

Expansion of Shek Wu Hui Sewage **Treatment Works**

Monthly EM&A Report (January 2006)

February 2006

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Penert no:	EA01284R0052	Date	: February 2006
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Certified by Environmental Team Leader Sharifah Or





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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 January 2006.

Breaches of Action and Limit Levels

Noise

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

1-hr TSP

No non-compliance of action/limit level was recorded at all monitoring stations for 1-hr TSP during the reporting month.

24-hr TSP

No non-compliance of action/limit level was recorded at all monitoring stations for 24-hr TSP during the reporting month.

Complaints Log

During this reporting month, no environmental complaint was received.

Notifications of Any Summons and Successful Prosecutions

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

Reporting Changes

There was no reporting change during January 2006.

Future Key Issues

The construction activities for the coming three months will include the construction of preliminary and permanent mini-piles and permanent H-piles, loading test for the piles, cable diversion and the relocation of 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;
- loading tests for the piles; and
- excavation for trial pits.

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.: W5/1I287/1	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	Approved by EPD on 31 Dec 05	Application No.: RN/00134	25 Sep 2008

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



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 was carried out at Portions 2 and 3. Loading test for the piles was carried out at Portion 3. Excavation of trial pits was conducted at Portion 1.

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 should be measured at the selected air monitoring locations in accordance with the EM&A Manual. These two parameters are aimed to indicate the impacts of construction dust on air quality.

4.1.2 Noise

The construction noise level should be 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, three consecutive $L_{eq(5\text{min})}$ are employed for comparison with the Noise Control Ordinance (NCO) criteria.

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

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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. Appendix 5 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 4-3 should be triggered immediately.

4.2.2 Noise

The Action and Limit Levels for construction noise are defined in Appendix 5. If valid non-compliance of the criteria occurs, actions in accordance with the Event and Action Plan in Table 4-4 should be implemented. If construction works are undertaken during the restricted hours, a construction noise permit under NCO shall be obtained by the Contractor.

4.3 Event and Action Plans

The Event and Action Plans for air quality and noise monitoring are shown in Tables 4-3 and 4-4, respectively.

EVENT	ACTION				
EVENT	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; 	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;	 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. 	



EVENT.	ACTION						
EVENT	ET	IEC	ER	CONTRACTOR			
	 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. 	Supervise Implementation of remedial measures.					
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 frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. If exceedance stops, cease additional monitoring.	Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise ER on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures.	Confirm receipt of notification of exceedance in writing; Notify Contractor; Ensure remedial measures properly implemented.	Take 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.			
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 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	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.			



EVENT.	ACTION					
EVENT	ET	IEC	ER	CONTRACTOR		
	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.		until the exceedance is abated.			

Table 4-3 Event/ Action Plan for Air Quality Monitoring

EVENT	Action				
	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; 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	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.	



EVENT	Action				
	ET	IEC	ER	CONTRACTOR	
	keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring.				

Table 4-4 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 6.

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 6.

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 followed 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 was 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 was collected and returned to the laboratory for drying in a desiccator followed by accurate weighing. Respective 1-hour and 24-hour TSP levels were 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 were the same for 1-hour and 24-hour baseline air quality monitoring except the sampling duration. The specifications were 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., was 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 would be carried out every two months. Five-point calibration would be carried out every six months. All the calibration data were converted into standard temperature and pressure condition.

Orific HVS Calibration Kit model G2523 was used for the calibration of HVSs. Calibration of calibration kit would be carried out annually. Appendix 7 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 was checked using an acoustic calibrator (B&K Type 4230) generating a known sound pressure level at a known frequency. Measurements were 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 would be calibrated annually. Appendix 7 presents the monitoring equipment calibration records.

Table 6-5 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
High Volume Sampler(1)	Anderson	GBM 2000 H1	1191
High Volume Sampler	Anderson	GBM 2000 H1	0134
High Volume Sampler(2)	Anderson	GBM 2000 H1	1101
Orific HVS Calibration Kit	Tisch Environmental	G2523	517N

Note: (1) The HVS was used before 14 January 2006

(2) The HVS was used on and after 14 January 2006

Table 6-5 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 6-6 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 6-6 Air Quality Monitoring Locations

There are two designated noise monitoring locations identified in the EM&A Manual and their 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 6-7 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	-			1
	3-Jan-06	0934-1243	3 X 1 hour	Fine
	9-Jan-06	0915-1216	3 X 1 hour	Cloudy
CAM1a	14-Jan-06	0955-1302	3 X 1 hour	Fine
	20-Jan-06	0906-1213	3 X 1 hour	Cloudy
	26-Jan-06	0925-1224	3 X 1 hour	Cloudy
	3-Jan-06	0946-1255	3 X 1 hour	Fine
	9-Jan-06	0925-1224	3 X 1 hour	Cloudy
CAM2a	14-Jan-06	1006-1305	3 X 1 hour	Fine
	20-Jan-06	0920-1224	3 X 1 hour	Cloudy
	26-Jan-06	0935-1233	3 X 1 hour	Cloudy
24-hr TSP	·	·		
	3-Jan-06	1320-1319	24 hours	Fine
	9-Jan-06	1219-1217	24 hours	Cloudy
CAM1a	14-Jan-06	1350-1350	24 hours	Fine
	20-Jan-06	1217-1217	24 hours	Cloudy
	26-Jan-06	1224-1224	24 hours	Cloudy
	3-Jan-06	1331-1330	24 hours	Fine
	9-Jan-06	1230-1227	24 hours	Cloudy
CAM2a	14-Jan-06	1340-1340	24 hours	Fine
	20-Jan-06	1228-1228	24 hours	Cloudy
	26-Jan-06	1233-1233	24 hours	Cloudy

Table 6-8 Sampling Schedule of Air Quality Monitoring



Station	Date	Time	Duration	Weather Condition
	3-Jan-06	1210-1240	30 minutes	Fine
NIMA	9-Jan-06	0935-1005	30 minutes	Cloudy
NM1	20-Jan-06	1135-1205	30 minutes	Cloudy
	26-Jan-06	1045-1115	30 minutes	Cloudy
	3-Jan-06	1102-1132	30 minutes	Fine
NM2	9-Jan-06	1035-1105	30 minutes	Cloudy
INIVIZ	20-Jan-06	1030-1100	30 minutes	Cloudy
	26-Jan-06	0950-1020	30 minutes	Cloudy

Table 6-9 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 6-10 and detailed in Appendix 8. Graphical plots of the monitoring results are also provided in Appendix 8.

Station	Date	Measured Lev	/el (μg/m³)	Action/Limit L	.evel (μg/m³)
		1-hr TSP	24-hr TSP	1-hr TSP	24-hr TSP
CAM1a		168.2		342.7/500	203.3/260
	3-Jan-06	149.1	37.8		
		118.4			
		248.1		-	
	9-Jan-06	226.0	61.1		
		229.4			
		173.8			
	14-Jan-06	131.2	132.3		
		115.5			
		148.7			
	20-Jan-06	108.2	61.2		
		122.9			



Station	Date	Measured Le	evel (μg/m³)	Action/Limit	Level (μg/m³)
		1-hr TSP	24-hr TSP	1-hr TSP	24-hr TSP
		207.5			
	26-Jan-06	171.7	119.6		
		135.5			
		126.5			
	3-Jan-06	106.7	74.4		
		102.6			
		179.0			
	9-Jan-06	175.9	189.4		
		165.8			
		104.5			
CAM2a	14-Jan-06	78.9	78.0 ⁽¹⁾	340.2/500	201.6/260
		76.6			
		118.6			
	20-Jan-06	76.2	31.6		
		91.4			
		118.9			
	26-Jan-06	106.1	80.1		
		106.6			

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

Table 6-10 Air Quality Monitoring Results

Noise monitoring results are summarised in Table 6-11 and detailed in Appendix 8. Graphical plots of the monitoring results are also provided in Appendix 8. As all monitoring was conducted at free field condition, a facade correction of 3dB(A) was applied to each of the noise measurements.

 $^{^{\}left(1\right)}$ Due to the power failure, the dust monitoring was sampled for 12 hours.



