China International Water & Electric Corp

Contract No. CV/2013/02

CEDD Maintenance Contract for Seawalls and Navigation Channels (2013-2016)

Dredging at Cruise Terminal Stage 2

Quarterly EM&A Report

June to August 2014 (Version 1.0)

Certified By

Dr. Priscilla Choy

Environmental Team Leader (Date: 24 September 2014)

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 2nd Quarterly Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for the project "Contract No. CV/2013/02 – CEDD Maintenance Contract for Seawalls and Navigation Channels (2013 – 2016) Dredging at Cruise Terminal Stage 2" (hereinafter called the "Project"). This report documents the findings of EM&A Works in the period between June and August 2014.

Environmental Monitoring and Audit Progress

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

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

| Parameter(s) | Date(s) |
|-------------------------------|--|
| Water Quality Monitoring | 3 rd , 5 th , 7 th , 10 th , 12 th , 14 th , 16 th , 18 th , 20 th , 23 rd , 25 th , 27 th and 30 th June 2014 |
| | 2 nd , 4 th , 7 th , 9 th , 11 th , 14 th , 16 th , 22 nd , 24 th , 26 th , 28 th and 30 th July 2014 |
| | 1 st , 5 th , 7 th , 9 th , 11 th , 13 th , 15 th , 19 th , 21 st , 23 rd , 25 th , 27 th and 29 th August 2014 |
| Environmental Site Inspection | 5 th , 12 th , 19 th and 27 th June 2014 |
| | 3 rd , 9 th , 17 th , 23 rd and 31 st July 2014 |
| | 7 th , 14 th , 21 th and 28 th August 2014 |

Breaches of Action and Limit Levels

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

Table II Summary Table for Events Recorded in the Reporting Period

| | Parameter | | ceedance | No. of Ex related Dredging of this | to the Activities Project |
|-----------------------------|-----------------------|-----------------|----------------|---|---------------------------------|
| Environmental Monitoring | | 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 period except the water quality monitoring on 18th July 2014 which was cancelled due to adverse weather (Typhoon Signal No. 3). 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 period.

Notification of Summons and Successful Prosecutions

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

Reporting Changes

8. This report has been developed in compliance with the reporting requirements for the Quarterly 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. The dredging works were completed and no dredging operation will be carried out in the coming months.

1 INTRODUCTION

- 1.1 Cinotech Consultants Limited (Cinotech) was appointed by China International Water & Electric Corp (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. CV/2013/02 CEDD Maintenance Contract for Seawalls and Navigation Channels (2013 2016) Dredging at Cruise Terminal Stage 2" (hereinafter called the "Project") in accordance with EP Conditions 2.1.
- 1.2 The dredging works under the Project was commenced on 20th April 2014 and completed in August 2014.

Purpose of the report

1.3 This is the 2nd Quarterly EM&A report which summarises the monitoring results and audit findings for the EM&A programme in the period between June and August 2014.

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 period.
 - Section 3: **Environmental Monitoring and Audit Requirements -** summarises the monitoring parameters, monitoring frequency, monitoring locations, Action and Limit Levels, Event / Action Plans, site audit summary and environmental mitigation measures.
 - Section 4: **Environmental Monitoring Results -** summarises the environmental monitoring results in terms of water quality.
 - Section 5: **Environmental Non-conformance -** summarises any monitoring exceedance, environmental complaints, environmental summons and successful prosecutions within the reporting period.

Section 6: 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 terminalat 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 current Project involves a dredging operation exceeding 500,000m³ 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 and Stage 2 dredging works were commenced on 20th April 2014 and also completed in August 2014.

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) URS Hong Kong Ltd.
 - Contractor China International Water & Electric Corp (CIWEC)
 - 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 onsite 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 | |
| URS Hong Kong Ltd. | Engineer's Representative | Resident Engineer | Mr. Tsui Shiu Kai | 2148 7638 | 2148 7277 | |
| | | Project Manager | Mr. YF Cho | 2727 0128 | 2379 5931 | |
| CIWEC | Contractor | Site Agent | Mr. KM Mok | 2727 0128 | | |
| | | Environmental Officer | Mr. Jerry Lau | 6353 5489 | | |
| | Independent | | | | | |
| Fugro | 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 Period

- 2.9 The major site activities of the Project undertaken in the reporting period included: June 2014:
 - (a) Dredging down to level -12.0 mCD & disposal of a Designated Dumping Grounds
 - (b) Refuse collection at Tai Wan & Cha Kwo Ling WSD Flushing Water Intakes;
 - (c) Replace silt curtain at grab;
 - (d) Maintenance of silt curtains & silt screen; and
 - (e) Conduct interim surveys.

July 2014:

- (f) Dredging down to level -12.0 mCD & disposal of a Designated Dumping Grounds;
- (g) Refuse collection at Tai Wan & Cha Kwo Ling WSD Flushing Water Intakes;
- (h) Demobilization of all the plant & equipment and remove silt curtains & silt screens due to typhoon on 16 July 2014;

- (i) Replace the silt curtain at the boundary by small size silt curtain to bound the working area for trimming work from 12 July 2014;
- (j) Maintenance of silt curtains and silt screen; and
- (k) Conduct interim surveys.

August 2014:

- (l) Trimming work for the high spots down to level -12.0 mCD & disposal of at Designated Dumping Grounds;
- (m) Refuse collection at Tai Wan & Cha Kwo Ling WSD Flushing Water Intakes;
- (n) Maintenance of silt curtains & silt screen;
- (o) Conduct final surveys; and
- (p) Remove silt screen at Cha Kwo Ling Intake & Tai Wan Intake

Status of Environmental Licences, Notification and Permits

2.10 The valid environmental licenses and permits were attached in the Monthly EM&A Reports.

3 ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS

Monitoring Parameters and Monitoring Locations

3.1 The EM&A Manual designates locations for the ET to monitor environmental impacts in terms of water quality and noise to the Project. The monitoring locations are depicted in **Figures 2 and 3**. The details of monitoring requirements are presented in **Table 3.1**.

Table 3.1 Summary of Impact EM&A Requirements

| Type of Monitoring | Parameter | Location | Frequency | Depth |
|-----------------------|--|------------------------|--|-----------|
| Water Quality | 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) | WSD9 WSD10 WSD17 | 3 days per week, at mid-flood and mid- ebb tides during the course of dredging works | mid-depth |

Noise Monitoring

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

Table 3.2 Planned Noise Monitoring Stations during Construction Phase

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

3.4 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.

Monitoring Methodology and Calibration Details

3.5 Monitoring works/equipments were conducted/calibrated regularly in accordance with the EM&A Manual. Copies of calibration certificates are attached in the appendices of the Monthly EM&A Reports.

Environmental Quality Performance Limits (Action and Limit Levels)

3.6 The environmental quality performance limits, i.e. Action and Limit Levels were derived from the baseline monitoring results (except the Action and Limit Levels for underwater noise monitoring). Should the measured environmental quality parameters exceed the Action/Limit Levels, the respective action plans would be implemented. The Action/Limit Levels for each environmental parameter are given in **Table 3.3**.

Table 3.3 Action and Limit Levels for Water Quality Monitoring

| | Turbidity (NTU) | | | Suspended Solid (mg/L) | | | | |
|---------|-----------------|--------------------|--------|------------------------|--------|-------------|--------|--------|
| Station | Action | Action Level Limit | | Level Action Level | | Limit Level | | |
| Station | Dry | Wet | Dry | Wet | Dry | Wet | Dry | Wet |
| | Season | Season | Season | Season | Season | Season | Season | 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 |

Implementation Status of Environmental Mitigation Measures

- 3.7 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 D**.
- 3.8 Closed grab dredger was used for dredging works to minimize release sediment and other contaminants during dredging.
- 3.9 Dredging works under the Project was not carried out concurrently with the dredging works in Stage 1 area.
- 3.10 No more than two dredgers were used at the same time during the dredging and the total maximum dredging rate was not exceed 4,000m³ per day and 334m³ per hour.
- 3.11 Silt curtain was installed around the dredgers during the dredging operation.
- 3.12 Silt screen was installed at the Water Supplies Department's flushing water intakes at Cha Kwo Ling, Quarry Bay and Tai Wan.
- 3.13 Regular maintenance of the silt screens and refuse collection was performed at the silt screens on daily basis.

Site Audit Summary

3.14 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 observations and recommendations made during the reporting period are summarized in **Appendix E**.

Status of Waste Management

3.15 According to the Contractor, only marine sediment (Type 1 – Open Sea Disposal) were

generated and disposed during the reporting period.

3.16 The amount of marine sediment under the Project during the reporting period is shown in **Table 3.4**.

Table 3.4 Summary of Marine Sediment in Reporting Period

| Waste Type | Quantity in the Reporting Period, m³(Bulk Volume) | Cumulative-to-Date m³(Bulk Volume) | Disposal / Dumping Ground |
|-------------------|---|---------------------------------------|------------------------------|
| Marine Sediment | 81,500 | 124,000 | East of Sha Chau / |
| (Type1 – Open | | | The South of |
| Sea Disposal) | | | Brothers |
| Marine Sediment | 0 | 35,200 | The South of |
| (Type 1 – Open | | | Brothers |
| Sea Disposal | | | |
| (Dedicated Sites) | | | |
| and Type 2 – | | | |
| Confined Marine | | | |
| Disposal | | | |

4 ENVIRONMENTAL MONITORING RESULTS

Water Quality Monitoring Results

- 4.1 The graphical presentation of water quality at the monitoring stations is shown in **Appendix B**.
- 4.2 No Action/Limit Level exceedance was recorded for water quality.

5 ENVIRONMENTAL NON-CONFORMANCE (EXCEEDANCES)

Summary of Exceedances

- 5.1 Summary of exceedance is provided in **Appendix F**.
- 5.2 No Action/Limit Level exceedance was recorded for water quality.

Summary of Environmental Complaint

5.3 No environmental related complaint was received in the reporting period. The Complaint Log is attached in **Appendix G**.

Summary of Notification of Summons and Successful Prosecution

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

6 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

- 6.1 The Quarterly Environmental Monitoring and Audit (EM&A) Report presents the EM&A works undertaken in the period between June and August 2014 in accordance with EM&A Manual.
- 6.2 No Action/Limit Level exceedance was recorded for water quality.
- 6.3 Environmental site inspection was conducted on 5th, 12th, 19th and 27th June 2014, 3rd, 9th, 17th, 23rd and 31st July and 7th, 14th, 21th and 28th August by ET in the reporting period. All deficiencies identified during the site inspection have already rectified / improved during the follow-up audit session.
- 6.4 There were no environmental complaint, no notification of summons and successful prosecution received.
- 6.5 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.

