5.7 5.7	5.7	6 6	6.0
26-Oct-15	Sunny	Moderate	10:04	Middle	5.3	26.9 26.9	26.9	8.3 8.3	8.3	31.5 31.5	31.5	76.5 79.1	77.8	5.1 5.3	5.2	3.8 3.9	3.9	8 8	8.0
28-Oct-15	Sunny	Moderate	12:16	Middle	5.1	26.9 26.9	26.9	8.0 8.0	8.0	28.6 28.5	28.6	118.5 118.3	118.4	8.1 8.1	8.1	4.9 4.3	4.6	<2.5 <2.5	<2.5
31-Oct-15	Sunny	Moderate	15:07	Middle	5.4	26.5 26.3	26.4	8.2 8.2	8.2	31.4 31.4	31.4	110.4 108.7	109.6	7.4 7.4	7.4	4.7 4.8	4.8	5 5	5.0

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Water Quality Monitoring Results at WSD10 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Average	
2-Oct-15	Rainy	Moderate	08:19	Middle	5.6	29.1 29.1	29.1	8.2 8.2	8.2	30.5 30.5	30.5	88.5 88.2	88.4	5.7 5.7	5.7	6.0 6.1	6.1	7 7	7.0
6-Oct-15	Rainy	Moderate	15:07	Middle	5.7	26.8 26.5	26.7	7.9 7.9	7.9	32.4 32.4	32.4	80.8 81.0	80.9	5.4 5.4	5.4	5.3 5.4	5.4	4 4	4.0
8-Oct-15	Sunny	Moderate	16:08	Middle	5.5	27.9 27.7	27.8	8.2 8.2	8.2	31.8 31.8	31.8	87.7 86.0	86.9	5.8 5.7	5.8	5.0 5.1	5.1	5 6	5.5
10-Oct-15	Fine	Moderate	17:33	Middle	5.3	27.9 27.9	27.9	8.0 8.0	8.0	31.2 31.4	31.3	79.0 78.8	78.9	5.2 5.2	5.2	5.6 5.7	5.7	9 8	8.5
12-Oct-15	Fine	Moderate	18:06	Middle	5.3	26.5 26.2	26.4	8.0 8.0	8.0	31.6 31.6	31.6	80.7 80.9	80.8	5.4 5.5	5.5	2.4 2.5	2.5	8 7	7.5
14-Oct-15	Fine	Moderate	19:03	Middle	5.4	27.2 27.8	27.5	8.0 8.0	8.0	31.2 31.3	31.3	88.3 87.9	88.1	5.9 5.8	5.9	5.0 5.1	5.1	9 9	9.0
16-Oct-15	Sunny	Moderate	07:20	Middle	5.6	27.3 27.3	27.3	8.0 8.0	8.0	30.5 30.6	30.6	106.7 106.4	106.6	7.1 7.1	7.1	5.4 5.1	5.3	8 9	8.5
19-Oct-15	Sunny	Moderate	11:04	Middle	5.7	28.1 28.0	28.1	8.0 8.0	8.0	31.2 31.1	31.2	82.0 82.3	82.2	5.4 5.4	5.4	5.6 5.6	5.6	4 4	4.0
22-Oct-15	Sunny	Moderate	15:15	Middle	3.8	28.0 28.0	28.0	8.0 8.0	8.0	29.6 30.1	29.9	77.1 77.0	77.1	5.1 5.1	5.1	5.3 6.5	5.9	7 8	7.5
24-Oct-15	Sunny	Moderate	17:07	Middle	5.3	28.5 28.4	28.5	8.3 8.3	8.3	29.5 31.1	30.3	83.5 83.4	83.5	5.5 5.5	5.5	5.5 5.7	5.6	6 7	6.5
26-Oct-15	Sunny	Moderate	16:21	Middle	5.6	26.9 26.9	26.9	8.4 8.4	8.4	30.7 30.9	30.8	86.1 89.8	88.0	5.8 6.0	5.9	5.7 5.1	5.4	4 4	4.0
28-Oct-15	Fine	Moderate	18:12	Middle	5	27.5 27.5	27.5	7.9 7.9	7.9	28.4 28.6	28.5	115.7 115.6	115.7	7.8 7.8	7.8	5.7 5.3	5.5	<2.5 <2.5	<2.5
31-Oct-15	Sunny	Moderate	08:35	Middle	5.8	27.1 27.1	27.1	7.9 7.9	7.9	30.5 30.5	30.5	107.3 107.0	107.2	7.2 7.2	7.2	5.4 5.1	5.3	5 5	5.0

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Water Quality Monitoring Results at WSD17 - Mid-Ebb Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
2-Oct-15	Rainy	Moderate	15:10	Middle	6.4	27.8 28.1	28.0	8.2 8.2	8.2	32.1 32.1	32.1	78.0 78.8	78.4	5.1 5.2	5.2	7.9 7.7	7.8	10 9	9.5
6-Oct-15	Rainy	Moderate	06:10	Middle	6.1	26.8 26.7	26.8	8.0 8.0	8.0	31.2 31.2	31.2	84.3 84.5	84.4	5.7 5.7	5.7	6.2 6.2	6.2	5 5	5.0
8-Oct-15	Sunny	Moderate	08:13	Middle	6.2	27.6 27.4	27.5	8.0 8.1	8.1	31.5 31.6	31.6	88.2 87.3	87.8	5.8 5.8	5.8	4.2 3.8	4.0	4 4	4.0
10-Oct-15	Sunny	Moderate	10:00	Middle	5.7	25.8 26.1	26.0	7.9 7.9	7.9	31.1 30.9	31.0	115.4 115.5	115.5	7.9 7.9	7.9	4.5 4.8	4.7	9 10	9.5
12-Oct-15	Sunny	Moderate	11:09	Middle	6	26.6 26.5	26.6	8.0 8.0	8.0	30.4 30.4	30.4	86.4 86.6	86.5	5.9 5.9	5.9	3.6 3.2	3.4	6 6	6.0
14-Oct-15	Sunny	Moderate	12:05	Middle	6.1	27.9 27.7	27.8	7.7 7.7	7.7	30.5 30.5	30.5	90.0 89.2	89.6	6.0 5.9	6.0	4.2 3.8	4.0	5 5	5.0
16-Oct-15	Sunny	Moderate	14:02	Middle	6.2	25.7 26.0	25.9	8.2 8.3	8.3	32.0 32.0	32.0	95.8 96.7	96.3	6.5 6.6	6.6	4.9 4.7	4.8	9 10	9.5
19-Oct-15	Sunny	Moderate	15:05	Middle	6.5	28.0 28.1	28.1	7.7 7.7	7.7	31.3 31.2	31.3	78.1 78.6	78.4	5.1 5.2	5.2	4.9 4.6	4.8	5 6	5.5
22-Oct-15	Sunny	Moderate	06:27	Middle	5.8	27.9 28.1	28.0	7.8 7.9	7.9	29.6 29.7	29.7	73.8 74.3	74.1	4.9 4.9	4.9	5.8 5.7	5.8	5 5	5.0
24-Oct-15	Sunny	Moderate	09:22	Middle	6.1	28.5 28.6	28.6	8.3 8.3	8.3	30.1 30.6	30.4	96.6 97.1	96.9	6.3 6.4	6.4	5.4 5.5	5.5	10 10	10.0
26-Oct-15	Sunny	Moderate	09:55	Middle	5.9	26.9 26.9	26.9	8.2 8.2	8.2	31.7 31.4	31.6	82.5 83.7	83.1	5.5 5.6	5.6	5.1 5.4	5.3	9 10	9.5
28-Oct-15	Sunny	Moderate	12:07	Middle	6.1	25.4 25.7	25.6	7.9 7.9	7.9	28.5 28.4	28.5	114.2 114.4	114.3	8.0 8.0	8.0	5.8 5.7	5.8	3 3	3.0
31-Oct-15	Sunny	Moderate	15:15	Middle	6.1	25.5 25.8	25.7	8.2 8.2	8.2	32.0 31.9	32.0	96.2 97.1	96.7	6.6 6.6	6.6	4.9 4.7	4.8	3 4	3.5

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

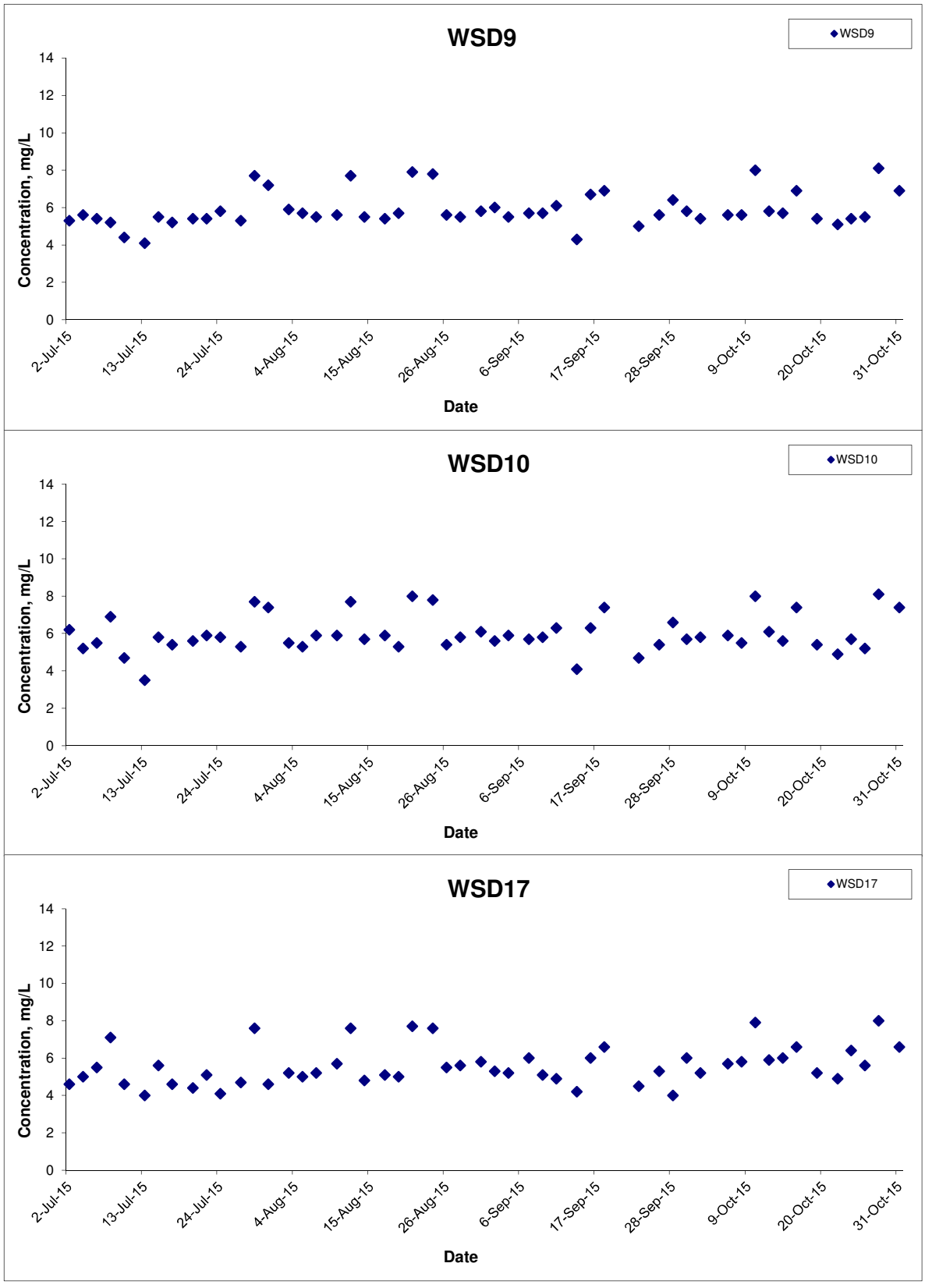
Water Quality Monitoring Results at WSD17 - Mid-Flood Tide

