Maeda Corporation



Expansion of Shek Wu Hui Sewage Treatment Works

Monthly EM&A Report (December 2005)

January 2006

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Consulting

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Certified by Environmental Team Leader Sharifah Or Consulting



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1 Executive Summary

The expansion of Shek Wu Hui Sewage Treatment Works (SWHSTW) aims to increase the treatment capacity of the existing SWHSTW to cope with the increasing wastewater flows and loads as a result of the population growth in the catchment area of Fanling/Sheung Shui and the committed extension of sewerage system to unsewered areas. It is considered as a project constituting a material change to an exempted designated project under Schedule 2 of EIAO. Thus, the procedures under the EIAO have been followed and an Environmental Monitoring and Audit (EM&A) Programme has to be carried out. The present report documents the outcomes of the EM&A Works undertaken during December 2005.

Breaches of Action and Limit Levels

No non-compliance of action/limit level was recorded at all monitoring stations for both noise and air quality during the reporting month.

Complaints Log

During this reporting month, no environmental complaint was received.

Notifications of Any Summons and Successful Prosecutions

During the site preparation stage, EPD issued a yellow ticket to the Contractor due to the construction dust impact on 2 November 2005. Low humidity is considered as the main reason for the construction dust impact. Mitigation measures such as increasing the frequency of water spraying and provision of fencing along the site boundary were implemented on 3 November 2005. EPD inspected the site on 4 November 2005 and found the condition acceptable.

During the reporting month, no notification of summons or successful prosecution was recorded.

Reporting Changes

There was no reporting change during December 2005.

Future Key Issues

The construction activities for the coming three months will include the construction of H-piles, excavation, the construction of temporary support and backfilling, utilities diversion, pipe laying and the relocation of FeCl₃ tank and the construction of new FeCl₃ tank.



2 Introduction

2.1 Basic Information

Shek Wu Hui Sewage Treatment Works (SWHSTW) provides treatment to the wastewater generated from Fanling/Sheung Shui areas before discharge it into Mai Po Inner Deep Bay Ramsar Site through River Indus and Shenzhen River, thus helps protecting the water quality of River Indus, Shenzhen River and Mai Po Inner Deep Bay Ramsar Site. The expansion of SWHSTW aims to expand the treatment capacity of the existing SWHSTW to cope with the increasing wastewater flows and loads as a result of the population growth in the catchment area of Fanling/Sheung Shui and the committed extension of sewerage system to unsewered areas.

In accordance with Section 9(2)(g) of the Environmental Impact Assessment Ordinance (EIAO), the SWHSTW is an exempted designated project as the existing SWHSTW has been in operation before the EIAO came into effect on 1 April 1998. However, since the proposed works involve physical expansion and alternation to the existing SWHSTW (hereafter called "the Project") and may cause adverse environmental impacts if mitigation measures are not in place, it shall be considered as a project constituting a material change to an exempted designated project under Schedule 2 of EIAO. Hence the procedures under the EIAO have been followed. A Project Profile (PP) for direct application of the EP (Application No.DIR-121/2005) was approved by Environmental Protection Department (EPD) in May 2005 and an environmental permit (EP-218/2005) was obtained prior to the commencement of the expansion works.

Drainage Services Department (DSD) awarded the civil contract of the expansion of SWHSTW to Maeda Corporation (Maeda) in September 2005. Maeda appointed Hyder Consulting Limited (HCL) as the Contractor's Environmental Team (ET) during the construction period. CH2M-IDC Hong Kong Limited is the independent environmental checker (IEC). The construction contract commenced in September 2005 and the total construction period is approximately 36 months. The notified commencement date of work to the Director of EPD is 14 December 2005.

2.2 Management Structure and Project Organisation

The Engineer (DSD) is responsible for overseeing the construction works and ensuring that they are undertaken by the Contractor (Maeda) in accordance with the specification and contractual requirements. The Contractor shall report to the Engineer. The ET is employed by the Contractor and is responsible for conducting the EM&A programme. The IEC shall advise the Engineer on the environmental issues related to the Project.

The key personnel contact names and telephone number are summarised in Table 2-1. The project organisation is shown in Appendix 1.



Party	Position	Name	Telephone number
Project Proponent - DSD	Project Manager	Raymond Lee	2594 7457
	Engineer's Representative	Tim Tsoi	2594 7460
Contractor - Maeda	Site Agent	George Cheung	9268 1918
ET - Hyder	ET Leader	Sharifah Or	2911 2730
IEC – CH2M-IDC	IEC	David Yeung	2872 2934

Table 2-1 Key Personnel Contact Names and Telephone Number for the Project

2.3 Construction Programme

Construction programme of the Project is attached in Appendix 2.

2.4 Works Undertaken during the Reporting Month

Works undertaken during the reporting month included:

- construction of preliminary H-pile;
- fencing erection;
- ground investigation work; and
- setting up of engineer's site office.

2.5 Status of Environmental Permit/ Licence

The status of the Environmental Permit/Licence for the Project is shown below.

Permit/Licence	Application Date	Date of issue	Ref. No.	Valid Until
Environmental Permit	21 May 2005	16 June 2005	EP-218/2005	N/A
Notification under APCO	22 Sep 2005	-	-	-
Registration as a chemical waste producer	26 Sep 2005	4 Nov 2005	WPN: 5213-624- M2446-06	_
Effluent Discharge Licence	11 Nov 2005	20 Dec 2005	Licence No.: W5/11287/1	19 Dec 2010
CNP (For 2 Generators operating between 0700 and 2300 on General Holiday and between 1900 and 2300 on Any Day not being a General Holiday at Site Office)	25 Nov 2005	12 Dec 2005	GW-RN0597-05	12 Jun 2006
Application for Exemption Account for Disposal of construction Waste	12 Dec 2005	Under review by EPD	Application No.: RN/00134	N/A

Table 2-2 Status of Permit/Licence for the Project

Number 126012



3 Environmental Status

3.1 Works Undertaken during the Month with Illustrations

The site has been subdivided into different Works Areas/Portions as illustrated in Appendix 3. The construction of preliminary H-pile, ground investigation works and fencing erection were carried out in Portions 2 and 3. Setting-up of Engineer's Site Office was undertaken in Works Areas A, B and C.

3.2 Project Area, Environmental Sensitive Receivers and Monitoring Locations

The site is located at the existing Shek Wu Hui Sewage Treatment Plant, next to Chuk Wan Street. Project area, environmental sensitive receivers and monitoring locations are shown in Appendix 4.

4 Brief Summary of EM&A Requirements

4.1 Monitoring Parameters

4.1.1 Air Quality

During the construction phase impact monitoring, 1-hour and 24-hour Total Suspended Particulates (TSP) levels are measured at the selected air monitoring locations in accordance with the EM&A Manual. These two parameters are measured to indicate the impacts of construction dust on air quality.

4.1.2 Noise

The construction noise level is measured in terms of the A-weighted equivalent continuous sound pressure level (L_{eq}) for 30 minutes. $L_{eq(30 \text{ min})}$ is used as the monitoring parameter for the period between 0700 and 1900 hours on normal weekdays. For all other time periods, $L_{eq(15\text{min})}$ is employed for comparison with the Noise Control Ordinance (NCO) criteria.

Other noise parameters such as L_{10} and L_{90} are also obtained for reference.



4.2 Action and Limit Levels

4.2.1 Air Quality

The baseline monitoring results documented in the Baseline Monitoring Report for the Project (our report ref.: EA01284R0012) form the basis for derivation of the Action and Limit Levels for air quality impact monitoring. Table 4-3 shows the derived Action and Limit Levels for the Project. If the air quality criteria are exceeded due to the Project, the Event/Action Plan summarised in Table 4-5 should be triggered immediately.

Monitoring Station ID	1-hour TSP Level in (μg/m³)		24-hour TSP Level in (μg/m³)	
	Action Level	Limit Level	Action Level	Limit Level
CAM1a	342. 7	500	203.3	260
CAM2a	340.2	500	201.6	200

Table 4-3 Action and Limit Levels for Air Quality

4.2.2 Noise

The Action and Limit Levels for construction noise are defined in Table 4-4. If valid non-compliance of the criteria occurs, actions in accordance with the Event/Action Plan in Table 4-6 should be implemented. If construction works are undertaken during the restricted hours, a construction noise permit under NCO shall be obtained by the Contractor.

Time Period	Action Level	Limit Level
0700 – 1900 hours on normal	When one documented complaint is	75 dB(A)
weekdays	received	

Table 4-4 Action and Limit Levels for Noise

4.3 Event and Action Plans

The Event and Action Plans for air quality and noise monitoring are shown in Tables 4-5 and 4-6, respectively.



EVENT	ACTION						
EVENI	ET	IEC	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. 	 Notify Contractor. 	 Rectify any unacceptable practice; Amend working methods if appropriate. 			
Exceedance for two or more consecutive samples	Identify source, investigate the cause of exceedance and propose remedial measures; Inform IEC and ER; Advise 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 to ER within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate.			
LIMIT LEVEL							
Exceedance for one sample	Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC, ER, Contractor and EPD; Repeat measurement to confirm finding; Increase monitoring	Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise ER on the effectiveness of the proposed remedial measures;	Confirm receipt of notification of exceedance in writing; Notify Contractor; Ensure remedial measures properly implemented.	Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate.			



P. /PAIT		ACT	ION	
EVENT	ET	IEC	ER	CONTRACTOR
·	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.	Supervise implementation of remedial measures.		
Exceedance for two or more consecutive samples	 Notify IEC, ER, Contractor and EPD; Identify source, investigate the cause of exceedance and propose remedial measures; Repeat measurement to confirm findings; Increase monitoring 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 ER accordingly; Supervise the implementation of remedial measures.	Confirm receipt of notification of exceedance in writing; Notify Contractor; In consultation 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 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 ER until the exceedance is abated.

Table 4-5 Event/ Action Plan for Air Quality Monitoring



EVENT		Ac	tion	
	ET	IEC	ER	CONTRACTOR
Action Level	 Notify IEC and ER; Carry out investigation; Report the results of investigation to the IEC, ER and Contractors; Discuss with the Contractor and formulate remedial measures; Increase monitoring requrency to check mitigation effectiveness. 	 Review the analysed results submitted by the ET;I Review the proposed remedial measures by the Contractor and advise the ER accordingly; Supervise the implementation of remedial measure. 	 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. 	 Submit noise mitigation proposal to IEC; 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 th ER until the exceedance is abated.

Table 4-6 Event/ Action Plan for Noise Monitoring



4.4 Environmental Mitigation Measures and Requirements

The recommended measures for mitigating air quality, water quality, noise, waste and all other possible environmental impacts due to the construction works have been stated clearly in the EM&A Manual. The details of the measures implemented by the Contractor are shown in Appendix 5.

5 Implementation Status of Environmental Protection and Pollution Control/ Mitigation Measures

The status of the mitigation measures implemented by the Contractor is listed in Appendix 5.

6 Monitoring Results

6.1 Monitoring Methodology

6.1.1 Air Quality

1-hr and 24-hr TSP monitoring works were undertaken by the ET using high volume samplers (HVS). The sampling procedures follow the standard sampling method as set out in High Volume Method for Total Suspended Particulates, Part 50 Chapter 1 Appendix B, Title 40 of the Code of Federal Regulations of the USEPA.

During the sampling, dust laden air is drawn through a HVS fitted with a conditioned, pre-weighted filter paper, at a controlled rate. After sampling for 1 hour and 24 hours, the filter paper with retained particles is collected and returned to the laboratory for drying in a desiccator followed by accurate weighing. Respective 1-hour and 24-hour TSP levels are calculated from the ratio of the mass of particulates retained on the filter paper to the total volume of air sampled.

The HVSs were equipped with an electronic mass flow controller and calibrated against a traceable standard at regular intervals. All equipment, calibration kit and filter papers were clearly labelled.

The sampling procedures and specifications are the same for 1-hour and 24-hour baseline air quality monitoring except the sampling duration. The specifications are as follows:

- 0.6-1.7 m³/min (20-60SCFM);
- Equipped with a timing/control device with +/- 5 minutes accuracy for 24 hours operation;
- Installed with elapsed time meter with +/- 2 minutes accuracy for 24 hours operation;
- Capable of providing a minimum exposed area of 406 cm² (63in²);
- Flow control accuracy: +/- 2.5% deviation over 24-hr sampling period;



- Equipped with a shelter to protect the filter and sampler;
- Incorporated with an electronic mass flow rate controller or other equivalent devices:
- Equipped with a flow recorder for continuous monitoring;
- Provided with a peaked roof inlet;
- Incorporated with a manometer;
- Able to hold and seal the filter paper to the sampler housing at horizontal position;
- Easy to change the filter; and
- Capable of operating continuously for a 24-hour period.

Relevant environmental data including temperature, pressure, weather conditions, elapsed-time meter reading for the start and stop of the sampler, identification and weight of the filter paper, and other special phenomena observed and work progress of the concerned site were also recorded.

Filter papers of size 8"x10" were labelled before sampling. They were inspected clean with no pin holes and conditioned in a humidity-controlled chamber for over 24-hr and be pre-weighed before use for the sampling.

After sampling, the filter papers loaded with dust were kept in a clean and tightly sealed plastic bag, and then returned for reconditioning in the humidity controlled chamber followed by accurate weighing by an electronic balance with a readout down to 0.1 mg. All the collected samples would be kept in a good condition for 6 months before disposal.

The weight of filter paper was measured by a HOKLAS accredited laboratory.

6.1.2 Noise

Weatherproof logging sound level meters which comply with the International Electrotechnical Commission Publication 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications were used to measure the construction noise at the designated monitoring locations. Noise parameters of the A-weighted levels $L_{\rm eq}$, $L_{\rm 10}$ and $L_{\rm 90}$ were measured with a sampling period of 5 minutes throughout the monitoring. The average of six consecutive 5-minute readings was used to provide $L_{\rm eq(30\;minutes)}$ for non-restricted hours. A facade correction of 3dB(A) would be applied to all free field measurements.

During the impact monitoring, information such as date, weather condition, equipment used, measurement results and major noise sources were recorded on the field data record sheet. Noise measurements would not be made in fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed would be checked with a portable wind speed meter capable of measuring wind speed in m/s. All measurements were recorded to the nearest 0.1dB(A).



6.2 Name of Laboratory, Types of Equipment Used and Calibration Details

6.2.1 Name of Laboratory

Filter papers used for air quality monitoring were sent to ALS Environmental, a HOKLAS accredited laboratory, for weighing. Other sampling and analytical works were conducted by Hyder Consulting Limited, the ET.