Station	Date	Measu	red Noise Leve	el, dB(A)	Limit Level, dB(A)
		L _{90(30min)}	L _{10(30min)}	L _{eq (30min)}	
	3-Jan-06	53.2	59.4	57.3	
NIM4	9-Jan-06	53.8	59.4	57.3	75
NM1	20-Jan-06	55.9	61.4	59.6	- 75
	26-Jan-06	54.5	62.1	60.0	
	3-Jan-06	52.2	55.4	53.9	
NM2	9-Jan-06	46.7	52.1	50.2	75
INIVI∠	20-Jan-06	50.0	65.1	61.6	- 75
	26-Jan-06	47.3	52.3	50.5	

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

Table 6-11 Noise Monitoring Results

6.7 Factors Which Might Affect the Monitoring Results

Dust from other sources such as roads with the movement of heavy vehicles in the vicinity of the monitoring stations would affect the air quality monitoring results.

6.8 QA/QC Results and Detection Limit

The quality assurance (QA) / quality control (QC) results and detection limit are shown in Appendix 9.

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.

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



During this reporting month, no environmental complaint was received. Cumulative number of environmental complaint is shown in Appendix 10.

7.3 Notifications of Summons and Successful Prosecutions

No notification of summons or successful prosecution was recorded during the reporting month. The cumulative number of notifications of summons and successful prosecutions are shown in Appendix 10.

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 during the reporting period.

7.4.2 Complaints, Summons and Prosecutions

No complaints, summons and prosecutions were recorded during the reporting period.

7.5 Site Inspection

Weekly site inspections were carried out on 4, 11, 18 and 25 January 2006. 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 7-12.

Inspection date	Deficiencies	Recommendation	Status
4-Jan-06	It was observed that silty wheel wash water drained into the existing manhole.	Sandbags or bund should be prepared to block the silty water.	The manhole was sealed as observed on 11 Jan 06.
11-Jan-06	Oil drum without drip tray was observed at Portion 2.	The provision of drip tray was recommended	The oil drum was removed as observed on 18 Jan 06.
18-Jan-06	The gully opposite to Portion 3 was not properly sheltered.	The gully should be sheltered by sand bag to avoid silty water entering into the drainage system.	The gully opposite to Portion 3 was sheltered 21 January 2006.
25-Jan-06	Broken sandbags were observed along the existing	It was recommended to provide proper protection	The Contractor reported that appropriate actions

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Inspection date	Deficiencies	Recommendation	Status
	U-channel at Portion 2 to prevent sand and silt entering into the drains. Removal of broken sand bag is required.	to the existing U channel.	would be implemented to rectify the situation.

Table 7-12 Summaries of Site Inspections and Recommendations

The site audit conducted by IEC was carried out on 25 January 2006. The Contractor has undertaken appropriate actions in responses to the IEC's findings.

There was no outstanding issue or deficiency.

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 19.5 m³; and
- General Refuse 19.5 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 preliminary and permanent mini-piles
- construction of permanent H-piles
- loading test for the piles
- cable diversion
- relocation of FeCl₃ tank

The upcoming EM&A schedule for the future three months is shown in Appendix 12.

10 Comments, Recommendations and Conclusions

EM&A works have been undertaken in January 2006 for the Project based on the requirements set in the EM&A Manual.

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

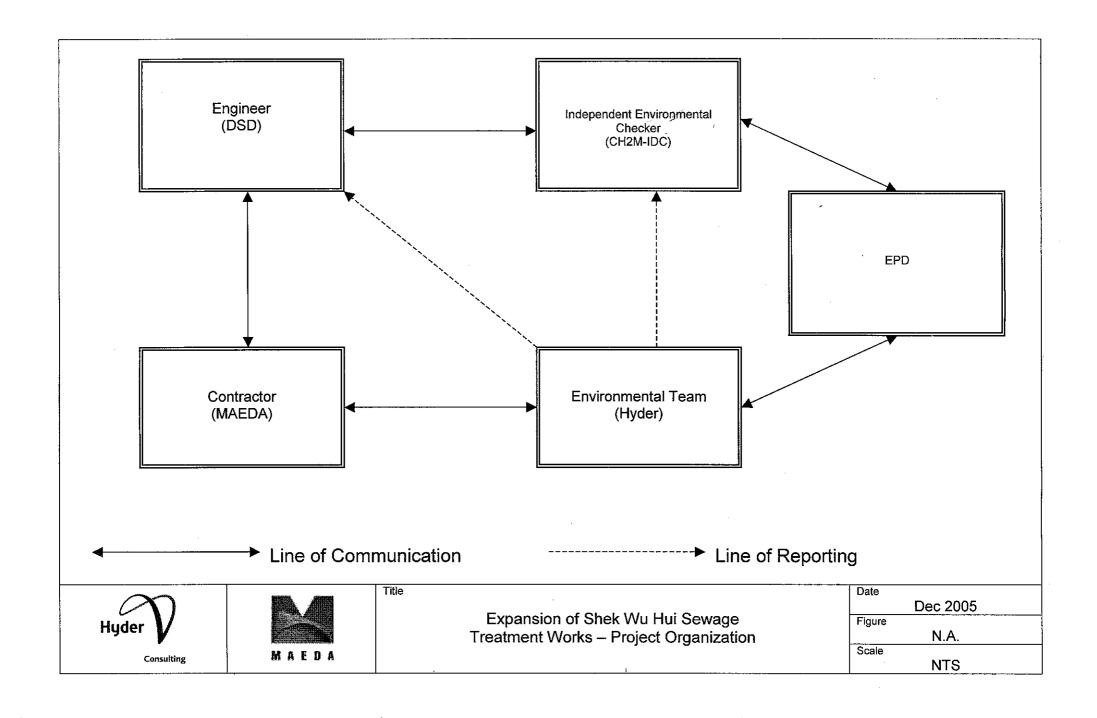
No valid exceedance of Action/Limit Level was recorded during the reporting month.

No compliant, notification of summons or successful prosecution was recorded during the reporting month.