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
						Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Average	
2-Oct-15	Rainy	Moderate	08:09	Middle	6.4	28.3 28.1	28.2	8.1 8.2	8.2	30.5 30.6	30.6	92.2 91.3	91.8	6.1 6.0	6.1	7.9 7.5	7.7	7 7	7.0
6-Oct-15	Rainy	Moderate	15:16	Middle	6	26.4 26.4	26.4	7.9 7.9	7.9	32.8 32.8	32.8	77.0 76.6	76.8	5.2 5.1	5.2	7.1 7.1	7.1	8 8	8.0
8-Oct-15	Sunny	Moderate	16:16	Middle	6.3	26.9 27.2	27.1	8.2 8.3	8.3	32.4 32.4	32.4	73.5 74.3	73.9	4.9 4.9	4.9	5.2 5.0	5.1	8 9	8.5
10-Oct-15	Fine	Moderate	17:42	Middle	6.2	27.7 27.9	27.8	8.0 7.9	8.0	31.3 31.3	31.3	78.8 79.4	79.1	5.2 5.2	5.2	4.8 4.6	4.7	9 10	9.5
12-Oct-15	Fine	Moderate	18:14	Middle	6	26.1 26.1	26.1	8.0 8.0	8.0	32.0 32.0	32.0	76.9 76.5	76.7	5.2 5.2	5.2	1.9 1.9	1.9	13 12	12.5
14-Oct-15	Fine	Moderate	19:11	Middle	6.2	27.0 27.3	27.2	8.0 8.1	8.1	31.8 31.8	31.8	75.3 76.1	75.7	5.0 5.1	5.1	5.2 5.0	5.1	8 8	8.0
16-Oct-15	Sunny	Moderate	07:11	Middle	6.1	26.5 26.3	26.4	7.9 7.9	7.9	30.6 30.6	30.6	110.1 109.1	109.6	7.5 7.4	7.5	3.9 3.5	3.7	10 9	9.5
19-Oct-15	Sunny	Moderate	10:55	Middle	6.9	27.9 27.9	27.9	7.5 7.5	7.5	31.2 31.2	31.2	77.1 77.2	77.2	5.1 5.1	5.1	6.3 6.2	6.3	4 3	3.5
22-Oct-15	Sunny	Moderate	15:23	Middle	6.2	28.0 27.9	28.0	7.9 7.9	7.9	29.7 29.3	29.5	74.1 73.9	74.0	4.9 4.9	4.9	7.8 7.0	7.4	4 4	4.0
24-Oct-15	Sunny	Moderate	16:57	Middle	6	28.4 28.5	28.5	8.3 8.3	8.3	30.3 30.8	30.6	84.9 88.7	86.8	5.6 5.8	5.7	5.7 5.7	5.7	11 11	11.0
26-Oct-15	Sunny	Moderate	16:13	Middle	6.2	26.9 26.9	26.9	8.3 8.3	8.3	31.5 31.4	31.5	74.5 79.8	77.2	5.0 5.3	5.2	5.4 5.9	5.7	9 9	9.0
28-Oct-15	Fine	Moderate	18:21	Middle	6.3	27.3 27.5	27.4	7.9 7.9	7.9	28.1 28.8	28.5	115.2 116.3	115.8	7.8 7.8	7.8	5.7 5.5	5.6	3 3	3.0
31-Oct-15	Sunny	Moderate	08:26	Middle	6.3	26.3 26.1	26.2	7.9 7.9	7.9	30.6 30.6	30.6	110.6 109.7	110.2	7.5 7.5	7.5	3.9 3.5	3.7	9 8	8.5

Remarks: *DA: Depth-Averaged

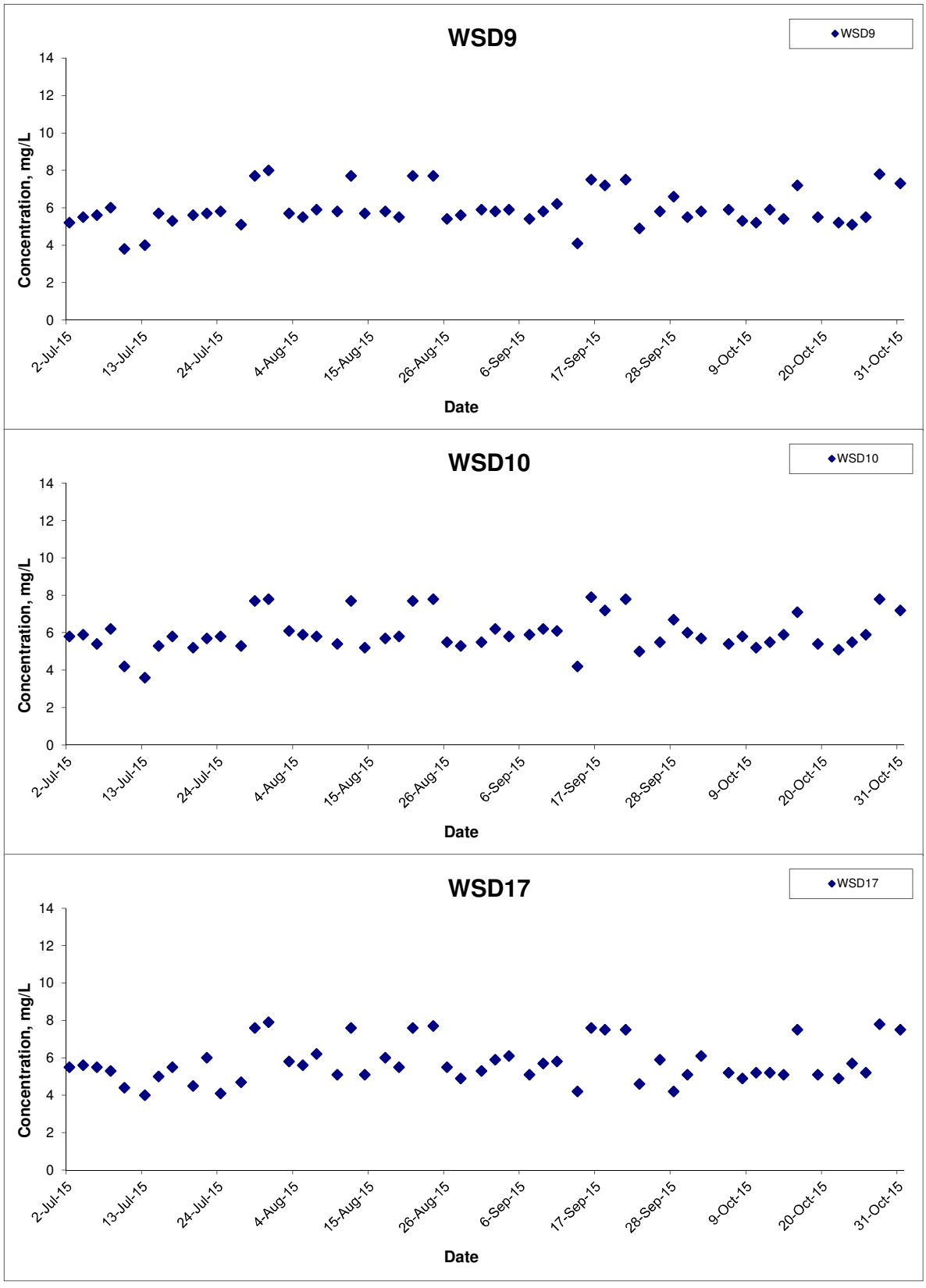
**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Dissolved Oxygen at Mid-Ebb Tide



