KINGSFORD ENVIRONMENTAL (H.K.) LTD. Consultancy Engineering & Contracting



CONTRACT NO. DE/2005/03

SUPPLY AND INSTALLATION OF ELECTRICAL AND MECHANICAL EQUIPMENT FOR EXPANSION OF SHEK WU HUI SEWAGE TREATMENT WORKS

ENVIRONMENTAL MONITORING AND AUDIT

MONTHLY EM&A REPORT NO. 8

JANUARY 2007

for

The Biwater Man Lee Limited

Submitted by

Kingsford Environmental (H.K.) Ltd.

CONTROLLED DOCUMENT

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EXECUTIVE SUMMARY

This is the eighth monthly Environmental Monitoring and Audit (EM&A) Report for the Drainage Services Department Contract No. DE/2005/03 entitled "Supply and Installation of Electrical and Mechanical Equipment for Expansion of Shek Wu Hui Sewage Treatment Works". This report contains the results of the environmental monitoring for verification of mitigation implementation conducted by the Environmental Team (ET) of the E&M Contractor as required in the contract.

For the environmental monitoring activities, Action and Limit (A/L) Levels are defined levels of impact recorded which represent levels at which a prescribed response is required. Action Limit is an indication of a deteriorating ambient environment for which appropriate remedial actions are likely to be necessary to prevent environmental quality from falling outside the Limit Levels. If these are exceeded, construction works should not be preceded without appropriate remedial action, including critical review of the methods. Baseline monitoring was conducted by the Civil Contractor in December 2005 (Report No. 01284R0012).

The work activities this month consisted of testing and commissioning of E&M equipment at pH Control System. Note that the pH Control System was handed over to DSD for operation on 8 January 2007.

Site inspections by an Environmental Team were carried out on 2, 8, 9, 16, 24 and 29 of January 2007 with the representatives of the Engineer.

No deficiency was found during the site inspections for January 2007. Work activities and mitigation measures were in compliance with the environmental protection regulations, contract requirement and environmental permit.

The monthly EM&A meeting was held on 9 January 2007 with all of the parties (DSD, Civil and E&M contractors, ETs, and the IEC) involved.

There was no complaint received or notification of summons or successful prosecution during January 2007.

There was no reporting change during the reporting month.

The planned activities for February – April 2007 as regards E&M equipment are mainly to carry out 1) outstanding works for pH Control System and 2) modification work of scrapper for density current baffles at Final Sedimentation Tank Nos. 5, 7 and 8.

APPROVAL & DISTRIBUTION SHEET

DOCUMENT DATE: 31 January 2007

APPROVAL

Certified by :	ET Leader		
Signature:	Mr. Stahley Lau	Date:	31 January 07
DISTRIBUTIC	DN LIST		
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Ţitle	Name	No. of Copies
Engineer's Representative (Drainage Services Department)	Mr. P.W. Lam/ Mr. K.K. Cheung	8
E&M Contractor (The Biwater Man Lee Limited)	Mr. W. S. Lui	1
Independent Environmental Checker (CH2M HILL Hong Kong Limited)	Mr. David Yeung	1

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1 Introduction

This is the eighth monthly Environmental Monitoring and Audit (EM&A) Report for the Drainage Services Department Contract No. DE/2005/03 entitled "Supply and Installation of Electrical and Mechanical Equipment for Expansion of Shek Wu Hui Sewage Treatment Works". The report was prepared by the Environmental Team, Kingsford Environmental (H.K.) Ltd., of the E&M Contractor, Biwater Man Lee Limited. This report is submitted to the Client, the Drainage Services Department, and her Independent Environmental Checker, CH2M HILL Hong Kong Limited, for the project. In addition, this report is to be submitted to EPD in accordance with the requirement of the environmental permit (EP218-2005) and EM&A manual of the project.

This report only presents the results of the environmental auditing of the project activities regarding the E&M equipment installation conducted in the month of January 2007. The auditing works include regular site inspections for verification of the mitigation measures implementation as recommended in the EM&A Manual and as detailed in the Project Profile for the project.

The contact information for the key personnel is shown in Appendix 1.

The job nature of the E&M contractor is mainly for installation of E&M equipment, all hand-held's breakers, bulldozer, concrete lorry mixer, dump truck and hand-held's poker, vibratory would not be used so that the impact from noise and dust would be low. Also, the distance to the nearest sensitive receivers is large. Therefore, the potential environmental impact imposed to the sensitive receivers would be low. Routine environmental monitoring would be considered when deficiency is found or complaint is received.

The sensitive receivers, locations of monitoring and control stations, action and limited levels and event/action plan are shown in Appendix 2.

2 Work Activities during the Month

The work activities this month consisted of testing and commissioning of E&M equipment at pH Control System. Note that the pH Control System was handed over to DSD for operation on 8 January 2007.

The activities and dates of occurrence of each activity are summarized below in Table 1. The Construction Programme is shown in Appendix 3.

Table 1:Work Activities for January 2007

pH Control System	
Testing and Commissioning of E&M equipment	27 Nov '06 – 8 Jan '07

3 Status of Environmental Protection

Air Quality

Appropriate mitigation measures for the activities are in place. Plastic covers with stakes/weights are readily available and used for covering of exposed material for control of dust. Water spray is available for dust suppression, if necessary.

Water Quality

The plastic covers for exposed soil, etc. are available for minimization of silt in the run-off water during rainstorms, if necessary. Note that wastewater generated from the off-site project office was collected in a storage tank and tanker-away regularly by a licensed collector.

Anti-mosquito preventive measures, e.g. regular removal of stagnant water (if possible) and/or spraying larvicide (if necessary) at any site area, are taken for mosquito control and prevention, particularly for control of Dengue Fever and Japanese Encephalitis diseases.

<u>Noise</u>

Plants with low noise emittance are preferred and are operated/maintained to reduce noise. In this reporting month, work was carried out during normal working hours (7am - 7pm Monday to Saturday) or otherwise specified in the contract. In the event of a schedule change such that construction work would be performed during the restricted hours (11pm - 7am and during general public holidays including Sundays), a Construction Noise Permit would be required.

Waste / Chemical Management

The construction waste materials are preferred to be removed promptly from the site. Recyclable hard inert C&D materials should be taken to a public filling area (Tuen Mun Area 38) whereas the non-inert C&D waste should be disposed of to NENT landfill at Ta Kwu Ling or other disposal site approved by the control authority. Note that the inert C&D materials should be reduced, reused and recycled if possible, before disposal. Any substance identified as chemical waste would be disposed of properly by a licensed collector. A trip ticket system for the disposal of C&D waste should be conducted as required by the Waste Management Plan. Rubbish bins are provided on-site for collecting general refuses as necessary. The general refuse would be removed regularly and disposed to landfills by a licensed collector. A proper record of each waste disposal, including the new bar-coded disposal delivery form, would be kept to verify proper handling and disposal.

The status of permits and licenses is summarized in Table 2.

Table 2: Status of Permits and Licenses

Description	Permit No.	Valid Period		Ref.	Status	
		From	То			
Environmental Permit	EP-218/2005	16/06/05	End of Project	PS1.39*	Granted	

* Particular Specification of Contract No. DE/2005/03

The implementation status of mitigation measures from EM&A Manual is attached in Appendix 4.

4 Site Inspections

For this month, site inspections by an ET technician were carried out on 2, 8, 9, 16, 24 and 29 of January 2007 with the representatives of the Engineer.

The site locations inspected were marked on a site layout plan and the location code was recorded on the checklist. The site layout plan is shown in Appendix 5.

The work activities this month consisted of testing and commissioning of E&M equipment at pH Control System. Note that the pH Control System was handed over to DSD for operation on 8 January 2007.

No deficiency was found during this month. Inspection checklists are annexed in Appendix 5. Whereas all of the environmental aspects were inspected in the work areas, the most applicable descriptions are addressed below.

<u>Air Quality</u>

No dusty material was found from the site areas or activities this month.

Water Quality

No accumulation of rainwater was observed in the site area. Note that the regular inspections and preventive measures for the mosquitoes are being conducted and recorded at least weekly by the Contractor.

<u>Noise</u>

During this month, the work activities and equipment used did not generate significant noise. In this reporting month, no work was carried out during general public holidays including Sundays.

Waste / Chemical Management

Refuse bins and waste storage/sorting area were provided for the collection of general refuse and sorting the C&D materials.

No packaging waste or construction waste was disposed of to landfill by the licensed waste collector this month.

The type and quantity of waste for final disposal during January 2007 is shown in Table 3. Note that a record of each disposal is being kept.

Table 3:	Type and Quantity of Waste Disposed of in January 200'	7

Types of Waste	Quantity
Inert C&D Material	Nil
Non-inert C&D Waste	Nil
Chemical Waste	Nil
General Refuse*	1320L

* Included the site office

5 Summary of Deficiencies and Remedial Actions

There were no deficiencies noted from the site inspections of January 2007.

6 Summary of Complaints and Remedial Actions

No complaints were received in January 2007. In the event of complaints, the procedure for handling of the complaints is detailed in the EM&A Manual.

7 Summary of Summons and Prosecutions

No notification of summons and no prosecutions occurred in January 2007.

8 Monthly Environmental Auditing for the Coming Months

The planned activities for the coming three months (February – April 2007) as regards E&M equipment are to carry out outstanding works for the following system/area:-

- pH control System
- Final Sedimentation Tank Nos. 5, 7 and 8

The anticipated environmental issues for February - April 2007 will be as follows:-

- pH control System
 - The anticipated environmental issues will be related to:-
 - the waste disposal from E&M equipment installation.
 - the stagnant water, as testing/ commissioning of equipment/system will be involved.
 - the chemical handling (if any) during the T&C period.
- Final Sedimentation Tank Nos. 5, 7 and 8
 - The anticipated environmental issues will be related to the waste disposal from the E&M equipment installation.

9 Conclusions and Comments

The required weekly site inspections have been conducted. No deficiency was noted.

Appendix 1

Contact Information of Key Environmental Personnel

Name	Title	Telephone	Fax
Mr. P. W. Lam (DSD)	Engineer's Representative	2594-7305	2827-8532
Mr. K. K. Cheung (DSD)	Engineer's Representative	2594-7338	2827-8532
Mr. W. S. Lui (BML)	Site Agent	2671-2350	2671-2351
Mr. K. H. Lau (BML)	Deputy Site Agent	2671-2350	2671-2351
Mr. S. M. Ho (BML)	Site Waste Manager/ Co-ordinator	2671-2350	2671-2351
Mr. Stanley Lau (KEL)	ET Leader	2612-2817	2614-7012
Ms. Angela Lau (KEL)	ET Site Inspector	2612-2817	2614-7012
Mr. David Yeung (CH2M)	The Independent Environmental Checker	2507-2203	2507-2293