6.2.2 Types of Equipment Used and Calibration Details

HVS - Model GBM2000H1, manufactured by Anderson Instruments Inc., is used for TSP monitoring. It complies with the USEPA specifications in Appendix B Part 50 - Reference Method for the Determination of Suspended Particulate matter in the Atmosphere (High-Volume Method) of the Code of Federal Regulation dated July 1, 1991. Initial calibration of dust monitoring equipment was conducted upon installation and prior to commissioning. One point flow rate calibration will be carried out every two months. Five-point calibration will be carried out every six months. All the calibration data would be converted into standard temperature and pressure condition.

Orific HVS calibration Kit model G2523 is used for the calibration of HVSs. Calibration of calibration kit will be carried out annually. Appendix 6 presents the monitoring equipment calibration record.

For noise monitoring, Bruel & Kjaer (B&K) Precision Integrating Sound Level Meters of Type 2238 in compliance with the International Electrotechnical Commission Publication 651: 1979 (Type 1) and 804: 1985 (Type 1) Specifications were used.

Prior to and following each noise measurement, the accuracy of the sound level meter is checked using an acoustic calibrator (B&K Type 4230) generating a known sound pressure level at a known frequency. Measurements are considered as valid only if the calibration level from before and after the noise measurement agree to within 1dB. All sound level meters and calibrators will be calibrated annually. Appendix 6 presents the monitoring equipment calibration records.

Table 6-7 summarises the types of monitoring and calibration equipment.



Equipment Type	Manufacturer	Model	Serial Number/I.D.
Sound Level Meter	B&K	Type 2238	2448529
Sound Level Meter	B&K	Type 2238	2285726
Sound Level Calibrator	B&K	Type 4231	1770806
Sound Level Calibrator	Rion	NC-73	10786708
High Volume Sampler ⁽¹⁾	Anderson	GBM 2000 H1	0133
High Volume Sampler	Anderson	GBM 2000 H1	0134
High Volume Sampler(2)	Anderson	GBM 2000 H1	1191
Orific HVS Calibration Kit	Tisch Environmental	G2523	517N

Note: (1) The HVS was used on 14 December 2005

(2) The HVS is used after 20 December 2005

Table 6-7 Monitoring Equipment

6.3 Parameters Monitored

Parameters monitored are described in Sections 4.1.1 and 4.1.2.

6.4 Monitoring Locations

There are two designated air quality monitoring locations identified in the EM&A Manual. Due to the access constraint, alternative monitoring locations were selected and approved by ER and IEC prior the commencement of monitoring. These alternative locations for air quality monitoring are summarised in Table 6-8 and shown in Appendix 4.

Monitoring Station ID	Name of Premises	Monitoring Location
CAM1a	San Po Street Pumping Station	Ground floor level
CAM2a	Sheung Shui Heung Floodwater Pumping Station	Ground floor level

Table 6-8 Air Quality Monitoring Locations

There are two designated noise monitoring locations identified in the EM&A Manual and theirs locations are described below and shown in Appendix 4.

Monitoring Station ID	Name of Premises	Monitoring Location
NM1	Wai Loi Tsuen	1.2m above ground
NM2	Temporary Domestic Structure	1.2m above ground

Table 6-9 Noise Monitoring Locations



6.5 Monitoring Date, Time, Frequency and Duration, Weather Condition and Other Factors

Monitoring frequency for 1-hr TSP and 24-hr TSP is 3 times every 6 days and once every 6 days, respectively. One set of noise measurements will be conducted between 0700 and 1900 on normal weekdays at each monitoring station on a weekly basis, when noise-generating activities are underway. Monitoring date, time and duration for noise and air quality monitoring and all other factors related to the monitoring result, such as weather condition, are listed in the following tables.

Station	Date	Time	Duration	Weather Condition			
1-hr TSP							
	14 Dec 2005	0945 – 1315	3 X 1 hour	Cloudy			
CAM1a	22 Dec 2005	0946 – 1251	3 X 1 hour	Cloudy			
	28 Dec 2005	0923 – 1224	3 X 1 hour	Cloudy			
	14 Dec 2005	0933 – 1305	3 X 1 hour	Cloudy			
CAM2a	20 Dec 2005	1000 – 1209	3 X 1 hour	Fine			
- 1000000000000000000000000000000000000	28 Dec 2005	0935 – 1234	3 X 1 hour	Cloudy -			
24-hr TSP							
	14 Dec 2005	1320 – 1320	24 hours	Cloudy			
CAM1a	22 Dec 2005	1256 – 1256	24 hours	Cloudy			
, .	28 Dec 2005	1227 – 1227	24 hours	Rainy and Cloudy			
	14 Dec 2005	1315 – 1315	24 hours	Cloudy			
CAM2a	20 Dec 2005	1310 – 1310	24 hours	Fine			
	28 Dec 2005	1236 – 1236	24 hours	Rainy and Cloudy			

Table 6-10 Sampling Schedule of Air Quality Monitoring

Station	Date	Time	Duration	Weather Condition
	14 Dec 2005	1000 – 1030	30 mins	Cloudy
NM1	20 Dec 2005	1010 – 1040	30 mins	Sunny
	28 Dec 2005	0945 – 1015	30 mins	Cloudy
3.8	14 Dec 2005	1120 – 1150	30 mins	Cloudy
NM2	20 Dec 2005	1120 – 1150	30 mins	Sunny
	28 Dec 2005	1045 – 1115	30 mins	Cloudy

Table 6-11 Sampling Schedule of Noise Monitoring



6.6 Results and Graphical Plots of Monitoring Parameters

Air quality monitoring results of 1-hour and 24-hour TSP are summarised in Table 6-12 and detailed in Appendix 7. Graphical plots of the monitoring results are also provided in Appendix 7.

Station	Date	Measured L	evel (µg/m³)	Action/Limit	Level (μg/m³)
		1-hr TSP	24-hr TSP	1-hr TSP	24-hr TSP
		256.7			
	14 Dec 2005	250.8	32.6		
		248.9			
		242.5			
CAM1a	22 Dec 2005	231.1	96.9	342.7/500	203.3/260
		194.5			
		291.7			
	28 Dec 2005	289.4	49.4		-
		260.5			
		203.6			
	14 Dec 2005	200.3	189.8		
		182.1			
10		179.8			
CAM2a	20 Dec 2005	158.0	115.1	340.2/500	201.6/260
		150.3			
		229.9			
	28 Dec 2005	210.4	83.3		
		217.1			

^{*} Shaded area indicates an exceedance of Action/Limit Level.

Table 6-12 Air Quality Monitoring Results

Noise monitoring results are summarised in Table 6-13 and detailed in Appendix 7. Graphical plots of the monitoring results are also provided in Appendix 7. As all monitoring was conducted at free field condition, a facade correction of 3dB(A) was applied to each of noise measurements.



Station	Date	Measured N	Measured Noise Level, dB(A)							
		L _{90(30min)}	L _{10(30min)}	L _{eq} (30min)	dB(A)					
	14 Dec 2005	58.5	67.5	65.8						
NM1	20 Dec 2005	56.5	63.0	60.6	75					
	28 Dec 2005	56.0	63.0	61.1						
	14 Dec 2005	50.8	56.2	54.4						
NM2	20 Dec 2005	47.3	54.0	52.1	75					
	28 Dec 2005	47.3	54.0	52.9						

Note: (1) Shaded area indicates an exceedance of Limit Level.

Table 6-13 Noise Monitoring Results

6.7 Factors Which Might Affect the Monitoring Results

During the monitoring practices, the weather was dry in general and dust would be easily generated. Thus, dust from other sources, such as roads with the movement of heavy vehicles surrounding the monitoring stations, would affect the air quality monitoring result.

6.8 QA/QC Results and Detection Limit

The quality assurance (QA) / quality control (QC) results and detection limit are shown in Appendix 8.

7 Non-compliance, Complaints, Notifications of Summons and Successful Prosecutions

7.1 Non-compliance of Action and Limit Levels

No non-compliance of Action or Limit Level was recorded for air quality and noise monitoring.

7.2 Complaints Received

In case of an environmental complaint received, all related parties should follow the complaints response procedures specified in the EM&A Manual.

During this reporting month, no environmental complaint was received. Cumulative number of environmental complaint is shown in Table 7-14.

⁽²⁾ A facade correction of 3dB(A) was applied to each of noise measurements.



Reporting Month	Number of Environmental Complaint Received	Cumulative Number of Environmental Complaint Since the Commencement of the Project
December 2005	0	0

Table 7-14 Cumulative Number of Environmental Complaint

7.3 Notifications of Summons and Successful Prosecutions

On 2 November 2005, EPD issued a yellow ticket to the Contractor due to the construction dust impact. The situation was rectified on 3 November 2005. EPD undertook a site inspection on 4 November 2005 and found the condition acceptable.

No notification of summons or successful prosecution was recorded.

7.4 Review of the Reasons and Implications of Non-compliance, Complaints, Summons and Prosecutions

7.4.1 Non-compliance of Acton/Limit Level

No non-compliance was recorded in the reporting period.

7.4.2 Complaints, Summons and Prosecutions

Low humidity is considered as the main reason for the construction dust impact identified on 2 November 2005. Mitigation measures as suggested by the EPD such as increasing the intensity of watering were implemented and the condition was rectified on 3 November 2005.

7.5 Site Inspection

Weekly site inspections were carried out on 14, 21 and 28 December 2005. The findings of the site inspections and appropriate mitigation measures were recorded in the site inspection checklists.

The observations raised during the site inspections, corresponding recommendations and rectification status are summarised in Table 7-15.



Inspection date	Deficiencies	Recommendation	Status
14 Dec 2005	Cement works to seal the bottom of hoarding was being undertaken during the site	It is reminded that any cement deposited on public area outside the hoarding should be	The condition was rectified on 21 Dec 2005.
	inspection. Some cement was deposited	avoided and cleaned up as necessary.	2. The condition was
,	on public area. 2. Bare ground was dry.	Frequent water spraying is needed.	rectified on 21 Dec 2005.
	Concrete waste was found near the trees. Muddy trails on DSD access road were	The trees retained on site should be properly maintained and no construction material or	The condition was rectified on 21 Dec 2005.
	identified.	waste should be placed under the trees.	4. The condition was
		Wheel washing should be performed within the site to avoid bringing any dirt or mud outside the site.	rectified on 21 Dec 2005.
21 Dec 2005	No observation was raised.	N.A.	N.A.
28 Dec 2005	General refuse was accumulated in the surface channel at the site office area.	Prompt cleaning-up is needed.	The Contractor reported that the condition was rectified on 29 Dec 2005. The condition would be checked again in the next site inspection.

Table 7-15 Summaries of Site Inspections and Recommendations

The site audit conducted by IEC was carried out on 14 December 2005. The Contract has undertaken appropriate actions in responses to the IEC's findings.

8 Waste Management Status

According to the information provided by the Contractor, the following waste materials were generated during the reporting month:

- Inert C&D materials 299 m³; and
- General Refuse 78 m³.

C&D materials were disposed of at Tuen Mun Area 38 public fill. General refuse was collected and disposed of at NENT Landfill properly. No chemical waste was produced in the reporting month. Trip ticket system was implemented and disposal records were in order on site. The Waste Management Plan was followed.



9 Future Key Issues

The construction activity for the coming three months is summarized below:

- construction of H-piles
- excavation, construction of temporary support and backfilling
- utilities Diversion
- pipe laying
- relocation of FeCl₃ tank and construction of new FeCl₃ tank

The upcoming EM&A schedule for the future three months is shown in Appendix 9.

10 Comments, Recommendations and Conclusions

EM&A works have been undertaken in December 2005 for the Project based on the requirements set in the EM&A Manual.

All monitoring equipments have been calibrated and all monitoring protocols have been carried out properly according to the EM&A Manual.

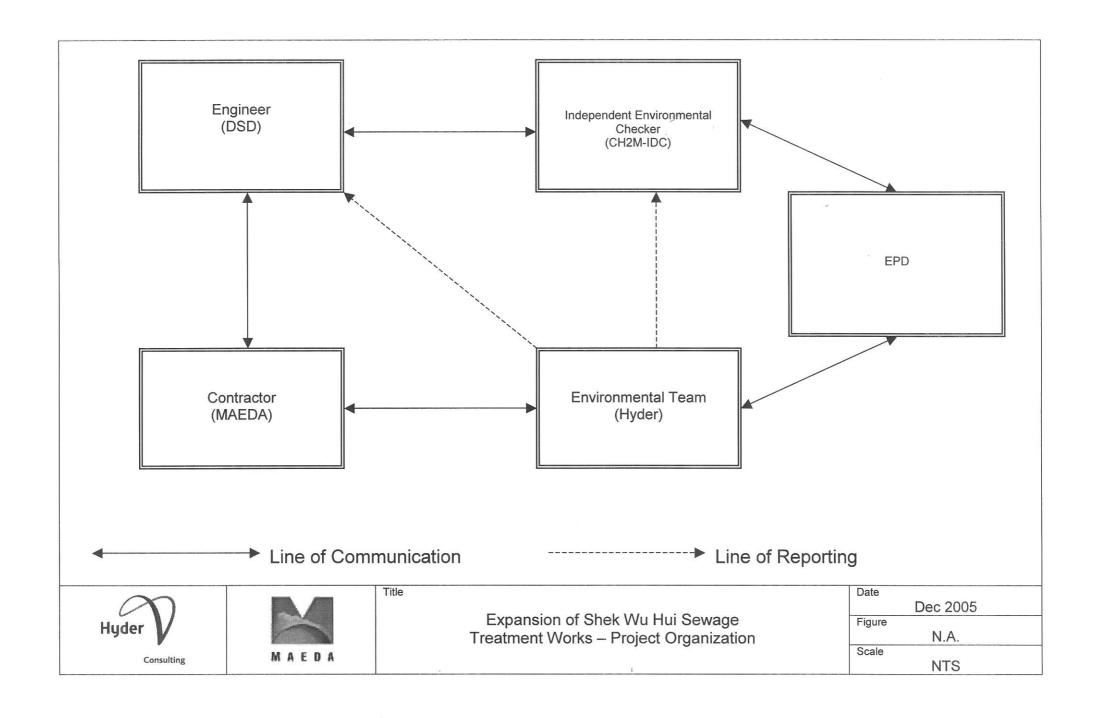
No valid exceedance of Action/Limit Level was recorded during the reporting month.

No compliant, notification of summons and prosecution were recorded during the reporting month. A yellow ticket was issued by EPD to the Contractor due to fugitive dust emission on 2 November 2005 and mitigation measures such as increasing the intensity of watering were implemented. The condition was rectified.

Three weekly site inspections were carried out during the reporting month. In response to the observations raised by ET, the Contractor has undertaken follow-up actions to rectify the condition.