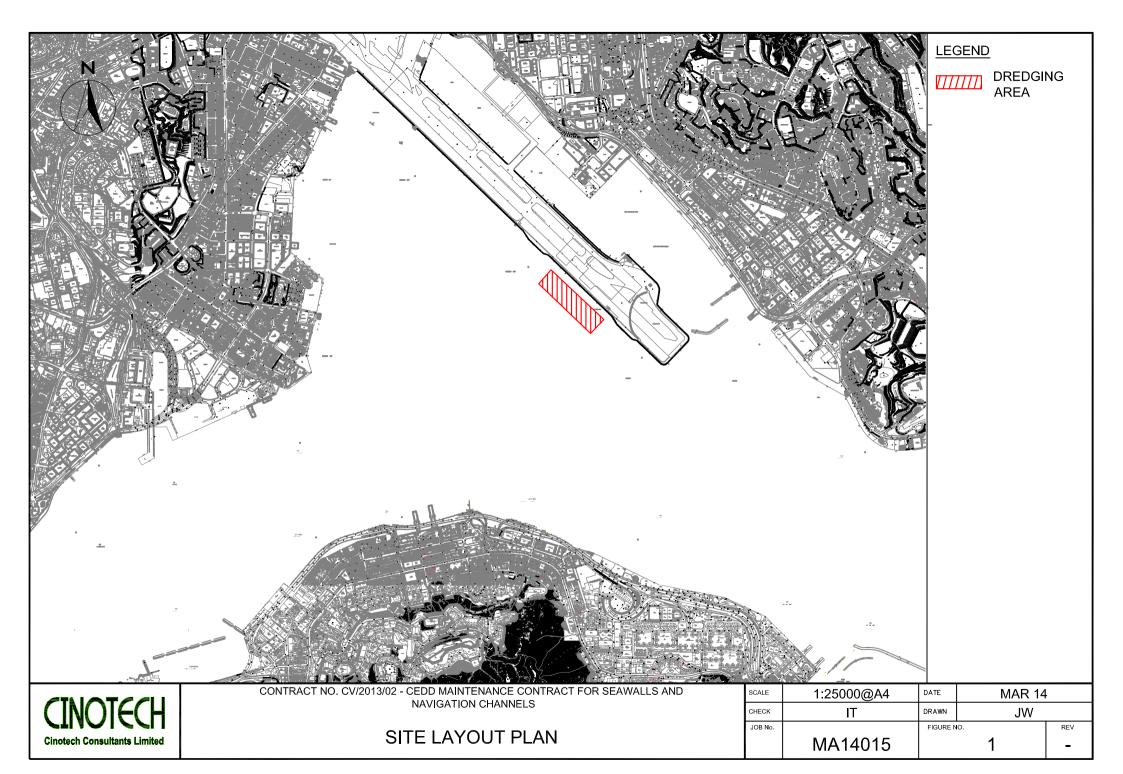
Recommendations

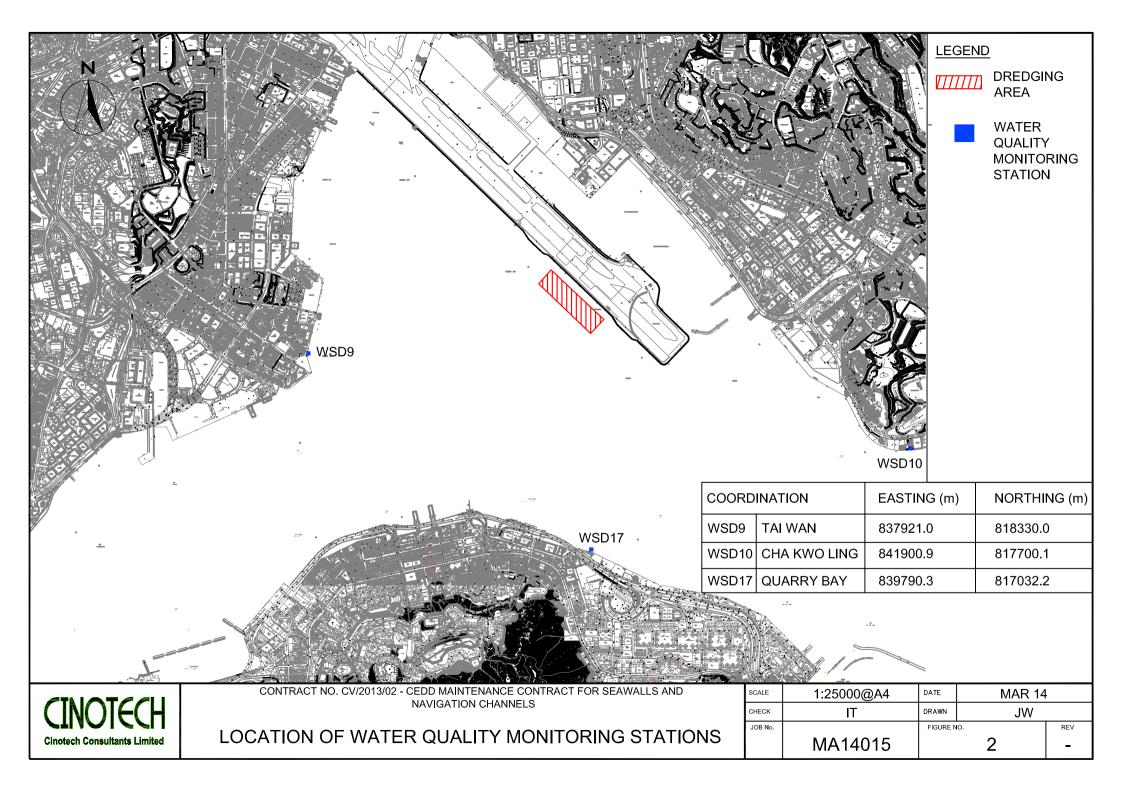
6.6 According to the environmental audit performed in the reporting period, the following recommendations were made:

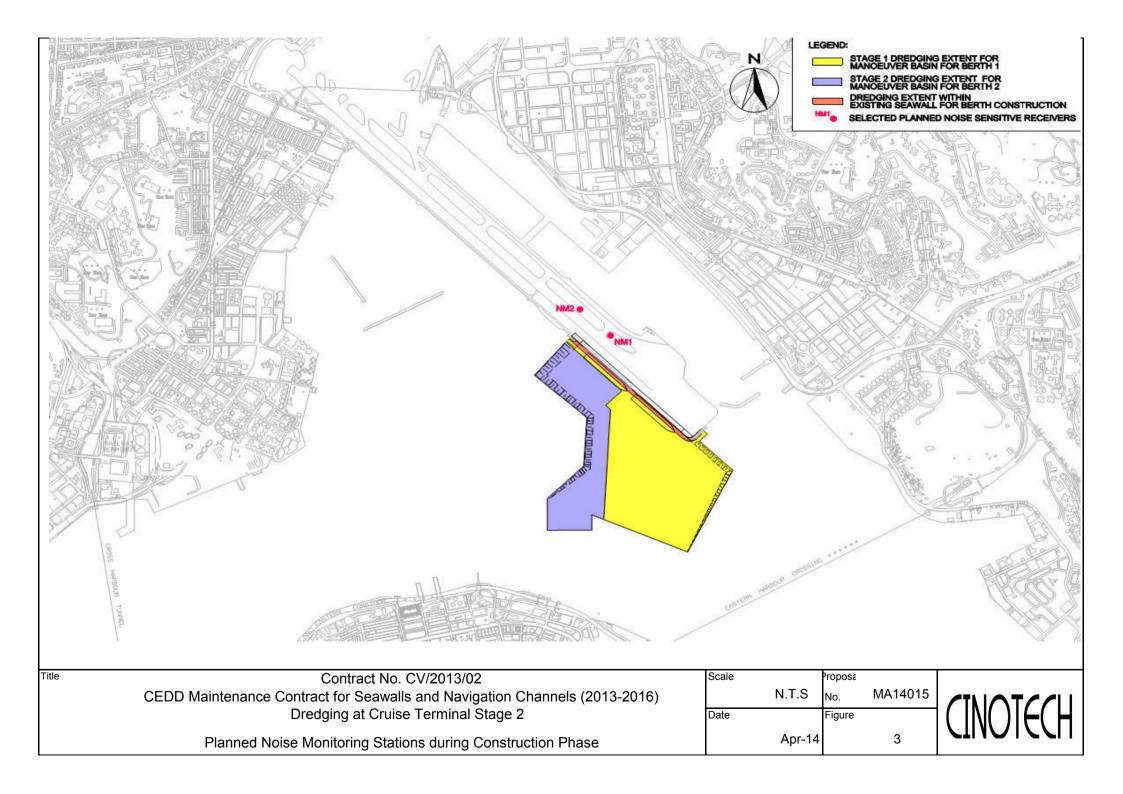
Water Impact

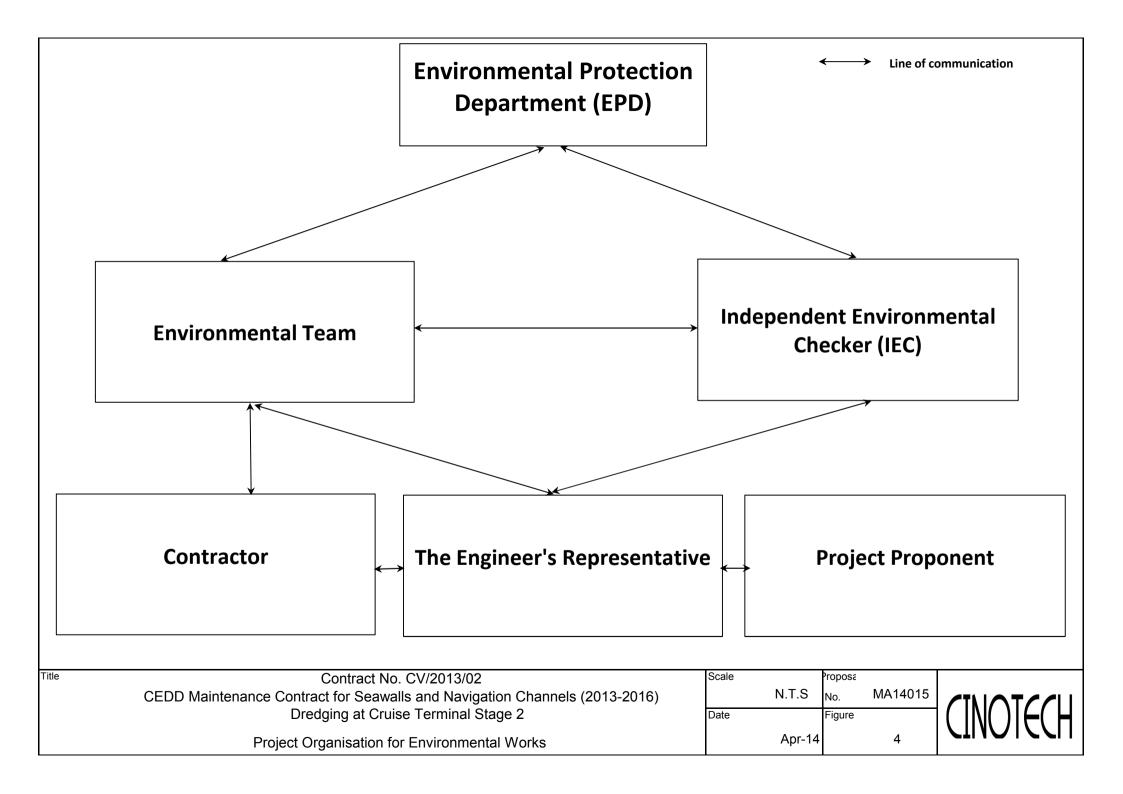
- To provide regularly check and maintenance for the silt curtain / screen throughout the dredging period.
- To ensure the grab dredger is tightly closed to avoid splashing of dredged materials.
- To clear the floating refuse at the silt screen at WSD flushing water intakes.
- 6.7 The dredging works were completed in August 2014, marine water quality monitoring will be continuous carried out to monitor the water quality and weekly site inspection will be also continuous conducted to check the following:-
 - Conditions of the Tai Wan, Cha Kwo Ling and Quarry Bay WSD Flushing Water Intakes.
 - Conditions of site area.
 - Environmental situation outside the site area.

