

Chun Wo Construction &
Engineering Co Ltd

Contract No HY/2005/06
Castle Peak Road
Improvement – West of
Tsing Lung Tau

Monthly Environmental
Monitoring and Audit
Report for Reclamation
Works (EP No EP-
219/2005)
November 2006

Second Issue

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Engineering Co Ltd

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Maunsell Environmental Management Consultants Ltd

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By Fax (2492 6201) and PostMeinhardt Halcrow JV
4/F., Wah Ming Centre,
421 Queen's Road West,
Hong KongAttn : Mr. Michael S Harfoot

11 December 2006

Dear Sir,

Contract No. HY/2005/06**Castle Peak Road Improvement – West of Tsing Lung Tau****Monthly EM&A Report for Reclamation Works (EP No. EP-219/2005) – November 2006**

We refer to the Monthly EM&A Report for Reclamation Works (EP No. EP-219/2005) – November 2006 received via emails on 8 December 2006 from Ove Arup & Partners Hong Kong Ltd., the Environmental Team (ET) of Castle Peak Road Improvement – West of Tsing Lung Tau (Remaining Contract).

Having addressed the IEC's comment on 11 December 2006, the Monthly EM&A Report for Reclamation Works (EP No. EP-219/2005) – November 2006 is verified to be acceptable for onward submission to the Engineer, HyD, EPD and AFCD.

Should you have any inquiry or comment, please do not hesitate to contact the undersigned or our Miss Connie Wong at 3105 8530.

Yours faithfully
for and on behalf of
**Maunsell Environmental
Management Consultants Ltd**




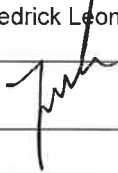

Y T Tang
Independent Environmental Checker

cc MHJV - Mr. Simon Illingworth (Fax: 2559 1613)
 Arup - Mr. Sam Tsoi / Mr. Fredrick Leong (Fax: 2268 3950)

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Executive Summary

This is the ninth monthly environmental monitoring and audit (EM&A) report presenting the progress of environmental monitoring and audit works for the reporting period between 1 November 2006 and 30 November 2006. Noise monitoring at Grand Bay Villa was temporarily suspended as the premises were vacant with no resident. Marine water monitoring and weekly environmental site audit were carried out during the reporting period.

Marine Water Quality Monitoring

Impact marine water quality monitoring was conducted during mid-ebb and mid-flood tidal cycles at 10 designated locations including 5 impact and 5 control stations. A baseline check was conducted on 27 February 2006 prior to the commencement of marine works and a compliance checking mechanism was established in accordance with the criteria specified in Baseline Monitoring Report.

Summary of Mid-Ebb Tide

The lowest DO level for surface & middle and bottom positions were 5.66 mg/L at WWFCZ2 on 29 November 2006 and 5.47 mg/L at WWA1 on 6 November 2006 respectively. There was no exceedance of DO level during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest depth-averaged Tby level was 8.7 Nephelometric Turbidity Unit (NTU) at WWA3 on 8 November 2006. There was no exceedance of Tby level during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest SS level was 31.0 mg/L at WWFCZ2 on 8 November 2006. There were 14 exceedances of SS Baseline Check Criteria on 4, 6, 8, 13, 20, 24 and 27 November 2006 and 1 exceedance of SS Limit Level on 8 November 2006 when compared with the established baseline check criteria in Section 3.3 of this report.

Summary of Mid-Flood Tide

The lowest DO level for surface & middle and bottom positions were 5.70 mg/L at WWFCZ1 on 13 November 2006 and 5.46 mg/L at WWA2 on 6 November 2006 respectively. There was no exceedance of DO levels during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest depth-averaged Tby level was 8.7 NTU at WWA3 and WWFCZ2 on 8 November 2006. There was no exceedance of Tby level during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest SS level was 43.8 mg/L at WWFCZ2 on 8 November 2006. There was 1 exceedance of SS Baseline Check Criteria on 17 November 2006 and 1 exceedance of SS Limit Level on 8 November 2006 when compared with the established baseline check criteria in Section 3.3 of this report.

Environmental Auditing

A total of 5 environmental site audits were conducted on a weekly basis in November 2006. No non-conformance to the environmental requirements was identified during the reporting period. The improvement actions against observations during the site audits for the CT included:

Air quality: Cover excavated materials and exposed slopes;

Water quality: Frequent clearing of mud trails and stagnant water; installation of silt curtain at Seawall B; provision of wheel washing facilities;

Waste Management: Frequent clearing of construction waste and general refuse; and

Chemical Waste Handling: Provision of drip tray to oil drum

Waste Disposal

A total of 61.8 tonnes of Construction & Demolition (C&D) waste and a total of 421.6 tonnes of C&D materials (transported by trucks) were disposed of at SENT/WENT Landfill and Public Filling Reception Facility at Tuen Mun Area 38 respectively in November 2006. No chemical waste was disposed of during the reporting period.

Complaint Records

No environmental complaint was received during the reporting period.

Exceedance

There were exceedances of SS levels for marine water quality in November 2006 when compared with A/L Levels and baseline check criteria.

No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations by ET's field staff during marine water quality monitoring in November 2006. No marine works were being conducted on these days. In addition, high SS levels were recorded at control stations. After ET's investigation, all exceedances were unlikely due to the construction activities of the Project.

Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.

Notification of Summons and Successful Prosecution

No notification of summon and prosecution was received during the reporting period.

Environmental Licences

A new Construction Noise Permit (CNP) was granted during the reporting period.

1 Introduction

Ove Arup & Partners Hong Kong Limited (Arup) was appointed by the Contractor (CT) – Chun Wo Construction & Engineering Co. Ltd as the Environmental Team (ET) for *Contract No. HY/2005/06 Castle Peak Road Improvements – West of Tsing Lung Tau* (hereafter called the “Project”). The reclamation at west of Tsing Lung Tau is covered by an Environmental Permit (EP) No. EP-219/2005 issued in June 2005 with reference to Section 6 of the Technical Memorandum on Environmental Impact Assessment Ordinance (TM-EIAO). The EP was issued following the approval of the application to apply directly for an EP based upon the Project Profile. In accordance with the EM&A Manual, environmental monitoring for construction noise and marine water quality will be required during the construction and operational phases. The construction phase of the Project commenced on 28 February 2006.

1.1 Project Background

The Castle Peak Road (CPR) Improvement works consist of upgrading the existing CPR to provide a dual two-lane carriageway of “Rural Road A” classification between Area 2 (Tusen Wan) and Ka Loon Tsuen. The CPR Improvement project is divided into three contracts, namely HY/99/18 (West Contract), HY/99/19 (Middle Contract) and HY/2000/02 (East Contract).

Prior to inviting tenders for Contract No. HY/99/18, a section of the proposed works, between Ch.1+800 and Ch.2+240, west of Tsing Lung Tau, was excised from the Project and entrusted to the Route 10 – North Lantau to Yuen Long Highway project. This 440m long section of CPR was located under the proposed Route 10 suspension bridge, and was to form part of the works area for the Route 10 project. The Route 10 project team revised the alignment of this section of CPR accordingly to suit the arrangement of the Route 10 suspension bridge.

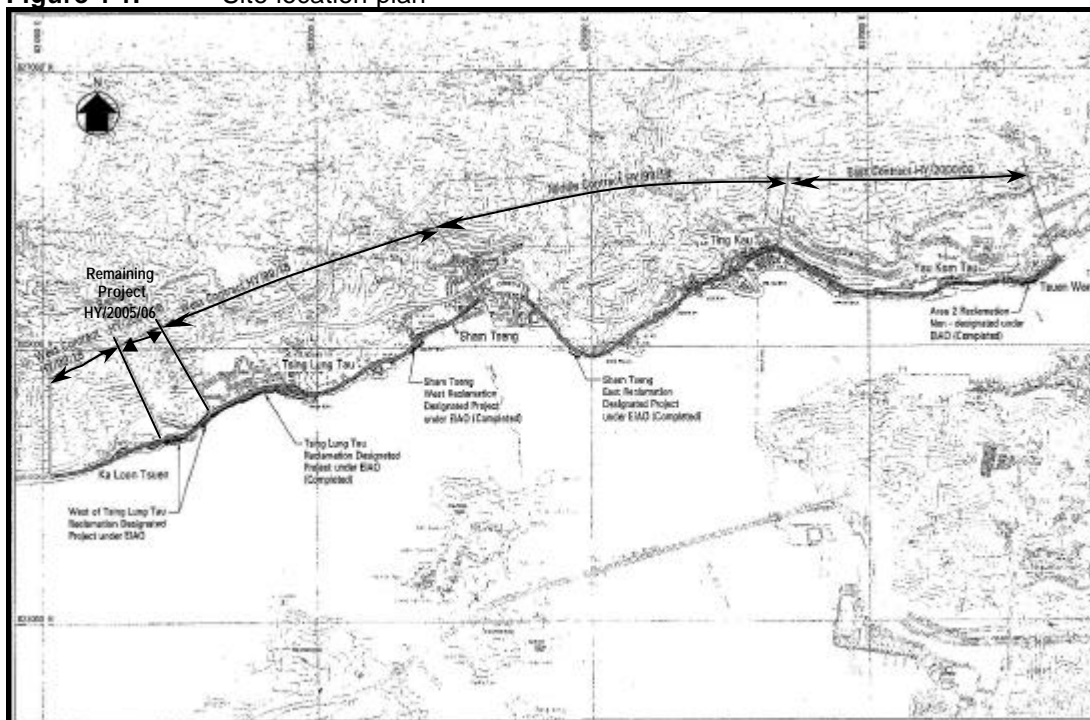
Following subsequent developments, the Route 10 project was placed under review, and Government therefore decided to implement the excised section of CPR (the Remaining Project) under the original CPR Improvement project. **Figure 1-1** shows the site location plan.

Additional reclamation (0.58 ha) at west of Tsing Lung Tau is required to support part of the remaining section of road improvement works and the additional reclamation works constitutes a material change to the reclamation works at Tsing Lung Tau.

The scope of the construction works covered by this Project is summarised as follows:

- The area of reclamation to the east of Grand Bay Villa is about 0.12 ha. The length of this part of the reclamation, measured parallel to the road, is about 107 m, and the maximum width, measured from the existing High Water Mark (HWM) to the proposed toe of the scour apron is about 16 m, of which about 13 m is sloping revetment;
- The area of reclamation west of Grand Bay Villa is about 0.46 ha. The length of this part of the reclamation, measured parallel to the road, is about 172 m, and the maximum width, measured from the existing High Water Mark (HWM) to the proposed toe of the scour apron is about 38 m, of which about 15 m is sloping revetment.

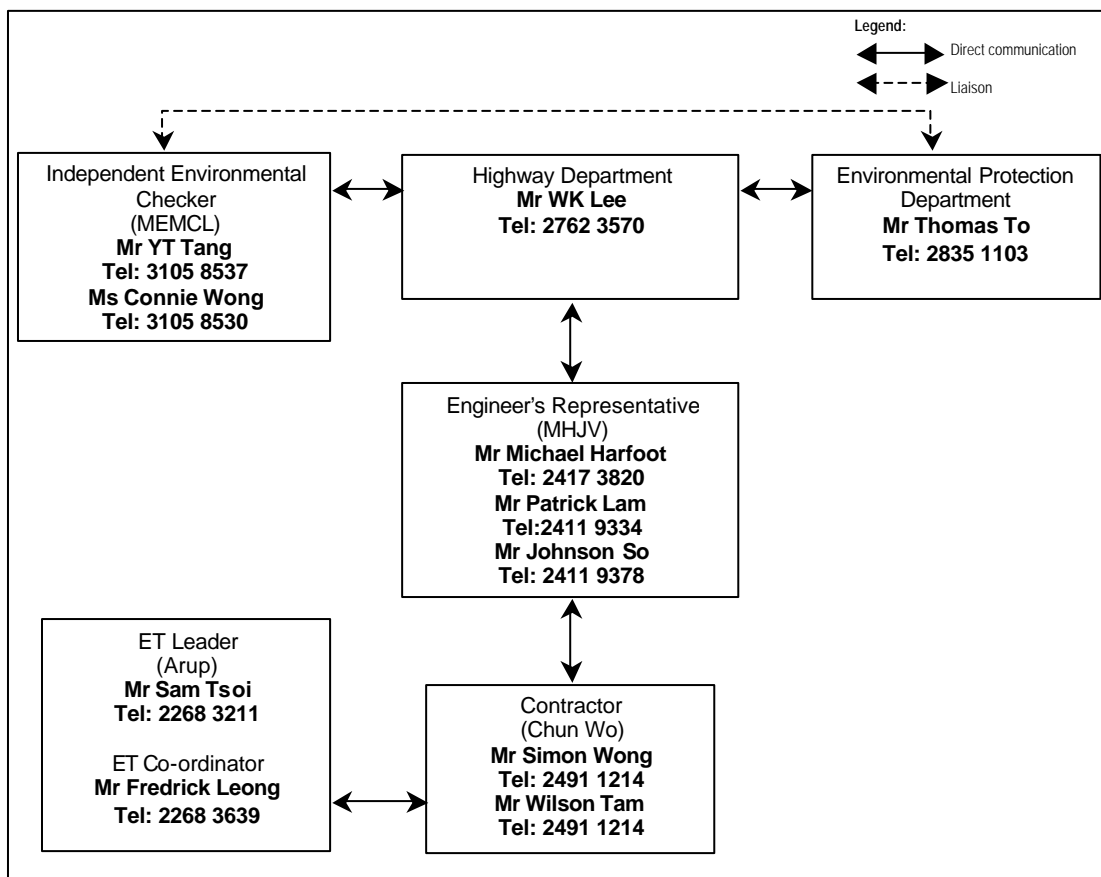
Figure 1-1: Site location plan



1.2 Project Organisation

The project organisation chart for environmental management is shown in **Figure 1.2**.

Figure 1-2: Project organisation chart



The Project Proponent is Highway Department; the Engineer's Representative (ER) is Meinhardt Halcrow Joint Venture (MHJV); the Contractor (CT) is Chun Wo Construction & Engineering Co. Ltd; the Independent Environmental Checker (IEC) is Maunsell Environmental Management Consultants Ltd (MEMCL) and the ET leader is Ove Arup & Partners Hong Kong Ltd (Arup).

The overall duties of ET Leader and the team are as follows:

- sampling, analysis and statistical evaluation of monitoring parameters with reference to the EIA study and subsequent reviews recommendations and requirements in respect of noise, dust and water quality;
- environmental site surveillance;
- audit of compliance with environmental protection and pollution prevention and control regulations;
- monitor the implementation of environmental mitigation measures;
- monitor compliance with the environmental protection clauses/specifications in the Contract;
- review construction programme and comment as necessary;
- review construction methodology and comment as necessary;
- complaint investigation, evaluation and identification of corrective measures;
- audit of the effectiveness of mitigation measures and EMS (if applicable) and recommend and implement any changes as appropriate.
- liaison with IEC on all environmental performance matters;
- advice to the CT on environmental improvement, awareness, enhancement matter, etc., on site; and
- Timely submission of the EM&A reports to the ER, IEC and DEP.

The duties of IEC include the followings:

- review and audit all aspects of the EM&A programme;
- validate and confirm the accuracy of monitoring results, monitoring equipment, monitoring locations, monitoring procedures and locations of sensitive receivers;
- carry out random sample check and audit on monitoring data and sampling procedures, etc;
- conduct random site inspection;
- audit the EIA, subsequent reviews and Environmental Permit recommendations and requirements against the status of implementation of environmental protection measures on site.
- review the effectiveness of environmental mitigation measures and project environmental performance;
- audit the CT's construction methodology and agree the least impact alternative in consultation with ET Leader and the CT;
- check compliant cases and the effectiveness of corrective measures;
- review EM&A report submitted by the ET Leader; and
- feedback audit results to ET Leader by signing off relevant EM&A proformas.

1.3 Impact EM&A Requirements

The impact environmental monitoring and audit for the Project included noise, marine water quality and environmental site audit.

1.4 Purpose of the Report

The purpose of the monthly EM&A report is to provide the information on monitoring methodology, monitoring results, environmental permit status, site audit findings, recommendations and conclusions for the scope of impact EM&A specified under EP No. EP-219/2005.

This is the ninth monthly EM&A report summarising the monitoring methodology, locations, periods, frequencies, results and any observation from the noise, marine water quality and environmental site audit from 1 November 2006 to 30 November 2006.

2 Scope of Construction Works

2.1 Construction Programme

The construction work was commenced on 28 February 2006. An up-to-date construction programme is attached in **Appendix A**.

2.2 Construction Activities of the Month

The major construction activities carried out by CT in November 2006 included:

- Construction of upper RC retaining wall and backfilling at Seawall A; and
- Backfilling and complete Rock Armour at Seawall B.

3 Summary of EM&A Requirements

Marine water quality and noise monitoring at Grand Bay Villa will be conducted by an ET at all specified monitoring locations during the construction stage. Environmental site audits will also be carried out.

The monitoring schedule for November 2006 and the tentative schedule for December 2006 are attached in **Appendix B**.

3.1 Construction Noise

3.1.1 Monitoring Parameters

Construction noise monitoring will be measured in terms of the A-weighted equivalent continuous sound pressure level (L_{eq}). L_{10} and L_{90} will also be recorded as supplementary reference information for data auditing.

3.1.2 Monitoring Frequency

Noise measurements will be conducted on a weekly basis. The monitoring time periods, monitoring parameters and frequency are summarised in **Table 3-1**.

Table 3-1: Construction noise monitoring parameters and frequency

Time Period (when construction activity is found)	Parameters	Monitoring Frequency	No. of Measurements for Each Monitoring
Between 0700-1900 hours on normal weekdays	$L_{eq}(30 \text{ min})$	Once per week	1
Between 1900-2300 hours on normal weekdays	$L_{eq}(5 \text{ min})^*$		3 (consecutive)
Between 2300-0700 hours of next day			
Between 0700-1900 hours on holidays			

* The $L_{eq}(5 \text{ min})$ will only be measured if construction activities are conducted in holidays and between the period of 1900 and 0700 hours during normal weekdays.