Four 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		Easty Des	D5DA			Sheet	1 of 5								-		\neg
Finish Date	24/09/08		Progress Bar		Contract No. DC/200 EXPANSION OF SHEK			-	Date		•	Revisi	on		Ch	ecked	Approv	red_
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DC0226 DC0228	Pilecaps, 6nos, Grid 4-6/F- Pilecaps, 6nos, Grid 4-6/A		9 02/06/06	13/06/0	06 DC0224* 06 DC0226*			8										
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Substructure DC0518 Pilecaps/lie beams 30 12/10/05 15/11/06 DC0508* DC0518 Concrete structure up to Lev. 7.4mPD 30 16/11/08 20/12/06 DC0516* DC0520 Concrete structure up to roof 30 21/12/08 26/01/07 DC0516, DC0518* DC0520	DC0506 II	nstall temp, retaining wall (sheetpile)																	
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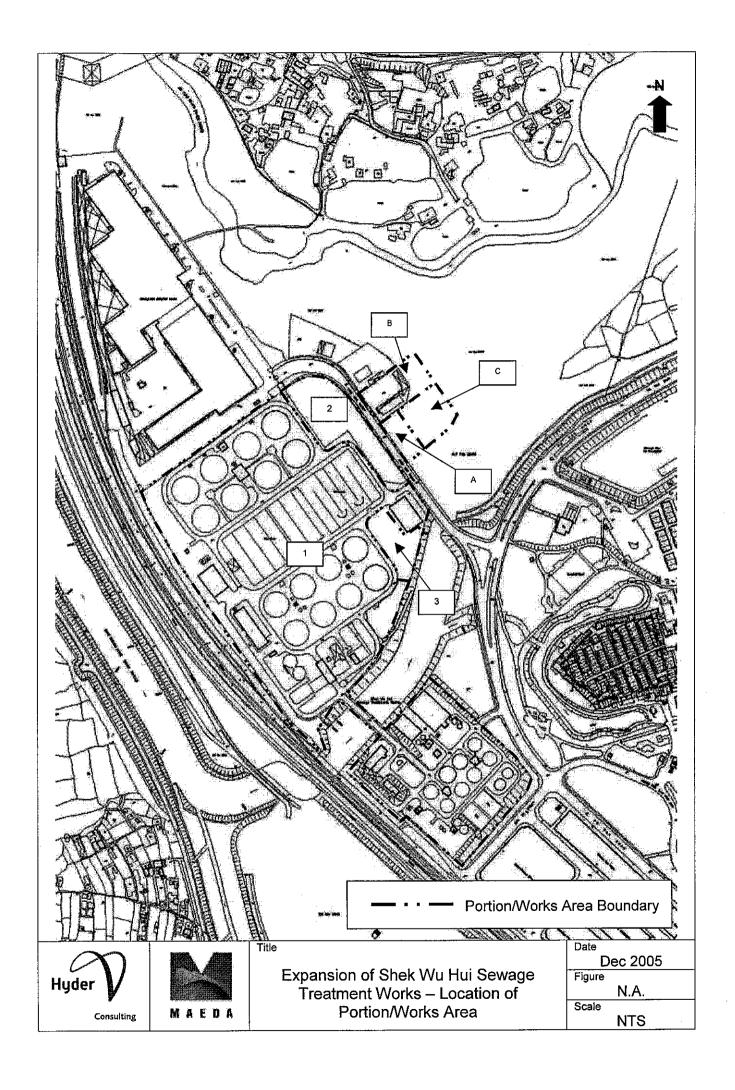
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DC0534 DC0536	Permanent Mini-pile (6nos.) Excavation, blinding, pilecaps Structural works	30 12/10/0 30 16/11/0	6 20/12/08	DC0508*, DC0532 DC0534*		E									l	
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DC0612 I	GI works (pre-drilling & reporting) Preliminary mini piling (1nos) Permanent Mini-pilas (17nos.)	30 31/12/0 100 03/01/0		DC0610* DC0612*												
DC0518 External Wo	Proof load test Utility Diversion priks (FeCI3 tank relocation) Construction new FeCI3 storage tank	30 01/05/0 150 14/11/0 20 13/07/0	5 09/05/06	DC0610*				•••								_
Earthworks DC0630	Relocate the FeCl3 storage tank Demolition of existing FeCl Storage tank Demolition of existing wall, Sludge Press House	30 22/09/0	6 21/09/06 6 27/10/06 6 01/12/06	DC0624*												_
DC0634 DC0636 Superstruct	Excavation & pilecaps, 10 nos. Backfill & compaction ture:	30 02/12/0 30 09/01/0	6 08/01/07 7 12/02/07	DC0632* DC0634*						_						-
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DC0670	Gl works (pre-drilling & reporting) Permanent Mini-piles (6nos.) Proof (oad test (1/2Nos.)	60 14/12/0	5 13/12/05 5 22/02/06 8 05/06/06	DC0666*		1000 E	1880		-							
DC0676 DC0678	Install temp. retaining walls (sheetpile) Excavation Backfill & rockfill underneath pit	30 13/06/0	6 12/07/06 7 17/07/07 7 06/02/08	DC0640*, DC0676							•	6				
DC0682 DC0684 External Wo		0 15/09/0	7 14/09/07													_
DC0658 DC0660	Pipelaying of pipeline No.11 & 12 Connection to existing systems Sump pit construction nditioning: Tank: No.4:		7 02/11/07 7 19/12/07 8 28/03/08	DC0656*			·					0:2	27.27			-
Foundation DC0702 DC0704		60 14/12/0	5 13/12/05 5 22/02/06 6 05/06/06	DC0702*				:							l	
Eartinworks DC0710 DC0712	Install temp. retaining walls (sheetpile) Excavation	30 07/08/0 30 13/06/0	6 12/07/06 7 17/07/07	DC0706* DC0640*, DC0710												T
Structure DC0716	Backfill & rockfill underneath pit Concrete works Installation: handrailing/ladders/mesh etc.	50 18/07/0	7 06/02/08 7 14/09/07 7 02/11/07	DC0712*												
	Sump pit construction Goods (cat.5) Storeroom	44 07/02/0	8 28/03/08	DC0714*		:						•	1783			l
DC0732 Superstruct DC0734	Excavation, rockfill & blinding ture Structures		7 31/07/07 7 28/09/07													ļ
	internal & external finishing Vaste storeroom No:1 & 2	45 29/09/0	7 22/11/07	DC0538, DC0734*							[
DC0742 Superstruc DC0744	Excavation, rockfill & blinding)7 31/07/07)7 28/09/07			•										+
Finishing DC0746 Key Date	Internal & external finishing	45 29/09/0	07 22/11/07	DC0744*								######################################				+
BN07: Sec	Completion of the Section 4 tion 5 of Works nelter to Existing Structure	D	28/03/08	3 D004*, DC0560*, DC0724*,									•			
DC0754	Shelter for UV channel Cover for Inlet Pumping Station Cover for Flume channels	24 13/06/0	07 29/09/07 07 10/07/07 07 11/08/07							-						

