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)

July to September 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

- 1. This is the 1st 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 July and September 2008.
- 2. The construction works for Portions 1 & 2 and Portions 3 & 4 of the Project were commenced on 18th July 2008 and 18th September 2008 respectively.
- 3. The major site activities undertaken in the reporting quarter included:
 - Erection of temporary office for the Engineer;
 - Mobilization of piling Rig for mini-piling works at Day Tank Storage Area;
 - Re-driving existing PPC piles for chlorination compound and Switch Room No.1;
 - Pre-drilling works for Day Tank Storage Area and Switch Room No. 2;
 - Diversion of existing DN250 watermain;
 - Mini-piling works for Day Tank Storage Area & Switch Room No. 2;
 - Proof drilling works for mini-piles at Day Tank Area;
 - Construction of Barge Unloading Area;
 - Construction of Switch Room No. 1;
 - Installation & Excavation of Shoring System for Wash-out Chamber No. 1;
 - Construction of Wash-out chamber no. 2;
 - Construction of Wash-out chamber no. 1;
 - · Construction of Sodium Hypocholorite Storage Compound; and
 - Construction of Dechlorination Plant.

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 Events Recorded in the Reporting Quarter

Parameter	No. of Ex	ceedance	No. of Events	Action Taken	
rarameter	Action Level	Limit Level	Due to this Project		
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 except that of the 6 August 2008 was rescheduled to 7 August 2008 due to the Typhoon signal no. 8. No Action / Limit Level exceedance was recorded.
- 8. The proposal to cancel the environmental monitoring works at designated monitoring stations AM2 and NM1 has been verified by IEC on 19th August 2008 and approved by EPD on 2nd September 2008 as mentioned in Section 2.3 and 3.2 of this report. No air quality and construction noise monitoring will be conducted at AM2 and NM1 respectively for the Project

Environmental Complaint and Prosecution

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

Environmental Licensing and Permitting

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

Key Information in the Reporting Quarter

11. 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	A ation Taken	Status	Domoniz	
Event	Number	Nature	Action Taken	Status	Remark	
Complaint received	0		N/A	N/A		
Changes to the assumptions and key construction / operation activities recorded	0		N/A	N/A		
	1 3	Baseline Environmental Monitoring Report for Portions 1 & 2 (Version 1.1)	Submitted to EPD on 2 nd July 2008 (EP condition 4.3).	No comment		
Status of submissions under EP		Monthly EM&A Report for July 08 (Version 1.0)	Submitted to EPD on 12 th August 2008 (EP condition 4.4).	No comment		
		Monthly EM&A Report for August 08 (Version 1.0)	Submitted to EPD on 9 th September 2008 (EP condition 4.4).	No comment		
Notifications of any summons & prosecutions	0		N/A	N/A		

Future Key Issues

- 12. Major site activities for the coming quarter include:
 - Construction of Barge unloading area;
 - Construction of Switch room no. 1 & Wash-out chamber no. 2;
 - Diversion of the existing DN2520 watermain;
 - Construction of Wash-out Chamber no. 1;
 - Construction of Sodium Hypocholorite Storage Compound;
 - Construction of Dechlorination Plant;
 - · Construction of Day tank & Switch Room no. 2; and
 - Construction of pipe trench.
- 13. The future environmental concerns will be mainly on ponding water and surface runoff due to rain; dust emission from concrete breaking, excavation works and wind erosion; 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 3rd 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.

Harbour Area Treatment Scheme Stage 2A – Construction of Advance Disinfection Facilities at SCISTW Quarterly EM&A Report – July 2008 to September 2008

- 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 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 18th July 2008 and 18th September 2008 respectively.
- 1.8 This is the 1st quarterly EM&A summary report summarizing the EM&A works conducted for the Project between July and September 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:
 - Erection of temporary office for the Engineer;
 - Mobilization of piling Rig for mini-piling works at Day Tank Storage Area;
 - Re-driving existing PPC piles for chlorination compound and Switch Room No.1;
 - Pre-drilling works for Day Tank Storage Area and Switch Room No. 2;
 - Diversion of existing DN250 watermain;
 - Mini-piling works for Day Tank Storage Area & Switch Room No. 2;
 - Proof drilling works for mini-piles at Day Tank Area;
 - Construction of Barge Unloading Area;
 - Construction of Switch Room No. 1;
 - Installation & Excavation of Shoring System for Wash-out Chamber No. 1;
 - Construction of Wash-out chamber no. 2;
 - Construction of Wash-out chamber no. 1;
 - Construction of Sodium Hypocholorite Storage Compound; and
 - Construction of Dechlorination Plant.