3.1.3 Monitoring Location

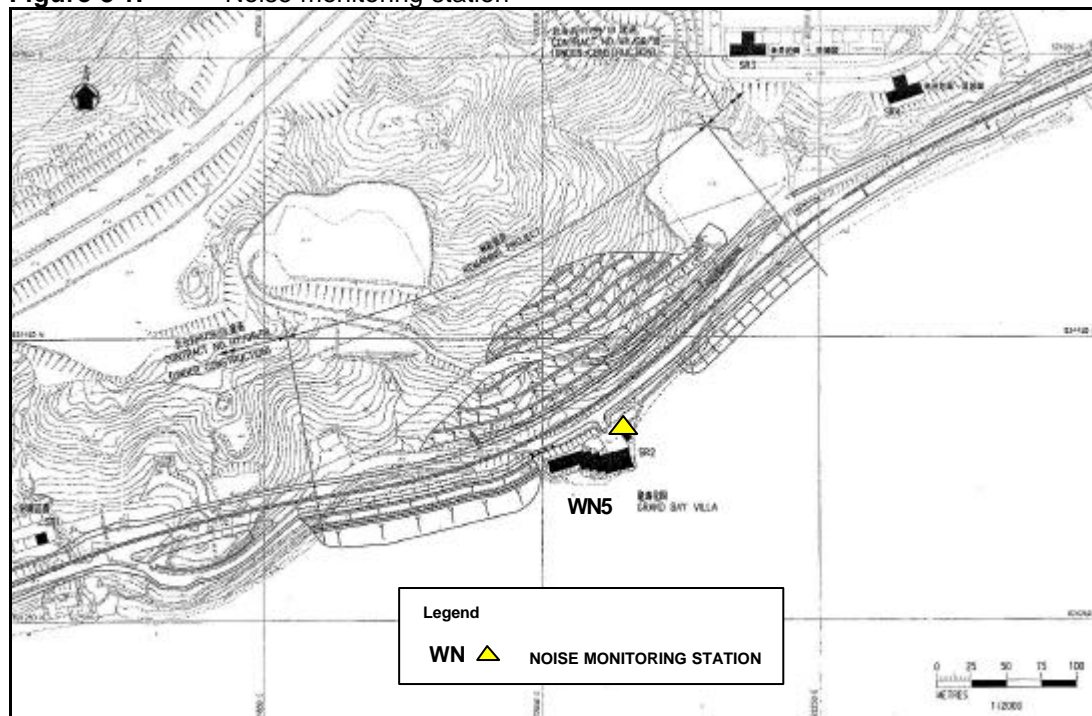
Noise monitoring will be conducted at one designated location as shown in **Figure 3-1**. The details of the noise monitoring location are given in **Table 3-2**. The measurements will be taken at a position 1m from the exterior of building façade and at a position of 1.2m above ground.

Table 3-2: Construction noise monitoring locations

Noise Monitoring Station No.	Location	Monitoring Point	Remarks
WN5	Grand Bay Villa	G/F, House 1	Monitoring temporarily suspended *

* Grand Bay Villa is currently vacant with no resident. Construction noise monitoring at WN5 temporarily suspended until the premises are occupied.

Figure 3-1: Noise monitoring station



3.2 Marine Water Quality

3.2.1 Monitoring Parameters

Marine water quality monitoring will include Turbidity (Tby) in the unit of NTU, Dissolved Oxygen (DO) in the unit of mg/L and Suspended Solids (SS) in the unit of mg/L. In addition to the water quality parameters, other relevant data such as monitoring location/position, time, water depth, water temperature, salinity, DO saturation, weather conditions, sea conditions, tidal stage will be recorded as far as practicable together with observations of any special phenomena, works underway at the construction site, etc.

3.2.2 Monitoring Frequency

Impact marine water quality monitoring will be conducted three times per week, at mid-flood and mid-ebb tides and at 10 designated monitoring locations. The interval between two sets of monitoring will not be less than 36 hours.

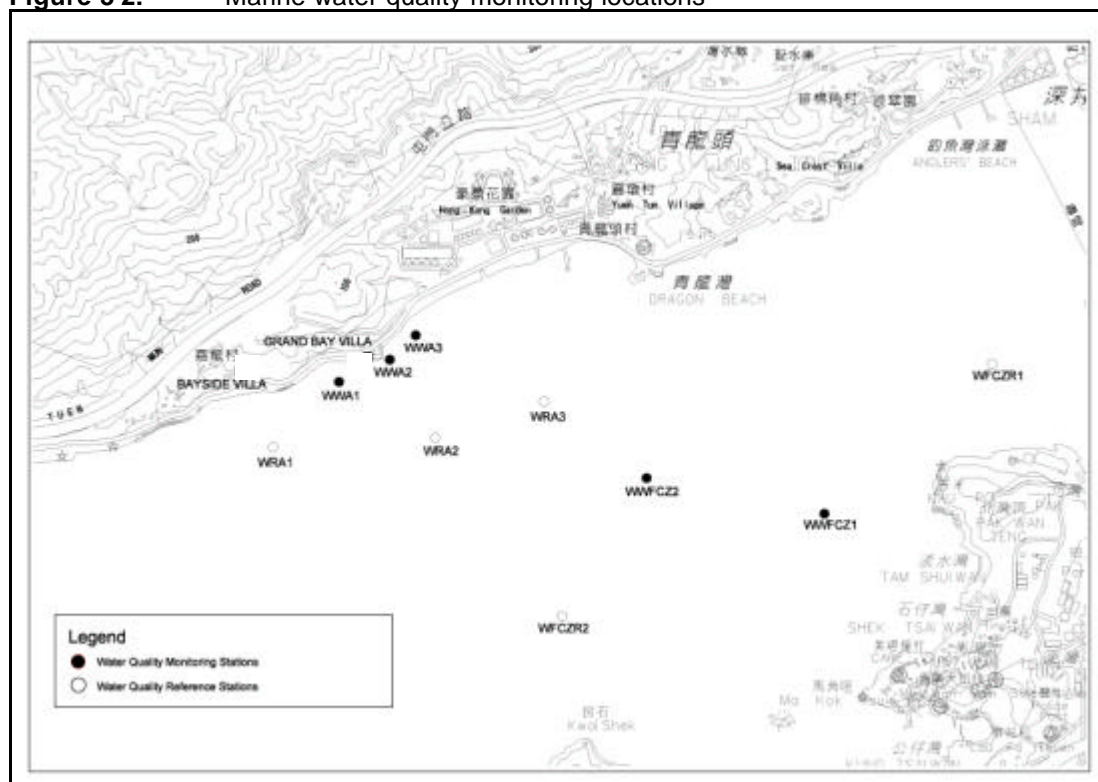
3.2.3 Monitoring Locations

A total of 10 locations, 5 for impact and 5 for control were specified for marine water quality monitoring in accordance with the EM&A Manual, which are summarised in **Table 3-3** and shown in **Figure 3-2**.

Table 3-3: Marine water quality monitoring locations

Marine Water Quality Monitoring Location No.		Location	
		Eastings	Northings
West of Grand Bay Villa	WWA1 (Impact Location)	821981	824282
	WRA1 (Control Location)	821776	824078
Grand Bay Villa	WWA2 (Impact Location)	822141	824352
	WRA2 (Control Location)	822283	824107
East of Grand Bay Villa	WWA3 (Impact Location)	822222	824429
	WRA3 (Control Location)	822625	824222
Ma Wan Fish Culture Zone	WWFCZ1 (Impact Location)	823500	823870
	WWFCZ2 (Impact Location)	822943	823983
	WFCZR1 (Control Location)	824024	824333
	WFCZR2 (Control Location)	822677	823547

Figure 3-2: Marine water quality monitoring locations



3.3 Performance Limits and Event and Action Plan

The monitoring results will be checked against appropriate standards and requirements. A two-tier system performance limits have been established in the Project specific EM&A Manual. The “Action Level” and the “Limit Level” (A/L) are established according to the EPD requirements. The ET, ER, IEC, and CT will take corresponding action in accordance with the Event-Action Plans if the monitoring results exceed the performance limits.

3.3.1 Construction Noise

The A/L Levels for the construction noise have been established during the baseline monitoring as summarised in **Table 3-4**.

Table 3-4: Action and Limit Levels of construction noise

Time Period	Action Level	Limit Level
0700 - 1900 hours on any day not being a Sunday or public holiday	When one documented complaint is received	75dB(A)

The action required to be taken by different parties in the case of exceedance of A/L Levels are summarised in the Event and Action Plan in **Table 3-5**.

Table 3-5: Event and Action Plan for construction noise

Event	Action			
	ET Leader	IEC	ER	CT
Action Level	<ol style="list-style-type: none"> 1. Notify IEC and the CT. 2. Carry out investigation. 3. Report the results of investigation to the IEC and the CT. 4. Discuss with the CT and formulate remedial measures. 5. Increase monitoring frequency to check mitigation effectiveness. 	<ol style="list-style-type: none"> 1. Review with the analysed results submitted by ET. 2. Review the proposed remedial measures by the CT and advise ER accordingly. 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of exceedance in writing. 2. Notify the CT. 3. Require the CT to propose remedial measures for the analysed noise problem. 4. Ensure remedial measures are properly implemented. 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IEC. 2. Implement noise mitigation proposals.
Limit Level	<ol style="list-style-type: none"> 1. Notify the IEC, the ER, the DEP and the CT. 2. Identify the source. 3. Repeat measurement to confirm findings. 4. Increase monitoring frequency. 5. Carry out analysis of CT's working procedures to determine possible mitigation to be implemented. 6. Inform the IEC, the ER, and the DEP the causes & actions taken for the exceedances. 7. Assess effectiveness of the CT's remedial actions and keep the IEC, the DEP and the ER informed of the results. 8. If exceedance stops, cease additional monitoring 	<ol style="list-style-type: none"> 1. Discuss amongst the ER, the ET Leader and the CT on the potential remedial actions. 2. Review the CT's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of exceedance in writing. 2. Notify the CT. 3. Require the CT to propose remedial measures for the analysed noise problem. 4. Ensure remedial measures are properly implemented. 5. If exceedance continues, consider what activity of the work is responsible and instruct the CT to stop that activity of work until the exceedance is abated. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance. 2. Submit proposals for remedial actions to IEC within 3 working days of notification. 3. Implement the agreed proposals. 4. Resubmit proposals if problem still not under control. 5. Stop the relevant activity of works as determined by the ER until the exceedance is abated.

3.3.2 Marine Water Quality

Based on the baseline water quality monitoring data obtained. The A/L levels established using the baseline marine water quality monitoring data are shown in **Table 3-6**. If the water quality monitoring results at any impact stations exceeded the criteria, the actions in accordance with the Event-Action Plan in **Table 3-8** should be carried out.

As the baseline monitoring was conducted in September to October 2005, the established A/L Levels will be more representative to the marine water quality during summer months. To cope with any potential variation of baseline levels due to change in weather conditions, baseline check will be conducted in bi-annual basis in order to update any variation of the baseline water quality at the monitoring locations.

The first baseline check was conducted on 27 February 2006 prior to the commencement of marine works and the updated marine water quality monitoring data were summarised in **Table 3-7**. Compliance assessment for future impact monitoring data will be made against the updated baseline check criteria as follows:

- Tier 1 - Comparison of water quality monitoring data at Impact Stations with the A/L Levels (**Table 3-6**) established in the Baseline Monitoring Report. If the data comply with A/L Levels, go to Tier 2. Otherwise, non-compliance will be reported and Event and Action Plan will be triggered.
- Tier 2 - Comparison of water quality monitoring data at Impact Stations with the Baseline Check Level (80% of average values of baseline check data collected at 10 monitoring locations for DO and 120% of average values of baseline check data collected at 10 monitoring locations for Tby and SS) (**Table 3-7**). If the impact water quality is better than Baseline Check Level, compliance will be reported. Otherwise, go to Tier 3.
- Tier 3 - Comparison of water quality monitoring data at Impact Stations with the respective Control Stations. If the impact water quality is better than the respective Control Station, compliance will be reported. Otherwise, non-compliance will be reported and Event-Action Plan will be triggered for implementation of action based on exceedance of Action Level.

Table 3-6: Action and Limit Levels of marine water quality established in Baseline Monitoring Report #

Parameters		Monitoring locations									
		WWA1		WWA2		WWA3		WWFCZ1		WWFCZ2	
		Action Level	Limit Level	Action Level	Limit Level	Action Level	Limit Level	Action Level	Limit Level	Action Level	Limit Level
Mid-ebb											
DO (mg/L)	Surface & middle	3.5	3.5	3.5	3.4	3.4	3.3	5.0 *	5.0	5.0 *	5.0
	Bottom	3.4	3.4	3.4	3.3	3.4	3.2	3.7	2.0	3.6	2.0
Tby (NTU)		7.4	7.7	6.7	6.9	7.8	8.3	6.4	8.6	6.7	7.0
SS (mg/L)		25.3	26.0	22.2	23.1	24.6	25.2	26.3	30.3	22.6	22.9
Mid-flood											
DO (mg/L)	Surface & middle	3.3	3.3	3.4	3.3	3.5	3.3	5.0 *	5.0	5.0 *	5.0
	Bottom	3.2	3.2	3.2	3.2	3.2	3.2	3.3	2.0	3.5	2.0
Tby (NTU)		6.9	7.2	7.6	8.2	8.7	10.7	7.4	11.0	5.9	6.5
SS (mg/L)		24.1	24.3	23.5	23.6	22.3	23.5	24.4	25.8	27.4	28.0

Notes:

Action and Limit Level for marine water quality were extracted from Baseline Monitoring Report, April 2006.

* Based on the criteria in Table 4-6 of Baseline Monitoring Report, the originally established action levels of DO for fish culture zone at surface & middle level were all below the 5.0 mg/L.

Table 3-7: Marine water quality data obtained in the baseline check on 27 February 2006

Parameters		Monitoring locations				
		WWA1	WWA2	WWA3	WWFCZ1	WWFCZ2
Mid-ebb						
DO (mg/L)	Surface & middle	5.4	5.4	5.4	5.4	5.4
	Bottom	5.4	5.4	5.4	5.4	5.4
Tby (NTU)		6.5	6.5	6.5	6.5	6.5
SS (mg/L)		13.0	13.0	13.0	13.0	13.0
Mid-flood						
DO (mg/L)	Surface & middle	5.3	5.3	5.3	5.3	5.3
	Bottom	5.3	5.3	5.3	5.3	5.3
Tby (NTU)		6.6	6.6	6.6	6.6	6.6
SS (mg/L)		17.0	17.0	17.0	17.0	17.0

Table 3-8: Event-Action plan for marine water quality

Event	Action			
	ET Leader	IEC	ER	CT
Action Level				
Action level being exceeded by one sampling day	<ol style="list-style-type: none"> Repeat in-situ measurement to confirm findings. Identify source(s) of impact. Inform the IEC and the CT. Check monitoring data, all plant, equipment and the CT's working methods. Discuss mitigation measures with the IEC and the CT. Repeat measurement on next day of exceedance. 	<ol style="list-style-type: none"> Discuss with the ET Leader and the CT on the mitigation measures. Review proposals on mitigation measures submitted by the CT and advised the ER accordingly. Assess the effectiveness of the implemented mitigation measures. 	<ol style="list-style-type: none"> Discuss with the IEC on the proposed mitigation measures. Make agreement on the mitigation measures to be implemented. 	<ol style="list-style-type: none"> Inform the ER and confirm notification of the non-compliance in writing. Rectify unacceptable practice. Check all plants and equipment. Consider changes of working methods. Discuss with the ET Leader and the IEC and propose mitigation measures to the IEC and the ER. Implement the agreed mitigation measures.
Action level being exceeded by more than one consecutive days	<ol style="list-style-type: none"> Repeat in-situ measurement to confirm findings. Identify source(s) of impact. Inform the IEC and the CT. Check monitoring data, all plant, equipment and the CT's working methods. Discuss mitigation measures with the IEC and the CT. Ensure mitigation measures are implemented. Prepare to increase the monitoring frequency to daily. Repeat measurement on next day of exceedance. 	<ol style="list-style-type: none"> Discuss with the ET Leader and the CT on the mitigation measures. Review proposals on mitigation measures submitted by the CT and advised the ER accordingly. Assess the effectiveness of the implemented mitigation measures. 	<ol style="list-style-type: none"> Discuss with IEC on the proposed mitigation measures. Make agreement on the mitigation measures to be implemented. Assess the effectiveness of the implemented mitigation measures. 	<ol style="list-style-type: none"> Inform the ER and confirm notification of the non-compliance in writing. Rectify unacceptable practice. Check all plants and equipment. Consider changes of working methods. Discuss with the ET Leader and the IEC and propose mitigation measures to the IEC and the ER within 3 working days. Implement the agreed mitigation measures.
Limit Level				
Limit level being exceeded by one sampling day	<ol style="list-style-type: none"> Repeat in-situ measurement to confirm findings. Identify source(s) of impact. Inform the IEC, the CT and the DEP. Check monitoring data, all plant, equipment and the CT's working methods. Discuss mitigation measures with the IEC, the ER and the CT. Ensure mitigation measures are implemented. Increase the monitoring frequency to daily until no exceedance of the Limit Level. 	<ol style="list-style-type: none"> Discuss with the ET Leader and the CT on the mitigation measures. Review proposals on mitigation measures submitted by the CT and advised the ER accordingly. Assess the effectiveness of the implemented mitigation measures. 	<ol style="list-style-type: none"> Discuss with IEC, the ET Leader and the CT on the proposed mitigation measures. Request the CT to critically review the working methods. Make agreement on the mitigation measures to be implemented. Assess the effectiveness of the implemented mitigation measures. 	<ol style="list-style-type: none"> Inform the ER and confirm notification of the non-compliance in writing. Rectify unacceptable practice. Check all plants and equipment. Consider changes of working methods. Discuss with the ET Leader, the IEC and the ER, and propose mitigation measures to the IEC and the ER within 3 working days. Implement the agreed mitigation measures.
Limit level being exceeded by more than one consecutive days	<ol style="list-style-type: none"> Repeat in-situ measurement to confirm findings. Identify source(s) of impact. Inform the IEC, the CT and the DEP. Check monitoring data, all plant, equipment and the CT's working methods. Discuss mitigation measures with the IEC, the ER and the CT. Ensure mitigation measures are implemented. Increase the monitoring frequency to daily until no exceedance of the Limit Level for two consecutive days. 	<ol style="list-style-type: none"> Discuss with the ET Leader and the CT on the mitigation measures. Review proposals on mitigation measures submitted by the CT and advised the ER accordingly. Assess the effectiveness of the implemented mitigation measures. 	<ol style="list-style-type: none"> Discuss with IEC, the ET Leader and the CT on the proposed mitigation measures. Request the CT to critically review the working methods. Make agreement on the mitigation measures to be implemented. Assess the effectiveness of the implemented mitigation measures. Consider and instruct, if necessary, the CT to slow down or to stop all or part of the marine work until no exceedance of Limit Level. 	<ol style="list-style-type: none"> Inform the ER and confirm notification of the non-compliance in writing. Rectify unacceptable practice. Check all plants and equipment. Consider changes of working methods. Discuss with the ET Leader, the IEC and the ER, and propose mitigation measures to the IEC and the ER within 3 working days. Implement the agreed mitigation measures. As directed by the ER, slow down or stop all or part of the construction activities.

3.4 Site Inspection and Environmental Complaint Handling

3.4.1 Site Inspection Frequency and Areas Covered

Regular site inspections will be carried out on a weekly basis. The areas of inspection cover the different environmental impacts, such as air, noise, water and waste, and their pollution controls and mitigation measures for both within and outside the site area.

Ad hoc site inspection will be carried out if significant environmental non-compliance is identified. Inspections may also be carried out subsequent to receipt of any environmental complaints, or as part of the investigation work, as specified in the Event and Action Plans.

3.4.2 Site Inspection Procedures

- a) The CT and/or ER will advise the Environmental Auditor (EA) of the ET for all information on any environmental related aspects.
- b) The EA will discuss with the CT and/or ER to sort out and forecast any potential environmental impact.
- c) The EA will conduct a site walk with the CT and/or ER, particularly the areas with extensive construction works.
- d) The EA will conduct inspection for the main environmental facilities and measures such as wheel washing facilities located at site exits, water spraying truck, temporary noise barrier, and internal noise-reducing measures of the heavy equipment etc, to ensure that these environmental facilities operate normally and effectively.
- e) The EA will fill up a site inspection checklist during the site inspection for recording any special observations.
- f) The EA will conduct post-discussion with the CT and/or ER for the establishment of additional/special measures if any non-conformance is found. The completion date for such additional measures will be confirmed during the post-discussion.
- g) The EA will propose a reasonable timeframe together with the CT and/or ER, for the preparation of the proposal for remediation of environmental non-compliance.
- h) The completed site inspection checklist will be signed by the EA, the CT and/or ER, for reference and for taking action in accordance with the agreed procedures, reporting systems and time frame.