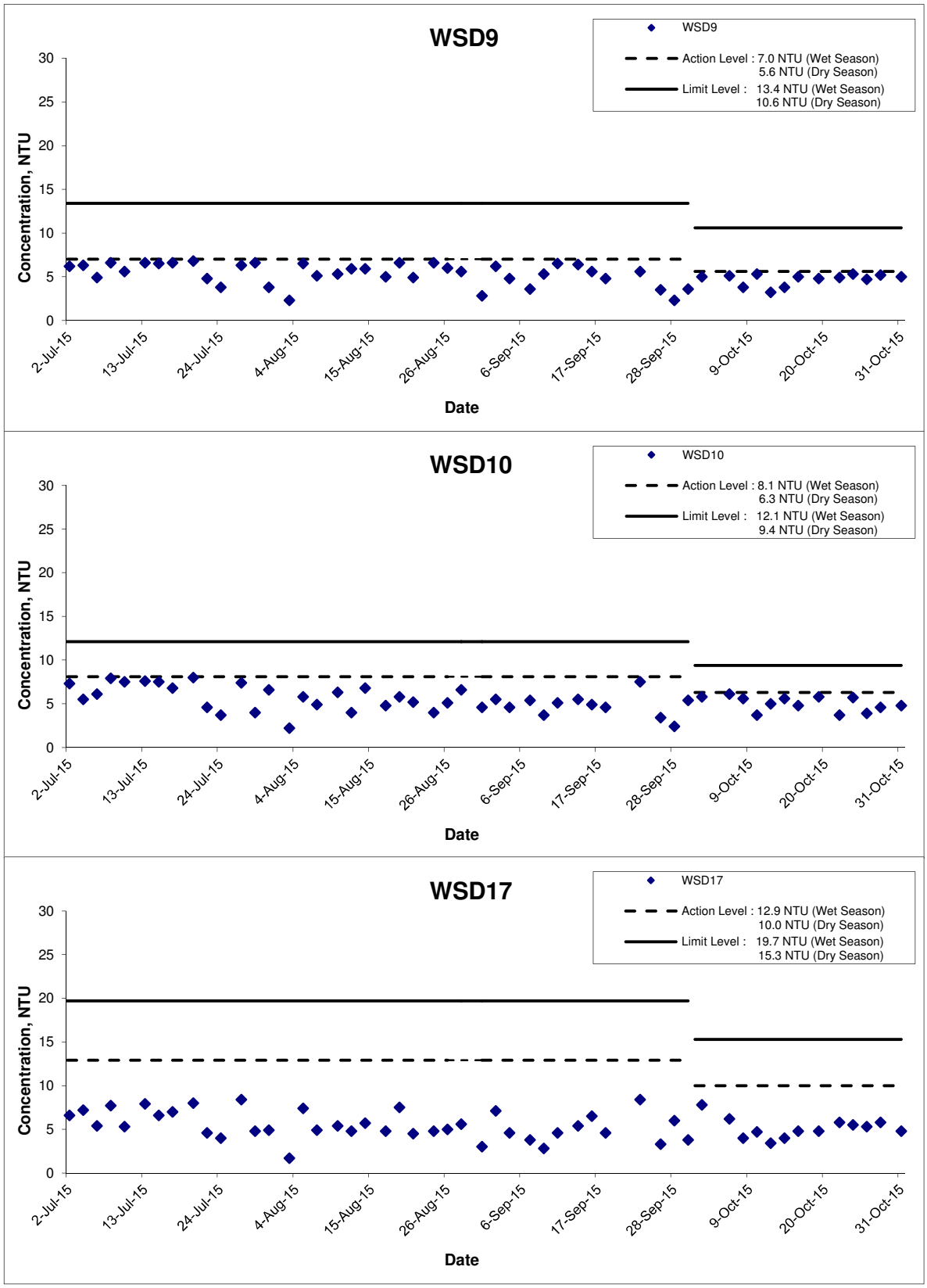
Title	Contract No. KL/2013/01 - Site Formation For Kai Tak Cruise Terminal Development - Remaining Works Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA15011	CINOTECH
		Date Oct 15	Appendix E	

Dissolved Oxygen at Mid-Flood Tide



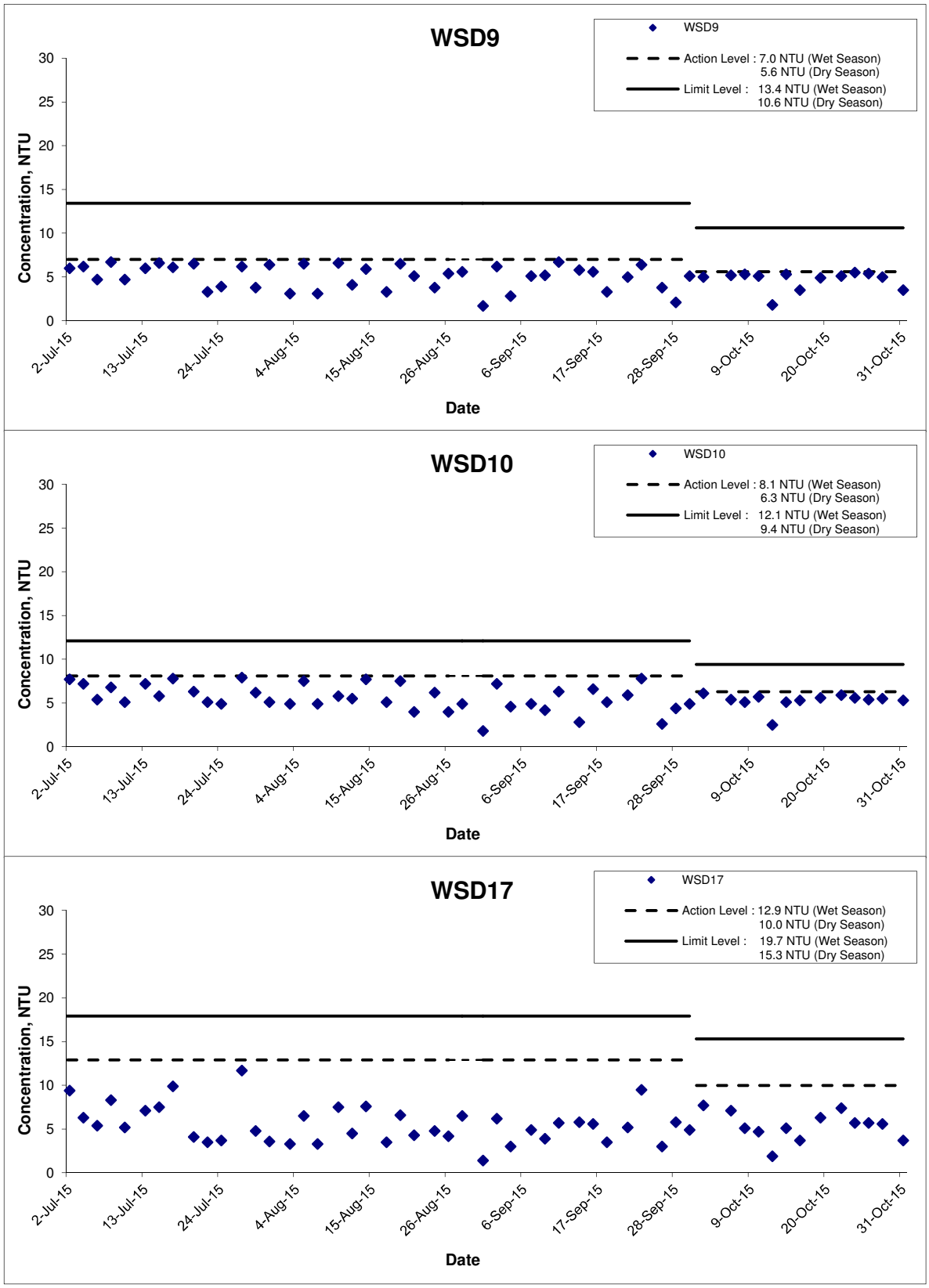
Title	Contract No. KL/2013/01 - Site Formation For Kai Tak Cruise Terminal Development - Remaining Works Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. MA15011	CINOTECH
		Date Oct 15	Appendix E	

Turbidity at Mid-Ebb Tide



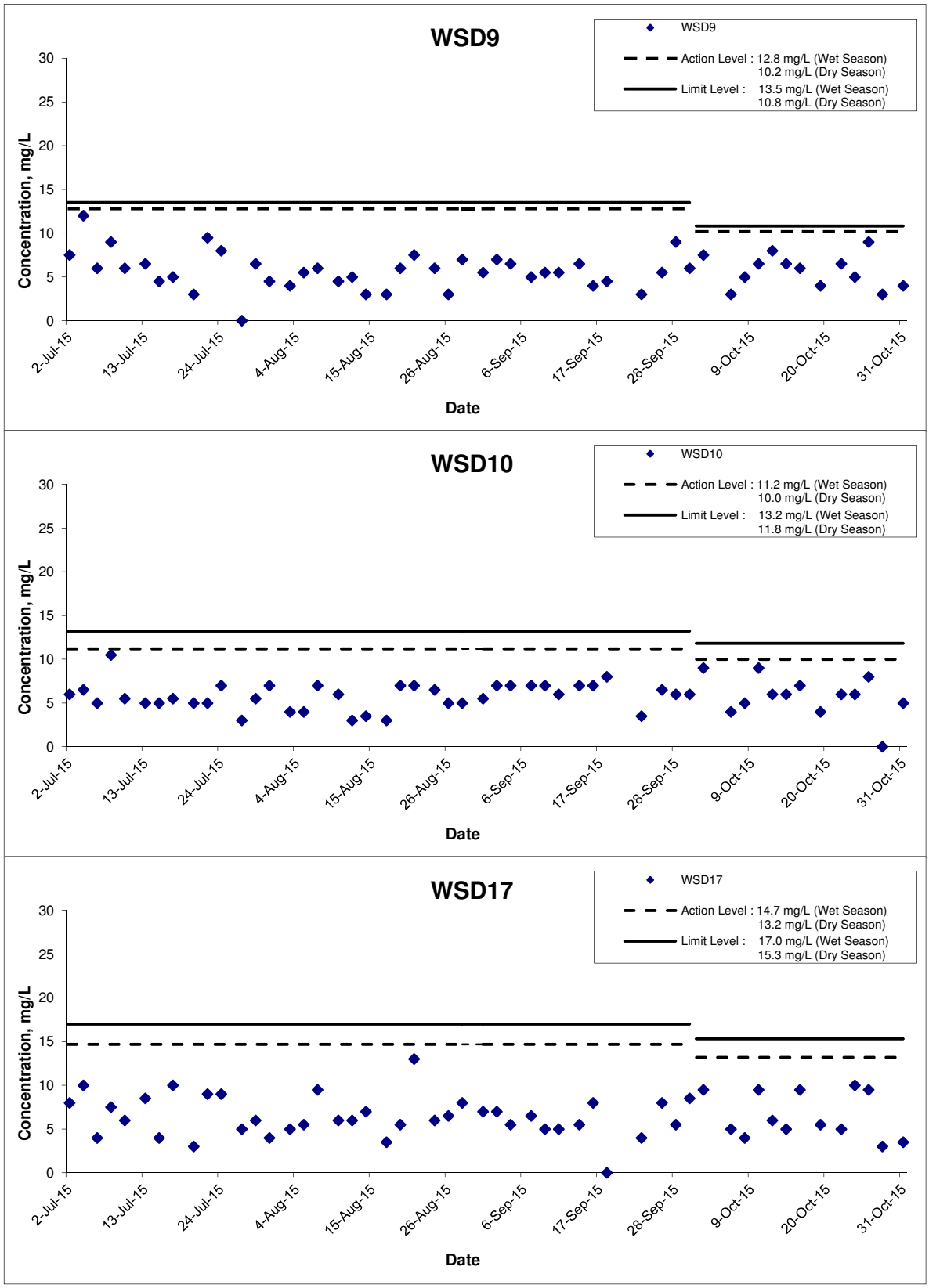
Title	Contract No. KL/2013/01 - Site Formation For Kai Tak Cruise Terminal Development - Remaining Works	Scale N.T.S	Project No. MA15011	CINOTECH
	Graphical Presentation of Water Quality Monitoring Results	Date Oct 15	Appendix E	