Activity ID	Activity Description	Orig Early Dur Start	Finish	Predecessors	DOMID	J FM	20 A M J I	JAS	ON D	J F M	AMJ minimum	promina	OND			JAS
C0758 C0760	Cover for Grit channels Cover for Sedimentation tank No. 1-8	28 11/07/0 50 02/10/0	7 11/08/07 7 29/11/07	7 DC0754* 7 DC0752*									MAKE A			
0762	Cover for Studge Hoarding Tank No. 1-4		7 30/01/08										_			
adwork																
0764	Portion 1		8 28/03/08													
0766 ft Lands	Portion 2&3 scaping Works	86 29/03/	8 10/07/08	3 DC0764*	 -											
																_
0770 0772	Planting works (Portion 2) Hydroseeding		08 12/08/08 08 19/08/08													
and the second	ment Works															
079200	General establishment works	30 20/08/	8 24/09/08	B DC0772*		i										
y Date		1 20 200														
:07K5	Completion of the Section 5	<u> </u>	24/00/05	B 1004*, 100772,									İ			
	g of Ting Kok Road Pumping Static	on No.5	24/04/0													
	ction 6 of Works															
mping S	Station		**************************************	14.7 (1.7 (1.7 (1.7 (1.7 (1.7 (1.7 (1.7 (1		İ				}						
0806	Initial Survey	22 27/09/0	5 24/10/05	5 D004*	-											
0808 0810	Site Clearance + Tree Felling		5 31/10/05 5 07/11/05													
0812	Hoarding Erection Demolition of Existing Boundary Wall (partial)	7 08/11/0	5 15/11/05	DC0810*	0											
0814 0818	G.I./Pre-drilling Prelim Pile (1no) (Pile Installation+Setting up)		05/12/05 05/12/05 05/21/01/06													
0820	Mini Piling (66 nos.)	90 08/12/	15 23/03/06	DC0818*			_									
0822 0830	Pile Load Test (1 nos) (Selection of Piles) Sheetpiling + Wailing + Excavation (ELS)		6 28/04/06 28/06/06			Ī										
0840 0842	Substructure Backfilling	125 29/06/0	6 24/11/06 6 20/11/06				İ									
0844	Superstructure (inc). roof)	75 25/11/0	6 22/02/07	DC0840*, DC0842												
0848 Instorm	Internal Finishes (Plumbing, Cat tadder, etc)	J 26 23/02/0	7 24/03/07	/ DC0844*							-					
0852 0854	Site Clearance+Tree Felling+Tree Transplanting G.I./Pre-drilling		5 05/12/05 5 05/12/05													
0856	Prelim Pile (1no) (Pile Installation+Setting up)	40 06/12/0	5 21/01/06	DC0852*, DC0854*						}					-	
0858 0860	Mini Piling (10 nos.) Pile Load Test (1 nos) (Selection of Piles)		05 23/03/06 06 28/04/06			ļ										
0862	Excavation (Open excavation) (2,05m depth)	26 29/04/0		DC0860*												
0864 0866	Substructure Backfilling	11 03/07/0	6 14/07/08	DC0864*				•_ <u> </u>								
:0868 :0870	Superstructure (incl. roof)		6 11/09/06 6 26/09/06													
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y Date							- 1		Į.			;	1			
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y Date :08K6 09: Sec	Completion of the Section 6	0	24/03/07	7 D004*, DC0848*, DC0870						•	•					
:08K6 09: Sec	Completion of the Section 6 ction 7 of Works Rising Mains (by Open Excavation)		24/03/07	7 D004*, DC0848*, DC0870						•						
08K6 09: Sec wers, R	ction 7 of Works Rising Mains (by Open Excavation)	0								•	•					
09: Se 09: Se wers, R 0922 0924	ction 7 of Works Rising Mains (by Open Excavation) Initial Survey Documents Submission (eg. Pipeline Schedule)	0 0 24 25/10/4 120 02/11/4	05 21/11/05 05 22/03/06	DC0808*	V.					•	•					
:08K6 09: Sec wers, R :0922 :0924 :0926	ction 7 of Works Rising Mains (by Open Excavation) Initial Survey Documents Submission (eg. Pipeline Schedule) Laying Sewer MH8 - MH8 (7m)	24 25/10// 120 02/11// 10 28/04//	05 21/11/05 05 22/03/06 06 09/05/06	5 DC0806* 5 DC0922* 5 DC0926*, DC0924	N/C		8			•	•					
09: Sec wers, R 09:22 09:24 09:26 09:28 09:28	ction 7 of Works Rising Mains: (by Open Excavation) Initial Survey Documents Submission (eg. Pipeline Schedule) Laying Sewer MH8 - MH5 (7m) Construct MH5 Construct MH6	24 25/10/ 120 02/11/ 10 02/14/ 30 10/05/ 30 10/05/	55 21/11/05 55 22/03/06 66 09/05/06 66 15/06/06 66 15/06/06	3 DC0806* 3 DC0922* 5 DC0905*, DC0924 5 DC0926*						•	•					
09: Sec wers, R 09:22 09:24 09:26 09:28 09:30	ction 7 of Works Rising Mains: (by Open Excavation) Initial Survey Documents Submission (eg. Pipeline Schedule) Laying Sewer MH8 - MH5 (7m) Construct MH5 Construct MH6 Laying Sewer MH5 - MH4 (32m)	24 25/10/4 120 02/11/4 10 28/04/4 30 10/05/4 30 10/05/4 20 16/06/6	55 21/11/05 55 22/03/06 66 09/05/06 68 15/06/06 68 15/06/06 69 10/07/06	3 DC0808* 3 DC0922* 5 DC0908*, DC0924 5 DC0926* 3 DC0926* 3 DC0928*			833			•	•					
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Description		Earty	Early	Predecessors	EONID	JEMA	MJI	JAS	OND	JFM	AMJ	07 JJAS	OND	JEM	A M	JA	s i
Description	Dur	Start	Finish			long nguyên											iiii
Ising Mains (by Trenchless)					H												
	1457																
Working pits construction for TL1	20	23/03/06	15/04/08	DC0812, DC0924*	1	-	İ										1
Laying Sewer MH6 - MH5 (underneath box culvert)	10	17/04/06	27/04/06	DC0902*	1												1
Dismantling & Removal of Equipments (TL1)	15	28/04/06	16/05/06	DC0906*	1		•							ĺ			1
Working pits construction for TL2	20	17/05/06	09/06/06	DC0908*	11												١
Laying Rising Mains CH.0+30 - CH.0+25	20	10/06/06	04/07/06	DC0910*	1		854	•									1
Dismantling & Removal of Equipments (TL2)	15	05/07/06	21/07/06	DC0912*				3		-							٦
Working pits construction for TL3	12	22/07/08	04/08/06	DC0914*	1	i I		6 6									l
Laying Rising Mains CH.2+19 - CH.2+14	11	05/08/06	17/08/06	DC0916*	11								[
Dismantling & Removal of Equipments (TL3)	8	18/08/06	26/08/06	DC0918*									1				ŀ
works of P/S & T/H																	T
Civil Works for E&M Installation (cable duct)	117	23/02/07	12/07/07	DC0844*	1					5515.00	i e e						
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Section 8 of Works				errealistrates, were become]								
ing works (Tai Po)	3.635				š i								ļ				
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E&M Installation (Pumping Station) (by others)	180	25/03/07	20/09/07	DC0848*													
				DC1012, DC1012*	1							4	×				
_ · · · · · ·			26/03/07	DC0870*	† [*								
				DC1016*	1	i I				4	•		ł				
			04/10/07		1				l			1	•				Ì
Collection of existing sewer to MH1									i -				•				†
Demolition of existing pump pit	10	05/10/07	17/10/07	DC1020*, DC1022*	1				.				a				
Grouting existing sewer/raising mains				· · · · · · · · · · · · · · · · · · ·	1				l				100				-1
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Boundary Wall construction	_				1	1			l		277.	1					-
External Cable duct & Drainage, Catchpit	67	20/06/07	05/09/07	DC1030*					1		-				1		7
Pavement works	60	20/06/07			1				l		1]		
					1							E	400		1		
Establishment works	_								l						1		
	0			D004*, DC1016, DC1026*,	1				l			l	•		Í		-1
	Laying Sewer MH6 - MH5 (underneath box culvert) Dismantling & Removal of Equipments (TL1) Working pits construction for TL2 Laying Rising Mains CH.0+30 - CH.0+25 Dismantling & Removal of Equipments (TL2) Working pits construction for TL3 Laying Rising Mains CH.2+19 - CH.2+14 Dismantling & Removal of Equipments (TL2) Works of PIS & T/H Civil Works for E&M Installation (cable duct) External Finishes Roofing Finishes orks Completion of the Section 7 Section 8 of Works Ing works (Tat Po): E&M Installation (Pumping Station) (by others) Testing & commissioning of Pumping Station E&M Installation (Transformer House) (by others) Testing & commissioning of Transformer House Collection to existing pump pit Grouting existing sewer to MH1 Demolition of existing pump pit Grouting existing sewer/fraising mains Demolition of existing sewer/fraising mains Demolition of existing boundary wall Boundary Wall construction External Cable duct & Dralnage, Cetchpit Pavement works Soft Landscaping works	Laying Sewer MH6 - 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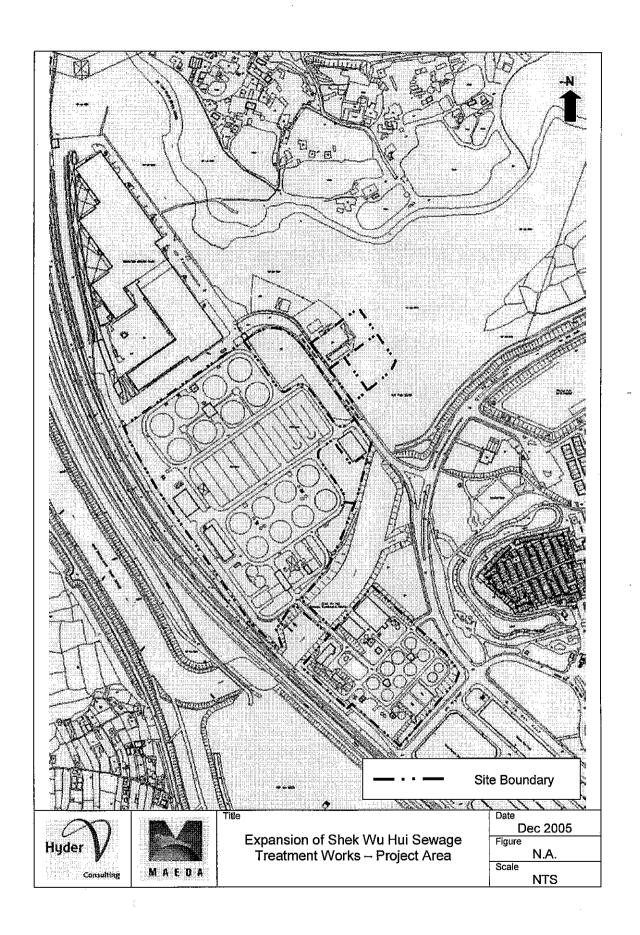