3.4.3 Environmental Complaints

A 24-hour complaint hotline at 6277 7465 has been established for the Project. In accordance with the EM&A Manual, environmental complaints will be referred to the ET for initiation of the complaint investigation procedures. The ET will undertake the following procedures upon receipt of complaints:

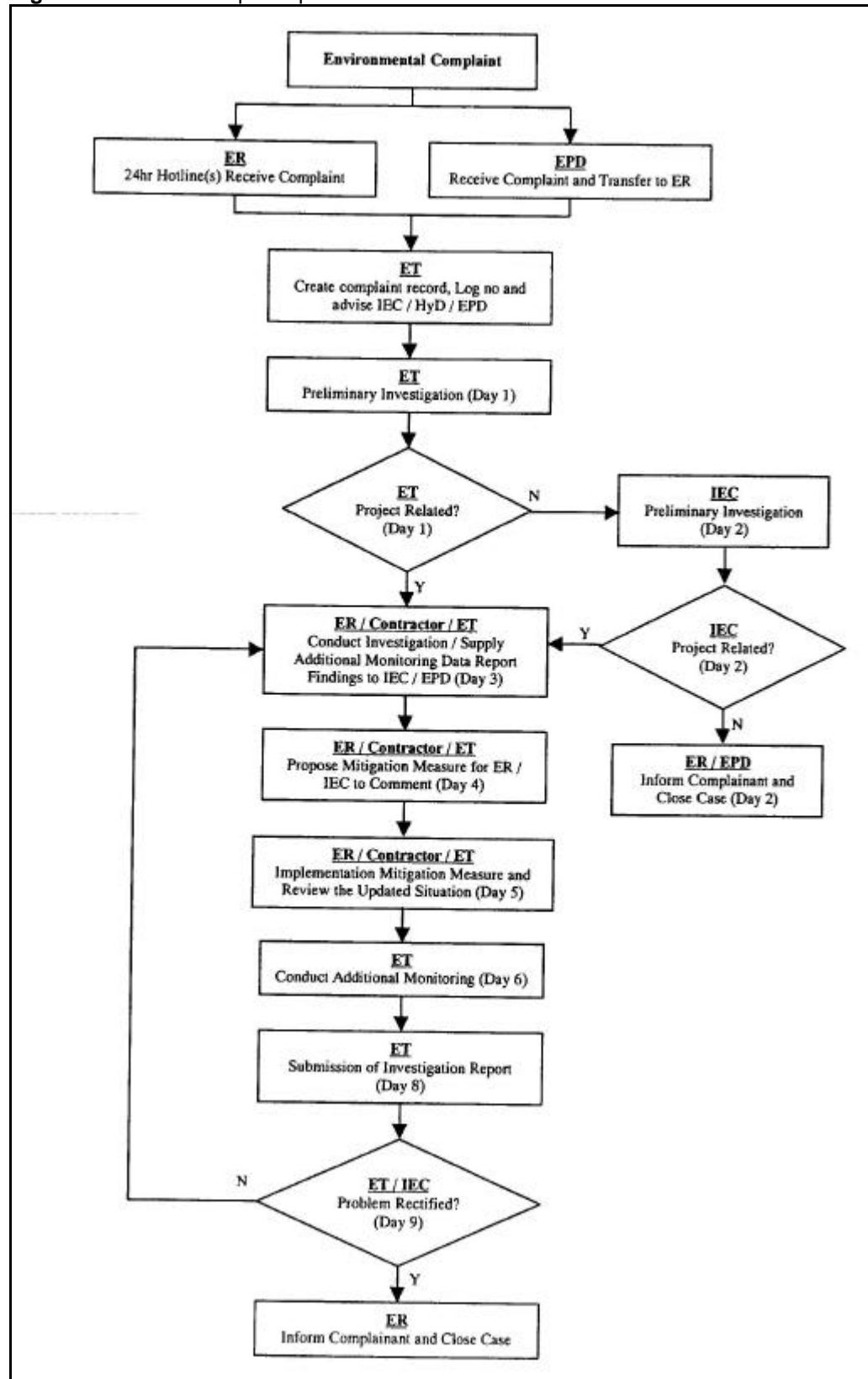
- a) The ET will record the details of the complaint and the date of receipt into the complaint database, and inform ER immediately.
- b) The ET will perform compliant investigation to determine its validity and to assess whether the source of the problem is due to work activities.
- c) The ER will instruct the CT to identify mitigation measures in consultation with the ET, if the compliant is valid and due to works.
- d) The ET will liaise with the CT on their mitigation measure proposals and implementation, if required.

- e) The ET will conduct review of the CT's response on the identified mitigation measures, and of the updated situation.
- f) The ET will submit interim report to EPD if the complaint is received via EPD. The interim report will clearly state the status of the complaint investigation and the follow-up action within the time frame assigned by EPD.
- g) The ET will undertake additional monitoring and audit to verify the situation if necessary, and ensure that any valid reason for complaint does not recur.
- h) The ET will report on the investigation results and the subsequent actions to the source of complaint for responding to the complainant. If the source of complaint is via EPD, the results will be reported within the time frame assigned by EPD.
- i) The ET will record the details of the complaint, investigation, subsequent actions and results in the monthly EM&A report.

During the complaint investigation work undertaken by the ET, the CT and ER should cooperate with the ET on providing all the necessary information and assistance for completion of the investigation. If mitigation measures are identified as necessary after the investigation, the CT should promptly carry out the required mitigation to the satisfaction of ET. The ER should ensure that the CT has carried out such identified measures.

A flow chart of the complaint response procedures is shown in **Figure 3-3** for reference.

Figure 3-3: Complaint procedure



4 Noise Monitoring

4.1 Monitoring Equipment

Details of the integrating sound level meters used in the noise monitoring are shown in **Table 5-1**.

Table 5-1: Equipment list for construction noise monitoring

Equipment	Manufacturer & Model No.	Precision Grade	Qty.
Integrating sound level meter	Rion NA-27	IEC 651 Type 1 IEC 804 Type 1	1
Windshield	Brüel & Kjær UA0237		1
Acoustical calibrator	Brüel & Kjær 4226		1
LCD wind speed indicator	Kestrel Vane Anemometer	--	1

4.2 Methodology

4.2.1 Occupancy Status of Grand Bay Villa

The property management company of Grand Bay Villa (WN5) will be coordinated a monthly basis within 10 working days of each month to confirm the occupancy status of these premises. Once this location is confirmed occupied, noise monitoring will be resumed within 1 week.

4.2.2 Field Measurement

- The sound level meter and battery were checked to ensure that they were in proper condition.
- The sound level meter was set on a tripod at 1.2m above ground and at 1m from the exterior of the building façade.
- Before conducting the measurement, the sound level meter was calibrated by an acoustical calibrator.
- The measurement parameter was set to A-weighted sound pressure level. The time weighting was set in fast response and the time period of measurement at 30 minutes.
- The wind speed was checked during noise monitoring to ensure the steady wind speed did not exceed 5m/s, or wind with gusts did not exceed 10m/s.
- Any abnormal conditions that generated intrusive noise during the measurement were recorded on the field record sheet.
- After each measurement, the equivalent continuous sound pressure level (L_{eq}), L_{10} and L_{90} were recorded on the field record sheet.
- The sound level meter was re-calibrated by the acoustical calibrator to confirm that there was no significant drift of reading.

4.2.3 Equipment Maintenance and Calibration

All sound level meters comply with the standards of IEC 651 (Fast, Slow, Impulse RMS detector tests) and IEC 804 (L_{eq} functions). The acoustical calibrator model no. 4226 complies with IEC 942.

4.3 Results and Observations

4.3.1 Occupancy Status of Grand Bay Villa

In the reporting period, Grand Bay Villa (WN5) was vacant with no resident and noise monitoring was temporarily suspended.

5 Marine Water Quality Monitoring

5.1 Marine Water Quality Monitoring Equipment

Monitoring of Turbidity (Tby) in NTU, Dissolved Oxygen (DO) in mg/L and Suspended Solids (SS) in mg/L was carried to ensure that any deteriorating water quality would be readily detected and timely action would be taken to rectify the situation. Tby and DO were measured in-situ while SS was determined in the laboratory. A list of the marine water quality monitoring equipment is summarised in **Table 5-1**.

Table 5-1: Marine water quality monitoring equipment

Equipment	Manufacturer & Model No.	Qty
Handheld DO, Temperature & Salinity Meter	YSI Model 85	1
pH meter	Hanna	1
Turbidimeter	HACH 2100P	1

5.2 Methodology

5.2.1 DO, Temperature and Salinity Measuring Equipment

The equipment to measure DO, temperature and salinity complied with the following:

- i. The instrument was a portable, weatherproof dissolved oxygen measuring instrument complete with cable and used a DC power source. It was capable of measuring:
 - A dissolved oxygen level in the range of 0-20 mg/L and 0-200% saturation;
 - A temperature of 0-45°C; and
 - A salinity level in the range of 0-40 ppt.
- ii. It had a membrane electrode with automatic temperature compensation complete with a cable.

5.2.2 Tby Measurement Instrument

The instrument was a portable, weatherproof turbidity-measuring instrument complete with comprehensive operations manual. The equipment used a DC power source. It had a photoelectric sensor capable of measuring turbidity between 0-1000 NTU and was complete with a cable.

5.2.3 SS

The following equipment was used to monitor the SS:

- i. A water sampler comprised a transparent PVC cylinder, with a capacity of not less than 2 litres and which can be effectively sealed with latex cups at both ends. The sampler had a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler was at the selected water depth.
- ii. Water samples for SS measurement were collected in high density polythene bottles, packed in ice (cooled at 4°C without being frozen) and delivered to the laboratory as soon as possible after collection.

5.2.4 Water Depth Detector

A portable, battery-operated echo sounder was used for the determination of water depth at each designated monitoring.

5.2.5 Location of the Monitoring Site

A hand-held Global Positioning System (GPS) was used during monitoring to ensure the monitoring vessel was at the correct location before taking measurements.

5.2.6 Calibration and Accuracy of Instrumentation

All *in-situ* monitoring instruments were checked, calibrated and certified by a HOKLAS accredited laboratory or any other international accreditation scheme before use, and subsequently re-calibrated at 3 monthly intervals throughout all stages of the water quality monitoring. Response of sensors and electrodes were checked with certified standard solutions before each use. Wet bulb calibration for a DO meter was carried out before measurement at each monitoring location. The calibration certificates are attached in **Appendix C**. For the on site calibration of field equipment, the BS 1427:1993, "Guide to Field and on-site test methods for the analysis of waters" was followed.

5.3 Results and Observations

5.3.1 Weather Conditions and Other Factors

Amber rainstorm warning was hoisted on 21 November 2006.

5.3.2 Summary of Results

Impact marine water quality monitoring was undertaken during mid-ebb and mid-flood tidal cycles at 10 designated locations including 5 impact and 5 control stations. A baseline check was conducted on 27 February 2006 prior to the commencement of marine works and a compliance checking mechanism was established in accordance with the Baseline Monitoring Report. Detailed water quality monitoring results are given in **Appendix D**. Graphical presentation of the monitoring results are illustrated in **Figures 5-1 to 5-8**.

Summary of Mid-Ebb Tide

The lowest DO level for surface & middle and bottom positions were 5.66 mg/L at WWFCZ2 on 29 November 2006 and 5.47 mg/L at WWA1 on 6 November 2006 respectively. There was no exceedance of DO level during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest depth-averaged Tby level was 8.7 Nephelometric Turbidity Unit (NTU) at WWA3 on 8 November 2006. There was no exceedance of Tby level during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest SS level was 31.0 mg/L at WWFCZ2 on 8 November 2006. There were 14 exceedances of SS Baseline Check Criteria on 4, 6, 8, 13, 20, 24 and 27 November 2006 and 1 exceedance of SS Limit Level on 8 November 2006 when compared with the established baseline check criteria in Section 3.3 of this report.

Summary of Mid-Flood Tide

The lowest DO level for surface & middle and bottom positions were 5.70 mg/L at WWFCZ1 on 13 November 2006 and 5.46 mg/L at WWA2 on 6 November 2006 respectively. There was no exceedance of DO levels during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest depth-averaged Tby level was 8.7 NTU at WWA3 and WWFCZ2 on 8 November 2006. There was no exceedance of Tby level during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest SS level was 43.8 mg/L at WWFCZ2 on 8 November 2006. There was 1 exceedance of SS Baseline Check Criteria on 17 November 2006 and 1 exceedance of SS Limit Level on 8 November 2006 when compared with the established baseline check criteria in Section 3.3 of this report.

Figure 5-1: DO levels (surface and middle level) at mid-ebb tide in November 2006

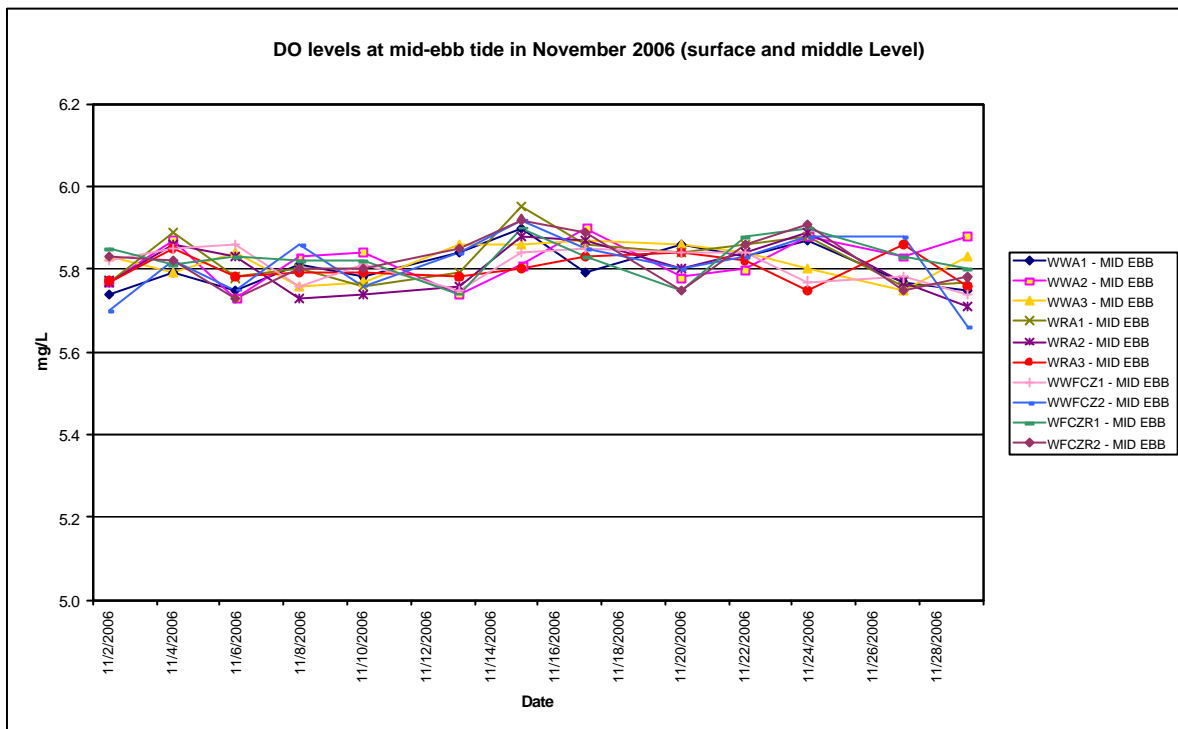


Figure 5-2: DO levels (bottom level) at mid-ebb tide in November 2006

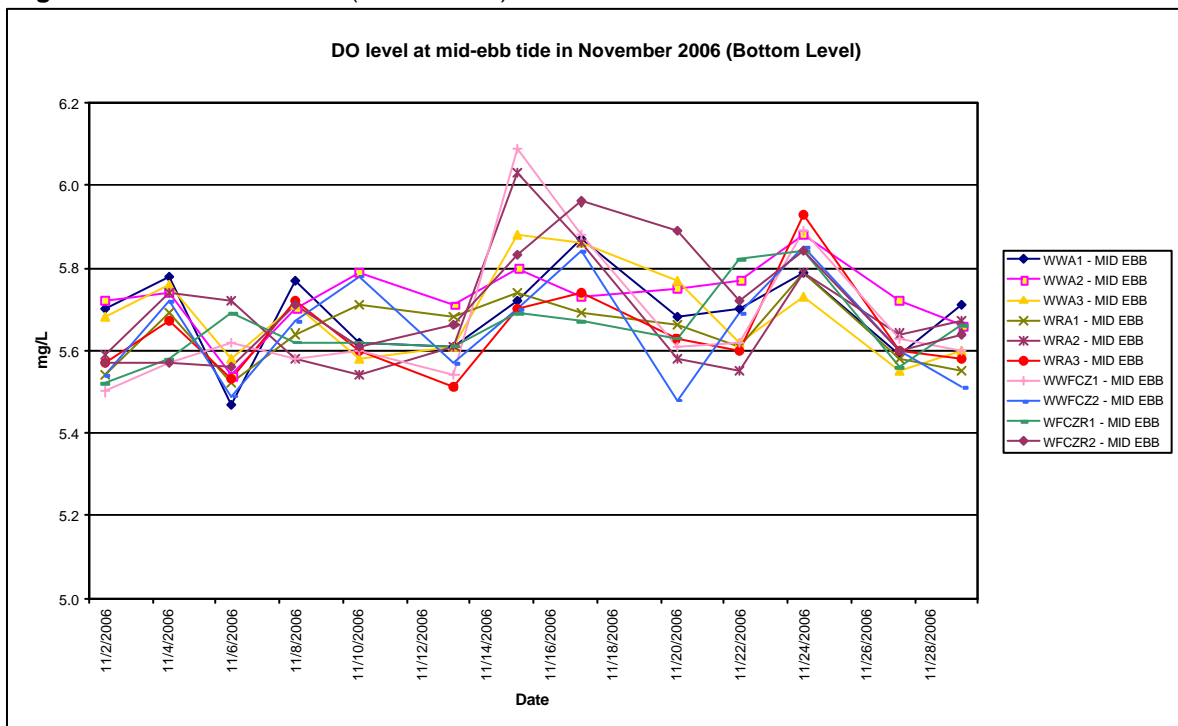


Figure 5-3: DO levels (surface and middle level) at mid-flood tide in November 2006

