# **China Harbour Engineering Company Limited**

# Contract No. DC/2007/20

# Harbour Area Treatment Scheme Stage 2A – Construction of Advance Disinfection Facilities at Stonecutters Island Sewage Treatment Works

Environmental Monitoring and Audit Quarterly Report (Version 1.0) for

October to December 2008

Approved By

Dr. Priscilla Choy

(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 2<sup>nd</sup> Quarterly Environmental Monitoring and Audit (EM&A) Summary Report prepared by Cinotech Consultants Limited (the Environmental Team, ET) for Contract No. DC/2007/20 "Harbour Area Treatment Scheme Stage 2A Construction of Advance Disinfection Facilities at Stonecutters Island Sewage Treatment Works" (the Project). This report documents the findings of EM&A Works conducted in the period between October and December 2008.
- 2. The construction works for Portions 1 & 2 and Portions 3 & 4 of the Project were commenced on 18<sup>th</sup> July 2008 and 18<sup>th</sup> September 2008 respectively.
- 3. The major site activities undertaken in the reporting quarter included:
  - Diversion of DN250 Watermain at Day Tank Storage Area;
  - Static load test for mini-piles at Day Tank Storage Area;
  - Construction of Barge Unloading Area;
  - Construction of Switch Room No. 1, Wash-out Chamber No .2 & sample store room;
  - Excavation & Extension of existing PPC piles for Chlorination Compound;
  - Excavation for Dechlorination Plant in Portion 4;
  - Plate loading test for Dechlorination Plant;
  - Excavation & Construction of Switch Room no. 2 & Day Tank Storage Area;
  - Construction of Washout Chamber no. 1;
  - Construction of Dechlorination Plant;
  - Construction of Sodium Hypochlorite Storage Compound;
  - Construction of pipe trench; and
  - Construction of drainage works.

# **Environmental Monitoring and Audit Works**

- 4. Environmental monitoring and audit works for the Project was performed regularly in accordance with the Final EM&A Manual and the results were checked and reviewed. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.
- 5. Summary of the events and action taken in the reporting quarter is tabulated in Table I.

 Table I
 Summary Table for Event Recorded in the Reporting Quarter

Parameter	No. of Ex	ceedance	No. of Event	Action Taken
Farameter	<b>Action Level</b>	Limit Level	Due to this Project	Action Taken
1-hr TSP	0	0	0	N/A
24-hr TSP	0	0	0	N/A

1

# 1-hr TSP Monitoring

6. All 1-hour TSP monitoring was conducted at AM1 as scheduled in the reporting quarter. No Action / Limit Level exceedance was recorded.

24-hr TSP Monitoring

7. All 24-hour TSP monitoring was conducted at AM1 as scheduled in the reporting quarter. No Action / Limit Level exceedance was recorded.

# **Environmental Complaint and Prosecution**

8. No environmental complaint, prosecution or notification of summons was received in this reporting quarter.

# **Environmental Licensing and Permitting**

9. Environmental related licenses/permits granted to the Project include the Environmental Permit (EP), Chemical Waste Producer License, a billing account for Disposal of construction waste, Waste Water Discharge License and Construction Noise Permit (CNP).

# **Key Information in the Reporting Quarter**

10. Summary of key information in this reporting quarter is tabulated in Table II.

Table II Summary Table for Key Information in the Reporting Quarter

Event	E	Event Details	Action Taken	Status	Remark
Event	Number	Nature	Action Taken	Status	кетагк
Complaint received	0		N/A	N/A	
Changes to the assumptions and key construction / operation activities recorded	0		N/A	N/A	
	4	Monthly EM&A Report for Sep 08 (Version 1.0)	Submitted to EPD on 10 Oct 08 (EP condition 4.4).	No comment	
Status of submissions under EP		Quarterly EM&A Report for Jul to Sep 08 (Version 1.0)	Submitted to EPD on 21 Oct 08 (Final EM&A Manual Section 10.2 & 10.10).	No comment	
GARGE EX		Monthly EM&A Report for Oct 08 (Version 1.0)	Submitted to EPD on 10 Nov 08 (EP condition 4.4).	No comment	
		Monthly EM&A Report for Nov 08 (Version 1.0)	Submitted to EPD on 8 Dec 08 (EP condition 4.4).	No comment	
Notifications of any summons & prosecutions	0		N/A	N/A	

# **Future Key Issues**

- 11. Major site activities for the coming quarter include:
  - Construction of Switch Room no. 2 & Day Tank Storage Area;
  - Construction of Barge Unloading Area;
  - Construction of Washout Chamber no. 1;
  - Construction of Dechlorination Plant;
  - Construction of Sodium Hypochlorite Storage Compound;
  - Construction of pipe trench;
  - · Construction of drainage works; and
  - Modification of L.V. Switchboards.
- 12. The future environmental concerns will be mainly on dust emission from concrete breaking, excavation works and wind erosion due to dry and windy weather; ponding water and surface runoff due to rain; and management on waste generated from the works above.

### 1 INTRODUCTION

# **Background**

- "Harbour Area Treatment Scheme Stage 2A Construction of Advance Disinfection 1.1 Facilities at Stonecutters Island Sewage Treatment Works" (hereinafter called the "the Project") under Contract No. DC/2007/20 is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). A Final Environmental Impact Assessment (EIA) Report has been prepared in July 2007 to consider the key issues of noise, air quality, water quality, ecological, construction waste and human health risk, and identify possible mitigation measures. The Final EIA Report was endorsed by Environmental Protection Department (EPD) on 8 November 2007 and was included in the EIA register under the EIAO as report no. AEIAR-113/2007. Environmental Monitoring and Audit (EM&A) Manual for the Final EIA Report was also included as part of the Final EIA report in the register. An Environmental Permit (EP) No. EP-295/2007 was issued on 3<sup>rd</sup> December 2007 for the Project "Harbour Area Treatment Scheme - Provision of Disinfection Facilities at Stonecutters Island Sewage Treatment Works" to the Drainage Services Department (DSD) as Permit Holder. This Project comprises the Construction Phase of the Project "Harbour Area Treatment Scheme – Provision of Disinfection Facilities at Stonecutters Island Sewage Treatment Works".
- 1.2 The Project comprises mainly the construction of the advance disinfection facilities (ADF) include:
  - (a) Chlorination system provision of a sodium hypochlorite solution storage farm and associated dosing system; and
  - (b) Dechlorination system provision of a sodium bisulphite storage and associated dosing system.
- 1.3 The Project site layout plan is shown in **Figure 1.1.**
- 1.4 The Project will be constructed within the existing sewage treatment works on Stonecutters Island (SCISTW), which is providing Chemically Enhanced Primary Treatment (CEPT) for 1.4 million cubic metres of sewage collected each day through deep tunnels from the HATS Stage 1 catchments (i.e. the whole of Kowloon peninsula, Tseung Kwan O, Kwai Chung, Tsing Yi, Chai Wan and Shau Kei Wan). The design treatment capacity of the SCISTW is 1.7 million cubic metres per day. At present, the plant has no disinfection facility and the CEPT treated effluent is now discharged to the waters southwest of Stonecutters Island through a 1.7 km long outfall.
- 1.5 The chlorination system of the disinfection facilities would be located within the site boundary of the existing SCISTW (**Figure 1.1** refers). The dechlorination plant would be located adjacent to the existing chamber no. 15 (**Figure 1.1** refers) at the western end of Container Port Road South.

- 1.6 China Harbour Engineering Company Limited (CHEC) was awarded as the main contractor (hereinafter called "the Contractor") of the Project. Cinotech Consultants Limited (Cinotech) was commissioned by CHEC as the Environmental Team (ET). Dr. Priscilla CHOY of Cinotech was appointed as the ET Leader of the Project in accordance with EP Condition 2.1. Hyder Consulting Limited (Hyder) was employed by DSD to undertaken Independent Environmental Checker (IEC) services of the Project and Mr. Antony Wong of Hyder was appointed as the IEC under EP Condition 2.2.
- 1.7 The construction works for Portions 1 & 2 and Portions 3 & 4 of the Project were commenced on 18<sup>th</sup> July 2008 and 18<sup>th</sup> September 2008 respectively.
- 1.8 This is the 2<sup>nd</sup> quarterly EM&A summary report summarizing the EM&A works conducted for the Project between October and December 2008.