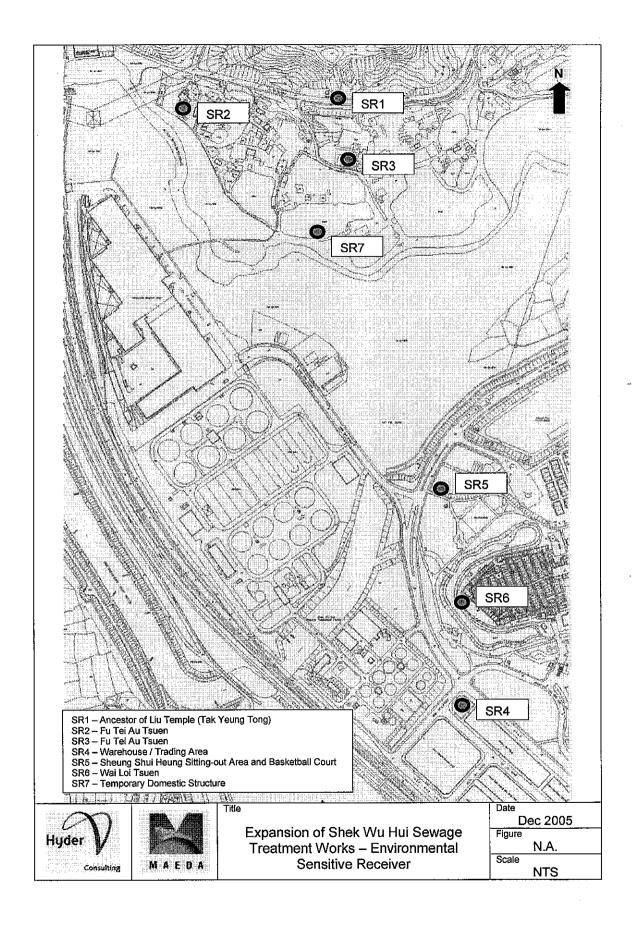
Location of Works

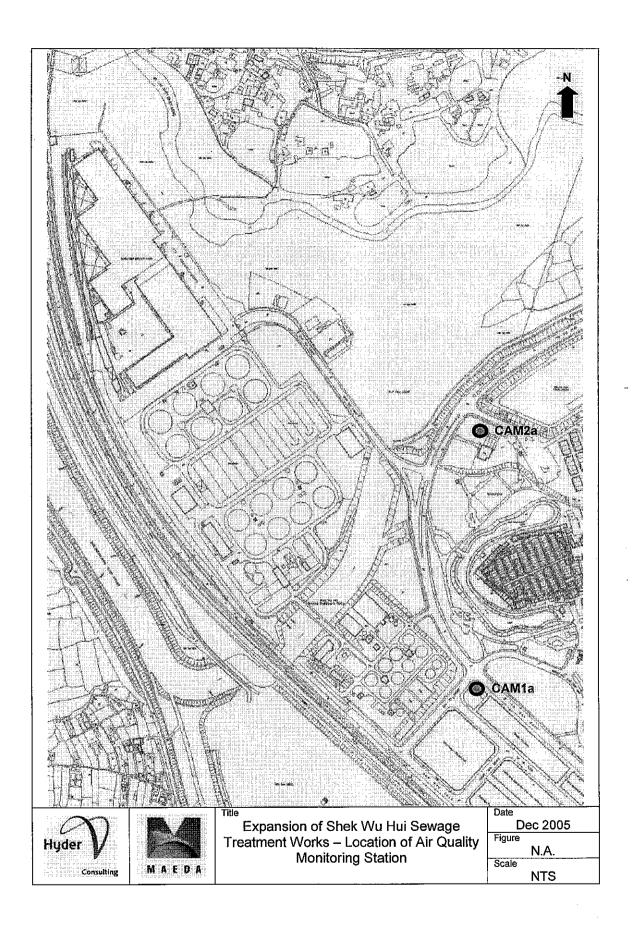


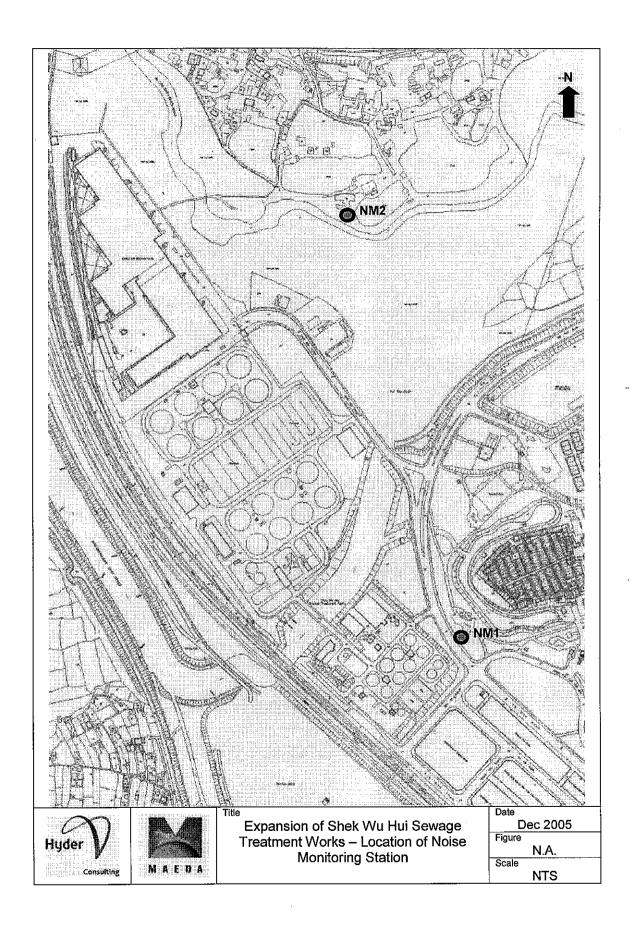


Project Area, Environmental Sensitive Receiver and Monitoring Location











Action and Limit Levels

Monitoring Station ID	1-hour TSP Level in (μg/m³)		24-hour TSP L	evel 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

Action and Limit Levels for Air Quality

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

Action and Limit Levels for Noise



Environmental Requirements 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 <i>Air Pollution Control</i> (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 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

PP Ref#	Environmental Protection Measures	Location / Timing	Implementation Agent	Implementation Status	Follow-up Action and Final Outcome
Annex 3 S3.5.1	 Waste 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 doing careful check before ordering. 	Work site / 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 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)



Calibration Records

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: Time: 10-Nov-05 10:15

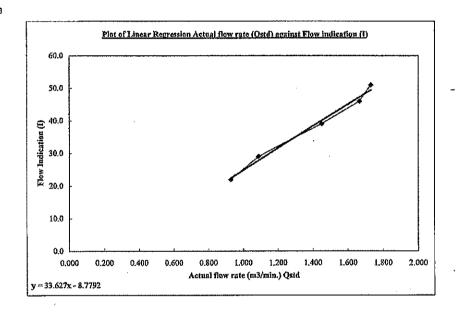
Sampler Model:	GBM2000H1
Calibrator Orifice no.:	517N
Slope (m):	2.00063
Intercept (b):	0.007984
Correction coeff. (r)	0.999944
Serial No.:	0L34 :

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

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

Sample no.	Pressure Drop (H), inch	Flow (correted), m³/min	Actual flow rate (Qstd), m³/min	Flow indication (I), arbitrary
l	12.1	3.472	1.732	51,0
2	11.2	3.341	1,666	46.0
3	8,5	2,910	1,451	39.0
4	4.8	2.187	1.089	29,0
5	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

Date: 10 (11 (15)

Checked by:

Adi Lee

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: 14-Jan-06 09:30

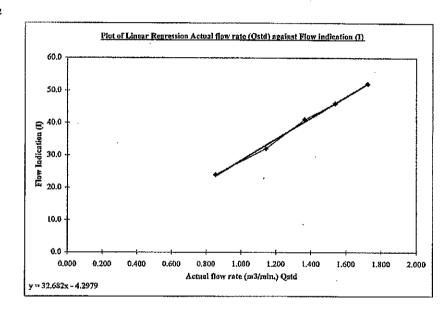
Sampler Model:	GBM2000H1
Calibrator Orifice no.:	517N
Slope (m):	2,00063
Intercept (b):	0.007984
Correction coeff. (r)	0.999944
Serial No.:	1101 -