Contact Information for Key Personnel

Appendix 2

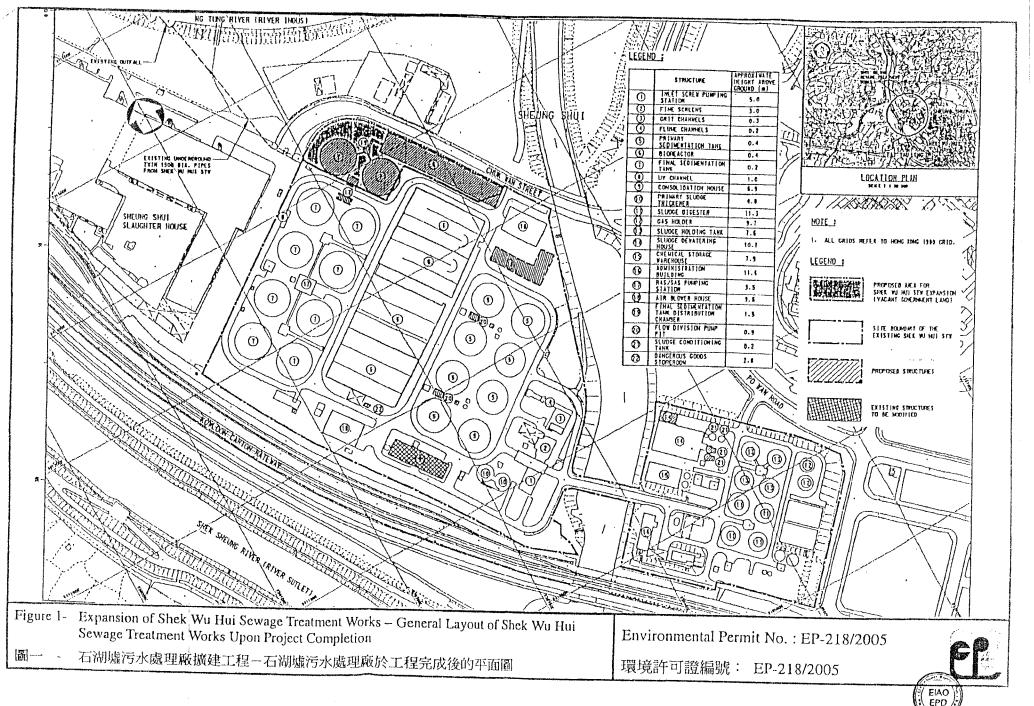
Sensitive Receivers,

Location of Monitoring and Control Station,

Action and Limited Levels

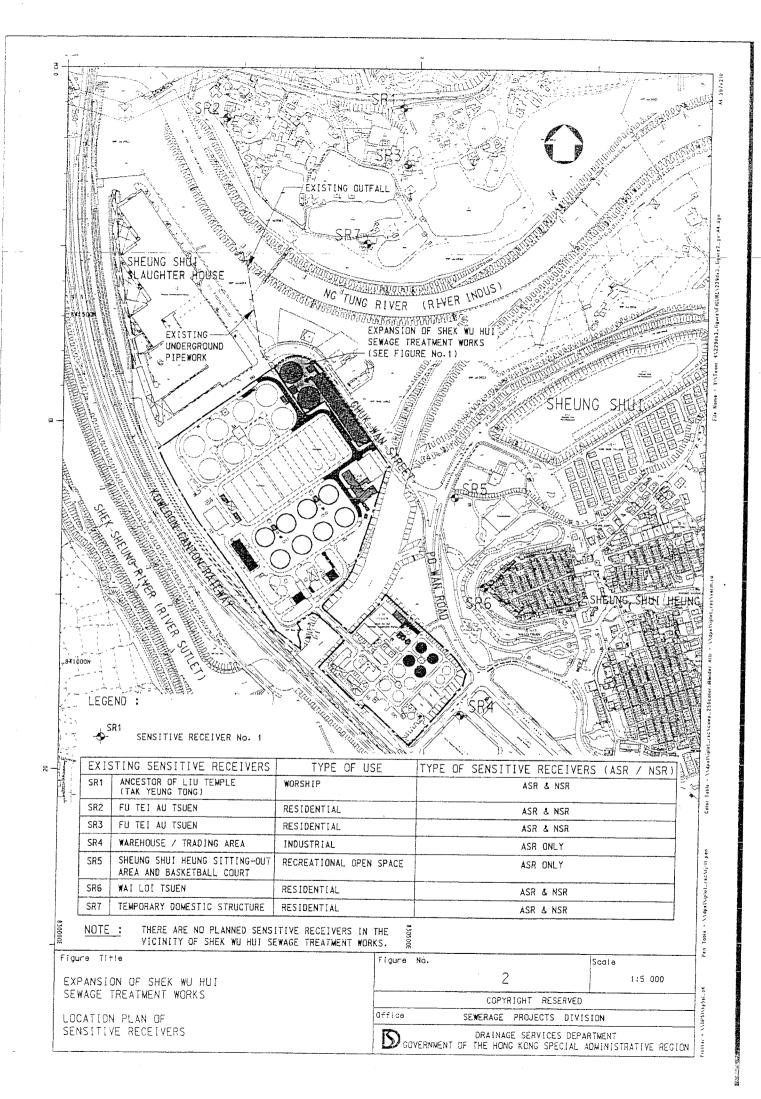
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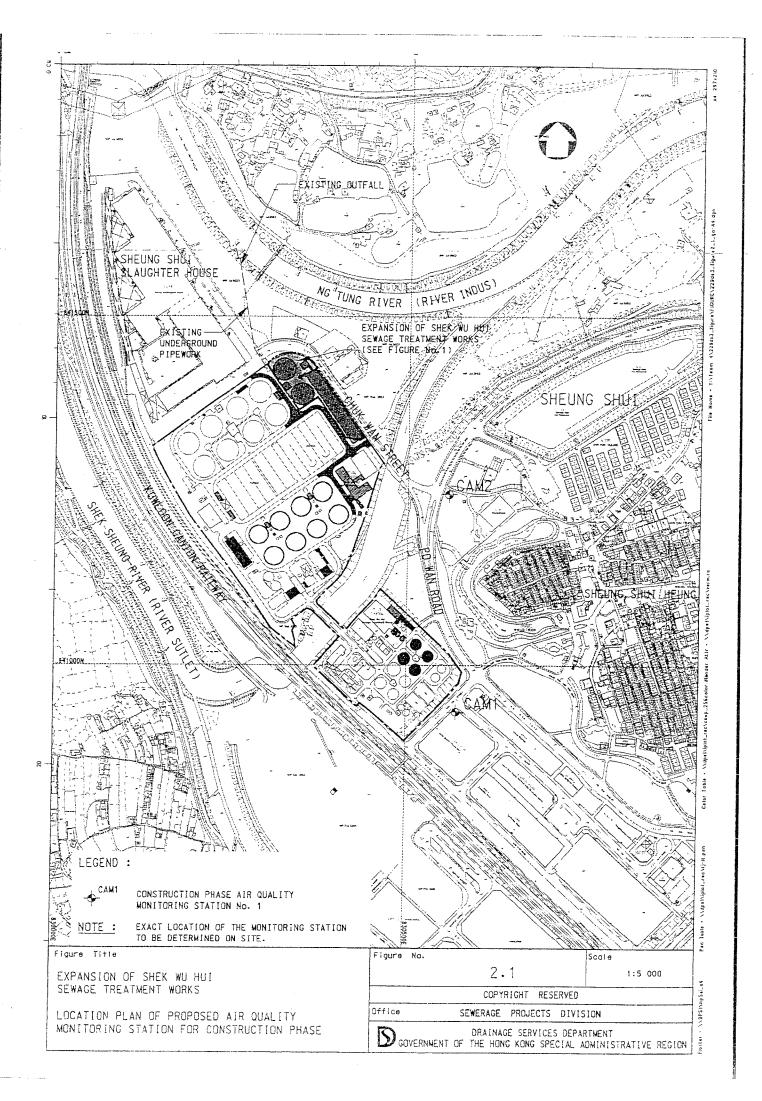
Event/Action Plan



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olfactory senses to detect any odour.

- 2.6.9 The observer should bring along a log book to record the findings. The log book should be kept in the plant office where it can be inspected when necessary. The findings should include the following:
 - the prevailing weather condition;
 - the wind direction;
 - location where odour is spotted;
 - possible source of odour;
 - perceived intensity of the odour; and
 - duration of odour.
- 2.6.10 The perceived intensity is to be divided into 5 levels which are ranked in the descending order as follows:
 - Extreme
 - Strong
 - Moderate
 - Slight
 - Not detectable

2.7 <u>Compliance Assessment</u>

→ 2.7.1 Action and Limit (A/L) levels that provide an appropriate framework for the interpretation of monitoring results have to be agreed between ET, IEC, EPD and the Engineer before commencement of the air quality monitoring. The air quality monitoring data shall be checked against the agreed A/L levels. Recommended A/L levels are listed in Table 2.5.

Table 2.5 F	roposed Action and Limit Levels for Impact Monitoring
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Damager	//>	
Parameter	Action Level ⁽¹⁾	Limit Level
TSP	• $BL \le 200$ g m ⁻³ , $AL = (BL * 1.3 + LL)/2$	
(24 hour average)	• $BL > 200 \text{ g m}^{-3}$, $AL = LL$	260 g m ⁻³
TSP (1 hour average)	• BL ≤ 384 g m ⁻³ , AL = (BL * 1.3 + LL)/2 • BL > 384 g m ⁻³ , AL = LL	500 g m ⁻³
H ₂ S (at ASRs only)	 BL ≤ 1.92 ppb, AL = (BL * 1.3 + LL)/2 BL > 1.92 ppb, AL = LL 	2.5 ppb
Incidence of odour complaints	Any incidence of odour complaint received through the Odour Complaint Register	Two or more complaints through the Odour Complaint Register within three months

(1) BL = Baseline level, AL = Action level, LL = Limit level.

Event and Action Plan (EAP) for Air Quality

2.7.2 The EAP is based on the prescription of procedures and actions associated with the measurement of certain defined levels of air pollution recorded by the environmental monitoring process and the agreed A/L levels. In case TSP A/L level exceedances occur, the ET, the IEC, the Engineer and the Contractor shall observe the relevant actions of the respective EAP listed in Tables 2.6 whereas relevant sections in DSD shall be responsible for the implementation of the EAP as listed in Table 2.7 in the event of odour exceedance/complaint for construction and operational phase respectively.

Expansion of Shek Wu Hui Sewage Treatment Works EM&A Manual

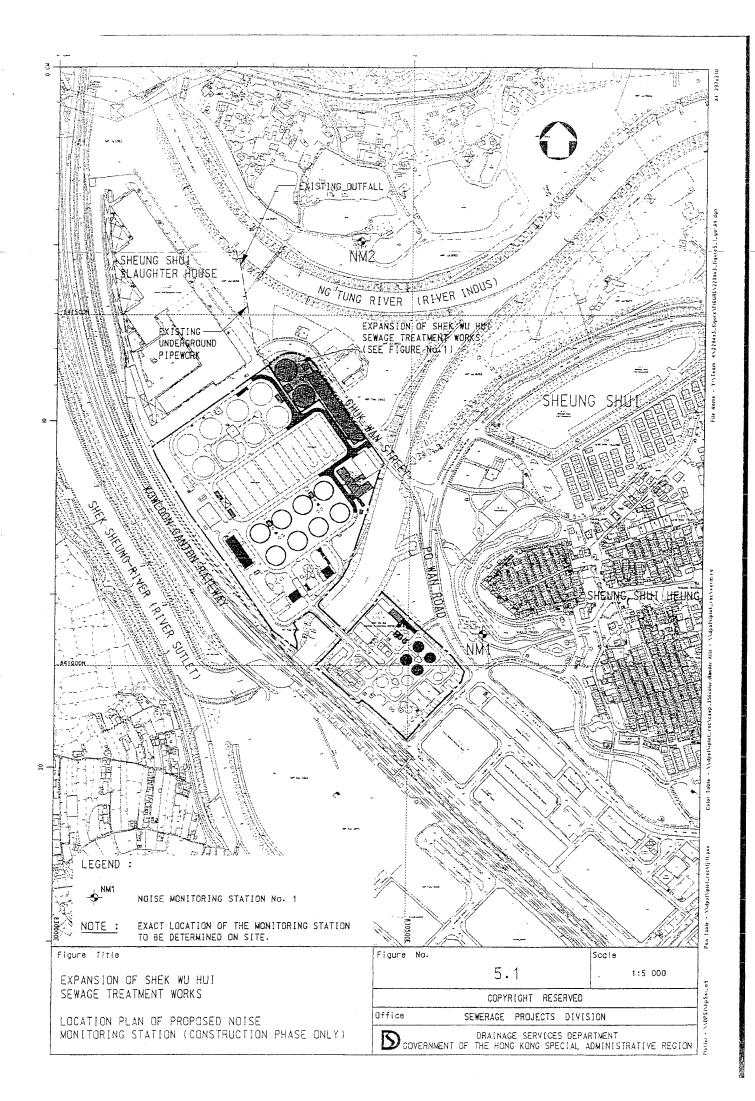
Drainage Services Department

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Table 2.6 Event/Action Plan for Air Quality Monitoring (Construction Phase)

EVENT		ACTION		
	ET	LEC	ER	CONTRACTOR
ACTION LEVEL	· · · · ·			
 Exceedance for one sample 	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC and ER; Repeat measurement to confirm finding. 	 Check monitoring data submitted by ET; Check Contractor's working method. 	1. Notify Contractor.	 Rectify any unacceptable practice; Amend working methods if appropriate.
 Exceedance for two or more consecutive samples LIMIT LEVEL 	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC and ER; Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and ER; If exceedance stops, cease additional monitoring. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ET on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. 	 Confirm receipt of notification of exceedance in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Submit proposals for remedial actions to 1E within three working days of notification; Implement the agreed proposals; Amend proposal if appropriate.
LIMITLEVEL			T	
 Exceedance for one sample 	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform Contractor, IEC, ER, and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures. 	 Confirm receipt of notification of exceedance in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Take inumediate action to avoid furthe exceedance; Submit/proposals for remedial actions to IE within three working days of notification; Implement the agreed proposals; Amend proposal if appropriate.
 Exceedance for two or more consecutive samples 	 Notify IEC, ER, Contractor and EPD; Identify source, investigate the causes of exceedance and propose remedial measures; Repeat measurement to confirm findings; Increase numitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of exceedance in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	 Take immediate action to avoid furth exceedance; Submit proposals for remedial actions to IF within three working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not und control; Stop the relevant portion of works as determine by the ER until the exceedance is abated.