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 sensitive 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 19th August 2008 and approved by EPD on 2nd 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 and rainy. 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 during the reporting quarter.
- 4.3 The results of 1-hour TSP were ranged between 25 μ g/m³ and 272 μ 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 this reporting quarter except that of the 6 August 2008 was rescheduled to 7 August 2008 due to the Typhoon signal no. 8.
- 4.5 The results of 24-hour TSP ranged between 20 μ g/m³ and 139 μ g/m³. 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 July 2008 to September 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

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
	9 Jul 08	Formation of ponding water was observed around Works Area B and Daytank Storage Area after rain. The Contractor was reminded to clear the ponding water or provide larvicidal oil regularly to prevent mosquito breeding.	The situation was observed improved/rectified in audit session 80716.
	9 Jul 08	Oil and silt were observed accumulated in the U-channel at Daytank Storage Area. The Contractor was reminded to clean it up and provide sufficient sandbags for desilting of surface runoff.	The situation was observed improved/rectified in audit session 80716.
Water Quality	16 Jul 08	Ponding water was observed at the wheel washing bay at Works Area B. As the wheel washing bay was not ready to use at the moment, the Contractor was reminded to dry out the ponding water or provide larvicidal oil regularly to prevent mosquito breeding.	The situation was observed improved/rectified in audit session 80723.
		Overflow of silty water was observed at Daytank Storage Area. The Contractor was advised to provide extra sandbags for flood protection or reduce the amount of excavated materials.	The situation was observed improved/rectified in audit session 80723.
	30 Jul 08	Silt was observed accumulated higher than the sandbags and close to the edge of the Site Area at Daytank Storage Area. The Contractor was advised to provide sufficient sandbags and clean up the floor to prevent silty surface runoff during rain.	The situation was observed improved/rectified in audit session 80807.
	13 Aug 08	Ponding water was observed in the drip tray at Day Tank Storage Area and Wheel washing Bay at Works Area B. The Contractor was reminded to clear it to avoid mosquito breeding.	The situation was observed improved/rectified in audit session 80820.

Parameters	Date	Observations and Recommendations	Follow-up
	27 Aug 08	Ponding water was observed at Day Tank Storage Area. The Contractor was reminded to clear it to avoid mosquito breeding.	The situation was observed improved/rectified in audit session 80903.
	3 Sep 08	Ponding water was observed inside the piles at Daytank Storage Area after rain. The Contractor was reminded to clear it or provide larvicidal oil to avoid mosquito breeding.	The situation was observed improved/rectified in audit session 80910.
	10 Sep 08	Ponding water was observed near the site offices and inside the drip tray at Works Area B. The Contractor was reminded to dry it out and provide mitigation measures to avoid the formation of ponding water again.	The situation was observed improved/rectified in audit session 80917.
	17 Sep 08	Worn sandbags were observed near the constructing Switch Room No.1. The Contractor was reminded to replace it or provide mitigation measure (e.g. concrete bund) to avoid silty water discharge into the gullies.	The situation was observed improved/rectified in audit session 80924.
17 500 00		Excavated materials were observed accumulated close to the U-channel at Daytank Storage Area. The Contractor was reminded to remove it or provide temporary bund to prevent silty water discharge into public channel.	The situation was observed improved/rectified in audit session 80924.
		Formation of ponding water was observed around the site area after typhoon. The Contractor was reminded to pump out the ponding water and discharge via sedimentation facilities whenever necessary.	This item will be followed up in the coming audit session.
	24 Sep 08	Worn sand bags were observed at the Barge Unloading Area. The Contractor was reminded to replace them.	This item will be followed up in the coming audit session.
		Silty surface runoff was observed at Daytank Storage Area. The Contractor was reminded to clean up the U-channel and provide sufficient sandbags for desilting.	This item will be followed up in the coming audit session.
Air Ovality	23 Jul 08	Exposed stockpiles of excavated materials were observed at Works Area B and Daytank Storage Area. To prevent dust emission, the Contractor was reminded to remove them, cover them with tarpaulin or provide water spraying daily.	The situation was observed improved/rectified in audit session 80730.
Air Quality	13 Aug 08	Adequate enclosure (i.e. three sides and top cover) was observed not provided for the cement mixing area. The Contractor was advised to provide adequate enclosure for it and well cover the unused cement with tarpaulin.	The situation was observed improved/rectified in audit session 80820.