Turbidity at Mid-Flood Tide



Title	Contract No. KL/2013/01 - Site Formation For Kai Tak Cruise Terminal Development - Remaining Works	Scale N.T.S	Project No. MA15011	CINOTECH
	Graphical Presentation of Water Quality Monitoring Results	Date Oct 15	Appendix E	

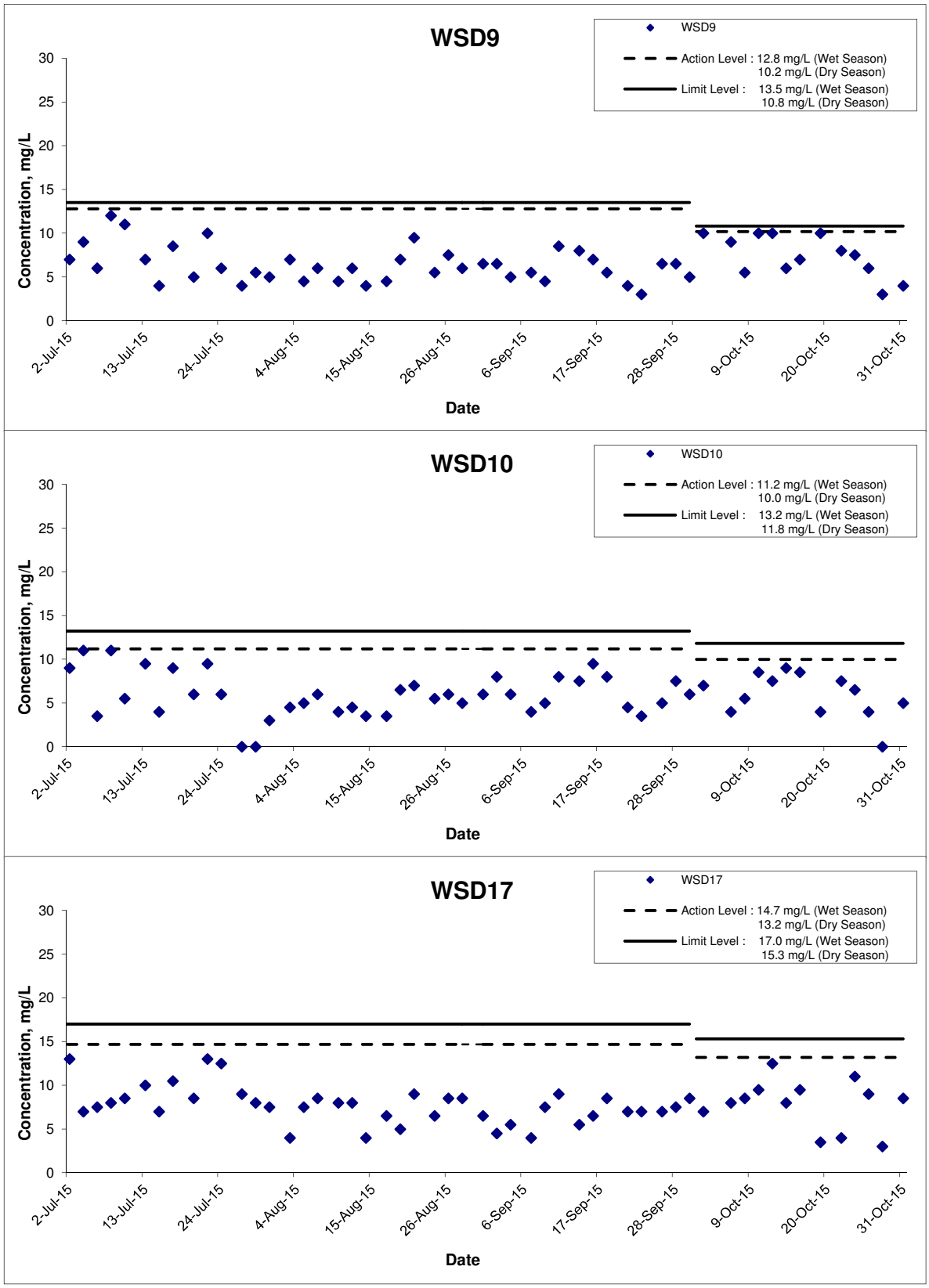
Suspended Solids at Mid-Ebb Tide



The graphical point at zero concentration is presented as <2.5 mg/L

Title: Contract No. KL/2013/01 - Site Formation For Kai Tak Cruise Terminal Development - Remaining Works Graphical Presentation of Water Quality Monitoring Results	Scale: N.T.S	Project No.: MA15011	CINOTECH
	Date: Oct 15	Appendix: E	

Suspended Solids at Mid-Flood Tide



The graphical point at zero concentration is presented as <2.5 mg/L

Title: Contract No. KL/2013/01 - Site Formation For Kai Tak Cruise Terminal Development - Remaining Works Graphical Presentation of Water Quality Monitoring Results	Scale: N.T.S	Project No.: MA15011	CINOTECH
	Date: Oct 15	Appendix: E	

APPENDIX F
WATER QUALITY MONITORING
RESULTS OF WATER QUALITY
SURVEILLANCE SYSTEM

Contract No. KL/2013/01
Site Formation For Kai Tak Cruise Terminal Developmemt - Remaining Works
(Water Quality Surveillance System)

Water Quality Monitoring Results on 14/10/2015 (Ebb Tide)

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Turbidity(NTU)			Suspended Solids (mg/L)		
						Value	Average	DA*	Value	Average	DA*
A4	Sunny	Moderate	14:16	Surface	1	3.1 3.1	3.1	4.1	10 10	10.0	9.3
				Middle	5.5	4.2 3.9	4.1		10 10	10.0	
				Bottom	10	5.2 4.7	5.0		8 8	8.0	
A5	Sunny	Moderate	14:06	Surface	1	4.6 4.3	4.5	5.4	10 9	9.5	9.5
				Middle	6	5.6 5.5	5.6		7 7	7.0	
				Bottom	11	5.9 6.1	6.0		12 12	12.0	
A6	Sunny	Moderate	13:56	Surface	1	3.1 2.9	3.0	3.7	11 11	11.0	9.8
				Middle	5.5	3.9 3.7	3.8		10 9	9.5	
				Bottom	10	4.2 4.3	4.3		9 9	9.0	
A7	Sunny	Moderate	13:45	Surface	1	3.5 3.2	3.4	4.1	9 9	9.0	8.0
				Middle	6	3.8 3.7	3.8		10 10	10.0	
				Bottom	11	4.8 5.1	5.0		5 5	5.0	
B1	Sunny	Moderate	13:06	Surface	1	4.4 4.2	4.3	4.7	10 10	10.0	9.5
				Middle	6	4.3 3.8	4.1		10 9	9.5	
				Bottom	11	5.9 5.7	5.8		9 9	9.0	
B2	Sunny	Moderate	13:16	Surface	1	4.1 4.4	4.3	5.0	10 11	10.5	11.3
				Middle	6	4.9 4.9	4.9		12 13	12.5	
				Bottom	11	5.7 5.6	5.7		11 11	11.0	
B3	Sunny	Moderate	13:25	Surface	1	4.2 4.3	4.3	4.9	11 11	11.0	10.3
				Middle	6	5.0 4.8	4.9		11 11	11.0	
				Bottom	11	5.3 5.7	5.5		9 9	9.0	
B4	Sunny	Moderate	13:35	Surface	1	4.2 4.1	4.2	5.0	10 10	10.0	9.2
				Middle	6	5.0 4.7	4.9		9 8	8.5	
				Bottom	11	5.7 5.9	5.8		9 9	9.0	
C1	Sunny	Moderate	12:28	Surface	1	3.0 3.4	3.2	3.5	10 9	9.5	9.3
				Middle	6	3.5 3.6	3.6		10 10	10.0	
				Bottom	11	3.7 3.6	3.7		8 9	8.5	
C2	Sunny	Moderate	12:43	Surface	1	3.5 3.4	3.5	4.5	6 6	6.0	7.5
				Middle	6	4.4 4.5	4.5		8 8	8.0	
				Bottom	11	5.5 5.6	5.6		8 9	8.5	
C3	Sunny	Moderate	12:57	Surface	1	2.7 2.6	2.7	3.3	6 6	6.0	6.5
				Middle	6	3.2 3.4	3.3		5 5	5.0	
				Bottom	11	3.8 3.9	3.9		8 9	8.5	
C5	Sunny	Moderate	12:15	Surface	1	4.2 4.8	4.5	5.5	6 6	6.0	8.3
				Middle	6	5.2 5.6	5.4		7 8	7.5	
				Bottom	11	6.4 6.8	6.6		11 12	11.5	