# 2 PROJECT CHARACTERISTICS

# **Project Organization and Contacts of Key Management**

- 2.1 Different parties with different levels of involvement in the project organization include:
  - Project Proponent/ Permit Holder Drainage Services Department (DSD)
  - Engineer's Representative (ER) Ove Arup & Partners Hong Kong Ltd. (ARUP)
  - Contractor China Harbour Engineering Company Limited (CHEC)
  - Environmental Team (ET) Cinotech Consultants Ltd. (Cinotech)
  - Independent Environmental Checker (IEC) Hyder Consulting Limited (Hyder)
- 2.2 The organization chart and key contacts of the Project are shown in **Appendix A and Figure 1.3**.

# **Construction Programme and Synopsis of Work**

- 2.3 The construction programme is presented in **Appendix B**. The site activities undertaken during the reporting quarter included:
  - Diversion of DN250 Watermain at Day Tank Storage Area;
  - Static load test for mini-piles at Day Tank Storage Area;
  - Construction of Barge Unloading Area;
  - Construction of Switch Room No. 1, Wash-out Chamber No. 2 & sample store room;
  - Excavation & Extension of existing PPC piles for Chlorination Compound;
  - Excavation for Dechlorination Plant in Portion 4;
  - Plate loading test for Dechlorination Plant;
  - Excavation & Construction of Switch Room no. 2 & Day Tank Storage Area;
  - Construction of Washout Chamber no. 1;
  - Construction of Dechlorination Plant;
  - Construction of Sodium Hypochlorite Storage Compound;
  - Construction of pipe trench; and
  - Construction of drainage works.

# 3 ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS

# **Monitoring Parameters and Monitoring Locations**

- 3.1 The Final EM&A Manual designated locations for the ET to monitor environmental impacts in terms of air quality and noise due to the Project. The Project area and monitoring location are depicted in **Figure 1.2**. **Appendix C** gives details of monitoring requirements.
- 3.2 Due to the sensitivity of the military installations within Barracks building, the People's Liberation Army (PLA) had declined ET's request for setting up the air quality monitoring station AM2 (Ngong Shuen Chau Barracks Group 2) and construction noise monitoring station NM1 (Barracks Buildings). Considering there is no other sensitive receiver within the EIA study area (500m from the Project site boundary of Portions 3 & 4 for Air Quality and 300m from the Project site boundary of Portions 3 & 4 for Noise) and no significant environmental impact form the project is anticipated, the ET Leader proposed to cancel all environmental monitoring works at the designated monitoring stations AM2 and NM1. The proposal has been verified by IEC on 19<sup>th</sup> August 2008 and approved by EPD on 2<sup>nd</sup> September 2008.
- 3.3 Only air quality monitoring (1-hour & 24-hour TSP) at AM1 (Rooftop, Block A of Government Dockyard) will be conducted for the project.

# **Monitoring Methodology and Calibration Details**

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

# **Environmental Quality Performance Limits (Action and Limit Levels)**

3.5 The environmental quality performance limits, i.e. Action and Limit Levels were derived from the baseline monitoring results. 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 **Appendix D**.

# **Environmental Mitigation Measures**

- 3.6 Relevant mitigation measures as recommended in the project EIA report have been stipulated in the Final EM&A Manual for the Contractor to implement. A summary of the Environmental Mitigation Implementation Schedule (EMIS) is given in **Appendix F**.
- 3.7 In accordance with the Final EM&A Manual, site audit shall be carried out by ET on weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site.

### 4 MONITORING RESULTS

### **Weather Conditions**

4.1 The weather conditions during monitoring sessions were mainly sunny and sometimes cloudy. The weather conditions for each individual monitoring session were presented in the field record sheets.

# **Air Quality**

1-hr TSP Monitoring

- 4.2 All 1-hour TSP monitoring at AM1 (Rooftop, Block A of Government Dockyard) were conducted as scheduled in the reporting quarter.
- 4.3 The results of 1-hour TSP ranged between 11  $\mu$ g/m³ and 295  $\mu$ g/m³. No Action/Limit Level exceedance was recorded.

24-hr TSP Monitoring

- 4.4 All 24-hr TSP monitoring at AM1 (Rooftop, Block A of Government Dockyard) were conducted as scheduled in the reporting quarter.
- 4.5 The results of 24-hour TSP ranged between 26  $\mu$ g/m<sup>3</sup> and 134  $\mu$ g/m<sup>3</sup>. No Action/Limit Level exceedance was recorded.
- 4.6 The monitoring data of 1-hr and 24-hr TSP Levels were attached in the appendices of the Monthly Reports for October to December 2008. The graphical presentations of the monitoring results for the reporting quarter are shown in **Appendix E**.
- 4.7 The summary of the 1-hr and 24-hr TSP exceedance is shown in **Appendix I**.

#### 5 **ENVIRONMENTAL AUDIT**

# **Implementation Status of Environmental Mitigation Measures**

5.1 The implementation status of environmental mitigation measures (EMIS) is given in Appendix F.

# **Site Audit Summary**

5.2 During site inspections in the reporting period, no non-conformance was identified. The observations and recommendations made in each site audit session in the reporting period are summarized in Table 5.1.

ET's Observations and Recommendations of Site Audits **Table 5.1** 

Parameters	Date	Observations and Recommendations	Follow-up
		Observation: Ponding water was observed near the entrance of Works Area B. The Contractor was reminded to fill it up with silt or concrete.	The situation was observed improved/rectified in audit session 81015.
Water Quality	8 Oct 08	Reminder:  Due to the high using rate of the Wheel Washing Bay, the Contractor was reminded to clear the silty water and sediment more frequently (e.g. everyday) whenever necessary.	The situation was observed improved/rectified in audit session 81015.
	15 Oct 08	Reminder: The Contractor was reminded to provide larvicide weekly to the ponding groundwater at Switch Room No.1.	The situation was observed improved/rectified in audit session 81022.
	2 Oct 08	Observation:  Exposed stockpiles of excavated materials were observed near Switch Room No.1 and Wash-out Chamber No.1. The Contractor was reminded to cover them with tarpaulin to avoid dust emission.	The situation was observed improved/rectified in audit session 81008.
Air Quality	8 Oct 08	Observation: Exposed stockpile of excavated materials was observed near Existing Chamber No.15. The Contractor was reminded to cover it with tarpaulin to avoid dust emission.	The situation was observed improved/rectified in audit session 81015.
	15 Oct 08	Reminder: The Contractor was reminded to provide water spraying to the dried surface around the site area (e.g. Works Area B).	The situation was observed improved/rectified in audit session 81022.

Parameters	Date	Observations and Recommendations	Follow-up
		Observation: Silt and debris were observed on the ground near Switch Room No.1, Wash-out Chamber No.1 and along the road outside Site Office. The Contractor was reminded to clean it up.	The situation was observed improved/rectified in audit session 81029.
	22 Oct 08	Observation:  Exposed stockpile of excavated materials was observed near Existing Chamber No.15. To avoid dust emission, the Contractor was reminded to well cover the exposed stockpile before backfilling.	The situation was observed improved/rectified in audit session 81029.
	5 Nov 08	Observation: Silt was observed on the ground near Wash-out Chamber No.1. The Contractor was reminded to clean it up to avoid dust emission.	The situation was observed improved/rectified in audit session 81112.
	12 Nov 08	Reminder: The Contractor was reminded to also provide water spraying to or cover the exposed excavated materials at the inward area of Works Area B to avoid dust emission.	The situation was observed improved/rectified in audit session 81119.
		Reminder: The Contractor was reminded to clean up the silty dust at the entrance of Daytank Storage Area regularly after work.	The situation was observed improved/rectified in audit session 81119.
	19 Nov 08	Observation:  Exposed excavated materials were observed at the inward area of Works Area B. Although water spraying has been provided, the Contractor was recommended to well cover it with tarpaulin to avoid dust emission.	The situation was observed improved/rectified in audit session 81127.
	10 Dec 08	Reminder The Contractor was reminded to fully cover the excavated materials at Daytank Storage Area.	The situation was observed improved/rectified in audit session 81217.
	17 Dec 08	Observation Exposed stockpiles of excavated materials were observed at Works Area B. The Contractor was advised to remove the disused rocks off site and well cover the silt with tarpaulin before backfilling.	The situation was observed improved/rectified in audit session 81224.
	24 Dec 08	Observation  Excavated materials were observed on the ground outside site boundary of the constructing pipe trench near Works Area B. The Contractor was reminded to clean it up.	This item will be followed up in the coning audit sessions.