Parameters	Date	Follow-up	
	20 Aug 08	Dried and dusty surfaces were observed around the site area. The Contractor was reminded to provide frequent watering (e.g. 2-3 times per day) to avoid dust emission.	The situation was observed improved/rectified in audit session 80827.
	10 Sep 08	Exposed stockpile of excavated material was observed near Wash-out Chamber No.2. The Contractor was advised to remove it or cover it with tarpaulin.	The situation was observed improved/rectified in audit session 80917.
	17 Sep 08	Silt and debris were observed outside the site area near Wash-out Chamber No.1 and Daytank Storage Area. The Contractor was reminded to clean it up.	The situation was observed improved/rectified in audit session 80924.
	9 Jul 08	General refuse (including discarded water bottles and cigarette box) was observed around Daytank Storage Area. The Contractor was reminded to clean it up and provide sufficient rubbish bin for this area.	The situation was observed improved/rectified in audit session 80716.
	23 Jul 08	General refuse was observed around the constructing RE's Site Office. The Contractor was reminded to clean it up.	The situation was observed improved/rectified in audit session 80730.
	30 Jul 08	Oil was observed on the ponding water at Daytank Storage Area. The Contractor was reminded to clean up the oil before discharging into public channel.	The situation was observed improved/rectified in audit session 80807.
Waste/Chemical Management	7 Aug 08	General refuse including water bottles and soft drink cans was observed around Day Tank Storage Area. The Contractor was reminded to clean it up.	The situation was observed improved/rectified in audit session 80813.
	27 Aug 08	Oil stain was observed on the floor at Barge Unloading Area. The Contractor was reminded to clean it up.	The situation was observed improved/rectified in audit session 80903.
	3 Sep 08	General refuse including water bottles and softdrink cans were observed around Daytank Storage Area. The Contractor was reminded to clean it up.	The situation was observed improved/rectified in audit session 80910.
	10 Sep 08	Oil leakage from the equipment was observed near Wash-out Chamber No.2. The Contractor was reminded to clean it up.	The situation was observed improved/rectified in audit session 80917.

Status of Environmental Licenses and Permits

5.3 Environmental licenses and permits including the Environmental Permit, Billing Account for Disposal of Construction Waste, Chemical Waste Producer, Water Discharge License and Construction Noise Permit were in place and valid during the reporting quarter. A summary 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 July to September 2008.
- 6 NON-COMPLIANCE (EXCEEDANCES) OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS (ACTION AND LIMIT LEVELS)

Summary of Exceedances

- 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 COMPLAINTS

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

8 NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

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 Barge unloading area;
 - Construction of Switch room no. 1 & Wash-out chamber no. 2;
 - Diversion of the existing DN2520 watermain;
 - Construction of Wash-out Chamber no. 1;
 - Construction of Sodium Hypocholorite Storage Compound;
 - Construction of Dechlorination Plant;
 - Construction of Day tank & Switch Room no. 2; and
 - Construction of pipe trench.
- 9.2 Key issues to be considered in the coming month include:
 - Surface runoff from the Site area due to construction works and rain;
 - Dust emission from concrete breaking, excavation and loading and unloading dusty materials;
 - 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 in the site areas;
 - Mosquito breeding due to the ponding water and stagnant water around the site areas;
 - Storage of chemicals/fuel and chemical waste/waste oil on site; 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 accumulation of stagnant water on site;
- To maintain sand bags placed along the U-channel at good condition and replace the broken sand bags;
- To prevent surface runoff getting into public area; and
- To clean up the sediment along the U-channel frequently whenever necessary.

Dust Impact

- To provide water spraying on dried site areas or materials regularly;
- To remain good site practice on handling excavated or dusty material for dust suppression (e.g. stockpiles of material shall be covered by tarpaulin); and
- To regularly check and maintain the mechanical equipments to avoid black smoke emission.

Harbour Area Treatment Scheme Stage 2A – Construction of Advance Disinfection Facilities at SCISTW Quarterly EM&A Report – July 2008 to September 2008

