

Expansion of Shek Wu Hui Sewage Treatment Works

Eleventh Quarterly EM&A Report (June 08 – August 08)

September 2008

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Hyder Consulting Ltd

COI Number 126012

47th Floor, Hopewell Centre, 183 Queens Road East, Wanchai, Hong Kong

Tel: +852 2911 2233 Fax: +852 2805 5028

www.hyderconsulting.com





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Eleventh Quarterly EM&A Report (June 08 – August 08)

Author:

Adrien Guiheux

Checker:

Selina Leung

Approver:

Alexi Bhanja

Report no:

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Date:

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Certified by Environmental Team Leader
Alexi Bhanja

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 between June 2008 and August 2008.

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 period.

1-hr and 24-hr TSP

An action-level exceedance has been measured from the first of the three 1-hr TSP measurements on 13 June 2008. The scheduled consecutive monitoring from 14.20-15.20 & 15.20-16.20 have no action level exceedance.

The repeat measurements stated in the EM&A Event/Action Plan were not applicable, as consecutive monitoring had already been carried out under the scheduled program. In addition the scheduled Air Quality monitoring from 19 June is also below the action level.

It is not considered that the action-level exceedance is project related for the following reasons:

close to the monitoring station (within 6 to 8m distance), it was observed that
construction activities by China Light Power (CLP) were ongoing at the
same time as the exceedance was recorded. These works included cable
laying with sporadic opening of a trench, which is a potential dust generating
operation.

It is considered that the exceedance was caused by nearby offsite (non-project) construction activities and not by activities carried out under this contract.

Complaints Log

During this reporting period, no environmental complaint was received.

Notifications of Any Summons and Successful Prosecutions

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

Reporting Changes



Due to adverse weather conditions and a mechanical failure of the HVAS at monitoring station CAM 1a the monitoring in the month of June 2008 is not completely in line with original schedule. For Noise Monitoring, 24 hr air monitoring and 1 hr air monitoring the frequency of monitoring at the beginning of June is outside that stipulated in the EM&A Manual (Table 2.3 of section 2.6 and section 5.6).

Explanations for this and follow-up actions, which were undertaken, are detailed in section 6.5 and in the tables in Appendix 12.

Parameter	Monitoring location	Monitoring dates	
1-hr TSP monitoring	San Po Street Pumping Station (CAM1a)	3 June, 7 June*, <i>12 June</i> , 13 June, 19 June, 25 June, 30 June	
	Sheung Shui Heung Floodwater Pumping Station (CAM2a)	3 June, 7 June*, <i>12 June</i> , 13 June, 19 June, 25 June, 30 June	
24-hr TSP monitoring	San Po Street Pumping Station (CAM1a)	3 June, 7 June*, <i>12 June</i> ***, 13 June***, <i>16 June</i> , 19 June, 25 June, 30 June	
	Sheung Shui Heung Floodwater Pumping Station (CAM2a)	3 June, 7 June*, <i>12 June</i> , 13 June, 19 June, 25 June, 30 June	
Noise monitoring	San Po Street Pumping Station (CAM1a)	3 June, 13 June**, 19 June, 25 June**, 27 <i>June</i> , 30 June	
	Sheung Shui Heung Floodwater Pumping Station (CAM2a)	3 June, 13 June**, 19 June, 25 June**, 27 June, 30 June	

Note: Dates in Italic refer to additional monitoring

Due to timer failure at monitoring station CAM 1a the monitoring in the month of August 2008 is not completely in line with original schedule. For 24 hr air monitoring the frequency of monitoring at the middle of August is outside that stipulated in the EM&A Manual (Table 2.3 of section 2.6 and section 5.6).

However, the total number of the monitoring events for this month were arranged to meet those specified in the original schedule in order to meet the requirements stipulated in the EM&A Manual.

Parameter	Monitoring location	Monitoring dates
24-hr TSP monitoring	San Po Street Pumping Station (CAM1a)	4 August, 9 August, 15 August*, 19 August, 21 August, 27 August

Note: Dates in Italic refer to additional monitoring

Future Key Issues

The construction works are to be substantially completed in September 2008. As a consequence, no construction activities are expected in November 2008.

The construction activities for the coming two months will include pipe works, installation of cat ladders, roofing and finishing works, structural steelwork with FRP covers, roadwork, cable ducts and cable drawpits and landscaping work.

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^{*}Black Rainstorm Warning Signal

^{**}Heavy rainfall

^{***}No Results due to power failure

^{*}Timer Failure



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 HILL Hong Kong Limited (formerly known as 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	Ben Yip	2594 7461
Engineer's Representative		Freddie Tsang	2594 7459
Contractor - Maeda Site Agent		George Cheung	9268 1918
ET - Hyder ET Leader		Alexi Bhanja	2911 2916
IEC – CH2M HILL	IEC	Y.T. Tang (designated)	3105 8686

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 Quarter

Works undertaken during the reporting period included:

- Excavation and backfilling
- Temporary work including installation of waling and struts
- Manhole/Chamber construction
- Pipe laying
- Installation of FRP covers
- Finishing work
- Road Works; and
- Cable Ducts and Cable Drawpits.

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	End of Project
Notification was made to EPD pursuant to Section 3(1) of the Air Pollution Control (Construction Dust) Regulation (Form NA was submitted)	22 Sep 2005	N/A	N/A	End of Project
Registration as a chemical waste producer	26 Sep 2005	M NOV 2005	WPN: 5213- 624-M2446-06	End of Project



Permit/Licence	Application Date	Date of issue	Ref. No.	Valid Until
Effluent Discharge Licence	11 Nov 2005	20 Dec 2005	Licence No.: W5/1I287/1	19 Dec 2010
Application for Exemption Account for Disposal of Construction Waste	12 Dec 2005	Approved by EPD on 31 Dec 2005	Application No.: RN/00134	25 Sep 2008
Construction Noise Permit	15 Nov 2007	29 Nov 2007	GW-RN0507-07	31 May 2008

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

3 Environmental Status

3.1 Project and Work 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. It has been subdivided into different Works Areas/Portions as illustrated in Appendix 3. 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.



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. 	



EVENIT	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	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 Graphical Plots of Monitoring Parameters

Graphical plots of the monitoring results are summarized in Appendix 7.

6.2 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.

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 noise monitoring.



An action-level exceedance has been measured from the first of the three 1-hr TSP measurements on 13 June 2008. It is considered that the exceedance was caused by nearby offsite (non-project) construction activities and not by activities carried out under this contract.

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 quarter, no environmental complaint was received. Cumulative number of environmental complaint is shown in Appendix 8.

7.3 Notifications of Summons and Successful Prosecutions

No notification of summons or successful prosecution was recorded during the reporting period. The cumulative number of notifications of summons and successful prosecutions are shown in Appendix 8.

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

7.4.1 Non-compliance of Acton/Limit Level

An action-level exceedance has been measured from the first of the three 1-hr TSP measurements on 13 June 2008. The scheduled consecutive monitoring from 14.20-15.20 & 15.20-16.20 have no action level exceedance.

The repeat measurements stated in the EM&A Event/Action Plan were not applicable, as consecutive monitoring had already been carried out under the scheduled program. In addition the scheduled Air Quality monitoring from 19 June is also below the action level.

It is not considered that the action-level exceedance is project related for the following reasons:

close to the monitoring station (within 6 to 8m distance), it was observed that
construction activities by China Light Power (CLP) were ongoing at the same time
as the exceedance was recorded. These works included cable laying with
sporadic opening of a trench, which is a potential dust generating operation.

It is considered that the exceedance was caused by nearby offsite (non-project) construction activities and not by activities carried out under this contract.

The Contactor, the IEC and the ER have been duly notified of the exceedance.



7.4.2 Complaints, Summons and Prosecutions

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

7.5 Site Inspections

Weekly site inspections have been carried out during the reporting period. 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 7-5.

Inspection Date		Deficiencies		Recommendation		Status	Note / Reminder
4 June 2008	1.	No measures were implemented to prevent muddy water entering public drains.	1.	The Contractor was reminded to seal the gullies to avoid such condition.	1.	During site inspection on 11 June 2008, the gullies had been covered to prevent silty runoff / muddy water entering public drains. (Closed)	N/A
11 June 2008	1.	Stagnant water was observed in a container near the site office. Sand and silt deposit was found into drainage adjacent to Air Blower House.	2.	The Contractor was reminded to remove it to prevent mosquitoes breeding. The Contractor was reminded to remove it as soon as possible.	2.	During site inspection on 18 June 2008, stagnant water has been removed. (Closed) During site inspection on 18 June 2008, drainage near Air Blower House has been cleared. (Closed)	N/A
18 June2008		additional iciencies.	No	recommendations.	N/A		N/A
25 June 2008	2.	Stockpiles of soil were observed near site exit. Stagnant water was observed adjacent to air blower house.	1.	The Contractor was reminded to cover the stockpile with tarpaulin sheet to prevent wash away of soil to enter public road or public drainage. The Contractor was reminded to remove it after rainstorm.	2.	During site inspection on 3 July 2008, the stockpile near site exit was removed. (Closed) During site inspection on 3 July 2008, the stagnant water adjacent to air blower house was cleaned. (Closed)	N/A
3 July 2008	1.	Dust generation was observed after the trucks at site entrance.	1.	The Contractor was reminded to provide water spraying more frequently.	1.	During site inspection on 10 July 2008, Hual Road along the site was observed wet, no dust generation was	N/A



Inspection Date	Deficiencies	Recommendation	Status	Note / Reminder
	site entrance. 2. Accumulated water after rainstorm in recycle bin was observed.	frequently. 2. The Contractor was reminded to remove it after the rainstorm.	observed during the site inspection. (Closed) 2. During site inspection on 16 July 2008, larvicide has been applied to stagnant water to prevent mosquito breeding. (Closed)	
10 July 2008	Silt and mud were observed inside U-channel adjacent to final sedimentation tank and air blower house. Wastewater discharge into public drains was observed during inspection.	The Contractor was requested to remove it promptly. The Contractor was requested to implement proper measures to avoid illegal discharge.	During site inspection on 07 August 2008, silt and mud were still to be removed inside U-channel. The outstanding information will be followed up in next month inspection. During site inspection on 16 July 2008, no more illegal discharge was observed during inspection. (Closed)	N/A
16 July2008	The cover to prevent debris entering gullies near SHT was broken.	The Contractor was reminded to replace it.	During site inspection on 30 July 2008, gullies were properly covered near SHT. (Closed)	N/A
23 July 2008	No additional deficiencies	No recommendations	N/A	N/A
30 July 2008	Stockpile of soil was observed near Air Blower House and SHT. Accumulation of C&D waste was observed near Final	The Contractor was requested to cover it with tarpaulin sheet. The Contractor was requested to cover it promptly. The Contractor was requested to clean it	During site inspection on 07 August 2008, stockpile of soil had been removed from the site. (Closed) During site inspection on 07 August 2008, C&D waste was removed. (Closed) During site inspection on 07	N/A
tank. 3. Oil stai	Oil stain on bare ground was observed near	up and to carry out plant maintenance works at bounded maintenances area.	August 2008, oil stain near SHT was removed. (Closed)	
7 August 2008	Stagnant water was observed at various areas.	The Contractor was reminded to remove it after rainstorms.	The Contractor has taken note of the reminder and removed the stagnant water	N/A



Inspection Date	Deficiencies	Recommendation	Status	Note / Reminder
	various areas. 2. Muddy water was observed inside trench near final sedimentation tank.	it after rainstorms. 2. The Contractor was reminded to treat all wastewater prior to discharge.	immediately. (Closed) 2. The Contractor has taken not of the reminder and taken action immediately. (Closed)	
13 August 2008	Oil bucket was observed at site area adjacent to SHT. Stagnant water was observed at the storage area adjacent to site office.	The Contractor was requested to store it in a proper place. The Contractor was requested to remove it promptly.	During site inspection on 20 August 2008, the oil bucket had been removed from the site. (Closed) During site inspection on 20 August 2008, stagnant water had been properly removed. (Closed)	N/A
20 August2008	Accumulation of general refuse was observed at refuse collection point adjacent to site office. Silty trails were observed at site exit. Dry haul road was observed near site exit. Dry stockpile was observed near Air Blower House.	The Contractor was reminded to clear it more regularly. The Contractor was requested to clean up immediately. The Contractor was requested to provide water spraying more regularly. The Contractor was requested to provide proper cover to all dusty materials.	During site inspection on 29 August 2008, accumulation of general refuse was cleaned. (Closed) During site inspection on 29 August 2008, muddy trails were cleaned up. (Closed) During site inspection on 29 August 2008, no dry haul was observed. (Closed) During site inspection on 29 August 2008, the stockpiles were covered properly. (Closed)	N/A The Contractor was reminded to provide water spraying more regularly.
29 August 2008	No environmental deficiency was observed	No recommendations	N/A	N/A

Table 7-5 Summaries of Site Inspections and Recommendations

EPD carried out a site inspection on 18 July 08 and the Contractor has undertaken appropriate actions in response to the EPD's findings.