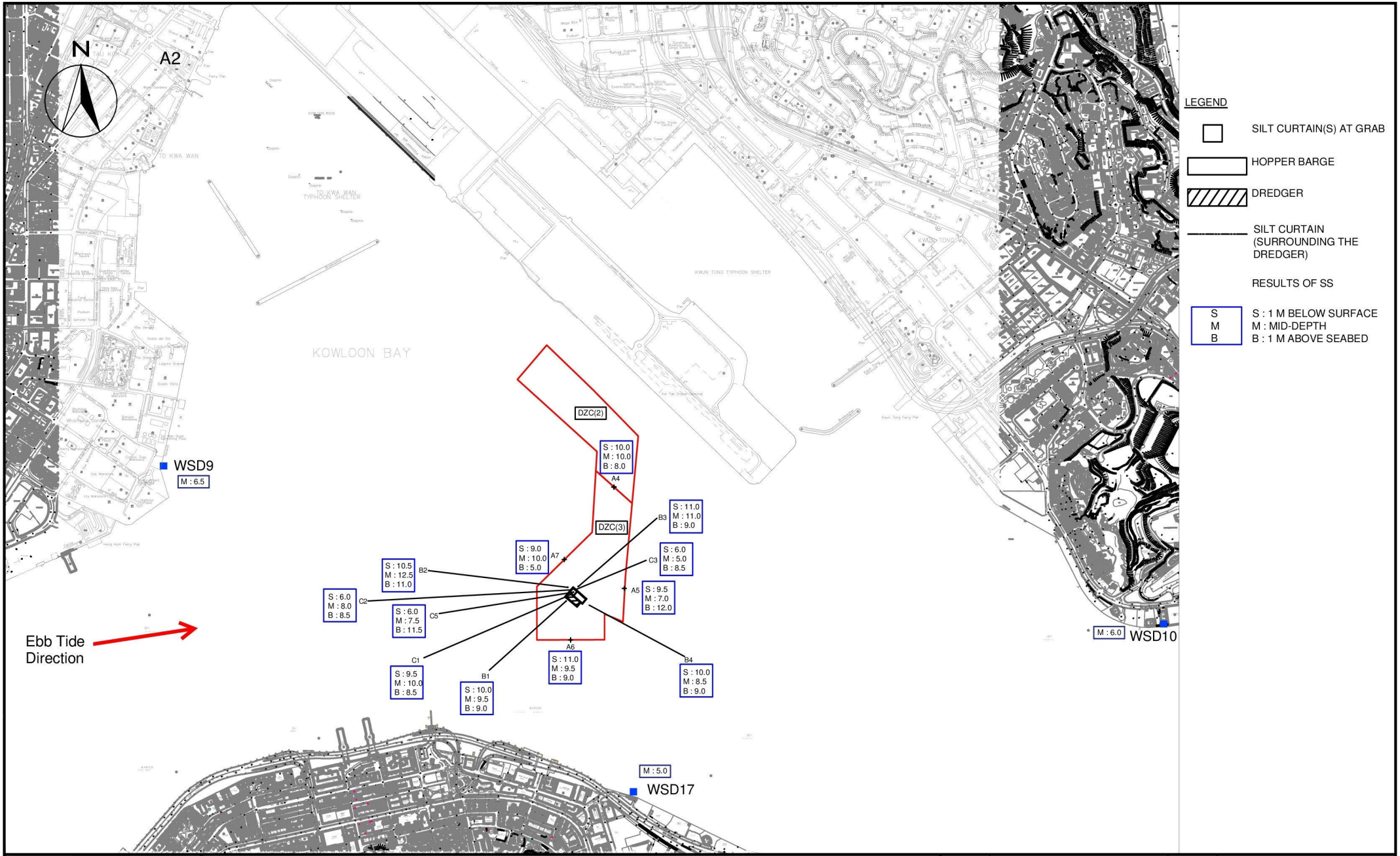
Remarks: *DA: Depth-Averaged
**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Contract No. KL/2013/01
Site Formation For Kai Tak Cruise Terminal Developmemt - Remaining Works
(Water Quality Surveillance System)

Water Quality Monitoring Results on 28/10/2015 (Flood Tide)

Date	Weather Condition	Sea Condition**	Sampling Time	Depth (m)		Turbidity(NTU)			Suspended Solids (mg/L)		
						Value	Average	DA*	Value	Average	DA*
A4	Sunny	Moderate	17:36	Surface	1	4.0 4.0	4.0	5.0	3 3	3.0	3.8
				Middle	5.5	5.1 4.8	5.0		5 4	4.5	
				Bottom	10	6.1 5.6	5.9		4 4	4.0	
A5	Sunny	Moderate	17:25	Surface	1	5.5 5.2	5.4	6.3	3 3	3.0	2.7
				Middle	6.5	6.5 6.4	6.5		3 3	2.5	
				Bottom	12	6.8 7.0	6.9		3 3	2.5	
A6	Sunny	Moderate	17:15	Surface	1	4.0 3.8	3.9	4.6	4 3	3.5	5.7
				Middle	6	4.8 4.6	4.7		7 7	7.0	
				Bottom	11	5.1 5.2	5.2		7 6	6.5	
A7	Sunny	Moderate	17:04	Surface	1	4.4 4.1	4.3	5.0	8 8	8.0	5.5
				Middle	6	4.7 4.6	4.7		4 4	4.0	
				Bottom	11	5.7 6.0	5.9		4 5	4.5	
B1	Sunny	Moderate	16:26	Surface	1	5.3 5.1	5.2	5.6	7 7	7.0	5.2
				Middle	6.5	5.2 4.7	5.0		4 4	4.0	
				Bottom	12	6.8 6.6	6.7		5 4	4.5	
B2	Sunny	Moderate	16:35	Surface	1	4.6 4.7	4.7	5.4	3 3	3.0	3.0
				Middle	6	5.1 5.5	5.3		3 3	3.0	
				Bottom	11	6.3 6.0	6.2		3 3	3.0	
B3	Sunny	Moderate	16:45	Surface	1	5.1 5.2	5.2	5.8	3 3	3.0	2.8
				Middle	6	5.9 5.7	5.8		3 3	3.0	
				Bottom	11	6.2 6.6	6.4		3 3	2.5	
B4	Sunny	Moderate	16:54	Surface	1	5.1 5.0	5.1	5.9	4 4	4.0	4.8
				Middle	6	5.9 5.6	5.8		4 4	4.0	
				Bottom	11	6.6 6.8	6.7		6 7	6.5	
C1	Sunny	Moderate	15:48	Surface	1	3.9 4.3	4.1	4.4	4 4	4.0	3.7
				Middle	6	4.4 4.5	4.5		4 5	4.5	
				Bottom	11	4.6 4.5	4.6		3 3	2.5	
C2	Sunny	Moderate	16:02	Surface	1	4.4 4.3	4.4	5.4	3 3	3.0	3.3
				Middle	6	5.3 5.4	5.4		4 4	4.0	
				Bottom	11	6.4 6.5	6.5		3 3	3.0	
C3	Sunny	Moderate	16:16	Surface	1	3.6 3.5	3.6	4.2	6 7	6.5	4.3
				Middle	6.5	4.1 4.3	4.2		4 4	4.0	
				Bottom	12	4.7 4.8	4.8		3 3	2.5	
C5	Sunny	Moderate	15:34	Surface	1	5.0 5.3	5.2	5.9	4 4	4.0	6.5
				Middle	6.5	5.8 5.8	5.8		7 7	7.0	
				Bottom	12	6.6 6.5	6.6		9 8	8.5	

Remarks: *DA: Depth-Averaged
**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.



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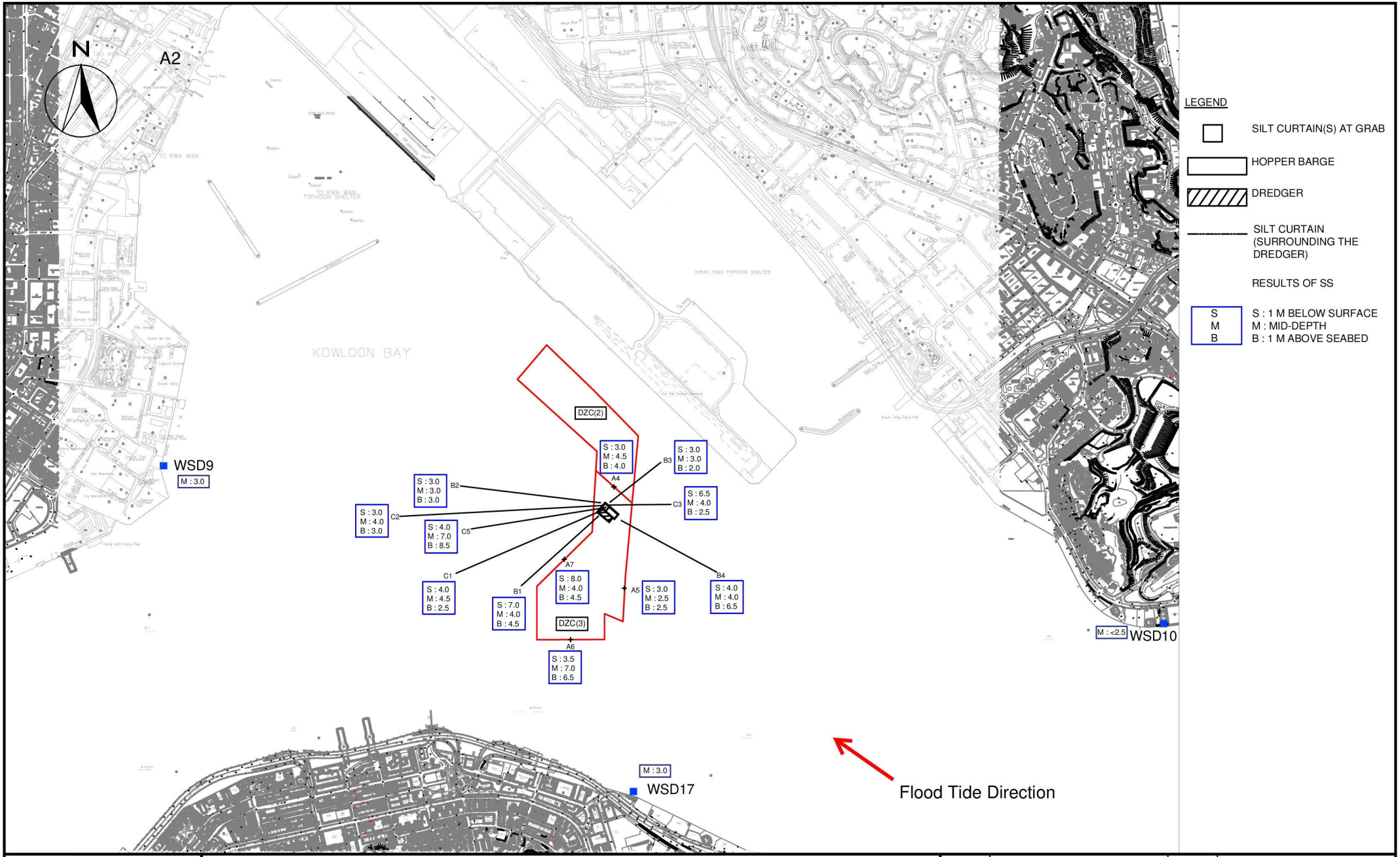
CONTRACT NO. KL/2013/01 - SITE FORMATION FOR KAI TAK CRUISE TERMINAL DEVELOPMENT - REMAINING WORKS

WATER QUALITY SURVEILLANCE SYSTEM - 14 October 2015 (Ebb Tide)