Parameters	Date	Observations and Recommendations	Follow-up
		Observation  Exposed stockpiles of excavated materials were observed near Wash-out Chamber No.1 and existing Chamber No.15. The Contractor was reminded to cover them with tarpaulin to prevent dust emission.	This item will be followed up in the coning audit sessions.
	2 Oct 08	Observation: Oil containers without drip tray were observed standing on the ground near Switch Room No.1 and Wash-out Chamber No.1. The Contractor was reminded to provide drip trays for them.	The situation was observed improved/rectified in audit session 81008.
	8 Oct 08	Observation: Untidy construction materials and wastes were observed around the site area near Switch Room No.1. The Contractor was reminded to tidy up the site area.	The situation was observed improved/rectified in audit session 81015.
	29 Oct 08	Observation: Untidy working spaces (with silt and debris on the ground) were observed around the Site Area. The Contractor was reminded to tidy up and clean up the working spaces.	The situation was observed improved/rectified in audit session 81105.
Waste/Chemical Management	5 Nov 08	Observation: Oil spillage was observed on the ground near Chamber No.15. The Contractor was reminded to clean it up.	The situation was observed improved/rectified in audit session 81112.
Managemen	19 Nov 08	Observation: General refuse was observed accumulated near Daytank Storage Area. The Contractor was reminded to clean it up.	The situation was observed improved/rectified in audit session 81127.
	27 Nov 08	Observation: Pipes and wooden materials were observed untidily placed at Barge Unloading Area. The Contractor was reminded to tidy it up.	The situation was observed improved/rectified in audit session 81203.
	3 Dec 08	Observation: Silt and debris were observed on the ground at Barge Unloading Area and Daytank Storage Area. The Contractor was reminded to clean it up.	The situation was observed improved/rectified in audit session 81210.
	10 Dec 08	Observation:  Movable generator and oil container without drip tray were observed near Chamber 15. The Contractor was reminded to provide drip tray for it	The situation was observed improved/rectified in audit session 81217.

Parameters	Date	Observations and Recommendations	Follow-up
	17 Dec 08	Observation  Debris and untidy materials were observed on the ground of Daytank Storage Area. The Contractor was reminded to clean and tidy up the working space after work.  Reminder  The Contractor was reminded to provide drip tray or tentative measure for the oil containers around site area.	The situation was observed improved/rectified in audit session 81224.  The situation was observed improved/rectified in audit session 81224.
	24 Dec 08	Reminder The Contractor was reminded to clean up the dusty water barriers near Switch Room No.1.	This item will be followed up in the coning audit sessions.

### **Status of Environmental Licenses and Permits**

5.3 Environmental licenses and permits including the Environmental Permit (EP), Chemical Waste Producer License, a billing account for Disposal of construction waste, Waste Water Discharge License and Construction Noise Permit (CNP) were in place and valid during the reporting quarter. A summary of status of licenses and permits is given in **Appendix G**.

# **Advice on Waste Management Status**

5.4 In this reporting period, excavated materials regard as inert Construction and Demolition (C&D) waste were the main C&D wastes disposed as Public Fill and no chemical waste was generated. The amount of wastes generated by the activities of the Project in the reporting period was attached in the appendices of the Monthly Reports for October to December 2008.

# 6 NON-COMPLIANCE (EXCEEDANCE) OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS (ACTION AND LIMIT LEVELS)

# **Summary of Exceedance**

- 6.1 Environmental monitoring works were performed in the reporting period and all monitoring results were checked and reviewed. A summary of exceedance is attached in **Appendix I**.
- 6.2 No Action/Limit Level exceedance was recorded for both 1-hour TSP and 24-hour TSP of air quality monitoring in the reporting period.

# Review of the Reasons for and the Implications of Non-compliance

6.3 There was no non-compliance from the site audits in the reporting period. The observations and recommendations made in each individual site audit session were presented in Table 5.1.

# Summary of action taken in the event of and follow-up on non-compliance

6.4 There was no particular action taken since no non-compliance was observed from the site audits in the reporting period.

### 7 ENVIRONMENTAL COMPLAINT

7.1 No environmental complaint was received in the reporting period. The updated Complaint Log is attached in **Appendix H**.

# 8 NOTIFICATION OF SUMMON AND SUCCESSFUL PROSECUTION

8.1 No environmental prosecution was recorded in the reporting period.

# 9 COMMENTS, CONCLUSIONS AND RECOMMENDATIONS

- 9.1 Major site activities for the coming months include:
  - Construction of Switch Room no. 2 & Day Tank Storage Area;
  - Construction of Barge Unloading Area;
  - Construction of Washout Chamber no. 1;
  - Construction of Dechlorination Plant;
  - Construction of Sodium Hypochlorite Storage Compound;
  - Construction of pipe trench;
  - Construction of drainage works; and
  - Modification of L.V. Switchboards.
- 9.2 Key issues to be considered in the coming months include:
  - Dust emission from concrete breaking, excavation and loading and unloading dusty materials:
  - Surface runoff from the Site area due to construction works and rain;
  - Noise nuisance from operation of equipment and machinery on site;
  - Maintenance of de-silting facilities and drainage system, such as U-channels;
  - Formation of ponding/ stagnant water on site;
  - Storage of chemicals/fuel and chemical waste/waste oil on site;
  - Larviciding against mosquito breeding in stagnant water should be carried out at least on a weekly basis; and
  - Accumulation of C&D waste and general waste on site.
- 9.3 According to the environmental audit sessions performed in the reporting period, the following recommendations were made:

### Water Impact

- To ensure proper use and maintenance of the de-silting facilities and drainage system;
- To avoid formation of ponding/ stagnant water on site;
- To carry out larviciding regularly against mosquito breeding;
- To well maintain the drainage system inside and around the Site area; and
- To prevent surface runoff into public area or drainage channel.

# **Dust Impact**

- To provide water spraying regularly on stockpiles of dusty materials, loading/unloading of dusty materials and dried site areas;
- To remain good site practice on handling excavated or dusty material for dust suppression, e.g. covering by impervious materials;
- To check and maintain the mechanical equipments regularly to avoid black smoke emission; and
- To provide adequate enclosure, i.e. three sides and top covers, for the cement mixing works for dust suppression.