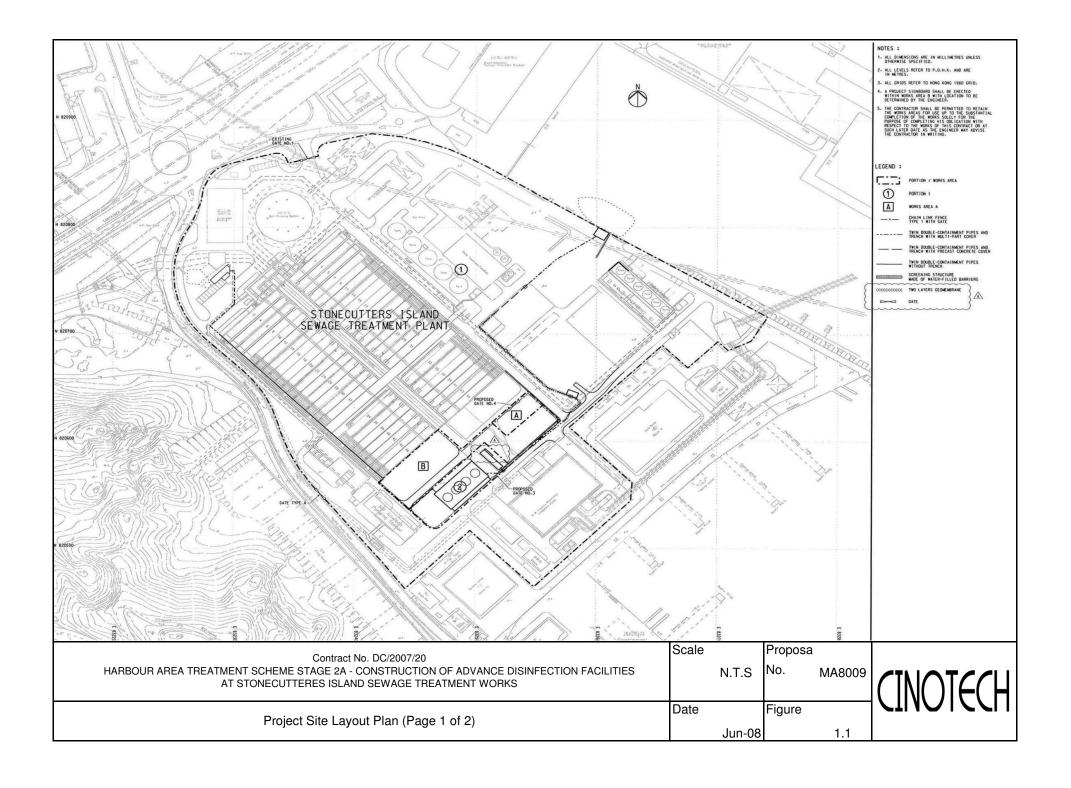
Noise Impact

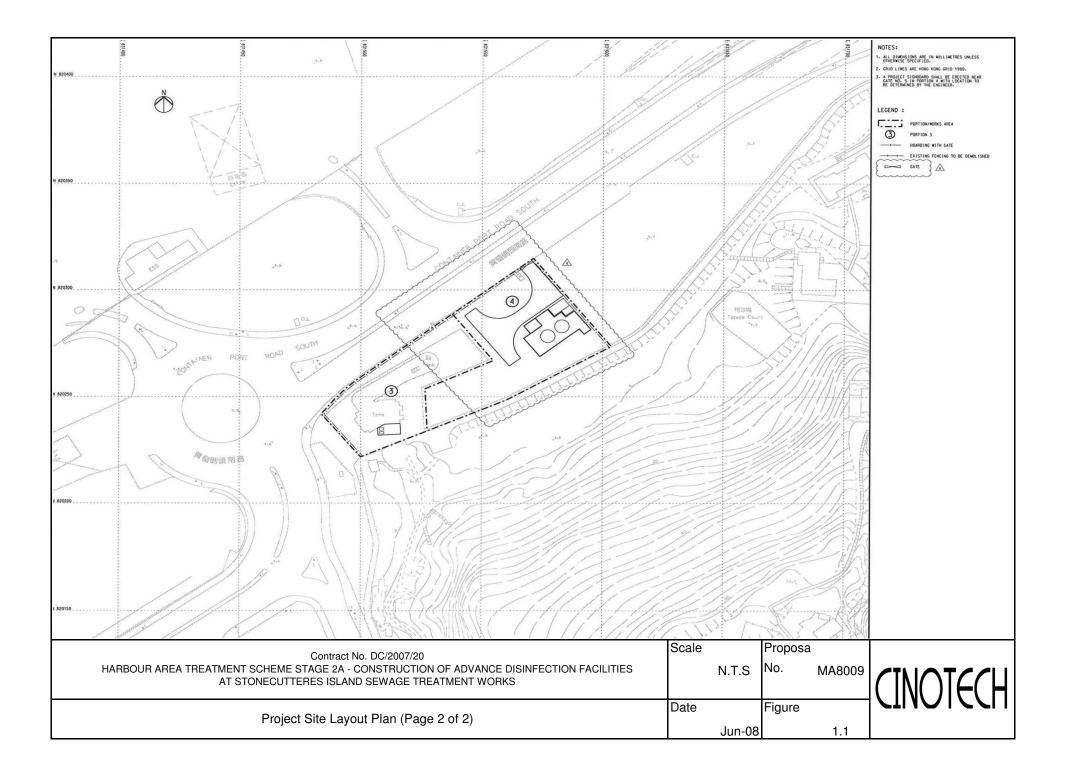
- To space out noisy equipments and position them as far away as possible from sensitive receivers;
- To provide adequate lubricant on mechanical equipments to reduce frictional noise; and
- To regularly check and maintain the mechanical equipments to avoid abnormal noise nuisance.