Project Organization





Construction Programme

Start Date	26/09/05		D5DA			Sheet	1 of 5							_			
Finish Date	24/09/08	Early Bar	DODA	Contract No. DC/20		Sileet	1015	Date	1		Revisi	on		Che	ecked	Approve	ed
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	House No.2																
Foundation																	-
DC0202	GI works (Predrilling & reporting)	40 25/10/05	* 09/12/05	DC0132													
DC0202	Preliminary H-piles (1nos.)	40 10/12/05															
DC0206	Permament H-piles (21nos.)	90 13/12/05															
DC0208	Proof Load Test (1nos.)	30 29/03/06	03/05/06	DC0206*			1000							8			
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DC0216	Excavation, Grid 1 - 6/K-L (5.3mPD)	6 04/05/06		DC0208*, DC0210			8							8 9			
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DC0222	Pilecaps, 6nos. Grid 1-3/K-L + Ground Beams		18/05/06														
DC0224	Pilecaps, 6nos. Grid 4-6/K-L + Ground Beams	6 19/05/06	_														
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DC0228	Pilecaps, 6nos. Grid 4-6/A-F + Ground Beams	9 02/06/06			-												
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DC0234	Structural works up to ground level	30 21/06/06					i								1	1	
DC0238	Ground floor slab	20 28/07/06		DC0220*, DC0236*													. 1
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DC0242	Structural framing & slab at lev 11.80mPD	35 21/08/06	30/09/06	DC0238*												1	. 1
DC0244	Concrete structure up to roof	24 02/10/06	30/10/06	DC0242*													- 1
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DC0246	Internal Finishes	60 31/10/06	10/01/07	DC0244*						3							
E&M instal	llation																
DC0248	Pipework & drainage/ducts in structures	92 27/07/06	13/11/06	DC0236*				Ellinin									_
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DC0368	Install temporary retaining wall (sheetpile)	30 02/03/06	06/04/06	DC0334, DC0360, DC0364*			4										- 1
DC0370	Demolition of existing pipes No.1, temp closure	1 07/03/06			1	- 1											
DC0372	Excavation & temp. supporting			DC0366*, DC0368*	1		m .								<u> </u>		
Structure															9		
DC0376	Pilecaps	30 21/04/06															
DC0378	Concrete works & pipework	30 27/05/06	03/07/06	DC0376*													\Box
External W																	П
DC0382	Backfilling, remove temp. retaining wall	20 04/07/06			1												
DC0384	Installation, handrail/plate/ladder	23 27/07/06	22/08/06	DC0380*, DC0382*	-		-										\vdash
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DC0334	Mini-piling, Pit 2, 4 nos.	24 01/02/06	* 28/02/06	DC0330*	1				2.22								\vdash
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DC0342	Installation of temp. retaining wall	23 27/07/06						ı									ıÌ
DC0344	Demolition of existing pipes No.2, temp. closure			DC0342*, DC0368	-			1 0000									
DC0346	Excavation & temp. supporting	30 23/08/06	2//09/06	DC0340*, DC0342*,	H		-	Name of the last o				-					-
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DC0386 DC0388	Pilecaps Concrete work & pipework	20 28/09/05															
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DC0390	Backfill to Pit 2, remove temp. retaining wall	30 22/10/05	25/11/05	DC0388*													
DC0390	Installation, handrail/plate/ladder	30 26/11/05															
	The second secon		-		- A												

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DC0396	Pipelaying & connection, Pit 1 to 2		02/01/06 17/02/06		DC0394*													
DC0398 DC0400	Excavate trench Pipelaying & connection Pit 2 to Bioreactor No.5			27/06/06			Commi											-
DC0402	Backfill & reinstate trench			19/07/06														
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DC0302	GI works (predrilling & reporting)			29/11/05														
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DC0306 DC0308	Permanent H -piles (21nos) Proof Load Test (1nos.)			17/03/06			T											
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DC0312	Install temp. retaining wall (sheetpile)	30	18/03/06	22/04/06	DC0306*		1 0											
DC0314	Excavation & temp. supporting, 1/2 depth, north	30	24/04/06	29/05/06	DC0312*													
DC0316	Excavation & temp. supporting, remain, north			05/07/06				Const.]									
DC0318	Excavation & temp. supporting, 1/2 depth, south			28/07/06					1000000									
DC0320	Excavation & temp. supporting, remain, south	30	23/08/06	27/09/06	DC0316, DC0342*		+								-	-	-	+
Substructi DC0322	Pilecaps, 32nos. Bay1-4	40	06/07/06	21/08/06	DC0316*													
DC0322	Pilecaps, 24nos. Bay5-6				DC0320*, DC0346*				1									
DC0326	Base slab, Bay 1 & 3	40 :	23/10/06	07/12/06	DC0322, DC0324*,													
DC0328	Base slab, Bay 2 & 5				DC0324, DC0326*					-								
DC0338	Base slab, Bay 4 & 6	25	17/01/07	14/02/07	DC0328*		-							-	-		-	-
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DC0352	Wall, Bay 285	-		21/03/07														
DC0354 DC0356	Wall, Bay 1&3			05/05/07														
DC0358	Remaining structural work			19/06/07														
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DC0374	Plumbing & pipework, incl. testing			13/03/07						E		_						
DC0404	Place alum. flooring & install handrailing	30	14/03/07	18/04/07	DC0374*		-				- 1						-	+
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DC0410	Backfill, remove temp. retaining wall			07/05/07														
OC0412 OC0414	Water retaining test Concrete butterfly pit & flowmeter chamber 5&6			09/06/07														
C0414	Plumbing & pipework, dumy pipe provided by other			12/07/07									T					
DC0418	Place multi-part/precast cover			04/08/07														
inal Sedi	mentation Tank Distribution Chamber																	
E&M insta																-		
C0422	Internal installation, intermediate platform etc			16/07/07								l l	prom.					
DC0426	Place alum. flooring & install handrailing			08/08/07														
DC0428	Pipelaying, manholes & connection			20/08/07									treases					
DC0430	Reinstatement around area	30	£ 1/UO/U/	25/09/07	1500420		+										-	+
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inal Sedi Foundatio C0432 C0434 C0438 C0438 Earthwork C0438 C0438 Earthwork C0431 C0431 C0431 C0435 C0435 C0435 C0435 C0437 C0437 C0436 C0446 C0446 C0466 C0466 C0466 C0466 C0466 C0470 C0472 C0474 C0474 C0476 C0476 C0506 C0506 C0508	mentation Tank Nos. 9 In GI Works (predrilling & reporting) Preliminary H-piles (1nos) Permanent H-piles, 21 nos. Proof Load Test (1nos) Ses Install temp. retaining wall (sheetpile) Excavation ure Pipelaying, surrounding Pilecaps/Base slab, cast in pipe Wall concrete Internal finishing Water retaining test Backfill & remove temp. retaining wall imentation Tank Nos. 10 In Preliminary H-piles (1nos) Permanent H-piles (41nos) Permanent H-piles (41nos) Proof Load Test (1nos) ses Install temp. retaining wall (sheetpile) Excavation ure Pipelaying, surrounding Pilecaps, Base slab, cast in pipe Wall concrete Internal finishing Water retaining test Backfill & remove temp. retaining wall ction 3 of Works Pumping Station ~ Main Station/Switch Form GI works (predrilling & reporting) Permanent H-pile (6nos.) (ses Install temp. retaining wall (sheetpile) Excavation ure Pipelaps/tie beams Concrete structure up to Lev. 7.4mPD	40 120 30 50 60 45 50 60 40 40 40 120 45 60 60 60 40 40 40 40 45 60 60 60 60 60 60 60 60 60 60 60 60 60	19/12/05 21/12/05 13/05/06 13/05/06 13/07/06 22/09/06 15/11/07 26/03/07 19/12/05 13/05/06 04/10/06 13/05/06 25/07/06 14/12/06 24/02/07 10/08/07 14/11/05 22/03/06 22/03/06 14/11/06 14/11/06 24/02/07 10/08/07 11/11/06 22/03/06 22/03/06 12/10/06	17/12/05 03/02/06 12/05/06 12/05/06 12/07/08 12/07/08 21/09/06 14/11/08 13/01/07 12/05/07 15/08/07 15/08/07 13/12/06 03/10/06 13/12/06 03/09/07 15/08/07 13/12/06 13/12/06 13/12/06 13/12/06 13/12/06 13/12/06 13/12/06 13/12/06 13/12/06 13/12/06 13/12/06 13/12/06 13/12/06 13/12/06 13/12/06 13/12/06 13/12/06 13/12/06 13/12/06 15/11/06	DC0302* DC0432* DC0434* DC0436* DC0436* DC0444* DC0444* DC0431* DC0433* DC0435* DC0432* DC0438* DC0438* DC0458* DC0468* DC0468* DC0468* DC0468* DC0472*						E							
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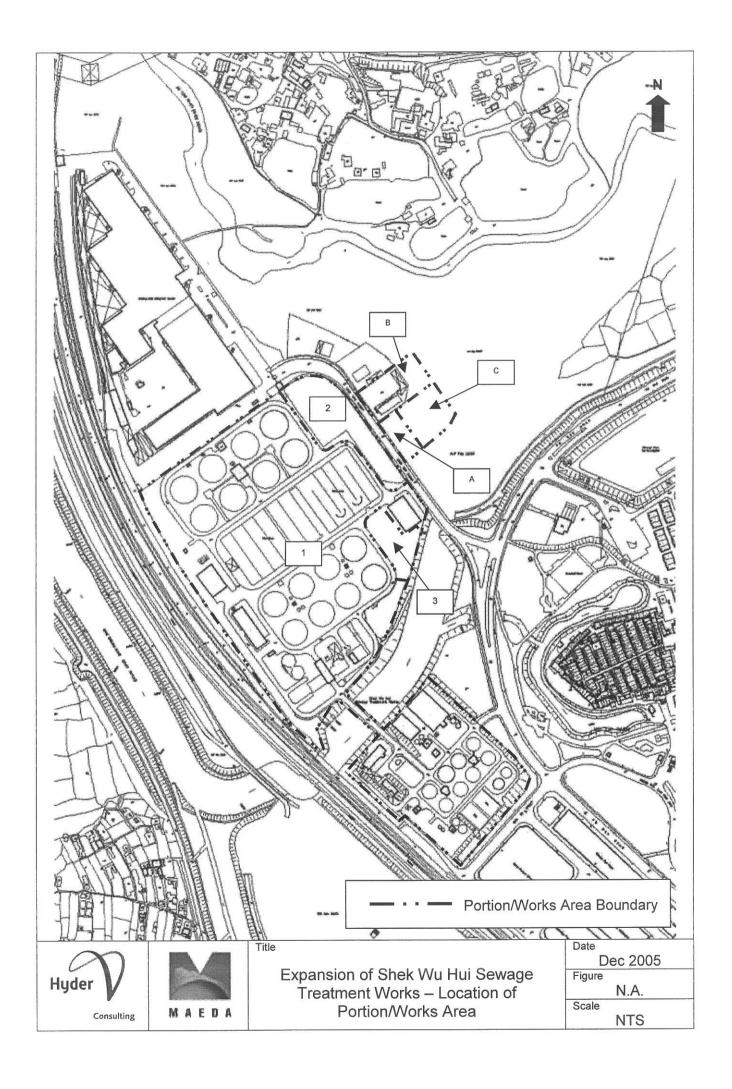
Activity	Activity	Orig		Early	Predecessors	2005 E O N D	JFM	AMJ	006 JAS	OND	JFM	200 A M J .	JAS	OND	J F M	2008 A M J	JAS
ID	Description	Dur	Start 14/05/07	Finish 29/06/07	DC0437*, DC0522	mannani Mananani	нининн	пинении	111111111111	nun annu				m immini			шини
C0524 Switch Roo	Internal/External finishes	1 40	14/05/01	23/00/01	1000407 , 1000022												
C0532	Permanent Mini-pile (6nos.)			20/03/06						Lumma							
C0534	Excavation, blinding, pilecaps				DC0508*, DC0532												
C0536 C0538	Structural works Internal/External finishing	30		20/12/06	DC0472*, DC0536	-1						-					
xternal W		1	20,00,0	1	J-2-11-1-1-1-1												
C054000	External manholes/pits construction	60		22/10/07													
C054200	Pipelaying, surround & connection	39			DC054000*	_							No.				
C056200	Backfill & reinstatement	40	10/10/07	24/11/07	DC0476, DC054200*	-			-					TOTAL CONTRACT OF THE PARTY OF			
ey Date																	
0041/0	Completion of the Section 2			24/11/07	DC0441, DC056200*									•			
C04K3	Completion of the Section 3	United by		24/11/07	B00441, B0000200				-								
THE REAL PROPERTY.	ction 4 of Works																
	ess House Extension																
C0610	GI works (pre-drilling & reporting)	40	14/11/05	30/12/05	DC0502*												
C0612	Preliminary mini piling (1nos)	30	31/12/05	03/02/06	DC0610*												
C0614	Permanent Mini-piles (17nos.)			29/04/06				F3340									
C0616	Proof load test			05/06/06			LICHTERS CO.	-									
C0618	Utility Diversion	150	14/11/05	09/05/06	DC0010			-									
xternal VI C0622	Vorks (FeCI3 tank relocation) Construction new FeCI3 storage tank	20	13/07/06	04/08/06	DC0676*				1000					1		1	
C0624	Relocate the FeCl3 storage tank			21/09/06						I							
arthwork	. W.S.		6.														
C0630	Demolition of existing FeCI Storage tank			27/10/06													
C0632	Demolition of existing wall, Sludge Press House			01/12/06		-1											
C0634	Excavation & pilecaps, 10 nos. Backfill & compaction			08/01/07													
C0636	I grant and the control of the contr	1 30	, 03/01/01	12102101	1-0000												
uperstrue C0638	Structre up to 1st floor	50	13/02/07	7 12/04/07	DC0636*						8						
C0640	Structre up to roof			12/06/07				ļ									
nternal Fi													7				
C0644	Internal finishes works & openings				DC0640*	0*						T					
C0646	Fitting out: doors, railings etc.	50	30/07/07	26/09/07	DC0644, DC0648, DC065		-	-		+							
&M insta	Pipework & ducting	100	13/02/07	7 12/06/07	DC0638*	\dashv											
C0648 x ternal F		100	10.020	12700.0	1												
C0650	External finishes works	4	13/06/07	7 28/07/07	DC0640*								113			-	
	onditioning Tank No.3																
oundatio					The second secon												
C0666	GI works (pre-drilling & reporting)				DC0610*												
C0670	Permanent Mini-piles (6nos.)			22/02/00		 '	Takanan J										
C0672	Proof load test (1/2Nos.)	3	01/05/00	05/06/06	DC0614*		-	_	+								
Earthwork	Install temp. retaining walls (sheetpile)	3	07/06/0	6 12/07/0	DC0672*		1	1									
C0678	Excavation				7 DC0640*, DC0676							100					
C0680	Backfill & rockfill underneath pit	4	0 20/12/0	7 06/02/0	DC0658*											-	
Structure					<u></u>								*********				
C0682	Concrete works		0 18/07/0		7 DC0640, DC0678* 7 DC0682*								1				
C0684	Installation: handrailing/ladders/mesh etc.		0 15/09/0	1 14/09/0	/ DC0002		1									1	
C0656	Pipelaying of pipeline No.11 & 12	4	0 15/09/0	7 02/11/0	7 DC0682*		1										
C0658	Connection to existing systems				7 DC0656*												
C0660	Sump pit construction	4	4 07/02/0	8 28/03/0	B DC0680*												
ludge C	onditioning Tank No.4																
oundatio																	
C0702	GI works (pre-drilling & reporting)	2	0 21/11/0	5 13/12/0	5 DC0666*												
C0704	Permanent Mini-piles (6nos.)				6 DC0702* 6 DC0614*		T										
C0706	Proof load test (1/2Nos.)	1 3	0 0 1/03/0	0 03/00/0	0 000014												
arthworl	Install temp. retaining walls (sheetpile)	3	0 07/06/0	6 12/07/0	6 DC0706*			1									
C0710	Excavation	3	0 13/06/0	7 17/07/0	7 DC0640*, DC0710												
C0714	Backfill & rockfill underneath pit	4	0 20/12/0	7 06/02/0	8 DC0658*		1	-		-	-	-	-			-	+
Structure			0 4010=	7 44000	7 D00712*												
C0716	Concrete works				7 DC0712* 7 DC0716*									4			
C0718	Installation: handrailing/ladders/mesh etc.	1 4	10/09/0	02/11/0	, ,500, 10												
External I DC0724	Sump pit construction	4	4 07/02/0	8 28/03/0	8 DC0714*												_
	us Goods (cat.5) Storeroom	E			100												
arthwor													provide and a				
C0732	Excavation, rockfill & blinding	2	09/07/0	31/07/0	7 DC0262*		-	4	-		+	-	633			-	-
Superstru			ale:	- C	7 000700*								E225	13			
C0734	Structures	1	01/08/0	1/ 28/09/0	7 DC0732*		-	+		-		-	1			-	1
Finishing			5 29/na/r	7 22/11/0	7 DC0538, DC0734*												
C0736	Internal & external finishing Waste storeroom No.1 & 2		2010010	44/11/0	. ,												
nemica E <i>arthwor</i>																	
C0742	Excavation, rockfill & blinding	1	20 09/07/0	07 31/07/0	7 DC0732*												
Superstr		1 .											P				
C0744	Structures		01/08/0	07 28/09/0	07 DC0742*		_				-	-				-	-
Finishing		-															
DC0746	Internal & external finishing		45 29/09/0	07 22/11/0	07 DC0744*			-			-	+			-	-	
(ey Date	•					100											
	3,4413414	-		00/00	DON'T DONCOT DOOT	4*											
DC06K4	Completion of the Section 4		0	28/03/0	08 D004*, DC0660*, DC07	4.		-	-	-	-					-	
***************************************	ection 5 of Works																
lover &	Shelter to Existing Structure														1		
	loung to INV	- 1	44 49/00/	07 20/00#	07 DC0756*, DC0758*												
DC0752	Shelter for UV channel Cover for Inlet Pumping Station				07 DC0756*, DC0758*												
DC0754						1 38		1	1	1	11	1		1	1	1	11