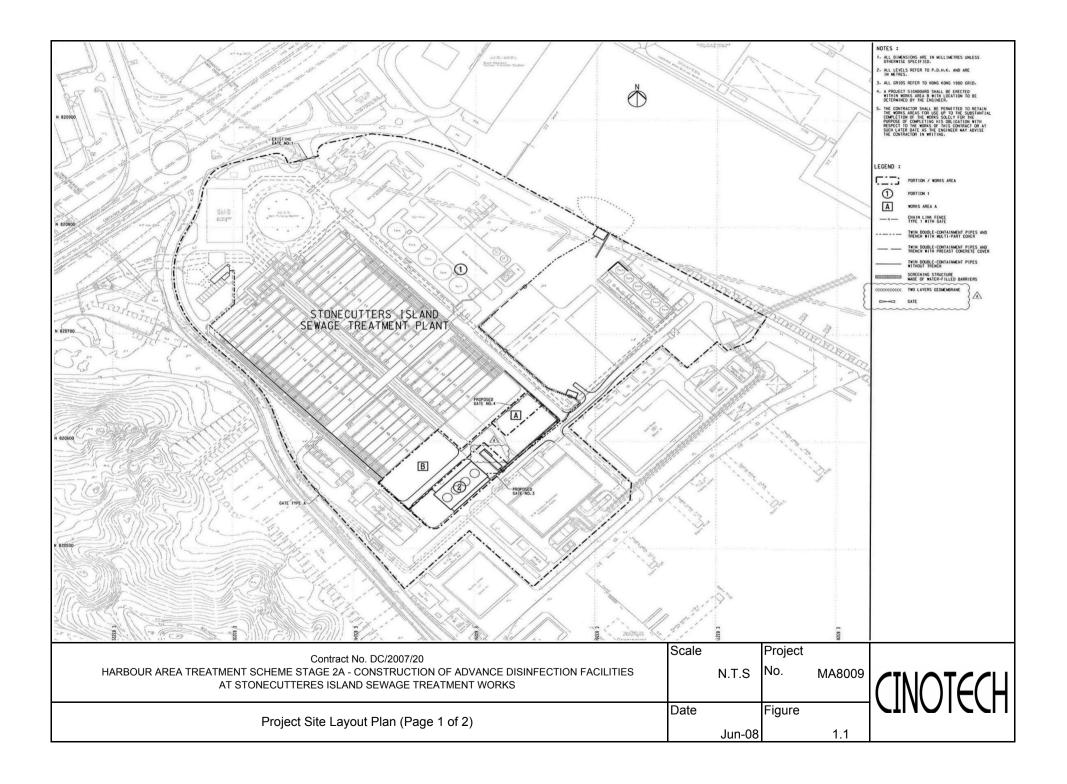
# Noise Impact

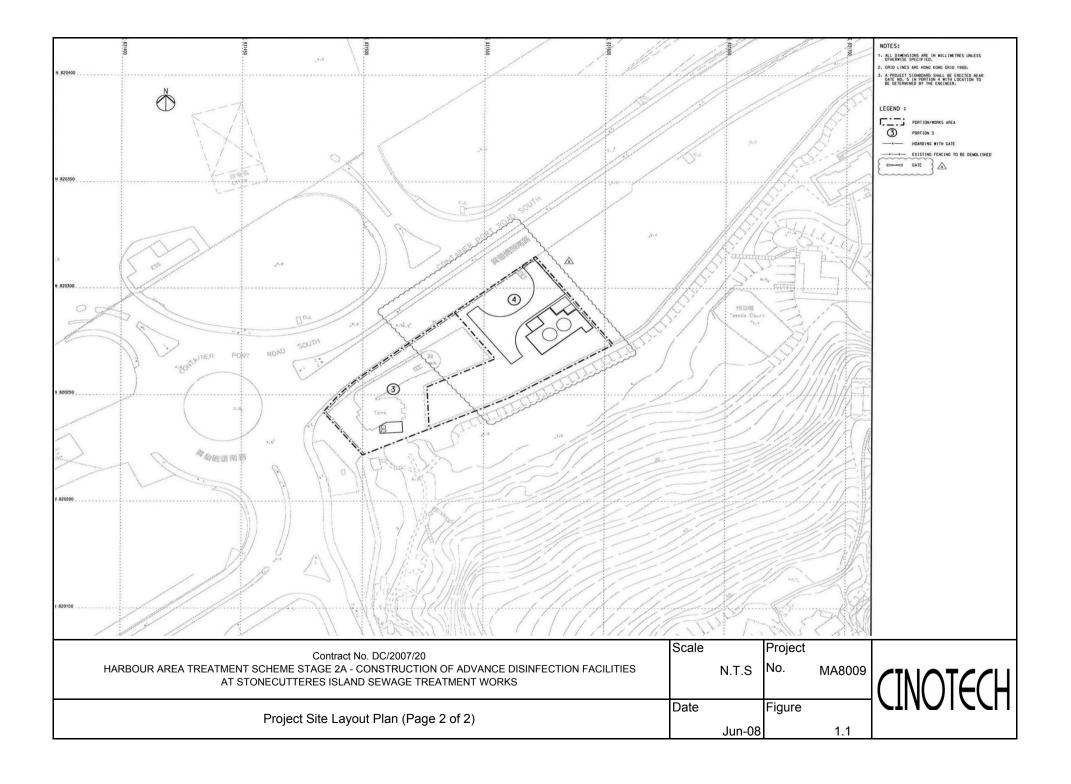
- To space out noisy equipments and position as far away as possible from sensitive receivers;
- To provide adequate lubricant on mechanical equipments to reduce frictional noise; and
- To well maintain the mechanical equipments / machineries to avoid abnormal noise nuisance.