8 Waste Management Status

According to the information provided by the Contractor, Table 8-5 shows waste materials were generated during the reporting period.

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Type of Waste	June 08	July 08	August 08
Inert C&D material (m³)	280.21	315.56	217.38
General Refuse (m³)	52	117	19.5
Chemical waste (L)	0	0	0

Table 8-6 The Quantity of Waste Generation

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

9 Comments, Recommendations and Conclusions

EM&A works have been undertaken between June 2008 and August 2008 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.

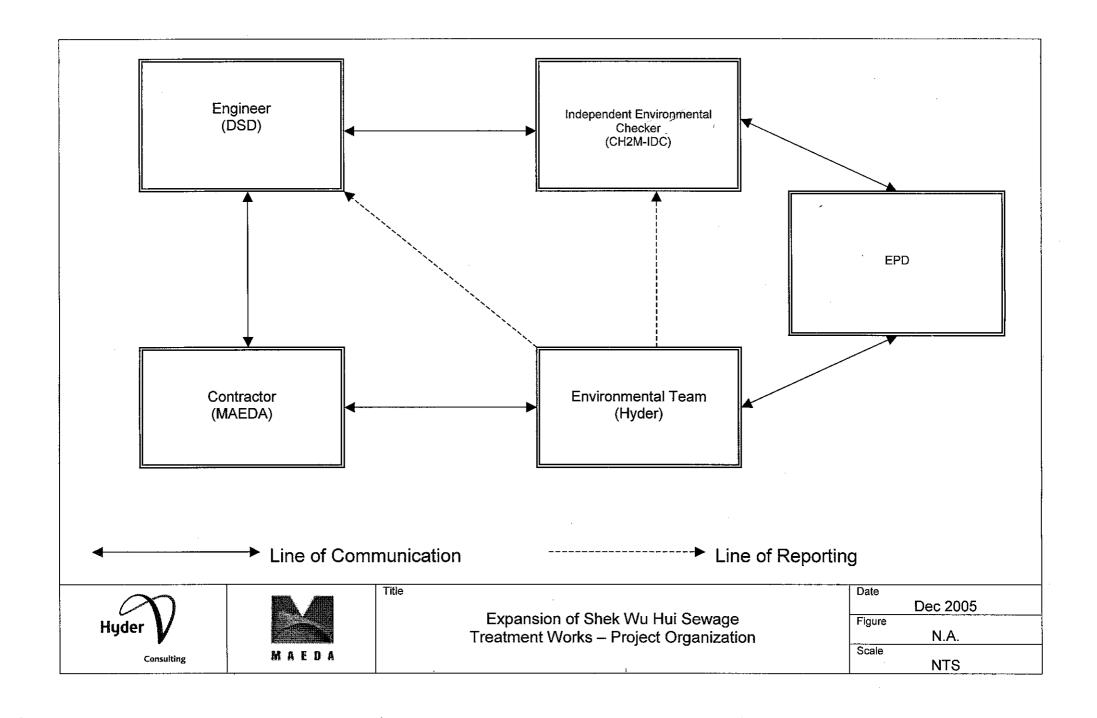
An action-level exceedance has been measured from the first of the three 1-hr TSP measurements on 13 June 2008. It is considered that the exceedance was caused by nearby offsite (non-project) construction activities and not by activities carried out under this contract.

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

The overall EM&A programme is considered efficient during the reporting period and no material and technical changes are considered necessary.



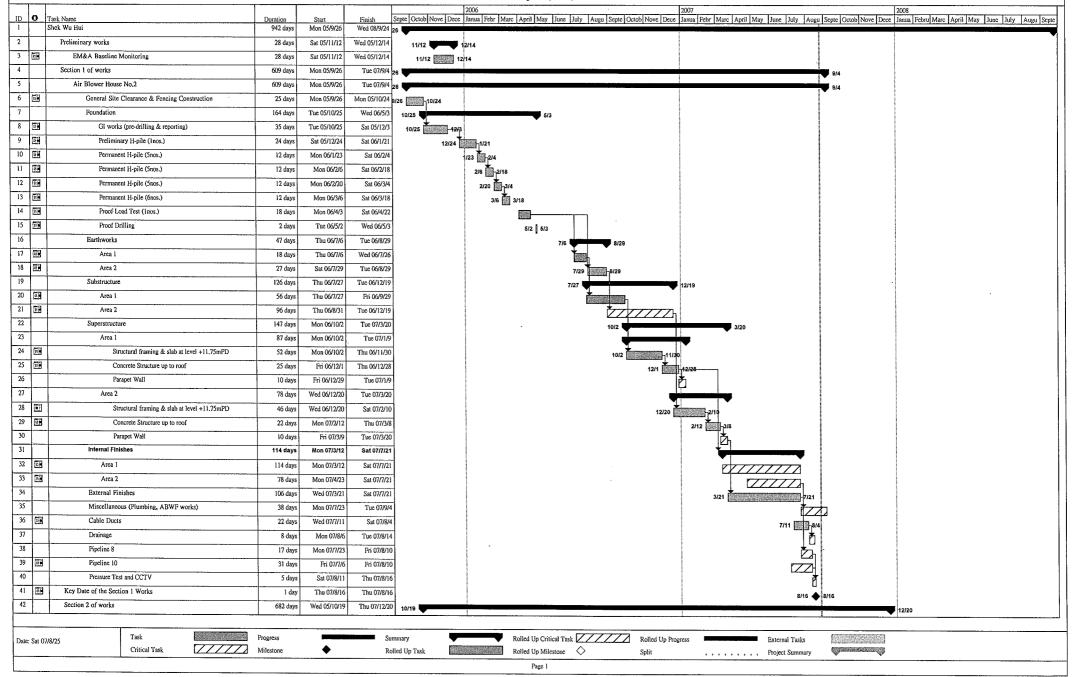
Project Organization



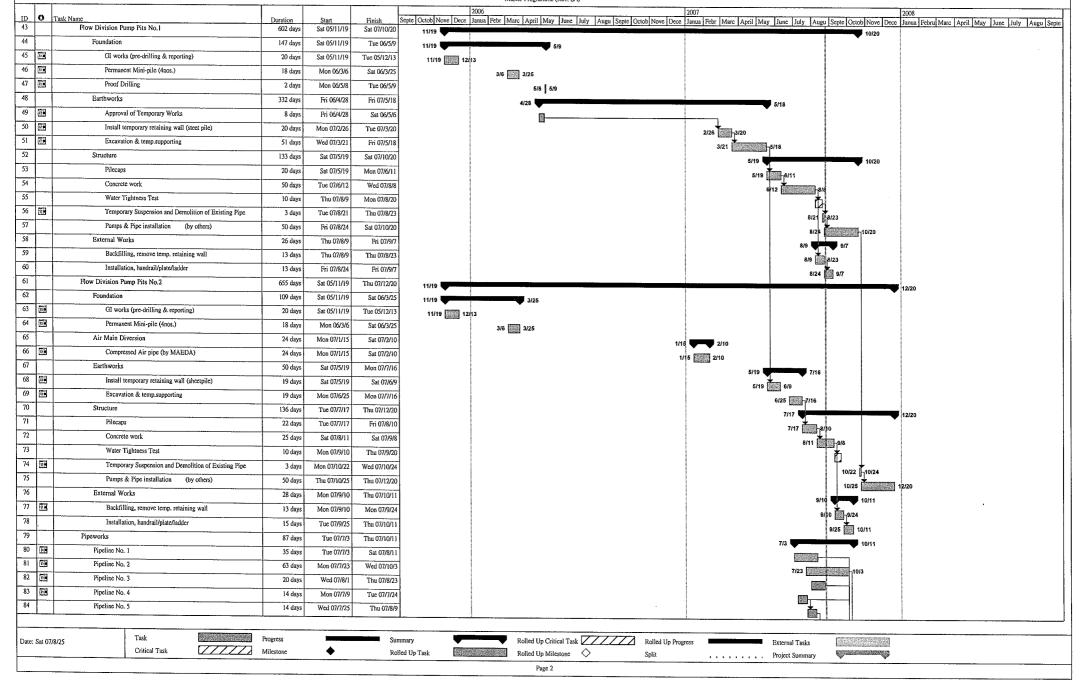


Construction Programme

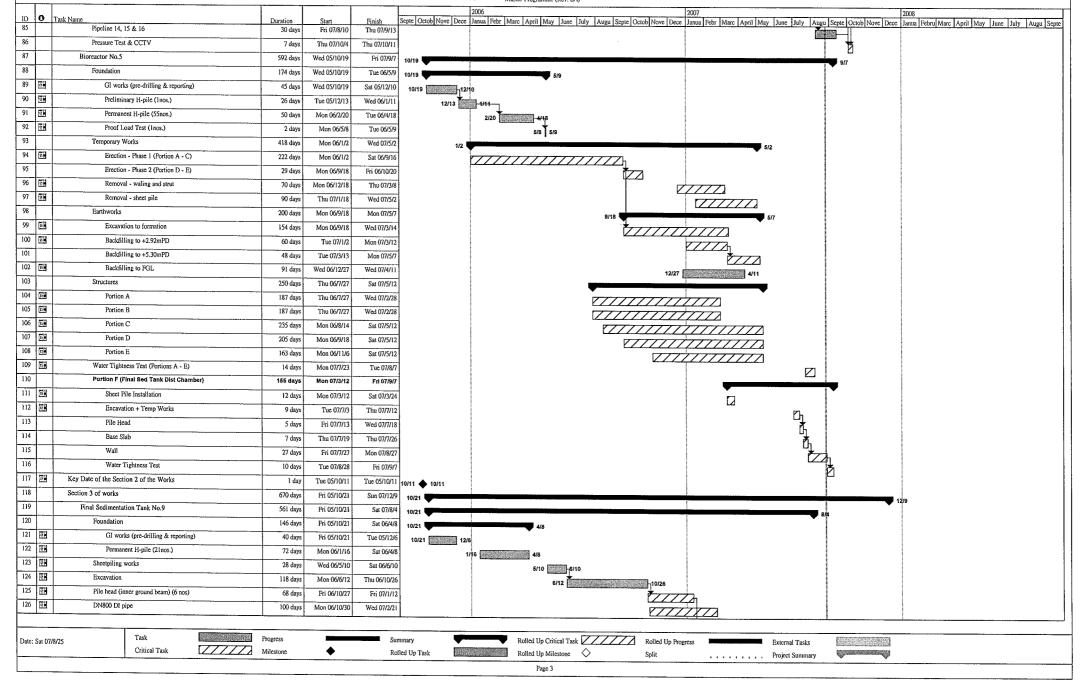
Maeda Corporation Contract No. DC/2005/01 Expansion of Shek Wu Hui Sewage Treatment Works and Upgrading of Ting Kok Road Pumping Station No.5 Master Programme (Rev. 6A)