ID	Activity Description	Orig	Early Start	Early Finish	Predecessors				JAS			JAS			2008 A M J	
C0758	Cover for Grit channels		11/07/07		DC0754*	111111111111111111111111111111111111111	111111111111111111111111111111111111111				***************************************	 шавши	рильни	10000000		11011111
C0760	Cover for Sedimentation tank No. 1-8			29/11/07												
C0762	Cover for Sludge Hoarding Tank No. 1-4	50	01/12/07	30/01/08	DC0760*								- IIIII			
adwork	S															
0764	Portion 1	50	31/01/08	28/03/08	DC0762*											
0766	Portion 2&3			10/07/08												
ft Land	scaping Works															
					1											
00770	Planting works (Portion 2)			12/08/08												
00772	Hydroseeding	0	13/08/08	19/08/08	DC0770"	-								-		-
Labustu	nent Works															
079200	General establishment works	30	20/08/08	24/09/08	DC0772*											
y Date	1	1 223			N. C.											
•			-													
C07K5	Completion of the Section 5	0		24/09/08	D004*, DC0772,											
gradin	g of Ting Kok Road Pumping Stati	on No	.5													
08: Se	ction 6 of Works															
mping	Station															
			THE MARKET STATE													
20806	Initial Survey			24/10/05												
0808	Site Clearance + Tree Felling Hoarding Erection			31/10/05 07/11/05												
00812	Demolition of Existing Boundary Wall (partial)			15/11/05												
0814	G.I./Pre-drilling	30	01/11/05	05/12/05	DC0808*								-			
0818	Prelim Pile (1no) (Pile Installation+Setting up)			21/01/06												
0820	Mini Piling (66 nos.) Pile Load Test (1 nos) (Selection of Piles)			23/03/06 28/04/06				100								
0822	Sheetpiling + Wailing + Excavation (ELS)			28/04/06												
0840	Substructure		29/06/06	24/11/06												
0842	Backfilling			20/11/06												
0844	Superstructure (incl. roof)			22/02/07 24/03/07	DC0840*, DC0842					-						
0848	Internal Finishes (Plumbing, Cat ladder, etc) ner House	20	20102101	24/03/0/	D 30044											
niuseni	ICI FIQUAC															
0852	Site Clearance+Tree Felling+Tree Transplanting	24	08/11/05	05/12/05	DC0810*											
0854	G.I./Pre-drilling	30	01/11/05	05/12/05	DC0808*										-	
0856	Prelim Pile (1no) (Pile Installation+Setting up)			-	DC0852*, DC0854*	_										
0858	Mini Piling (10 nos.)	_		23/03/06		—I —										
0860	Pile Load Test (1 nos) (Selection of Piles) Excavation (Open excavation) (2.05m depth)			28/04/06 30/05/06	AND ADDRESS OF THE PARTY OF THE		-									
			,											1	1	
	Substructure	26	31/05/06	30/06/06	DC0862*		1	3,000	i						1	
C0864 C0866	Substructure Backfilling	11	03/07/06	14/07/06	DC0864*											
00864 00866 00868 00870 y Date	The state of the s	11 50	03/07/06 15/07/06 12/09/06	14/07/06 11/09/06 26/09/06	DC0864* DC0866*	70					•					
C0864 C0866 C0868 C0870 ey Date C08K6	Backfilling Superstructure (incl. roof) Internal Finishes Completion of the Section 6 ction 7 of Works	11 50 12	03/07/06 15/07/06 12/09/06	14/07/06 11/09/06 26/09/06	DC0864* DC0866* DC0868*	70					•					
C0864 C0866 C0868 C0870 ey Date C08K6	Backfilling Superstructure (incl. roof) Internal Finishes Completion of the Section 6	11 50 12	03/07/06 15/07/06 12/09/06	14/07/06 11/09/06 26/09/06	DC0864* DC0866* DC0868*	70					•					
C0864 C0866 C0868 C0870 ey Date C08K6	Backfilling Superstructure (incl. roof) Internal Finishes Completion of the Section 6 ction 7 of Works	11 50 12 0	03/07/06 15/07/06 12/09/06 12/09/06	14/07/06 11/09/06 26/09/06 24/03/07	DC0864* DC0868* DC0868* D004*, DC0848*, DC087	70					•					
C0864 C0866 C0868 C0870 Ey Date C08K6 109: Se Ewers, F	Backfilling Superstructure (incl. roof) Internal Finishes Completion of the Section 6 ction 7 of Works Rising Mains (by Open Excavation) Initial Survey Documents Submission (eg. Pipeline Schedule)	11 50 12 0	03/07/06 15/07/06 12/09/06 12/09/06 25/10/05 02/11/05	14/07/06 11/09/06 26/09/06 24/03/07 21/11/05 22/03/06	DC0864* DC0868* DC0868* D004*, DC0848*, DC087 DC0806* DC0800*	70										
20864 20866 20868 20870 29 Date 20866 2092: Se 20922 20924 20926	Backfilling Superstructure (incl. roof) Internal Finishes Completion of the Section 6 ction 7 of Works tising Mains (by Open Excavation) Initial Survey Documents Submission (eg. Pipeline Schedule) Laying Sewer MH6 - MH5 (7m)	11 50 12 0 24 120 10	03/07/06 15/07/06 12/09/06 12/09/06 25/10/05 02/11/05 28/04/06	14/07/06 11/09/06 26/09/06 24/03/07 24/11/05 22/03/06 09/05/06	DC0864* DC0868* D004*, DC0848*, DC087 DC0806* DC0906*, DC0924	70			**************************************							
20864 20866 20868 20870 29 Date 20886 2092: Se 20922 20924 20926 20928	Backfilling Superstructure (incl. roof) Internal Finishes Completion of the Section 6 ction 7 of Works Rising Mains (by Open Excavation) Initial Survey Documents Submission (eg. Pipeline Schedule) Laying Sewer MH6 - MH5 (7m) Construct MH5	11 50 12 0 24 120 10 30	03/07/06 15/07/06 12/09/06 12/09/06 25/10/05 02/11/05 28/04/06 10/05/06	14/07/06 11/09/06 26/09/06 24/03/07 24/03/07 21/11/05 22/03/06 09/05/06 15/06/06	DC0864* DC0868* D004*, DC0848*, DC087 DC0806* DC0922* DC0906*, DC0924 DC0926*	70					•					
20864 20866 20868 20870 29 Date 20866 2092: Se 20922 20924 20926	Backfilling Superstructure (incl. roof) Internal Finishes Completion of the Section 6 ction 7 of Works tising Mains (by Open Excavation) Initial Survey Documents Submission (eg. Pipeline Schedule) Laying Sewer MH6 - MH5 (7m)	11 50 12 0 24 120 10 30 30 20	03/07/06 15/07/06 12/09/06 12/09/06 25/10/05 02/11/05 28/04/06 10/05/06 16/06/06	14/07/06 11/09/06 26/09/06 24/03/07 24/03/07 21/11/05 22/03/06 15/06/06 15/06/06	DC0864* DC0868* DC0868* D004*, DC0848*, DC087 DC0806* DC0922* DC0926* DC0928* DC0928*	70					•					
20864 20866 20868 20870 20 Date 20886 2092 Sewers, F 20924 20924 20926 20928 20930 20936	Backfilling Superstructure (incl. roof) Internal Finishes Completion of the Section 6 ction 7 of Works tising Mains (by Open Excavation) Initial Survey Documents Submission (eg. Pipeline Schedule) Laying Sewer MH6 - MH5 (7m) Construct MH5 Construct MH6 Laying Sewer MH5 - MH4 (32m) Construct MH4	11 50 12 0 12 120 10 30 30 20 17	03/07/06 15/07/06 12/09/06 12/09/06 25/10/05 02/11/05 02/11/06 10/05/06 10/05/06 11/07/06	14/07/06 11/09/06 26/09/06 24/03/07 21/11/05 22/03/06 09/05/06 15/06/06 10/07/06 29/07/06	DC0864* DC0868* DC0868* DC0868* DC0806* DC0922* DC0906*, DC0924 DC0926* DC0928* DC0932*	70					•				*	
20864 20866 20868 20870 29 Date 20866 09: Se wers, F 20922 20924 20926 20926 20930 20930 20930 20938	Backfilling Superstructure (incl. roof) Internal Finishes Completion of the Section 6 ction 7 of Works Rising Mains (by Open Excavation) Initial Survey Documents Submission (eg. Pipeline Schedule) Laying Sewer MH6 - MH5 (7m) Construct MH6 Construct MH6 Laying Sewer MH5 - MH4 (32m) Construct MH4 Laying Sewer MH4 - MH2 (8m)	11 50 12 0 12 120 10 30 30 20 17	03/07/06 15/07/06 12/09/06 12/09/06 25/10/05 02/11/05 28/04/06 10/05/06 10/05/06 11/07/06 31/07/06	14/07/06 11/09/06 26/09/06 24/03/07 24/03/07 21/11/05 22/03/06 09/05/06 15/06/06 15/06/06 29/07/06 09/08/06	DC0864* DC0868* DC0868* DC0868* DC0866* DC0922* DC0926* DC0928* DC0936* DC0936*	70										
20864 20866 20868 20870 20 Date 20886 2092 Sewers, F 20922 20924 20926 20928 20930 20930 20936 20938 20930	Backfilling Superstructure (incl. roof) Internal Finishes Completion of the Section 6 ction 7 of Works Rising Mains (by Open Excavation) Initial Survey Documents Submission (eg. Pipeline Schedule) Laying Sewer MH6 - MH5 (7m) Construct MH6 Laying Sewer MH5 - MH4 (32m) Construct MH4 Laying Sewer MH4 - MH2 (8m) Modify F2	11 50 12 0 12 0 120 10 30 30 20 17 9 5	03/07/06 15/07/06 12/09/06 12/09/06 12/09/06 25/10/05 02/11/05 28/04/06 10/05/06 16/06/06 11/07/06 31/07/06	14/07/06 11/09/06 26/09/06 26/09/06 24/03/07 21/11/05 22/03/06 09/05/06 15/06/06 15/06/06 15/06/06 15/06/06 15/08/06	DC0864* DC0868* D004*, DC0848*, DC087 DC0806* DC0922* DC0926* DC0928* DC0928* DC0928* DC0932* DC0932* DC0938*	70										
0864 0866 0868 0870 y Date 0986 091 Se wers, F 0922 0924 0924 0926 0930 0932 0930 0932 0936 0938 0940	Backfilling Superstructure (incl. roof) Internal Finishes Completion of the Section 6 ction 7 of Works Rising Mains (by Open Excavation) Initial Survey Documents Submission (eg. Pipeline Schedule) Laying Sewer MH6 - MH5 (7m) Construct MH6 Construct MH6 Laying Sewer MH5 - MH4 (32m) Construct MH4 Laying Sewer MH4 - MH2 (8m)	11 50 12 0 12 10 30 30 20 17 9 5	03/07/06 15/07/06 12/09/06 12/09/06 25/10/05 02/11/05 28/04/06 10/05/06 10/05/06 11/07/06 31/07/06 31/07/06	14/07/06 11/09/06 26/09/06 24/03/07 24/03/07 21/11/05 22/03/06 09/05/06 15/06/06 15/06/06 15/06/06 09/08/06 09/08/06	DC0864* DC0868* DC0868* DC0868* DC0866* DC0922* DC0926* DC0928* DC0936* DC0936*	70					•					