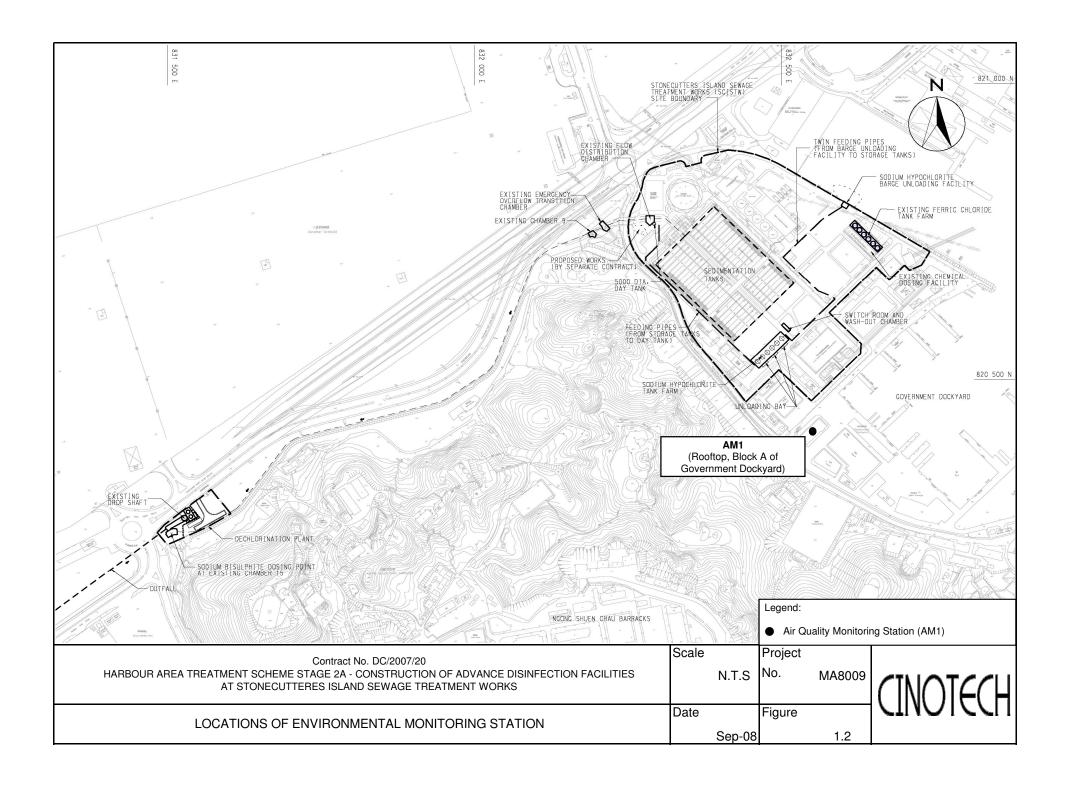
# Waste / Chemical Management

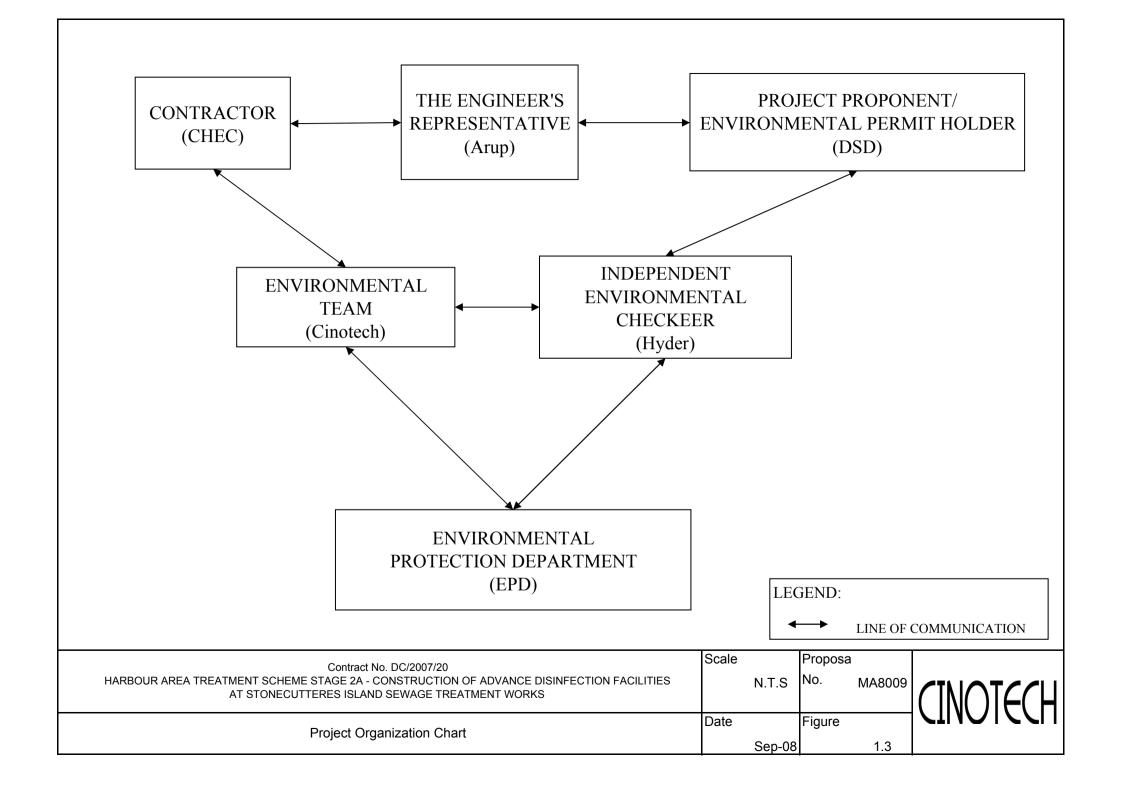
- To provide proper rubbish bins / skips for waste collection;
- To provide proper storage area or drip trays for oil containers on site;
- To avoid and check for any accumulation of waste materials or rubbish on site;
- To avoid any discharge or accidental spillage of chemical waste or oil directly from the equipment; and
- To well maintain the equipments and drip trays to avoid oil leakage.