SCALE	N.T.S.	DATE	OCT 15
CHECK	IT	DRAWN	KC
JOB No.	MA15011	APPENDIX	F
		REV	-



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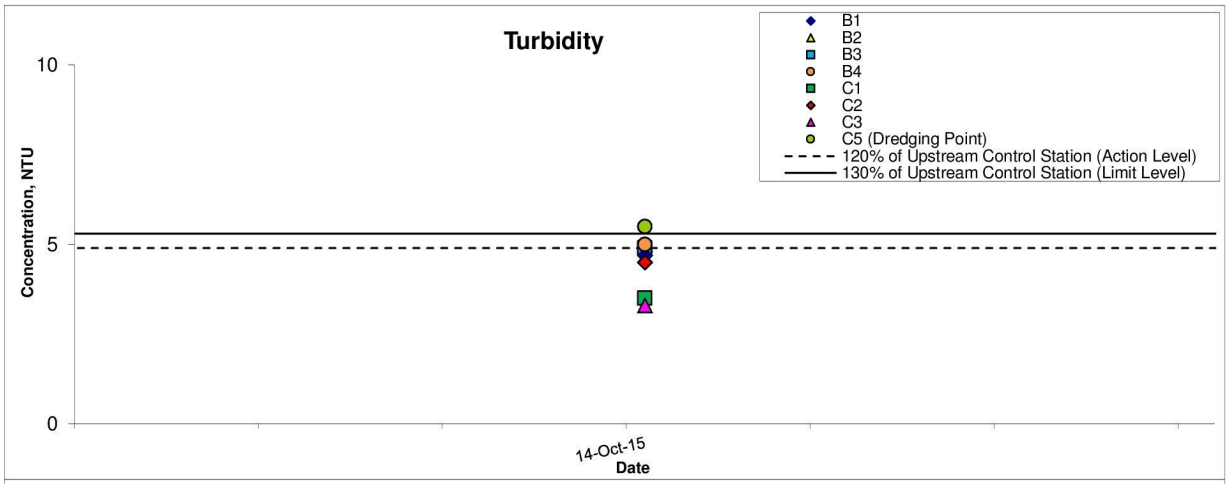
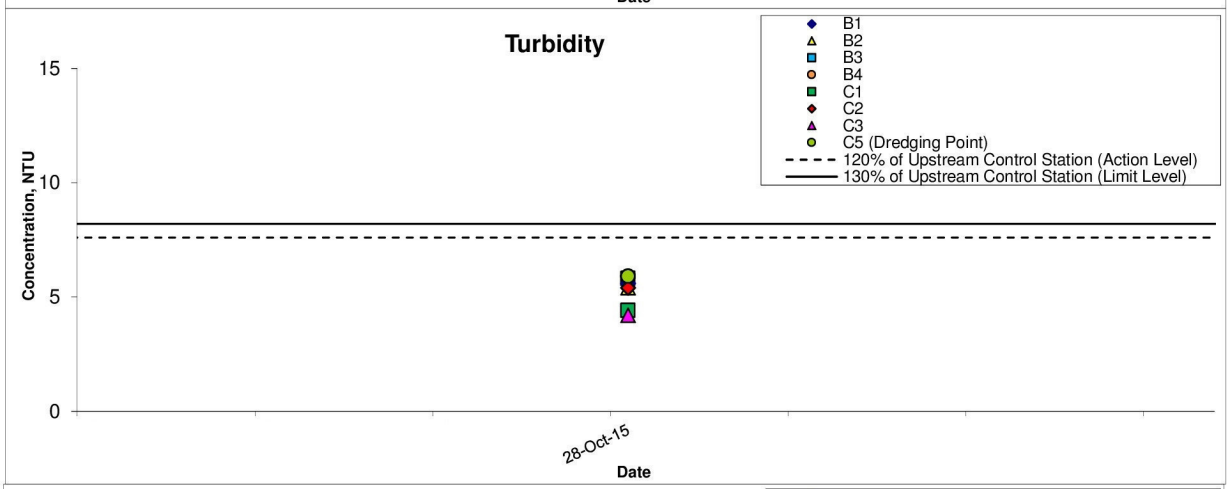
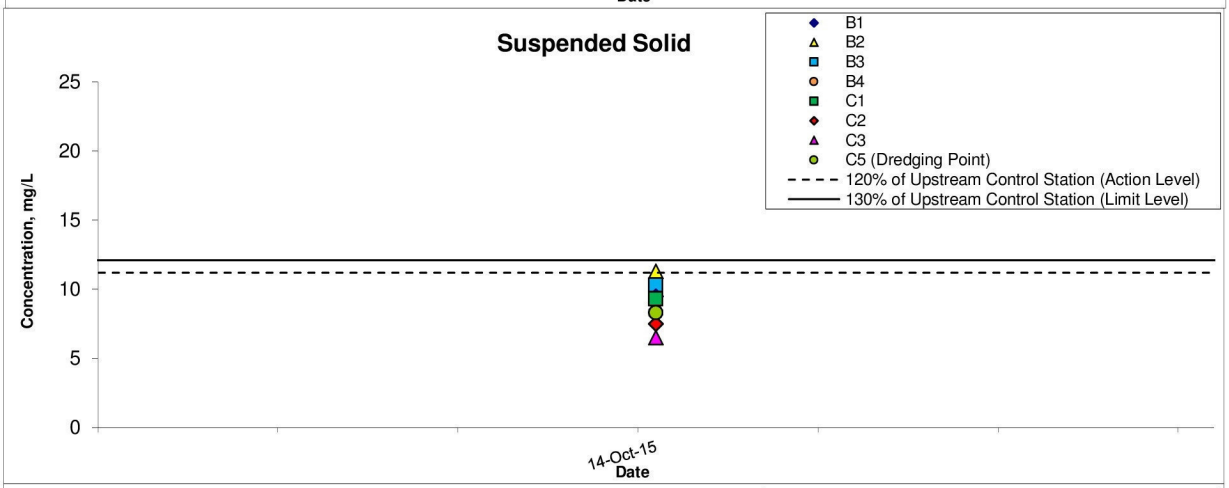
CONTRACT NO. KL/2013/01 - SITE FORMATION FOR KAI TAK CRUISE TERMINAL DEVELOPMENT - REMAINING WORKS

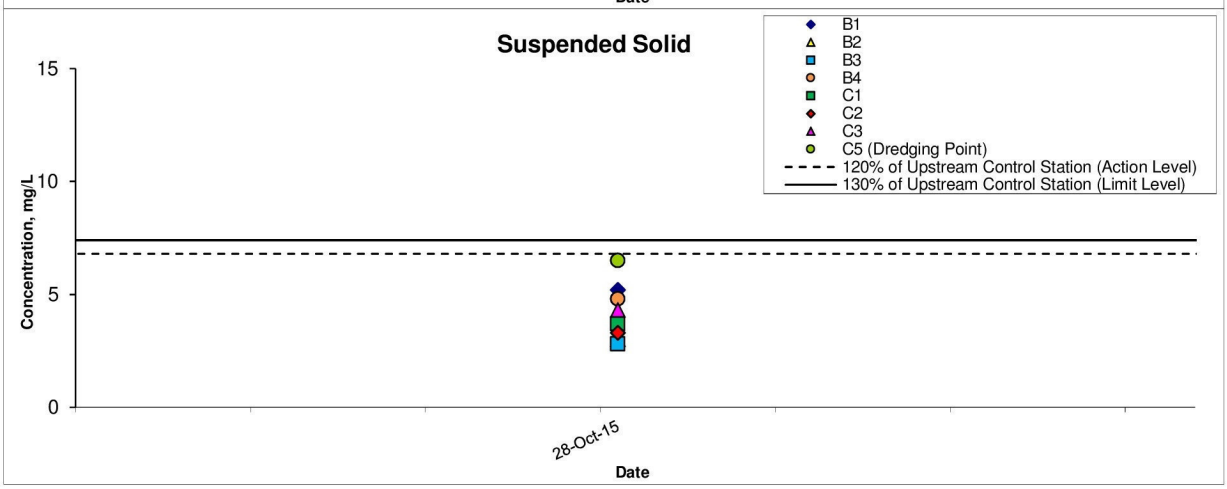
WATER QUALITY SURVEILLANCE SYSTEM - 28 October 2015 (Flood Tide)

SCALE	N.T.S.	DATE	OCT 15
CHECK	IT	DRAWN	KC
JOB No.	MA15011	APPENDIX	F
		REV	-









Remarks: A4 was taken as upstream control station on 14 October 2015, and A5 and A6 were taken as upstream control station 28 October 2015 respectively.
The Action and Limit Levels for water quality surveillance system were derived from 120% of 130% of upstream control stations's SS/turbidity in depth average at the same tide of the same day.

Title		Scale	Project No.
Contract No. KL/2013/01 - Site Formation For Kai Tak Cruise Terminal Development - Remaining Works		N.T.S	MA15011
Graphical Presentation of Water Quality Surveillance System Results		Date: Oct-15	Appendix: F

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APPENDIX G
EVENT ACTION PLANS

Appendix G - Event and Action Plan for Water Quality

Event	ET	IEC	ER	Contractor
Action level being exceeded by one sampling day	1. Repeat *in situ* measurement to confirm findings; 2. Identify source(s) of impact; 3. Inform IEC and Contractor; 4. Check monitoring data, all plant, equipment and Contractor's working methods. 5. Discuss mitigation measures with IEC and Contractor; 6. (The above actions should be taken within 1 working day after the exceedance is identified) 7. Repeat measurement on next day of exceedance.	1. Discuss with ET and Contractor on the mitigation measures; 2. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; 3. Assess the effectiveness of the implemented mitigation measures. 4. (The above actions should be taken within 1 working day after the exceedance is identified)	1. Discuss with IEC on the proposed mitigation measures; 2. Make agreement on the mitigation measures to be implemented. 3. (The above actions should be taken within 1 working day after the exceedance is identified)	1. Inform ER and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Review the working methods and consider additional measures such as use of frame-type silt curtain, deployment of double silt curtains, slowing down, or rescheduling of works; 5. Discuss with ET and IEC and proposed mitigation measures to IEC and ER; 6. Implement the agreed mitigation measures. 7. (The above actions should be taken within 1 working day after the exceedance is identified)
Action level being exceeded by more than one	1. Identify source(s) of impact; 2. Inform IEC and Contractor;	1. Discuss with ET and Contractor on the mitigation measures;	1. Discuss with IEC on the proposed mitigation measures;	1. Inform ER and confirm notification of the non-compliance in writing;

Appendix G - Event and Action Plan for Water Quality

Event	ET	IEC	ER	Contractor
consecutive sampling days	3. Check monitoring data, all plant, equipment and Contractor's working methods. 4. Discuss mitigation measures with IEC and Contractor; 5. Ensure mitigation measures are implemented; 6. Prepare to increase the monitoring frequency to daily; 7. (The above actions should be taken within 1 working day after the exceedance is identified) 8. Repeat measurement on next day of exceedance.	2. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; 3. Assess the effectiveness of the implemented mitigation measures. 4. (The above actions should be taken within 1 working day after the exceedance is identified)	2. Make agreement on the mitigation measures to be implemented. 3. Assess the effectiveness of the implemented mitigation measures. 4. (The above actions should be taken within 1 working day after the exceedance is identified)	2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Review the working methods and consider additional measures such as use of frame-type silt curtain, deployment of double silt curtains, slowing down, or rescheduling of works; 5. Discuss with ET and IEC and proposed mitigation measures to IEC and ER within 3 working days; 6. Implement the agreed mitigation measures. 7. (The above actions should be taken within 1 working day after the exceedance is identified)
Limit level being exceeded by one sampling day	1. Repeat *in situ* measurement to confirm findings; 2. Identify source(s) of impact; 3. Inform IEC, Contractor and EPD; 4. Check monitoring data, all plant,	1. Discuss with ET and Contractor on the mitigation measures; 2. Review proposals on mitigation measures submitted by Contractor and	1. Discuss with IEC, ET and Contractor on the proposed mitigation measures; 2. Request Contractor to critically review the	1. Inform ER and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment;