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

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

Sample no.	Pressure Drop (H), inch	Flow (correted), m³/min	Actual flow rate (Qstd), m/min	Flow indication (I), arbitrary
<u> </u>	11.8	3.458	1.724	52.0
2	9,4	3.086	1,539	46.0
3	7.4	2.738	1.365	41.0
4	5.2	2,295	1.143	32.0
5	2.9	1,714	0.853	24.0

Correlation Coefficient: 0.9982



Remark Qstd Range 0.6 - 1.7 1HPa = 0.750062 mmHg

Calibrated by:

Checked by:

Adi Lee

Date: 14-01-06

Date: 15 (166

High Volume Air Sampler Calibration Worksheet

Expansion of Shek Wu Hui Sewage Treatment Works

Project Title: Monitoring Location:

Sewage Pumping Station at j/o San Po Street and Pe Wan Road (CAM1a) 22-Dec-05

Date:

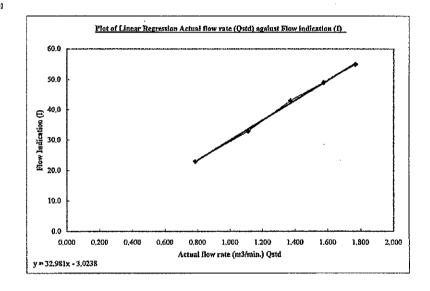
9:15

Time:

Sampler Model:	GBM2000H1
Calibrator Orifice no.:	517N
Slope (m):	2.00063
Intercept (b):	0.007984
Correction coeff. (r)	0.999944
Serial No.:	1191 .

Sample no.	Pressure Drop (H), inch	Flow (correted), 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:



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

Operator		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 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	(y 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
Ostd slop intercept coefficie	t (b) =	2.02844 -0.02391 0.99999		Qa slope intercept coefficie	t (b) =	1.27017 -0.01489 0.99999
y axis =	SQRT [H20 (1	Pa/760) (298/	ra)]	y axis =	SQRT [H20 (1	Ca/Pa)]

CALCULATIONS

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

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

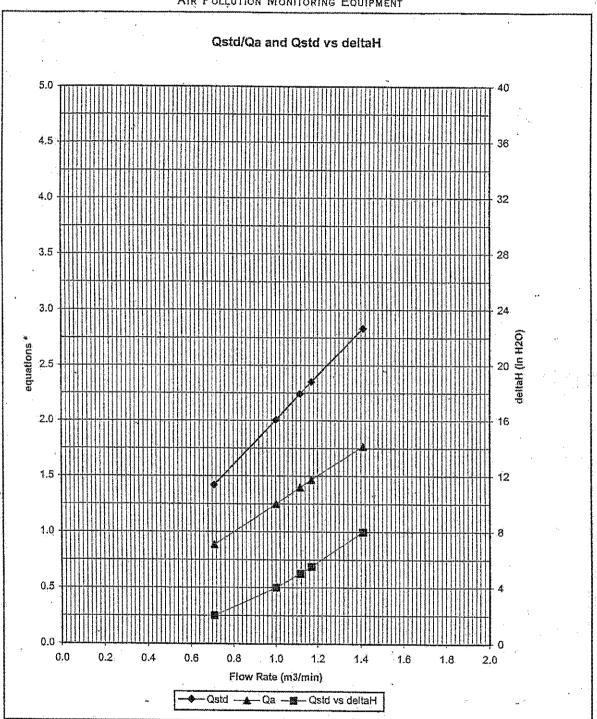
For subsequent flow rate calculations:

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



TISCH ENVIRONMENTAL, INC. 145 SOUTH MIAM! AVE. VILLAGE OF CLEVES, OH 45002 513.467.9000 877.263.7610 TOLL FREE 513.467.9009 FAX WWW.TISCH-ENV.COM





* y-axis equations:

Ostd 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

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 ± 3)°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-Jui-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

Approved 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 -----

Certificate No.: 2KS051204-1

2 Page 1 of

Calibration of:

Description :

Sound Level Meter

Microphone

Manufacture:

Brüel & Kjær

4188

Type No.

2238

2285726 Serial No.

2462195

Client:

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

Calibration Conditions:

Air Temperature:

°C 23.0

Air Pressure

101.1 k₽a

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

Certificate issued: 09 December, 2005 Approved signatory:

Calibrated By:

Dai Bin

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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 爾 敦 遵 132 號 美 麗 華 大 厦 7 楼 706 室 Tel: (852) 2548 7486 Fax: (852) 2858 1168

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:

Description System B&K 9600 CAL2238A Ver 25 10 1999

Bruel & Kjær's Sound	react inferer carrol	anon aystem	DKK 9000 CAL	12230F1, VCI.23.10.1777
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: Down Row Date: 08 December, 2005

Checked By: Very Date: 09 December, 2005

Certificate No.: 2KS050510-1

2 Page 1 of

Calibration of:

Description

Sound Level Meter

Microphone

Manufacture:

Brüel & Kjær

Type No.

2238

4188

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

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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 1 3 2 號 美 麗 華 大 廋 7 樓 7 0 6 室

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

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	С	OK
Noise	Lin	OK
Frequency Weighting	A	OK
Frequency Weighting	C	OK
Frequency Weighting	Lîn	OK
Level Range Control	1 000 H z	. 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	Α	OK
Acoustic Response	Lin	OK

Calibration Equipment:

Brüel & Kjær's Sound	Level Meter Calibr	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: /ox /J
Date: 30 May, 2005

Checked By: July Date: 31 May, 2005

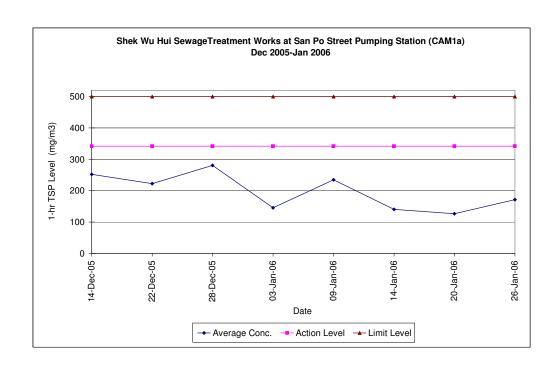


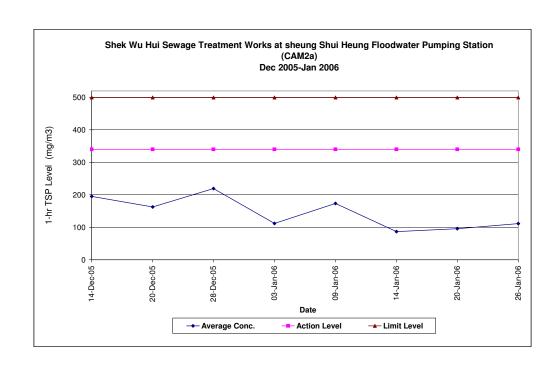
Monitoring Results and Graphical Plots

Shek Wu Hui Sewage Treatment Works

Air Quality Impact Monitoring Results (1-Hour TSP)