# **FIGURES**









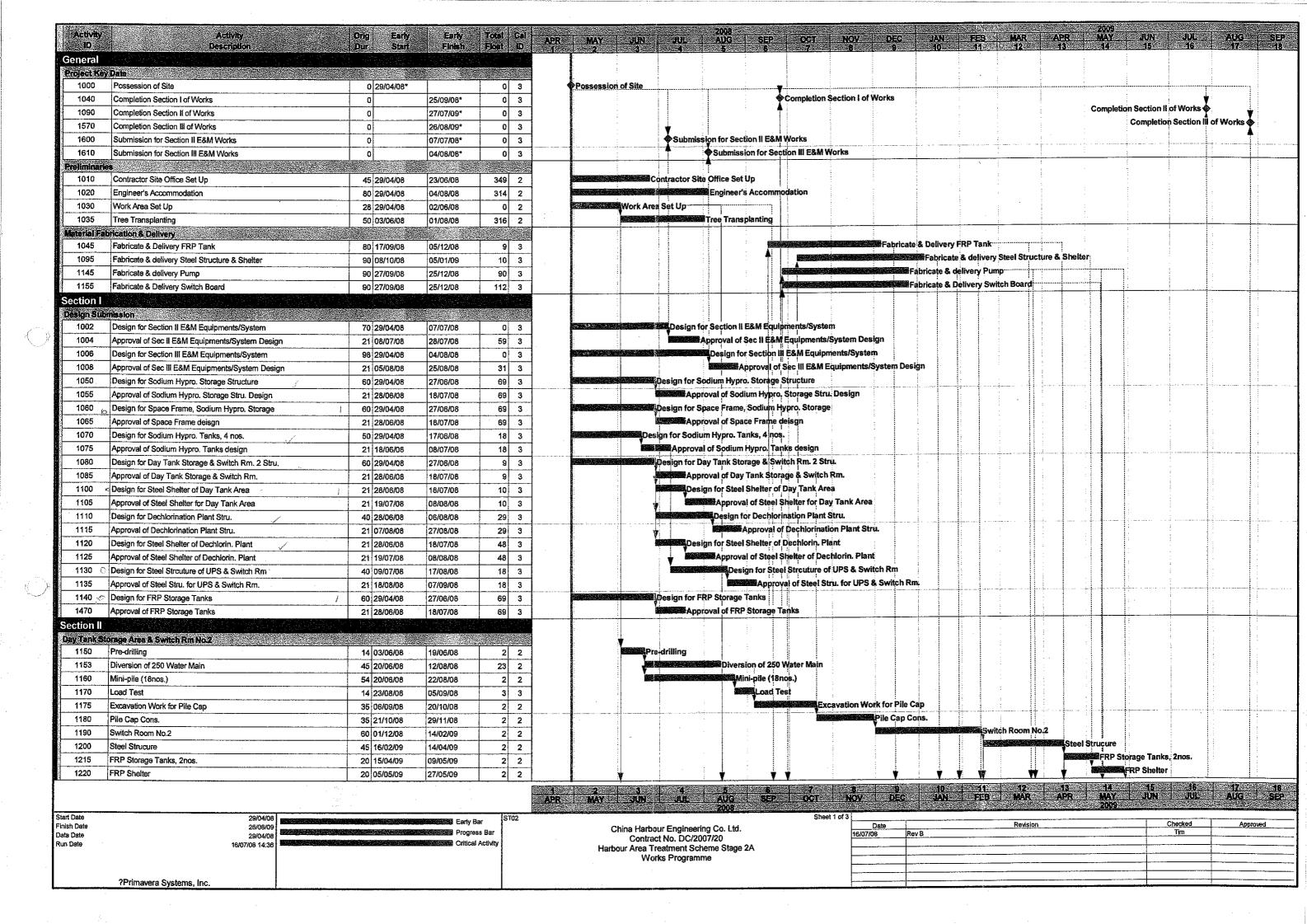
APPENDIX A CONTACT DETAILS OF THE PROJECT ORGANISATION

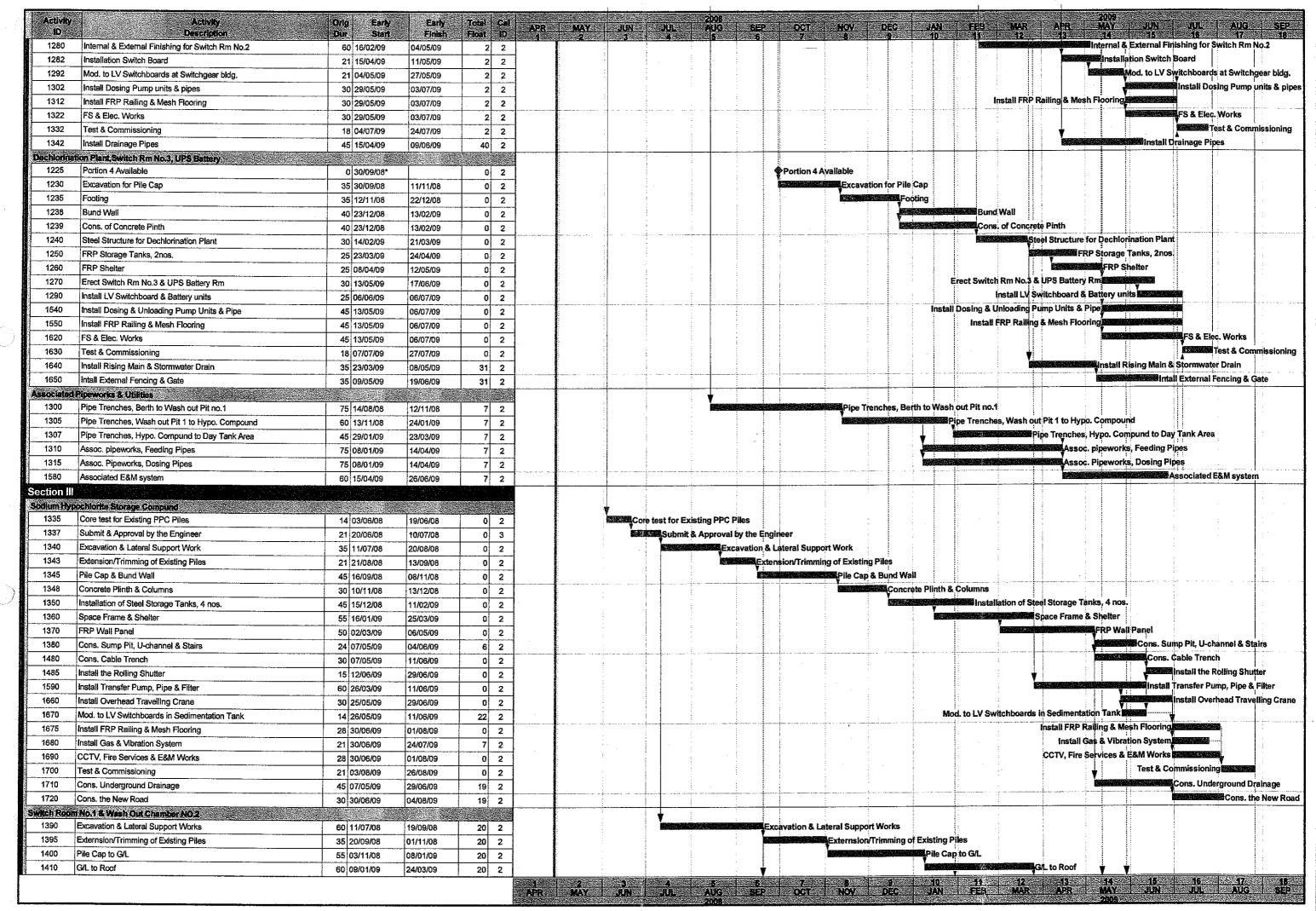
**Quarterly EM&A Report** 

# Appendix A - Contact Details of the Project Organisation

Party	Role	Name	Position	Phone No.	Fax No.
DSD	Project Proponent/ Permit Holder	Ms. Ada LAI	Engineer	2159 3411	2833 9162
ARUP	Engineer's	Mr. Gary CHEUNG	Resident Engineer	6201 3158	2407 8772
ARUP	Representative	Mr. Sunny LO	Inspector of Works	6345 0548	24078772
		Mr. T. K. CHEUNG	Project Manager	2741 0191	
CHEC	Contractor	Mr. Aaron AU	Site Agent	6345 0754	2741 2772
		Mr. M. C. LAM	Environmental Officer	9483 0566	
	Environmental Team	Dr. Priscilla CHOY	Environmental Team Leader	2151 2089	
Cinotech		Mr. Robert TSANG	Project Coordinator and Audit Team Leader	2151 2099	3107 1388
		Mr. Henry LEUNG	Monitoring Team Leader	2151 2087	
	Independent Environmental Checker	Mr. Antony WONG	Independent Environmental Checker	2911 2744	
Hyder		Ms. Selina LEUNG	Independent Environmental Checker Representative	2911 2745	2805 5028

# APPENDIX B CONSTRUCTION PROGRAMME





Sheet 2 of 3

Activity ID	Activity Description	Orig Early Dur Start	Early Finish	Total Cal Float ID	2008 2009  PR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL 2 2 2 3 4 5 6 7 8 9 10 11 12 13 14 15 15	AUG S
1420	Internal & External Finishing	45 25/03/09	22/05/09	20 2	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	Annual Control of the
1430	Install Elec. Travelling Hoist	14 12/05/09	27/05/09	20 2	Install Elec. Travelling Hols	st
1530	Install the Switch Board	28 12/05/09	13/06/09	20 2	install the Switch Bo	bard
1730	Install Washout Pump and Pipes	35 29/05/09	09/07/09	20 2	Install Washout Pump and Pipes	
1740	Fire Services & E&M Works	21 15/06/09	09/07/09	20 2	Fire Service	ces & E&M V
1750	Test & Commissioning	21 10/07/09	03/08/09	20 2	Test & Commissioning	
ishout Ch	iamber No.1					
1435	Excavation & Lateral Support Works	45 20/09/08	13/11/08	20 2	Excavation & Lateral Support Works	
1440	Construction of Wash Out Pit No.1	60 14/11/08	29/01/09	93 2	Construction of Wash Out Pit No.1	
1760	Install Washout Pump & Pipe	28 30/01/09	03/03/09	93 2	Instail Washout Pump & Pipe	
1770	Fire Service & E&M Works	28 04/03/09	07/04/09	93 2	Fire Service & E&M Works	:
1775	Test & Commissioning	21 08/04/09	07/05/09	93 2	Test & Commissioning	:
or construction	iding Area					
1450	Excavation & Lateral Support Works	30 14/11/08	18/12/08	20 2	Excavation & Lateral Support Works	
1460	Construction of Structure	45 19/12/08	16/02/09	20 2	Construction of Structure	
1520	E&M Works	28 17/02/09	21/03/09	107 2	E&M Works	
1780	Mod. LV Switchboards at Ferric Chloride Storage	14 12/03/09	28/03/09	107 2	Mod. LV Switchboards at Ferric Chloride Storage	
1790	Test & Commissioning	14 30/03/09	18/04/09	107 2	Test & Commissioning	
and a profession or profession and an	Cons. Extension Bundwall & 200 UC	28 17/02/09	21/03/09	127 2	Cons. Extension Bundwall & 200 UC	
hers	Constitution of the second					
	Gas & Vib. Delection for Ferric Chloride Storage	14 12/03/09	28/03/09	121 2	Gas & Vib. Delection for Ferric Chloride Storage	
1486	CCTV System for Ferric Chloride Storage	14 12/03/09	28/03/09	121 2	CCTV System for Ferric Chloride Storage	
<u> </u>	Truck Unloading Sys for Ferric Chloride Storage	14 12/03/09	28/03/09	121 2	Truck Unloading Sys for Ferric Chloride Storage	
	Demolition of storage struc.	45 17/02/09	15/04/09	20 2	Demolition of storage struc.  Provision of storage struc.	. [
	Provision of storage struc.  Road Work	90 16/04/09	03/08/09	20 2	Provision of storage struct.	Dond Mar
	Cons. Gate Type A	60 23/05/09	03/08/09	20 2		
1010	Cons. Gate Type A	30 29/06/09	03/08/09	20 2		Cons. Gate T

# APPENDIX C MONITORING REQUIREMENTS

# **APPENDIX C – Monitoring Requirements**

Type of Monitoring	Parameter	Frequency	Location of Measurement
Air Quality	1-hour TSP	3 times / 6-day	AM1 (Rooftop, Block A of Government Dockyard)
	24-hour TSP	Once / 6-day	

Remarks: Due to the sensitivity of the military installations within Barracks building, the People's Liberation Army (PLA) had declined ET's request for setting up the air quality monitoring station AM2 (Ngong Shuen Chau Barracks – Group 2) and construction noise monitoring station NM1 (Barracks Buildings). Considering there is no other sensitive receiver within the EIA study area (500m from the Project site boundary of Portions 3 & 4 for Noise) and no significant environmental impact form the project is anticipated, the ET Leader proposed to cancel all environmental monitoring works at the designated monitoring stations AM2 and NM1. The proposal has been verified by IEC on 19<sup>th</sup> August 2008 and approved by EPD on 2<sup>nd</sup> September 2008.