FIGURE(S)





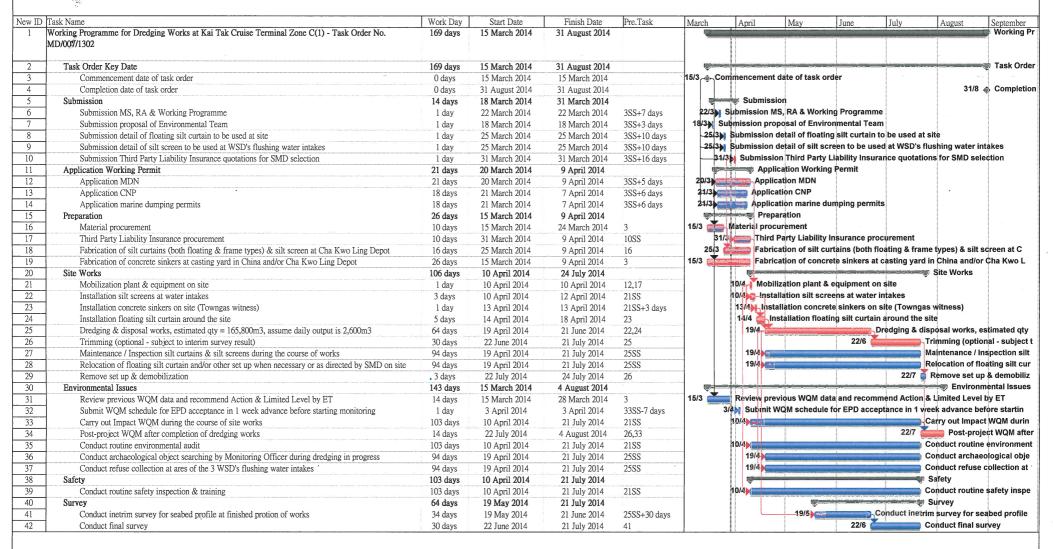




APPENDIX A CONSTRUCTION PROGRAMME

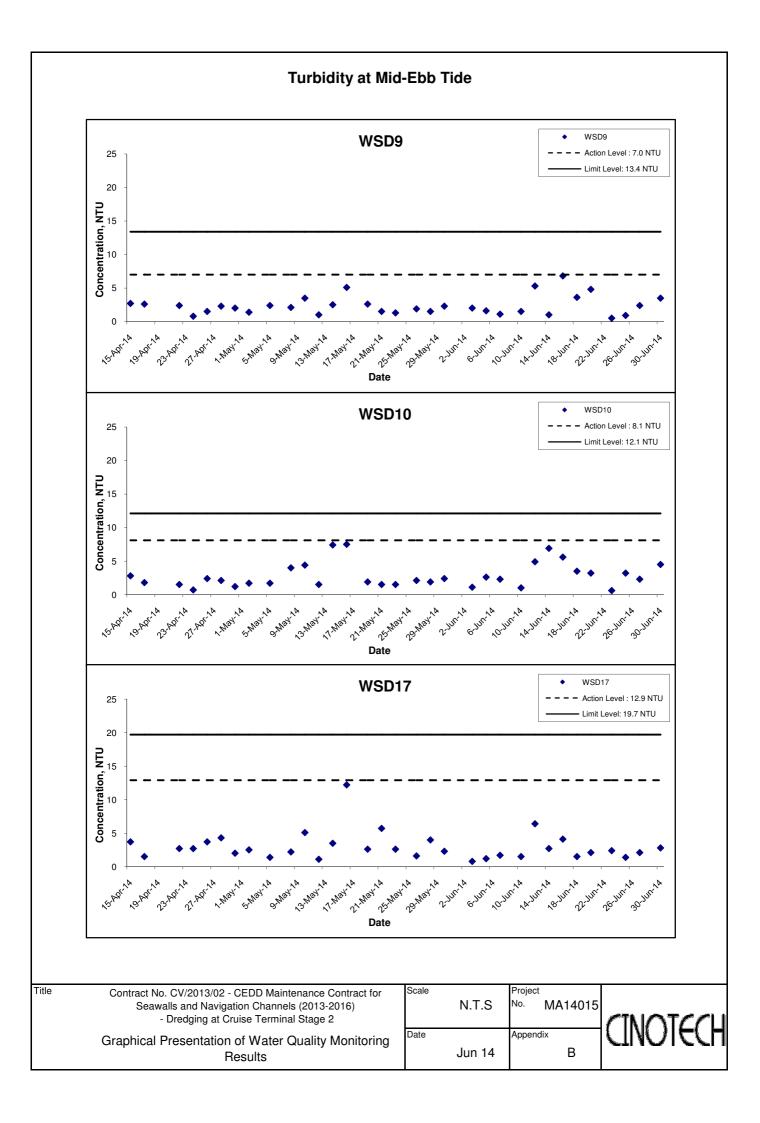
Contract No. : CV/2013/02

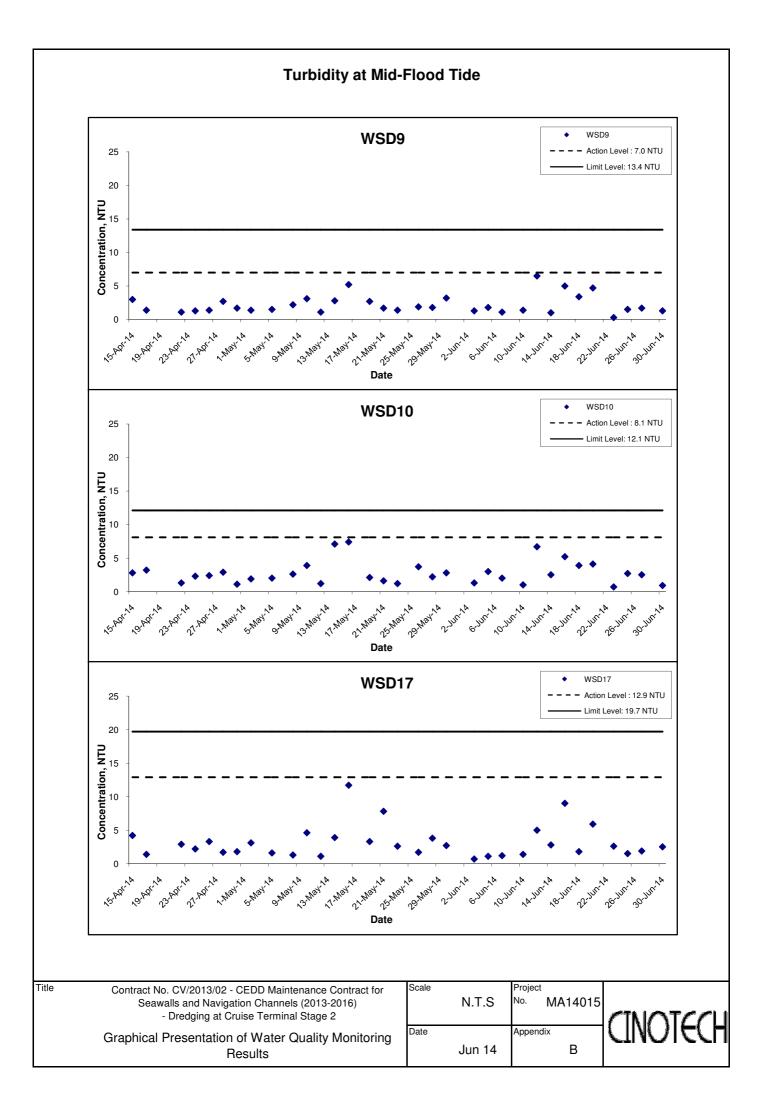
Contract Title: CEDD Maintenance Contract for Seawalls and Navigation Channels (2013-2016)