Location	Monitoring Date	Weather Conditions	Wind Speed with Direction (m/s)	Temp (oC)	Timer-I	Timer-F	Time (mins)	Flow-I (CFM/ Inches)	Flow-F (CFM/ Inches)	(m3/min)	(m3/min)	(m3/min)	Volume (m3)	Weight-I (g)	Weight-f (g)	Weight-diff. (g)	1-hr TSP (mg/m3)	Average 1-Hr Ts (ug/m3)	Action/Limit Levels (ug/m3)	Remark
San Po Street		Sunny	1.4NE	15	357805	357900	57.0	36	35	1.1832206	1.15290015	1.1680604	66.58	2.8782	2.8894	0.0112	168.2			
Pumping Station	03-Jan-06	Sunny	1.4NE	15	357900	357997	58.2	37	36	1.2135411	1.18322064	1.19838089	69.75	2.8668	2.8772	0.0104	149.1	145.3		
CAM1A		Sunny	1.4NE	15	357997	358098 360595	60.6	37	36	1.2135411	1.18322064	1.19838089	72.62	2.8515	2.8601	0.0086	118.4			
	09-Jan-06	Cloudy	0.5NE 0.5NE	14 14	360497 360595	360595	58.8 57.6	37 37	37	1.2135411	1.21354113	1.21354113	71.36 69.90	3.5609 3.5574	3.5786 3.5732	0.0177 0.0158	248.1 226.0	234.5		
	09-341-06	Cloudy	0.5NE	14	360691	360785	56.4	38	37	1.2438616	1.21354113	1.22870137	69.30	3.5547	3.5706	0.0159	229.4	234.3		
		Fine	0.5NE	14	413620	413721	60.6	32	32	1.1106389	1.11063888	1.11063888	67.30	2.8721	2.8838	0.0139	173.8	 		
	14-Jan-06	Fine	0.7N	14	413721	413818	58.2	33	32	1.1412368	1.11063888	1.12593783	65.53	2.8590	2.8676	0.0086	131.2	140.2	342.7/500	
	14 041 00	Fine	0.7N	14	413818	413918	60.0	33	32	1.1412368	1.11063888	1.12593783	67.56	2.8482	2.8560	0.0078	115.5	1-10.2	012.77000	
		Cloudy	1.0NF	20	416312	416407	57.0	34	33	1.1718346	1.14123677	1.15653571	65.92	2.843	2.8528	0.0078	148.7			
	20-Jan-06	Cloudy	1.0NE	20	416407	416511	62.4	33	32	1.1412368	1.11063888	1.12593783	70.26	2.8525	2.8601	0.0076	108.2	126.6		
		Cloudy	1.0NE	20	416511	416605	56.4	33	31	1.1412368	1.080041	1.11063888	62.64	2.8527	2.8604	0.0077	122.9	1		
		Cloudy	0.8N	16	418999	419098	59.4	32	31	1.1106389	1.080041	1.09533994	65.06	2.8768	2.8903	0.0135	207.5			
	26-Jan-06	Cloudy	0.8N	16	419098	419195	58.2	32	32	1.1106389	1.11063888	1.11063888	64.64	2.8487	2.8598	0.0111	171.7	171.6		
		Cloudy	0.8N	16	419195	419288	55.8	32	32	1.1106389	1.11063888	1.11063888	61.97	2.8735	2.8819	0.0084	135.5	1		
Sheung Shui Heung		Sunny	1.8NE	15	493118	493216	58.8	41	40	1.4803343	1.45059625	1.46546525	86.17	2.8306	2.8415	0.0109	126.5			
Floodwater	03-Jan-05	Sunny	1.8NE	15	493216	493330	68.4	41	40	1.4803343	1.45059625	1.46546525	100.24	2.8680	2.8787	0.0107	106.7	111.9		
Pumping Station		Sunny	1.8NE	15	493330	493432	61.2	41	40	1.4803343	1.45059625	1.46546525	89.69	2.8657	2.8749	0.0092	102.6	1		
CAM2a		Cloudy	1.5NE	14	495834	495929	57.0	40	40	1.4505962	1.45059625	1.45059625	82.68	3.5451	3.5599	0.0148	179.0			
	09-Jan-06	Cloudy	1.5NE	14	495929	496027	58.8	40	40	1.4505962	1.45059625	1.45059625	85.30	3.5667	3.5817	0.0150	175.9	173.6		
		Cloudy	1.5NE	14	496027	496124	58.2	40	40	1.4505962	1.45059625	1.45059625	84.42	3.5536	3.5676	0.0140	165.8			
		Fine	1.8NE	14	498519	498618	59.4	40	40	1.4505962	1.45059625	1.45059625	86.17	2.8544	2.8634	0.0090	104.5	l l		
	14-Jan-06	Fine	1.8NE	14	498618	498717	59.4	40	40	1.4505962	1.45059625	1.45059625	86.17	2.8372	2.8440	0.0068	78.9	86.7	340/500	
		Fine	1.8NE	14	498717	498816	59.4	40	40	1.4505962	1.45059625	1.45059625	86.17	2.8548	2.8614	0.0066	76.6			
		Cloudy	0.5NE	20	500083	500178	57.0	31	31	1.1829542	1.18295417	1.18295417	67.43	2.8699	2.8779	0.0080	118.6			
	20-Jan-06	Cloudy	0.5NE	20	500178	500276	58.8	33	32	1.2424302	1.21269218	1.22756119	72.18	2.8606	2.8661	0.0055	76.2	95.4		
		Cloudy	0.5NE	20	500276	500375	59.4	32	31	1.2126922	1.18295417	1.19782318	71.15	2.8552	2.8617	0.0065	91.4	L		ļ
	00 1 00	Cloudy	1.5N	17	502771	502868	58.2	34	34	1.2721682	1.2721682	1.2721682	74.04	2.8448	2.8536	0.0088	118.9			
	26-Jan-06	Cloudy	1.5N 1.5N	17	502868 502968	502968 503062	60.0	34	34	1.2721682	1.2721682	1.2721682	76.33 70.91	2.8897 2.8602	2.8978 2.8679	0.0081 0.0077	106.1 108.6	111.2		
		Cloudy	1.5N	17	502968	503062	56.4	34	33	1.2721682	1.24243019	1.25/29919	70.91	2.8602	2.8679	0.0077	108.6			

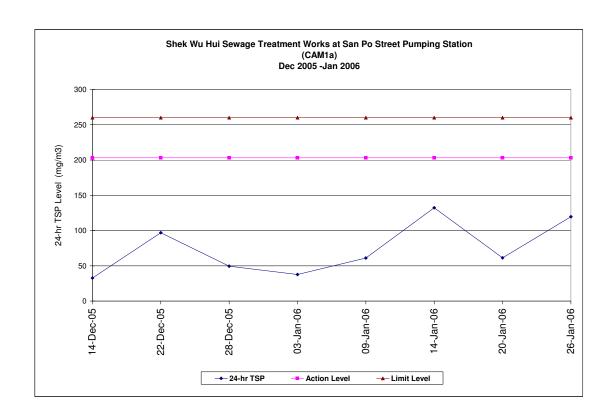


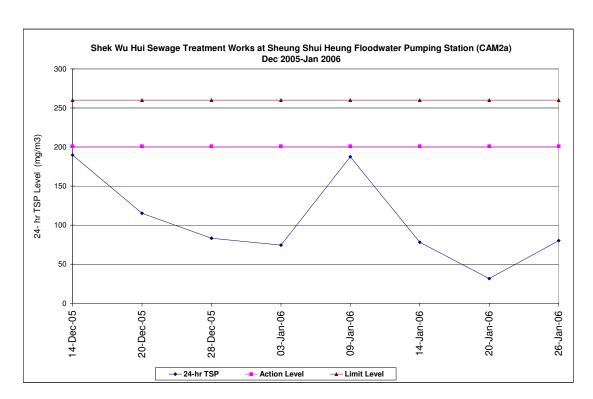


Shek Wu Hui Sewage Treatment Works

Air Quality Impact Monitoring Results (24-Hour TSP)