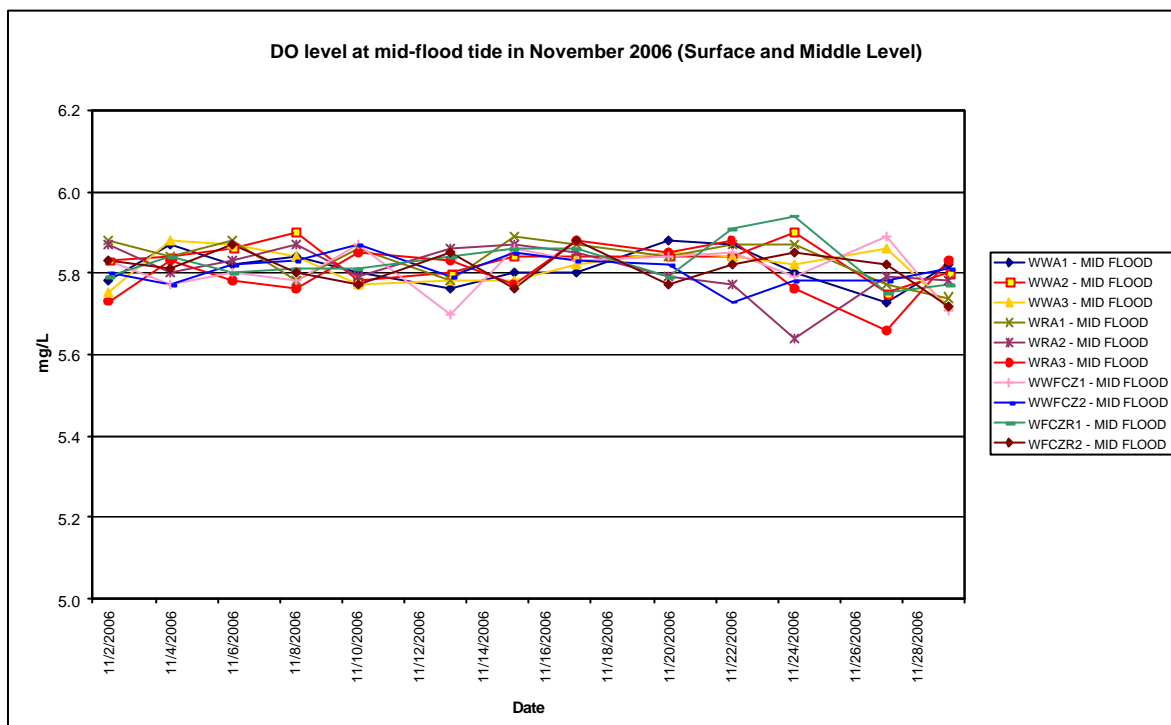


Figure 5-4: DO levels (bottom level) at mid-flood tide in November 2006

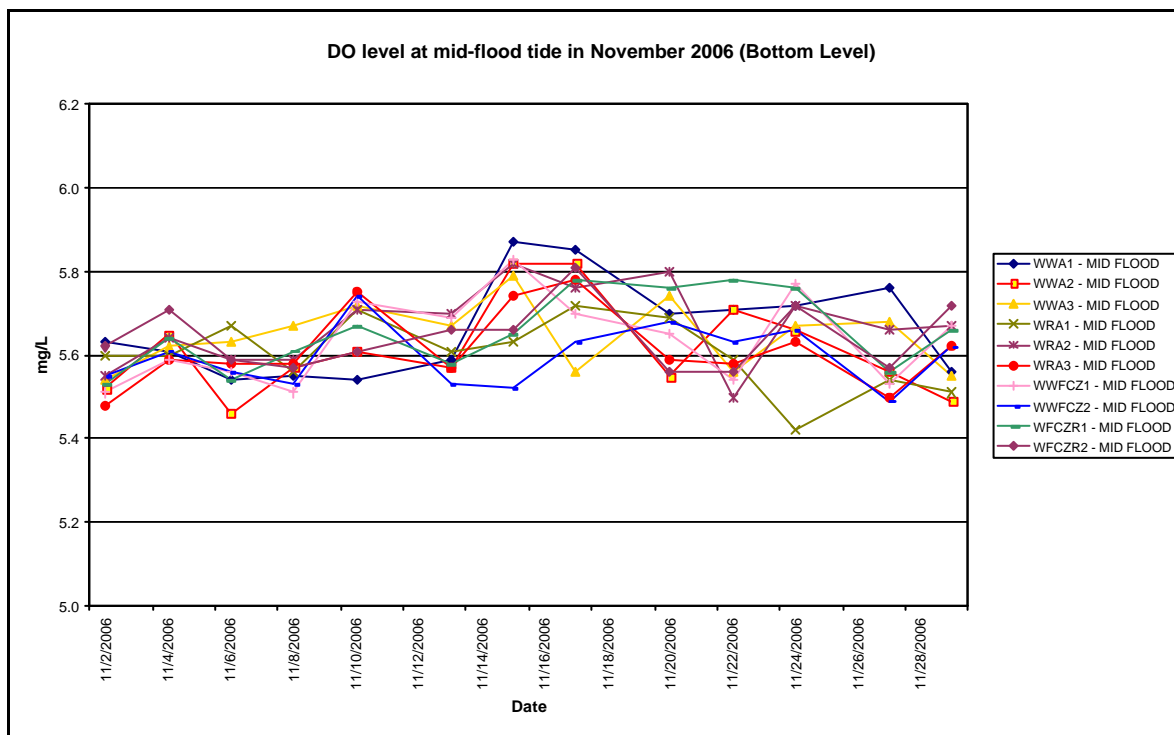


Figure 5-5: Turbidity levels at mid-ebb tide in November 2006

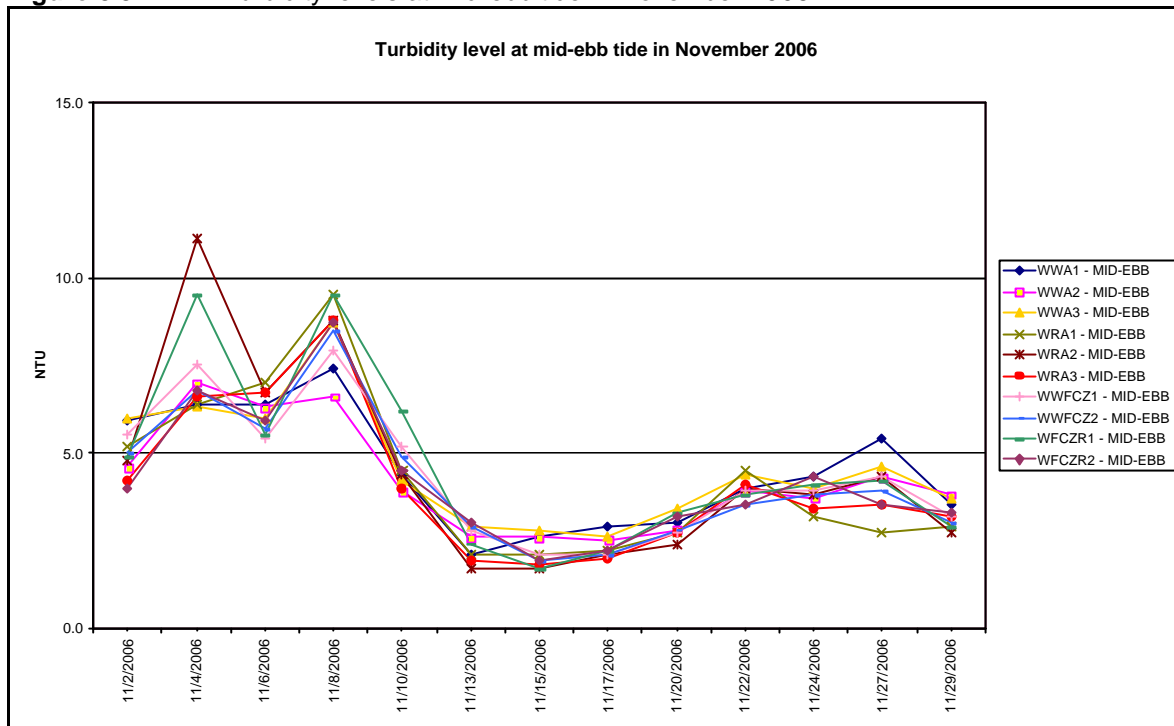


Figure 5-6: Turbidity levels at mid-flood tide in November 2006

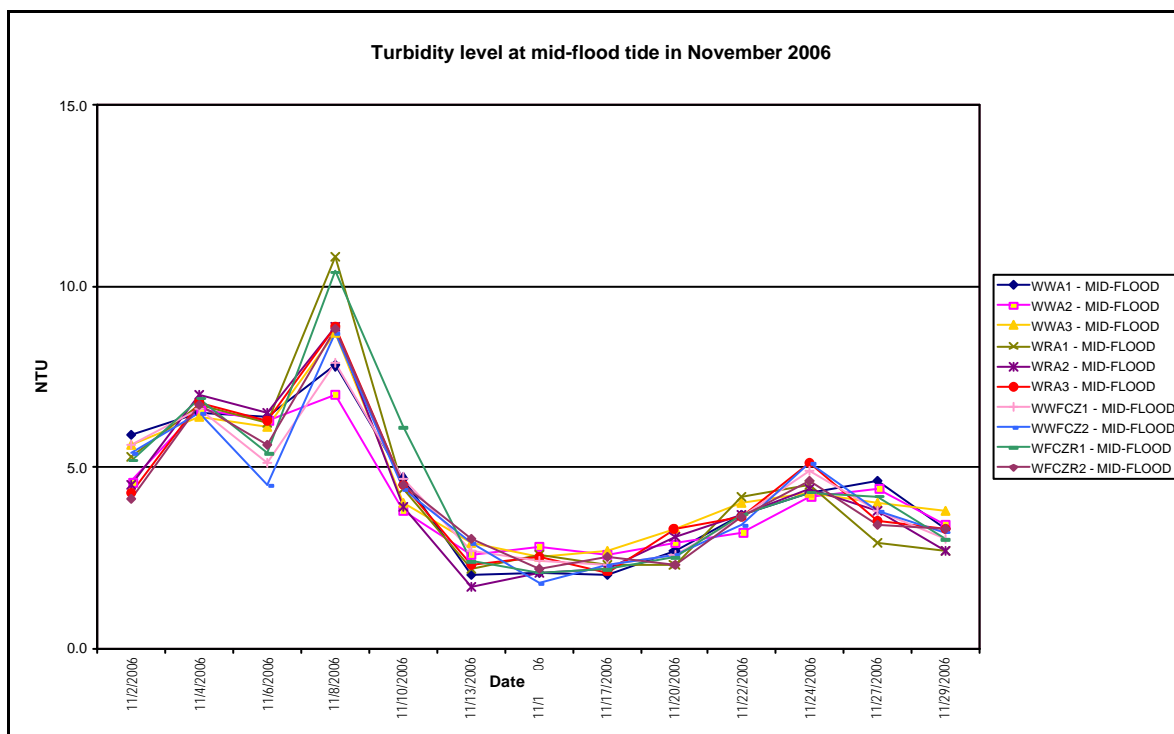


Figure 5-7: SS levels at mid-ebb tide in November 2006

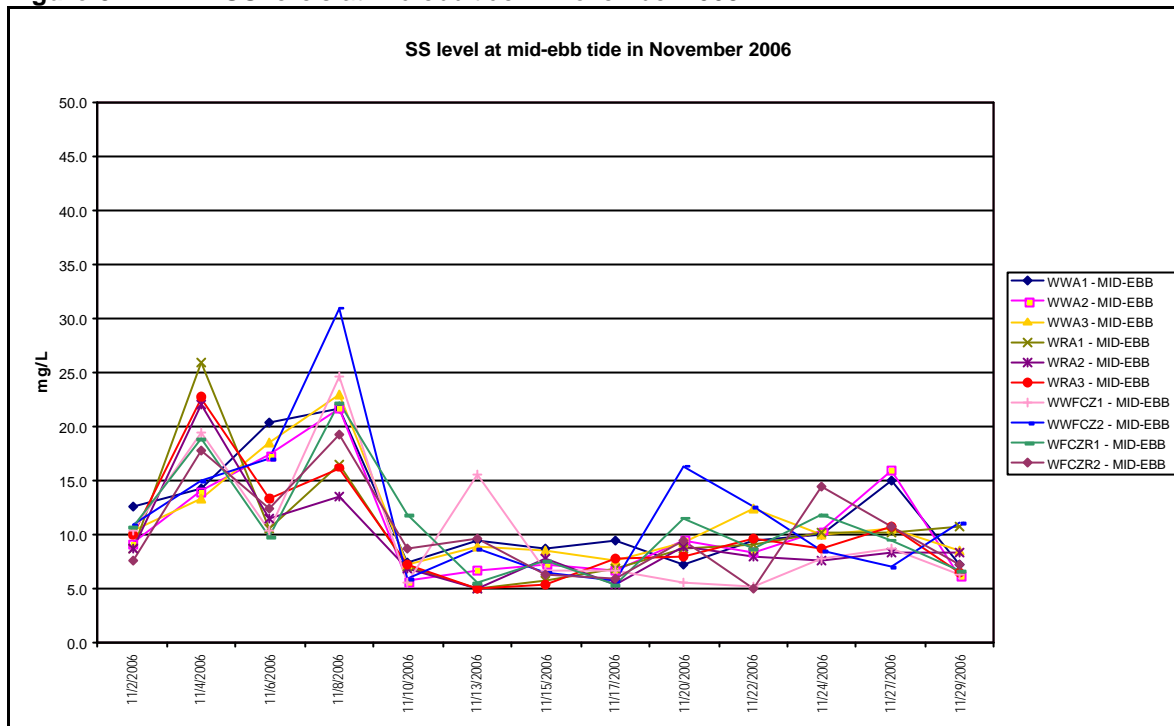
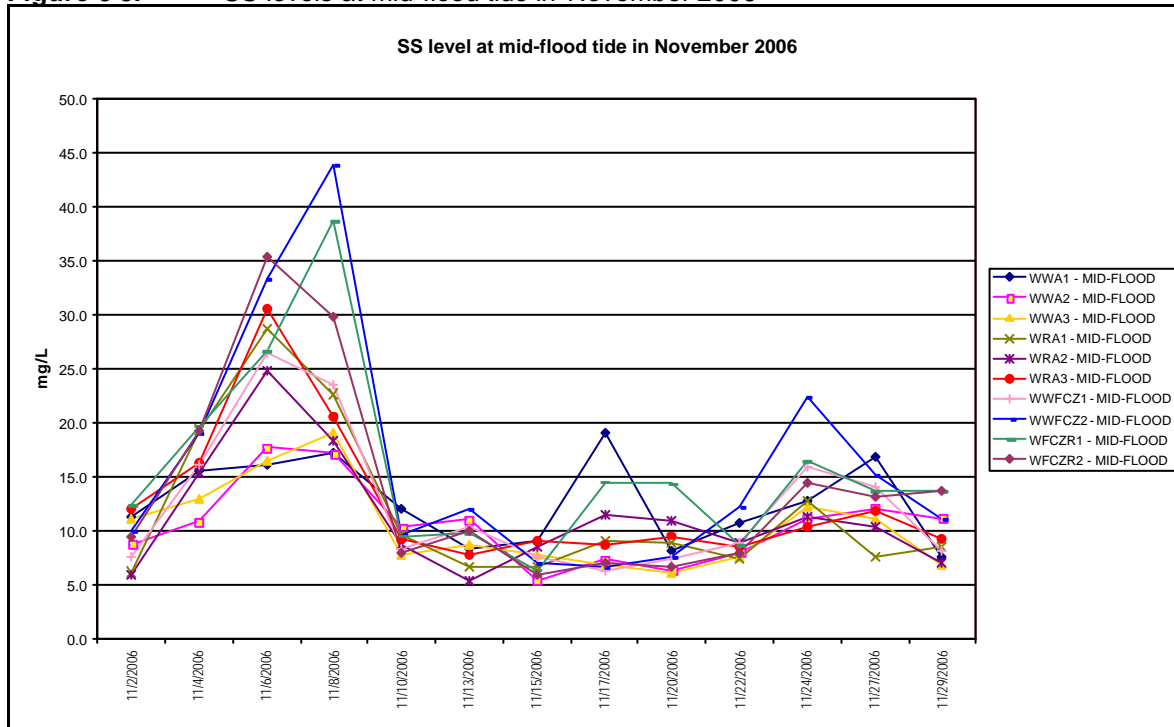


Figure 5-8: SS levels at mid-flood tide in November 2006



6 Site Inspection, Waste Disposal, environmental complaints, environmental licenses and non-compliance records

6.1 Site Audit Findings

Five weekly environmental site audits were carried out on 1, 9, 17, 23 and 30 November 2006. The findings of the site audits are summarised in **Table 6-1**.

Table 6-1: Findings of weekly environmental site audit in November 2006

Date of Issue Raised	Observation	Advice from EA	CT's Response / Environmental Outcomes	Closing Date
1 November 2006 (WTLT 041)	1. Chemical waste and chemical are stored in the same location.	CT was reminded to separate the chemical waste and chemical.	Agreed with the ET's advice.	9 November 2006
	2. Water spraying system was not functioned at Seawall A, Seawall B and bored piling site.	CT was reminded to repair the system.	Agreed with the ET's advice.	17 November 2006
	3. General refuse was observed at Seawall A, Seawall B and bored piling site.	CT was reminded to clear the waste and provide rubbish bins.	Agreed with the ET's advice.	9 November 2006
	4. Exposed slope was observed.	CT was reminded to cover the slope.	Agreed with the ET's advice.	9 November 2006
	5. C&D waste is observed at Seawall A.	CT was reminded to clear the waste.	Agreed with the ET's advice.	9 November 2006
	6. No wheel wash facility was provided at exit of Seawall A.	CT was reminded to provide wheel wash facility at the exit.	Agreed with the ET's advice.	9 November 2006
	7. Oil was observed in the driptray at the bore piling site.	CT was reminded to collect oil and store it in the chemical waste area.	Agreed with the ET's advice.	17 November 2006
	8. Oil drums were observed without driptrays at the bored piling site.	CT was reminded to provide driptrays to all oil drums.	Agreed with the ET's advice.	9 November 2006
	9. Accumulation of wasted cement bags was observed.	CT was reminded to remove the waste.	Agreed with the ET's advice.	9 November 2006
9 November 2006 (WTLT 042)	1. Water was observed accumulated in driptray at chemical storage area.	CT was reminded to remove the water.	Agreed with the ET's advice.	17 November 2006

Date of Issue Raised	Observation	Advice from EA	CT's Response / Environmental Outcomes	Closing Date
17 November 2006 (WTLT 043)	2. Refuse was observed near to site office and nearby slope.	CT was reminded to clear the waste.	Agreed with the ET's advice.	17 November 2006
	3. Stockpile was partially covered near to site office.	CT was reminded to cover the stockpile.	Agreed with the ET's advice.	23 November 2006
	4. Accumulation of silt was observed at bored piling site.	CT was reminded to clear it more frequently.	Agreed with the ET's advice.	17 November 2006
	5. General refuse was observed at slope P2.	CT was reminded to clear the waste.	Agreed with the ET's advice.	17 November 2006
	1. Mud trails were observed.	CT was reminded to clear the mud trails.	Agreed with the ET's advice.	23 November 2006
	2. Dust was generated from soil nail operation.	CT was reminded to provide mitigation measures, such as enclosure or water spraying frequently.	Agreed with the ET's advice.	23 November 2006
	3. Stockpile was not covered at Seawall B.	CT was reminded cover the stockpile.	Agreed with the ET's advice.	7 December 2006
	4. Silt curtain was not installed at Seawall B.	CT was reminded to install the silt curtain.	Agreed with the ET's advice.	7 December 2006
	5. Sedimentation tank for site runoff was observed full of silt and broken pipe was observed.	CT was reminded to clear the silt as far as possible and repair the broken pipe.	Agreed with the ET's advice.	23 November 2006
23 November 2006 (WTLT 044)	6. Concrete batching vehicles were observed on-site.	CT was reminded to provide wash-water containers to hold wastewater from the concrete batching vehicles.	Agreed with the ET's advice.	7 December 2006
	1. General refuse was observed near Seawall A.	CT was reminded to clear the waste.	Agreed with the ET's advice.	30 November 2006
30 November 2006 (WTLT 045)	2. Manual wheel washing without settling tank was observed at Seawall A.	CT was reminded to provide proper wheel washing facilities.	Agreed with the ET's advice.	30 November 2006
	1. An oil drum was observed without driptray at Seawall B.	CT was reminded to provide driptray to all oil drums.	Agreed with the ET's advice.	7 December 2006
	2. General refuse was observed at bored piling site.	CT was reminded to clear the refuse regularly.	Agreed with the ET's advice.	7 December 2006

Date of Issue Raised	Observation	Advice from EA	CT's Response / Environmental Outcomes	Closing Date
	3. Scrapped and rusty metal fence were observed.	CT was reminded to clear the waste regularly.	Agreed with the ET's advice.	7 December 2006
	4. Wheel washing facilities were not observed in some exits.	CT was reminded to provide wheel washing facilities at every exit.	Agreed with the ET's advice.	On-going

6.2 Waste Disposal

Disposal of waste material in the reporting period generally complied with the corresponding waste disposal requirements. The waste disposal quantity in the reporting period is summarised in **Table 6-2**.