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Impact Monitoring for Construction Noise 5.6

- 5.6.1 Noise monitoring shall be carried out at all designated monitoring stations. The monitoring frequency shall depend on the scale of the construction activities. The following is an initial guide on the regular monitoring frequency for each station on a weekly basis when noise generating activities are underway: .
 - one set of measurements between 0700 and 1900 hours on normal weekdays.
- 5.6.2 If construction works are extended to include works during the hours of 1900 0700. Applicable permits under NCO shall be obtained by the Contractor.
- 5.6.3 In case of non-compliance with the construction noise criteria, more frequent monitoring, as specified in the Action Plan in Table 5.3, shall be carried out. This additional monitoring shall be continued until the recorded noise levels are rectified or proved to be irrelevant to the construction activities.
- 5.6.4 Before commencement of impact monitoring, the ET Leader shall inform IEC of the impact monitoring programme such that the IEC can conduct an on-site audit to ensure the accuracy of

Event and Action Plan (EAP) for Construction Noise ♦ 5.7

5.7.1 The Action and Limit levels for construction noise are defined in Table 5.2. Shall non-compliance of the criteria occur, action in accordance with the Action Plan in Table 5.3 shall be implemented.

Time Design Dennit Levels for Construction Noise				
Time Period	Action Level	Limit Level		
0700 – 1900 hours	When one documented	75 dB(A)		
on normal weekdays	complaint is received	$/ J \operatorname{ub}(A)$		

complaint is received

Table 5.2 Action and Limit Loude for

Expansion of Shek Wu Hui Sewage Treatment Works EM&A Manual

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Table 5.3 Event/Action Plan for Construction Noise

EVENT				
	ET	ACTIC IEC	· · · · · · · · · · · · · · · · · · ·	
Action Level	 Notify IEC and ER; Carry out investigation; Report the results of investigation to the IEC, ER and Contractor; Discuss with the Contractor and formulate remedial measures; Increase monitoring frequency to check mitigation effectiveness. 	 Review the analysed results submitted by the ET; Review the proposed remedial measures by the Contractor and advise the ER accordingly; Supervise the implementation of remedial measures. 	 ER Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures are properly implemented. 	 CONTRACTOR 1. Submit noise mitigation proposals to IEC; 2. Implement noise mitigation proposals.
Limit Level	 Identify source; Inform IEC, ER, EPD and Contractor; Repeat measurements to confirm findings; Increase monitoring frequency to check mitigation effectiveness; Carry out analysis of Contractor's working procedures to determine - possible mitigation to be implemented; Inform IEC, ER and EPD the causes and actions taken for the exceedances; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated.

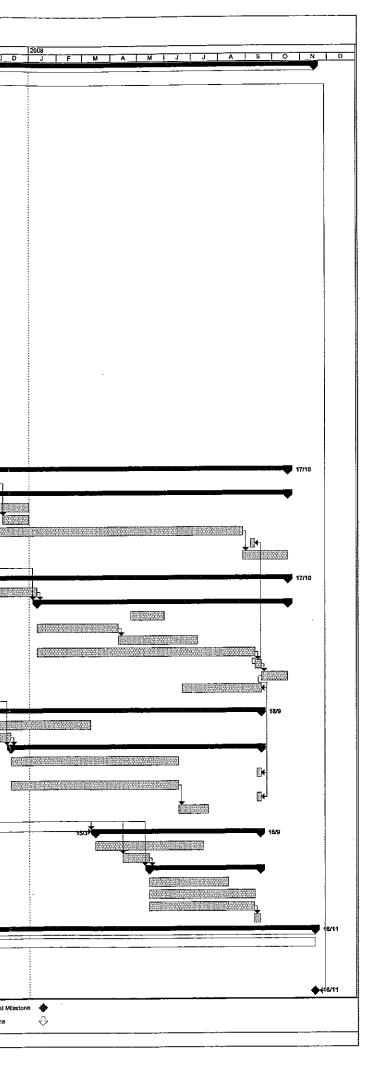
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Appendix 3