Macda Corporation Contract No. DC/2005/01 Expansion of Shek Wu Hui Sewage Treatment Works and Upgrading of Ting Kok Road Pumping Station No.5 Master Programme (Rev. 6A)



Macda Corporation
Contract No. DC/2005/01
Expansion of Shek Wu Hui Sewage Treatment Works and
Upgrading of Ting Kok Road Pumping Station No.5
Master Programme (Rev. 6A)

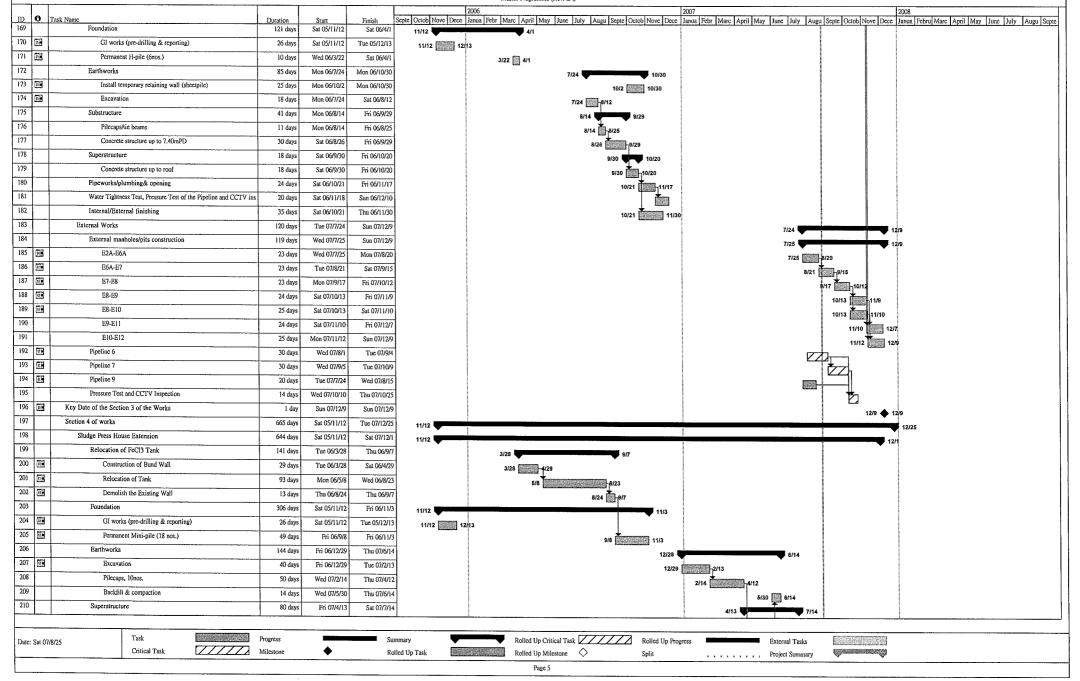


Macda Corporation Contract No. DC/2005/01 Expansion of Stek Wu Hui Sewage Treatment Works and Upgrading of Ting Kok Road Pumping Station No.5 Master Programme (Rev. 6A)

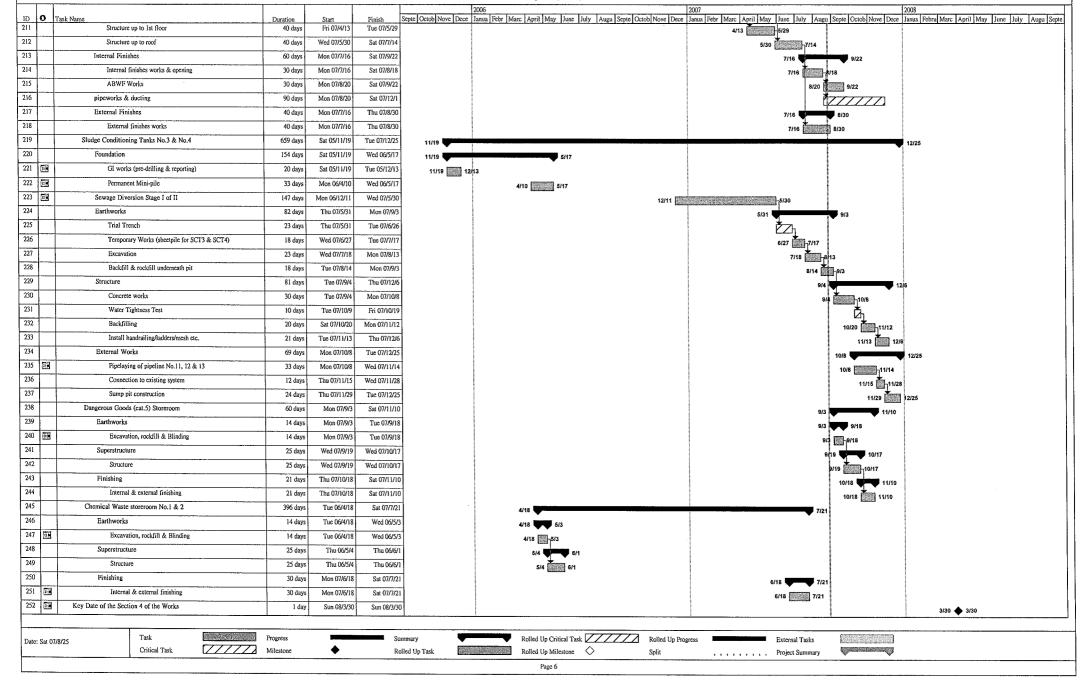
2006 2007 ID O Task Name Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octob Nove Dece Janua Febr Marc April May June July Augu Septe Octob Nove Dece Janua Fe Duration 127 運 DN450 DI pipe 63 days Mon 06/11/13 Tue 07/1/23 128 Pile head (outer ground beam) (15 nos) 29 days Sat 07/1/13 Thu 07/2/15 129 Outer ground beam Wed 07/1/24 14 days Thu 07/2/8 130 Base slab 26 days Fri 07/2/9 Sat 07/3/10 131 選 Wall (2 panels) 73 days Mon 07/3/12 Mon 07/6/4 132 Water Tightness Test and Pressure Test of Pipeline 20 days Tue 07/6/5 Wed 07/6/27 6/5 6/27 133 backfilling to +4.20mPD 5 days Thu 07/7/5 Tue 07/7/10 7/5 7/10 134 Break and remove Row 1 ring beam 8 days Wed 07/7/11 Thu 07/7/19 7/11 🖣 7/19 135 backfilling to +5.51mPD Fri 07/7/20 4 days Tue 07/7/24 7/20 7/24 136 Extract sheetpiles 10 days Wed 07/7/25 Sat 07/8/4 7/25 8/4 137 FINAL SEDIMENTION TANK NO. 10 238 days Thu 07/3/8 Sun 07/12/9 138 Sheetpiling works 24 days Wed 07/4/4 Thu 07/3/8 3/8 4/4 139 Excavation 81 days Thu 07/4/5 Sat 07/7/7 140 Pile head (inner ground beam) (6 nos) 30 days Mon 07/7/9 Sat 07/8/11 141 DN800 DI pipe 18 days Mon 07/7/9 Sat 07/7/28 ď 142 DN450 DI pipe 18 days Mon 07/7/9 Sat 07/7/28 143 Pile head (outer ground beam) (15 nos) 30 days Mon 07/8/13 Sat 07/9/15 144 Outer ground beam 20 days Mon 07/7/30 Tue 07/8/21 145 Base slab 20 days Wed 07/8/22 Thu 07/9/13 146 Wall (2 panels) 55 days Fri 07/9/14 Fri 07/11/16 147 Water Tightness Test and Pressure Test of Pipeline Wed 07/11/28 10 days Sat 07/11/17 11/17 📗 11/28 148 backfilling to +4.20mPD 5 days Tue 07/11/13 Sat 07/11/17 11/13 11/17 149 Break and remove Row 1 ring beam 8 days Mon 07/11/19 Tue 07/11/27 11/19 11/27 150 backfilling to +5.51mPD 4 days Wed 07/11/28 Sat 07/12/1 11/28 12/1 151 Extraction of sheetpiles 7 days Mon 07/12/3 Sun 07/12/9 12/3 12/9 152 RAS/SAS Switch Room 518 days Sat 05/11/12 Sat 07/7/7 153 Foundation 147 days Sat 05/11/12 Tue 06/5/2 154 GI works (pre-drilling & reporting) 26 days Sat 05/11/12 Tue 05/12/13 11/12 12/13 155 Permanent H-pile (6nos.) 31 days Wed 06/2/15 Wed 06/3/22 2/15 3/22 156 Proof Load Test 7 days Tue 06/4/25 Tue 06/5/2 4/25 5/2 157 Earthworks 54 days Wed 06/5/3 Tue 06/7/4 158 Install temporary retaining wall (sheetpile) 25 days Wed 06/5/3 Wed 06/5/31 159 Excavation 29 days Thu 06/6/1 Tue 06/7/4 160 Substructure 29 days Wed 06/7/5 Mon 06/8/7 161 Pilecaps/tie beams 11 days Wed 06/7/5 Mon 06/7/17 162 Concrete structure up to 7,40mPD 18 days Tuc 06/7/18 Mon 06/8/7 163 Superstructure 18 days Tue 06/7/18 Mon 06/8/7 164 Concrete structure up to roof 18 days Tue 06/7/18 Mon 06/8/7 165 288 days Tue 06/8/8 Sat 07/7/7 166 Pipeworks/plumbing& opening 24 days Tue 06/8/8 Mon 06/9/4 167 Internal/External finishing Sat 07/7/7 30 days Mon 07/6/4 6/4 7/7 168 RAS/SAS Main Station 338 days Sat 05/11/12 Sun 06/12/10 11/12 Task Rolled Up Critical Task Progress Summary Rolled Up Progress Date: Sat 07/8/25 External Tasks Critical Task Milestone Rolled Up Task Rolled Up Milestone Project Summary

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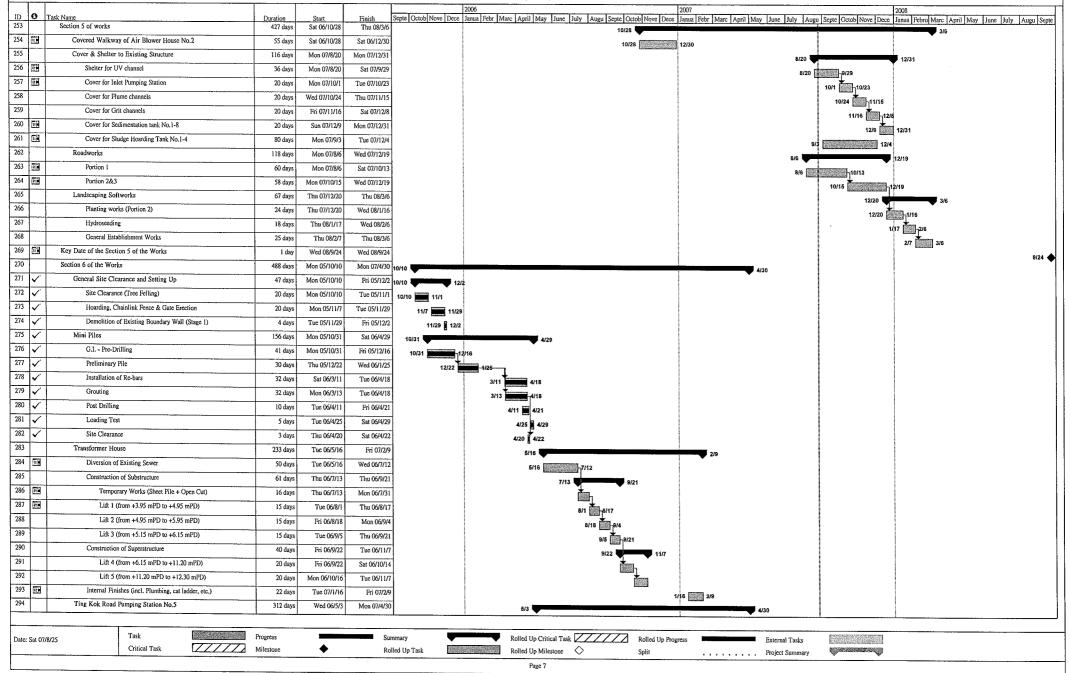
Macda Corporation
Contract No. DC/2005/01
Expansion of Shek Wu Hui Sewage Treatment Works and
Upgrading of Ting Kok Road Pumping Station No.5
Master Programme (Rev. 6A)