Appendix G - Event and Action Plan for Water Quality

Event	ET	IEC	ER	Contractor
	equipment and Contractor's working methods. 5. Discuss mitigation measures with IEC, ER and Contractor; 6. Ensure mitigation measures are implemented; 7. Increase the monitoring frequency to daily until no exceedance of Limit Level. 8. (The above actions should be taken within 1 working day after the exceedance is identified)	advise the ER accordingly; 3. Assess the effectiveness of the implemented mitigation measures. 4. (The above actions should be taken within 1 working day after the exceedance is identified)	working methods; 3. Make agreement on the mitigation measures to be implemented. 4. Assess the effectiveness of the implemented mitigation measures. 5. (The above actions should be taken within 1 working day after the exceedance is identified)	4. Review the working methods and consider additional measures such as use of frame-type silt curtain, deployment of double silt curtains, slowing down, or rescheduling of works; 5. Discuss with ET and IEC and ER and proposed mitigation measures to IEC and ER within 3 working days; 6. Implement the agreed mitigation measures. 7. (The above actions should be taken within 1 working day after the exceedance is identified)
Limit level being exceeded by more than one consecutive sampling days	1. Identify source(s) of impact; 2. Inform IEC, Contractor and EPD; 3. Check monitoring data, all plant, equipment and Contractor's working methods. 4. Discuss mitigation measures with IEC, ER and Contractor;	1. Discuss with ET and Contractor on the mitigation measures; 2. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; 3. Assess the effectiveness of	1. Discuss with IEC, ET and Contractor on the proposed mitigation measures; 2. Request Contractor to critically review the working methods; 3. Make agreement on the mitigation measures to be	1. Inform ER and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Review the working methods and consider additional measures such as use of

Appendix G - Event and Action Plan for Water Quality

Event	ET	IEC	ER	Contractor
	5. Ensure mitigation measures are implemented; 6. Increase the monitoring frequency to daily until no exceedance of Limit Level for two consecutive days. 7. (The above actions should be taken within 1 working day after the exceedance is identified)	the implemented mitigation measures. 4. (The above actions should be taken within 1 working day after the exceedance is identified)	implemented. 4. Assess the effectiveness of the implemented mitigation measures. 5. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine work until no exceedance of Limit level. 6. (The above actions should be taken within 1 working day after the exceedance is identified)	frame-type silt curtain, deployment of double silt curtains, slowing down, or rescheduling of works; 5. Discuss with ET and IEC and ER and proposed mitigation measures to IEC and ER within 3 working days; 6. Implement the agreed mitigation measures. 7. As directed by the Engineer, to slow down or to stop all or part of construction activities. 8. (The above actions should be taken within 1 working day after the exceedance is identified)

APPENDIX H
SUMMARY OF EXCEEDANCE

Appendix H - Exceedance Report

Exceedance Report for Water Quality

Environmental Monitoring	Parameter	No. of Exceedance		No. of Exceedance related to the Dredging Activities of this Project	
		Action Level	Limit Level	Action Level	Limit Level
Water Quality	Turbidity	0	0	0	0
	Suspended Solids (SS)	0	0	0	0

APPENDIX I
SITE AUDIT SUMMARY

Record Summary of Environmental Site Inspection

Inspection Information

Checklist Reference Number	151006
Date	6 October 2015 (Tuesday)
Time	14:30 - 16:15

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
151006-R01	***A. Water Quality*** • Clear the sand accumulated on the ground near the drip tray to prevent muddy runoff generation. (Area 2). ***B. Air Quality*** • No environmental deficiency was identified during the site inspection. ***C. Noise*** • No environmental deficiency was identified during the site inspection. ***D. Waste / Chemical Management*** • No environmental deficiency was identified during the site inspection. ***E. Cultural Heritage Measures*** • No environmental deficiency was identified during the site inspection. ***F. Permits / Licences*** • No environmental deficiency was identified during the site inspection. ***G. Others*** • Follow-up on the previous audit session (Ref. No. 150929), all environmental deficiency was rectified/improved by the Contractor.	B 19

	Name	Signature	Date
Recorded by	KC Chung		6 October 2015
Checked by	Dr. Priscilla Choy		6 October 2015

Record Summary of Environmental Site Inspection

Inspection Information

Checklist Reference Number	151015
Date	15 October 2015 (Tuesday)
Time	14:30 - 16:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
	A. Water Quality • No environmental deficiency was identified during the site inspection. ***B. Air Quality*** • No environmental deficiency was identified during the site inspection. ***C. Noise*** • No environmental deficiency was identified during the site inspection. ***D. Waste / Chemical Management*** • No environmental deficiency was identified during the site inspection. ***E. Cultural Heritage Measures*** • No environmental deficiency was identified during the site inspection. ***F. Permits / Licences*** • No environmental deficiency was identified during the site inspection. ***G. Others*** • Follow-up on the previous audit session (Ref. No. 151006), all environmental deficiency was rectified/improved by the Contractor.	

	Name	Signature	Date
Recorded by	KC Chung		15 October 2015
Checked by	Dr. Priscilla Choy		15 October 2015

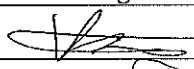
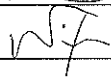
Record Summary of Environmental Site Inspection

Inspection Information

Checklist Reference Number	151022
Date	22 October 2015 (Thursday)
Time	14:00 - 15:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
	A. Water Quality • No environmental deficiency was identified during the site inspection. ***B. Air Quality*** • No environmental deficiency was identified during the site inspection. ***C. Noise*** • No environmental deficiency was identified during the site inspection. ***D. Waste / Chemical Management*** • No environmental deficiency was identified during the site inspection. ***E. Cultural Heritage Measures*** • No environmental deficiency was identified during the site inspection. ***F. Permits / Licences*** • No environmental deficiency was identified during the site inspection. ***G. Others*** • Follow-up on the previous audit session (Ref. No. 151015), all environmental deficiency was rectified/improved by the Contractor.	

	Name	Signature	Date
Recorded by	Victor Wong		22 October 2015
Checked by	Dr. Priscilla Choy		22 October 2015

Record Summary of Environmental Site Inspection

Inspection Information

Checklist Reference Number	151028
Date	28 October 2015 (Wednesday)
Time	14:30 - 16:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
151028-R01	***A. Water Quality*** • No environmental deficiency was identified during the site inspection. ***B. Air Quality*** • No environmental deficiency was identified during the site inspection. ***C. Noise*** • No environmental deficiency was identified during the site inspection. ***D. Waste / Chemical Management*** • Chemical label should be provided for chemical containers stored on the dredger ***E. Cultural Heritage Measures*** • No environmental deficiency was identified during the site inspection. ***F. Permits / Licences*** • No environmental deficiency was identified during the site inspection. ***G. Others*** • Follow-up on the previous audit session (Ref. No. 151022), all environmental deficiency was rectified/improved by the Contractor.	E 3 i

	Name	Signature	Date
Recorded by	KC Chung		28 October 2015
Checked by	Dr. Priscilla Choy		28 October 2015

APPENDIX J
UPDATED ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

Appendix J –Updated Environmental Mitigation Implementation Schedule

EIA Ref.	Recommended Mitigation Measures	Implementation Agent	Location/ Timing of the measures	Implementation Stage	Implementation Status
Air Quality					
S3.6	Requirements of the Air Pollution Control (Construction Dust) Regulation shall be adhered to during the construction period.	Contractor for capital dredging	Work site/ during dredging in the construction stage and maintenance dredging during operation stage	Construction stage	^
S3.6	In order to minimize the potential odour emissions, if any, the dredged sediment placed on barge should be properly covered as far as practicable to minimize the exposed area and hence the potential odour emissions during the transportation of the dredged sediment.	Contractor for capital and maintenance dredging	Work site/ during dredging in the construction stage and maintenance dredging during operation stage	Construction stage and Operation stage	^
Construction Noise (Air borne)					
S4.8	Good Site Practices: • Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program. • Mobile plant, if any, should be sited as far away from NSRs as possible. • Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum. • Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. • Material stockpiles and other structures should effectively utilized, wherever practicable, in screening noise from on-site construction activities.	Contractor for capital and maintenance dredging	Work site/ during dredging in the construction stage and maintenance dredging during operation stage	Construction stage and Operation stage	^ ^ ^ ^ ^ ^
S4.9	If there is any planned NSRs within 300 m from the work area occupied during the dredging period, an EM&A programme is recommended to be	Developer of cruise terminal	Representative NSRs at the former Kai Tak Airport runway/ Prior and	Construction Stage and Operation stage	N/A

Appendix J –Updated Environmental Mitigation Implementation Schedule

EIA Ref.	Recommended Mitigation Measures	Implementation Agent	Location/ Timing of the measures	Implementation Stage	Implementation Status
	established according to the predicted occurrence of noisy activities. All the recommended mitigation measures for daytime normal working activities should be incorporated into the EM&A programme for implementation during dredging.		during the capital and maintenance dredging		
Water Quality					
S5.9	• Dredging will be carried out by closed grab dredger to minimize release of sediment and other contaminants during both capital and maintenance dredging. • The maximum production rate for dredging from the seabed to provide necessary manoeuvering area would not be more than 4,000m^3 per day (and no more than 2 closed grab dredgers) during capital dredging and 2,000m^3 per day maintenance dredging. • The maximum production rate for dredging at or near the seawall area would not be more than 4,000m^3 per day for berth construction. No more than two closed grab dredger would be operated at the same time at or near the seawall for berth construction.	Contractor for capital and maintenance dredging	Work site/ during dredging in the construction stage and maintenance dredging during operation stage	Construction Stage and Operation stage	^ ^ ^
S5.9	Silt curtains should be deployed around the closed grab dredgers used for dredging at and near the existing seawall of the former Kai Tak runway for construction of the cruise berth structures.	Contractor for capital dredging	Work site/ during dredging in the construction stage	Construction stage	^
S5.9	Silt screens should be installed at the WSD flushing water intakes at Cha Kwo Ling, Sai Wan Ho, Quarry Bay, Sheung Wan, Wan Chai and Tai Wan for dredging in the manoeuvring basin of the first berth during the capital dredging	Contractor for capital dredging	Seawater intakes in Victoria Harbour/ During the construction of cruise terminal	Construction stage	^