Construction Programme

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Initial Draft Final Section II of E I, TaC of I I, TaC of I I, TaC of I I, TaC of I Original C Section II of I Delivery of Coving of C I, TaC of I Delivery of I, TaC of I, TaC of I, TaC of I, TaC of I, TaC of I, TaC of Section V of I Delivery of Installatio TaC of I Confirmation of Section V of I Delivery of Installatio TaC of I Section VI of Float Tim After Poo Delivery After Poo Inst Inst Confirmation Section VII of Float Tim Delivery After Poo Inst Inst Confirmation Section VII of Float Tim Delivery After Poo Inst Inst Confirmation Section VII of Float Tim Delivery After Poo Inst Inst Inst Inst Inst Inst Inst Inst	Process Design	113 days Tue 14/2/06	-			1			
Draft Final Section II of F I, T&C of I I, T&C of I I, T&C of I Original C Section III of J Delivery of Celviery of Installatio Testing & Original C Section IV of Delivery of I, T&C of I, T&C of I, T&C of I, T&C of Section V of I Delivery of Installatio T&C of n Confirmation of Section VI of Float Tim After Poo Delivery Installatio T&C of n Confirmation of Section VI of I Delivery Installatio T&C of n Confirmation of Section VI of Float Tim After Poo Delivery Tessi Confirmation Section VII of Float Tim Delivery After Poo Instal Confirmation Section VII of Float Tim Delivery After Poo Inst Confirmation Section VII of Float Tim Delivery After Poo Inst Corfirmation Section VII of Float Tim Delivery After Poo Inst Corfirmation Section VII of Float Tim Delivery After Poo Inst Corfirmation Section IX of Float Tir Delivery After Poo	Preliminary Process Design	45 days Tue 14/2/06	ž						
Final Section II of E I, T&C of I I, T&C of I I, T&C of I I, T&C of I I, T&C of I Section III of J Delivery of Continue II Section IV of Delivery of I, T&C of I, T&C of I, T&C of I, T&C of I, T&C of Section V of J Delivery of Installatio T&C of I Continuation of Section V of Float Tim After Poo Delivery of Installatio T&C of I Continuation of Section VI of Float Tim After Poo Delivery After Poo Section VII of Float Tim Open Installatio T&C T&C I, T&C I, T Confirmation Section VII of Float Tim Delivery After Poo Float Tim Delivery After Po Float Tim Delivery After Po I, T Confirmation Section VII of Float Tim Delivery After Po I I, T Confirmation Section VII of Float Tim	Initial Laboratory Analysis works for process design	7 days Mon 24/4/06							
Section II of E I, T&C of I I, T&C of I I, T&C of I I, T&C of I Section III of I Delivery o civil works Installatio Testing & Original C Section IV of I Delivery o I, T&C of I, T&C of I, T&C of I, T&C of I, T&C of I, T&C of I, T&C of Section IV of I Section V of I Delivery o Installatio T&C of M Confirmation O Section IV of Float Tim After Pen Delivery I, T&C Confirmation Section VI of Float Tim After Pen I, T&C Delivery After Pen I, T&C Confirmation Section VI of Float Tim After Pen I, T&C Confirmation Section VI of Float Tim After Pen I, T&C Confirmation Section VI of Float Tim Delivery After Pen Inst Confirmation Section VI of Float Tim Delivery After Pen Inst Confirmation Section VI of Float Tim Delivery After Pen I, T Confirmation Section VI of Float Tim Delivery After Pen I, T I, T	Draft Process Design with Different Scenarios	1 day Mon 24/4/06							
I, T&C of I I, T&C of I I, T&C of I I, T&C of I Section III of I Delivery of Section IV of I Delivery of I, T&C of Section V of I Delivery of Section V of I Section V of I Delivery of Section V of I Section V of I Section V of I Float Tim After Pon Delivery I, T&C Confirmation of Section VI of Float Tim After Pon Delivery I, T&C Confirmation of Section VI of Float Tim After Pon Delivery After Pon Confirmation of Section VI of Float Tim After Pon Delivery After Pon Section VI of Float Tim Delivery After Pon Inst	Finalize the process design with the selected scenarios	43 days Tue 25/4/06	1			\ <u></u>			
i, T&C off i, T&C off Criginal C Section II of J Delivery o civil works Installatio Testing & Original C Section V of Delivery o i, T&C of i, T&C of i, T&C of i, T&C of i, T&C of Section V of J Delivery o Installatio T&C of M Confirmation o Section VI of Float Tim After Por Delivery Delivery o Installatio T&C of M Confirmation o Section VI of Float Tim After Por Delivery Delivery Confirmation o Section VI of Float Tim After Por Delivery After Por Tess Confirmation of Section VI of Float Tim Section VI of Float Tim Confirmation of Section VI of Float Tim Delivery After Por Inst Confirmation of Section VI of Float Tim Delivery After Por Inst Confirmation II of Float Tim Delivery After Por Inst	ion II of E&N Works	110 days Sun 18/6/06	-		18/67		1 6110		
I, T&C off Original C Section III of J Delivery o civil work installatio Testing & Original C Section IV of Delivery o I, T&C off I, T&C off Section V of J Delivery o I, T&C off Section V of J Delivery o Installatio T&C off Section V of J Delivery o Installatio T&C off Float Tim After Por Delivery Confirmation Section VI of Float Tim After Por Delivery Test I, T& Confirmation Section VI of Float Tim Delivery Test I, T& Confirmation Section VI of Float Tim Delivery After Po Inst Confirmation Section VI of Float Tim Delivery After Po Inst	I, T&C of Density Current Baffles for first existing FST	46 days Mon 19/6/06	:			8000000			
Original C Section III of J Delivery of Civil works Installatio Testing & Original C Section IV of Delivery of I, T&C of I, T&C of I, T&C of Section V of J Delivery of Installatio T&C of m Confirmation of Section VI of Section VI of Float Tim After Por Delivery Confirmation of Section VI of Float Tim After Por Delivery Test Inst Inst Onfirmation of Float Tim Delivery Test Inst Confirmation of Float Tim Delivery After Por Inst Confirmation of Float Tim Delivery After Por Inst Confirmation Section VI of Float Tim Delivery After Por Inst Confirmation Section VI of Float Tim Delivery After Por Inst Confirmation IX of Float Tim Delivery After Por Inst	t, T&C of Density Current Baffles for second existing FST	21 days Wed 16/8/00							
Section III of I Delivery of Crivit works Installatio Testing & Original C Section V of Delivery of I, T&C of I, T&C of I, T&C of Section V of I Delivery of Installatio T&C of Section V of I Delivery of Installatio T&C of Section V of I Float Tim After Poo Delivery Confirmation Section VI of Float Tim After Poo Delivery Test Installatio T&C Section VI of Float Tim After Poo Delivery Test Installatio Float Tim After Poo Delivery After Poo Inst Confirmation Section VII of Float Tim Delivery After Poo Inst Confirmation Section VII of Float Tim Delivery After Poo Inst Confirmation Section VII of Float Tim Delivery After Poo Inst Corfirmation Section VII of Float Tim Delivery After Poo Float Tim Delivery After Poo Inst Corfirmation Section VII of Float Tim Delivery After Poo Float Tim Delivery After Poo Float Tim Delivery After Poo	I, T&C of Density Current Baffles for thrid existing FST	22 days Fri 15/9/06 0 days Sun 18/6/06	-			▲ 18/6			
Delivery o civil works Installatio Testing & Original C Section IV of Delivery o I, T&C of I, T&C of I, T&C of Section V of I Delivery o Installatio T&C of n Confirmation o Section VI of Float Tim After Poo Section VI of Float Tim After Poo Delivery After Poo Section VI of Float Tim After Poo Delivery After Poo Delivery After Poo Instal Confirmation Section VI of Float Tim Delivery After Poo Inst Inst Confirmation Section VI of Float Tim Delivery After Poo Inst Confirmation Section VI of Float Tim Delivery After Poo Inst Confirmation Section VI of Float Tim Delivery After Poo Float Tim Delivery After Poo Inst Corfirmation Section VI of Float Tim Delivery After Poo Float Tim Delivery After Poo Float Tim Delivery After Poo	Original Completion date for Section II		:				21/11		······
civil works Installatio Testing & Original C Section IV of Delivery of 1, T&C of Section V of Section V of Float Tim After Poo Delivery of Delivery of Delivery T&C onfirmation Section VI of Float Tim After Poo Delivery Test 1, T&C 1,	ion IN of E&M Works	156 days Mon 19/6/00 f 102 days Mon 19/6/00			18/07		•		
Installatio Testing & Original C Section IV of I Delivery c I, T&C of I, T&C of I, T&C of Section V of I Delivery c Installatio T&C of m Confirmation C Section VI of Float Tim After Por Delivery Confirmation Section VI of Float Tim After Por Delivery Confirmation Section VI of Float Tim After Por Delivery Confirmation Section VI of Float Tim Delivery After Po Inst Confirmation Section VI of Float Tim Delivery After Po Inst	Delivery of Material - dosing pumps and pipework (short ship due to change o civil works requirement)			ļ					
Original C Section IV of Delivery C 1, TaC of 1, TaC of 1, TaC of 1, TaC of	Installation of pH Control System for Bioreators	66 days Thu 31/8/06							
Section IV of Delivery of I, T&C of Installatio T&C of IN Confirmation of Section VI of Float Tim After Pool Deliv Deliv Insta Section VI of Float Tim After Pool Other Pool Test I, T&C I, T I, T I, T I, T I, T I, T I, T I, T	Testing & Commissioning of pH Control System for Bioreators	17 days Sun 5/11/06	-						
Delivery of I, T&C of I, T&C of I, T&C of I, T&C of I, T&C of Section V of I Delivery of Installatio T&C of m Confirmation of Section VI of Float Tim After Poo Deliv Deliv Deliv TATER Por Deliv TATER Poo Deliv TATER Poo Deliv TATER Poo Deliv TATER Poo Deliv TATER Poo Delivery After Poo Test I, T& I, T& I, T& I, T& Delivery After Poo Test Confirmation Section VII of Float Tim Delivery After Poo Insta Confirmation Section VII of Float Tim Delivery After Poo I, T Confirmation Section VII of Float Tim Delivery After Poo I, T I, T Confirmation Section VII of Float Tim Delivery After Poo I, T I,	Original Completion date for Section III	0 days Mon 16/10/0	<u>I</u> ,	1			16/30		
I, TAC of I, TAC of I, TAC of I, TAC of Section V of I Delivery Installation TAC of Nor Section VI of Float Tim After Poo Delivery Delivery TAC Section VI of Float Tim After Poo Delivery Delivery Tac I, TA Section VI of Float Tim After Poo Delivery After Poo Instal Confirmation of Float Tim Delivery After Poo Instal Confirmation Section VI of Float Tim Delivery After Poo I I Section VI of Float Tim Delivery After Poo I I Section VI of Float Tim Delivery After Poo I I Section VI of Float Tim	ion IV of E&M Works	120 days Fri 18/5/07	1		[18/5	1459
I, T&C of I, T&C of I, T&C of Section V of J Delivery of Installation Confirmation of Section VI of Float Tim After Poo Deliv Insta Confirmation Section VI of Float Tim After Poo Deliv I, T& Confirmation Section VI of Float Tim Delivery After Poo Inst Confirmation Section VI of Float Tim Delivery After Poo Inst	Delivery of Density Current Baffles	107 days Fri 18/5/0	÷ .						
I, T&C of I, T&C of Section V of J Delivery c Installation T&C of n Confirmation (Section VI of Float Tim After Por Deliv Deliv Deliv T&C on Float Tim After Por Deliv Inst Confirmation (Float Tim After Por Deliv I, Tê Section VI of Float Tim Delivery After Po Inst Confirmation Section VI of Float Tim Delivery After Po Confirmation Section VI of Float Tim Confirmation Section VI of Float Tim Delivery After Po Confirmation Section VI of Float Tim Confirmation Section VI of Float Tim Section VI of Float Tim Confirmation Section VI of Float Tim Section VI of Float T	I, T&C of Density Current Baffles for forth existing FST	30 days Fri 18/5/0	÷						
I, T&C of Section V of I Delivery c Installatio T&C of m Confirmation c Section VI of Float Tim After Por Deliv Inst Confirmation Section VI of Float Tim After Por Deliv I, T& Inst Prey Test I, T& Confirmation Section VI of Float Tim Delivery After Poc Inst Confirmation Section VI of Float Tim Delivery After Poc	I, T&C of Density Current Baffles for fifth existing FST	30 days Sun 17/6/0							
Section V of I Delivery c Installatio T&C of n Confirmation c Section VI of I Delivery After Por Confirmation Confirmation Confirmation Section VI of Float Tir After Por Delivery After Por Inst Confirmation Section VI of Float Tir Delivery After Por Inst	I, T&C of Density Current Batfles for sixth existing FST	30 days Tue 17/7/0							
Delivery of installation installation in a section VI of Float Tim After Pool Delivery of the section VI of Float Tim After Pool To Table Section VI of Float Tim Section VI of Float Tim After Pool To Table Section VI of Float Tim Delivery After Pool Installation Correstor VII of Float Tim Delivery After Pool Installation Correstor I, To Confirmation Section VI of Float Tim Delivery After Pool Installation Correstor I, To Confirmation Section VI of Float Tim Delivery After Pool Installation Correstor I, To Confirmation Section VI of Float Tim Delivery After Pool Installation Correstor I, To Confirmation Section VI of Float Tim Delivery After Pool I not Tim De	I, T&C of Density Current Baffles for seventh existing FST	30 days Thu 16/8/0		4				18/5	
Installation T&C of ne Confirmation of Section VI of Float Tim After Por Delin Insta Confirmation - Section VII of Float Tim After Por Delin 1, Té 2, Ta 1, Té 2,	ion V of E&M Works	150 days Fri 18/5/0 33 days Mon 16/7/0						1000 T	
T&C of M Confirmation of Float Tim After Por Dolin Insta T&C I, T& Confirmation of Float Tim After Por Deir I, T& I, T& Confirmation Section VII of Float Tim Section VII of Float Tim Deirvery After Por Insta Confirmation Section VII of Float Tim Deirvery After Por Inst Confirmation Section VII of Float Tim Deirvery After Por Inst Confirmation Section VII of Float Tim Deirvery After Por Inst Confirmation Section VII of Float Tim Deirvery After Por Inst Confirmation Section VI of Float Tim Deirvery After Por Inst Confirmation Section VI of Float Tim Deirvery After Por Inst Confirmation Section VI of Float Tim Deirvery After Por Inst Confirmation Section VI of Float Tim Deirvery After Por I, T I, T I, T I, T I, T I, T I, T I, T	Delivery of Thickening Centrifuges	120 days Fri 18/5/0		-					
Confirmation of Section VI of Float Tim After Por Delik Insta T&C Confirmation (Section VII of Float Tim After Por Deli 1, T& 1, T&	Installation of new SAS thickening system	30 days Sat 15/9/0	1	-				let de	
Section VI of Float Tim After Poo Delin Inst T&C Confirmation Section VII of Float Tim After Poo Delin I, Té I, Té I, Té I, Té I, Té I, Té Confirmation Section VII of Float Tim Delivery After Poo Inst Confirmation Section VII of Float Tim Delivery After Poo Inst Confirmation Section VII of Float Tim Delivery After Poo Inst Confirmation Section IX of Float Tim Delivery After Poo Inst	T&C of new SAS thickening system	O days Tue 2/1/0	and the second					2/1	
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After Por Deliv Deliv Tisc Tisc Tisc ConStrmation Section VII of Float Tim After Por Deliv Tiss Tiss Tiss Float Tim Delivery After Por Inst ConStrmation Section VIII of Float Tim Delivery After Por Inst ConStrmation Section VIII of Float Tim Delivery After Por Tiss Constrmation Section VIII of Float Tim Delivery After Por Tiss Constrmation Section X of Float Tim Delivery After Por Tiss Constrmation Section X of Float Tim Delivery After Por Tiss Construction X of Float Tim Delivery After Por Construction X of Float Tim Delivery After Por Float Tim Delivery After Por Float Tim Delivery After Por Float Tim Delivery After Por Float Tim Delivery After Por Float Tim Delivery After Por Float Tim Delivery After Por Construction X of Float Tim Delivery After Por Float Tim Delivery After Por Float Tim Delivery After Por Float Tim Delivery After Por Float Tim Delivery After Por Float Tim Delivery After Por Float Tim Float	Float Time for Possession of Site	121 days Sat 14/7/0							
Delin Delin Delin Insta T&C I, T& Section VII of Float Tirr After Poc Delin I, Tä Insta Pres Tessi I, Tä Confirmation Section VIII of Float Tir Delivery After Poc Inst Confirmation Section VIII of Float Tir Delivery After Poc Inst Cor Inst Confirmation Section VIII of Float Tir Delivery After Poc Inst Cor Inst Inst Cor Cor Inst Cor Inst Cor Inst Cor Inst Cor Inst Cor Inst Cor Inst Cor Inst Cor Inst Cor Cor Cor Cor Cor Cor Cor Cor Cor Cor		341 days Mon 12/11/0			;		ļ		
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Insta TAC i, TS Confirmation - Section VII of Float Tirr After Poo Tesis 7 Tesis 7 Confirmation Section VII of Float Tirn Delivery After Po Inst Confirmation Section VII of Float Tirn Delivery After Po Float Tir Confirmation Section IX of Float Tir Delivery After Po Lot Tirn Section IX of Float Tirn Delivery After Po Lot Tirn Delivery	Delivery of Switchboard in ABH #2	30 days Sun 2/12/0					ł		
TAC i, TA Confirmation of Float Tirr After Poc Deliv i, TA After Poc Delivit i, TA i, TA Insti Preg Tess i, TA Confirmation Section VIII of Float Tirl Delivery After Poc Cor Insti Confirmation Section X of Ploat Tirl Delivery After Poc Cor Insti Confirmation Section X of Ploat Tirl Delivery After Poc Cor Insti Confirmation Section X of Ploat Tirl Delivery After Poc Insti Confirmation Section X of Ploat Tirl Delivery After Poc Insti Confirmation Section X of Ploat Tirl Delivery After Poc I, Ti Confirmation Section X of Ploat Tirl Delivery After Poc I, Ti Confirmation Section X of Ploat Tirl Delivery After Poc I, Ti Confirmation Section IX of Ploat Tirl Delivery After Poc I, Ti Confirmation Section IX of Ploat Tirl Delivery After Poc Ploat Tirl Delivery After Poc Ploat Tirl Delivery After Poc Ploat Tirl Delivery After Poc I, Ti Confirmation Section IX of Ploat Tirl Delivery After Poc I, Ti Confirmation Con I, Ti Confirmation Con I, Ti Confirmation Con I, Ti Confirmation Con Con I, Ti Confirmation Con I, Ti Con I, Ti Con	Installation of new Air blower house equipment	290 days Mon 12/11/0		i i					
i, T8 Confirmation of Section VII of Float Tirr After Po Delin I, T8 I, T8 I, T8 I, T8 Inst Pres Tess Confirmation Section VII of Float Tin Delivery After Po Cor Inst Confirmation Section X of Float Tir Delivery After Po Confirmation Section X of Float Tir Delivery After Po Inst Confirmation Section X of Float Tir Delivery After Po Inst Tir Delivery I, T I, T Inst	T&C of new Air blower house equipment & interfacing with existing equip			r i	1				
Confirmation 4 Section VII of Float Tim After Po- Deli 1, 78 1, 78	I, T&C of interfacing works between new and existing equipment	51 days Thu 28/8/0	Fri 17/10/08						
Section VII of Float Tirr After Poo Deli 1, Té 1, Té 1	firmation of Date of Pocession of Site for Section VII	0 days Wed 14/2/0	Wed 14/2/07					♦ 14/2	
Float Tirr After Po- Delin I, Tă Inst Preș Tesi Tesi Tesi Float Tir Delivery After Po- Inst Confirmation Section VIII « Float Tir Inst Confirmation Section IX o' Float Tir Delivery After Pc Inst Confirmation Section IX o' Float Tir Delivery After Pc I, T Confirmation Section IX o' Float Tir Delivery After Pc I, T I, I I, I I, I I, I I, I I, I I, I	tion VII of E&M Works	402 days Wed 12/9/0	Fri 17/10/08						
Deir I, Té I, Té I, Té Preç Test Contimation Section VIII d Float Tin Deilvery After Po Inst Cor Inst Confirmation Section IX of Float Tir Deilvery After Pc I, T Deilvery After Pc I, T I, T I, T I, T I, T I, T I, T I, T	Float Time for Possession of Site	120 days Wed 12/9/0	Wed 9/1/08						
I, Té I, Té I, Ta Pres Tess Confirmation Section VII d Float Tin Delivery After Po Inst Cor Cor Inst Cor Cor Cor Cor Cor	After Possession of Site	282 days Thu 10/1/0	5 Fri 17/10/08		1.				-
I, TE Inst Pres Tess I, TC Confirmation Section VIII e Float Tim Delivery After Po Inst Cor I	Delivery of Flow Division Pumps	38 days Wed 23/4/0	Fri 30/5/00	~					
Inst Preg Test Confirmation Section VIII of Float Tim Delway After Poo Inst Cor Ins	I, T&C of new Flow Division Pumps Pits No.1	90 days Thu 10/1/0	1 Tue 8/4/08	T					
Pres Test i, Té Confirmation Section VIII e Float Tin Delivery After Po Cor Inst Confirmation Section IX o Float Tir Delivery After Po L, T L, T	I, T&C of new Flow Division Pumps Pits No.2	90 days Wed 9/4/0	B Mon 7/7/08	L .					
Test i, Té Confirmation Section VIII of Float Tin Delivery After Pool Inst Corr i, Tr Confirmation Section IX of Float Tir Delivery After Pool I, T L, T L, T Inst	Installation of BR5	245 days Thu 10/1/0	3 Wed 10/9/08	S			1		
I, Té Confirmation Section VIII « Float Tim Delivery After Po Inst Cor Inst Confirmation Section IX of Float Tir Delivery After Po I, T I, T I, I I, I I, I I, I Inst	Prepare & implement of SOTR test for BR5	7 days Thu 11/9/0	3 Wed 17/9/08	3					
Confirmation Section VIII e Float Tin Delivery After Po Inst Cor Inst Confirmation Section IX o Float Ti Delivery After Pc I, T I, T I, T I, T Inst	Testing & Commissioning of BR5	30 days Thu 18/9/0	1						
Section VIII e Float Tin Delivery After Po Inst Cor Inst Confirmation Section IX o Float Tir Delivery After Po I, T I, T Inst	I, T&C of new FST distribution chamber	90 days Fri 20/6/0	1					• · · · · · · · · · · · · · · · · · · ·	
Float Tim Delivery After Po- Inst Corr Inst Confirmation Section IX of Float Tir Delivery After Pc I, T I, T Inst	firmation of Date of Pocession of Site for Section VIII	0 days Wed 11/4/0	1	:				♦ 11/4	
Delivery After Po Inst Cor Inst Confirmation Section IX o Float Tir Delivery After Po I, T I, T I, T	tion VIII of E&M Works	312 days Sun 11/11/0		1				T	31/13
After Po inst Cor Inst Confirmation Section IX o Float Tir Delivery After Po I, T I, T I, T	Float Time for Possession of Site	120 days Sun 11/11/0						1	
inst Cor Inst Confirmation Section IX or Plost Tir Delivery After Pic I, T I, T I, T Inst	Delivery of RAS/SAS Pump	30 days Sun 11/11/0							
Con Inst Con Inst Confirmation Section IX of Ploat Tir Delivery After Pcc I, T I, T I, T Inst	After Possession of Site	282 days Tue 11/12/0							
Inst Cor I, Tr Confirmation Section IX of Float Tir Delivery After Pc I, T I, T I, T Inst	Installation of RAS/SAS Pumping Station	188 days Tue 11/12/0	-						
Cor I, T. Confirmation Section IX of Float Tir Delivery After Pc I, T I, T Inst	Commissioning of RAS/SAS Pumping Station	5 days Sat 13/9/0	-					1	
i, T. Confirmation Section IX of Ploat Tir Delivery After Pc I, T I, T I, T	Installation of New FSTs	188 days Tue 11/12/0	-					1	
Confirmation Section IX or Ploat Tir Delivery After Pc I, T I, T Inst	Commissioning of New FSTs	5 days Sat 13/9/0	:	1					
Section IX of Float Tir Delivery After Pc I, T I, T Insi Ces	I, T&C of remaining works inside RAS/SAS Pumping Station	34 days Mon 16/6/0							♦ 15/8
Floet Tin Delivery After Pc I, T I, T Insi Ces	ifirmation of Date of Pocess of Site for Section IX	0 days Wed 15/8/0	:						
Delivery After Pc I, T I, T Inst Cen	tion IX of E&M Works	188 days Sat 15/3/0							
After Pc I, T I, T Inst Cos	Float Time for Possession of Stie	121 days Sat 15/3/						· · · · · · · · · · · · · · · · · · ·	
I, T I, T Inst Cos	Delivery of New Press	30 days Mon 14/4/0	÷						
I, T Inst Cor	After Possession of Site	126 days Wed 14/5/0							
Inst	I, T&C of DG/ Chemical waste store	90 days Wed 14/5/ 120 days Wed 14/5/	-						
Ca	I, T&C of new Sludge Conditioning Tanks				1				
	Installation of new Press House Equipment	119 days Wed 14/5/0							
Section X of	Commissioning of new Press House Equipment	7 days Wed 10/9/0			r	معتير ويستعير ويستعينهم			
	ction X of E&M Works - Remaining Works	1007 days Tue 14/2/	-						
	Deodourisation system, waste gas burner and remaining E&M works	1007 days Tue 14/2/0	÷	:					
1	Demolish the Decommissioned DAF Unit	100 days Mon 8/1/0 30 days Wed 18/4/0	-						
1	Civil Work for New SAS Thickening House	1					i	EINERALISE	
	Completion of Works	0 days Sun 14/10/0 0 days Sun 16/11/0					1		• ·
Contrac	Contract Completion Date	vozys Sun 10/11/							Subarras I I Bitteritore A
November 2006 on: 7		gress internet	Milestone	Rolled Up Task	Rolled Up Mile	estone <> Extern:	al Tasks	External Milestone 🚸	External Milestone 🛛 😨