Macda Corporation Contract No. DC/2005/01 Expansion of Shek Wu Hui Sewage Treatment Works and Upgrading of Ting Kok Road Pumping Station No.5 Master Programme (Rev. 6A)

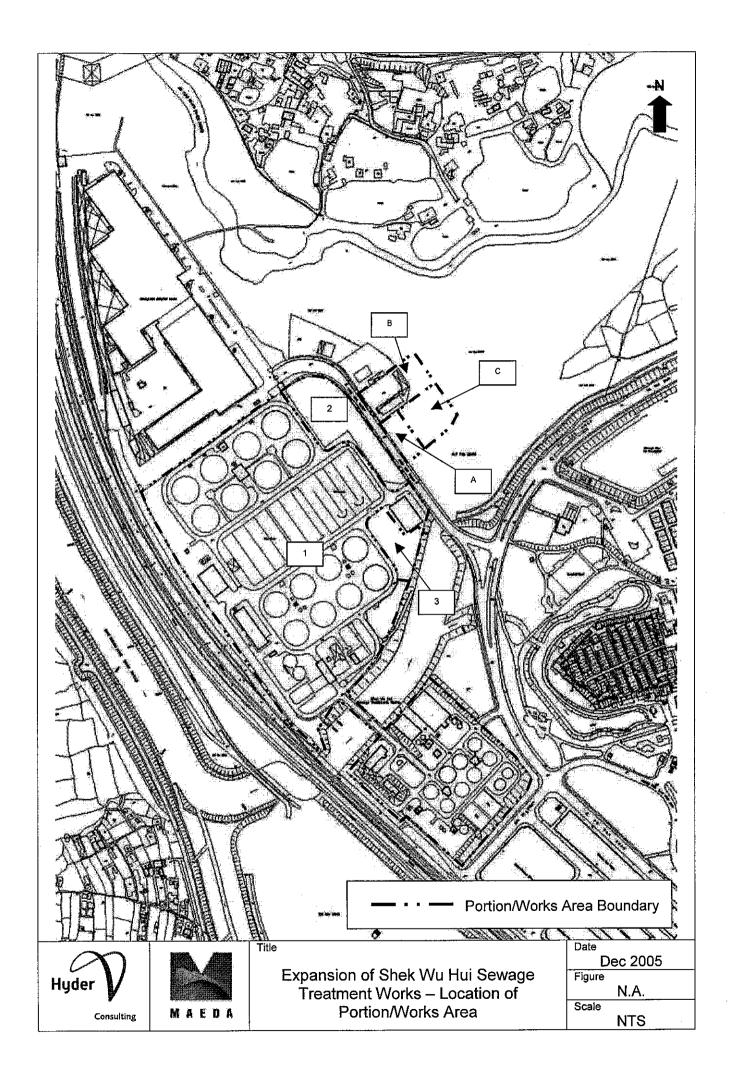


Maeda Corporation Contract No. DC/2005/01 Expansion of Shek Wu Hui Sewage Treatment Works and Upgrading of Ting Kok Road Pumping Station No.5 Master Programme (Rev. 6A)



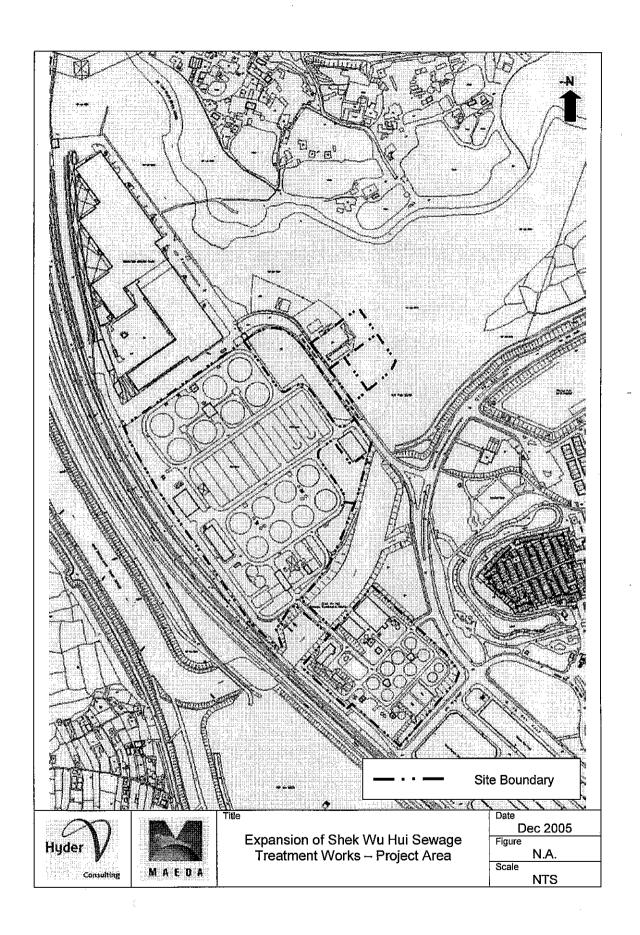


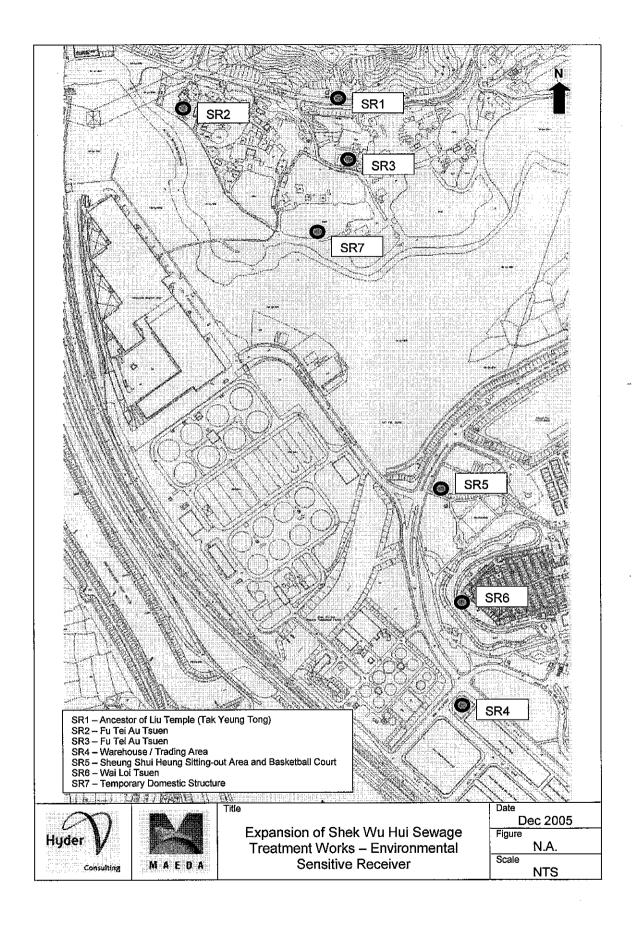
Works Area

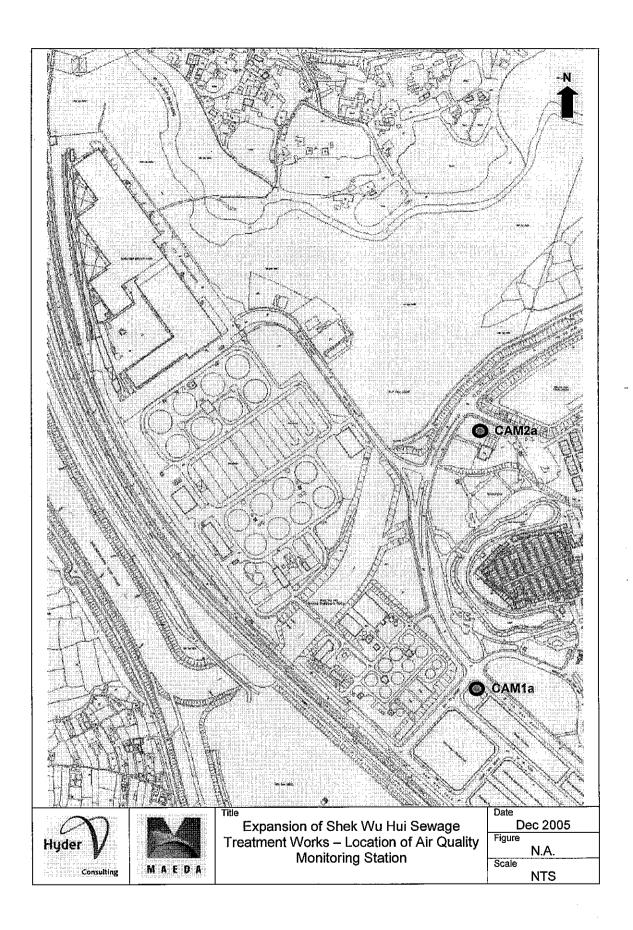


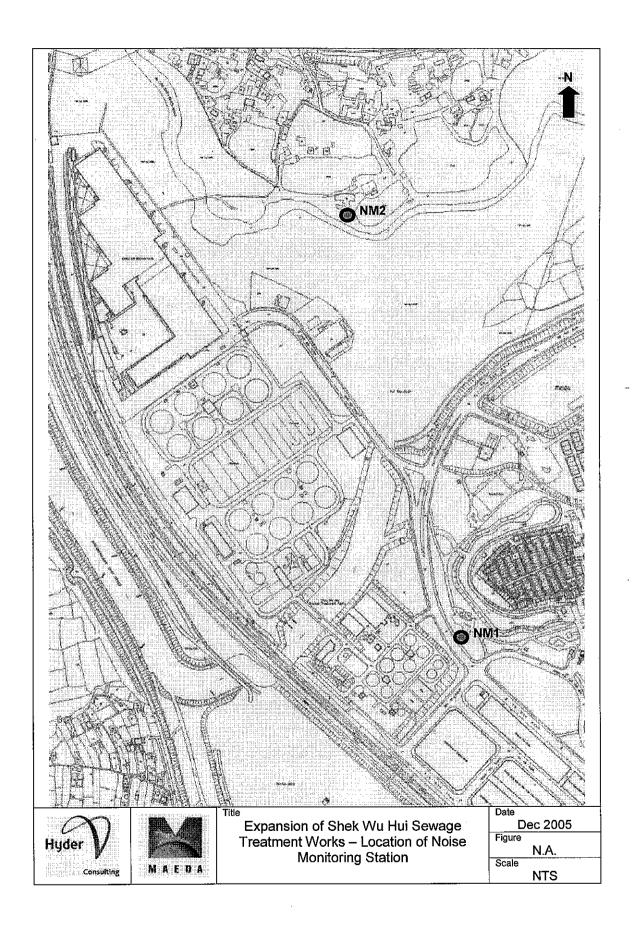


Project Area, Environmental Sensitive Receiver and Monitoring Location











Action and Limit Levels

Monitoring Station ID	1-hour TSP Le	vel 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	300	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



Appendix 6

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 as appropriate	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 as appropriate	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 as appropriate	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, and making arrangements for collection of all wastes generated at the site and effective disposal to an appropriate facility. Training of site personnel in proper waste management and chemical 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 as appropriate	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 as appropriate	N/A