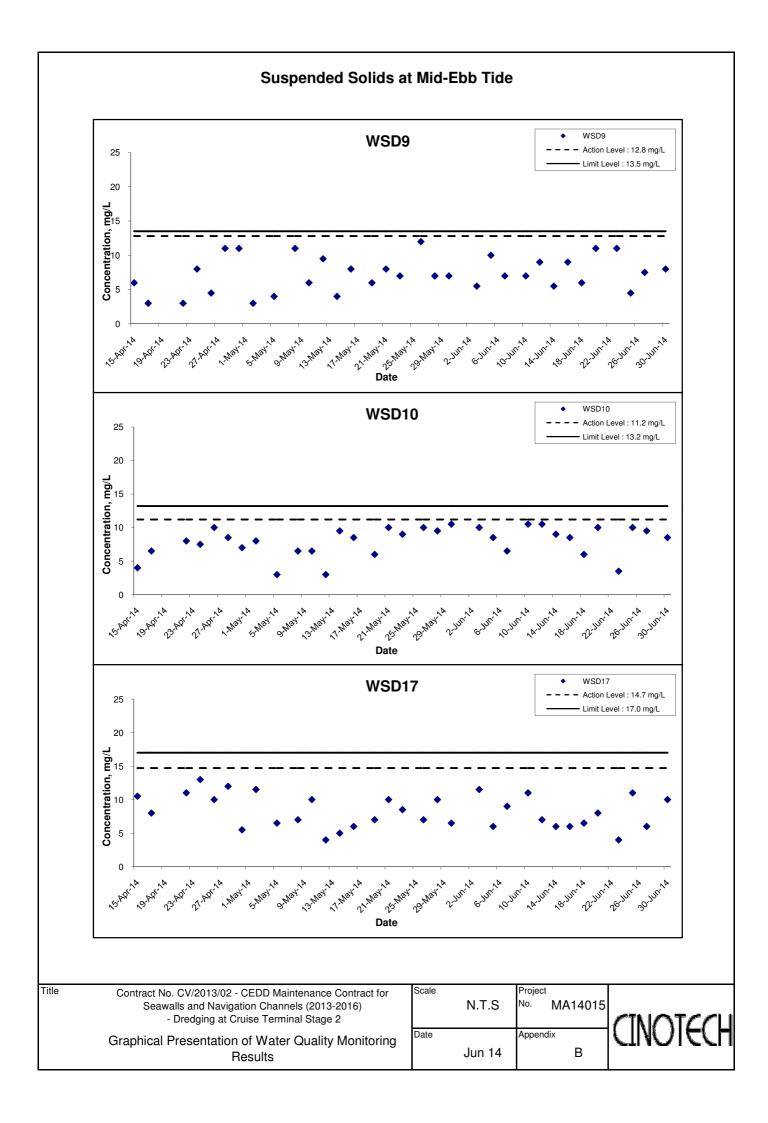


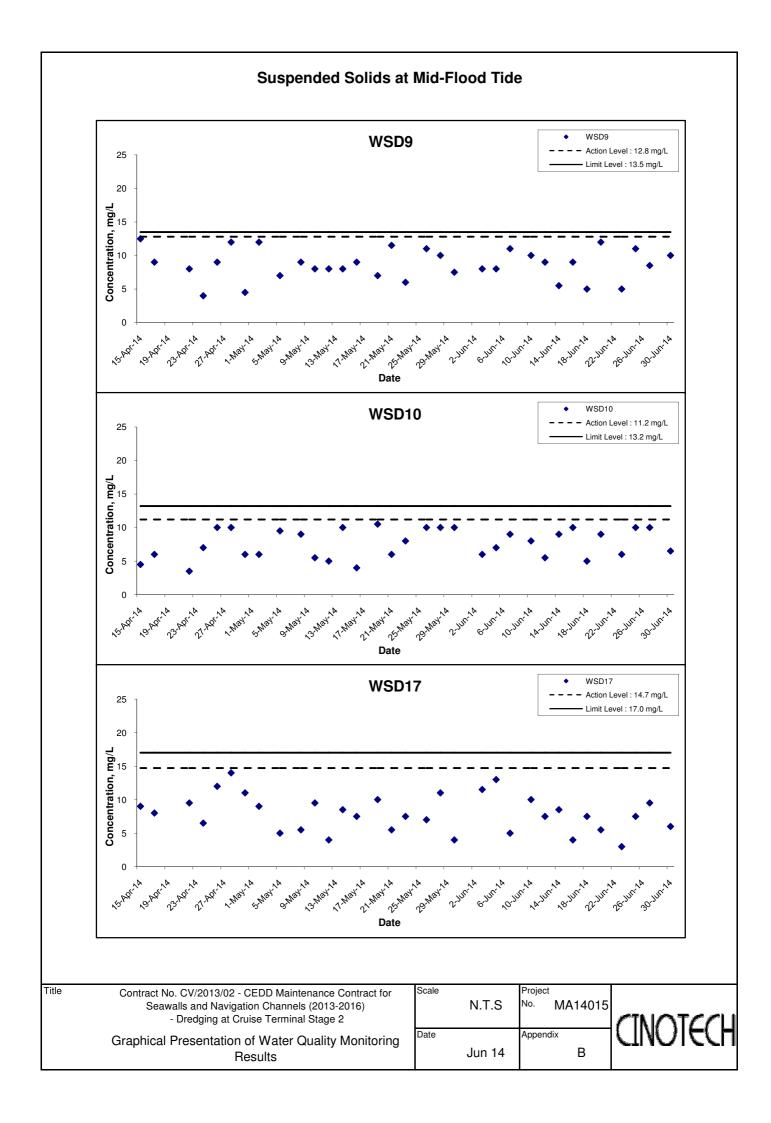


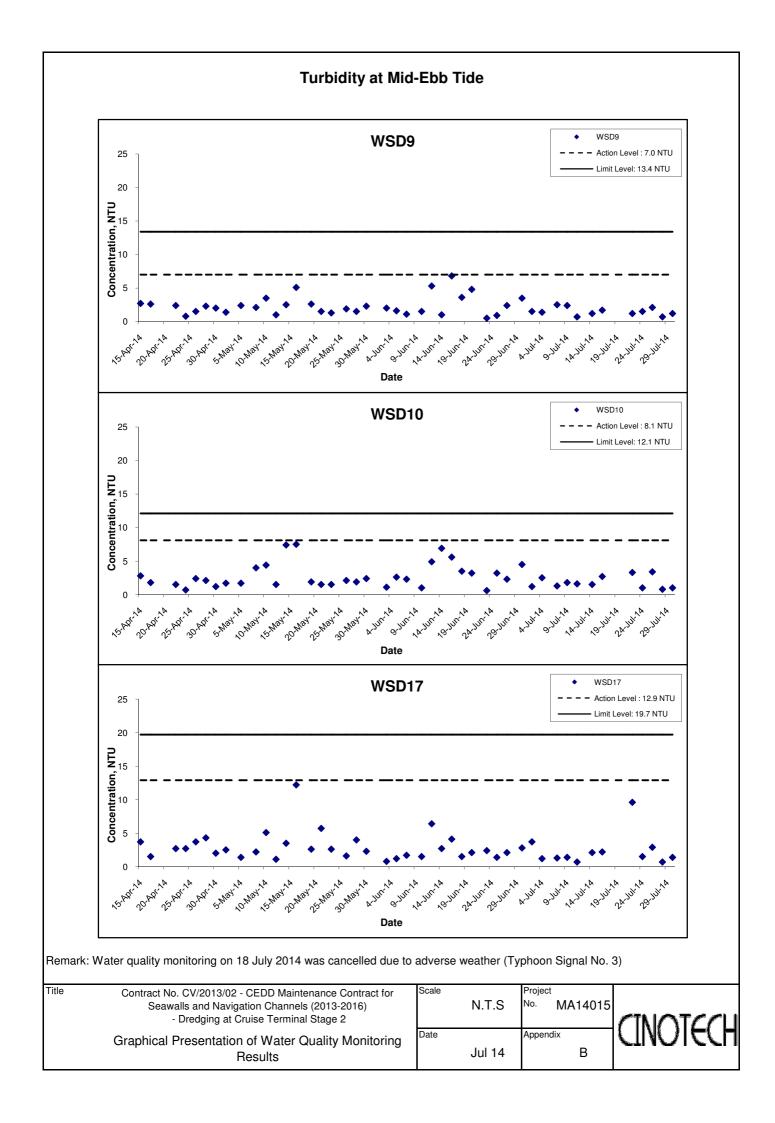
APPENDIX B GRAPHICAL PRESENTATION OF WATER QUALITY MONITORING RESULTS

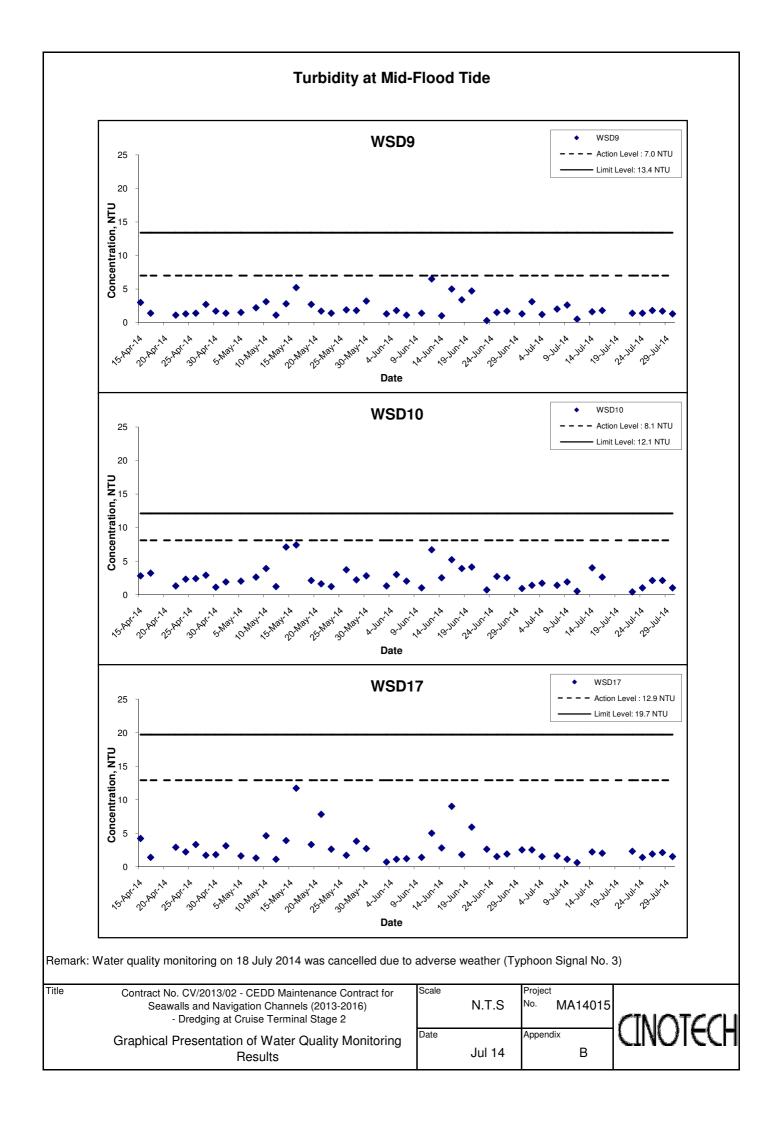


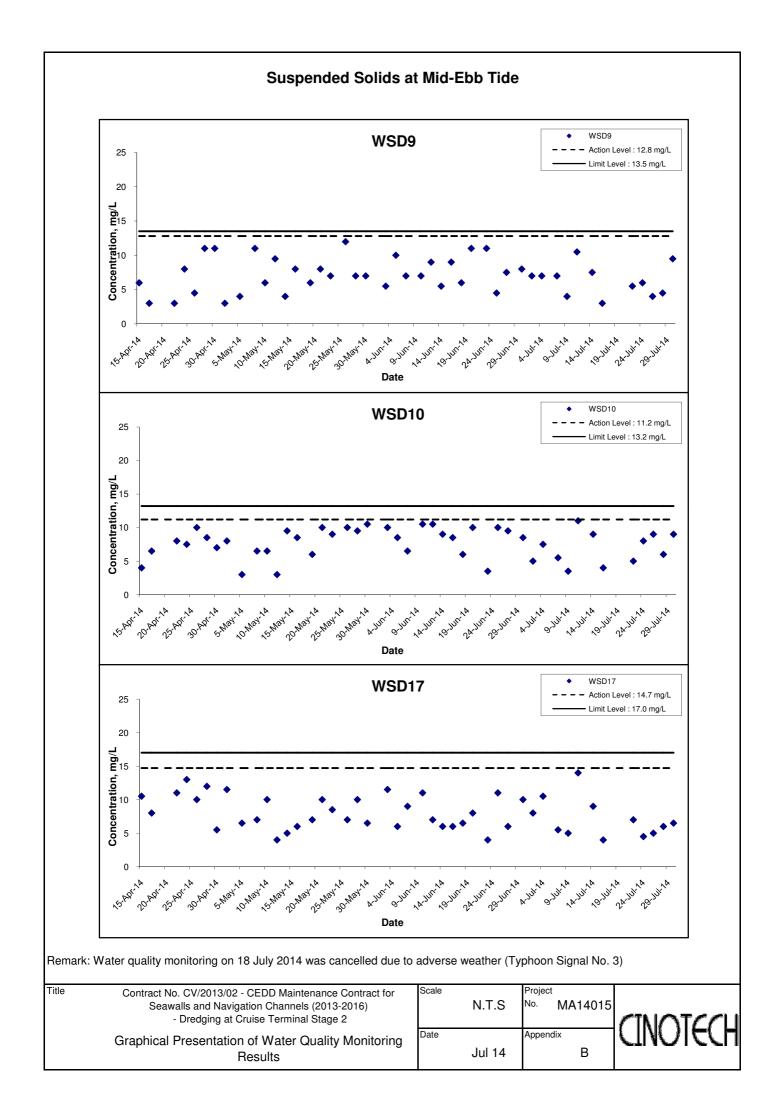










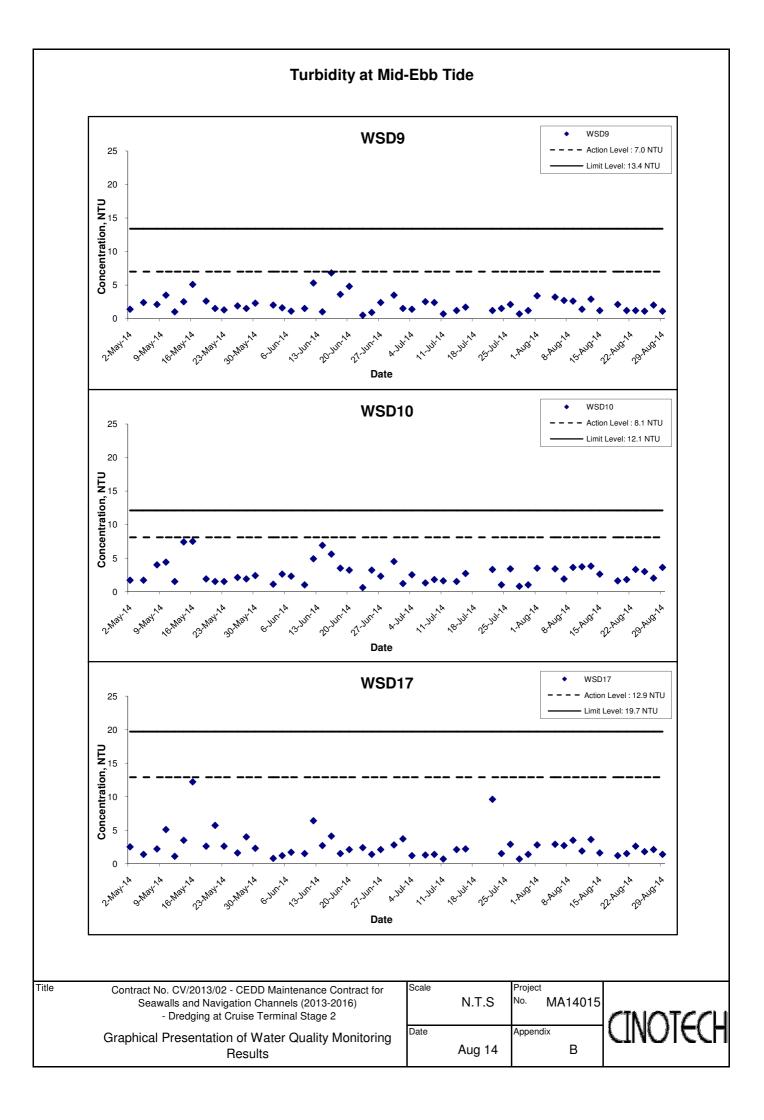


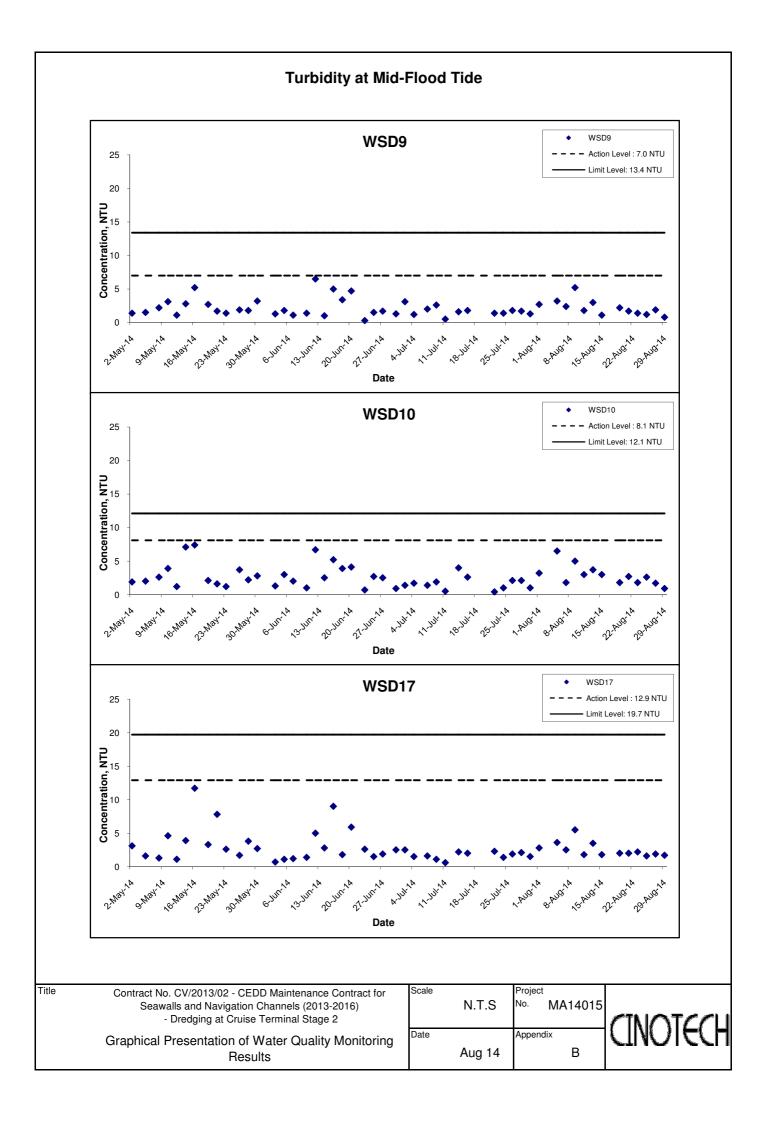
Suspended Solids at Mid-Flood Tide WSD9 WSD9 - Action Level: 12.8 mg/L 25 20 Concentration, mg/L Date WSD10 **WSD10** Action Level: 11.2 mg/L 25 Limit Level: 13.2 mg/L 20 Concentration, mg/ 0 Date WSD17 **WSD17** Action Level: 14.7 mg/L 25 Limit Level : 17.0 mg/L 20 **J**/**gu**₁₅ Concentration, of the state of 0 Date Remark: Water quality monitoring on 18 July 2014 was cancelled due to adverse weather (Typhoon Signal No. 3) Title Project Contract No. CV/2013/02 - CEDD Maintenance Contract for Scale No. N.T.S MA14015 Seawalls and Navigation Channels (2013-2016) - Dredging at Cruise Terminal Stage 2 Appendix Date Graphical Presentation of Water Quality Monitoring

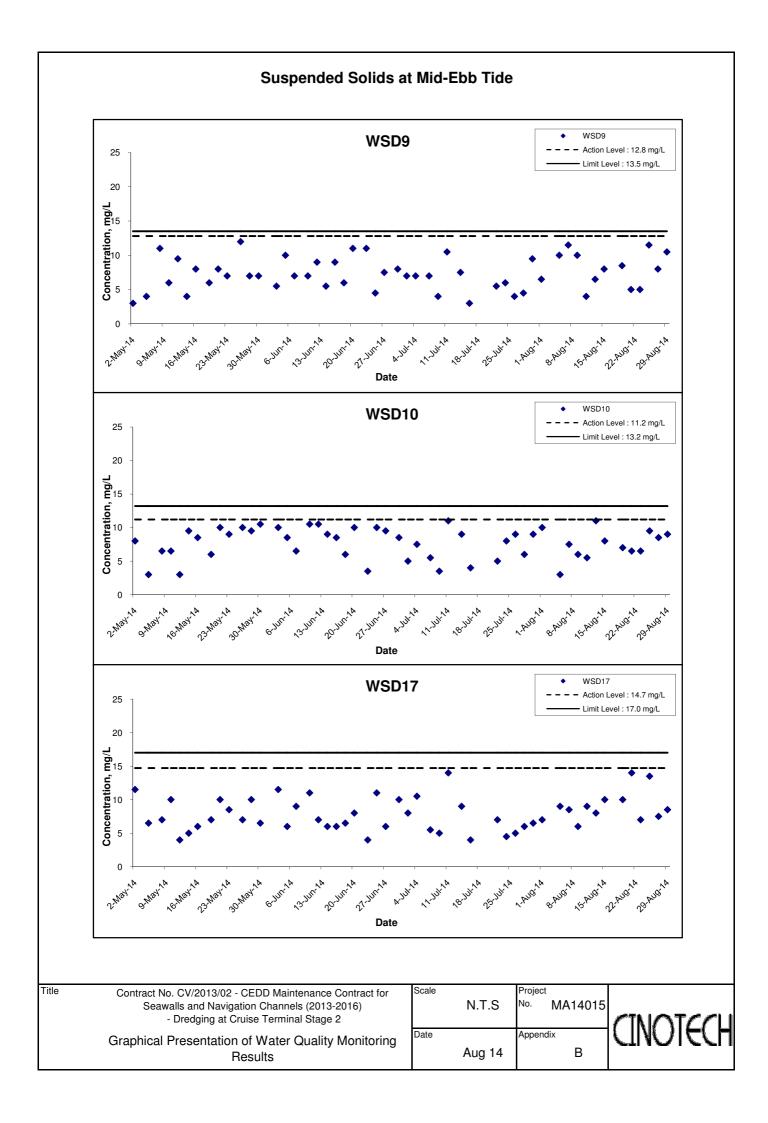
Jul 14

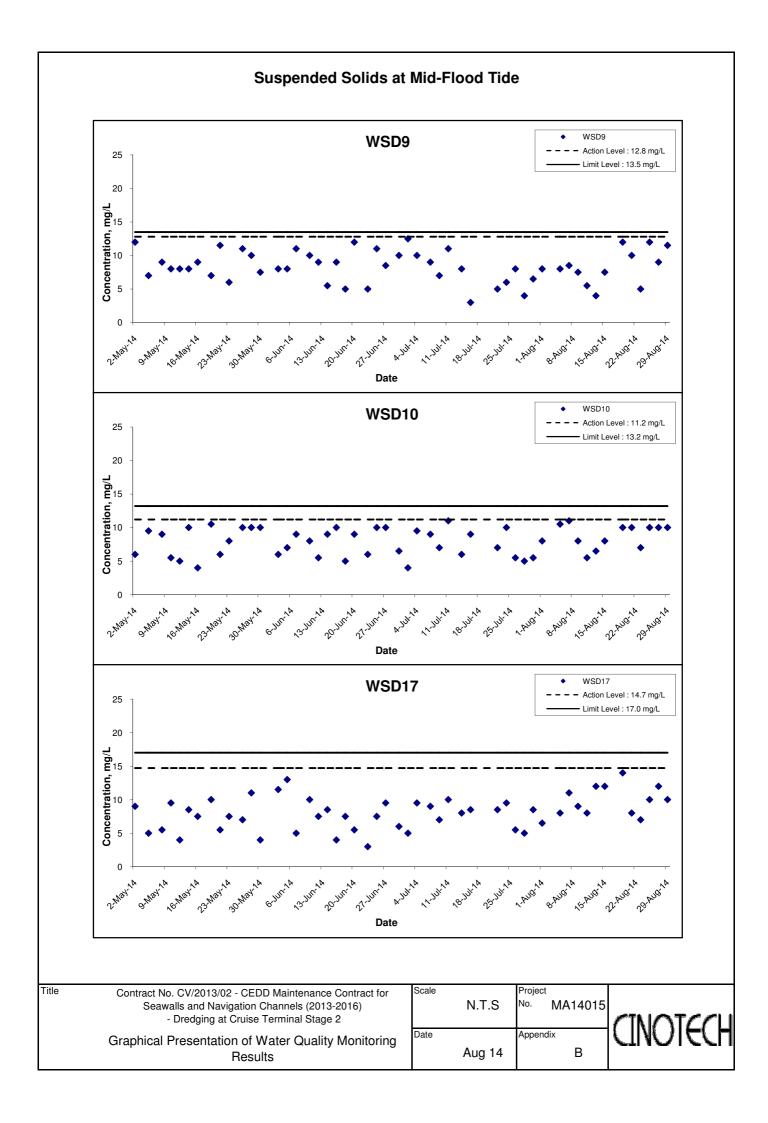
Results

В









APPENDIX C EVENT ACTION PLANS

| Event | ET | IEC | ER | Contractor |
|--|--|---|--|--|
| Action level being exceeded by one sampling day | Repeat <i>in situ</i> measurement to confirm findings; Identify source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods. Discuss mitigation measures with IEC and Contractor; (The above actions should be taken within 1 working day after the exceedance is identified) Repeat measurement on next day of exceedance. | Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified) | Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented. (The above actions should be taken within 1 working day after the exceedance is identified) | Inform ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; 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; Discuss with ET and IEC and proposed mitigation measures to IEC and ER; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified) |
| Action level being exceeded by more than one | Identify source(s) of impact; Inform IEC and Contractor; | Discuss with ET and Contractor on the mitigation measures; | Discuss with IEC on the proposed mitigation measures; | Inform ER and confirm notification of the non-compliance in writing; |

| Event | | ET | | IEC | | ER | | Contractor |
|--|---|--|------------------------|--|------------------------------------|---|---|--|
| consecutive sampling days | 3.4.5.6.7.8. | Check monitoring data, all plant, equipment and Contractor's working methods. Discuss mitigation measures with IEC and Contractor; Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; (The above actions should be taken within 1 working day after the exceedance is identified) Repeat measurement on next day of exceedance. | 3. | Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified) | 3. 4. | Make agreement on the mitigation measures to be implemented. Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified) | 2. 3. 4. 5. 6. 7. | Rectify unacceptable practice; Check all plant and equipment; 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; Discuss with ET and IEC and proposed mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified) |
| Limit level being exceeded by one sampling day | 1. 2. 3. | Repeat <i>in situ</i> measurement to confirm findings; Identify source(s) of impact; Inform IEC, Contractor and EPD; Check monitoring data, all plant, | 2. | Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and | 1. 2. | Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the | 2. 3. | Inform ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; |