# APPENDIX D ACTION AND LIMIT LEVELS

# **APPENDIX D - Action and Limit Levels**

Table D-1 Action and Limit Levels for 1-Hour TSP

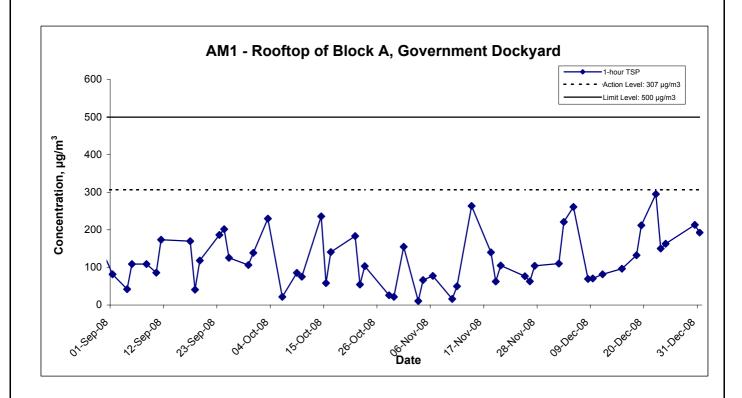
Location	Action Level, μg/m <sup>3</sup>	Limit Level, μg/m³
AM1	307	500

Table D-2 Action and Limit Levels for 24-Hour TSP

Location	Action Level, μg/m³	Limit Level, μg/m³
AM1	158	260

APPENDIX E
GRAPHICAL PRESENTATION OF AIR
QUALITY MONITORING RESULTS

### 1-hr TSP Concentration Levels



Title Contract No. DC/2007/20
HATS Stage 2A – Construction of Advance Disinfection Facilities at SCISTW

Graphical Presentation of 1-hour TSP Monitoring Results

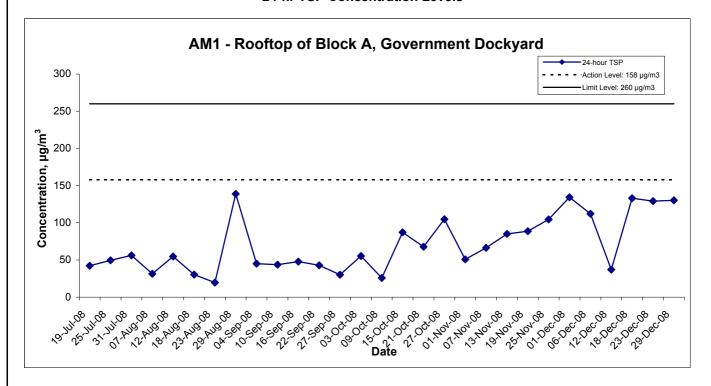
Scale N.T.S Project No. MA8009

Date Dec 08

Appendix

Dec 08

### 24-hr TSP Concentration Levels



Title Contract No. DC/2007/20
HATS Stage 2A – Construction of Advance Disinfection Facilities at SCISTW

Graphical Presentation of 24-hour TSP Monitoring Results

Scale N.T.S Project No. MA8009

Date Dec 08 Appendix

E

APPENDIX F SUMMARY OF ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

# **APPENDIX F – Summary of Environmental Mitigation Implementation Schedule (EMIS)**

EIA Ref	Environmental Protection Measures/Mitigation Measures	Location/Timing	Implementation	Im	plementa	tion Sta	ges*	Relevant Legislation and Guidelines
			Agent				Dec	
S3.29	Dust mitigation measures stipulated in the Air Pollution Control (Construction Dust)	Work sites / During	Contractor		√			EIAO-TM and Air
	Regulation should be incorporated to control dust emission from the site. Control measures	the construction						Pollution Control
	relevant to this Project are listed below:	period						(Construction Dust)
	Skip hoist for material transport should be totally enclosed by impervious sheeting;							Regulation
	Vehicle washing facilities should be provided at every vehicle exit point;							
	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 hardcore;							
	Where a site boundary adjoins a road, streets or other areas accessible to the public,							
	hoarding of not less than 2.4 m high from ground level should be provided along the							
	entire length except for a site entrance or exit;							
	Use of regular watering, with complete coverage, to reduce dust emissions from							
	exposed site surfaces and unpaved roads, particularly during dry weather;							
	Side enclosure and covering of any aggregate or dusty material storage piles to							
	reduce emissions. Where this is not practicable owing to frequent usage, watering							
	shall be applied to aggregate fines;							
	Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty							
	material storage piles near ASRs;							
	Tarpaulin covering of all dusty vehicle loads transported to, from and between site							
	locations;							
	Imposition of speed controls for vehicles on unpaved site roads. Ten kilometers per							

EIA Ref	Environmental Protection Measures/Mitigation Measures	Location/Timing	Implementation	Im	plementa	tion Sta <sub>i</sub>	ges*	Relevant Legislation
			Agent	Des	С	О	Dec	
	hour is the recommended limit;							
	• Every stock of more than 20 bags of cement should be covered entirely by							
	impervious sheeting placed in an area sheltered on the top and the 3 sides;							
	• Every vehicle should be washed to remove any dusty materials from its body and							
	wheels before leaving the construction sites; and							
	• Instigation of an environmental monitoring and auditing program to monitor the							
	construction process in order to enforce controls and modify method of work if							
	dusty conditions arise.							
S4.48 –		Work sites / During	Contractor		$\checkmark$			EIAO-TM and Noise
\$4.48 = \$4.50	Use of quiet PME	the construction						Control Ordinance
34.30		period						
	Good Site Practice	Work sites / During	Contractor		$\checkmark$			EIAO-TM and Noise
	• Only well-maintained plant should be operated on-site and plant should be serviced	the construction						Control Ordinance
	regularly during the construction program;	period						
	• Silencers or mufflers on construction equipment should be utilized and should be							
	properly maintained during the construction program;							
S4.51	• Mobile plant, if any, should be sited as far from NSRs as possible;							
54.51	• Machines and plant (such as trucks) that may be in intermittent use should be shut							
	down between work 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; and							
	Material stockpiles and other structures should be effectively utilised, wherever							
	practicable, in screening noise from on-site construction activities.							

EIA Ref	Environmental Protection Measures/Mitigation Measures	Location/Timing	Implementation	Im	plementa	tion Sta	ges*	Relevant Legislation
			Agent	Des	C	О	Dec	
\$4.56 & \$13	Noise monitoring should be carried out to ensure that noise mitigation measures would be properly implemented. Details of the monitoring requirements are specified in the EM&A	Barrack / During the construction period	Contractor		√			EIAO-TM and Noise Control Ordinance
\$5.212	Manual.  The practices outlined in ProPECC PN 1/94 Construction Site Drainage should be adopted. It is recommended to install perimeter channels in the works areas to intercept runoff at site boundary prior to the commencement of any earthwork. To prevent storm runoff from washing across exposed soil surfaces, intercepting channels should be provided. Drainage channels are also required to convey site runoff to sand/silt traps and oil interceptors. Provision of regular cleaning and maintenance can ensure the normal operation of these facilities throughout the construction period. Any practical options for the diversion and realignment of drainage should comply with both engineering and environmental requirements in order to ensure adequate hydraulic capacity of all drains.	Work sites / During the construction period	Contractor		<b>√</b>			EIAO-TM and Water  Pollution Control  Ordinance
S5.213	There is a need to apply to EPD for a discharge licence under the WPCO for discharging effluent from the construction site. The discharge quality is required to meet the requirements specified in the discharge licence. All the runoff and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM-DSS. Reuse and recycling of the treated effluent can minimise water consumption and reduce the effluent discharge volume. The beneficial uses of the treated effluent may include dust suppression, wheel washing and general cleaning. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the WPCO license which is under the ambit of regional office (RO) of EPD.	Work sites / During the construction period	Contractor		√			EIAO-TM and Water Pollution Control Ordinance

EIA Ref	Environmental Protection Measures/Mitigation Measures	Location/Timing	Implementation	Im	plementa	tion Sta	ges*	Relevant Legislation
			Agent	Des	С	О	Dec	
	The construction programme should be properly planned to minimise soil excavation, if	Work sites / During	Contractor		<b>√</b>			EIAO-TM and Water
	any, in rainy seasons. This prevents soil erosion from exposed soil surfaces. Any exposed	the construction						Pollution Control
	soil surfaces should also be properly protected to minimise dust emission. In areas where a	period						Ordinance
	large amount of exposed soils exist, earth bunds or sand bags should be provided. Exposed							
	stockpiles should be covered with tarpaulin or impervious sheets at all times. The stockpiles							
S5.214	of materials should be placed at locations away from any stream courses so as to avoid							
	releasing materials into the water bodies. Final surfaces of earthworks should be compacted							
	and protected by permanent work. It is suggested that haul roads should be paved with							
	concrete and the temporary access roads protected using crushed stone or gravel, wherever							
	practicable. Wheel washing facilities should be provided at all site exits to ensure that earth,							
	mud and debris would not be carried out of the works areas by vehicles.							
	Good site practices should be adopted to clean the rubbish and litter on the construction	Work sites / During	Contractor		<b>V</b>			EIAO-TM and Water
S5.215	sites so as to prevent the rubbish and litter from spreading from the site area. It is	the construction						Pollution Control
	recommended to clean the construction sites on a regular basis.	period						Ordinance
	The presence of construction workers generates sewage. It is recommended to provide	Work sites / During	Contractor		<b>V</b>			EIAO-TM and Water
	sufficient chemical toilets in the works areas. The toilet facilities should be more than 30 m	the construction						Pollution Control
S5.216	from any watercourse. A licensed waste collector should be deployed to clean the chemical	period						Ordinance
	toilets on a regular basis. The construction workers can also make use of the existing toilet							
	facilities within the SCISTW as necessary.							