Table 6-2: Waste disposal quantity in November 2006

Type of waste or material	Disposal at	No. of loads or quantities
C&D waste	SENT/WENT Landfill	61.8 tonnes
C&D material	By truck Public Filling Reception Facility in Tuen Mun Area 38	421.6 tonnes
Chemical waste	Collected by licensed collector	0

6.3 Complaint Record

There was no environmental complaint received in November 2006.

6.4 Exceedance

There were exceedances of Tby and SS levels for marine water quality in November 2006 when compared with A/L Levels and baseline check criteria. No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations by ET's field staff during marine water quality monitoring in November 2006. No marine works were being conducted on these days. In addition, high SS levels were recorded at control stations. After ET's investigation, all exceedances were unlikely due to the construction activities of the Project. These exceedances are summarised in **Table 6.3**. The details of the investigation was summarised in **Appendix E**.

Table 6-3: Summary of exceedances of marine water quality monitoring not related to construction works of the Project in November 2006

Date	Tide	Location	Exceedances of monitoring data					
			Tby (NTU)			SS (mg/L)		
			Control Station	Impact Station	Exceedance of	Control Station	Impact Station	Exceedance of
4-Nov	Mid-ebb	WWFCZ1	-	-	-	18.8	19.5	Baseline Check
6-Nov	Mid-ebb	WWA1	-	-	-	10.5	20.3	Baseline Check
6-Nov	Mid-ebb	WWA2	-	-	-	11.5	17.3	Baseline Check

Date	Tide	Location	Exceedances of monitoring data					
			Tby (NTU)			SS (mg/L)		
			Control Station	Impact Station	Exceedance of	Control Station	Impact Station	Exceedance of
6-Nov	Mid-ebb	WWA3	-	-	-	13.3	18.5	Baseline Check
6-Nov	Mid-ebb	WWFCZ2	-	-	-	12.3	17.0	Baseline Check
8-Nov	Mid-ebb	WWA1	-	-	-	16.5	21.7	Baseline Check
8-Nov	Mid-ebb	WWA2	-	-	-	13.5	21.7	Baseline Check
8-Nov	Mid-ebb	WWA3	-	-	-	16.2	23.0	Baseline Check
8-Nov	Mid-ebb	WWFCZ1	-	-	-	22.2	24.7	Baseline Check
8-Nov	Mid-ebb	WWFCZ2	-	-	-	19.2	31.0	Limit Level
8-Nov	Mid-flood	WWFCZ2	-	-	-	29.8	43.8	Limit Level
13-Nov	Mid-ebb	WWFCZ1	-	-	-	5.5	15.5	Baseline Check
17-Nov	Mid-flood	WWA1	-	-	-	9.0	19.0	Baseline Check
20-Nov	Mid-ebb	WWFCZ2	-	-	-	9.5	16.3	Baseline Check
24-Nov	Mid-ebb	WWFCZ1	-	-	-	14.3	22.3	Baseline Check
27-Nov	Mid-ebb	WWA1	-	-	-	10.2	15.0	Baseline Check
27-Nov	Mid-ebb	WWA2	-	-	-	8.3	16.0	Baseline Check

6.5 Notification of Summons and Successful Prosecution

No notification of summons and prosecution was received in November 2006.

6.6 Environmental Licenses

A summary of the valid environmental licences is given in **Table 6-4**. A new Construction Noise Permit (CNP) was granted during the reporting month. A copy of the CNP is attached in **Appendix F**.

Table 6-4: Summary of valid environmental licences in November 2006

Type of Licence	Reference No.	Valid from	Valid to
Environmental Permit	EP-219/2005	20 Jun 2005	Not applicable
Registration of Chemical Waste Producer	5111-336-C2869-49	16 Feb 2006	Not applicable
Water Discharge Licence	EP760/336/011348 I	31 Mar 2006	31 Mar 2011
Construction Noise Permit	GW-RW0326-06	9 Jun 2006	8 Dec 2006
Construction Noise Permit	GW-RW0349-06	23 Jun 2006	22 Dec 2006
Construction Noise Permit	GW-RW 0654-06	14 Nov 2006	15 Mar 2007

7 Conclusions

The construction phase of the Project was commenced on 28 February 2006. The EM&A programme has been implemented since then, including marine water quality monitoring and environmental site audits. Noise monitoring at Grand Bay Villa was temporarily suspended as these premises were vacant with no resident.

Exceedances of marine water quality were detected from the monitoring data. After ET's investigation, all exceedances were unlikely due to the construction activities of the Project.

No complaint, summons or prosecution related to environmental issues was received during the reporting month.

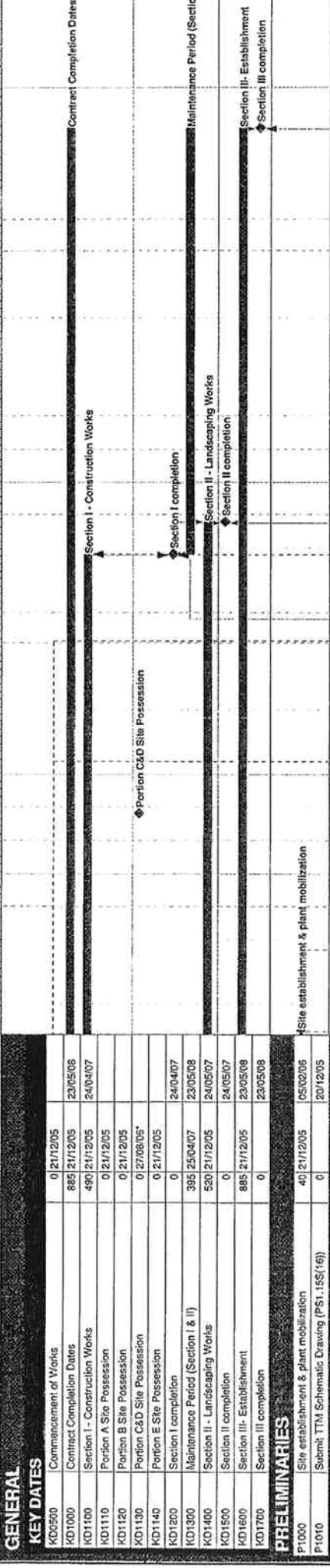
Weekly environmental site audit was carried out during the reporting month. The major environmental concerns were related to air quality, water quality, waste management and chemical waste handling.

All C&D materials were transported to PFRF at Tuen Mun Area 38 by trucks during the reporting period.

8 References

- [1] Mouchel Halcrow Joint Venture. January 2006. Supplementary Agreement No.1 – Remaining Project EM&A Manual for Construction of Reclamation West of Tsing Lung Tau.
- [2] Ove Arup & Partners Hong Kong Limited. April 2006. Contract No.HY2005/06 Castle Peak Road Improvement – West of Tsing Lung Tau. Environmental Baseline Monitoring Report for Reclamation Works (EP No. EP-219/2005) (Second Issue)

Appendix A
**Construction
programme**



PRELIMINARIES

Area 4 Construction (Ch2+030 to Ch2+150) Pre-Bored H-Pile Wall at Both Ends at GL

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
KD0500	Commencement of Works	0	21/12/05	
KD1000	Contract Completion Dates	885	21/12/05	23/05/06
KD1100	Section I - Construction Works	490	21/12/05	24/04/07
KD1110	Portion A Site Possession	0	21/12/05	
KD1120	Portion B Site Possession	0	21/12/05	
KD1130	Portion C&D Site Possession	0	27/08/05*	
KD1140	Portion E Site Possession	0	21/12/05	
KD1200	Section I completion	0		24/04/07
KD1300	Maintenance Period (Section I & II)	395	25/04/07	23/05/08
KD1400	Section II - Landscaping Works	520	21/12/05	24/05/07
KD1500	Section II completion	0		24/05/07
KD1600	Section III - Establishment	885	21/12/05	23/05/08
KD1700	Section III completion	0		23/05/08
PRELIMINARIES				
P1000	Site establishment & plant mobilization	40	21/12/05	05/02/06
P1010	Submit TTM Schematic Drawing (PS1, IS1 (16))	0		20/12/05
Area 4 Construction (Ch2+030 to Ch2+150) Pre-Bored H-Pile Wall at Both Ends at GL				
Pre-Construction				
4FP0100	Detailed Design of Perm and Temp CSD Works	72	02/05/06*	27/07/06
4FP0110	Formal Submission of CSD Proposal	1	28/07/06	28/07/06
4FP0120	Checking by Engineer	23	29/07/06	24/08/06
4FP0130	Approval of CSD Proposal by Engineer	1	23/08/06	25/08/06
4FP0135	Consent to Temp Work by Engineer	1	21/08/06	21/08/06
4FP0150	Circulate Detailed Design to Rel. Parties by ENG	31	26/08/06	30/09/06
4FP0155	Consent to Perm Works by Engineer	1	03/10/06	03/10/06
4FP0160	Construction Drawings	7	03/10/06	11/10/06
Construction - West Side				
A04PP1022	Temp Cut / Slope Stabilisation (Ch 2030-2100)	55	21/08/06	25/10/06
A04PP1028	Rock Cutting to Road Formation	22	26/10/06	17/11/06
4FP1030	Drilling Pre-bored H-Pile (34nos)	68	22/11/06	13/02/07
4FP1040	Bot Capping Beam & RC Wall Construction	30	31/01/07	12/03/07
4FP1050	Mass Concrete Wall Construct	30	31/01/07	12/03/07
4FP1060	Slope Re-instatement Works	22	13/03/07	07/04/07
4FP1070	Wall Facing Panel Installation	40	03/03/07	23/04/07
Construction - East Side				
4FP2000	Temp Cut / Slope Stabilisation (Ch 2130-2200)	53	28/08/06	31/10/06
4FP2020	Excavation to Road Formation	26	13/10/06	15/11/06
4FP2030	Drilling Pre-Bored H-Pile (30 nos)	60	27/10/06	10/01/07
4FP2040	Bot Capping Beam & RC Wall Construction	30	11/01/07	14/02/07
4FP2100	Mass Concrete Wall Construct	24	11/01/07	07/02/07
4FP2110	Slope Re-instatement Works	22	15/02/07	17/03/07
4FP2120	Wall Facing Panel Installation	40	15/02/07	09/04/07
Bored Pile Retaining Wall Construction				
Bored Pile Construction - B01.23 - B01.33				
4BP3000	Plant Mobilization & Testing	2	20/03/06*	21/03/06
4BP3010	Formation of Temporary Working Platform	3	22/03/06	24/03/06
4BP3020	Initial Setting up for Bored Pile Construction	5	24/03/06	29/03/06
4BP3030	2.5 Dia Bored Pile Construction (B01.25)	41	30/03/06	23/05/06
4BP3040	2.5 Dia Bored Pile Construction (B01.23)	43	02/05/06	20/06/06
4BP3050	2.5 Dia Bored Pile Construction (B01.27)	31	30/05/06	06/07/06
4BP3060	2.5 Dia Bored Pile Construction (B01.26)	15	08/07/06	25/07/06
4BP3070	2.5 Dia Bored Pile Construction (B01.24)	28	18/07/06	18/08/06

Sheet 1 of 5

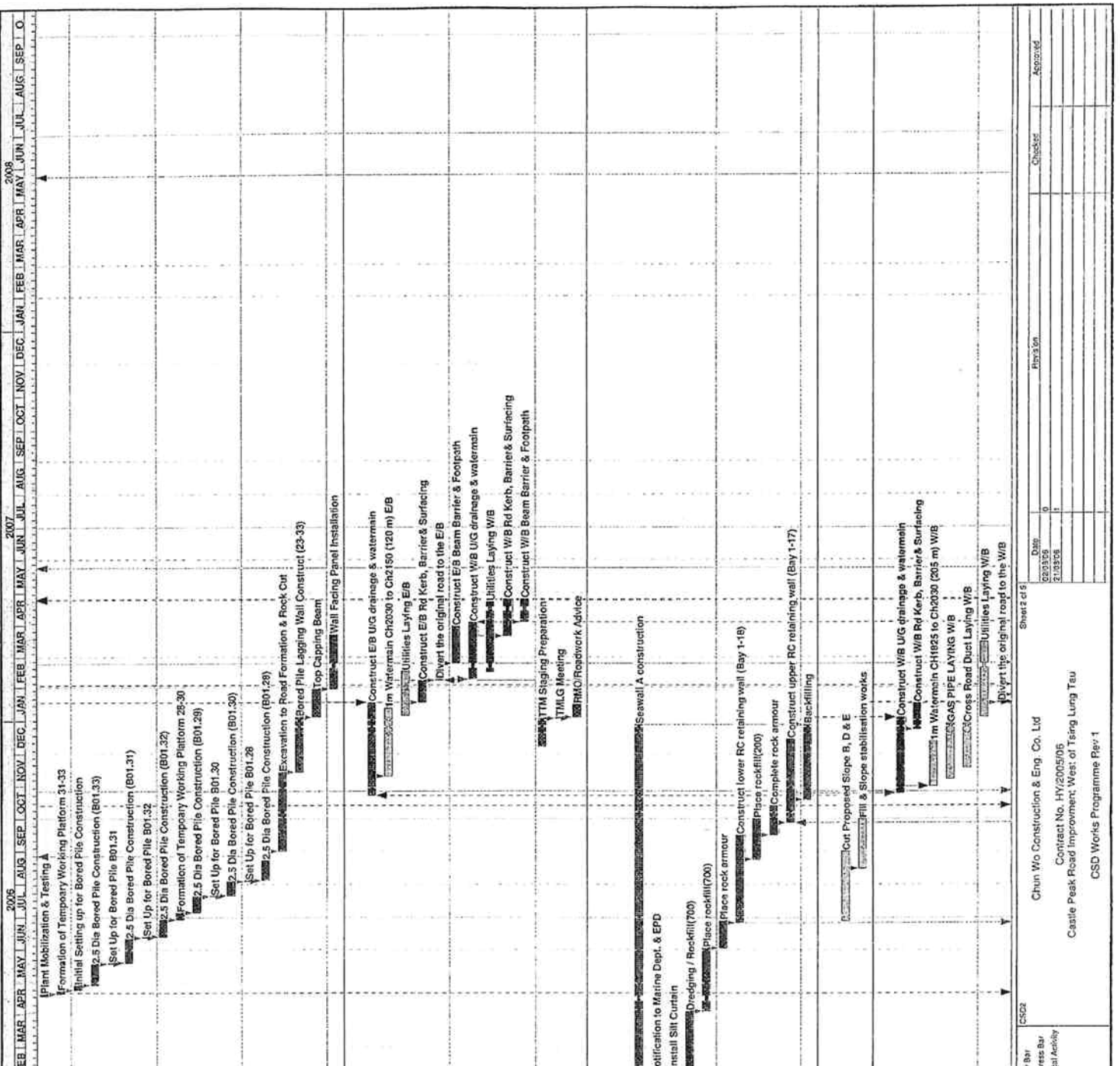
Chun Wo Construction & Eng. Co. Ltd
Contract No. HY2005/06
Castle Peak Road Improvement West of Tsing Lung Tau
CSD Works Programme Rev 1

CSD2

Start Date: 21/12/05
Finish Date: 23/05/06
Issue Date: 21/12/05
Rev Date: 20/06/15/06

Activity Bar: Early Bar, Progress Bar, Critical Activity

Checklist: Date, Revision, Checked, Amount



Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Early Finish
4BP3080	Plant Mobilization & Testing	2	18/04/06	19/04/06	19/04/06
4BP3090	Formation of Temporary Working Platform 31-33	3	20/04/06	22/04/06	22/04/06
4BP3100	Initial Setting up for Bored Pile Construction	5	24/04/06	29/04/06	29/04/06
4BP3110	2.5 Dia Bored Pile Construction (B01.33)	15	29/04/06	19/05/06	19/05/06
4BP3115	Set Up for Bored Pile B01.31	1	19/05/06	19/05/06	19/05/06
4BP3120	2.5 Dia Bored Pile Construction (B01.31)	18	20/05/06	10/06/06	10/06/06
4BP3125	Set Up for Bored Pile B01.32	1	12/06/06	12/06/06	12/06/06
4BP3130	2.5 Dia Bored Pile Construction (B01.32)	14	13/06/06	28/06/06	28/06/06
4BP3131	Formation of Temporary Working Platform 28-30	5	28/06/06	03/07/06	03/07/06
4BP3132	2.5 Dia Bored Pile Construction (B01.29)	13	06/07/06	20/07/06	20/07/06
4BP3133	Set Up for Bored Pile B01.30	1	21/07/06	21/07/06	21/07/06
4BP3134	2.5 Dia Bored Pile Construction (B01.30)	11	22/07/06	03/08/06	03/08/06
4BP3135	Set Up for Bored Pile B01.28	1	04/08/06	04/08/06	04/08/06
4BP3136	2.5 Dia Bored Pile Construction (B01.28)	16	05/08/06	23/08/06	23/08/06
4BP3150	Excavation to Road Formation & Rock Cut	60	01/09/06	13/11/06	13/11/06
4BP3150	Bored Pile Lagging Wall Construct (23-33)	40	14/11/06	03/01/07	03/01/07
4BP3170	Top Capping Beam	22	04/01/07	26/01/07	26/01/07
4BP3180	Wall Facing Panel Installation	40	20/01/07	22/03/07	22/03/07
Roadworks Construction					
4RW4100	Construct E/B U/G drainage & watermain	70	23/10/06	17/01/07	17/01/07
AULU23500	1m Watermain Ch2030 to Ch2150 (120 m) E/B	50	10/11/06	11/01/07	11/01/07
A0FRW4200	Utilities Laying E/B	35	06/01/07	15/02/07	15/02/07
4RW4110	Construct E/B Rd Kerb, Barrier & Surfacing	18	18/01/07	07/02/07	07/02/07
4RW4500	Divert the original road to the E/B	1	08/02/07	08/02/07	08/02/07
4RW4600	Construct W/B U/G drainage & watermain	30	24/02/07	30/03/07	30/03/07
A0FRW4160	Utilities Laying W/B	48	15/02/07	21/04/07	21/04/07
4RW4610	Construct W/B Rd Kerb, Barrier & Surfacing	26	21/03/07	24/04/07	24/04/07
4RW4815	Construct W/B Beam Barrier & Footpath	15	03/04/07	24/04/07	24/04/07
4RW4830	TTM Staging Preparation	19	07/12/06	02/01/07	02/01/07
4RW4830	TMLG Meeting	1	03/01/07	03/01/07	03/01/07
4RW4840	RMC2/Roadwork Advice	10	04/01/07	15/01/07	15/01/07
Area 3 Construction (Ch1+B25 to Ch2+0+0)					
Seawall A Construction					
3SWA0500	Seawall A construction	266*	04/02/06	27/12/06	27/12/06
3SWA0500	Notification to Marine Dept. & EPD	26	07/01/06	03/02/06	03/02/06
3SWA1000	Install Silt Curtain	4	04/02/06	08/02/06	08/02/06
3SWA1100	Dredging / Rockfill(700)	50	04/02/06	03/04/06	03/04/06
3SWA1200	Place rockfill(700)	45	04/04/06	02/06/06	02/06/06
3SWA1300	Construct lower RC retaining wall (Bay 1-18)	21	03/05/06	27/05/06	27/05/06
3SWA1400	Place rockfill(200)	70	26/05/06	15/09/06	15/09/06
3SWA1500	Complete rock armour	32	25/09/06	30/09/06	30/09/06
3SWA1600	Construct upper RC retaining wall (Bay 1-17)	22	16/09/06	13/10/06	13/10/06
3SWA1700	Backfilling	64	28/09/06	14/12/06	14/12/06
3SWA2000	Fill & Slope stabilisation works	40	16/09/06	30/09/06	30/09/06
Roadworks Construction					
3RW2100	Construct W/B U/G drainage & watermain	56	25/10/06	03/01/07	03/01/07
3RW2110	Construct W/B Rd Kerb, Barrier & Surfacing	18	23/12/06	16/01/07	16/01/07
AULU22600	1m Watermain CH1825 to CH2030 (205 m) W/B	35	01/11/06	11/12/06	11/12/06
A03RW4200	GAS PIPE LAYING W/B	42	07/11/06	28/12/06	28/12/06
A03RW4100	Cross Road Duct Laying W/B	32*	18/11/06	28/12/06	28/12/06
A03RW4000	Utilities Laying W/B	66*	04/01/07	15/03/07	15/03/07
3RW2500	Divert the original road to the W/B	1	17/01/07	17/01/07	17/01/07