| 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 | Identify source(s) of impact; Inform IEC, Contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods. Discuss mitigation measures with IEC, ER and Contractor; | Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of | Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be | Inform ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Review the working methods and consider additional measures such as use of |

| 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 D UPDATED ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

| EIA Ref. | Recommended Mitigation Measures | Implementation Agent | Location/ Timing of the measures | Implementation Stage | Implementation |
|----------|--|----------------------------|------------------------------------|---------------------------|----------------|
| | | | | | Status |
| Air Qual | ity | | | | |
| S3.6 | Requirements of the Air Pollution Control (Construction Dust) Regulation | Contractor for capital | Work site/ during dredging in the | Construction stage | ٨ |
| | shall be adhered to during the construction period. | dredging | construction stage and maintenance | | |
| | | | dredging during operation stage | | |
| S3.6 | In order to minimize the potential odour emissions, if any, the dredged | Contractor for capital and | Work site/ during dredging in the | Construction stage and | |
| | sediment placed on barge should be properly covered as far as | maintenance dredging | construction stage and maintenance | Operation stage | ٨ |
| | practicable to minimize the exposed area and hence the potential odour | | dredging during operation stage | | |
| | emissions during the transportation of the dredged sediment. | | | | |
| Construc | ction Noise (Air borne) | | | | |
| S4.8 | Good Site Practices: | Contractor for capital and | Work site/ during dredging in the | Construction stage and | |
| | Only well-maintained plant should be operated on-site and plant | maintenance dredging | construction stage and maintenance | Operation stage | ٨ |
| | should be serviced regularly during the construction program. | | dredging during operation stage | | |
| | Mobile plant, if any, should be sited as far away from NSRs as | | | | ٨ |
| | possible. | | | | |
| | Machines and plant (such as trucks) that may be in intermittent | | | | |
| | use should be shut down between works periods or should be | | | | ٨ |
| | throttled down to a minimum. | | | | |
| | Plant known to emit noise strongly in one direction should, | | | | ٨ |
| | wherever possible, be orientated so that the noise is directed away | | | | |
| | from the nearby NSRs. | | | | ٨ |
| | Material stockpiles and other structures should effectively utilized, | | | | |
| | wherever practicable, in screening noise from on-site construction | | | | ۸ |
| | activities. | | | | |
| S4.9 | If there is any planned NSRs within 300 m from the work area occupied | Developer of cruise | Representative NSRs at the former | Construction | N/A |
| | during the dredging period, an EM&A programme is recommended to be | terminal | Kai Tak Airport runway/ Prior and | Stage and Operation stage | |

| 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 | | during the capital and maintenance | | |
| | the recommended mitigation measures for daytime normal working | | dredging | | |
| | activities should be incorporated into the EM&A programme for | | | | |
| | implementation during dredging. | | | | |
| Water Qu | ıality | | | | |
| S5.9 | Dredging will be carried out by closed grab dredger to minimize | Contractor for capital and | Work site/ during dredging in the | Construction | * |
| | release of sediment and other contaminants during both capital | maintenance dredging | construction stage and maintenance | Stage and Operation stage | |
| | and maintenance dredging. | | dredging during operation stage | | |
| | The maximum production rate for dredging from the seabed to | | | | ٨ |
| | 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 | | | | ٨ |
| | area would no t be more than 4,000m3 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. | | | | |
| S5.9 | Silt curtains should be deployed around the closed grab dredgers used | Contractor for capital | Work site/ during dredging in the | Construction | * |
| | for dredging at and near the existing seawall of the former Kai Tak runway | dredging | construction stage | stage | |
| | for construction of the cruise berth structures. | | | | |
| S5.9 | Silt screens should be installed at the WSD flushing water intakes at Cha | Contractor for capital | Seawater intakes in Victoria | Construction | ٨ |
| | Kwo Ling, Sai Wan Ho, Quarry Bay, Sheung Wan, Wan Chai and Tai Wan | dredging | Harbour/ During the construction of | stage | |
| | for dredging in the manoeuvring basin of the first berth during the capital | | cruise terminal | | |
| | dredging | | | | |

| 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 | Contractor for capital | Seawater intakes in Victoria | Construction stage | ۸ |
| | Kwo Ling, Quarry Bay, and Tai Wan for dredging in the manoeuvring | dredging | Harbour/ During the construction of | | |
| | basin of the second berth during the capital dredging. | | cruise terminal | | |
| S5.9 | If the opening has been introduced at the northern runway, silt screen | CEDD | Seawater intake at Sai Wan Ho, | Construction stage | ۸ |
| | should also be installed a the WSD flushing water intake at Sai Wan Ho, | | Sheung Wan and Wan Chai/ During | | |
| | Sheung Wan and Wan Chai for dredging in the manoeuvring basin of the | | the construction of cruise terminal | | |
| | second berth during the capital dredging. | | | | |
| S5.9 | Other good site practices that should undertaken during dredging include: | Contractor for capital and | Work site and adjacent waters/ | Construction stage and | |
| | All vessels should be sized so that adequate clearance is | maintenance dredging | during dredging in the construction | Operation stage | ۸ |
| | maintained between vessels and the seabed in all tide conditions, | | stage and maintenance dredging | | |
| | to ensure that undue turbidity is not generated by turbulence from | | during operation stage | | |
| | vessel movement or propeller wash; | | | | |
| | All barges / dredgers should be fitted with tight fitting seals to their | | | | ۸ |
| | bottom openings to prevent leakage of material; | | | | |
| | Construction activities should not cause foam, oil, grease, scum, | | | | ۸ |
| | 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 | | | | ۸ |
| | overflow of materials or polluted water during loading or | | | | |
| | transportation. | | | | |
| S5.9 | Appropriate numbers or portable chemical toilets shall be provided by a | Contractor for capital and | Work site and adjacent waters/ | Construction stage and | ۸ |
| | licensed contractor to serve the construction workers over the | maintenance dredging | during dredging in the construction | Operation stage | |
| | construction site. The Contractor shall also be responsible for waste | | stage and maintenance dredging | | |
| | disposal and maintenance practices | | during operation stage | | |
| S5.9 | Collection and removal of floating refuse should be performed at regular | Contractor for capital and | Work site and adjacent waters/ | Construction stage and | * |

| 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 | maintenance dredging | during dredging in the construction | Operation stage | |
| | keeping the water within the site boundary and the neighbouring water | | stage and maintenance dredging | | |
| | free from rubbish during the dredging works. | | during operation stage | | |
| S5.9 | An environmental monitoring and audit programme should be | Developer of cruise | Selected water receiver points in | Construction stage and | ۸ |
| | implemented to verify whether or not impact predictions are | terminal | Victoria Harbour/ Prior and during | Operation stage | |
| | representative, and to ensure that all the recommended mitigation | | the construction of cruise terminal | | |
| | measures are implemented properly. If the water quality monitoring data | | and maintenance dredging | | |
| | 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. | | | | |
| S5.9 | Silt screens are recommended to be deployed at six selected WSD | Contractor for capital | Selected water receiver points in | Construction stage | * |
| | flushing water intakes during the capital dredging. The Contractor for | dredging | Victoria Habour/ during dredging in | | |
| | capital dredging shall demonstrate and ensure that the design of the silt | | the constriction stage | | |
| | 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 | | | | |
| | intervals on a daily basis. The Contractor should be responsible for | | | | |

| EIA Ref. | Recommended Mitigation Measures | Implementation Agent | Location/ Timing of the measures | Implementation Stage | Implementation |
|----------|---|----------------------------|------------------------------------|---------------------------|----------------|
| | | | | | Status |
| | keeping the water behind the silt screen free from floating rubbish and | | | | |
| | debris during the impact monitoring period. | | | | |
| Waste M | lanagement | | | | |
| S6.7 | Good Site Practices It is not anticipated that adverse waste management | Contractor for capital and | Work site/ during dredging in the | Construction | |
| | related impacts would arise, provided that good site practices are | maintenance dredging | construction stage and maintenance | stage and Operation stage | |
| | adhered to. Recommendations for good site practices during the | | dredging during operation stage | | |
| | dredging activities include: | | | | |
| | Nomination of an approved person, such as a site manager, o be | | | | ٨ |
| | 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 | | | | ۸ |
| | chemical waste handling procedures. | | | | |
| | Provision of sufficient waste disposal points and regular collection | | | | ۸ |
| | for disposal. | | | | |
| | Appropriate measure to minimize windblown litter and dust during | | | | N/A |
| | 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). | | | | ۸ |
| | Segregation and storage of different types of waste in different | | | | |
| | containers, skips or stockpiles to enhance reuse or recycling of | | | | ۸ |
| | materials and their proper disposal. | | | | |
| | Encourage collection of aluminium cans, PET bottles and paper by | | | | ۸ |
| | providing separate labeled bins to enable these wastes to be | | | | |

| EIA Ref. | Recommended Mitigation Measures | Implementation Agent | Location/ Timing of the measures | Implementation Stage | Implementation |
|----------|--|----------------------------|------------------------------------|------------------------|----------------|
| | | | | | Status |
| | segregated from other general refuse generated by the work force. | | | | |
| | Any unused chemicals or those with remaining functional capacity | | | | ۸ |
| | shall be recycled. | | | | |
| S6.7 | Marine Sediments The dredged marine sediments would be loaded onto | Contractor for capital and | Work site/ during dredging in | Construction stage and | ۸ |
| | barges and transported to the designated disposal sites allocated by the | maintenance dredging | construction stage and maintenance | Operation stage | |
| | MFC depending on their level of contamination. Sediment classified as | | dredging during operation stage | | |
| | 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. | | | | |
| S6.7 | It will be the responsibility of the Contractor to satisfy the appropriate | Contractor for capital and | Work site/ during dredging in the | Construction stage and | ۸ |
| | authorities that the contamination levels of the marine sediment to be | maintenance dredging | construction stage and maintenance | Operation stage | |
| | dredged have been analysed and recorded. According to the ETWB TCW | | dredging during operation stage | | |
| | 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. | | | | |
| S6.7 | During transportation and disposal of the dredged marine sediments | Contractor for capital and | Work site/ during dredging in the | Construction stage and | |
| | requiring Type 1 and Type 2 disposal, the following measures shall be | maintenance dredging | construction stage and maintenance | Operation stage | |
| | taken to minimize potential impacts on water quality: | | dredging during operation stage | | |
| | Bottom opening of barges shall be fitted with tight fitting seals to | | | | |

| EIA Ref. | Recommended Mitigation Measures | Implementation Agent | Location/ Timing of the measures | Implementation Stage | Implementation |
|----------|---|----------------------------|------------------------------------|------------------------|----------------|
| | | | | | Status |
| | 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 | | | | ۸ |
| | 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 | | | | ۸ |
| | cause the overflow of materials or sediment laden water during | | | | |
| | loading or transportation. | | | | |
| S6.7 | Chemical wastes After use, chemical wastes (for example, cleaning | Contractor for capital and | Work site/ during dredging in the | Construction stage and | ٨ |
| | fluids, solvents, lubrication oil and fuel) should be handles according to | maintenance dredging | construction stage and maintenance | Operation stage | |
| | the Code of Practice on the Packaging, Labelling and Storage of | | dredging during operation stage | | |
| | 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. | | | | |
| S6.7 | General Refuse General refuse should be stored in enclosed bins or | Contractor for capital and | Work site/ during dredging in the | Construction stage and | ٨ |
| | compaction units separate from C&D material. A reputable waste | maintenance dredging | construction stage and maintenance | Operation stage | |
| | collector should be employed by the Contractor to remove general refuse | | dredging during operation stage | | |
| | from the site, separately from C&D material. An enclosed and covered | | | | |
| | area is preferred to reduce the occurrence of 'wind blown' light material. | | | | |
| S6.7 | Construction and Demolition Material It is recommended that the extend | Contractor for capital | Work site/ during the construction | Construction stage | |
| | of dredging of the existing seawall should be kept to a minimum in the | dredging | period | | |
| | detailed design of the new cruise terminal to minimize generation of C&D | | | | |
| | material. Mitigation measures and good site practices should be | | | | |