Location	Monitoring Date	Weather	Wind Speed	Temp	Pressure	Timer-I	Timer-F	Time (mins)	Flow-I	Flow-F	Flow-I	Flow-F	Flow-avg	Volume	Weight-I (g)	Weight-f (g)	Weight-diff. (g)	24-hr TSP	Action/Limit	Remark
		Conditions	with Direction	(oX)	(mmHg)				(CFM/	(CFM/	(m³/min)	(m ³ /min)	(m ³ /min)	(m ³)				(ug/m³)	Levels	
			(m/s)						Inches)	Inches)									(ug/m³)	
San Po Street	03-Jan-06	Sunny	1.4NE	15	762.9	358098	360497	1439.4	36	36	1.18	1.18	1.18	1703.13	2.8743	2.9386	0.0643	37.8		
Pumping Station	09-Jan-06	Cloudy	0.5NE	14	766.3	360785	363180	1437	37	37	1.21	1.21	1.21	1743.86	3.5608	3.6674	0.1066	61.1		
CAM1a	14-Jan-06	Fine	0.7N	14	762.1	413918	416312	1436.4	33	32	1.14	1.11	1.13	1617.30	2.8557	3.0697	0.214	132.3	203/260	
-	20-Jan-06	Cloudy	1.0NE	20	760	416605	418998	1435.8	34	33	1.17	1.14	1.16	1660.55	2.842	2.9437	0.1017	61.2		
	26-Jan-06	Cloudy	0.8N	16	767.1	419288	421681	1435.8	32	32	1.11	1.11	1.11	1594.66	2.8562	3.0469	0.1907	119.6		
Sheung Shui Heung	03-Jan-06	Sunny	1.8NE	15	762.9	493432	495832	1440	41	41	1.48	1.48	1.48	2131.68	2.8894	3.0481	0.1587	74.4		
Floodwater	09-Jan-06	Cloudy	1.5NE	14	766.3	496124	498518	1436.4	41	40	1.48	1.45	1.47	2104.99	3.5612	3.9599	0.3987	189.4		
Pumping Station	14-Jan-06	Fine	1.8NE	14	762.1	498816	500081	759	40	40	1.45	1.45	1.45	1101.00	2.8415	2.9274	0.0859	78.0	201/260	
CAM2a	20-Jan-06	Cloudy	0.5NE	20	760	500375	502770	1437	33	32	1.24	1.21	1.23	1764.01	2.8543	2.91	0.0557	31.6		
	26-Jan-06	Cloudy	1.5NE	17	767.1	503062	505455	1435.8	34	33	1.27	1.24	1.26	1805.23	2.8614	3.006	0.1446	80.1		



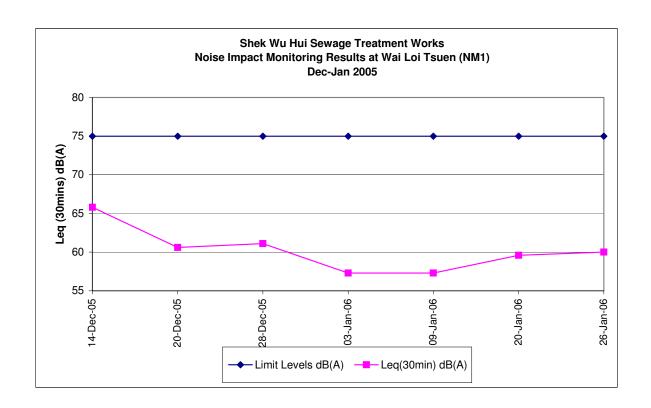


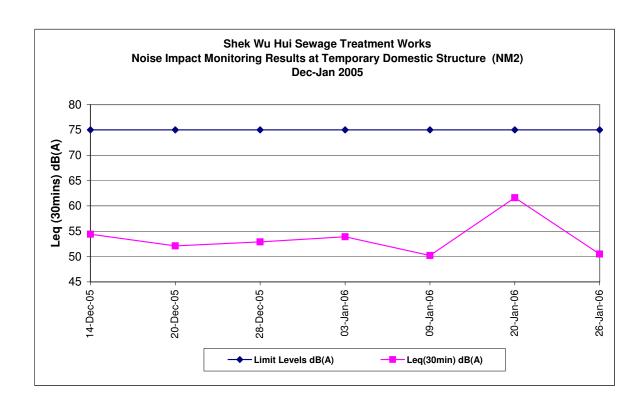
Shek Wu Hui Sewage Treatment Works

Noise Impact Monitoring Results

Monitoring Locations	Date	Weather	Temperature	Wind Speed	Wind	Start Time	End Time	Limit Levels	L _{eq(30min)}	L _{10(30min)}	L _{90(30min)}	Remark
		Conditions	(°C)	(m/s)	Direction			dB(A)	dB(A)	dB(A)	dB(A)	
Wai Loi Tsuen	03-Jan-06	Sunny	21.4	1.4	NE	12:10	12:40	75	57.3	59.4	53.2	
NM1	09-Jan-06	Cloudy	14	0.5	NE	09:35	10:05	75	57.3	59.4	53.8	
	20-Jan-06	Cloudy	20	1	N	11:35	12:05	75	59.6	61.4	55.9	
	26-Jan-06	Cloudy	16	0.8	N	10:45	11:15	75	60.0	62.1	54.5	
Temporary Domestic	03-Jan-06	Sunny	21.1	1.8	NE	11:02	11:32	75	53.9	55.4	52.2	
Structure	09-Jan-06	Cloudy	14	1.5	NE	10:35	11:05	75	50.2	52.1	46.7	
NM2	20-Jan-06	Cloudy	20	0.5	N	10:30	11:00	75	61.6	65.1	50.0	
	26-Jan-06	Cloudy	17	1.5	N	09:50	10:20	75	50.5	52.3	47.3	

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







QA/QC Results and Detection Limit

18:21

MONTHLY SUMMARY QC REPORT

HYDER CONSULTING LTD

Mr Tony Nip Contact:

Date of Issue: 2/2/2006

Client Reference:

Client:

		Total Suspended Particulate								
ANALYS	SIS DESCRIPTION	Initial Weight	Final Weight	Weighing Date	Total Suspended Particulates					
,	UNIT	(gram)	(gram)		. (gram)					
SAMPLE DI	ESCRIPTION									
HK48451	LAB BLANK	3.5383	3.5384	05/01/2006	<0.0010					
HK48489	LAB BLANK	3.5583	3.5580	06/01/2006	<0.0010					
HK48605	LAB BLANK	3.5344	3.5345	10/01/2006	<0.0010					
HK48622	LAB BLANK	3.5580	3.5583	12/01/2006	<0.0010					
HK48747	LAB BLANK	3.5344	3.5345	16/01/2006	<0.0010					
HK48755	LAB BLANK	3.5344	3.5343	17/01/2006	<0.0010					
HK48910	LAB BLANK	3.5344	3.5345	23/01/2006	<0.0010					
HK48940	LAB BLANK	3.3697	3,3696	24/01/2006	<0.0010					

Laboratory Manager - Hong Kong



Cumulative Statistics of Complaint, Notification of Summons and Successful Prosecution

Reporting	Numbe	er Received in	the Reporting	Month	Cumulative Number				
Month	Complaint	Notification of Summon	Successful Prosecution	EPD Site Inspection Record	Complaint	Notification of Summon	Successful Prosecution	EPD Site Inspection Record	
January 2006	0	0	0	0	0	0	0	1 (Yellow Ticket)	

Cumulative Number of Environmental Complaint



Upcoming EM&A Schedule

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			
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

Expansion of Shek Wu Hui Sewage Treatment Works

Impact Monitoring Programme – April 2006 (Tentative)

Date		Air	Noise	Site Inspection
01-Apr-06	Sat	✓	✓	
02-Apr-06	Sun			
03-Apr-06	Mon			
04-Apr-06	Tue			
05-Apr-06	Wed			
06-Apr-06	Thu			✓
07-Apr-06	Fri	✓	✓	
08-Apr-06	Sat			
09-Apr-06	Sun			
10-Apr-06	Mon			
11-Apr-06	Tue			
12-Apr-06	Wed			✓
13-Apr-06	Thu	✓	✓	
14-Apr-06	Fri			
15-Apr-06	Sat			
16-Apr-06	Sun			
17-Apr-06	Mon			
18-Apr-06	Tue			
19-Apr-06	Wed	✓	✓	✓
20-Apr-06	Thu			
21-Apr-06	Fri			
22-Apr-06	Sat			
23-Apr-06	Sun			
24-Apr-06	Mon			
25-Apr-06	Tue	✓	✓	
26-Apr-06	Wed			✓
27-Apr-06	Thu			
28-Apr-06	Fri			
29-Apr-06	Sat			
30-Apr-06	Sun			

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