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
3RW2505	Construct WB Beam Barrier & Footpath	35	18/01/07	05/03/07
3RW2600	Construct EB U/G drainage & watermain	56	18/01/07	29/03/07
A02RW4500	Utilities Laying E/B	36*	05/03/07	20/04/07
3RW2605	Construct EB Rd Kerb, Barriers & Surfacing	18	30/03/07	24/04/07
3RW2608	Construct E/B Beam Barrier & Footpath	14	04/04/07	24/04/07
3RW2610	T/M Staging Preparation	19	21/11/06	12/12/06
3RW2620	T/MLG Meeting	1	13/12/06	13/12/06
3RW2630	R/M/Roadwork Advice	10	14/12/06	28/12/06

Area 5 Construction (Ch2+150 to Ch2+300)

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
2SVB0500	Seawall B construction	204*	04/02/06	11/10/06
A02SVB100	Install Silt Curtain	3	04/02/06	07/02/06
2SVB1000	Dredging / Rockfill (700)	50	04/02/06	03/04/06
2SVB1100	Place rockfill	28	04/04/06	12/05/06
2SVB1200	Place rock armour	14	13/05/06	29/05/06
2SVB1300	Construct RC retaining wall (Bay 6-12)	80	30/05/06	01/09/06
2SVB1400	Backfilling	28	29/08/06	22/09/06
2SVB1500	Complete rock armour	14	23/09/06	11/10/06
A02SVB0500	Construct RC Retaining Wall (Bay 1-5)	35	26/01/07	13/03/07
A02SVB1000	Backfilling	10	09/03/07	20/03/07
A02SVB1100	Complete Rock Armour	5	21/03/07	26/03/07

Roadworks Construction

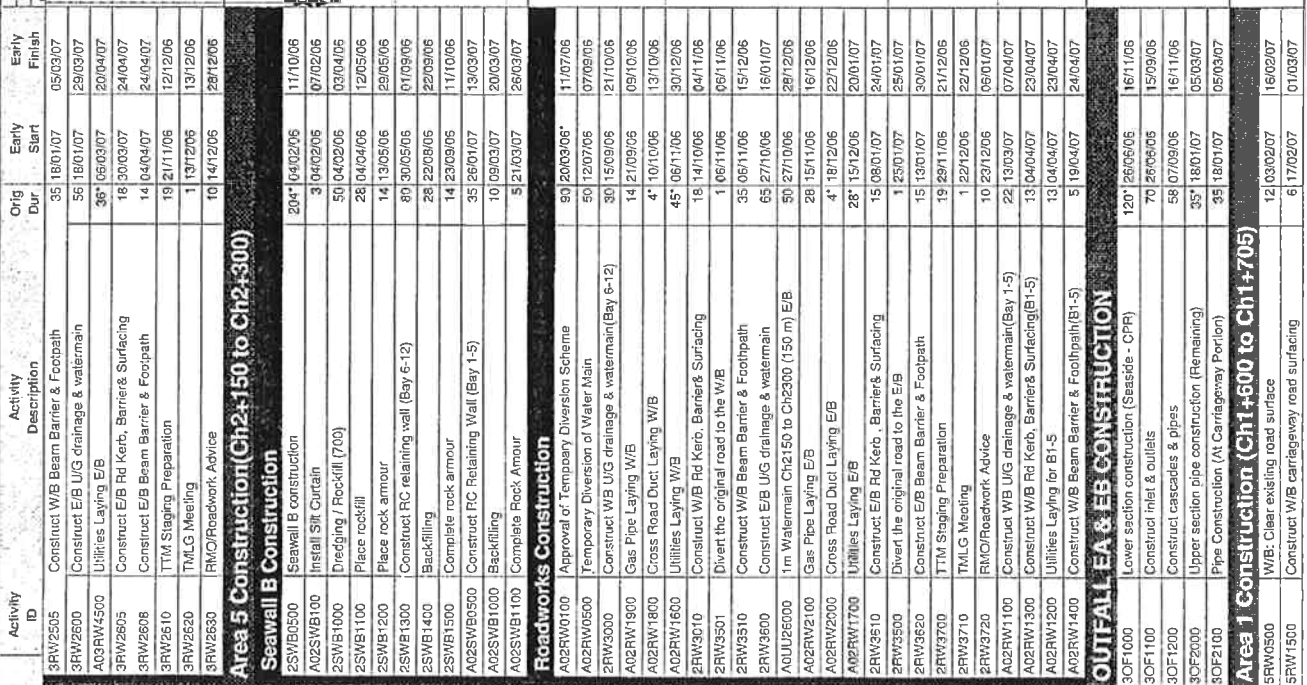
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
A02RW0100	Approval of Temporary Diversion Scheme	80	20/03/06*	11/07/06
A02RW0500	Temporary Diversion of Water Main	50	15/07/06	07/09/06
2RW3000	Construct WB U/G drainage & watermain (Bay 6-12)	30	15/09/06	21/10/06
A02RW1800	Gas Pipe Laying W/B	14	21/09/06	09/10/06
A02RW1800	Cross Road Duct Laying W/B	4*	10/10/06	13/10/06
A02RW1600	Utilities Laying W/B	45*	06/11/06	30/12/06
2RW3010	Construct WB Rd Kerb, Barriers & Surfacing	18	14/10/06	04/11/06
2RW3301	Divert the original road to the WB	1	06/11/06	06/11/06
2RW3510	Construct WB Beam Barrier & Footpath	35	05/11/06	15/12/06
2RW3600	Construct EB U/G drainage & watermain	65	27/10/06	16/01/07
A01J26000	1m Watermain Ch2150 to Ch2300 (150 m) E/B	50	27/10/06	28/12/06
A02RW2100	Gas Pipe Laying E/B	28	15/11/06	16/12/06
A02RW2200	Cross Road Duct Laying E/B	4*	18/12/06	22/12/06
A02RW1700	Utilities Laying E/B	28*	15/12/06	20/01/07
2RW3510	Construct EB Rd Kerb, Barriers & Surfacing	15	09/01/07	24/01/07
2RW3620	Construct EB Beam Barrier & Footpath	15	13/01/07	30/01/07
2RW3700	T/M Staging Preparation	19	29/11/06	21/12/06
2RW3710	T/MLG Meeting	1	22/12/06	22/12/06
2RW3720	R/M/Roadwork Advice	10	23/12/06	05/01/07
A02RW1100	Construct WB U/G drainage & watermain (Bay 1-5)	22	13/03/07	07/04/07
A02RW1300	Construct WB Rd Kerb, Barriers & Surfacing (B1-5)	13	04/04/07	23/04/07
A02RW1200	Utilities Laying for B1-5	13	04/04/07	23/04/07
A02RW1400	Construct WB Beam Barrier & Footpath (B1-5)	5	19/04/07	24/04/07

OUTFALL EA & EB CONSTRUCTION

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
3OF1000	Lower section construction (Seaside - CPR)	120	26/05/06	16/11/06
3OF1100	Construct inlet & outlets	70	26/05/06	15/09/06
3OF1200	Construct cascades & pipes	58	07/09/06	16/11/06
3OF2000	Upper section pipe construction (Remaining)	35*	18/01/07	05/03/07
3OF2100	Pipe Construction (At Carriageway Portion)	35	18/01/07	05/03/07

Area 1 Construction (Ch1+600 to Ch1+705)

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
3RW0500	WB: Clear existing road surface	12	03/02/07	16/02/07
3RW1500	Construct WB carriageway road surfacing	6	17/02/07	01/03/07



Start Date: 21/02/06
 Date: 21/03/07
 C/S Date: 21/03/07
 For Date: 22/02/06 15:00

CS52

Early Bar
 Progress Bar
 Critical Activity

Chun Wo Construction & Eng. Co. Ltd
 Contract No. HY2005/06
 Castle Peak Road Improvement, West of T'ing Lung Tau
 CSD Works Programme Rev 1

Sheet 3 of 5

Date	Revised	Checked	Approved
2006/06/06			
2006/06/11			

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
5RW2000	Divert the original road to the new road (W/B)	1	02/03/07	02/03/07
5RW2500	E/B: clear existing road surface	12	03/03/07	16/03/07
5RW3500	Construct E/B carriageway road surfacing	6	17/03/07	23/03/07
5RW3510	TTM Staging Preparation	19	03/01/07	24/01/07
5RW3520	TM/LG Meeting	1	25/01/07	25/01/07
5RW3530	RMO/Roadwork Advice	10	26/01/07	06/02/07
Area 6 Construction (Ch2-300 to Ch2-400)				
6RW0500	W/B: clear existing road surface, 1 lane	12	14/10/06	27/10/06
6RW1500	Construct W/B carriageway road surfacing, 1 lane	6	28/10/06	04/11/06
6RW2000	Divert the original road to the new lane	1	08/11/06	08/11/06
6RW2100	W/B: clear existing road surface, 1 lane	12	07/11/06	20/11/06
6RW2200	Construct W/B carriageway road surfacing, 1 lane	6	21/11/06	27/11/06
6RW2500	E/B: Clear existing road surface, 1 lane	12	28/11/06	11/12/06
6RW3500	Construct E/B carriageway road surfacing, 1 lane	6	12/12/06	18/12/06
6RW3501	E/B: clear existing road surface, 1 lane	12	21/12/06	06/01/07
6RW3502	Construct E/B carriageway road surfacing, 1 lane	6	08/01/07	13/01/07
6RW3510	TTM Staging Preparation	19	11/09/06	03/10/06
6RW3511	Divert the original road to the new lane	1	19/12/06	19/12/06
6RW3520	TM/LG Meeting	1	04/10/06	04/10/06
6RW3530	RMO/Roadwork Advice	10	05/10/06	17/10/06
Area 2 Construction (Ch1-705 to Ch1-825)				
1RW0500	W/B: Excavation & demolish existing road surface	12	21/04/05	06/05/05
A01RW0500	1m Watermain Connection to Ch1825 (25 m) E/B	80	25/05/05	26/08/05
A01RW0600	Cross Road Duct Laying E,W/B	8	23/09/06	02/10/06
A01RW0700	Utilities Laying E/B	42	17/02/07	13/04/07
A01RW0800	1m Watermain Connection to Ch1825 (25 m) W/B	80	25/08/05	26/09/05
1RW1000	Utilities Laying W/B	14	06/02/07	27/02/07
1RW1500	Construct W/B, E/B: U/G drain, watermain, etc	115	08/05/06	20/09/06
1RW2000	Construct W/B, E/B Kerb Barrier & road surfacing	19	21/09/05	14/10/06
1RW2010	Divert the original road to the new road (E,W/B)	1	16/10/05	16/10/05
1RW2500	Construct W/B, E/B Beam Barrier & Footpath	24	17/10/06	14/11/06
1RW3500	Slip Rd: Excav & demolish exist road surface	12	17/10/06	31/10/06
1RW3501	Slip Rd: U/G drainage & utilities	82	01/11/05	08/02/07
1RW3502	Construct Slip Rd surfacing work	18	09/02/07	07/03/07
A01RW0500	Construction of Car Park	50	21/03/05	21/11/05
1RW3510	TTM Staging Preparation	15	26/05/05	12/09/05
1RW3520	TM/LG Meeting	1	13/09/05	13/09/05
1RW3530	RMO/Roadwork Advice	10	14/09/05	25/09/05
Slopes Remedial Works				
6SW3500	Remedial works to Slope No. 6SW-D/C170	57	30/01/07	12/04/07
6SW3501	Remedial works to Slope No. 6SW-D/FR286	167	08/04/06	31/10/06
6SW4000	Remedial works to Slope No. 6SW-D/FR59	100	13/05/06	10/10/06
6SW5000	Remedial works to Slope No. 6SW-D/FR83	80	16/10/06	26/01/07
6SW5500	Remedial works to Slope No. 6SW-D/FR2	120	15/06/05	06/11/05
6SW6000	Remedial works to Slope No. 6SW-D/FR1	87	12/12/05	02/04/07
Section 11 Landscaping Works				
A01W1000	Tree Transplant	200	05/02/06	08/10/06
LW1000	Landscaping Work	90	24/02/07	24/05/07

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	2008															
					FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
EP1000	Section III - Establishment Period Establishment works	365	23/05/07	23/05/08	Establishment works															

Scan Date	21/10/05	Early Bar	23/05/08	23/05/08	22/08/05 13:00	21/10/05	23/05/08	23/05/08	22/08/05 13:00	21/10/05	23/05/08	23/05/08	22/08/05 13:00	21/10/05	23/05/08	23/05/08	22/08/05 13:00
Print Date		Progress Bar															
Run Date		Global Activity															
Chun Wo Construction & Eng. Co. Ltd Contract No. HY2005/06 Castle Peak Road Improvement West of Tsing Lung Tau CSD Works Programme Rev 1																	
Siew's et al 03/08/06 03/08/06																	
Checked Approved																	

Appendix B

**Monitoring schedule for
November and
December 2006**

Environmental Monitoring and Audit Schedule - November 2006

- Note 1: L30 denotes $L_{eq(30 \text{ min})}$ monitoring
- Note 2: TSP denotes Total Suspended Particulate monitoring
- Note 3: MW denotes marine water monitoring
- Note 4: L&V denotes Landscape and Visual audit and monitoring

Nov-2006						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
5	6	7	8	9	10	11
	MW		MW	MW	MW	MW
12	13	14	15	16	17	18
	MW		MW		Site Inspection	
19	20	21	22	23	24	25
	MW		MW	Site Inspection	MW	
26	27	28	29	30		
	MW		MW	Site Inspection	MW	

Tentative Environmental Monitoring and Audit Schedule - December 2006

- Note 1: L30 denotes $L_{eq(30 \text{ min})}$ monitoring
- Note 2: TSP denotes Total Suspended Particulate monitoring
- Note 3: MW denotes marine water monitoring
- Note 4: L&V denotes Landscape and Visual audit and monitoring

Dec-2006						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
3	4 MW	5	6 MW	7 Site Inspection	8 MW	9
10	11 MW	12	13 MW	14 Site Inspection	15 MW	16
17	18 MW	19	20 MW	21 Site Inspection	22 MW	23
24	25	26	27 MW	28 Site Inspection	29 MW	30
31						

Appendix C

**Calibration certificates
of marine water
monitoring equipment**



CALIBRATION REPORT

Client : OVE ARUP & PARTNERS H.K. LTD.
Address : Level 5 Festival Walk,
80 Tat Chee Avenue,
Kowloon Tong,
Kowloon.

Report No. : CR 000076
Page No. : 1 of 5
Issue Date : 02/11/2006

Received Date : 24/10/2006
Approved Signatory : Grace Ting
Remarks :

Completion Date : 02/11/2006

Calibration Results:

Item : YSI Model 85-10 FT Handheld Salinity, Conductivity & Temperature Instrument
Serial No. : 02D1076 AB
Calibration Method : APHA 18e 2520 A & B
Date of Calibration : 02/11/2006
Results: :

Salinity

Expected Reading (ppt)	Recorded Reading (ppt)
0	0
7.4	7.5
15	14.9
35	33.9
39.3	38.0

Approval Signatory:



CALIBRATION REPORT

Client : OVE ARUP & PARTNERS H.K. LTD.
Address : Level 5 Festival Walk,
80 Tat Chee Avenue,
Kowloon Tong,
Kowloon.

Report No. : CR 000076
Page No. : 2 of 5
Issue Date : 02/11/2006

Received Date : 24/10/2006
Approved Signatory : Grace Ting
Remarks :

Completion Date : 02/11/2006

Calibration Results:

Item : YSI Model 85-10 FT Handheld Salinity, Conductivity & Temperature Instrument
Serial No. : 02D1076 AB
Calibration Method : In house method
Date of Calibration : 02/11/2006
Results: :

Temperature

Expected Reading (°C)	Recorded Reading (°C)
10.0	10.1
20.0	20.1
30.0	30.2
40.0	40.2

Approval Signatory:



CALIBRATION REPORT

Client : OVE ARUP & PARTNERS H.K. LTD.
Address : Level 5 Festival Walk,
80 Tat Chee Avenue,
Kowloon Tong,
Kowloon.

Report No. : CR 000076
Page No. : 3 of 5
Issue Date : 02/11/2006

Received Date : 24/10/2006
Approved Signatory : Grace Ting
Remarks :

Completion Date : 02/11/2006

Calibration Results:

Item : YSI Model 85-10 FT Handheld Salinity, Conductivity & Temperature Instrument
Serial No. : 02D1076 AB
Calibration Method : APHA 18e 4500-O A, B, C & D
Date of Calibration : 24/10/2006
Results: :

Dissolved Oxygen

Expected Reading (mg/L)	Recorded Reading (mg/L)
2.50	2.45
3.55	3.77
5.35	5.21
6.50	7.10
7.60	8.12
8.60	8.60

Approval Signatory:



CALIBRATION REPORT

Client : OVE ARUP & PARTNERS H.K. LTD.
Address : Level 5 Festival Walk,
80 Tat Chee Avenue,
Kowloon Tong,
Kowloon.