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Appendix 4

Environmental Requirements

and

Implementation Status

APPENDIX B IMPLEMENTATION SCHEDULE OF MITIGATION MEASURES

Implementation Schedule for Air Quality Control

PP Ref [#]	Environmental Protection Measures	Location /	Implementation Agent	Implementation Stages *			Relevant Legislation &
		Timing		D	С	0	Guidelines
Annex 1 S1.7.1	Dust mitigation measures stipulated in the <i>Air Pollution Control</i> (<i>Construction Dust</i>) Regulation shall be incorporated to control dust emission from the Site. Notice shall be given to the authority prior to commencement of works.	Work sites / during construction period	Contractor		V		Air Pollution Control (Construction Dust) Regulation
Annex 1 S1.7.6 – S1.7.9	Exposed area of inlet screw pumping station excluding its inlet chamber; and sludge holding tanks should be covered, with the foul air drawn through deodourizers and discharged after treatment. Exposed area of grit channels, flume channels and effluent launder channels of primary sedimentation tanks should be covered.	SWHSTW / during design and operation stage	DSD	1			

The section number in the Project Profile for Expansion of Shek Wu Hui Sewage Treatment Works (Application No. DIR-121/2005) *

D = Design, C = Construction and O = Operation

Implementation Schedule for Water Quality Control

PP Ref [#]	Environmental Protection Measures	Location / Timing	Implementation Agent	Implementatio Stages *			Relevant Legislation &
				D	С	0	Guidelines
Annex 2 S2.4.4	The practices outlined in Practice Note for Professional Persons on Construction Site Drainage, Professional Persons Environmental Protection Department, 1994 (ProPECC PN 1/94) including the use of sediment traps, wheel washing facilities for vehicles leaving the site, adequate maintenance of drainage systems to prevent flooding and overflow, sewage collection and treatment, and comprehensive waste management (collection, handling, transportation, disposal) procedures should be adopted to minimize the potential water quality impact from construction site runoff and various construction activities.		Contractor		V		ProPECC PN 1/94; WPCO, Waste Disposal Ordinance

Expansion of Shek Wu Hui Sewage Treatment Works EM&A Manual

PP Ref [#]	Environmental Protection Measures	Location / Timing	Implementation Agent	Imple St	ages		Relevant Legislation &
-		8		D	C	0	Guidelines
Annex 2 S2.4.4	 Construction Runoff and Drainage At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed and internal drainage works and erosion and sedimentation control facilities implemented. Channels, earth bunds or sand bag barriers should be provided on site to direct stormwater to silt removal facilities. The design of the temporary on-site drainage system will be undertaken by the contractor prior to the commencement of construction. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silt/sand traps should be 5 minutes under 	Work site / During the construction period	Contractor		V		ProPECC PN 1/94; WPCO, Waste Disposal Ordinance
	maximum flow conditions. Sizes may vary depending upon the flow rate, but for a flow rate of $0.1 \text{m}^3 \text{s}^{-1}$ a sedimentation basin of 30m^3 would be required and for a flow rate of $0.5 \text{m}^3 \text{s}^{-1}$ the basin would be 150m^3 . The detailed design of the sand/silt traps will be undertaken by the contractor prior to the commencement of construction.						
	surface excavation works during the rainy season (April to September). All exposed earth areas should be compacted and vegetated as soon as possible after earthworks have been completed, or alternatively, within 14 days of cessation of earthworks where practicable. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means.						
	• The overall slope of the site should be kept to a minimum to reduce the erosive potential of surface water flows, and all trafficked areas and access roads protected by coarse stone ballast. An additional advantage accruing from the use of crushed stone is the positive traction gained during prolonged periods of inclement weather and the reduction of surface sheet flows.						

Expansion of Shek Wu Hui Sewage Treatment Works EM&A Manual

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PP Ref [#]	Environmental Protection Measures	Location / Timing	Implementation Agent	Implementation Stages *			Relevant Legislation &
				D	C	0	Guidelines
Annex 2 S2.4.4	 Construction Runoff and Drainage (Cont'd) All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rainstorms. Deposited silt and grit should be removed regularly and disposed of by spreading evenly over stable, vegetated areas. Measures should be taken to minimize the ingress of site drainage into excavations. If the excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities. Open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50m³ should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system. Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers. Precautions to be taken at any time of year when rainstorms are likely, actions to be taken during or after rainstorms are summarized in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storms events, especially for areas located near steep slopes. 	Work site / During the construction period	Contractor		7		ProPECC PN 1/94; WPCO, Waste Disposal Ordinance

Expansion of Shek Wu Hui Sewage Treatment Works EM&A Manual

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PP Ref [#]	Environmental Protection Measures	Location / Timing	Implementation Agent		tages		Relevant Legislation &
				D	C	0	Guidelines
Annex 2 S2.4.4	 Construction Runoff and Drainage (Cont'd) All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing bay should be provided at every site exits and washwater should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheelwash bay to the public road should be paved with sufficient backfill toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains. On-site drainage system should be equipped with oil interceptors to separate oil/fuel from contaminated storm water. 	Work site / During the construction period	Contractor		V		ProPECC PN 1/94; WPCO, Waste Disposal Ordinance
Annex 2 S2.4.4	 General Construction Activities Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts. All fuel tanks and storage areas should be provided with locks and 	Work site / During the construction period	Contractor		V		ProPECC PN 1/94; WPCO, Waste Disposal Ordinance
	sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching water sensitive receivers nearly.						
Annex 2 S2.4.4	 Sewage from Construction Workforce Sewage from construction workforce should be handled by portable chemical toilets or sewage holding tanks with the sewage regularly collected by a reputable sewage collector for disposal at, for example, SWHSTW. Sewage from on-site toilets should be diverted to and stored within sewage holding tanks for later disposal. 	Work site / During the construction period	Contractor		\checkmark		ProPECC PN 1/94; WPCO, Waste Disposal Ordinance
Annex 2 S2.5.3 – S2.5.11	The implementation programme of the village sewerage should be monitored to achieve the target sewerage connection to communal sewers.	SWHSTW/ During the operation period	DSD			N	ProPECC PN 1/94; WPCO, Waste Disposal Ordinance

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PP Ref [#]	Environmental Protection Measures	Location /	Implementation Agent	Implementation Stages *			Relevant Legislation &
		Timing		D	С	0	Guidelines
Annex 2	Standby equipment will provide further safeguard on proper functioning	SWHSTW/	DSD	$\overline{\mathbf{A}}$		N	ProPECC PN 1/94;
S2.5.12	of all key treatment facilities e.g. standby air blowers to ensure adequate	During the					WPCO, Waste
	air supply for the biological treatment process and standby pumps to	design and					Disposal Ordinance
	prevent any overflow of sewage due to mechanical failure of pumps. In	operation period					-
	the remote case that untreated effluent is discharged, an emergency						
	contingency plan has been formulated to minimize the impact of						
	emergency discharges and facilitate subsequent management of						
	emergency. If there is a power failure, the plant manager will start up the						
	emergency generator to provide electricity supplies for the pumps and						
	regularly monitor the quality of effluent discharge.						
Annex 2	Routine monitoring of the effluent quality from the SWHSTW should be	SWHSTW/	DSD			\mathbb{N}	ProPECC PN 1/94;
S2.7.2	conducted in order to satisfy the conditions of the WPCO discharge	During the					WPCO, Waste
	licence.	operation period	1			1	Disposal Ordinance