PP Ref#	Environmental Protection Measures	Location / Timing	Implementation Agent	Implementation Status	Follow-up Action and Final Outcome
Annex 3 S3.5.7	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 as appropriate	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	Properly implemented as appropriate	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 as appropriate	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 as appropriate	N/A

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



Appendix 7

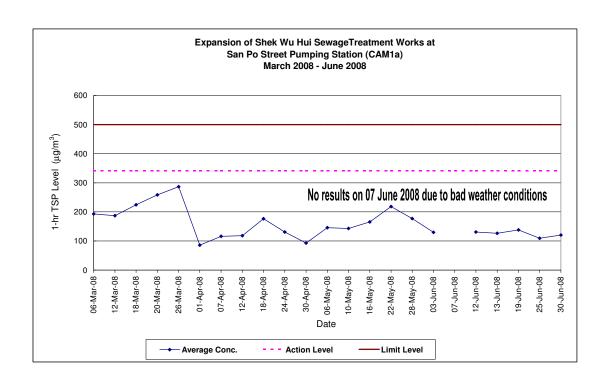
Monitoring Results and Graphical Plots

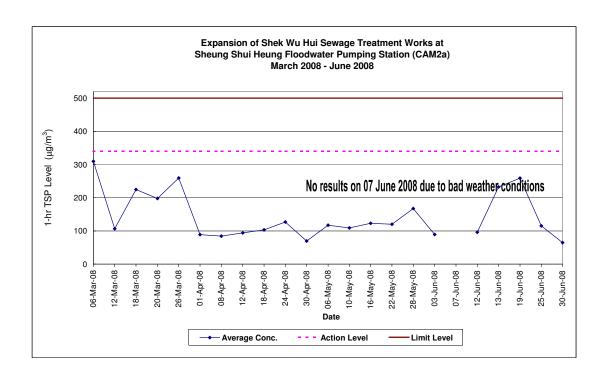
Air Quality Impact Monitoring Results (1-Hour TSP)

Location	Monitoring Date	Weather Conditions	Wind Speed with Direction (m/s)	Temp (°C)	Timer-I	Timer-F	Time (mins)	Flow-I (CFM/ Inches)	Flow-F (CFM/ Inches)	Flow-I (m³/min)	Flow-F (m³/min)	Flow-avg (m³/min)	Volume (m³)	Weight-I (g)	Weight-f (g)	Weight-diff. (g)	1-hr TSP (ug/m³)	Average 1-Hr TSP (ug/m³)	Action/Limit Levels (ug/m³)	Remark
San Po Street		Rainy	1.3 SE	21	630866	630962	57.6	40	39	1.09	1.08	1.08	62.42	2.7571	2.7671	0.0100	160.2		V-9 /	
Pumping Station	03-Jun-08	Rainy	1.3 SE	21	630962	631063	60.6	40	40	1.09	1.09	1.09	66.12	2.7446	2.7536	0.0090	136.1	129.6		
CAM1a		Rainy	1.3 SE	21	631063	631160	58.2	39	39	1.08	1.08	1.08	62.63	2.7481	2.7539	0.0058	92.6			
					-	-					-	-		-	-		0.0			
	07-Jun-08*	-				-	-	-	-		-			-	-		0.0	0.0		No results due to bad weather conditions
		-		-		-	-	-	-								0.0			
	12-Jun-08**	Cloudy	1.9 S 1.9 S	30 30	633537 633638	633638 633735	60.6 58.2	39 39	39 38	1.08	1.08	1.08	65.22 62.20	2.7232	2.7316	0.0084	128.8	130.9		
	12-3011-00	Cloudy	1.9 S	30	633735	633829	56.4	39	38	1.08	1.06	1.07	60.70	2.7286	2.7414	0.0077	140.0	130.9		
		Bainy	3.4 S	25	633940	634038	58.8	39	40	1.08	1.09	1.08	63.72	2.7266	2.8056	0.0085	158.5			
	13-Jun-08	Rainy	3.4 S	25	634038	634136	58.8	40	40	1.09	1.09	1.09	64.16	2.7889	2.7975	0.0086	134.0	126.7	342.7/500	
		Rainy	3.4 S	25	634136	634236	60.0	40	39	1.09	1.08	1.08	65.02	2.8064	2.8121	0.0057	87.7			
		Fine	1.5 S	28	636626	636724	58.8	40	40	1.09	1.09	1.09	64.16	2.8089	2.8187	0.0098	152.7			
	19-Jun-08	Fine	1.5 S	28	636724	636820	57.6	40	40	1.09	1.09	1.09	62.85	2.7912	2.8001	0.0089	141.6	138.1		
		Fine	1.5 S	28	636820	636926	63.6	39	39	1.08	1.08	1.08	68.44	2.7953	2.8035	0.0082	119.8			
		Rainy	4.4 SW	26	641702	641800	58.8	41	41	1.11	1.11	1.11	65.04	2.7836	2.7928	0.0092	141.5			
	25-Jun-08	Rainy	4.4 SW	26	641800	641907	64.2	41	41	1.11	1.11	1.11	71.01	2.8263	2.8319	0.0056	78.9	109.2		
		Rainy	4.4 SW	26	641907	642004	58.2	41	41	1.11	1.11	1.11	64.38	2.8005	2.8074	0.0069	107.2			
	30-Jun-08	Cloudy	0.5 SE	29	644402	644495	55.8	41	41	1.11	1.11	1.11	61.72	2.7733	2.7815	0.0082	132.9	120.7		
	30-3011-06	Cloudy	0.5 SE 0.5 SE	29 29	644495 644596	644596 644696	60.6 60.0	41 41	41	1.11	1.11	1.11	67.03 66.37	2.7558 2.7274	2.7646 2.7339	0.0088	131.3 97.9	120.7		
Sheuna Shui Heuna		Rainy	1.2 SE	21	744118	744215	58.2	41	41	1.05	1.05	1.05	60.92	2.7256	2.7339	0.0063	121.5			
Floodwater	03-Jun-08	Rainy	1.2 SE	21	744215	744215	60.6	41	40	1.05	1.03	1.03	63.03	2.7230	2.7654	0.0074	85.7	89.1		
Pumping Station	00-0011-00	Rainy	1.2 SE	21	744215	744414	58.8	41	41	1.05	1.05	1.04	61.54	2.7461	2.7498	0.0034	60.1	00.1		
CAM2a		nailly	1.2 3E	- 21	744316	744414	30.0	- 41	41	1.05	1.05	1.05	01.34	2.7401	2.7430	0.0037	0.0			
OAIVIZa	07-Jun-08*	-		- :	-:-			- :	-		<u> </u>	- :	-:		- :	- :	0.0	0.0		No results due to bad weather conditions
	07-0011-00	-	-	-	-:-		-	- :	-	-	<u> </u>	-	-		- :	-	0.0	0.0		140 results due to bad weather conditions
		Cloudy	1.9 S	30	746801	746904	61.8	39	39	1.02	1.02	1.02	63.08	2.7549	2.7593	0.0044	69.8			
	12-Jun-08**	Cloudy	1.9 S	30	746904	747001	58.2	39	39	1.02	1.02	1.02	59.40	2.7296	2.7357	0.0061	102.7	95.9		
	12-0011-00	Cloudy	1.9 S	30	747001	747001	56.4	39	38	1.02	1.01	1.01	57.20	2.7604	2.7670	0.0066	115.4	33.3		
		Rainy	3.1 S	25	749586	747095	60.0	40	40	1.02	1.03	1.03	62.02	2.7623	2.7866	0.0243	391.8			
	13-Jun-08	Rainy	3.1 S	25	749686	749786	60.0	40	40	1.03	1.03	1.03	62.02	2.7911	2.7998	0.0243	140.3	232.3	340.2/500	
		Rainy	3.1 S	25	749786	749884	58.8	39	39	1.02	1.02	1.02	60.02	2.8119	2.8218	0.0099	165.0			
		Fine	1.4 S	28	752274	752374	60.0	38	38	1.01	1.01	1.01	60.46	2.8059	2.8237	0.0178	294.4			
	19-Jun-08	Fine	1.4 S	28	752374	752474	60.0	38	38	1.01	1.01	1.01	60.46	2.7784	2.7881	0.0097	160.4	258.8		
		Fine	1.4 S	28	752474	752574	60.0	39	39	1.02	1.02	1.02	61.24	2.8103	2.8300	0.0197	321.7			
		Rainy	4.1 SW	26	754959	755058	59.4	41	40	1.05	1.03	1.04	61.79	2.7979	2.8065	0.0086	139.2			
	25-Jun-08	Rainy	4.1 SW	26	755058	755162	62.4	41	42	1.05	1.06	1.05	65.72	2.7940	2.8003	0.0063	95.9	115.2		
		Rainy	4.1 SW	26		2.7657	0.0066	110.6												
	00 1 00	Cloudy	0.7 SE	29	757683	757777	56.4	40	40	1.03	1.03	1.03	58.30	2.7618	2.7668	0.0050		85.8		
	30-Jun-08	Cloudy	0.7 SE 0.7 SE	29 29	757777 757878	757878	60.6 60.0	40 40	40 40	1.03	1.03	1.03	62.64 62.02	2.7685 2.7444	2.7719 2.7477	0.0034 0.0033	54.3 53.2	64.4		
"Shading" indicates an ex		Cloudy	0.7 SE hading" indicates an			757978	60.0	40	40	1.03	1.03	1.03	62.02	2./444	2./4//	0.0033	53.2			

"Shading" indicates an exceedance of Action Level. "Bold and shading" indicates an exceedance of Limit Level.

Note: ' No results due to bad weather conditions

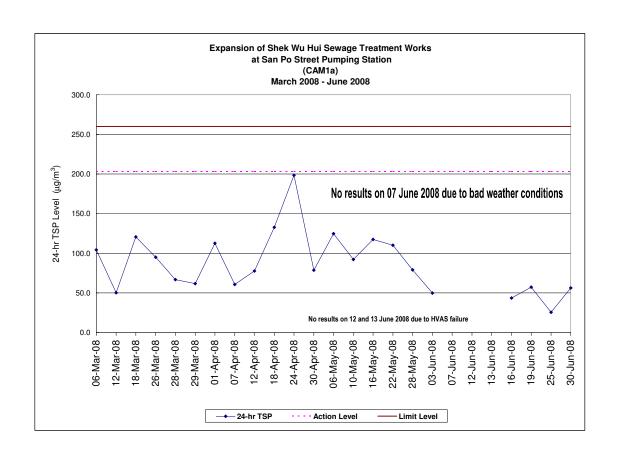


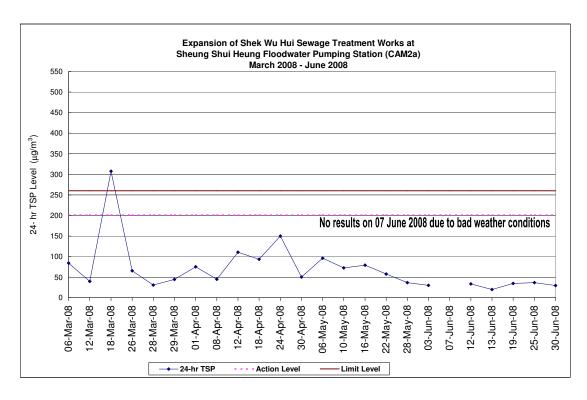


Air Quality Impact Monitoring Results (24-Hour TSP)