0864 0866 0868 0870 y Date 0886 09: Se wers, F 0922 0924 0926 0928 0930 0932 0936 0938 0940 0946	Backfilling Superstructure (incl. roof) Internal Finishes Completion of the Section 6 ction 7 of Works Rising Mains (by Open Excavation) Initial Survey Documents Submission (eg. Pipeline Schedule) Laying Sewer MH6 - MH5 (7m) Construct MH5 Construct MH5 Construct MH6 Laying Sewer MH5 - MH4 (32m) Construct MH4 Laying Sewer MH4 - MH2 (8m) Modify F2 Laying Sewer MH4 - MH3 (8m) Construct MH3 Laying Sewer MH4 - MH3 (8m)	11 50 12 0 12 10 30 30 20 17 9 16 8	03/07/06 15/07/06 12/09/06 12/09/06 12/09/06 12/09/06 02/11/05 28/04/06 10/05/06 10/05/06 11/07/06 31/07/06 10/08/06 29/08/06	14/07/06 11/09/06 26/09/06 26/09/06 24/03/07 24/03/07 22/03/06 09/05/06 15/06/06 15/06/06 15/06/06 09/08/06 09/08/06 09/08/06	DC0864* DC0868* D004*, DC0848*, DC087 DC0806* DC0902* DC0902* DC0928* DC0928* DC0928* DC0938* DC0938* DC0938* DC0938* DC0938* DC0938* DC0938* DC0944*	70					•					
0864 0866 0868 0870 9 Date 08K6 091 Se wers, F 0922 0924 0926 0930 0930 0931 0936 0938	Backfilling Superstructure (incl. roof) Internal Finishes Completion of the Section 6 ction 7 of Works Ising Mains (by Open Excavation) Initial Survey Documents Submission (eg. Pipeline Schedule) Laying Sewer MH6 - MH5 (7m) Construct MH6 Laying Sewer MH5 - MH4 (32m) Construct MH4 Laying Sewer MH4 - MH2 (8m) Modify F2 Laying Sewer MH4 - MH3 (8m) Construct MH3 Laying Sewer MH3 - MH2 (13m) Construct MH3 Laying Sewer MH4 - MH3 (8m)	11 50 12 0 12 120 10 30 30 20 17 9 5 9 16 8	03/07/06 15/07/06 12/09/06 12/09/06 25/10/05 02/11/05 28/04/06 10/05/06 10/05/06 11/07/06 31/07/06 31/07/06 10/08/06 07/09/06	14/07/06 11/09/06 28/09/06 24/03/07 24/03/07 21/11/05 22/03/06 09/05/06 15/06/06 15/06/06 10/07/06 29/07/06 09/08/06 28/08/06 09/08/06 27/09/06	DC0864* DC0868* DC0868* DC0868* DC0868* DC0806* DC0922* DC0926* DC0928* DC0928* DC0932* DC0938* DC0938* DC0938* DC0938* DC0938* DC0942* DC0938* DC0942* DC0936* DC0936* DC0936* DC0936* DC0942* DC0946*	70										
00864 00866 00868 00870 y Date 0091 Se 0092 Se 00924 00924 00926 00932 00932 00932 00946 00942 00946 00948 00948	Backfilling Superstructure (incl. roof) Internal Finishes Completion of the Section 6 ction 7 of Works Rising Mains (by Open Excavation) Initial Survey Documents Submission (eg. Pipeline Schedule) Laying Sewer MH6 - MH5 (7m) Construct MH5 Construct MH6 Laying Sewer MH5 - MH4 (32m) Construct MH4 Laying Sewer MH4 - MH2 (8m) Modify F2 Laying Sewer MH4 - MH3 (8m) Construct MH3 Laying Sewer MH4 - MH3 (8m) Construct MH3 Laying Sewer MH4 - MH3 (8m) Construct MH3 Laying Sewer MH4 - MH2 (13m) Construct MH3 Laying Sewer MH3 - MH2 (13m) Construct MH2 Laying Sewer MH2 - MH1 (8m)	11 50 12 0 12 10 30 30 20 17 9 5 5 9 16 8 7	03/07/06 15/07/06 12/09/06 12/09/06 12/09/06 12/09/06 02/11/05 28/04/06 10/05/06 10/05/06 11/07/06 31/07/06 03/07/06 10/08/06 29/08/06 28/09/06	14/07/06 11/09/06 26/09/06 26/09/06 24/03/07 24/03/07 21/11/05 22/03/06 09/05/06 15/06/06 15/06/06 15/06/06 09/08/06 09/08/06 09/08/06 28/08/06 06/09/06 27/09/06 05/10/06	DC0864* DC0868* DC0868* DC0868* DC0868* DC0806* DC0922* DC0906*, DC0924 DC0926* DC0928* DC0938* DC0938* DC0938* DC0938* DC0944* DC0944* DC0948*	70					•					
0864 0866 0868 0870 y Date 08K6 09: Se 0922 0924 0926 0932 0933 0933 0934 0944 0946 0948 0945 0945 0945	Backfilling Superstructure (incl. roof) Internal Finishes Completion of the Section 6 ction 7 of Works tising Mains (by Open Excavation) Initial Survey Documents Submission (eg. Pipeline Schedule) Laying Sewer MH6 - MH5 (7m) Construct MH5 Construct MH6 Laying Sewer MH5 - MH4 (32m) Construct MH4 Laying Sewer MH4 - MH2 (8m) Modify F2 Laying Sewer MH4 - MH3 (8m) Construct MH3 Laying Sewer MH3 - MH2 (13m) Construct MH3 Laying Sewer MH4 - MH3 (8m) Construct MH3 Laying Sewer MH4 - MH2 (13m) Construct MH3 Laying Sewer MH2 - MH1 (8m) Construct MH2 Laying Sewer MH2 - MH1 (8m)	24 120 100 300 300 177 9 9 166 8 8 177 7 18	03/07/06 15/07/06 12/09/06 12/09/06 12/09/06 12/09/06 02/11/05 28/04/06 10/05/06 10/05/06 11/07/06 31/07/06 10/08/06 29/08/06 07/09/06 07/10/06	14/07/06 11/09/06 26/09/06 26/09/06 24/03/07 24/03/07 22/03/06 09/05/06 15/06/06 15/06/06 15/06/06 15/08/06 09/08/06 28/08/06 27/09/06 27/10/06	DC0864* DC0868* DC0868* DC0868* DC0868* DC0806* DC0922* DC0926* DC0928* DC0928* DC0932* DC0938* DC0938* DC0938* DC0938* DC0938* DC0942* DC0938* DC0942* DC0936* DC0936* DC0936* DC0936* DC0942* DC0946*	70				3	•					
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Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Predecessors		JFMA		JAS			AMJ				
Sewers, F	Rising Mains (by Trenchless)		,		,											e in realization
DC0902	Working pits construction for TL1	20	23/03/06	15/04/06	DC0812, DC0924*	-	-									
DC0906	Laying Sewer MH6 - MH5 (underneath box culvert)	10	17/04/06	27/04/06	DC0902*		1								1	
DC0908	Dismantling & Removal of Equipments (TL1)	15	28/04/06	16/05/06	DC0906*			m								
DC0910	Working pits construction for TL2	20	17/05/06	09/06/06	DC0908*	1		100							1	
DC0912	Laying Rising Mains CH.0+30 - CH.0+25	20	10/06/06	04/07/06	DC0910*	1		-								
DC0914	Dismantling & Removal of Equipments (TL2)	15	05/07/06	21/07/06	DC0912*											
DC0916	Working pits construction for TL3	12	22/07/06	04/08/06	DC0914*											
DC0918	Laying Rising Mains CH.2+19 - CH.2+14	11	05/08/06	17/08/06	DC0916*											
DC0920	Dismantling & Removal of Equipments (TL3)	8	18/08/06	26/08/06	DC0918*				0							
Remainin	g works of P/S & T/H			•												
DC0952	Civil Works for E&M Installation (cable duct)	117	23/02/07	12/07/07	DC0844*	1							b			
DC0954	External Finishes		26/03/07			1					- 1					
DC0956	Roofing Finishes	38	26/03/07	09/05/07	DC0848*						1					
Key Date			1											-		
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External V	Completion of the Section 7	0		27/07/07	D004*, DC0952, DC0954,	-1							•			
DC09K7	, i	0		21101101	D004 , DC0952, DC0954,	4-		Canonina				-	-	-		
3N10/11:	Section 8 of Works			Had Health												
All remair	ning works (Tai Po)															
DC1012	E&M Installation (Pumping Station) (by others)	180	25/03/07	20/09/07	DC0848*	1					1					
DC1014	Testing & commissioning of Pumping Station	0	21/09/07		DC1012, DC1012*	1							4			
DC1016	E&M Installation (Transformer House) (by others)	181	27/09/06	26/03/07	DC0870*	1			1							
			27/03/07		DC1016*	1				2.0000000000000000000000000000000000000	4	•				
	Testing & commissioning of Transformer House	0				- 18	1 1						1	mir .		
DC1018	Testing & commissioning of Transformer House Collection to existing F2	_	22/09/07	04/10/07	DC1014*, DC1032	1 1								_		
DC1018 DC1020		10	22/09/07		POSTER AND THE PROPERTY OF THE								1	Diff.		
DC1018 DC1020 DC1022	Collection to existing F2 Collection of existing sewer to MH1	10	22/09/07	04/10/07	DC1014*	-							1			
DC1018 DC1020 DC1022 DC1024	Collection to existing F2 Collection of existing sewer to MH1 Demolition of existing pump pit	10 10 10	22/09/07 05/10/07	04/10/07 17/10/07	DC1014* DC1020*, DC1022*											
DC1018 DC1020 DC1022 DC1024 DC1026	Collection to existing F2 Collection of existing sewer to MH1 Demolition of existing pump pit Grouting existing sewer/raising mains	10 10 10 33	22/09/07 05/10/07 18/10/07	04/10/07 17/10/07 24/11/07	DC1014* DC1020*, DC1022* DC1024*											
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DC1018 DC1020 DC1022 DC1024 DC1026 DC1028 DC1030 DC1032 DC1032	Collection to existing F2 Collection of existing sewer to MH1 Demolition of existing pump pit Grouting existing sewer/raising mains Demolition of existing boundary wall Boundary Wall construction External Cable duct & Drainage, Catchpit Pavement works	10 10 10 33 10 70 67 60	22/09/07 05/10/07 18/10/07 18/10/07 27/03/07 20/06/07	04/10/07 17/10/07 24/11/07 29/10/07 19/06/07 05/09/07 28/08/07	DC1014* DC1020*, DC1022* DC1024* DC1024* DC0024* DC1030* DC1030*						1			E1		
DC1018 DC1020 DC1022 DC1024 DC1026 DC1028 DC1030 DC1032 DC1032 DC1034 DC1036	Collection to existing F2 Collection of existing sewer to MH1 Demolition of existing pump pit Grouting existing sewer/raising mains Demolition of existing boundary wall Boundary Wall construction External Cable dut & Drainage, Catchpit Pavement works Soft Landscaping works	10 10 10 33 10 70 67 60 35	22/09/07 05/10/07 18/10/07 18/10/07 27/03/07 20/06/07 20/06/07 06/09/07	04/10/07 17/10/07 24/11/07 29/10/07 19/06/07 05/09/07 28/08/07 19/10/07	DC1014* DC1020*, DC1022* DC1024* DC1024* DC1024* DC0848, DC1016* DC1030* DC1030* DC1032*, DC1034									8		
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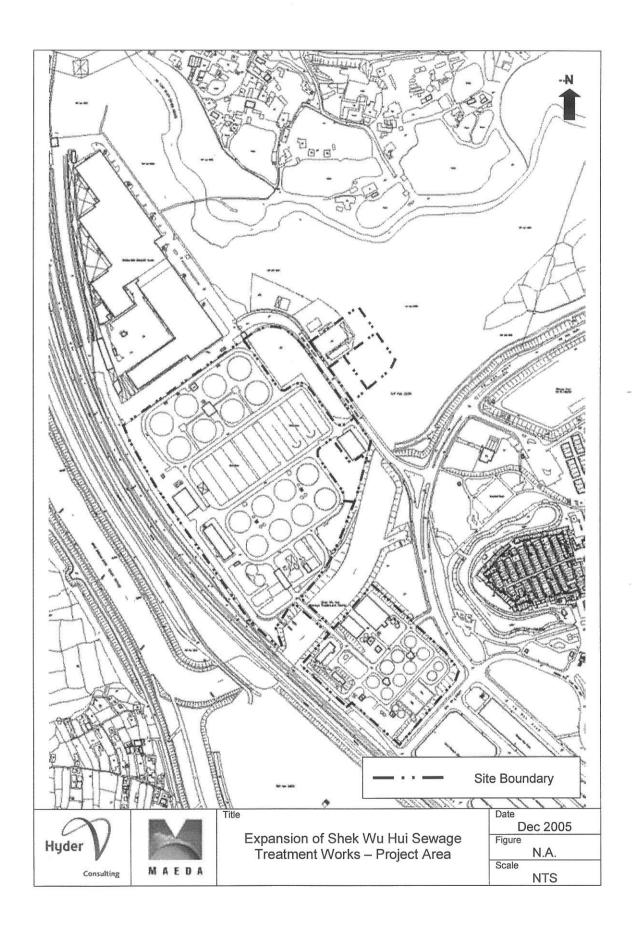