The section number in the Project Profile for Expansion of Shek Wu Hui Sewage Treatment Works (Application No. DIR-121/2005)
 * D = Design, C = Construction and O = Operation

A. TREAMS STATEMENT

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Drainage Services Department

Implementation Schedule for Waste Management

PP Ref [#]	Environmental Protection Measures	Location / Timing	Implementation Agent	Imple St	ment: ages		Relevant Legislation &
				D	С	0	Guidelines
Annex 3 S3.5.1	 Waste Reduction Measures at Planning and Design Stage The levels of structures should be designed such that excavation could be minimized as far as practicable. Excavated materials generated from construction works to be re-used on-site as far as practicable to reduce off-site disposal. Control measures recommended under the prevailing ETWB circulars should be strictly followed to ensure proper management of the C&D materials with an aim to minimize the generation of C&D material and maximize the use of inert C&D material. 	Work site / During the planning and design stage	DSD	1			ProPECC PN 1/94; WPCO, Waste Disposal Ordinance

PP Ref [#]	Environmental Protection Measures	Location / Timing	Implementation Agent	Imple St	menta tages -		Relevant Legislation &
INCI		Tunng		D	C	0	Guidelines
Annex 3 S3.5.1	 Waste Reduction Measures at Construction Stage Measures recommended in the ETWB TCW No. 15/2003 should be followed to require the contractor to prepare and implement an enhanced Waste Management Plan (WMP) to encourage on-site sorting of C&D materials and to minimize their generation during the course of construction. For the demolition works, the contractor shall submit a method statement for the works as part of the WMP. The Contractor shall include in the method statement the sequence of demolition and the work programme to facilitate effective recovery of reusable and/or recyclable portions of the C&D materials at the earliest stage, so as to minimise the need for subsequent sorting. Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal. Separate labelled bins shall be provided to segregate aluminium cans from other general refuse generated by the work force, and to encourage collection of by individual collectors. Any unused chemicals or those with remaining functional capacity shall be recycled. Maximising the use of reusable steel formwork to reduce the amount of C&D material. Prior to disposal of C&D waste, it is recommended that wood, steel and other metals shall be separated for re-use and / or recycling to minimise the quantity of waste to be disposed of to landfill. 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. 	Work site / During the construction period	Contractor				ProPECC PN 1/94; WPCO, Waste Disposal Ordinance

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PP Ref [#]	Environmental Protection Measures	Location / Timing	Implementation Agent	Imple S	ement: tages		Relevant Legislation & Guidelines
na an a				D	C	0	
Annex 3 S3.5.2 – S3.5.5	 Good Site Practices nomination of approved personnel, such as a site manager, to be responsible for good site practices, and making arrangements for collection of all wastes generated at the site and effective disposal to an appropriate facility. training of site personnel in proper waste management and chemical waste handling procedures; Provision of sufficient waste disposal points and regular collection for disposal; appropriate 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; a Waste Management Plan should be prepared and should be submitted to the Engineer for approval; and a recording system for the amount of wastes generated, recycled and disposed (including the disposal of C&D material at landfills and public filling facilities, as appropriate, and to control fly tipping, a trip-ticket system should be included as one of the contractual requirements to be implemented by an Environmental Team undertaking the Environmental Monitoring and Audit work. The measures recommended in ETWB TCW No. 31/2004 should be followed. 	period	Contractor				ProPECC PN 1/94; WPCO, Waste Disposal Ordinance

PP Ref [#]	Environmental Protection Measures	Location /	Implementation Agent	Implementation Stages *			Relevant Legislation &
		Timing		D	C	0	Guidelines
Annex 3 S 3.5.6	 General Refuse General refuse should be stored in enclosed bins or compaction units separate from C&D material. A reputable waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D material. An enclosed and covered area is preferred to reduce the occurrence of 'wind blown' light material; 	Work sites / During the construction period	Contractor		1		EIAO-TM and Noise Control Ordinance
Annex 3 S 3.5.7	 Construction and Demolition Material The C&D material generated from the site formation and demolition works should be sorted on-site into inert C&D material (that is, public fill) and C&D waste. In order to minimise the impact resulting from collection and transportation of C&D material for off-site disposal, the excavated material comprising fill material should be reused on-site as backfilling material as far as practicable. C&D waste, such as wood, plastic, steel and other metals should be reused or recycled and, as a last resort, disposed of to landfill. A suitable area should be designated within the site for temporary stockpiling of C&D material and to facilitate the sorting process. 	Work sites / During the construction period	Contractor		V		EIAO-TM and Noise Control Ordinance

Expansion of Shek Wu Hui Sewage Treatment Works EM&A Manual

PP Ref [#]	Environmental Protection Measures	Location / Timing	Implementation Agent	Implementation Stages *			Relevant Legislation &
				D	C	0	Guidelines
Annex 3 S 3.5.8	 Chemical Wastes When chemical wastes are produced at the construction site, the Contractor would be required to register with the EPD as a Chemical Waste Producer and to follow the requirements stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used. Appropriate labels should be securely attached on each chemical waste container indicating the chemical characteristics of the chemical waste, such as explosives, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed waste collector to transport and dispose of the chemical waste) (General) Regulation. 	Work sites / During the construction period	Contractor		1		EIAO-TM and Noise Control Ordinance

The section number in the Project Profile for Expansion of Shek Wu Hui Sewage Treatment Works (Application No. DIR-121/2005) * D = Design, C = Construction and O = Operation

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Drainage Services Department

Expansion of Shek Wu Hui Sewage Treatment Works EM&A Manual

Implementation Schedule for Noise Control

PP Ref [#]	Environmental Protection Measures	Location /	Implementation Agent		ement tages		Relevant Legislation &
		Timing		D	C	0	Guidelines
Annex 4 S4.7.1	Use of quiet PME	Work sites / During the construction period	Contractor		V		EIAO-TM and Noise Control Ordinance
Annex 4 S4.7.3	 Good Site Practice Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction phase; Silencers or mufflers on construction equipment should be utilised, if found necessary, to further reduce noise, and should be properly maintained during the construction phase; Mobile plant should be sited as far away from NSRs as possible; Machines and plant (such as trucks) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; Plant known to emit noise strongly in one direction, should, where possible, be orientated so that the noise is directed away from nearby NSRs; and 	Work sites / During the construction period	Contractor				EIAO-TM and Noise Control Ordinance
	 Material stockpiles and other structures should be effectively utilised, wherever practicable, in screening noise from on-site construction activities. 						

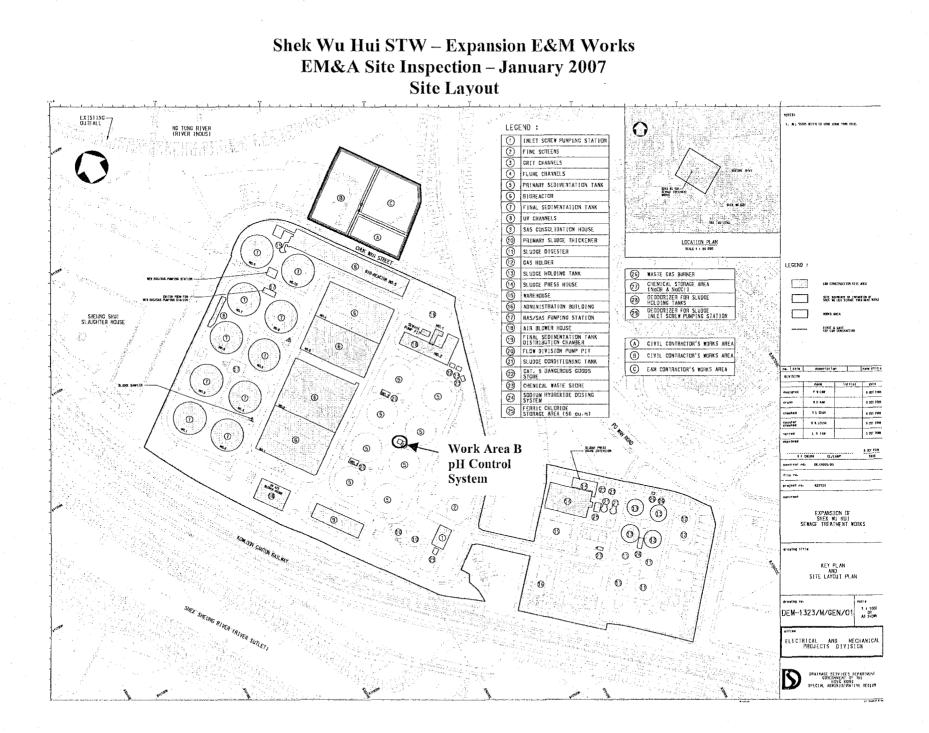
The section number in the Project Profile for Expansion of Shek Wu Hui Sewage Treatment Works (Application No. DIR-121/2005) * D = Design, C = Construction and O = Operation

STREET ROOMS

Site layout plan

and

Site Inspection Checklists



Inspectio	on Date: <u>Jan</u>	uary.	2,2	<u>cc7</u>		Time:		7=30	- 10:15	
Inspecte	d By:	0								
IEC:		/				E&M C Repres			Y. M. Hor	<u>ig, K.H.</u> La
DSD Represe	entative: <u>н.н.</u>	Yuen	, S. 1	<u> D. Fun</u>		Enviror Team l			Angela	Lau
Weathe	r									
Condition	Sunny] [/ F	V ine	Overca] ast [Drizzle	Ra	in	 Storm	Hazy
Tempera	ture 19] ℃		Humidi	ty	81 9	6			
Wind	Calm]	ight	■ Breez] e S	Strong	[Directior	ר <u>א</u>	
Ref.	Brief Descrip	tion	s	ite	Ac	tivity C	omplia	nce	Action F	Required/
No. ⁽¹⁾	of Mitigatio	n	Loca	tion ⁽²⁾	Yes	No	N/A	Unk		ble Party ⁽³⁾
Air Qu	ality - Dust		2.			1		· · · · ·	I	
1	Water spray		E	3						
2	Cover debris						\checkmark			
3	Wet & cover stoc	kpile					\checkmark			
4	Skip hoist						\checkmark			
5	Vehicle washing						\checkmark			
6	Clear of dusty ma	terial					\checkmark			
7	Water spray on ro	ad					\checkmark			
8	Cement bags						\checkmark	-		
9	Dusty material						\checkmark			
10	Cover belt convey	/or		(\checkmark			
Water	Quality						-			
11	Storm drains		B				_/			
12	Sand/silt removal facilities									
13	Exposed soil surf	асе					1			
14	Rainwater silt rem	noval			\checkmark		v			
15	Open stockpiles					·	\checkmark			
16	Groundwater silt removal						\checkmark			

Ref.	Brief Description	Site	Ac	tivity C	omplia	nce	Action Required/
No. ⁽¹⁾	of Mitigation	Location ⁽²⁾	Yes	No	N/A	Unk	Responsible Party ⁽³⁾
17	Large object	В			\checkmark		
18	Sewage discharged				\checkmark		
19	Fuel/chemical storage				\checkmark		
20	Storage area condition				1		
21	Clean-up actions	V					
Noise	Control	L			J		
22	Comply with ordinance	В	\checkmark			-	
23	Working equipment & sound-reducing measures				\checkmark		
24	Equipment condition						
25	Well-maintained plant		v		./		
26	Intermittent use of machines/plants						
27	Noise in one direction						
28	Silencers/mufflers						
29	Away from NSRs						
30	Trial for equipment/sound- reducing measures						
Waste	Disposal	· · · · ·	F		<u> </u>		
31	Construction wastes	В			1		
32	Licensed waste collector				\checkmark		
33	Removal of construction wastes				\checkmark		
34	Waste storage areas		\checkmark				
35	Windblown litter/dust				\checkmark		
36	Waste disposal permits				√		
37	Licensed waste disposal facilities		\checkmark				
38	Careful design, planning & good site management				\checkmark		
39	Bentonite slurries				\checkmark		
40	Chemical wastes handling				\checkmark		
41	Chemical waste storage				\checkmark		
42	Condition of chemical						

Ref.	Brief Description	Site	Act	tivity C	ompliar	nce	Action Required/
No. ⁽¹⁾	of Mitigation	Location ⁽²⁾	Yes	No	N/A	Unk	Responsible Party ⁽³⁾
43	Disposal of chemical wastes	B					
44	General refuse						
45	Chemical waste separation						
46	Strictly prohibited of refuse burning						1
47	Environmental Permit and other documents on-site		\checkmark				
48	Environmental Permit and license displayed						
49	Waste records	V					

Summary / Remarks⁽⁴⁾

- Testing of E+M equipment was observed at pH Control System.