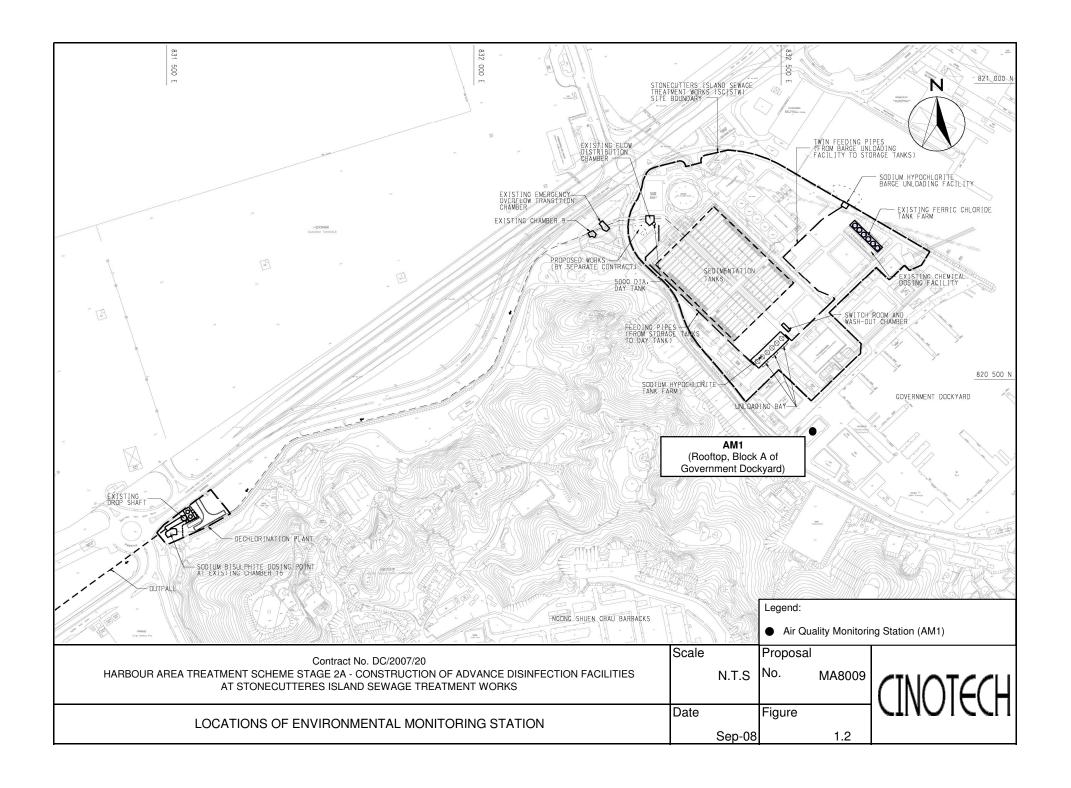
Waste / Chemical Management

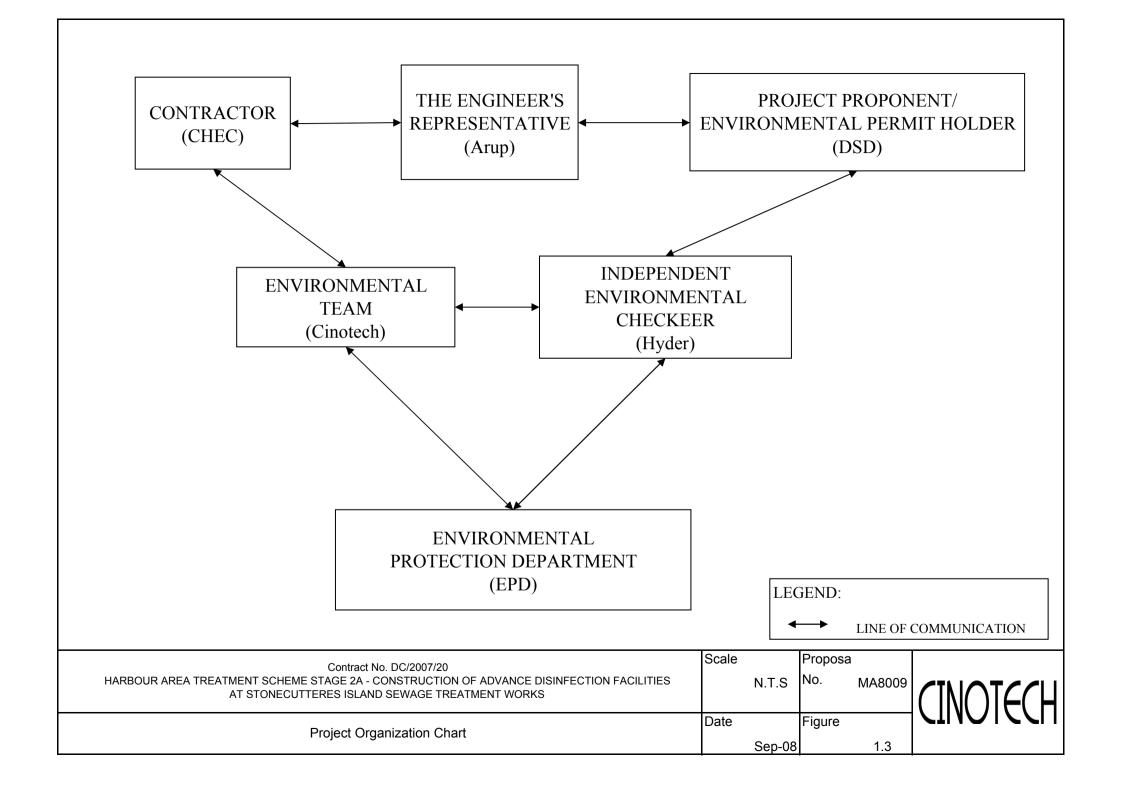
- To provide proper and sufficient rubbish bins / skips for waste collection;
- To provide proper and sufficient storage area or drip trays for oil containers on site;
- To avoid and check for any accumulation of waste materials or rubbish on site; and
- To avoid any discharge or accidental spillage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