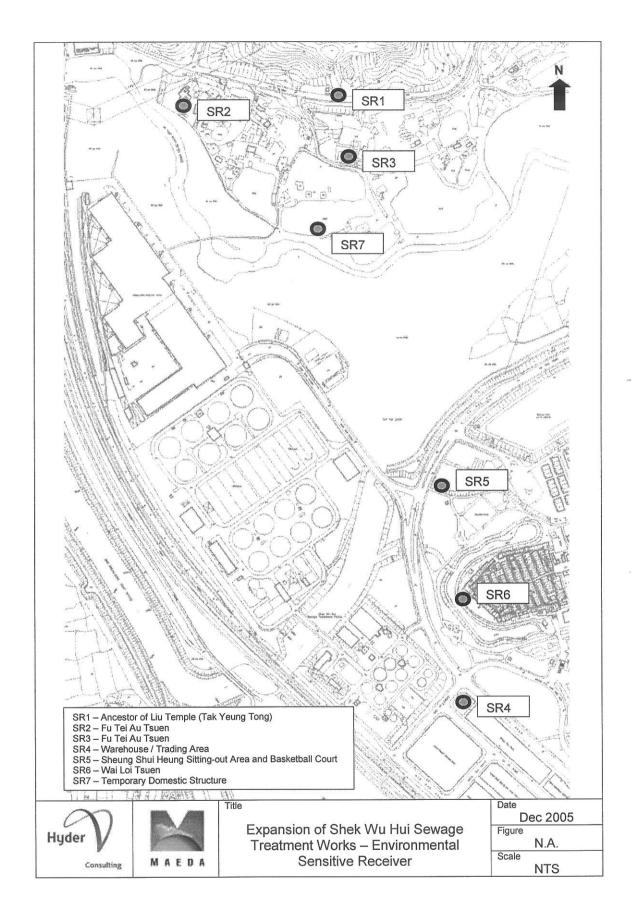
Location of Works

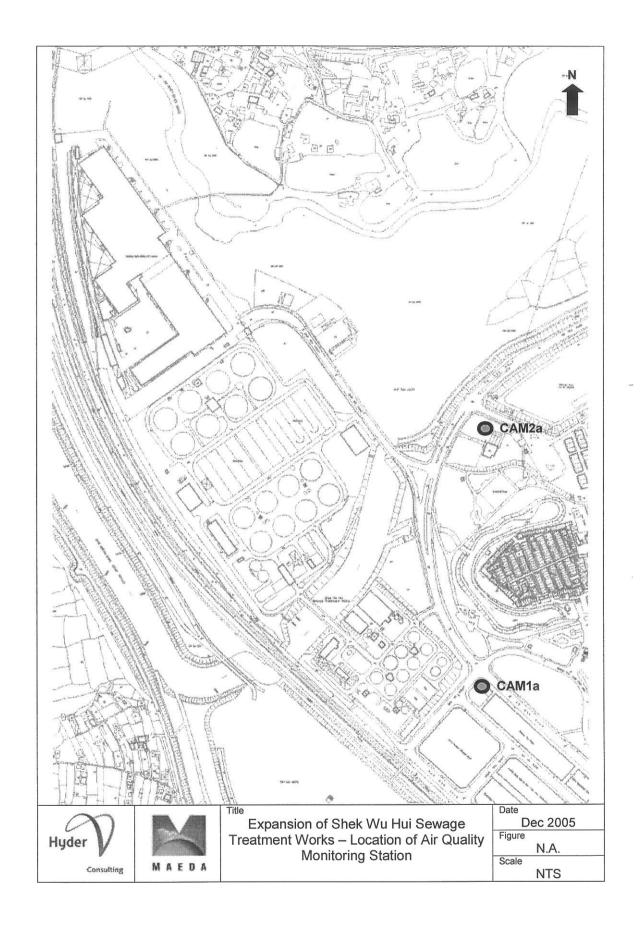


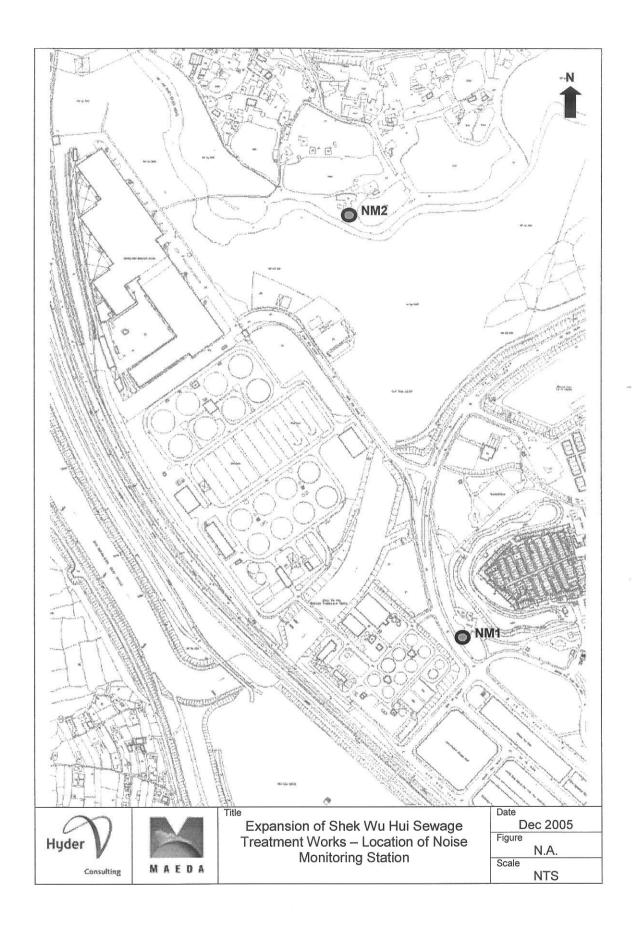


Project Area, Environmental Sensitive Receiver and Monitoring Location











Appendix 5

Environmental Requirement and Implementation Status

IMPLEMENTATIONS STATUS OF MITIGATION MEASURES

Implementation Status for Air Quality Control

PP Ref#	Environmental Protection Measures	Location / Timing	Implementation Agent	Implementation Status	Follow-up Action and Final Outcome
Annex I S1.7.1	Dust mitigation measures stipulated in the Air Pollution Control (construction Dust) Regulation shall be incorporated to control dust emission from the Site. Notice shall be given to the authority prior to commencement of works.	Works sites / during construction period	Contractor	Properly Implemented	N/A

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

Implementation Status for Water Quality Control

PP Ref#	Environmental Protection Measures	Location / Timing	Implementation Agent	Implementation Status	Follow-up Action and Final Outcome
Annex 2 S2.4.4	The practice outlined in Practice Note for Professional Persons on Construction Site Drainage, Professional Person 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.	Works sites / During the construction period	Contractor	Properly Implemented	N/A
Annex 2 S2.4.4	 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 facilitates. 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 maximum flow conditions. Sizes may vary depending upon the flow rate, but for a flow rate of 0.1m³s-¹ a sedimentation basin of 30m³ would be required and for a flow rate of 0.5m³s-¹ the basin would be 150m³. The detailed design of the sand/silt traps will be undertaken by the contractor prior to the commencement of construction. Ideally, construction works should be programmed to minimize 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. 	Works sites / During the construction period	Contractor	Properly Implemented as appropriate	N/A

PP Ref#	Environmental Protection Measures	Location / Timing	Implementation Agent	Implementation Status	Follow-up Action and Final Outcome
Annex 2 S2.4.4	 Construction Runoff and Drainage (Cont'd) 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. 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 when a rainstorm is imminent or forecasted, and 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 fo	Works sites / During the construction period	Contractor	Properly implemented as appropriate	N/A

PP Ref#	Environmental Protection Measures	Location / Timing	Implementation Agent	Implementation Status	Follow-up Action and Final Outcome
Annex 2 S2.4.4	Construction Runoff and Drainage 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.	Works site / During the construction period	Contractor	Properly implemented as appropriate	N/A
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 sited on sealed areas, within bunds of a capacity equal to 100% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching water sensitive receivers nearly.	Works site / During the construction period	Contractor	Properly Implemented as appropriate	N/A
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.	Works site / During the construction period	Contractor	Properly implemented	N/A

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

Implementation Status for Waste Management

	Implementation Agent	Implementation Status	Follow-up Action and Final Outcome
Annex 3 S3.5.1 **Maste Reduction Measures of 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 quality 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. **Minimize over ordering of concrete, mortars and cement grout by	Contractor	Properly implemented as appropriate	N/A

PP Ref#	Environmental Protection Measures	Location / Timing	Implementation Agent	Implementation Status	Follow-up Action and Final Outcome
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, ad 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 wast 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 prepare 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 sites) should be proposed. In order to monitor the disposal of C&D material at landfills and public filling facilities, as appropriate, and to control fly tipping, a tripticket 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. 	Work site / During the construction period	Contractor	Properly Implemented	N/A
Annex 3 S3.5.6	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 site / During the construction period	Contractor	Properly Implemented	N/A

PP Ref#	Environmental Protection Measures	Location / Timing	Implementation Agent	Implementation Status	Follow-up Action and Final Outcome
Annex 3 S3.5.7	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 onsite 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 site / During the construction period	Contractor	Properly Implemented	N/A
Annex 3 S3.5.8	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 computable 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 license wast collector to transport and dispose of the chemical wastes in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Work site / During the construction period	Contractor	Would be implemented at later stages	N/A

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

Implementation Status for Noise Control

PP Ref#	Environmental Protection Measures	Location / Timing	Implementation Agent	Implementation Status	Follow-up Action and Final Outcome
Annex 4 S4.7.1	Use of quiet PME	Work sites / During the construction period	Contractor	Properly Implemented	N/A
Annex 4 S4.7.3	 Good Site Practice Only well-maintained plant should be operated on-site and plant should be services 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 Material stockpiles and other structures should be effectively utilised, wherever practicable, in screening noise from on-site construction activities. 	Work sites / During the construction period	Contractor	Properly Implemented	N/A

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



Appendix 6

Calibration Records

Annex 2 High Volume Air Sampler Calibration Worksheet

Project Title:

Expansion of Shek Wu Hui Sewage Treatment Works

Monitoring Location:

Sewage Pumping Station at j/o San Po Street and Po Wan Road (CAM1a)

Date:

Time:

13:15

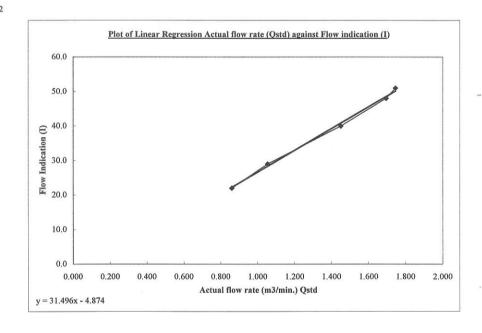
Sampler Model:	GBM2000H1
Calibrator Orifice no.:	517N
Slope (m):	2.00063
Intercept (b):	0.007984
Correction coeff. (r)	0.999944
Serial No.:	0133

$$Flow(corrected) = \sqrt{H \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta}}$$

$$Qstd = \frac{1}{m} \times (\sqrt{H \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta}} - b)$$

Sample no.	Pressure Drop (H), inch	Flow (corrcted), m3/min	Actual flow rate (Qstd), m3/min	Flow indication (I), arbitrary
1	12.3	3.501	1.746	51.0
2	11.6	3.400	1.695	48.0
3	8.5	2.910	1.451	40.0
4	4.5	2.117	1.054	29.0
5	3.0	1.729	0.860	22.0

Correlation Coefficient: 0.9982



Remark Ostd Range 0.6 - 1.7 1HPa = 0.750062 mmHg

Calibrated by:

Kenneth H.C. Choi

Date: 10 / 11 / 05

Checked by:

Adi Lee

Annex 2 High Volume Air Sampler Calibration Worksheet

Project Title:

Expansion of Shek Wu Hui Sewage Treatment Works

Monitoring Location:

Flood Balancing Pumping Station at Po Wan Road near Wai Loi Tsuen (CAM2a))

Date:

10-Nov-05

Time:

10:15

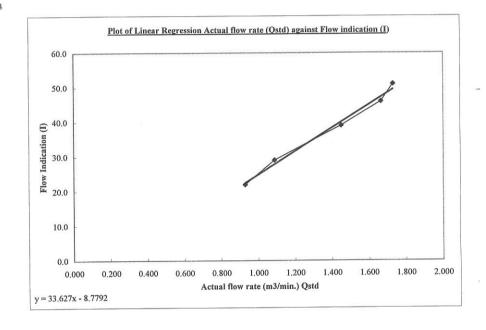
Sampler Model:	GBM2000H1
Calibrator Orifice no.:	517N
Slope (m):	2.00063
Intercept (b):	0.007984
Correction coeff. (r)	0.999944
Serial No.:	0134

$$Flow(corrected) = \sqrt{H \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta}}$$

$$Qstd = \frac{1}{m} \times (\sqrt{H \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta}} - b)$$

Sample no.	Pressure Drop (H), inch	Flow (correted), m3/min	Actual flow rate (Qstd), m3/min	Flow indication (I), arbitrary
1	12.1	3.472	1.732	51.0
2	11.2	3.341	1.666	46.0
2	8.5	2.910	1.451	39.0
4	4.8	2.187	1.089	29.0
- 4	3.5	1.867	0.929	22.0

Correlation Coefficient: 0.9943



Remark Qstd Range 0.6 - 1.7 1HPa = 0.750062 mmHg

Calibrated by:

Kenneth H.C. Choi

Checked by:

Adi Lee

Annex 2 High Volume Air Sampler Calibration Worksheet

Project Title:

Expansion of Shek Wu Hui Sewage Treatment Works

Monitoring Location:

Sewage Pumping Station at j/o San Po Street and Po Wan Road (CAM1a)

Date: Time: 22-Dec-05 9:15

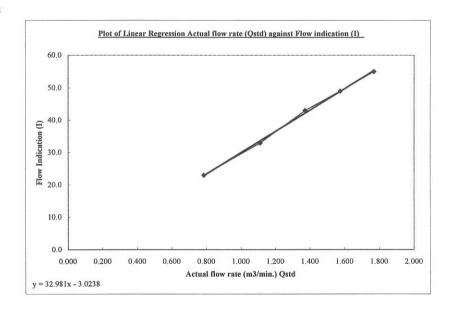
Sampler Model:	GBM2000H1
Calibrator Orifice no.:	517N
Slope (m):	2,00063
Intercept (b):	0.007984
Correction coeff. (r)	0.999944
Serial No.:	1191

$$Flow (corrected) = \sqrt{H \times \frac{Pa}{Pstd} \times \frac{Tstd}{Ta}}$$

0.44	1	(TT.	Pa	Tstd	L
Qsta	$=\frac{1}{m}\times$	VH ×	Pstd	Ta	-0)

Sample no.	Pressure Drop (H), inch	Flow (corrcted), m3/min	Actual flow rate (Qstd), m3/min	Flow indication (I), arbitrary
1	12.1	3.546	1.768	55.0
2	9.6	3.158	1.575	49.0
3	7.3	2.754	1.373	43.0
4	4.8	2.233	1.112	33.0
5	2.4	1.579	0.785	23.0

Correlation Coefficient: 0.9991



Remark Qstd Range 0.6 - 1.7 1HPa = 0.750062 mmHg

Calibrated by:

Choi Hung Cho

Date: 22-Dec-05

Checked by:

Adi Lee



Tisch Environmental, Inc.
145 South Miami Ave.
Village of Cleves, OH 45002
513.467.9000
877.263.7610 toll free
513.467.9009 fax
www.tisch-env.com

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Ma Operator	ay 16, 2009 Tisch	Rootsmeter Orifice I.I		833620 517N	Ta (K) - Pa (mm) -	294 753.62
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA	NA NA NA NA	1.00 1.00 1.00 1.00	1.4090 0.9950 0.8910 0.8490 0.7010	3.2 6.3 7.8 8.6 12.6	2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(ỳ axis)		Va	(x axis) Qa	(y axis)
1.0008 0.9967 0.9946 0.9936 0.9882	0.7103 1.0017 1.1163 1.1703 1.4098	1.4178 2.0051 2.2418 2.3512 2.8356	,	0.9957 0.9916 0.9895 0.9886 0.9832	0.7067 0.9966 1.1106 1.1644 1.4026	0.8833 1.2492 1.3966 1.4648 1.7666
Qstd slo intercep coeffici y axis =	t (b) = ent (r) =	2.02844 -0.02391 0.99999	 Ta)	Qa slope intercept coefficie	c (b) =	1.27017 -0.01489 0.99999