- No particular observation during the site inspection.

(Note: Refer to attached site layout)

Signatures

IEC

DSD Representative

Name:

E&M Contractor Representative

Name: hu WAY

Name: KK CHEUNG

Environmental Team Leader

Name: States las KOM.

- (1) Refer to Site Inspection Checklist Attachment for complete description (Summarized EM&A Manual) of referenced mitigation measure or requirement.
- (2) Indicate exact locations as indicated (by code) on the attached site layout.
- (3) Note actions/plans and responsible party regarding any non-compliance in this column.
- (4) To be filled out by the environmental team.

Inspection	on Date: <u>January</u>	8, 2007	-	Time:		9:45	- 10-30		
Inspecte	ed By:								
IEC:				E&M C Repres		tor ′e:	W.S. Liu <u>Y.M.Hong</u>	, Kenny C , K.H.L	han, S.H.: .ac
DSD Represe	k. K. <i>Chei</i> entative: <u>K. ان ۲۰۰</u> ۵	ing, S.W.F , <u>M.H.Yu</u> er	ung,	Enviror Team I			Angela	Lau	
Weathe	r	<u></u>							
Conditior		Fine Overca] ast [Drizzle	Ra	ain	Storm	Hazy	
Tempera	ture II °C	Humidi	ty	40 %	, 0				
Wind	Calm L	ight Breez] e	Strong	I	Directio	n [<i>N/Ē</i>]		
Ref. No. ⁽¹⁾	Brief Description	Site Location ⁽²⁾	Ac	tivity Co		nce	Action R		
NO. 7	of Mitigation	Location	Yes	No	N/A	Unk	Responsib	le Party ^e	
Air Qu	ality - Dust								
1	Water spray	В			\checkmark				-
2	Cover debris				\checkmark				
3	Wet & cover stockpile				\mathcal{I}				
4	Skip hoist				\checkmark		(
5	Vehicle washing				\checkmark				
6	Clear of dusty material				$\overline{\checkmark}$				
7	Water spray on road								
8	Cement bags								
9	Dusty material				\checkmark	·			
10	Cover belt conveyor				\checkmark				
Water (Quality								
11	Storm drains	B			\checkmark				
12	Sand/silt removal facilities				\checkmark				
13	Exposed soil surface				\checkmark				
14	Rainwater silt removal		\checkmark						
15	Open stockpiles				\checkmark				
16	Groundwater silt removal								

Ref.	Brief Description	Site	Ac	tivity C	ompliar	nce	Action Required/
No. ⁽¹⁾	of Mitigation	Location ⁽²⁾	Yes	No	N/A	Unk	Responsible Party ⁽³⁾
17	Large object	B			\checkmark		
18	Sewage discharged				\checkmark		
19	Fuel/chemical storage				\checkmark		
20	Storage area condition						
21	Clean-up actions				\checkmark		
Noise	Control	daaaaa	<u> </u>			1	<u> </u>
22	Comply with ordinance	В					
23	Working equipment & sound-reducing measures						
24	Equipment condition		\checkmark				
25	Well-maintained plant						
26	Intermittent use of machines/plants				1		
27	Noise in one direction						
28	Silencers/mufflers				\checkmark		
29	Away from NSRs				\checkmark		
30	Trial for equipment/sound- reducing measures						
Waste	Disposal	L	1 1				
31	Construction wastes	B					· · · · · · · · · · · · · · · · · · ·
32	Licensed waste collector						
33	Removal of construction wastes				\checkmark		
34	Waste storage areas		\checkmark				
35	Windblown litter/dust						
36	Waste disposal permits				\checkmark		
37	Licensed waste disposal facilities		\checkmark				
38	Careful design, planning & good site management						
39	Bentonite slurries	· · · ·			~		
40	Chemical wastes handling				\checkmark		
41	Chemical waste storage				\checkmark	· .	
42	Condition of chemical waste storage area				\checkmark		

Ref.	Brief Description	Site	Act	tivity C	ompliar	nce	Action Required/
No. ⁽¹⁾	of Mitigation	Location ⁽²⁾	Yes	No	N/A	Unk	Responsible Party ⁽³⁾
43	Disposal of chemical wastes	B			\checkmark		
44	General refuse		\checkmark	_			
45	Chemical waste separation				\checkmark		
46	Strictly prohibited of refuse burning		\checkmark		Tribunte en anno		
47	Environmental Permit and other documents on-site		\checkmark				
48	Environmental Permit and license displayed		\checkmark				
49	Waste records	\bigvee					

Summary / Remarks⁽⁴⁾

- No major site activities were observed. - No particular observation during the site inspection.

(Note: Refer to attached site layout)

Signatures

IEC

DSD Representative

Name:

E&M Contractor Representative

Name: Lu wh sing

K K CHEUNG Name:

Environmental Team Leader

Name: try fly Lan

- ⁽¹⁾ Refer to Site Inspection Checklist Attachment for complete description (Summarized EM&A Manual) of referenced mitigation measure or requirement.
- ⁽²⁾ Indicate exact locations as indicated (by code) on the attached site layout.
- ⁽³⁾ Note actions/plans and responsible party regarding any non-compliance in this column.
- ⁽⁴⁾ To be filled out by the environmental team.

ENVIRONMENTAL SITE INSPECTION CHECKLIST

Inspectio	on Date: January	9, 2007		Time:	<u> </u>	9:45	5 - 10:0	00	
Inspecte	ed By:								
IEC:					contract sentativ	or e:	S. M. Ho, N.S. L.G.,	Kenny Cha Y. M. Hong	in
DSD Represe	entative: <u>M.H.N</u>	luen			nmenta nspecto		_ C . P.	Chan	
Weathe	r								
Conditior		Fine Overc] ast [Drizzle	Ra	lin	Storm	Hazy	
Tempera	ture 11 °C	Humidi	ty	40 %	6				
Wind	Calm L	ight Breez] e S	Strong	Ľ	Direction	n <u>N</u> É		
Ref. No. ⁽¹⁾	Brief Description of Mitigation	Site Location ⁽²⁾	Ac Yes	tivity C No	ompliar N/A	nce Unk	Action R Responsit	equired/ ble Party ⁽³⁾	
Air Qu	ality - Dust	<u> </u>					l		
1	Water spray	N/A			\checkmark				
2	Cover debris	1					-		
3	Wet & cover stockpile						-		
4	Skip hoist								
5	Vehicle washing								
6	Clear of dusty material						-		
7	Water spray on road				J				
8	Cement bags				\checkmark				
9	Dusty material				1				
10	Cover belt conveyor	· V			\checkmark				
Water (Quality						•••••		
11	Storm drains	NIA	-		\checkmark				
12	Sand/silt removal facilities				\checkmark				
13	Exposed soil surface				\checkmark				
14	Rainwater silt removal				\checkmark				
15	Open stockpiles				\checkmark				
16	Groundwater silt removal				\checkmark				

Page 1 of 3

Ref.	Brief Description	Site	Ac	tivity C	omplia	nce	Action Required/ Responsible Party ⁽³⁾
No. ⁽¹⁾	of Mitigation	Location ⁽²⁾	Yes	No	N/A	Unk	Responsible Party ⁽³⁾
17	Large object	NA			\checkmark		
18	Sewage discharged				\checkmark		
19	Fuel/chemical storage				\checkmark		
20	Storage area condition				\checkmark		
21	Clean-up actions				$\overline{}$		
Noise	Control						
22	Comply with ordinance	N/A	\checkmark				
23	Working equipment & sound-reducing measures				\checkmark		
24	Equipment condition		\checkmark	,			
25	Well-maintained plant				\checkmark		
26	Intermittent use of machines/plants				\checkmark		
27	Noise in one direction				\checkmark		
28	Silencers/mufflers				\checkmark		
29	Away from NSRs						
30	Trial for equipment/sound- reducing measures	(\checkmark		
Waste	Disposal	V	1		L	I	
31	Construction wastes	NIA			\checkmark		
32	Licensed waste collector				\checkmark		
33	Removal of construction wastes				\checkmark		
34	Waste storage areas						
35	Windblown litter/dust		v				
36	Waste disposal permits				$\overline{\checkmark}$		
37	Licensed waste disposal facilities		\checkmark				
38	Careful design, planning & good site management				\checkmark		
39	Bentonite slurries				\checkmark		
40	Chemical wastes handling						
41	Chemical waste storage				\checkmark		
	Condition of chemical						

Ref.	Brief Description	Site	Activity Compliance			nce	Action Required/
No. ⁽¹⁾	of Mitigation	Location ⁽²⁾	Yes	No	N/A	Unk	Responsible Party ⁽³⁾
43	Disposal of chemical wastes	NIA			\checkmark		
44	General refuse		\checkmark				
45	Chemical waste separation				\checkmark		
46	Strictly prohibited of refuse burning		\checkmark				
47	Environmental Permit and other documents on-site		\checkmark				
48	Environmental Permit and license displayed		\checkmark				
49	Waste records		\checkmark				

Summary / Remarks⁽⁴⁾

- No major site activities were observed.

- No particular observation during the site inspection.

(Note: Refer to attached site layout)

Hora ley Lan

Signatures

IEC

DSD Representative

Name:

E&M Contractor Representative

Name: Lu UAI SING

DSD Representative

KK CHEING Name:

Environmental Team Leader

Name:

- ⁽¹⁾ Refer to Site Inspection Checklist Attachment for complete description (Summarized EM&A Manual) of referenced mitigation measure or requirement.
- ⁽²⁾ Indicate exact locations as indicated (by code) on the attached site/layout.
- ⁽³⁾ Note actions/plans and responsible party regarding any non-compliance in this column.
- ⁽⁴⁾ To be filled out by the environmental team.

Inspectio	on Date: January	16, 2007		Time:		9:3	0 - 9:45
Inspecte							
IEC:		/			contract sentativ		S. M. Ho, W.S. Lei, Y. M. Hong
DSD Represe	entative: <u> </u>	Tuen			nmenta Inspecto		Angela Lau
Weathe	r					t	
Conditior		Fine Overc] ast [Drizzle	Ra	ain	Storm Hazy
Tempera	ture [9] °C	Humid	ity	76 9	6		
Wind	Calm 1	√ight Breez] e S	 Strong	ſ	Directior	NE
Ref.	Brief Description	Site	Ac	tivity C	ompliar	nce	Action Required/
No. ⁽¹⁾	of Mitigation	Location ⁽²⁾	Yes	No	N/A	Unk	Responsible Party ⁽³⁾
Air Qu	ality - Dust						
1	Water spray	NIA			\checkmark	·	
2	Cover debris				\checkmark		
3	Wet & cover stockpile				\checkmark		
4	Skip hoist			1	\checkmark		
5	Vehicle washing						
6	Clear of dusty material		<u></u>		\checkmark		
7	Water spray on road				$\overline{\checkmark}$		
8	Cement bags				1		
9	Dusty material				\checkmark		
10	Cover belt conveyor	\checkmark				 	
Water	Quality	· ·	J	I			
11	Storm drains	NIA			\checkmark		
12	Sand/silt removal facilities				\checkmark		
13	Exposed soil surface				\checkmark		
14	Rainwater silt removal				\sim		
15	Open stockpiles				\checkmark		
16	Groundwater silt removal				\checkmark		

Ref.	Brief Description	Site	Ac	tivity C	omplia	nce	Action Required/
No. ⁽¹⁾	of Mitigation	Location ⁽²⁾	Yes	No	N/A	Unk	Responsible Party ⁽³⁾
17	Large object	NIA			\sim		
18	Sewage discharged						
19	Fuel/chemical storage				$\overline{\checkmark}$		
20	Storage area condition				V		
21	Clean-up actions				\checkmark		
Noise	Control		·				
22	Comply with ordinance	NIA	\checkmark				
23	Working equipment & sound-reducing measures			<u>,</u>	\checkmark		
24	Equipment condition		\checkmark				
25	Well-maintained plant			· <u></u> .	./		
26	Intermittent use of machines/plants				\checkmark		
27	Noise in one direction				\checkmark		
28	Silencers/mufflers				\checkmark		
29	Away from NSRs						
30	Trial for equipment/sound- reducing measures						
Waste	Disposal		· · · · ·		<u> </u>		
31	Construction wastes	NIA			\checkmark		
32	Licensed waste collector				\checkmark		
33	Removal of construction wastes				\checkmark		
34	Waste storage areas						
35	Windblown litter/dust				\checkmark		
36	Waste disposal permits						
37	Licensed waste disposal facilities		\checkmark				
38	Careful design, planning & good site management		· · · · ·		\checkmark		
39	Bentonite slurries	•			\checkmark		
40	Chemical wastes handling				\checkmark		
41	Chemical waste storage				\checkmark		
42	Condition of chemical waste storage area				\checkmark		

Ref. No. ⁽¹⁾	Brief Description of Mitigation	Site	Act	ivity C	omplia	Action Required/	
		Location ⁽²⁾	Yes	No	N/A	Unk	Responsible Party ⁽³⁾
43	Disposal of chemical wastes	N/A			\checkmark		
44	General refuse		\checkmark				
45	Chemical waste separation						
46	Strictly prohibited of refuse burning		\checkmark				
47	Environmental Permit and other documents on-site		\checkmark				
48	Environmental Permit and license displayed		\checkmark				
49	Waste records		\checkmark				

Summary / Remarks⁽⁴⁾

- No major site activities were observed.