EIA Ref	Environmental Protection Measures/Mitigation Measures	Location/Timing	Implementation cation/Timing Agent		plementa	tion Sta	ges*	Relevant Legislation
			Agent	Des	C	О	Dec	
S5.217	Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction phase of the project. Regular environmental audit on the construction site can provide an effective control of any malpractices and can achieve continual improvement of environmental performance on site. It is anticipated that sewage generation during the construction phase of the project would not cause water pollution problem after undertaking all required measures.	Work sites / During the construction period	Contractor		٧			EIAO-TM and Water Pollution Control Ordinance
S5.218	Contractor must register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	Work sites / During the construction period	Contractor		V			EIAO-TM and Waste Disposal Ordinance
\$5.219	Any service shop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges.	Work sites / During the construction period	Contractor		$\checkmark$			EIAO-TM, Waste Disposal Ordinance and Water Pollution Control Ordinance
\$5.220	Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows:  • Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport.  • Chemical waste containers should be suitably labeled, to notify and warn the personnel who are handling the wastes, to avoid accidents.	Work sites / During the construction period	Contractor		V			EIAO-TM and Waste Disposal Ordinance

EIA Ref	Environmental Protection Measures/Mitigation Measures Loca	Location/Timing	Implementation	Im	plementa	tion Sta <sub>s</sub>	Relevant Legislation and Guidelines	
			Agent	Des	С	О	Dec	
	Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.							
	Good Site Practices  Recommendations for good site practices during the the co		Contractor		√			Waste Disposal
								Ordinance (Cap.54)
	construction activities include:	period						ETWB TCW No.
	Nomination of an approved person, such as a site manager, to be responsible for							19/2005
	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 handling							
S10.21	procedures							
	Provision of sufficient waste disposal points and regular collection of waste							
	Appropriate measures to minimise windblown litter and dust during transportation							
	of waste by either covering trucks or by transporting wastes in enclosed containers							
	Regular cleaning and maintenance programme for drainage systems, sumps and oil							
	interceptors.							
	Separation of chemical wastes for special handling and appropriate treatment at the							
	Chemical Waste Treatment Facility.							

EIA Ref	Environmental Protection Measures/Mitigation Measures	Location/Timing	Implementation	Im	plementa	tion Sta	ges*	Relevant Legislation
			Agent	Des	C	О	Dec	
\$10.22	Waste Reduction Measures  Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include:  Segregation and storage of different types of waste indifferent containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal  Encourage collection of aluminium cans by providing separate labelled bins to enable this waste to be segregated from other general refuse generated by the workforce  Proper storage and site practices to minimise the potential for damage or contamination of construction materials  Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.  A recording system for the amount of wastes generated, recycled and disposed (including disposal sites) should be proposed.  Training should be provided to workers about the concepts of site cleanliness and		Contractor	1	√			
	appropriate waste management procedures, including waste reduction, reuse and recycle.							
S10.24	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. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.	Work sites / During the construction period	Contractor		V			Public Health and Municipal Services Ordinance (Cap. 132)

EIA Ref	Environmental Protection Measures/Mitigation Measures	Implementation  Location/Timing  Agent	Implementation Stages*			ges*	Relevant Legislation	
			Agent	Des	C	О	Dec	
	Construction and Demolition Material	Work sites / During	Contractor	<b>√</b>	<b>V</b>			ETWB TCW No.
	In order to minimise impacts resulting from collection and transportation of C&D material	design stage and						33/2002
	for off-site disposal, the excavated material generated from excavation works for the	construction period						ETWB TCW No.
	proposed chlorination plant, dechlorination plant, day tank and pipe trenches should be							19/2005
	reused on-site as backfilling material as far as practicable. The surplus excavated material							
S10.25	should be disposed of at the designated public fill reception facility, as agreed with the							
	Secretary of the Public Fill Committee, for other beneficial uses. C&D waste generated							
	from site clearance and dismantling of formwork would require disposal to the designated							
	landfill site. In order to monitor the disposal of C&D material at the public fill reception							
	facility and landfill and to control fly-tipping, a trip-ticket system should be included. One							
	may make reference to ETWB TCW No. 31/2004 for details.							
	Chemical Waste	Work sites / During	Contractor		$\checkmark$			Waste Disposal
	If chemical wastes are produced at the construction site, the Contractor would be required	the construction						(Chemical Waste)
	to register with the EPD as a chemical waste producer and to follow the guidelines stated in	period						(General) Regulation
	the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good							
	quality containers compatible with the chemical wastes should be used, and incompatible							
S10.26	chemicals should be stored separately. Appropriate labels should be securely attached on							
	each chemical waste container indicating the corresponding chemical characteristics of the							
	chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive,							
	etc. The Contractor shall use a licensed collector to transport and dispose of the chemical							
	wastes, to either the approved Chemical Waste Treatment Centre, or another licensed							
	facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.							

<sup>#</sup> All recommendations and requirements resulted during the course of EIA/EA Process, including ACE and / or accepted public comment to the proposed project.

<sup>\*</sup> Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

APPENDIX G SUMMARY OF ENVIRONMENTAL LICENCES AND PERMITS

# Appendix G - Summary of Environmental Licensing and Permit Status

Permit /	- Details	Status								
License No.	From	To	Details	Status						
		Envir	ronmental Permit (EP)							
EP-295/2007	03/12/07	N/A	The Project involves construction and operation of disinfection facilities (chlorination/dechlorination) within the existing Stonecutters Island Sewage Treatment Works. The disinfection facilities include storage, dosing and associated pipeline systems for sodium hypochlorite sodium bisulphite.	Valid						
	Billin	g Account f	for Disposal of Construction Waste							
7007138	13/05/08	N/A	Disposal of Construction waste.	Valid						
		Chemica	l Waste Producer Number							
WPN: 5213-269- C2397-22	04/09/08	N/A	Disposal of Chemical Waste including lubricating oil, spent batteries and etc.	Valid						
Waste Water Discharge License										
EP760/269/0133011  EP760/269/0133011a	14/07/08	31/07/13	Discharge of industrial trade effluent and all other wastewater arising from Construction site at Stonecutters Island Sewage Treatment Works, Kowloon (Contract No. DC/2007/20 HATS 2A-Construction of Advance Disinfection Facilities at SCISTW) to communal storm drain after solid removal.  Discharge of industrial trade effluent and all other wastewater arising from Construction site of Harbour Area Treatment Scheme 2 A (Portions 3 &	Valid Valid						
E1700/2070133011a	21110100		4), at Container Port Road South, Stonecutters Island, Kowloon to communal storm drain after solid removal.	vana						
		Constru	ction Noise Permit (CNP)							
PP-RW0021-08	20/09/08	19/12/08	Location: Construction site in Stonecutters Island Sewage Treatment Works at Stonecutters Island, Kowloon.  Day and hours for the use of PMEs: 07:00-19:00 on any day not being a general holiday.	Expired						
PP-EW0024-08	20/12/08	19/03/09	Location: Construction site in Stonecutters Island Sewage Treatment Works at Stonecutters Island, Kowloon.  Day and hours for the use of PMEs: 07:00-19:00 on any day not being a general holiday.	Valid						

### APPENDIX H COMPLAINT LOG

## **APPENDIX H – Complaint Log**

**Reporting Period: October to December 2008** 

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

Remarks: No environmental complaint was received from July to December 2008.

#### APPENDIX I SUMMARY OF EXCEEDANCE

**Quarterly EM&A Report** 

### **APPENDIX I – Summary of Exceedance**

- (A) Exceedance Report for 1-hr TSP (NIL in the reporting quarter)
- (B) Exceedance Report for 24-hr TSP (NIL in the reporting quarter)
- (C) Exceedance Report for Construction Noise (NIL in the reporting quarter)