Appendix J –Updated Environmental Mitigation Implementation Schedule

EIA Ref.	Recommended Mitigation Measures	Implementation Agent	Location/ Timing of the measures	Implementation Stage	Implementation Status
S5.9	Silt screens should be installed at the WSD flushing water intakes at Cha Kwo Ling, Quarry Bay, and Tai Wan for dredging in the manoeuvring basin of the second berth during the capital dredging.	Contractor for capital dredging	Seawater intakes in Victoria Harbour/ During the construction of cruise terminal	Construction stage	^
S5.9	If the opening has been introduced at the northern runway, silt screen should also be installed at the WSD flushing water intake at Sai Wan Ho, Sheung Wan and Wan Chai for dredging in the manoeuvring basin of the second berth during the capital dredging.	CEDD	Seawater intake at Sai Wan Ho, Sheung Wan and Wan Chai/ During the construction of cruise terminal	Construction stage	^
S5.9	Other good site practices that should be undertaken during dredging include: • All vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; • All barges / dredgers should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; • Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds; • Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation.	Contractor for capital and maintenance dredging	Work site and adjacent waters/ during dredging in the construction stage and maintenance dredging during operation stage	Construction stage and Operation stage	^ ^ ^ ^
S5.9	Appropriate numbers or portable chemical toilets shall be provided by a licensed contractor to serve the construction workers over the construction site. The Contractor shall also be responsible for waste disposal and maintenance practices	Contractor for capital and maintenance dredging	Work site and adjacent waters/ during dredging in the construction stage and maintenance dredging during operation stage	Construction stage and Operation stage	^

Appendix J –Updated Environmental Mitigation Implementation Schedule

EIA Ref.	Recommended Mitigation Measures	Implementation Agent	Location/ Timing of the measures	Implementation Stage	Implementation Status
S5.9	Collection and removal of floating refuse should be performed at regular intervals on a daily basis. The Contractor should be responsible for keeping the water within the site boundary and the neighbouring water free from rubbish during the dredging works.	Contractor for capital and maintenance dredging	Work site and adjacent waters/ during dredging in the construction stage and maintenance dredging during operation stage	Construction stage and Operation stage	^
S5.9	An environmental monitoring and audit programme should be implemented to verify whether or not impact predictions are representative, and to ensure that all the recommended mitigation measures are implemented properly. If the water quality monitoring data indicate that the proposed dredging works result in unacceptable water quality impacts in the receiving water, appropriate actions should be taken to review the dredging operation and additional measures such as use of frame-type silt curtain, deployment of double silt curtains, slowing down, or rescheduling or works should be implemented as necessary.	Developer of cruise terminal	Selected water receiver points in Victoria Harbour/ Prior and during the construction of cruise terminal and maintenance dredging	Construction stage and Operation stage	^
S5.9	Silt screens are recommended to be deployed at six selected WSD flushing water intakes during the capital dredging. The Contractor for capital dredging shall demonstrate and ensure that the design of the silt screen will not affect the normal operation of flushing water intake. The Contractor shall obtain consensus from all relevant parties, including WSD and Marine Department on the design of the silt screen at each of the six selected flushing water intake points before installation of the silt screen and commencement of the proposed dredging works. As a mitigation measure to avoid the pollutant and refuse entrapment problems and to ensure that the impact monitoring results are representative, regular maintenance of the silt screens and refuse collection should be performed at the monitoring stations at regular	Contractor for capital dredging	Selected water receiver points in Victoria Habour/ during dredging in the constriction stage	Construction stage	^

Appendix J –Updated Environmental Mitigation Implementation Schedule

EIA Ref.	Recommended Mitigation Measures	Implementation Agent	Location/ Timing of the measures	Implementation Stage	Implementation Status
	intervals on a daily basis. The Contractor should be responsible for keeping the water behind the silt screen free from floating rubbish and debris during the impact monitoring period.				
Waste Management					
S6.7	*Good Site Practices* It is not anticipated that adverse waste management related impacts would arise, provided that good site practices are adhered to. Recommendations for good site practices during the dredging activities include: • Nomination of an approved person, such as a site manager, be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site. • Training of site personnel in proper waste management and chemical waste handling procedures. • Provision of sufficient waste disposal points and regular collection for disposal. • Appropriate measure to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers. • A recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites). • 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. • Encourage collection of aluminium cans, PET bottles and paper by	Contractor for capital and maintenance dredging	Work site/ during dredging in the construction stage and maintenance dredging during operation stage	Construction stage and Operation stage	^ ^ ^ ^ ^ ^

Appendix J –Updated Environmental Mitigation Implementation Schedule

EIA Ref.	Recommended Mitigation Measures	Implementation Agent	Location/ Timing of the measures	Implementation Stage	Implementation Status
	providing separate labeled bins to enable these wastes to be segregated from other general refuse generated by the work force. • Any unused chemicals or those with remaining functional capacity shall be recycled.				^
S6.7	*Marine Sediments* The dredged marine sediments would be loaded onto barges and transported to the designated disposal sites allocated by the MFC depending on their level of contamination. Sediment classified as Category L would be suitable for Type 1 –Open Sea Disposal (Dedicated Sites) or Type 2 –Confined Marine Disposal and must be dredged and transported with great care in accordance with ETWB TCW No. 34/2002. Subject to the final allocation of the disposal sites by MFC, the dredged contaminated sediment must be effectively isolated from the environment upon final disposal and shall be disposed of at the East Sha Chau Contaminated Mud Pits that are designated for the disposal of contaminated mud in Hong Kong.	Contractor for capital and maintenance dredging	Work site/ during dredging in construction stage and maintenance dredging during operation stage	Construction stage and Operation stage	^
S6.7	It will be the responsibility of the Contractor to satisfy the appropriate authorities that the contamination levels of the marine sediment to be dredged have been analysed and recorded. According to the ETWB TCW No. 34/2002, this will involve the submission of a formal Sediment Quality Report to the DEP, prior to the dredging contract being tendered. The Contractor for the dredging works shall apply for the allocation of marine sediment disposal sites from all relevant authorities.	Contractor for capital and maintenance dredging	Work site/ during dredging in the construction stage and maintenance dredging during operation stage	Construction stage and Operation stage	^
S6.7	During transportation and disposal of the dredged marine sediments requiring Type 1 and Type 2 disposal, the following measures shall be taken to minimize potential impacts on water quality:	Contractor for capital and maintenance dredging	Work site/ during dredging in the construction stage and maintenance dredging during operation stage	Construction stage and Operation stage	

Appendix J –Updated Environmental Mitigation Implementation Schedule

EIA Ref.	Recommended Mitigation Measures	Implementation Agent	Location/ Timing of the measures	Implementation Stage	Implementation Status
	• Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material. Excess material shall be cleaned from the decks and exposed fittings or barges and hopper dredgers before the vessel is moved. • Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the DEP. • Barges or hopper barges shall not be filled to a level that would cause the overflow of materials or sediment laden water during loading or transportation.				^ ^ ^
S6.7	*Chemical wastes* After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) should be handles according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals should be collected by a licensed collector for disposal at the CWTF or other licensed facility in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Contractor for capital and maintenance dredging	Work site/ during dredging in the construction stage and maintenance dredging during operation stage	Construction stage and Operation stage	*
S6.7	*General Refuse* General refuse should be stored in enclosed bins or compaction units separate from C&D material. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from C&D material. An enclosed and covered area is preferred to reduce the occurrence of 'wind blown' light material.	Contractor for capital and maintenance dredging	Work site/ during dredging in the construction stage and maintenance dredging during operation stage	Construction stage and Operation stage	^
S6.7	*Construction and Demolition Material* It is recommended that the extend of dredging of the existing seawall should be kept to a minimum in the detailed design of the new cruise terminal to minimize generation of C&D	Contractor for capital dredging	Work site/ during the construction period	Construction stage	

Appendix J –Updated Environmental Mitigation Implementation Schedule

EIA Ref.	Recommended Mitigation Measures	Implementation Agent	Location/ Timing of the measures	Implementation Stage	Implementation Status
	material. Mitigation measures and good site practices should be incorporated in the contract document to control potential environmental impact from handling and transportation of C&D material. The mitigation measures include:				^
	• Where it is unavoidable to have transient stockpiles of C&D material with the Project work site pending collection for disposal, the transient stockpiles shall be located away from waterfront or storm drains as far as possible.				
	• Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric.				^
	• Skip hoist for material transport should be totally enclosed by impervious sheeting.				^
	• Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving a construction site.				^
	• The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores.				^
	• The load of dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure dust materials do not leak from the vehicle.				^
	• All dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet.				^
	• The height from which excavated materials are dropped should be controlled to a minimum practical height to limit fugitive dust				^

Appendix J –Updated Environmental Mitigation Implementation Schedule

EIA Ref.	Recommended Mitigation Measures	Implementation Agent	Location/ Timing of the measures	Implementation Stage	Implementation Status
	generation from unloading.				
S6.7	When delivering inert C&D material to public fill reception facilities, the material shall consist entirely of inert construction waste and of size less than 250mm or other sizes as agreed with the Secretary of the Public Fill Committee. In order to monitor the disposal of the surplus C&D material at the designed public fill reception facility and to control fly tipping, a trip-ticket system should be included as one of the contractual requirements and implemented by an Environmental Team undertaking the Environmental Monitoring and Audit work. An Independent Environmental Checker should be responsible for auditing the results of the system.	Contractor and Independent Environmental Checker	Work site/ During the construction period	Construction stage	^
Cultural Heritage					
S7.8	The dredging activities of the proposed cruise terminal should ensure that disturbance to the existing seawall masonry outside the Project boundary should be avoided as far as practicable.	Developer of cruise terminal	Work site/ During the design and construction of cruise terminal	Design stage and Construction stage	^
7.10, Appendix 7.1	It is recommended that the dredged spoil should be monitored for the presence of archaeological material. Guidelines for the monitoring brief have been prepared in consultation with the AMO. A qualified marine archaeologist needs to be on standby to provide specialist advice, if required, but the monitoring can be carried out by a member of staff of dredging barge.	Developer of cruise terminal/ Contractor for capital dredging	Work site/ during dredging in the construction stage	During construction	^

Remarks: ^ Compliance of mitigation measure

* Recommendation was made during site audit but improved/rectified by the contractor

N/A Not Applicable at this stage as no such site activities were conducted in the reporting month

APPENDIX K
COMPLAINT LOG

Appendix K - Complaint Log

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
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