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	(°C)	(mmHg)				(CFM/	(CFM/	(m³/min)	(m³/min)	(m³/min)	(m ³)				(ug/m³)	Levels	
			(m/s)						Inches)	Inches)									(ug/m³)	
	03-Jun-08	Rainy	1.3 SE	21	1008.5	631160	633537	1426.2	40	39	1.09	1.08	1.08	1545.51	2.7320	2.8089	0.0769	49.8		
	07-Jun-08*	-	-		-	-		-	-	-	-	-	-	-	-		-	0.0		No results due to bad weather conditions
	12-Jun-08***	-	-	-	-	-	-	-	-		-	-	-		-		-	0.0		Power failure
San Po Street Pumping Station	13-Jun-08***	-	-	-	-	-	-	-	-		-	-	-		-		-	0.0	203.3/260	HVAS failure, additional monitoring on 20 June 2008
CAM1a	16-Jun-08**	Sunny	0.3 E	31	1004.0	634236	636626	1434	38	39	1.06	1.08	1.07	1532.50	2.7967	2.8635	0.0668	43.6	203.3/200	-
	19-Jun-08	Fine	1.5 S	28	1009.4	636926	639302	1425.6	40	40	1.09	1.09	1.09	1555.53	2.7782	2.8675	0.0893	57.4		
	25-Jun-08	Rainy	4.4 SW	26	998.4	642004	644402	1438.8	40	40	1.09	1.09	1.09	1569.93	2.8109	2.8513	0.0404	25.7		
	30-Jun-08	Cloudy	0.5 SE	29	1009.0	644696	647090	1436.4	41	41	1.11	1.11	1.11	1588.81	2.7345	2.8240	0.0895	56.3		
	03-Jun-08	Rainy	1.2 SE	21	1008.5	744414	746801	1432.2	41	40	1.05	1.03	1.04	1489.73	2.7753	2.8201	0.0448	30.1		
	07-Jun-08*	-	-	-	-		-	-			-	-	-	-	-	-	-	0.0		No results due to bad weather conditions
Sheung Shui Heung	12-Jun-08**	Cloudy	1.9 S	30	1006.8	747095	749584	1493.4	39	38	1.02	1.01	1.01	1514.56	2.7384	2.7890	0.0506	33.4		Timer failure, manually stopped
Floodwater Pumping Station CAM2a	13-Jun-08	Rainy	3.1 S	25	1003.9	749886	752274	1432.8	37	40	0.99	1.03	1.01	1453.10	2.7819	2.8105	0.0286	19.7	201.6/260	Timer failure, manually stopped
Station Onlinea	19-Jun-08	Fine	1.4 S	28	1009.4	752574	754959	1431	39	40	1.02	1.03	1.03	1469.88	2.7905	2.8413	0.0508	34.6		
	25-Jun-08	Rainy	4.1 SW	26	998.4	755257	757683	1455.6	40	40	1.03	1.03	1.03	1504.61	2.7819	2.8369	0.0550	36.6		
TOL F. T. F.	30-Jun-08	Cloudy	0.7 SE	29	1009.0	757978	760390	1447.2	40	40	1.03	1.03	1.03	1495.93	2.7665	2.8108	0.0443	29.6		

[&]quot;Shading" indicates an exceedance of Action Level. "Bold and shading" indicates an exceedance of Limit Level.





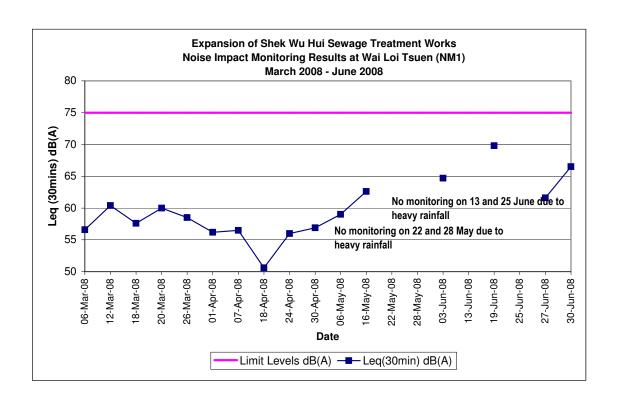
Noise Impact Monitoring Results

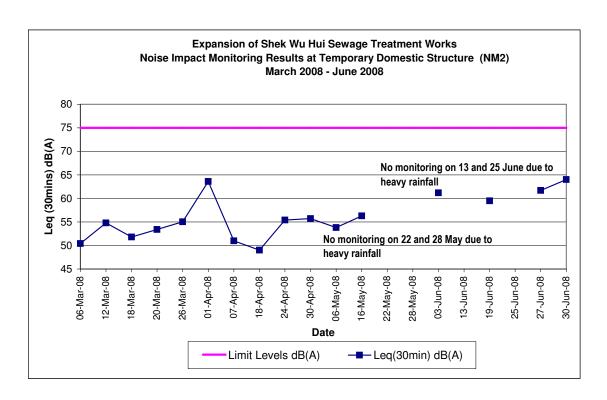
Monitoring Locations	Date	Weather	Temperature	Wind Speed	Wind	Start Time	End Time	Limit Levels	L _{eq(30min)}	L _{10(30min)}	L _{90(30min)}	Remark
		Conditions	(°C)	(m/s)	Direction			dB(A)	dB(A)	dB(A)	dB(A)	
Wai Loi Tsuen	03-Jun-08	Rainy	21	1.3	SE	10:35	11:05	75	64.7	66.6	61.4	Free Field
NM1	13-Jun-08*	Rainy	-	-	-	-	-	-	-	-	-	
	19-Jun-08	Fine	28	1.5	S	09:15	09:45	75	69.8	72.8	65.4	Free Field
	25-Jun-08*	Rainy	-	-	-	-	-	-	-	-	-	
	27-Jun-08	Fine	30	0.7	E	16:00	16:30	75	61.6	65.2	58.2	Free Field
	30-Jun-08	Cloudy	29	0.5	SE	13:20	13:50	75	66.5	69.1	63.0	Façade
Temporary Domestic	03-Jun-08	Rainy	21	1.2	SE	11:45	12:15	75	61.2	63.8	58.6	Free Field
Structure	13-Jun-08*	Rainy	-	-	-	-	-	-	-	-	-	
NM2	19-Jun-08	Fine	28	1.4	S	10:20	10:50	75	59.5	63.6	55.3	Free Field
	25-Jun-08*	Rainy	-	-	-	-	-	-	-	-	-	
	27-Jun-08**	Fine	30	0.8	Е	16:45	17:15	75	61.7	64.8	58.3	Free Field
	30-Jun-08	Cloudy	29	0.7	SE	14:25	14:55	75	64.0	63.7	57.9	Façade

A façade correction of 3 dB(A) was applied to each measurement result. "Shading" indicates an Limit Level exceedance.

Note: * No results due to heavy rainfall

^{**}Additional Monitoring

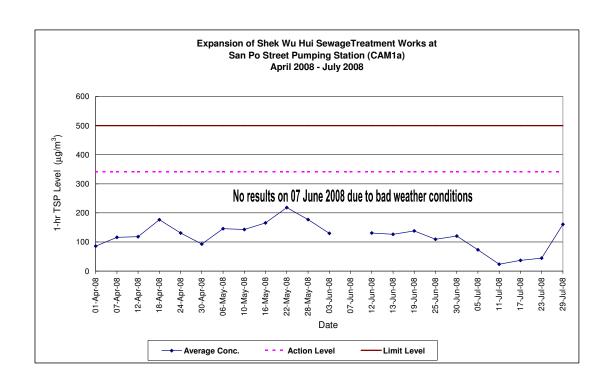


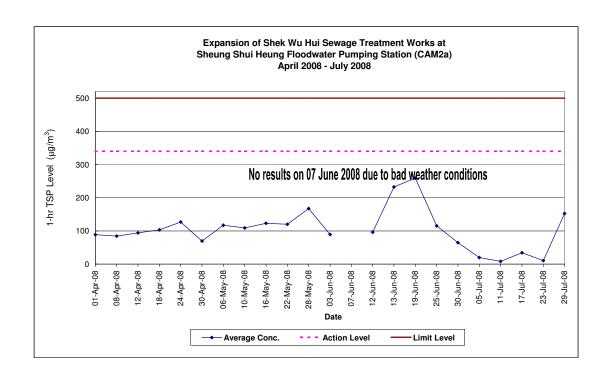


Air Quality Impact Monitoring Results (1-Hour TSP)

Location	Monitoring Date	Weather Conditions	Wind Speed with Direction (m/s)	Temp (°C)	Timer-I	Timer-F	Time (mins)	Flow-I (CFM/ Inches)	Flow-F (CFM/ Inches)	Flow-I (m³/min)	Flow-F (m³/min)	Flow-avg (m³/min)	Volume (m³)	Weight-I (g)	Weight-f (g)	Weight-diff. (g)	1-hr TSP (ug/m³)	Average 1-Hr TSP (ug/m³)	Action/Limit Levels (ug/m³)	Remark
an Po Street		Sunny	0.3N	29	647090	647190	60.0	40	40	1.07	1.07	1.07	64.34	2.7474	2.7523	0.0049	76.2			
umping Station	05-Jul-08	Sunny	0.3N	30	647190	647290	60.0	40	40	1.07	1.07	1.07	64.34	2.7034	2.7091	0.0057	88.6	73.1		
AM1a		Sunny	0.3N	30	647290	647390	60.0	40	40	1.07	1.07	1.07	64.34	2.7525	2.7560	0.0035	54.4			
		Fine	0.5 S	30	649781	649876	57.0	42	42	1.10	1.10	1.10	62.94	2.7517	2.7537	0.0020	31.8			
	11-Jul-08	Fine	0.5 S	30	649876	649972	57.6	42	42	1.10	1.10	1.10	63.60	2.7742	2.7749	0.0007	11.0	23.7		
		Fine	0.5 S	30	649972	650073	60.6	42	42	1.10	1.10	1.10	66.91	2.7541	2.7560	0.0019	28.4			
		Sunny	0.5 SE	32	652472	652565	55.8	38	38	1.04	1.04	1.04	58.05	2.8144	2.8158	0.0014	24.1		0.40 7.700	
	17-Jul-08	Sunny	0.5 SE	32	652565	652666	60.6	38	37	1.04	1.02	1.03	62.56	2.7479	2.7494	0.0015	24.0	37.1	342.7/500	
		Sunny	0.5 SE	32	652666	652765	59.4	38	38	1.04	1.04	1.04	61.80	2.8002	2.8041	0.0039	63.1			
		Sunny	0.5 SE	33	655108	655208	60.0	43	43	1.12	1.12	1.12	67.20	2.7284	2.7326	0.0042	62.5			
	23-Jul-08	Sunny	0.5 SE	33	655208	655308	60.0	43	42	1.12	1.10	1.11	66.73	2.7427	2.7453	0.0026	39.0	44.6		
		Sunny	0.5 SE	33	655308	655409	60.6	43	43	1.12	1.12	1.12	67.88	2.7325	2.7347	0.0022	32.4			
		Fine	0.5 SW	30	657812	657907	57.0	41	41	1.09	1.09	1.09	62.03	2.7521	2.7624	0.0103	166.1			
	29-Jul-08	Fine	0.5 SW	30	657907	658002	57.0	40	40	1.07	1.07	1.07	61.12	2.7349	2.7453	0.0104	170.2	160.6		
		Fine	0.5 SW	30	658002	658104	61.2	41	41	1.09	1.09	1.09	66.60	2.7366	2.7463	0.0097	145.6			
heung Shui Heung		Sunny	0.5N	29	760390	760490	60.0	41	41	1.03	1.03	1.03	61.86	2.7410	2.7435	0.0025	40.4			
oodwater	05-Jul-08	Sunny	0.5N	30	760490	760590	60.0	41	41	1.03	1.03	1.03	61.86	2.7414	2.7417	0.0003	4.8	19.9		
umping Station		Sunny	0.5N	30	760590	760690	60.0	41	41	1.03	1.03	1.03	61.86	2.7109	2.7118	0.0009	14.5			
AM2a		Fine	0.6 S	30	763097	763192	57.0	40	40	1.07	1.07	1.07	61.12	2.7760	2.7765	0.0005	8.2			
	11-Jul-08	Fine	0.6 S	30	763192	763287	57.0	41	41	1.09	1.09	1.09	62.03	2.7853	2.7854	0.0001	1.6	8.3		
		Fine	0.6 S	30	763287	763388	60.6	41	40	1.09	1.07	0.98	59.60	2.7728	2.7737	0.0009	15.1			
		Sunny	0.7 SE	32	765782	765880	58.8	37	37	0.98	0.98	0.98	57.83	2.7930	2.7951	0.0021	36.3			
	17-Jul-08	Sunny	0.7 SE	32	765880	765976	57.6	37	37	0.98	0.98	0.98	56.65	2.7751	2.7782	0.0021	54.7	34.3	340.2/500	
		Sunny	0.7 SE	32	765976	766077	60.6	36	36	0.97	0.97	0.97	58.88	2.7990	2.7997	0.0007	11.9	•		
		Sunny	0.7 SE	33	768420	768522	61.2	40	39	1.02	1.01	1.01	62.01	2.7678	2.7682	0.0007	6.5			
	23-Jul-08	Sunny	0.5 SE	33	768522	768620	58.8	39	39	1.02	1.01	1.01	59.23	2.7266	2.7682	0.0004	11.8	10.5		
	20-001-00	Sunny	0.5 SE	33	768620	768721	60.6	39	39	1.01	1.01	1.01	61.04	2.7379	2.7387	0.0007	13.1	10.5		
		Fine	0.5 SW	30	771128	771222	56.4	39	39	1.01	1.01	1.01	56.81	2.7612	2.7708	0.0006	169.0			
	29-Jul-08	Fine	0.5 SW	30	771222	771323	60.6	40	39	1.02	1.01	1.01	61.40	2.7322	2.7407	0.0096	138.4	152.5		
	20 001-00	Fine	0.5 SW	30	771323	771420	58.2	40	40	1.02	1.02	1.02	59.31	2.7483	2.7572	0.0089	150.4	152.5		l