CALCULATIONS

Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta)
Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa] Qa = Va/Time

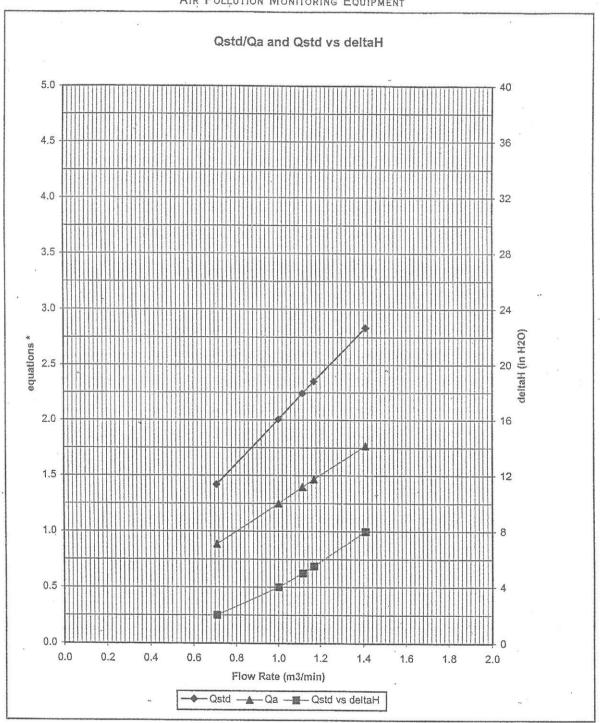
For subsequent flow rate calculations:

Qstd = $1/m\{[SQRT(H2O(Pa/760)(298/Ta))] - b\}$ Qa = $1/m\{[SQRT H2O(Ta/Pa)] - b\}$



Tisch Environmental, Inc.
145 South Miami Ave.
Village of Cleves, OH 45002
513.467.9000
877.263.7610 toll free
513.467.9009 FAX
www.tisch-env.com

AIR POLLUTION MONITORING EQUIPMENT



* y-axis equations:

Qstd series:

$$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$$

Qa series:

$$\sqrt{(\Delta H (Ta/Pa))}$$

#517N



Calibration Certificate

Certificate No.

55747

2 Pages Page

Customer: Hyder Consulting Limited

Address: 47/F., Hopewell Centre, 183 Queen's Road East, Wan Chai, Hong Kong

Order No.: Q52108

Date of receipt

7-Dec-05

Item Tested

Description: Sound Level Calibrator

Manufacturer: B&K

Model

: Type 4231

Serial No.

: 1770806

Test Conditions

Date of Test: 15-Dec-05

 $(23 \pm 3)^{\circ}C$

Supply Voltage : --

Relative Humidity: (50 ± 25) %

Test Specifications

Ambient Temperature:

Calibration check according to customer's requirement.

Calibration procedure:

F21, Z02.

Test Results

All results were within the manufacturer's, IEC 942 Class 1 specification.

The results are shown in the attached page(s).

Test equipment used:

Equipment No.	Cert. No.	<u>Due Date</u>	Traceable to
S014	53024	7-Jul-06	PRC-NIM
S024	S41431	22-May-06	PRC-NIM
S041	53972	26-Aug-06	HKGSCL

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI). The test results apply to the above Unit-Under-Test only

Calibrated by

15-Dec-05

Date:

This Certificate is issued by:

Hong Kong Calibration Ltd.

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong.

Tel: 2425 8801 Fax: 2425 8646

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Calibration Certificate

Certificate No. 55747

Page 2 of 2 Pages

Results:

1. Level Accuracy

UUT Nominal Value (dB)	Measured Value (dB)	IEC 942 Class 1 Spec.
94	94.0	± 0.3 dB
114	114.0	

Uncertainty: $\pm 0.2 \text{ dB}$

2. Frequency

UUT Nominal Value	Measured Value	IEC 942 Class 1 Spec.
1 kHz	1.005 kHz	± 2 %

Uncertainty: $\pm 3.6 \times 10^{-6}$

3. Level Stability: 0.0 dB

IEC 942 Class 1 Spec. : ± 0.1 dB

Uncertainty: ± 0.01 dB

4. Total Harmonic Distortion : < 0.4 %

IEC 942 Class 1 Spec. : < 3 % Uncertainty : ± 2.3 % of reading

Remark: 1. UUT: Unit-Under-Test

- 2. The above measured values are the mean of 3 measurements.
- 3. The uncertainty claimed is for a confidence probability of not less than 95%.
- 4. Atmospheric Pressure: 1 004 hPa.

----- END -----



200 B

Tel: 2927 2606

輝創工程有限公司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No.: C052104

Certificate of Calibration

This is to certify that the equipment

Description: Sound Level Calibrator

Manufacturer: Rion

Model No.: NC-73

Serial No.: 10786708

has been calibrated for the specific items and ranges. The results are shown in the Calibration Report No. C052104.

The equipment is supplied by

Co. Name: Envirotech Services Co.

Address: Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road, Hong Kong

Date of Issue: 2 June 2005

Fax: 2744 8986

The test equipment used for calibration are traceable to the National Standards as specified in this report. This report shall not be reproduced except in full and with prior written approval from this laboratory.

E-mall: callab@suncreation.com

Certificate No.: 2KS051204-1

Page 1 of 2

Calibration of:

Description

Sound Level Meter

Microphone

Manufacture:

Brüel & Kjær

:

4188

Type No. Serial No. 2238 2285726

4100

2462195

Client:

Hyder Consulting Limited 47/F, Hopewell Centre, 183 Queen's Road East, Wanchai, Hong Kong.

Calibration Conditions:

Air Temperature :

23.0 °C

Air Pressure

101.1 **kPa**

Relative Humidity:

61 %

Test Specifications:

The Sound Level Meter has been calibrated in accordance with the requirements as specified in IEC 60651 and IEC 60804 type 1, and vendor specific procedures.

The measurements has been performed with the assistance of:

Brüel & Kjær's Sound Level Meter Calibration System B&K 9600 CAL2238A, Ver.25.10.1999 The standard(s) and instrument(s) used in the calibration are traceable to international standard and are calibrated on a schedule which is adjusted to maintain the required accuracy level.

Test Result:

A list of the performed (sub) tests is stated on page 2 of this certificate. Actual Measurement are documented on worksheet.

Date of Calibration: 08 December, 2005

Calibrated By:

Certificate issued: 09 December, 2005

Approved signatory:

Dai Bin

Jacky Leung

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Unit 706 7/F., Miramar Tower, 132 Nathan Road, Tsim Sha Tsui, Kowloon, Hong Kong香港九龍尖沙咀彌敦道132號美麗華大廈7樓706室

Tel: (852) 2548 7486 Fax: (852) 2858 1168

Spectris Offices in China: Beijing * Chengdu * Guangzhou * Hong Kong * Shanghai * Shenyang Technical Centres in China: Guangzhou * Wuhan * Xian Web Site: www.bksv.com

Certificate No.: 2KS051204-1

Page 2 of 2

Results:

List of performed (sub) test with test status:

"OK" Means the result of the (sub)test is Inside the tolerances stated in the test specifications.

"-" Means the result of the (sub)test is Outside these tolerances.

Test:	Subtest:	Status:
Noise	A	OK
Noise	C	OK
Noise	Lin	OK
Frequency Weighting	A	OK
Frequency Weighting	C	OK
Frequency Weighting	Lin	OK
Level Range Control	1000 Hz	OK
Linearity Range	SPL 10dB 4000 Hz	OK
Linearity Range	SPL 1dB 1000 Hz	OK
Linearity Range	Leq	OK.
Linearity Range	SEL	OK
RMS Detector	CF 3	OK
RMS Detector	CF 5	OK
RMS Detector	CF 10	OK
RMS Detector	Symmetry	OK
Time Weighting	Difference Indication	OK
Time Weighting	Single Burst FAST	OK
Time Weighting	Single Burst SLOW	OK
Time Weighting	Single Burst IMPULSE	OK
Time Weighting	Repetitive Burst	OK
Time Weighting	Peak	OK
Time Averaging		OK
Pulse Range		OK
Overload	SPL	OK
Overload	SEL	OK
Acoustic Response	A	OK
Acoustic Response	Lin	OK

Calibration Equipment:

Brüel & Kjær's Sound	Level Meter Calibration	ration System	B&K 9600 CAL	.2238A, Ver.25.10.1999
Description:	Make & Model:	Serial No.:	Last Cal. Date:	Traceable to:
Digital Multi-meter	Datron 1281	27361	05 Oct, 2005	HKSCL (HOKLAS)
Sine/Noise Generator	B&K 1049	1314978	Test	B&K Conformance
Test Waveform Generator	B&K 5918	1482949	Test	B&K Conformance
Acoustical Calibrator	B&K 4226	1551627	11 Jul, 2005	NPL via B&K (UKAS)

Calibrated By: Date: 08 December, 2005

Checked By: Very Date: 09 December, 2005

Certificate No.: 2KS050510-1

Page 1 of 2

Calibration of:

Description

Sound Level Meter

Microphone

Manufacture:

Brüel & Kiær

2238

4188

Type No. Serial No.

2448529

2461996

Client:

Hyder Consulting Limited 47/F, Hopewell Centre, 183 Queen's Road East, Wanchai, Hong Kong.

Calibration Conditions:

Air Temperature:

23.0 °C

Air Pressure

101.1 **kPa**

Relative Humidity:

61 %

Test Specifications:

The Sound Level Meter has been calibrated in accordance with the requirements as specified in IEC 60651 and IEC 60804 type 1, and vendor specific procedures.

The measurements has been performed with the assistance of:

Brüel & Kjær's Sound Level Meter Calibration System B&K 9600 CAL2238A, Ver.25.10.1999 The standard(s) and instrument(s) used in the calibration are traceable to international standard and are calibrated on a schedule which is adjusted to maintain the required accuracy level.

Test Result:

A list of the performed (sub) tests is stated on page 2 of this certificate. Actual Measurement are documented on worksheet.

Date of Calibration: 30 May, 2005

Certificate issued: 31 May, 2005 Approved signatory:

Calibrated By:

Fox Ng

Jacky Leung

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Certificate No.: 2KS050510-1

Page 2 of 2

Results:

List of performed (sub) test with test status:

"OK" Means the result of the (sub)test is Inside the tolerances stated in the test specifications.

"-" Means the result of the (sub)test is Outside these tolerances.

Test:	Subtest:	Status:
Noise	A.	OK
Noise	C	OK
Noise	Lin	OK
Frequency Weighting	A	OK
Frequency Weighting	C	OK
Frequency Weighting	Lin	OK
Level Range Control	1000 Hz	OK.
Linearity Range	SPL 10dB 4000 Hz	OK
Linearity Range	SPL 1dB 1000 Hz	OK
Linearity Range	Leq	OK
Linearity Range	SEL	OK
RMS Detector	CF3	OK
RMS Detector	CF 5	OK
RMS Detector	CF 10	OK
RMS Detector	Symmetry	OK
Time Weighting	Difference Indication	OK
Time Weighting	Single Burst FAST	OK
Time Weighting	Single Burst SLOW	OK
Time Weighting	Single Burst IMPULSE	OK
Time Weighting	Repetitive Burst	OK
Time Weighting	Peak	OK
Time Averaging		OK
Pulse Range		OK
Overload	SPL	OK
Overload	SEL	OK
Acoustic Response	A	OK
Acoustic Response	Lin	OK

Calibration Equipment:

Brüel & Kjær's Sound	Level Meter Calibi	ation System	B&K 9600 CAL	2238A, Ver.25.10.1999
Description:	Make & Model:	Serial No.:	Last Cal. Date:	Traceable to:
Digital Multi-meter	Datron 1281	27361	28 Sep, 2004	HKSCL (HOKLAS)
Sine/Noise Generator	B&K 1049	1314978	Test	B&K Conformance
Test Waveform Generator	B&K 5918	1482949	Test	B&K Conformance
Acoustical Calibrator	B&K 4226	1551627	22 Jun, 2004	NPL via B&K (UKAS)

Calibrated By: Yox Date: 30 May, 2005

Checked By: July Date: 31 May, 2005



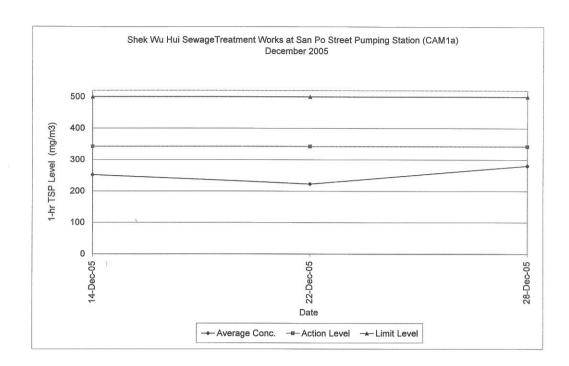
Appendix 7

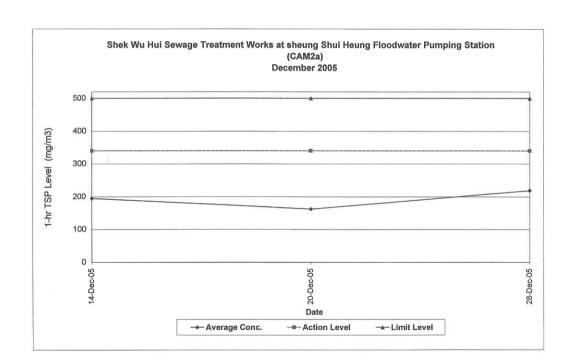
Monitoring Results and Graphical Plots

Shek Wu Hui Sewage Treatment Works

Air Quality Impact Monitoring Results (1-Hour TSP)