FIGURES







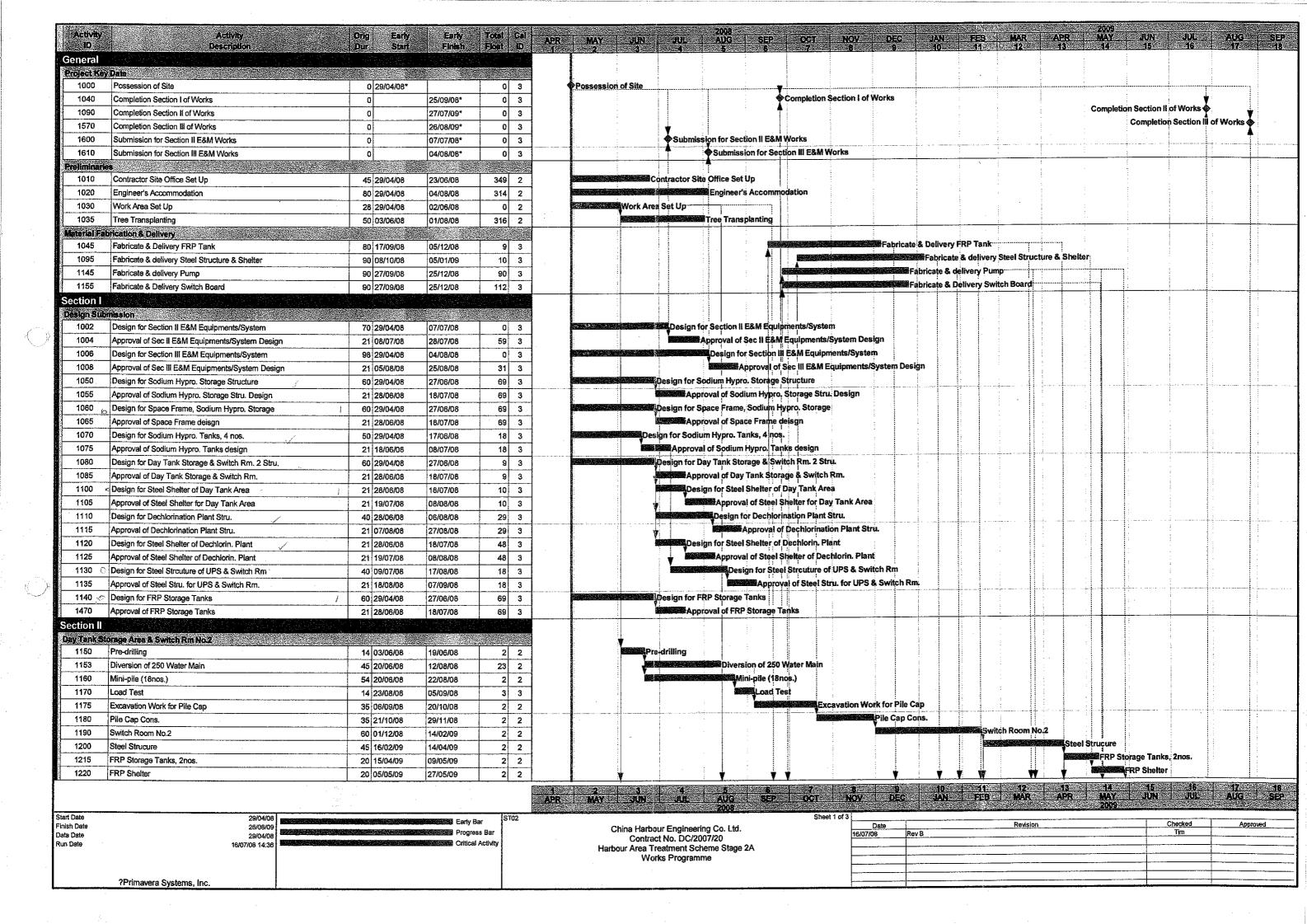


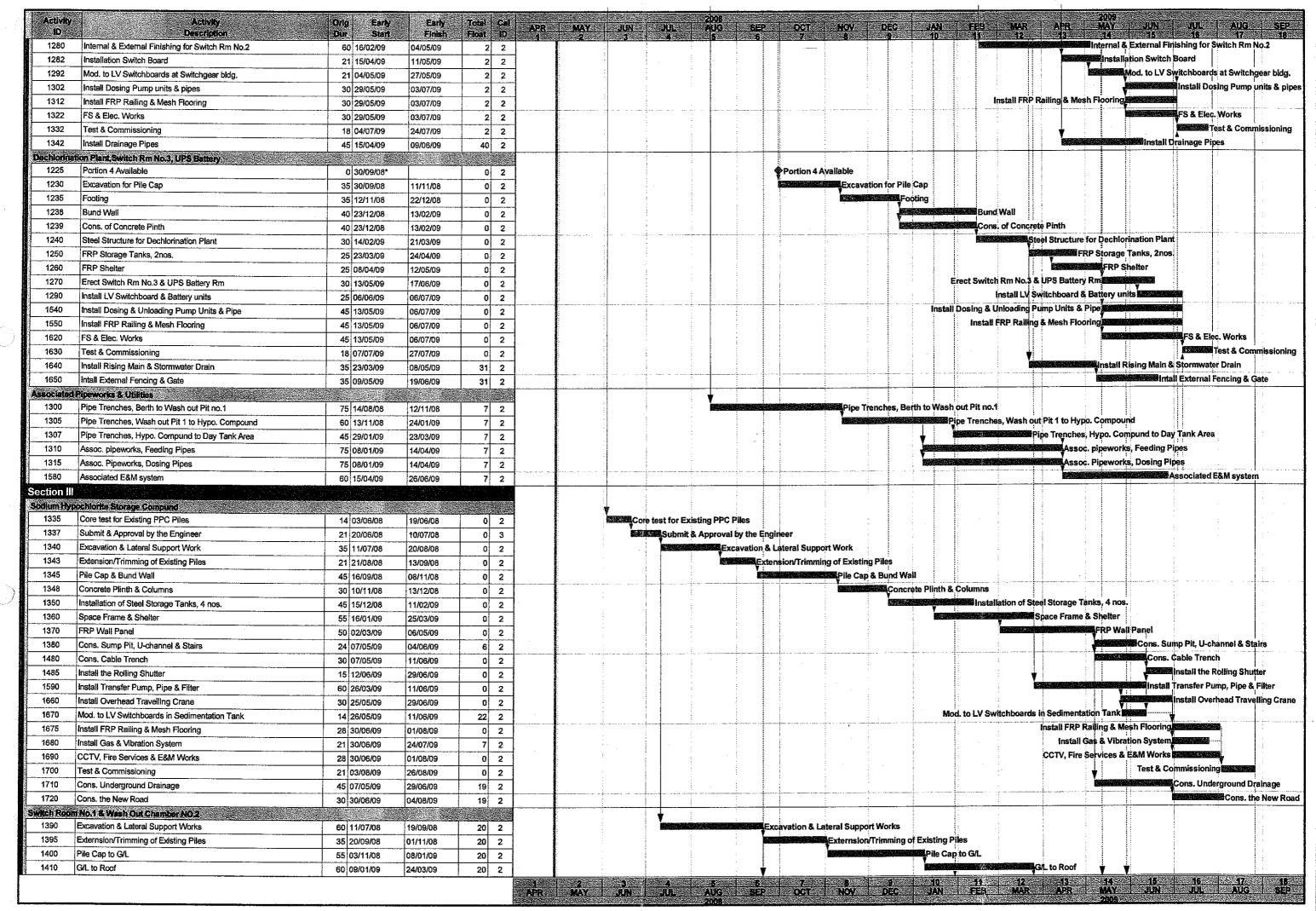
APPENDIX A CONTACT DETAILS OF THE PROJECT ORGANISATION

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	240/8//2	
		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		
		Mr. Antony WONG	Independent Environmental Checker	2911 2744		
Hyder	Independent Environmental	Ms. Karine WONG	Project Manager	2911 2707	2805 5028	
,	Checker	Ms. Selina LEUNG	Independent Environmental Checker Representative	2911 2745	333 333	