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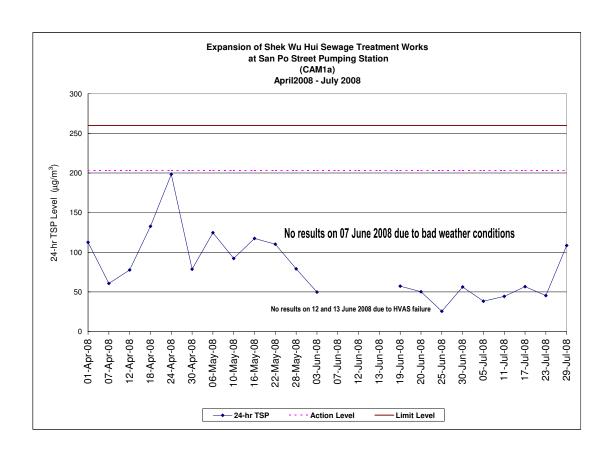


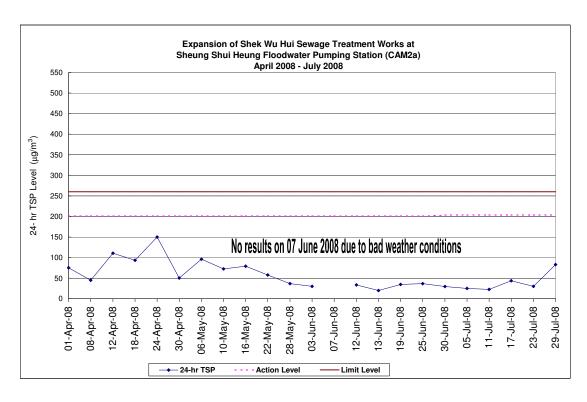


Air Quality Impact Monitoring Results (24-Hour TSP)

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	(°C)	(mmHg)				(CFM/	(CFM/	(m³/min)	(m³/min)	(m³/min)	(m ³)				(ug/m³)	Levels	
			(m/s)						Inches)	Inches)									(ug/m³)	
	05-Jul-08	Sunny	0.3E	31	1007.3	647390	649781	1434.6	41	42	1.09	1.10	1.10	1572.57	2.7437	2.8040	0.0603	38.3		
San Po Street	11-Jul-08	Fine	0.5 S	30	1004.6	650073	652471	1438.8	43	42	1.12	1.10	1.11	1600.11	2.8140	2.8850	0.0710	44.4		
Pumping Station	17-Jul-08	Sunny	0.5 SE	32	1003.1	652765	655108	1405.8	38	37	1.04	1.02	1.03	1451.38	2.7681	2.8504	0.0823	56.7	203.3/260	
CAM1a	23-Jul-08	Sunny	0.5 SE	33	1006.5	655409	657812	1441.8	37	40	1.02	1.07	1.05	1511.52	2.7440	2.8127	0.0687	45.5		
	29-Jul-08	Fine	0.5 SW	30	998.0	658104	660507	1441.8	41	41	1.09	1.09	1.09	1568.97	2.7621	2.9326	0.1705	108.7		
	05-Jul-08	Sunny	0.5N	31	1007.3	760670	763098	1456.8	41	41	1.03	1.03	1.03	1501.87	2.7008	2.7380	0.0372	24.8		
Sheung Shui Heung	11-Jul-08	Fine	0.6 S	30	1004.6	763388	765782	1436.4	41	41	1.03	1.03	1.03	1480.84	2.7618	2.7953	0.0335	22.6		
Floodwater Pumping Station CAM2a	17-Jul-08	Sunny	0.7 SE	32	1003.1	766077	768420	1405.8	37	37	0.98	0.98	0.98	1382.64	2.7475	2.8078	0.0603	43.6	201.6/260	
Station GAIVIZA	23-Jul-08	Sunny	0.5 SE	33	1006.5	768721	771127	1443.6	39	40	1.01	1.02	1.01	1462.60	2.7401	2.7837	0.0436	29.8		
	29-Jul-08	Fine	0.5 SW	30	998.0	771420	773829	1445.4	40	40	1.02	1.02	1.02	1472.99	2.7800	2.9024	0.1224	83.1		

[&]quot;Shading" indicates an exceedance of Action Level. "Bold and shading" indicates an exceedance of Limit Level.

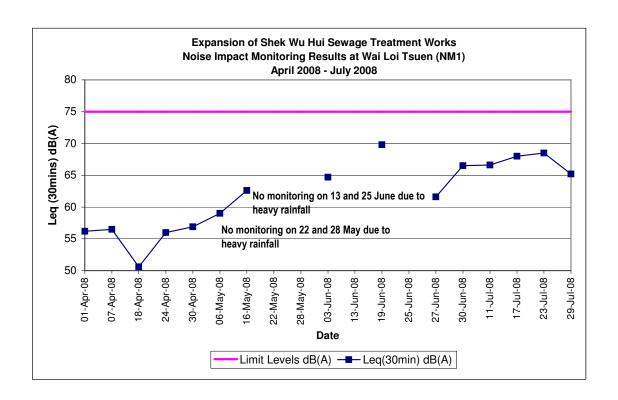


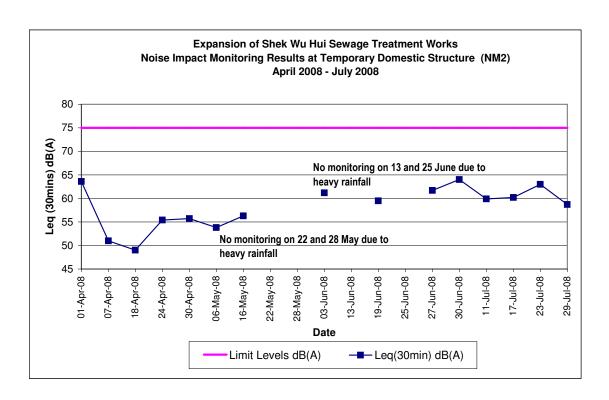


Noise Impact Monitoring Results

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	11-Jul-08	Fine	30	0.5	S	11:25	11:55	75	66.6	69.1	63.6	
NM1	17-Jul-08	Sunny	32	0.5	SE	13:20	13:50	75	68.0	69.9	66.0	
	23-Jul-08	Sunny	33	0.5	SE	10:15	10:45	75	68.5	70.3	66.1	
	29-Jul-08	Fine	30	0.5	SW	10:15	10:45	75	65.2	66.8	62.8	
Temporary Domestic	11-Jul-08	Fine	30	0.6	S	9:30	10:00	75	59.9	63.0	57.5	
Structure	17-Jul-08	Sunny	32	0.7	SE	14:20	14:50	75	60.2	62.1	57.7	
NM2	23-Jul-08	Sunny	33	0.5	SE	11:20	11:50	75	63.0	65.6	61.0	
	29-Jul-08	Fine	30	0.5	SW	11:15	11:45	75	58.7	60.8	56.2	

A façade correction of 3 dB(A) was applied to each measurement result. "Shading" indicates an Limit Level exceedance.

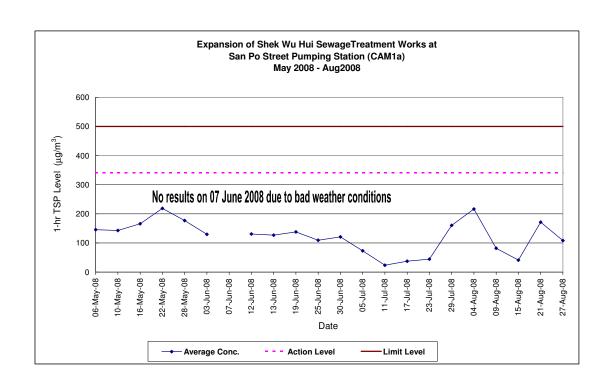


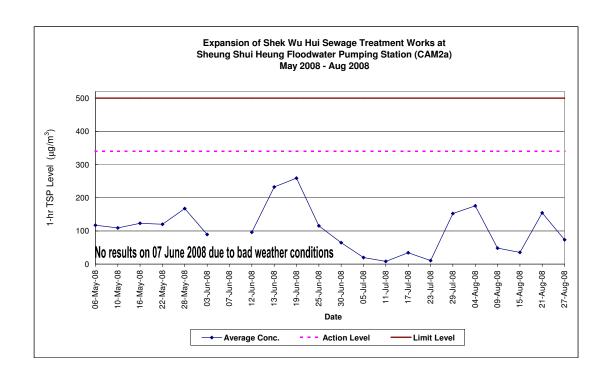


Air Quality Impact Monitoring Results (1-Hour TSP)