Location	Monitoring Date	Weather Conditions	Wind Speed (m/s)	Wind Direction	Temp (oC)	Time (mins)	Flow-I (m3/min)		Flow-avg (m3/min)		Weight (g)	1-hr TSP (ug/m3)	Average 1-Hr TSP (ug/m3)	Action/Limit Levels (ug/m3)	Remark
San Po Street		Cloudy	2.1	S	15.5	64.2	1.550895	1.519145	1.53502	98.55	0.0253	256.7			
Pumping Station	14-Dec-05	Cloudy	2.5	S	15.5	68.4	1.582645	1.519145	1.550895	106.08	0.0266	250.8	252.1		
CAM1a		Cloudy	2	S	15.5	78.0	1.550895	1.519145	1.53502	119.73	0.0298	248.9			
		-	-	-	-	-	-	-		-	-	-			
	20-Dec-05	-	-	-	-	-		-	-	-	-	-] -	342.7/500	HVS was out of order
		-	-	-	-	-	-	-	-	-	-].		
		Cloudy	4	NE	13.6	60.6	1.456105	1.456105	1.456105	88.24	0.0214	242.5			
	22-Dec-05	Cloudy	2	NE	13.6	59.4	1.486426	1.456105	1.471265	87.39	0.0202	231.1	222.7		
		Cloudy	3.5	NE	13.6	59.4	1.486426	1.456105	1.471265	87.39	0.0170	194.5			
	28-Dec-05	Rainy	1.1	S	19.8	60.0	1.334823	1.304503	1.319663	79.18	0.0231	291.7	280.6]	
		Rainy	2.7	S	19.8	58.8	1.304503	1.304503	1.304503	76.70	0.0222	289.4			
		Rainy	3.2	S	19.8	56.4	1.274182	1.243862	1.259022	71.01	0.0185	260.5			
Sheung Shui Heung	5-00/100 (1-00/10)	Cloudy	3	S	17	66.6	1.777714	1.718238	1.747976	116.42	0.0237	203.6			
Floodwater	14-Dec-05	Cloudy	3.2	S	17	69.0	1.569548			109.32	0.0219	200.3	195.3		
Pumping Station		Cloudy	2.7	S	17	67.8	1.896666	1.747976	1.822321	123.55	0.0225	182.1			
CAM2a		Fine	3.7	E	18.7	61.8	1.6885	1.658762	1.673631	103.43	0.0186	179.8			
	20-Dec-05	Fine	3.6	E	18.7	60.0	1.53981	1.53981	1.53981	92.39	0.0146	158.0	162.7	340.2/500	
		Fine	3.5	E	18.7	61.8	1.420858	1.420858	1.420858	87.81	0.0132	150.3			
		Rainy	0.4	S	19.3	58.2	1.658762	1.629024	1.643893	95.67	0.0220	229.9			
	28-Dec-05	Rainy	0.3	S	19.3	58.8	1.599286	1.569548	1.584417	93.16	0.0196	210.4	219.1		
		Rainy	0.5	S	19.3	57.0	1.510072	1.480334	1.495203	85.23	0.0185	217.1			



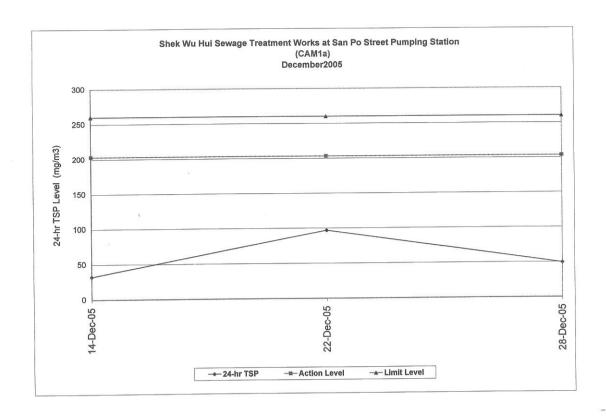


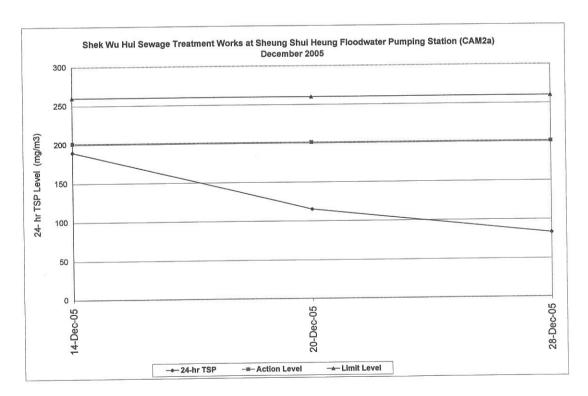
Shek Wu Hui Sewage Treatment Works

Air Quality Impact Monitoring Results (24-Hour TSP)

Location	Monitoring Date	Weather	Wind	Wind	Temp	Timer-I	Timer-F	Time (mins	Flow-I	Flow-F	Volume	Weight-I (g)	Weight-f (g)	Weight. (g)	24-hr TSP	Action/Limit	Remark
		Conditions	Speed	Direction	(oC)				(m³/min)	(m³/min)	(m ³)				(ug/m³)	Levels	
			(m/s)													(ug/m³)	
San Po Street	14-Dec-05	Cloudy	2	S	15.5	450429	452824	1437	1.55	1.55	2228.64	2.8834	2.956	0.0726	32.6		
Pumping Station	20-Dec-05	-	-	-		-	-		-		-	-	-	-	-	203.3/260	HVS was out of order
CAM1a	22-Dec-05	Cloudy	5.2	NE	13.6	352720	355116	1437.6	1.49	1.49	2136.89	2.8767	3.0838	0.2071	96.9	203.3/200	
¥. **	28-Dec-05	Rainy	1.2	S	19.8	355410	357805	1437	1.18	1.06	1613.15	2.8686	2.9483	0.0797	49.4		
Sheung Shui Heung	14-Dec-05	Cloudy	2.5	S	17	481275	483671	1437.6	1.78	1.75	2534.27	2.8644	3.3454	0.481	189.8		
Floodwater	20-Dec-05	Fine	3.5	E	18.7	483978	486373	1437	1.78	1.78	2554.58	2.8839	3.1779	0.294	115.1	201.6/260	
Pumping Station CAM2a	28-Dec-05	Rainy	0.2	S	19.3	488693	491090	1438.2	1.68	1.68	2413.15	2.8689	3.0698	0.2009	83.3		

1





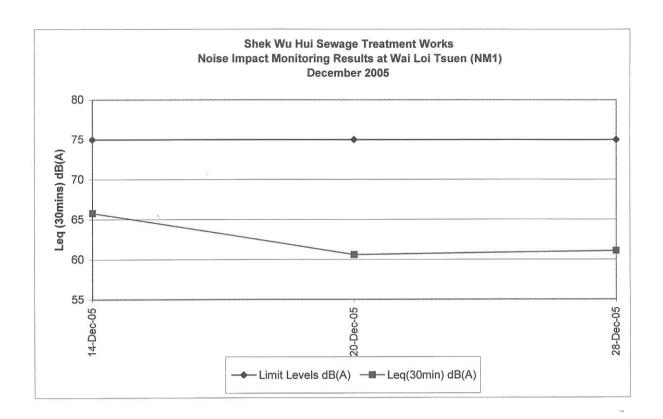
Shek Wu Hui Sewage Treatment Works

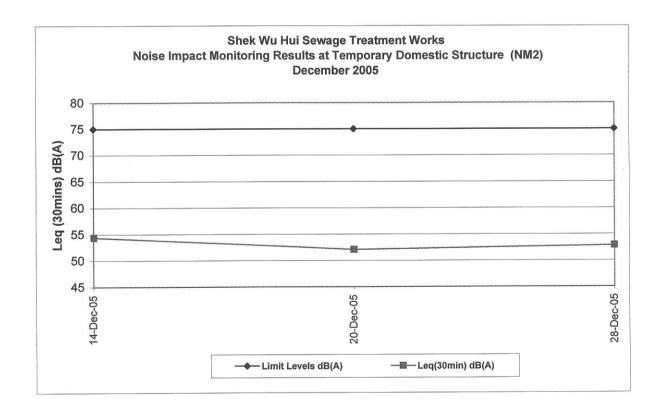
Noise Impact Monitoring Results

	5.4	Weather	Temperature	Wind Speed	Wind	Start Time	End Time	Limit Levels	L _{eq(30min)}	L _{10(30min)}	L _{90(30min)}	Remark
Monitoring Locations	Date		(°C)	(m/s)	Direction			dB(A)	dB(A)	dB(A)	dB(A)	
		Conditions			C	10:00	10:30	75	65.8	67.5	58.5	
Wai Loi Tsuen	14-Dec-05	Cloudy	14.7	0.9	5	10:10	10:40		60.6	63.0	56.5	
NM1	20-Dec-05	Sunny	18.7	2.4		09:45	10:15		61.1	63.0	56.0	
	28-Dec-05	Cloudy	18.7	5	0	11:20	11:50	75	54.4	56.2	50.8	
Temporary Domestic	14-Dec-05	Cloudy	14.7	1	3		11:50	- '-	52.1	54.0	47.3	
Structure	20-Dec-05	Sunny	18.7	2.9	<u>E</u>	11:20	11:15		52.9	54.0	47.3	
NM2	28-Dec-05	Cloudy	18.7	5	S	10:45	11.15		02.0	00		

NM2 28-Dec-05 Cloudy 18.7

Note: A façade correction of 3 dB(A) was applied to each measurement result.







Appendix 8

QA/QC Results and Detection Limit

ALS TECHNICHEM

11:50

03-JAN-2006

Client: Hyder Consulting Ltd
Contact: Mr Coleman Ng
Date of Issue: 30/12/2005

Client Reference:

TSP MONTHLY QUALITY CONTROL REPORT

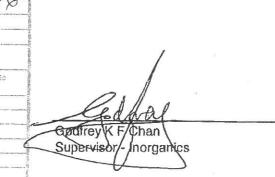


ANALYSIS DESCRIPTION	Date of receipt	Initial Weight of the Lab Blank	Final Weight of the Lab Blank	Weighing Date	Weight Difference
UNIT					g
Limit Of Reporting					0.001
ALS Bach No					
HK47916	14/12/2005	3.6260	3.6261	16/12/2005	<0.0010
HK47994	16/12/2005	3.5382	3.5383	21/12/2005	< 0.0010
HK48045	20/12/2005	3.5382	3.5383	21/12/2005	<0.0010
HK48088	21/12/2005	3.5383	3.5382	23/12/2005	<0.0010
HK48089	22/12/2005	3.5383	3.5382	23/12/2005	<0.0010
HK48121	24/12/2005	3.5383	3.5383	28/12/2005	<0.0010
HK48135	24/12/2005	3.5383	3.5383	28/12/2005	<0.0010
HK48175	28/12/2005	3.5383	3.5384	30/12/2005	<0.0010
HK48176	28/12/2005	3.5383	3.5384	30/12/2005	<0.0010

ALS Environmental

ALS Technichem (HK) Pty Ltd







Appendix 9

Upcoming EM&A Schedule

Expansion of Shek Wu Hui Sewage Treatment Works

Impact Monitoring Programme – January 2006 (Tentative)

Date		Air	Noise	Site Inspection
1 Jan 06	Sun			
2 Jan 06	Mon			
3 Jan 06	Tue	✓	✓	
4 Jan 06	Wed	2		✓
5 Jan 06	Thu			
6 Jan 06	Fri			
7 Jan 06	Sat			
8 Jan 06	Sun			
9 Jan 06	Mon	✓	✓	
10 Jan 06	Tue			
11 Jan 06	Wed			✓
12 Jan 06	Thu			
13 Jan 06	Fri			
14 Jan 06	Sat	✓		
15 Jan 06	Sun			
16 Jan 06	Mon			
17 Jan 06	Tue			
18 Jan 06	Wed			✓
19 Jan 06	Thu			
20 Jan 06	Fri	✓	✓	
21 Jan 06	Sat			
22 Jan 06	Sun			
23 Jan 06	Mon			
24 Jan 06	Tue			
25 Jan 06	Wed			✓
26 Jan 06	Thu	✓	✓	
27 Jan 06	Fri			
28 Jan 06	Sat			
29 Jan 06	Sun			
30 Jan 06	Mon			
31 Jan 06	Tue			

Note:

Shaded area indicates public holiday.

Air - Monitoring of three 1-hour TSP and 24-hour TSP at both CAM1a and CAM2a

Noise - Noise measurements at both CNM1 and CNM2 between 0700 and 1900 on normal weekdays

Expansion of Shek Wu Hui Sewage Treatment Works

Impact Monitoring Programme – February 2006 (Tentative)

Date		Air	Noise	Site Inspection
1 Feb 06	Wed	✓	✓	✓
2 Feb 06	Thu			
3 Feb 06	Fri			
4 Feb 06	Sat	*		
5 Feb 06	Sun			
6 Feb 06	Mon			
7 Feb 06	Tue	✓	✓	
8 Feb 06	Wed			✓
9 Feb 06	Thu			
10 Feb 06	Fri			
11 Feb 06	Sat			
12 Feb 06	Sun			
13 Feb 06	Mon	✓	✓	
14 Feb 06	Tue			
15 Feb 06	Wed			✓
16 Feb 06	Thu			
17 Feb 06	Fri			
18 Feb 06	Sat	✓		
19 Feb 06	Sun			
20 Feb 06	Mon			
21 Feb 06	Tue			
22 Feb 06	Wed			✓
23 Feb 06	Thu			
24 Feb 06	Fri	✓	✓	
25 Feb 06	Sat			
26 Feb 06	Sun			
27 Feb 06	Mon			
28 Feb 06	Tue			

Note:

Shaded area indicates public holiday.

Air - Monitoring of three 1-hour TSP and 24-hour TSP at both CAM1a and CAM2a

Noise - Noise measurements at both CNM1 and CNM2 between 0700 and 1900 on normal weekdays

Expansion of Shek Wu Hui Sewage Treatment Works

Impact Monitoring Programme – March 2006 (Tentative)

Date		Air	Noise	Site Inspection
1 Mar 06	Wed			✓
2 Mar 06	Thu	✓	✓	
3 Mar 06	Fri			
4 Mar 06	Sat	v .		
5 Mar 06	Sun			
6 Mar 06	Mon			
7 Mar 06	Tue			
8 Mar 06	Wed	✓	✓	✓
9 Mar 06	Thu			
10 Mar 06	Fri			
11 Mar 06	Sat			
12 Mar 06	Sun			
13 Mar 06	Mon			
14 Mar 06	Tue	✓	✓	
15 Mar 06	Wed			✓
16 Mar 06	Thu			
17 Mar 06	Fri			
18 Mar 06	Sat			
19 Mar 06	Sun			
20 Mar 06	Mon	✓	✓	
21 Mar 06	Tue			
22 Mar 06	Wed			✓
23 Mar 06	Thu			
24 Mar 06	Fri			
25 Mar 06	Sat	✓		
26 Mar 06	Sun			
27 Mar 06	Mon			
28 Mar 06	Tue			
29 Mar 06	Wed			✓
30 Mar 06	Thu			
31 Mar 06	Fri	✓	✓-	

Note:

Shaded area indicates public holiday.

Air - Monitoring of three 1-hour TSP and 24-hour TSP at both CAM1a and CAM2a

Noise - Noise measurements at both CNM1 and CNM2 between 0700 and 1900 on normal weekdays