| EIA Ref. | Recommended Mitigation Measures | Implementation Agent | Location/ Timing of the measures | Implementation Stage | Implementation |
|----------|--|----------------------|----------------------------------|----------------------|----------------|
| | | | | | Status |
| | incorporated in the contract document to control potential environmental | | | | |
| | impact from handling and transportation of C&D material. The mitigation | | | | |
| | measures include: | | | | N/A |
| | 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 | | | | N/A |
| | on-site should be covered with tarpaulin or similar fabric. | | | | |
| | Skip hoist for material transport should be totally enclosed by | | | | N/A |
| | impervious sheeting. | | | | |
| | Every vehicle should be washed to remove any dusty materials | | | | N/A |
| | from its body and wheels before leaving a construction site. | | | | |
| | The area where vehicle washing takes place and the section of the | | | | N/A |
| | 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 | | | | N/A |
| | 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 | | | | N/A |
| | dusty materials wet. | | | | |
| | The height from which excavated materials are dropped should be | | | | N/A |
| | controlled to a minimum practical height to limit fugitive dust | | | | |
| | generation from unloading. | | | | |

| EIA Ref. | Recommended Mitigation Measures | Implementation Agent | Location/ Timing of the measures | Implementation Stage | Implementation |
|----------|--|--------------------------|------------------------------------|----------------------|----------------|
| | | | | | Status |
| S6.7 | When delivering inert C&D material to public fill reception facilities, the | Contractor and | Work site/ During the construction | Construction stage | N/A |
| | material shall consist entirely of inert construction waste and of size less | Independent | period | | |
| | than 250mm or other sizes as agreed with the Secretary of the Public Fill | Environmental Checker | | | |
| | 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. | | | | |
| Cultural | Heritage | | | | |
| S7.8 | The dredging activities of the proposed cruise terminal should ensure that | Developer of cruise | Work site/ During the design and | Design stage and | ۸ |
| | disturbance to the existing seawall masonry outside the Project boundary | terminal | construction of cruise terminal | Construction stage | |
| | should be avoided as far as practicable. | | | | |
| 7.10, | It is recommended that the dredged spoil should be monitored for the | Developer of cruise | Work site/ during dredging in the | During construction | ۸ |
| Appendix | presence of archaeological material. Guidelines for the monitoring brief | terminal/ Contractor for | construction stage | | |
| 7.1 | have been prepared in consultation with the AMO. A qualified marine | capital dredging | | | |
| | 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. | | | | |

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 E SITE AUDIT SUMMARY

CEDD Maintenance Contract for Seawalls and Navigation Channels (2013-2016)

Dredging at Cruise Terminal Stage 2

Weekly Site Inspection Record Summary Inspection Information

| Checklist Reference Number | 140605 |
|----------------------------|------------------------|
| Date | 5 June 2014 (Thursday) |
| Time | 13:45-15:15 |

| | | Related |
|------------|---|----------|
| Ref. No. | Non-Compliance | Item No. |
| | None identified | |
| | | Related |
| Ref. No. | Remarks/Observations | Item No. |
| | A. Water Quality | |
| 140605-R01 | Properly deploy the silt curtain at grab and the gap at the silt curtain should be avoided. | B13 |
| 140605-R02 | A closed grab which has been agreed by relevant parties should be used for dredging. | B1 |
| | | |
| | B. Air Quality | |
| | No environmental deficiency was identified during site inspection. | |
| | C. Noise | |
| | No environmental deficiency was identified during site inspection. | |
| | D. Waste/Chemical Management | |
| | No environmental deficiency was identified during site inspection. | |
| | No environmental deficiency was identified during site inspection. | |
| | E. Cultural Heritage Measures | |
| | No environmental deficiency was identified during site inspection. | |
| | F. Permits/Licences | |
| | No environmental deficiency was identified during site inspection. | |
| | G. Others | |
| | • Follow-up on previous site audit session (Ref. No. 140528), follow-up action is required for the item 140528-R01. | |

| | Name | Signature | Date |
|-------------|--------------------|-----------|-------------|
| Recorded by | Ivy Tam | Tuf | 5 June 2014 |
| Checked by | Dr. Priscilla Choy | WF | 5 June 2014 |

CEDD Maintenance Contract for Seawalls and Navigation Channels (2013-2016)

Dredging at Cruise Terminal Stage 2

Weekly Site Inspection Record Summary

| Checklist Reference Number | 140612 |
|----------------------------|-------------------------|
| Date | 12 June 2014 (Thursday) |
| Time | 14:20-15:30 |

| | | Related |
|------------|--|----------|
| Ref. No. | Non-Compliance | Item No. |
| | None identified | - |
| | | Related |
| Ref. No. | Remarks/Observations | Item No. |
| | A. Water Quality | |
| 140612-R01 | • To repair the damage part of silt curtain surrounding the grab of 永合利 23 as soon as possible. | B13 |
| | B. Air Quality | |
| | No environmental deficiency was identified during site inspection. | |
| | C. Noise | |
| | No environmental deficiency was identified during site inspection. | |
| | D. Waste/Chemical Management | |
| | No environmental deficiency was identified during site inspection. | |
| | E. Cultural Heritage Measures | |
| | No environmental deficiency was identified during site inspection. | |
| | F. Permits/Licences | |
| | No environmental deficiency was identified during site inspection. | |
| | G. Others | |
| | • Follow-up on previous site audit session (Ref. No. 140605), all environmental deficiencies were improved/rectified by Contractor during the site inspection. | |

| | Name | Signature | Date |
|-------------|--------------------|-----------|--------------|
| Recorded by | Ivy Tam | Tun | 12 June 2014 |
| Checked by | Dr. Priscilla Choy | NA | 12 June 2014 |

CEDD Maintenance Contract for Seawalls and Navigation Channels (2013-2016)

Dredging at Cruise Terminal Stage 2

Weekly Site Inspection Record Summary Inspection Information

| Checklist Reference Number | 140619 |
|----------------------------|-------------------------|
| | 19 June 2014 (Thursday) |
| Time | 14:00-15:30 |

| Ref. No. | Non-Compliance | Related Item No. |
|------------|---|---------------------|
| Kel. Ivo. | None identified | - |
| Ref. No. | Remarks/Observations | Related Item No. |
| | A. Water Quality | |
| 140619-R01 | Floating refuse was observed at the silt screens at WSD flushing water intake at Cha Kwo Ling and Tai Wan. The Contractor was reminded to clear the refuse regularly. | В9 |
| | B. Air Quality | |
| | No environmental deficiency was identified during site inspection. | |
| | C. Noise | |
| | No environmental deficiency was identified during site inspection. | |
| | D. Waste/Chemical Management | |
| | No environmental deficiency was identified during site inspection. | |
| | E. Cultural Heritage Measures | |
| | No environmental deficiency was identified during site inspection. | |
| | F. Permits/Licences | |
| | No environmental deficiency was identified during site inspection. | |
| | G. Others | |
| | • Follow-up on previous site audit session (Ref. No. 140612), all environmental deficiencies were improved/rectified by Contractor during the site inspection. | |

| | Name | Signature | Date |
|-------------|--------------------|-----------|--------------|
| Recorded by | Harris Wong | (A) | 19 June 2014 |
| Checked by | Dr. Priscilla Choy | V.L | 19 June 2014 |

CEDD Maintenance Contract for Seawalls and Navigation Channels (2013-2016)

Dredging at Cruise Terminal Stage 2

Weekly Site Inspection Record Summary

| Checklist Reference Number | 140627 | |
|----------------------------|-----------------------|--|
| Date | 27 June 2014 (Friday) | |
| Time | 14:00-15:00 | |

| | | Related |
|----------|--|----------|
| Ref. No. | Non-Compliance | Item No. |
| | None identified | |
| | | Related |
| Ref. No. | Remarks/Observations | Item No. |
| | A. Water Quality | |
| | No environmental deficiency was identified during site inspection. | |
| | B. Air Quality | |
| | No environmental deficiency was identified during site inspection. | |
| | C. Noise | |
| | No environmental deficiency was identified during site inspection. | |
| | D. Waste/Chemical Management | |
| | No environmental deficiency was identified during site inspection. | |
| | E. Cultural Heritage Measures | |
| | No environmental deficiency was identified during site inspection. | |
| | F. Permits/Licences | |
| | No environmental deficiency was identified during site inspection. | |
| | G. Others | |
| | • Follow-up on previous site audit session (Ref. No. 140619), all environmental deficiencies were improved/rectified by Contractor during the site inspection. | |

| | Name | Signature | Date |
|-------------|--------------------|-----------|--------------|
| Recorded by | Harris Wong | A | 27 June 2014 |
| Checked by | Dr. Priscilla Choy | WI | 27 June 2014 |

CEDD Maintenance Contract for Seawalls and Navigation Channels (2013-2016)

Dredging at Cruise Terminal Stage 2

Weekly Site Inspection Record Summary Inspection Information

| Checklist Reference Number | 140703 | |
|----------------------------|------------------------|--|
| Date | 3 July 2014 (Thursday) | |
| Time | 14:00-15:30 | |

| D.C.NI. | New Complete | Related Item No. |
|------------|---|---------------------|
| Ref. No. | Non-Compliance | Hem No. |
| | None identified | - |
| | | Related |
| Ref. No. | Remarks/Observations | Item No. |
| | A. Water Quality | |
| 140703-R01 | To check and re-deploy the perimeter silt curtain to avoid the gap. | B13 |
| | B. Air Quality | |
| | No environmental deficiency was identified during site inspection. | |
| | C. Noise | |
| | No environmental deficiency was identified during site inspection. | |
| | D. Waste/Chemical Management | |
| | No environmental deficiency was identified during site inspection. | |
| | E. Cultural Heritage Measures | |
| | No environmental deficiency was identified during site inspection. | |
| | F. Permits/Licences | |
| | No environmental deficiency was identified during site inspection. | |
| | G. Others | |
| | • Follow-up on previous site audit session (Ref. No. 140627), no major environmental deficiency was identified. | |

| | Name | Signature | Date |
|-------------|--------------------|-----------|-------------|
| Recorded by | Ivy Tam | Turk | 3 July 2014 |
| Checked by | Dr. Priscilla Choy | NI. | 3 July 2014 |

CEDD Maintenance Contract for Seawalls and Navigation Channels (2013-2016)