Location	Monitoring Date	Weather	Wind Speed	Temp	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)	1-hr TSP	Average 1-Hr TSP	Action/Limit	Remark
		Conditions	with Direction (m/s)	(°C)				(CFM/ Inches)	(CFM/ Inches)	(m³/min)	(m³/min)	(m³/min)	(m ³)				(ug/m³)	(ug/m³)	Levels (ug/m³)	
San Po Street		Sunny	0.3E	32	660507	660599	55.2	40	40	1.07	1.07	1.07	59.19	2.7357	2.7476	0.0119	201.1		,	
Pumping Station	04-Aug-08	Sunny	0.3E	32	660599	660699	60.0	40	40	1.07	1.07	1.07	64.34	2.7709	2.7873	0.0164	254.9	216.4		
CAM1a		Sunny	0.3E	32	660699	660802	61.8	40	40	1.07	1.07	1.07	66.27	2.7768	2.7896	0.0128	193.2			
		Fine	0.3E	29	663157	663252	57.0	40	40	1.07	1.07	1.07	61.12	2.8322	2.8368	0.0046	75.3			
	09-Aug-08	Fine	0.3E	29	663252	663353	60.6	41	41	1.09	1.09	1.09	65.95	2.7582	2.7640	0.0058	88.0	81.7		
		Fine	0.3E	29	663353	663456	61.8	41	41	1.09	1.09	1.09	67.25	2.8440	2.8495	0.0055	81.8			
		Sunny	0.5 SE	32	665867	665962	57.0	40	40	1.07	1.07	1.07	61.12	2.8397	2.8424	0.0027	44.2			
	15-Aug-08	Sunny	0.5 SE	32	665962	666060	58.8	41	41	1.09	1.09	1.09	63.99	2.8595	2.8620	0.0025	39.1	41.4	342.7/500	
		Sunny	0.5 SE	32	666060	666161	60.6	41	41	1.09	1.09	1.09	65.95	2.8561	2.8588	0.0027	40.9			
		Fine	0.5 SE	30	673348	673450	61.2	40	40	1.07	1.07	1.07	65.62	2.7500	2.7587	0.0087	132.6			
	21-Aug-08	Fine	0.5 SE	30	673450	673551	60.6	41	41	1.09	1.09	1.09	65.95	2.7445	2.7552	0.0107	162.3	171.4		
		Fine	0.5 SE	30	673551	673653	61.2	41	41	1.09	1.09	1.09	66.60	2.7342	2.7488	0.0146	219.2			
	27-Aug-08	Sunny	0.5SE 0.5SE	33	676082	676181	59.4	41	41	1.09	1.09	1.09	64.64	2.7360 2.7337	2.7423	0.0063	97.5	108.1		
	27-Aug-08	Sunny	0.5SE 0.5SE	33	676181 676283	676283 676386	61.2 61.8	40 40	40 40	1.07	1.07	1.07	65.62 66.27	2.7337	2.7379 2.7565	0.0042 0.0108	64.0 163.0	108.1		
Sheung Shui Heung		Sunny	0.33E	32	773829	773921	55.2	40	40	1.02	1.02	1.02	56.25	2.8549	2.7565	0.0108	133.3			
Floodwater	04-Aug-08	Sunny	0.4E	32	773921	774027	63.6	40	40	1.02	1.02	1.02	64.81	2.7519	2.7657	0.0073	212.9	175.8		
Pumping Station	04-Aug-00	Sunny	0.4E	32	774027	774130	61.8	40	40	1.02	1.02	1.02	62.98	2.7758	2.7872	0.0138	181.0	173.0		
CAM2a		Fine	0.4E	29	776479	776575	57.6	37	37	1.02	1.02	1.02	59.01	2.8236	2.8267	0.0031	52.5			
CAIVIZA	09-Aug-08	Fine	0.3E	29	776575	776676	60.6	38	37	1.02	1.02	1.02	62.56	2.7920	2.7955	0.0031	55.9	48.0		
	09-Aug-08	Fine	0.3E	29	776676	776776	60.0	38	38	1.04	1.02	1.03		2.7920	2.7955	0.0035	35.6	40.0		
													61.86							
		Sunny	0.5 SE	32	779197	779292	57.0	41	41	1.03	1.03	1.03	58.76	2.8412	2.8434	0.0022	37.4		340.2/500	
	15-Aug-08	Sunny	0.5 SE	32	779292	779393	60.6	41	41	1.03	1.03	1.03	62.47	2.8591	2.8616	0.0025	40.0	35.4		
		Sunny	0.5 SE	32	779393	779490	58.2	40	40	1.02	1.02	1.02	59.31	2.8310	2.8327	0.0017	28.7			
		Fine	0.7 SE	30	781911	782014	61.8	39	39	1.01	1.01	1.01	62.25	2.7360	2.7438	0.0078	125.3			
	21-Aug-08	Fine	0.7 SE	30	782014	782117	61.8	38	38	1.00	1.00	1.00	61.51	2.7345	2.7428	0.0083	134.9	154.5		
		Fine	0.7 SE	30	782117	782220	61.8	38	38	1.00	1.00	1.00	61.51	2.7512	2.7637	0.0125	203.2			
	07 4 00	Sunny	0.7SE	33	784658	784757	59.4	38	38	1.00	1.00	1.00	59.13	2.7500	2.7533	0.0033	55.8	70.0		
	27-Aug-08	Sunny	0.7SE 0.7SE	33	784757 784855	784855 784957	58.8 61.2	37 37	37 37	0.98	0.98	0.98	57.83 60.19	2.7260 2.7449	2.7300 2.7506	0.0040 0.0057	69.2 94.7	73.2		
"Chading" indicates on ou	L		0./SE			/8495/	01.2	3/	3/	0.98	0.98	0.98	ชบ.19	2./449	2./506	0.005/	94./			

[&]quot;Shading" indicates an exceedance of Action Level. "Bold and shading" indicates an exceedance of Limit Level.

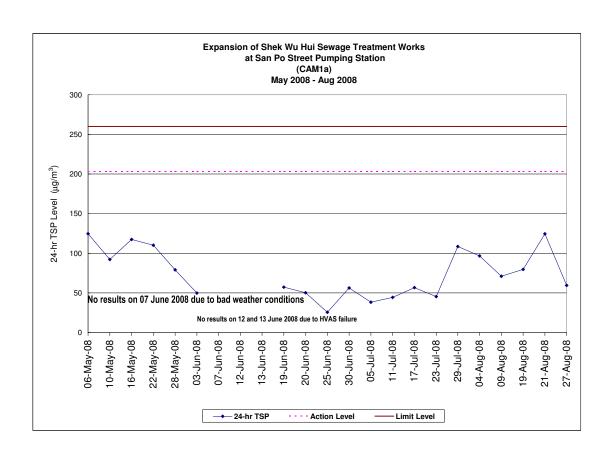


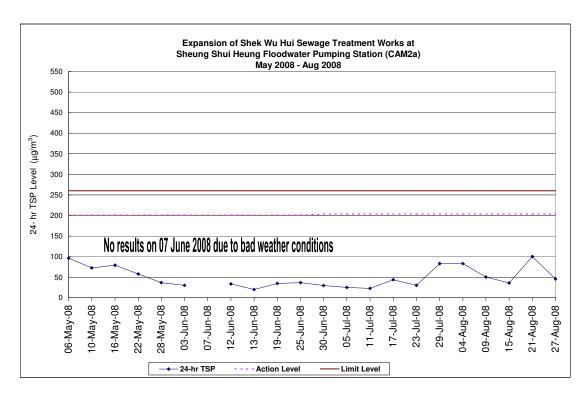


Air Quality Impact Monitoring Results (24-Hour TSP)

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	(°C)	(mmHg)				(CFM/	(CFM/	(m³/min)	(m³/min)	(m³/min)	(m ³)				(ug/m³)	Levels	
			(m/s)						Inches)	Inches)									(ug/m³)	
	04-Aug-08	Sunny	0.3E	32	753.0	660802	663157	1413	41	41	1.09	1.09	1.09	1537.63	2.7609	2.9107	0.1498	97.4		
	09-Aug-08	Fine	0.5E	29	752.6	663456	665867	1446.6	41	41	1.09	1.09	1.09	1574.20	2.8187	2.9330	0.1143	72.6		
San Po Street Pumping Station	15-Aug-08	Sunny	0.5SE	32	752.6	666161	670933	2863.2	40	40	1.07	1.07	1.07	3070.11	2.8393	2.9786	0.1393	45.4	203.3/260	
CAM1a	19-Aug-08	Sunny	0.6SE	33	757.5	670933	673348	1449	40	40	1.07	1.07	1.07	1553.71	2.7633	2.8872	0.1239	79.7	203.3/200	
	21-Aug-08	Sunny	0.5SE	30	752.3	673653	676082	1457.4	40	40	1.07	1.07	1.07	1562.72	2.7276	2.9222	0.1946	124.5		
	27-Aug-08	Sunny	0.5SE	33	757.3	676386	678769	1429.8	41	40	1.09	1.07	1.08	1544.52	2.7698	2.8619	0.0921	59.6		
	04-Aug-08	Sunny	0.4E	32	753.0	774130	776479	1409.4	40	41	1.02	1.03	1.03	1444.65	2.7748	2.8955	0.1207	83.5		
Sheung Shui Heung	09-Aug-08	Fine	0.6E	29	752.6	776776	779197	1452.6	38	38	1.00	1.00	1.00	1445.88	2.7791	2.8541	0.0750	51.9		
Floodwater Pumping Station CAM2a	15-Aug-08	Sunny	0.8SE	32	753.3	779490	781911	1452.6	41	41	1.03	1.03	1.03	1497.54	2.7947	2.8481	0.0534	35.7	201.6/260	
Giailon GAWZa	21-Aug-08	Sunny	0.7SE	30	752.3	782220	784658	1462.8	39	39	1.01	1.01	1.01	1473.38	2.7309	2.8786	0.1477	100.2		
	27-Aug-08	Sunny	0.7SE	33	757.3	784957	787346	1433.4	38	38	1.00	1.00	1.00	1426.77	2.7372	2.8024	0.0652	45.7		

[&]quot;Shading" indicates an exceedance of Action Level. "Bold and shading" indicates an exceedance of Limit Level.

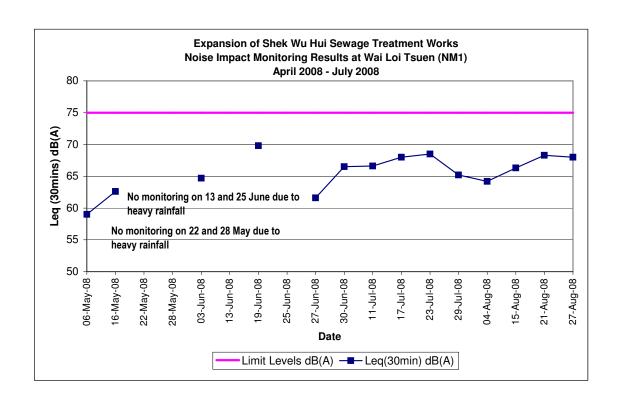


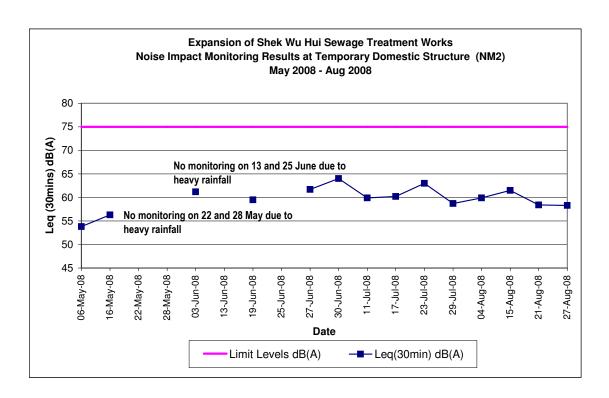


Noise Impact Monitoring Results

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	04-Aug-08	Sunny	32	0.3	Е	10:25	11:55	75	64.2	65.8	62.2	
NM1	15-Aug-08	Sunny	32	0.5	SE	9:35	10:05	75	66.3	67.8	63.3	
	21-Aug-08	Fine	30	0.5	SE	9:15	9:45	75	68.3	70.9	66.2	
	27-Aug-08	Sunny	33	0.5	SE	9:50	10:20	75	68.0	70.6	65.9	
Temporary Domestic	04-Aug-08	Sunny	32	0.4	Е	14:40	15:10	75	59.9	62.0	57.4	
Structure	15-Aug-08	Sunny	32	0.5	SE	10:35	11:05	75	61.5	64.0	59.3	
NM2	21-Aug-08	Fine	30	0.7	SE	10:15	10:45	75	58.4	60.7	56.2	
	27-Aug-08	Sunny	33	0.7	SE	10:45	11:15	75	58.3	60.9	56.0	

A façade correction of 3 dB(A) was applied to each measurement result. "Shading" indicates an Limit Level exceedance.







Appendix 8

Cumulative Statistics of Complaint, Notification of Summons and Successful Prosecution

Reporting	Numbe	er Received in	the Reporting	Month		Cumulativ	e Number	
Month	Complaint	Notification of Summon	Successful Prosecution	EPD Site Inspection Record	Complaint	Notification of Summon	Successful Prosecution	EPD Site Inspection Record
June 08 – August 08	0	0	0	0	0	0	0	0 (Last in Feb08)

Cumulative Number of Environmental Complaint