- No partrealar observation during the site inspection.

(Note: Refer to attached site layout)

Signatures

IEC

DSD Representative

Name:

E&M Contractor Representative

Name:

Name: KK (AEUNG

Environmental Team Leader

Name: Stanley Low

- (1) Refer to Site Inspection Checklist Attachment for complete description (Summarized EM&A Manual) of referenced mitigation measure or requirement.
- (2) Indicate exact locations as indicated (by code) on the attached site layout.
- (3)Note actions/plans and responsible party regarding any non-compliance in this column.
- (4) To be filled out by the environmental team.

Inspectio	on Date: <u>Jouna</u>	<u>ary 24</u>	, 2007		Time:		9:30	1 - 9:45	
Inspecte IEC:			<u>-</u>		E&M C Repres			S. M. Ho, W.S. W. Y. M. Ho	ng
DSD Representative: <u>M.H.Y</u>		H. Yw	- Ywen			nmenta nspect		Angela Lau	
Weathe	r								
Conditior	n Sunny	Fine	Overc] ast [Drizzle	Ra	ain	Storm Hazy	
Tempera	ture 16 °	С	Humidi	ity	74 9	6			
Wind	Calm	Light	Breez] e S	Strong	[Directior	N/E	
Ref.	Brief Descriptic	· · ·	Site	Ac	tivity Co	ompliar	nce	Action Required/	
No. ⁽¹⁾	of Mitigation	Loc	ation ⁽²⁾	Yes	No	N/A	Unk	Responsible Party ⁽³⁾	
Air Qu	ality - Dust								
1	Water spray	N	/A			\checkmark			
2	Cover debris					\checkmark			
3	Wet & cover stockpil	le				\checkmark			
4	Skip hoist					\checkmark			
5	Vehicle washing					\checkmark			
6	Clear of dusty mater	ial							
7	Water spray on road					\checkmark			
8	Cement bags					\checkmark			
9	Dusty material					\checkmark			
10	Cover belt conveyor					1			
Water (Quality								•
11	Storm drains	N/	'A			\checkmark			
12	Sand/silt removal facilities					\checkmark			
13	Exposed soil surface					\checkmark			
14	Rainwater silt remov	al				\checkmark			
15	Open stockpiles					· /			
16	Groundwater silt removal					~			

Ref.	Brief Description of Mitigation	Site	Ac	tivity C	omplia	Action Required/	
No. ⁽¹⁾		Location ⁽²⁾	Yes	No	N/A	Unk	Responsible Party ⁽³⁾
17	Large object	NIA			\checkmark		
18	Sewage discharged				\checkmark		
19	Fuel/chemical storage						
20	Storage area condition				\bigvee		
21	Clean-up actions	V			\checkmark		
Noise	Control						
22	Comply with ordinance	N/A	\checkmark				
23	Working equipment & sound-reducing measures				\checkmark		
24	Equipment condition		\checkmark				
25	Well-maintained plant				\checkmark		
26	Intermittent use of machines/plants				\checkmark		
27	Noise in one direction				1		
28	Silencers/mufflers						
29	Away from NSRs				$\overline{}$		
30	Trial for equipment/sound- reducing measures				\checkmark		
Waste	Disposal		·		<u>I</u>	<u> </u>	
31	Construction wastes	N/A					
32	Licensed waste collector				\checkmark	·	
33	Removal of construction wastes			:	\checkmark		
34	Waste storage areas		\sim				
35	Windblown litter/dust				\checkmark		
36	Waste disposal permits				\checkmark		
37	Licensed waste disposal facilities		\checkmark				
38	Careful design, planning & good site management				\checkmark		
39	Bentonite slurries				\checkmark		
40	Chemical wastes handling				\checkmark		
41	Chemical waste storage			j			
42	Condition of chemical waste storage area				\checkmark		

Ref. No. ⁽¹⁾	Brief Description of Mitigation	Site	Ac	tivity C	ompliar	Action Required/	
		Location ⁽²⁾	Yes	No	N/A	Unk	Responsible Party ⁽³⁾
43	Disposal of chemical wastes	NIA			\checkmark		
44	General refuse		\checkmark				
45	Chemical waste separation				\checkmark		
46	Strictly prohibited of refuse burning		\checkmark				
47	Environmental Permit and other documents on-site		\checkmark				
48	Environmental Permit and license displayed		\checkmark				
49	Waste records		1				

Summary / Remarks⁽⁴⁾

- No major site activities were observed.

- No particular observation during the site inspection.

(Note: Refer to attached site layout)

Signatures

IEC

DSD Representative

Name:

E&M Contractor Representative

Name:

K (HEUNG Name:

Environmental Team Leader

Stating Law

(1) Refer to Site Inspection Checklist Attachment for complete description (Summarized EM&A Manual) of referenced mitigation measure or requirement.

Name:

- (2) Indicate exact locations as indicated (by code) on the attached site layout.
- (3) Note actions/plans and responsible party regarding any non-compliance in this column.
- (4) To be filled out by the environmental team.

Inspectio	on Date: January	29,2007	_	Time:		7:30	- 9:50
Inspecte IEC:	ed By:			E&M C Repres			S.M. Ho,
DSD Represe	entative: <u>M. H. Yu</u>	ive: <u>М.Н. Үшен</u>		Enviror Team I	nmenta	1	W.S. Lui, Y.M. Hory Angela Lau
Weathe	r						······
Conditior	L. Manada Lun	Fine Overca	ast [Drizzle	Ra	lin	Storm Hazy
Tempera	ture <u>/</u> ℓ ⁾ °C	Humidi	ty	40 %	6		
Wind	Calm L	ight Breeze	e S	Strong	[Directior	
Ref. No. ⁽¹⁾	Brief Description	Site Location ⁽²⁾	Activity Compliar				Action Required/
NO.''	of Mitigation	Location	Yes	No	N/A	Unk	Responsible Party ⁽³⁾
Air Qu	ality - Dust						
1	Water spray	NIA			\checkmark		
2	Cover debris						
3	Wet & cover stockpile				$\overline{\checkmark}$		
4	Skip hoist				\checkmark		
5	Vehicle washing				\checkmark		
6	Clear of dusty material				\mathbf{V}		
7	Water spray on road						
8	Cement bags				\checkmark		
9	Dusty material				$\overline{\mathbf{V}}$		
10	Cover belt conveyor				\checkmark		
Water (Quality						
11	Storm drains	N/A					
12	Sand/silt removal facilities				\checkmark		
13	Exposed soil surface						
14	Rainwater silt removal						
15	Open stockpiles				\checkmark		
16	Groundwater silt removal				\checkmark		

Ref.	Brief Description of Mitigation	Site	Ac	tivity C	omplia	Action Required/	
No. ⁽¹⁾		Location ⁽²⁾	Yes	No	N/A	Unk	Responsible Party ⁽³
17	Large object	N/A			\checkmark		
18	Sewage discharged				\checkmark		
19	Fuel/chemical storage				\checkmark		
20	Storage area condition	· · ·			\checkmark		
21	Clean-up actions				V		
Noise	Control	¥	_L	L	4	1	L
22	Comply with ordinance	NIA	\checkmark				
23	Working equipment & sound-reducing measures				\checkmark		
24	Equipment condition		\checkmark				
25	Well-maintained plant				./		
26	Intermittent use of machines/plants				\checkmark		
27	Noise in one direction						
28	Silencers/mufflers						
29	Away from NSRs						
30	Trial for equipment/sound- reducing measures				\checkmark		
Waste	Disposal	v					······
31	Construction wastes	NIA			\checkmark		
32	Licensed waste collector				\checkmark		
33	Removal of construction wastes				J		
34	Waste storage areas		\checkmark				
35	Windblown litter/dust				\checkmark		
36	Waste disposal permits		ø		\checkmark		
37	Licensed waste disposal facilities		\checkmark				
38	Careful design, planning & good site management				\checkmark		
39	Bentonite slurries	·			\checkmark		
40	Chemical wastes handling				\checkmark		
41	Chemical waste storage						
42	Condition of chemical waste storage area				\checkmark		

Ref. No. ⁽¹⁾	Brief Description of Mitigation	Site	Act	ivity C	omplia	Action Required/	
		Location ⁽²⁾	Yes	No	N/A	Unk	Responsible Party ⁽³⁾
43	Disposal of chemical wastes	N/A			\checkmark		
44	General refuse		\checkmark				
45	Chemical waste separation				\checkmark		
46	Strictly prohibited of refuse burning		\checkmark				
47	Environmental Permit and other documents on-site		\checkmark				
48	Environmental Permit and license displayed		\checkmark				
49	Waste records		\checkmark				

Summary / Remarks⁽⁴⁾

- No major site activities were observed.

- No particular observation during the site inspection.

(Note: Refer to attached site layout)

Signatures

DSD Representative

Name:

E&M Contractor Representative

SING Name: Luc WAL

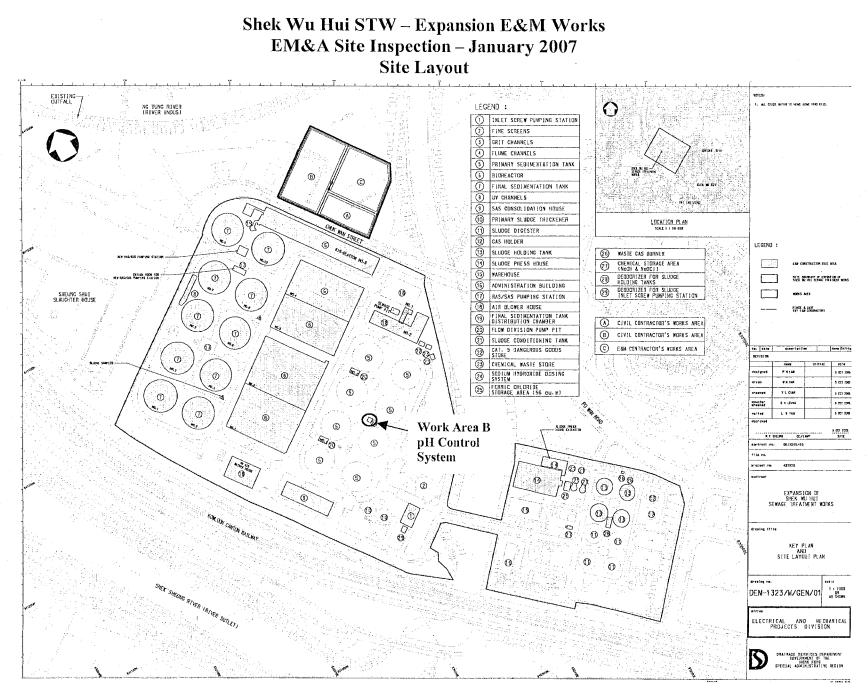
CHEUNG Name:

Environmental Team Leader

Name:

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- ⁽²⁾ Indicate exact locations as indicated (by code) on the attached site layout.
- ⁽³⁾ Note actions/plans and responsible party regarding any non-compliance in this column.

⁽⁴⁾ To be filled out by the environmental team.



Deficiency Investigations Reports

(Not Applicable)

Complaint Reports

(Not Applicable)

Summons and Prosecutions Records

(Not Applicable)

Permits

Same as in June 2006 Report