Dredging at Cruise Terminal Stage 2

Weekly Site Inspection Record Summary

| Inspection Information | |
|----------------------------|-------------------------|
| Checklist Reference Number | 140709 |
| Date | 9 July 2014 (Wednesday) |
| Time | 14:30-15:45 |
| Time | |

| | | Related |
|-----------|--|----------|
| Ref. No. | Non-Compliance | Item No. |
| Kei. 140. | None identified | |
| | TOTAL AUGUST AND AUGUST AND AUGUST AND AUGUST AUGUS | Related |
| Ref. No. | Remarks/Observations | Item No. |
| 2.2 | A. Water Quality | |
| | No environmental deficiency was identified during site inspection. | |
| | | |
| | B. Air Quality No environmental deficiency was identified during site inspection. | |
| | No environmental deficiency was recommed and g | |
| | C. Noise | |
| | No environmental deficiency was identified during site inspection. | |
| | D. Waste/Chemical Management | |
| | No environmental deficiency was identified during site inspection. | |
| | E. Cultural Heritage Measures | |
| | No environmental deficiency was identified during site inspection. | |
| | F. Permits/Licences | |
| | No environmental deficiency was identified during site inspection. | |
| | G Others | |
| | Follow-up on previous site audit session (Ref. No. 140703), all environmental deficiencies were improved/rectified by Contractor during the site inspection. | |

| | Name | Signature | Date |
|-------------|--------------------|--|-------------|
| Recorded by | Harris Wong | Ass | 9 July 2014 |
| Checked by | Dr. Priscilla Choy | WI | 9 July 2014 |
| | | —————————————————————————————————————— | |

CEDD Maintenance Contract for Seawalls and Navigation Channels (2013-2016)

Dredging at Cruise Terminal Stage 2

Weekly Site Inspection Record Summary

| Checklist Reference Number | 140717 | |
|----------------------------|-------------------------|--|
| Date | 17 July 2014 (Thursday) | |
| Time | 14:30-15:00 | |

| | | Related Item No. |
|----------|---|---------------------|
| Ref. No. | Non-Compliance | Hem Ivo. |
| | None identified | |
| | | Related |
| Ref. No. | Remarks/Observations | Item No. |
| | A. Water Quality | |
| | No environmental deficiency was identified during site inspection. | |
| | B. Air Quality | |
| | No environmental deficiency was identified during site inspection. | |
| | C. Noise | |
| | No environmental deficiency was identified during site inspection. | |
| | D. Waste/Chemical Management | |
| | No environmental deficiency was identified during site inspection. | |
| | E. Cultural Heritage Measures | |
| | No environmental deficiency was identified during site inspection. | |
| | F. Permits/Licences | |
| | No environmental deficiency was identified during site inspection. | |
| | G. Others | |
| | • Follow-up on previous site audit session (Ref. No. 140709), no environmental deficiencies were identified during the site inspection. | |

| | Name | Signature | Date |
|-------------|--------------------|-----------|--------------|
| Recorded by | Ivy Tam | Tw | 17 July 2014 |
| Checked by | Dr. Priscilla Choy | NI | 17 July 2014 |

CEDD Maintenance Contract for Seawalls and Navigation Channels (2013-2016)

Dredging at Cruise Terminal Stage 2

Weekly Site Inspection Record Summary

| Checklist Reference Number | 140723 |
|----------------------------|--------------------------|
| Date | 23 July 2014 (Wednesday) |
| Time | 10:30-11:30 |

| Ref. No. | Non-Compliance | Related Item No. |
|------------|---|---------------------|
| | None identified | - |
| Ref. No. | Remarks/Observations | Related Item No. |
| | A. Water Quality | |
| 140723-R01 | The silt curtain at Tai Wan WSD water intake should be deployed properly to minimize the gaps. | B13 |
| | B. Air Quality | |
| | No environmental deficiency was identified during site inspection. | |
| | C. Noise | |
| | No environmental deficiency was identified during site inspection. | |
| | D. Waste/Chemical Management | |
| | No environmental deficiency was identified during site inspection. | |
| | E. Cultural Heritage Measures | |
| | No environmental deficiency was identified during site inspection. | |
| | F. Permits/Licences | |
| | No environmental deficiency was identified during site inspection. | |
| | G. Others | |
| | • Follow-up on previous site audit session (Ref. No. 140717), no environmental deficiencies were identified during the site inspection. | |

| | Name | Signature | Date |
|-------------|--------------------|-----------|--------------|
| Recorded by | Harris Wong | An | 23 July 2014 |
| Checked by | Dr. Priscilla Choy | hI | 23 July 2014 |

CEDD Maintenance Contract for Seawalls and Navigation Channels (2013-2016)

Dredging at Cruise Terminal Stage 2

Weekly Site Inspection Record Summary
Inspection Information

| Inspection Information | | |
|----------------------------|-------------------------|--|
| Checklist Reference Number | 140731 | |
| Date | 31 July 2014 (Thursday) | |
| Time | 14:30-15:30 | |

| | | Related |
|----------|--|----------|
| Ref. No. | Non-Compliance | Item No. |
| | None identified | |
| | | Related |
| Ref. No. | Remarks/Observations | Item No. |
| | A. Water Quality | |
| | No environmental deficiency was identified during site inspection. | |
| | B. Air Quality | |
| | No environmental deficiency was identified during site inspection. | |
| | C. Noise | |
| | No environmental deficiency was identified during site inspection. | |
| | D. Waste/Chemical Management | |
| | No environmental deficiency was identified during site inspection. | |
| | E. Cultural Heritage Measures | |
| | No environmental deficiency was identified during site inspection. | |
| | F. Permits/Licences | |
| | No environmental deficiency was identified during site inspection. | |
| | G. Others | |
| | Follow-up on previous site audit session (Ref. No. 140723), all environmental deficiencies were improved/rectified by Contractor during the site inspection. | |

| | Name | Signature | Date |
|-------------|--------------------|-----------|--------------|
| Recorded by | Ivy Tam | Ynd | 31 July 2014 |
| Checked by | Dr. Priscilla Choy | NA | 31 July 2014 |

CEDD Maintenance Contract for Seawalls and Navigation Channels (2013-2016)

Dredging at Cruise Terminal Stage 2

Weekly Site Inspection Record Summary

| Checklist Reference Number | 140807 | |
|----------------------------|--------------------------|--|
| Date | 7 August 2014 (Thursday) | |
| Time | 14:30-15:30 | |

| | | Related |
|----------|---|----------|
| Ref. No. | Non-Compliance | Item No. |
| | None identified | - |
| | | Related |
| Ref. No. | Remarks/Observations | Item No. |
| | A. Water Quality | |
| | No environmental deficiency was identified during site inspection. | |
| | B. Air Quality | |
| | No environmental deficiency was identified during site inspection. | |
| | C. Noise | |
| | No environmental deficiency was identified during site inspection. | |
| | D. Waste/Chemical Management | |
| | No environmental deficiency was identified during site inspection. | |
| | E. Cultural Heritage Measures | |
| | No environmental deficiency was identified during site inspection. | |
| | F. Permits/Licences | |
| | No environmental deficiency was identified during site inspection. | |
| | G. Others | |
| | • Follow-up on previous site audit session (Ref. No. 140731), no major environmental deficiency was identified. | |

| | Name | Signature | Date |
|-------------|--------------------|-----------|---------------|
| Recorded by | Ivy Tam | lud | 7 August 2014 |
| Checked by | Dr. Priscilla Choy | Wf | 7 August 2014 |

CEDD Maintenance Contract for Seawalls and Navigation Channels (2013-2016)

Dredging at Cruise Terminal Stage 2

Weekly Site Inspection Record Summary

| Checklist Reference Number | 140814 |
|----------------------------|---------------------------|
| Date | 14 August 2014 (Thursday) |
| Time | 15:30-16:00 |

| Ref. No. | Non-Compliance | Related Item No. |
|------------|---|---------------------|
| | None identified | - |
| Ref. No. | Remarks/Observations | Related Item No. |
| | A. Water Quality | |
| 140814-R01 | Clear the floating waste within the silt screen at WSD Intake Tai Wan. | В9 |
| 140814-R02 | • To re-deploy the silt screen at WSD intake Tai Wan so that to minimize the gap. | B 13 |
| | B. Air Quality | |
| | No environmental deficiency was identified during site inspection. | |
| | | |
| | C. Noise | |
| | No environmental deficiency was identified during site inspection. | |
| | D. Waste/Chemical Management | |
| | No environmental deficiency was identified during site inspection. | |
| | E. Cultural Heritage Measures | |
| | No environmental deficiency was identified during site inspection. | |
| | F. Permits/Licences | |
| | No environmental deficiency was identified during site inspection. | |
| | G. Others | |
| | • Follow-up on previous site audit session (Ref. No. 140807), no major environmental deficiency was identified. | |

| , | Name | Signature | Date |
|-------------|--------------------|-----------|----------------|
| Recorded by | Ivy Tam | Yuh | 14 August 2014 |
| Checked by | Dr. Priscilla Choy | N.L. | 14 August 2014 |

CEDD Maintenance Contract for Seawalls and Navigation Channels (2013-2016)

Dredging at Cruise Terminal Stage 2

Weekly Site Inspection Record Summary Inspection Information

| Checklist Reference Number | 140821 | |
|----------------------------|---------------------------|--|
| Date | 21 August 2014 (Thursday) | |
| Time | 14:30-15:00 | |

| Ref. No. | Non-Compliance | Related Item No. |
|------------|--|---------------------|
| | None identified | |
| Ref. No. | Remarks/Observations A. Water Quality | Related Item No. |
| 140821-R01 | Clear the floating waste within the silt screen at WSD Intake Tai Wan. | B 9 |
| 140821-R02 | To re-deploy the silt screen at WSD intake Tai Wan so that to minimize the gap. | B 13 |
| | B. Air Quality No environmental deficiency was identified during site inspection. | |
| | C. Noise No environmental deficiency was identified during site inspection. | |
| | D. Waste/Chemical Management No environmental deficiency was identified during site inspection. | |
| | E. Cultural Heritage Measures No environmental deficiency was identified during site inspection. | |
| | F. Permits/Licences No environmental deficiency was identified during site inspection. | |
| | G. Others Follow-up on previous audit sessions (ref: 140814): items of 140814-R01 and 140814-R02 will be followed up during the next site inspection as ref no. 140821-R01 and 140821-R02 | |

| | Name | Signature | Date |
|-------------|--------------------|-----------|----------------|
| Recorded by | KC Chung | Chunz | 21 August 2014 |
| Checked by | Dr. Priscilla Choy | 12 | 21 August 2014 |

CEDD Maintenance Contract for Seawalls and Navigation Channels (2013-2016)

Dredging at Cruise Terminal Stage 2

Weekly Site Inspection Record Summary

Inspection Information
Checklist Reference Number 140828

| Checklist Reference Number | 140828 |
|----------------------------|---------------------------|
| | 28 August 2014 (Thursday) |
| Time | 14:30-14:45 |

| 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 site inspection. | |
| | B. Air Quality | |
| | No environmental deficiency was identified during site inspection. | |
| | C. Noise | |
| | No environmental deficiency was identified during site inspection. | |
| | D. Waste/Chemical Management | |
| | No environmental deficiency was identified during site inspection. | |
| | E. Cultural Heritage Measures | |
| | No environmental deficiency was identified during site inspection. | |
| | F. Permits/Licences | |
| | No environmental deficiency was identified during site inspection. | |
| | G. Others | |
| | • Follow-up on the previous audit session (Ref. No. 140821), all environmental deficiencies were improved/ rectified by the Contractor. | |

| | Name | Signature | Date |
|-------------|--------------------|-----------|----------------|
| Recorded by | KC Chung | Chry | 28 August 2014 |
| Checked by | Dr. Priscilla Choy | WL | 28 August 2014 |
| | | | |

APPENDIX F SUMMARY OF EXCEEDANCE

Appendix F - 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 |
| Water Quality | Suspended Solids (SS) | 0 | 0 | 0 | 0 |

APPENDIX G COMPLAINT LOG

Contract No. CV/2013/02 CEDD Maintenance Contract for Seawalls and Navigation Channels (2013-2016) Dredging at Cruise Terminal Stage 2 Quarterly EM&A Report – June to August 2014

Appendix G - Complaint Log

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