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	
	24-hour TSP	Once / 6-day	AM1 (Rooftop, Block A of Government Dockyard)

Remarks: Due to the sensitive 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 19th August 2008 and approved by EPD on 2nd 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

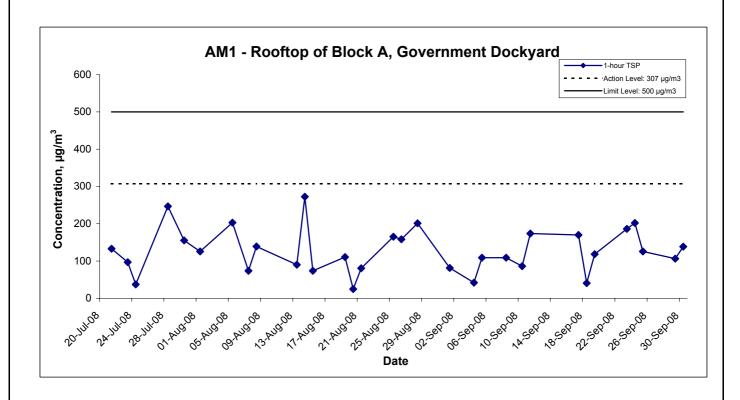
Location	Action Level, μg/m ³	Limit Level, μg/m³
AM1	307	500

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



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

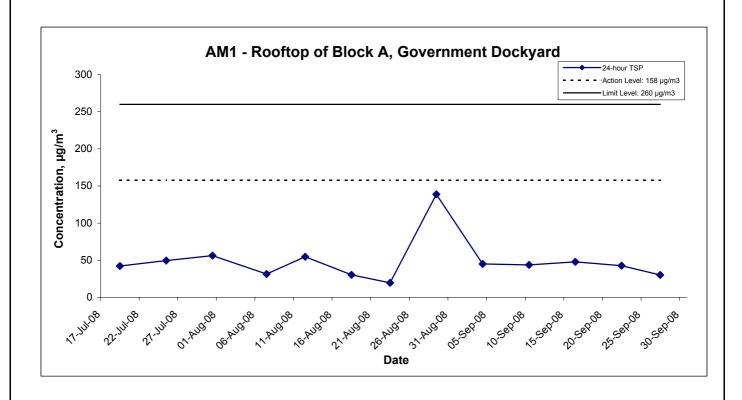
Project
No. MA8009

Date

Sep 08

Appendix
E

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 Sep 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 Agent	Im	plementa	tion Sta	ges*	Relevant Legislation and Guidelines
			Agent	Des	С	О	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 _i	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.							
\$4.48			Contractor		\checkmark			EIAO-TM and Noise
	Use of quiet PME	the construction						Control Ordinance
34.30		period						and Guidelines EIAO-TM and Noise
	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						
S4.48 – S4.50	• 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	Implementation Stages*			Relevant Legislation	
		Agent			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		√			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		√			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		V			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		V			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 Agent	Im	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	Location/Timing	Implementation	Im	plementa	tion Sta _s	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	Work sites / During	Contractor		√			Waste Disposal
	Recommendations for good site practices during the the construction construction activities include: period							Ordinance (Cap.54)
								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	Ref Environmental Protection Measures/Mitigation Measures Location/Timing Agent		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 	Work sites / During planning & design stage, and construction stage	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	Location/Timing	Implementation	Im	plementa	tion Sta	ges*	Relevant Legislation
			Agent	Des	C	О	Dec	
	Construction and Demolition Material	Work sites / During	Contractor	√	V			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.							

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

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

APPENDIX G SUMMARY OF ENVIRONMENTAL LICENCES AND PERMITS

Quarterly EM&A Report

Appendix G - Summary of Environmental Licensing and Permit Status

Permit /	Valid	Period	— Details									
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								
Billing Account for Disposal of Construction Waste												
7007138	13/05/08	N/A	Disposal of Construction waste.	Valid								
		Chemica	l Waste Producer Number	1								
WPN: 5213-269- C2397-22	WPN: 5213-269- C2397-22 04/09/08 N/A Disposal of Chemical Waste including lubricating oil, spent batteries and etc.											
		Waste \	Water Discharge License									
EP760/269/0133011 14/07		31/07/13	Discharge of industrial trade effluent and all other wastewater after solid removal 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.	Valid								
	•	Constru	ction Noise Permit (CNP)									
PP-RW0010-08 20/05/08 19/09/08 Kowloon. Day and hours for the		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.	Replaced									
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.	Valid								

APPENDIX H COMPLAINT LOG

APPENDIX H – Complaint Log

Reporting Period: July to September 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 September 2008.

APPENDIX I SUMMARY OF EXCEEDANCES

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)