Report No. : CR 000076
Page No. : 4 of 5
Issue Date : 02/11/2006

Received Date : 24/10/2006
Approved Signatory : Grace Ting
Remarks :

Completion Date : 02/11/2006

Calibration Results:

Item : HACH 2100P Turbidimeter
Serial No. : 011100024354
Calibration Method : APHA 18e 2130 B
Date of Calibration : 02/11/2006
Results: :

Turbidity

Expected Reading (NTU)	Recorded Reading (NTU)
0	0.16
2	2.19
4	4.11
16	15.5
40	38.8
80	78.5

Approval Signatory:



CALIBRATION REPORT

Client : OVE ARUP & PARTNERS H.K. LTD.
Address : Level 5 Festival Walk,
80 Tat Chee Avenue,
Kowloon Tong,
Kowloon.

Report No. : CR 000076
Page No. : 5 of 5
Issue Date : 02/11/2006

Received Date : 24/10/2006
Approved Signatory : Grace Ting
Remarks :

Completion Date : 02/11/2006

Calibration Results:

Item : HANNA instrument HI 98128 membrane pH meter
Serial No. : 1377140
Calibration Method : In house method
Date of Calibration : 24/10/2006
Results: :

pH

Expected Reading (pH unit)	Recorded Reading (pH unit)
4.00	4.30
7.00	7.31
10.0	10.05

Approval Signatory:

Appendix D

**Marine water quality
monitoring results**

HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau – Environmental Monitoring & Audit Service
Marine Water Quality Impact Monitoring - November 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
1	WWA1	S	MID-EBB	2-Nov-06	12:15	7.20	25.5	5.84	5.80	5.74	90.9	89.9	8.5	33.2	6.2	6.2	5.9	10.5	12.5
2	WWA1	M	MID-EBB	2-Nov-06			25.3	5.73	5.60		87.6	86.1	8.5	33.5	5.8	5.6		14.0	
3	WWA1	B	MID-EBB	2-Nov-06			25.8	5.78	5.63		84.6	84.2	8.5	33.3	5.8	5.6		13.0	
4	WWA2	S	MID-EBB	2-Nov-06	12:28	8.10	26.2	5.89	5.79	5.77	91.6	88.3	8.5	33.1	4.1	4.2	4.6	5.0	9.2
5	WWA2	M	MID-EBB	2-Nov-06			26.3	5.77	5.61		89.0	86.9	8.5	33.1	5.2	5.3		5.5	
6	WWA2	B	MID-EBB	2-Nov-06			26.3	5.80	5.64		88.0	86.4	8.5	33.1	4.4	4.5		13.0	
7	WWA3	S	MID-EBB	2-Nov-06	12:44	7.40	26.1	5.92	5.81	5.83	90.6	87.7	8.5	32.7	5.5	5.3	6.0	6.5	10.3
8	WWA3	M	MID-EBB	2-Nov-06			26.3	5.84	5.78		86.4	84.9	8.5	30.6	7.2	7.0		13.5	
9	WWA3	B	MID-EBB	2-Nov-06			26.0	5.74	5.62		85.2	84.6	8.5	33.2	5.7	5.4		11.0	
10	WRA1	S	MID-EBB	2-Nov-06	12:04	33.10	26.2	5.90	5.81	5.77	92.2	89.1	8.5	33.0	4.9	4.7	5.2	8.5	6.7
11	WRA1	M	MID-EBB	2-Nov-06			26.0	5.77	5.61		87.6	85.9	8.5	33.2	5.6	5.1		7.0	
12	WRA1	B	MID-EBB	2-Nov-06			25.6	5.58	5.50		84.5	83.6	8.5	33.4	5.5	5.4		10.5	
13	WRA2	S	MID-EBB	2-Nov-06	11:51	27.90	26.4	5.90	5.82	5.77	91.0	88.4	8.5	33.2	3.5	3.4	4.8	9.0	8.7
14	WRA2	M	MID-EBB	2-Nov-06			26.3	5.76	5.61		87.0	85.8	8.5	33.6	4.6	4.6		6.5	
15	WRA2	B	MID-EBB	2-Nov-06			26.0	5.68	5.49		85.0	83.9	8.5	33.1	6.2	6.2		8.5	
16	WRA3	S	MID-EBB	2-Nov-06	11:40	27.30	26.4	5.90	5.81	5.77	90.9	88.8	8.5	33.2	3.8	3.7	4.2	9.0	10.0
17	WRA3	M	MID-EBB	2-Nov-06			26.3	5.76	5.60		87.1	85.9	8.5	33.2	3.8	3.6		10.0	
18	WRA3	B	MID-EBB	2-Nov-06			26.2	5.65	5.48		86.4	84.1	8.5	33.1	5.2	5.1		11.0	
19	WWFCZ1	S	MID-EBB	2-Nov-06	10:58	31.20	25.9	5.94	5.86	5.82	92.7	90.3	8.5	33.5	4.8	4.7	5.5	8.5	10.3
20	WWFCZ1	M	MID-EBB	2-Nov-06			26.3	5.81	5.67		87.6	85.4	8.5	33.0	5.7	5.5		11.0	
21	WWFCZ1	B	MID-EBB	2-Nov-06			26.2	5.54	5.46		83.6	80.7	8.5	33.2	6.2	6.2		11.5	
22	WWFCZ2	S	MID-EBB	2-Nov-06	11:13	31.60	26.0	5.87	5.74	5.70	93.1	89.9	8.5	33.1	5.2	5.1	5.0	11.5	10.8
23	WWFCZ2	M	MID-EBB	2-Nov-06			26.3	5.67	5.53		87.8	85.6	8.5	33.2	4.1	4.1		11.5	
24	WWFCZ2	B	MID-EBB	2-Nov-06			26.4	5.60	5.47		83.2	80.5	8.5	33.1	5.9	5.8		6.5	
25	WFCZR1	S	MID-EBB	2-Nov-06	10:46	35.80	26.1	5.96	5.91	5.85	92.0	89.1	8.5	31.6	5.1	5.2	4.9	9.5	10.7
26	WFCZR1	M	MID-EBB	2-Nov-06			26.1	5.83	5.70		86.4	84.7	8.5	33.1	4.9	4.5		12.0	
27	WFCZR1	B	MID-EBB	2-Nov-06			25.9	5.63	5.40		85.0	82.4	8.5	32.8	4.9	4.8		10.5	
28	WFCZR2	S	MID-EBB	2-Nov-06	11:27	38.40	26.0	5.83	5.85	5.83	91.6	87.7	8.5	33.1	3.8	3.7	4.0	6.5	7.5
29	WFCZR2	M	MID-EBB	2-Nov-06			25.9	5.80	5.74		86.9	85.0	8.5	33.4	4.3	4.2		9.5	
30	WFCZR2	B	MID-EBB	2-Nov-06			25.8	5.59	5.52		85.4	83.4	8.5	33.2	4.2	4.0		6.5	
31	WWA1	S	MID-FLOOD	2-Nov-06	17:47	7.70	26.4	5.90	5.78	5.78	91.9	88.3	7.6	33.1	6.1	6.2	5.9	11.5	11.3
32	WWA1	M	MID-FLOOD	2-Nov-06			26.0	5.80	5.65		86.1	84.6	7.6	33.2	5.9	5.9		10.0	
33	WWA1	B	MID-FLOOD	2-Nov-06			26.0	5.70	5.56		86.7	84.8	7.6	33.1	5.7	5.5		12.5	
34	WWA2	S	MID-FLOOD	2-Nov-06	17:59	8.60	26.0	5.98	5.92	5.83	94.6	90.1	7.6	33.3	4.2	4.2	4.6	8.5	8.7
35	WWA2	M	MID-FLOOD	2-Nov-06			25.9	5.81	5.60		88.4	86.3	7.6	33.6	5.1	5.1		7.5	
36	WWA2	B	MID-FLOOD	2-Nov-06			26.3	5.57	5.46		85.5	83.7	7.6	33.2	4.6	4.6		10.0	
37	WWA3	S	MID-FLOOD	2-Nov-06	18:09	7.50	26.3	5.91	5.77	5.75	86.6	87.3	7.6	33.2	5.4	5.2	5.6	12.5	11.0
38	WWA3	M	MID-FLOOD	2-Nov-06			26.3	5.71	5.59		86.0	85.1	7.6	33.2	6.2	6.1		8.5	
39	WWA3	B	MID-FLOOD	2-Nov-06			26.2	5.60	5.47		83.7	81.0	7.6	33.2	5.4	5.4		12.0	
40	WRA1	S	MID-FLOOD	2-Nov-06	17:54	34.20	26.2	5.96	5.92	5.88	90.0	86.9	7.6	33.1	5.0	4.8	5.3	7.5	6.2
41	WRA1	M	MID-FLOOD	2-Nov-06			26.2	5.84	5.78		87.1	85.4	7.6	33.0	5.2	5.4		6.0	
42	WRA1	B	MID-FLOOD	2-Nov-06			26.0	5.67	5.53		86.9	84.0	7.6	33.2	5.7	5.7		5.0	
43	WRA2	S	MID-FLOOD	2-Nov-06	17:22	28.80	26.4	5.95	5.91	5.87	93.3	90.4	7.6	33.0	3.5	3.5	4.5	5.0	5.8
44	WRA2	M	MID-FLOOD	2-Nov-06			26.4	5.86	5.74		87.6	86.1	7.6	32.2	4.2	4.7		6.5	
45	WRA2	B	MID-FLOOD	2-Nov-06			26.1	5.60	5.49		85.7	84.6	7.6	33.2	5.7	5.7		10.5	

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Marine Water Quality Impact Monitoring - November 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
46	WRA3	S	MID-FLOOD	2-Nov-06	17:10	27.50	26.3	5.86	5.76	5.73	91.4	88.6	7.6	33.0	3.9	3.8	4.3	6.0	12.0
47	WRA3	M	MID-FLOOD	2-Nov-06			26.3	5.71	5.58		87.5	86.0	7.6	33.0	3.7	3.7		6.5	
48	WRA3	B	MID-FLOOD	2-Nov-06			26.3	5.53	5.42		85.7	84.1	7.6	33.0	5.0	5.4		23.5	
49	WWFCZ1	S	MID-FLOOD	2-Nov-06	16:28	36.30	26.4	5.96	5.91	5.83	92.0	88.7	7.6	33.1	4.9	4.9	5.6	6.5	7.5
50	WWFCZ1	M	MID-FLOOD	2-Nov-06			26.0	5.80	5.66		86.0	85.1	7.6	33.5	5.7	5.8		9.0	
51	WWFCZ1	B	MID-FLOOD	2-Nov-06			26.4	5.68	5.33		84.6	83.4	7.6	33.0	6.1	6.2		7.0	
52	WWFCZ2	S	MID-FLOOD	2-Nov-06	16:40	35.40	26.6	5.89	5.80	5.80	95.0	93.1	7.5	33.0	5.2	5.2	5.4	9.5	10.0
53	WWFCZ2	M	MID-FLOOD	2-Nov-06			26.5	5.77	5.72		90.0	86.9	7.5	33.1	5.4	5.3		10.5	
54	WWFCZ2	B	MID-FLOOD	2-Nov-06			26.5	5.58	5.51		86.0	84.7	7.5	33.0	5.7	5.7		10.0	
55	WFCZR1	S	MID-FLOOD	2-Nov-06	16:16	40.50	26.5	5.94	5.85	5.79	91.6	88.1	7.6	33.1	5.2	5.4	5.2	11.5	12.3
56	WFCZR1	M	MID-FLOOD	2-Nov-06			26.4	5.77	5.60		86.4	85.0	7.6	33.0	5.5	5.5		11.5	
57	WFCZR1	B	MID-FLOOD	2-Nov-06			26.3	5.57	5.49		84.3	83.7	7.6	33.1	4.9	4.8		14.0	
58	WFCZR2	S	MID-FLOOD	2-Nov-06	16:53	41.60	25.7	5.94	5.89	5.83	94.4	91.6	7.7	33.0	4.0	3.8	4.1	12.0	9.5
59	WFCZR2	M	MID-FLOOD	2-Nov-06			26.3	5.81	5.66		87.2	85.1	7.7	33.1	4.1	4.2		10.0	
60	WFCZR2	B	MID-FLOOD	2-Nov-06			26.0	5.67	5.56		86.5	84.5	7.7	33.0	4.4	4.4		6.5	
61	WWA1	S	MID-EBB	4-Nov-06	11:22	7.10	25.9	5.89	5.82	5.79	94.0	91.0	8.3	33.2	6.2	6.2	6.4	12.5	14.2
62	WWA1	M	MID-EBB	4-Nov-06			25.6	5.76	5.70		88.6	87.0	8.3	33.3	6.3	6.3		14.5	
63	WWA1	B	MID-EBB	4-Nov-06			25.6	5.80	5.76		87.4	86.1	8.3	33.4	6.5	6.6		15.5	
64	WWA2	S	MID-EBB	4-Nov-06	11:31	8.10	26.2	5.92	5.83	5.87	91.6	87.9	8.3	33.2	6.5	6.5	7.0	13.0	14.0
65	WWA2	M	MID-EBB	4-Nov-06			25.9	5.90	5.84		86.4	86.9	8.3	33.2	6.7	6.9		13.5	
66	WWA2	B	MID-EBB	4-Nov-06			25.8	5.76	5.72		85.9	85.3	8.3	33.5	7.7	7.8		15.5	
67	WWA3	S	MID-EBB	4-Nov-06	11:43	6.80	26.1	5.87	5.82	5.79	93.3	90.9	8.3	33.3	6.2	6.3	6.3	9.5	13.3
68	WWA3	M	MID-EBB	4-Nov-06			26.0	5.77	5.70		86.3	86.9	8.3	33.3	6.4	6.4		17.0	
69	WWA3	B	MID-EBB	4-Nov-06			26.1	5.80	5.72		85.9	84.6	8.3	33.2	6.5	6.3		13.5	
70	WRA1	S	MID-EBB	4-Nov-06	11:19	32.80	25.9	5.96	5.91	5.89	92.1	87.9	8.4	33.2	6.5	6.5	6.4	21.0	26.0
71	WRA1	M	MID-EBB	4-Nov-06			26.2	5.86	5.81		89.2	87.4	8.4	33.1	6.3	6.2		29.0	
72	WRA1	B	MID-EBB	4-Nov-06			26.1	5.75	5.62		85.9	85.3	8.3	33.2	6.5	6.5		28.0	
73	WRA2	S	MID-EBB	4-Nov-06	11:10	27.80	26.2	5.94	5.87	5.86	97.6	94.3	8.3	33.2	9.5	8.7	11.1	14.0	22.0
74	WRA2	M	MID-EBB	4-Nov-06			25.9	5.84	5.80		87.7	87.0	8.3	33.2	11.5	12.4		25.0	
75	WRA2	B	MID-EBB	4-Nov-06			26.1	5.77	5.70		86.6	86.0	8.3	33.2	13.2	11.5		27.0	
76	WRA3	S	MID-EBB	4-Nov-06	11:00	26.90	26.2	5.96	5.91	5.85	91.0	87.4	8.3	33.2	6.4	6.5	6.6	16.5	22.7
77	WRA3	M	MID-EBB	4-Nov-06			26.2	5.84	5.70		87.0	85.2	8.3	33.2	6.5	6.6			

HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau - Environmental Monitoring & Audit Service
 Marine Water Quality Impact Monitoring - November 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
90	WFCZR2	E	MID-EBB	4-Nov-06			26.0	5.60	5.54	5.57	85.0	83.7	8.4	33.3	7.4	7.2	6.8	15.0	17.7
91	WWA1	S	MID-FLOOD	4-Nov-06			26.0	5.96	5.94		92.6	89.1	8.5	33.3	6.4	6.4		17.0	
92	WWA1	M	MID-FLOOD	4-Nov-06	17:27	7.50	26.0	5.86	5.71	5.87	88.0	86.4	8.5	33.3	6.4	6.4		14.5	
93	WWA1	B	MID-FLOOD	4-Nov-06			25.8	5.63	5.59	5.61	88.0	84.2	8.5	33.3	6.4	6.4		15.0	15.5
94	WWA2	S	MID-FLOOD	4-Nov-06			26.3	5.93	5.87		90.9	89.4	8.5	33.2	6.7	6.3		11.0	
95	WWA2	M	MID-FLOOD	4-Nov-06	17:36	8.30	26.3	5.81	5.75	5.84	87.6	85.9	8.5	33.2	6.9	6.8		12.0	
96	WWA2	B	MID-FLOOD	4-Nov-06			25.9	5.68	5.61	5.65	87.6	85.5	8.5	33.1	6.5	6.5	6.6	9.5	10.8
97	WWA3	S	MID-FLOOD	4-Nov-06			26.4	5.96	5.92		94.6	91.2	8.5	33.1	6.0	5.6		7.5	
98	WWA3	M	MID-FLOOD	4-Nov-06	17:45	7.20	25.9	5.85	5.80	5.88	88.6	87.2	8.5	33.4	6.3	6.5		13.0	
99	WWA3	B	MID-FLOOD	4-Nov-06			26.2	5.66	5.57	5.62	85.7	84.1	8.5	33.2	6.7	6.6	6.4	15.5	13.0
100	WRA1	S	MID-FLOOD	4-Nov-06			26.2	5.92	5.85		92.0	89.1	8.5	33.2	6.6	6.7		14.5	
101	WRA1	M	MID-FLOOD	4-Nov-06	17:17	33.10	26.3	5.81	5.76	5.84	87.6	85.9	8.5	33.0	6.4	6.5		22.5	
102	WRA1	B	MID-FLOOD	4-Nov-06			26.0	5.64	5.56	5.60	87.0	85.2	8.5	33.0	7.0	7.0	6.7	21.0	19.3
103	WRA2	S	MID-FLOOD	4-Nov-06			26.4	5.91	5.82		90.6	88.2	8.5	33.2	7.2	7.1		6.5	
104	WRA2	M	MID-FLOOD	4-Nov-06	17:06	28.20	26.2	5.80	5.66	5.80	87.6	86.4	8.5	33.3	7.0	6.6		18.5	
105	WRA2	B	MID-FLOOD	4-Nov-06			26.2	5.66	5.59	5.64	87.1	85.3	8.5	33.2	7.2	7.1	7.0	19.0	15.3
106	WRA3	S	MID-FLOOD	4-Nov-06			26.4	5.94	5.85		93.0	90.6	8.5	33.2	6.4	6.4		12.5	
107	WRA3	M	MID-FLOOD	4-Nov-06	16:56	27.30	26.2	5.81	5.70	5.83	87.6	85.9	8.5	33.2	6.5	6.8		16.5	
108	WRA3	B	MID-FLOOD	4-Nov-06			26.1	5.62	5.56	5.59	86.8	85.0	8.5	33.3	7.2	7.4	6.8	20.0	16.3
109	WWFCZ1	S	MID-FLOOD	4-Nov-06			26.3	5.90	5.78		90.4	89.2	8.5	33.1	6.4	6.3		11.5	
110	WWFCZ1	M	MID-FLOOD	4-Nov-06	16:24	35.90	26.5	5.72	5.66	5.77	88.5	86.0	8.5	33.0	6.2	6.2	6.6	15.5	16.2
111	WWFCZ1	B	MID-FLOOD	4-Nov-06			26.3	5.61	5.56	5.59	87.0	84.6	8.5	33.1	7.4	7.3		13.0	
112	WWFCZ2	S	MID-FLOOD	4-Nov-06			26.4	5.91	5.80		95.0	91.2	8.5	33.2	6.5	6.5		21.5	
113	WWFCZ2	M	MID-FLOOD	4-Nov-06	16:34	35.20	26.4	5.76	5.61	5.77	88.1	87.0	8.5	32.5	6.6	6.3		22.5	19.0
114	WWFCZ2	B	MID-FLOOD	4-Nov-06			26.4	5.66	5.54	5.61	86.0	84.9	8.5	33.0	6.6	6.4	6.5	18.0	
115	WFCZR1	S	MID-FLOOD	4-Nov-06			26.3	5.96	5.90		91.1	87.6	8.5	32.9	6.5	6.5		14.0	
116	WFCZR1	M	MID-FLOOD	4-Nov-06	16:13	40.30	26.3	5.81	5.70	5.84	85.9	85.0	8.5	33.2	7.0	6.8		27.0	19.7
117	WFCZR1	B	MID-FLOOD	4-Nov-06			26.1	5.68	5.59	5.64	85.7	84.9	8.5	33.2	7.2	7.1	6.9	15.0	
118	WFCZR2	S	MID-FLOOD	4-Nov-06			26.4	5.94	5.85		93.6	91.0	8.5	33.2	6.3	6.4		16.5	
119	WFCZR2	M	MID-FLOOD	4-Nov-06	16:45	40.70	26.3	5.76	5.70	5.81	87.7	86.3	8.5	33.2	6.4	6.8		24.0	19.2
120	WFCZR2	B	MID-FLOOD	4-Nov-06			26.4	5.80	5.62	5.71	86.8	84.4	8.5	32.0	7.2	7.2	6.7	14.0	
121	WWA1	S	MID-EBB	6-Nov-06			26.1	5.89	5.81		85.2	87.9	7.9	33.0	6.7	6.7		22.0	
122	WWA1	M	MID-EBB	6-Nov-06	15:40	7.40	26.1	5.76	5.52	5.75	86.7	84.9	7.9	33.0	6.3	6.2		25.0	20.3
123	WWA1	B	MID-EBB	6-Nov-06			25.9	5.54	5.40	5.47	86.1	83.8	7.9	32.7	6.2	6.1	6.4	13.0	
124	WWA2	S	MID-EBB	6-Nov-06			26.4	5.89	5.76		92.2	87.9	7.8	32.9	6.2	6.0		16.5	
125	WWA2	M	MID-EBB	6-Nov-06	15:50	8.30	26.2	5.70	5.58	5.73	86.4	84.7	7.8	32.9	6.1	6.3		22.5	17.3
126	WWA2	B	MID-EBB	6-Nov-06			26.2	5.60	5.48	5.54	85.0	82.6	7.8	32.9	6.6	6.4	6.3	17.0	
127	WWA3	S	MID-EBB	6-Nov-06			26.0	5.92	5.86		91.9	87.9	7.8	32.8	5.7	5.8		15.5	
128	WWA3	M	MID-EBB	6-Nov-06	16:04	7.10	25.8	5.84	5.74	5.84	86.9	86.2	7.8	33.2	6.3	6.1	6.0	20.0	18.5
129	WWA3	B	MID-EBB	6-Nov-06			26.0	5.60	5.55	5.58	85.9	84.1	7.8	33.2	6.1	6.0		8.5	
130	WRA1	S	MID-EBB	6-Nov-06			26.2	5.82	5.81		89.7	88.2	7.7	32.1	6.1	6.1		9.5	
131	WRA1	M	MID-EBB	6-Nov-06	15:29	33.10	26.2	5.80	5.59	5.78	90.6	87.7	7.7	33.0	6.4	6.4	7.0	13.5	10.5
132	WRA1	B	MID-EBB	6-Nov-06			26.2	5.62	5.42	5.52	86.3	85.0	7.7	33.0	6.5	6.4		12.0	
133	WRA2	S	MID-EBB	6-Nov-06			26.1	5.96	5.90		91.9	89.6	7.6	33.1	6.1	6.2			

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HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau - Environmental Monitoring & Audit Service
 Marine Water Quality Impact Monitoring - November 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
134	WRA2	M	MID-EBB	6-Nov-06	15:17	29.20	26.0	5.78	5.64	5.63	87.8	86.1	7.6	33.1	6.5	6.4		12.0	
135	WRA2	B	MID-EBB	6-Nov-06			25.9	5.84	5.60	5.72	85.7	84.8	7.6	33.1	7.4	7.4	6.7	10.5	11.5
136	WRA3	S	MID-EBB	6-Nov-06			26.2	5.90	5.79		93.3	90.6	7.7	33.1	6.1	6.1		11.0	
137	WRA3	M	MID-EBB	6-Nov-06	15:07	27.60	26.1	5.62	5.61	5.76	87.9	86.2	7.7	33.1	5.8	5.8		11.0	
138	WRA3	B	MID-EBB	6-Nov-06			26.1	5.58	5.47	5.53	85.0	83.7	7.7	33.0	8.2	8.3	6.7	18.0	13.3
139	WWFCZ1	S	MID-EBB	6-Nov-06			26.3	5.98	5.90		92.8	89.3	7.8	33.1	5.3	5.4		6.5	
140	WWFCZ1	M	MID-EBB	6-Nov-06	14:28	35.80	26.1	5.64	5.72	5.86	87.1	85.9	7.8	32.2	5.0	4.8		10.5	
141	WWFCZ1	B	MID-EBB	6-Nov-06			25.8	5.76	5.48	5.62	86.0	84.3	7.8	33.0	5.7	6.1	5.4	14.0	10.3
142	WWFCZ2	S	MID-EBB	6-Nov-06			25.9	5.90	5.77		91.9	87.6	7.7	33.2	3.8	3.8		14.0	
143	WWFCZ2	M	MID-EBB	6-Nov-06	14:53	36.20	25.9	5.70	5.62	5.75	85.6	84.9	7.7	33.1	6.1	5.9		17.0	
144	WWFCZ2	B	MID-EBB	6-Nov-06			25.9	5.57	5.41	5.49	86.0	83.6	7.7	33.1	7.1	7.2	5.7	20.0	17.0
145	WFCZR1	S	MID-EBB	6-Nov-06			26.2	5.94	5.87		94.6	90.9	7.8	33.0	4.8	4.8		8.5	
146	WFCZR1	M	MID-EBB	6-Nov-06	14:17	40.30	25.9	5.82	5.70	5.83	89.6	87.1	7.8	33.1	6.1	6.1		9.0	
147	WFCZR1	B	MID-EBB	6-Nov-06			25.7	5.76	5.61	5.69	85.9	84.2	7.7	33.0	5.6	5.6	5.5	12.0	9.8
148	WFCZR2	S	MID-EBB	6-Nov-06			26.3	5.90	5.74		92.2	88.5	7.6	32.7	4.1	4.1		8.0	
149	WFCZR2	M	MID-EBB	6-Nov-06	14:40	40.90	26.3	5.71	5.58	5.73	86.9	84.7	7.6	33.1	6.3	6.3		9.5	
150	WFCZR2	B	MID-EBB	6-Nov-06			26.2	5.67	5.44	5.56	85.6	82.2	7.6	33.1	7.5	7.3	5.9	19.5	12.3
151	WWA1	S	MID-FLOOD	6-Nov-06			25.9	5.94	5.85		95.9	90.6	8.5	33.1	6.6	6.6		13.0	
152	WWA1	M	MID-FLOOD	6-Nov-06	11:03	7.60	25.8	5.81	5.68	5.82	86.3	85.9	8.5	33.2	6.5	6.4		17.5	
153	WWA1	B	MID-FLOOD	6-Nov-06			25.8	5.60	5.47	5.54	86.0	84.7	8.5	33.0	6.3	6.3	6.4	18.0	16.2
154	WWA2	S	MID-FLOOD	6-Nov-06			26.0	5.84	5.90		91.6	88.4	8.5	33.0	6.3	6.1		10.0	
155	WWA2	M	MID-FLOOD	6-Nov-06	11:18	8.50	25.8	5.84	5.77	5.86	87.0	85.9	8.5	32.6	6.2	6.2		21.0	
156	WWA2	B	MID-FLOOD	6-Nov-06			25.6	5.50	5.41	5.46	85.4	83.6	8.5	33.2	6.4	6.5	6.3	22.0	17.7
157	WWA3	S	MID-FLOOD	6-Nov-06			25.9	5.97	5.91		91.2	89.6	8.5	33.2	5.9	5.6		14.0	
158	WWA3	M	MID-FLOOD	6-Nov-06	11:28	7.30	25.9	5.82	5.76	5.87	89.0	85.6	8.5	33.1	6.1	6.1		16.5	
159	WWA3	B	MID-FLOOD	6-Nov-06			25.8	5.71	5.55	5.63	85.0	83.9	8.5	33.1	6.2	6.4	6.1	19.0	16.5
160	WRA1	S	MID-FLOOD	6-Nov-06			26.2	5.87	5.91		91.7	88.4	8.5	33.1	6.2	6.2		17.0	
161	WRA1	M	MID-FLOOD	6-Nov-06	10:50	34.20	26.1	5.87	5.76	5.88	86.6	84.9	8.5	33.1	6.4				

HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau – Environmental Monitoring & Audit Service
 Marine Water Quality Impact Monitoring - November 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
178	WFCZR2	S	MID-FLOOD	6-Nov-06	10:18	41.20	25.9	5.96	5.90	5.87	96.1	92.2	8.4	33.2	4.8	4.8	5.6	34.0	35.3
179	WFCZR2	M	MID-FLOOD	6-Nov-06			25.5	5.86	5.77		87.6	85.4	8.4	33.3	5.7	5.9		43.5	
180	WFCZR2	B	MID-FLOOD	6-Nov-06			25.8	5.67	5.50		84.3	83.8	8.4	33.1	6.2	6.4		25.5	
181	WWA1	S	MID-EBB	8-Nov-06	15:06	7.00	25.9	5.94	5.76	5.81	90.9	86.5	7.6	32.9	6.7	6.5	7.4	21.5	21.7
182	WWA1	M	MID-EBB	8-Nov-06			25.9	5.86	5.69		87.4	85.2	7.6	32.9	6.4	6.2		23.0	
183	WWA1	B	MID-EBB	8-Nov-06			25.8	5.84	5.70		86.5	83.9	7.6	32.8	7.2	7.5		26.5	
184	WWA2	S	MID-EBB	8-Nov-06	14:56	7.80	25.9	5.94	5.82	5.83	93.7	90.2	7.6	32.6	5.5	5.7	6.6	18.0	21.7
185	WWA2	M	MID-EBB	8-Nov-06			25.8	5.86	5.71		88.6	86.3	7.6	32.6	6.9	6.9		20.5	
186	WWA2	B	MID-EBB	8-Nov-06			25.8	5.74	5.66		87.2	85.0	7.6	33.2	7.2	7.3		26.5	
187	WWA3	S	MID-EBB	8-Nov-06	14:46	6.90	25.9	5.90	5.80	5.76	92.7	88.6	7.6	32.9	6.7	6.8	8.7	21.5	23.0
188	WWA3	M	MID-EBB	8-Nov-06			25.8	5.72	5.60		89.6	87.1	7.6	33.1	6.3	6.2		21.0	
189	WWA3	B	MID-EBB	8-Nov-06			25.7	5.77	5.64		87.6	86.0	7.6	33.1	6.2	6.2		26.5	
190	WRA1	S	MID-EBB	8-Nov-06	15:16	32.00	25.9	5.93	5.78	5.80	95.6	91.1	7.5	32.8	6.5	6.8	9.5	14.0	16.5
191	WRA1	M	MID-EBB	8-Nov-06			25.7	5.80	5.67		88.3	86.9	7.5	33.0	9.8	9.8		17.5	
192	WRA1	B	MID-EBB	8-Nov-06			25.8	5.75	5.53		83.2	84.6	7.5	33.0	10.2	10.2		18.0	
193	WRA2	S	MID-EBB	8-Nov-06	15:26	28.80	25.9	5.90	5.77	5.73	92.6	88.7	7.5	33.0	9.9	9.7	8.8	14.5	13.5
194	WRA2	M	MID-EBB	8-Nov-06			25.9	5.70	5.55		87.4	85.2	7.5	33.0	8.2	8.5		12.0	
195	WRA2	B	MID-EBB	8-Nov-06			25.9	5.68	5.47		86.0	83.8	7.5	32.9	8.3	8.4		14.0	
196	WRA3	S	MID-EBB	8-Nov-06	15:36	28.00	25.8	5.89	5.75	5.79	96.7	91.0	7.5	32.9	8.7	8.7	8.8	16.0	16.2
197	WRA3	M	MID-EBB	8-Nov-06			25.8	5.80	5.72		89.7	85.6	7.5	33.0	8.2	8.1		21.5	
198	WRA3	B	MID-EBB	8-Nov-06			25.8	5.85	5.58		87.6	86.9	7.5	33.0	9.5	9.9		17.0	
199	WWFCZ1	S	MID-EBB	8-Nov-06	16:10	34.20	25.7	5.90	5.74	5.76	92.9	87.6	7.6	33.0	7.5	7.7	7.9	18.5	24.7
200	WWFCZ1	M	MID-EBB	8-Nov-06			25.6	5.76	5.64		87.5	85.6	7.6	33.0	6.2	6.3		27.0	
201	WWFCZ1	B	MID-EBB	8-Nov-06			25.3	5.68	5.47		86.1	84.0	7.6	33.0	7.9	7.8		28.5	
202	WWFCZ2	S	MID-EBB	8-Nov-06	15:59	35.00	25.6	5.96	5.90	5.86	95.6	91.7	7.6	33.0	6.0	6.2	8.5	15.5	31.0
203	WWFCZ2	M	MID-EBB	8-Nov-06			25.6	5.84	5.72		87.5	86.0	7.6	33.0	7.4	7.6		33.5	
204	WWFCZ2	B	MID-EBB	8-Nov-06			25.6	5.76	5.57		86.3	85.7	7.6	33.1	9.8	9.7		44.0	
205	WFCZR1	S	MID-EBB	8-Nov-06	16:20	40.00	25.6	5.95	5.86	5.82	96.0	90.9	7.6	33.1	8.4	8.3	9.5	15.0	22.2
206	WFCZR1	M	MID-EBB	8-Nov-06			25.7	5.82	5.64		88.7	84.9	7.6	33.1	10.9	9.9		26.0	
207	WFCZR1	B	MID-EBB	8-Nov-06			25.7	5.70	5.53		85.6	83.9	7.6	33.0	9.5	9.9		22.5	
208	WFCZR2	S	MID-EBB	8-Nov-06	15:48	40.50	25.4	5.90	5.76	5.80	89.2	87.1	7.6	33.1	9.2	9.2	8.7	16.5	19.2
209	WFCZR2	M	MID-EBB	8-Nov-06			25.6	5.84	5.68		86.0	85.9	7.6	33.0	8.8	8.6		22.5	
210	WFCZR2	B	MID-EBB	8-Nov-06			25.6	5.82	5.60		89.0	86.9	7.6	32.9	8.2	8.2		18.5	
211	WWA1	S	MID-FLOOD	8-Nov-06	11:23	7.30	25.7	5.91	5.64	5.84	94.0	91.9	8.5	33.0	8.8	8.8	7.8	15.5	17.2
212	WWA1	M	MID-FLOOD	8-Nov-06			25.4	5.86	5.73		87.0	85.8	8.5	33.1	6.1	6.0		16.0	
213	WWA1	B	MID-FLOOD	8-Nov-06			25.4	5.68	5.42		86.3	84.5	8.5	33.0	8.1	8.5		20.0	
214	WWA2	S	MID-FLOOD	8-Nov-06	11:32	8.00	25.7	5.99	5.95	5.90	90.2	86.6	8.5	32.9	5.4	5.7	7.0	14.0	17.2
215	WWA2	M	MID-FLOOD	8-Nov-06			25.6	5.88	5.78		87.9	85.0	8.5	33.0	7.1	7.2		19.0	
216	WWA2	B	MID-FLOOD	8-Nov-06			25.7	5.70	5.44		87.2	84.6	8.5	33.0	6.3	6.1		18.5	
217	WWA3	S	MID-FLOOD	8-Nov-06	11:41	7.50	25.6	5.91	5.82	5.84	93.4	90.6	8.5	33.0	8.6	8.4	8.7	11.0	19.0
218	WWA3	M	MID-FLOOD	8-Nov-06			25.5	5.83	5.79		88.2	86.4	8.5	33.1	10.4	9.8		23.0	
219	WWA3	B	MID-FLOOD	8-Nov-06			25.7	5.73	5.60		85.0	83.2	8.5	33.0	7.7	7.6		23.0	
220	WRA1	S	MID-FLOOD	8-Nov-06	11:14	34.00	25.7	5.90	5.78	5.78	93.7	90.0	8.5	33.1	8.3	8.3	8.8	21.5	25.0
221	WRA1	M	MID-FLOOD	8-Nov-06			25.8	5.81	5.64		89.2	87.6	8.5	33.0	10.5	9.4		25.0	

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HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau – Environmental Monitoring & Audit Service
 Marine Water Quality Impact Monitoring - November 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
222	WRA1	B	MID-FLOOD	8-Nov-06	11:01	29.00	25.7	5.90	5.52	5.56	87.5	85.2	8.5	33.0	14.4	13.9	10.6	21.5	22.7
223	WRA2	S	MID-FLOOD	8-Nov-06			25.8	5.96	5.91		92.4	90.7	8.5	33.0	10.7	10.5		15.5	
224	WRA2	M	MID-FLOOD	8-Nov-06			25.7	5.86	5.74		87.9	86.2	8.5	33.0	7.9	7.9		18.5	
225	WRA2	B	MID-FLOOD	8-Nov-06	10:52	28.40	25.8	5.66	5.51	5.59	87.4	84.7	8.5	33.0	6.2	6.2	8.9	21.0	18.3
226	WRA3	S	MID-FLOOD	8-Nov-06			25.5	5.93	5.80		91.8	88.4	8.5	33.0	6.7	6.7		20.0	
227	WRA3	M	MID-FLOOD	8-Nov-06			25.7	5.70	5.62		88.9	86.7	8.5	33.0	9.7	9.8		23.0	
228	WRA3	B	MID-FLOOD	8-Nov-06	10:22	34.00	25.7	5.89	5.47	5.76	86.2	84.6	8.5	33.1	8.2	8.2	8.9	18.5	20.5
229	WWFCZ1	S	MID-FLOOD	8-Nov-06			25.5	5.91	5.82		91.8	88.8	8.5	33.0	7.9	7.8		10.5	
230	WWFCZ1	M	MID-FLOOD	8-Nov-06			25.5	5.76	5.62		87.0	85.3	8.5	32.9	8.3	8.1		32.0	
231	WWFCZ1	B	MID-FLOOD	8-Nov-06	10:32	35.00	25.4	5.59	5.43	5.51	86.0	83.4	8.5	32.9	7.6	7.6	7.9	28.0	23.5
232	WWFCZ2	S	MID-FLOOD	8-Nov-06			25.5	5.92	5.86		89.8	87.4	8.5	33.1	8.1	8.2		29.5	
233	WWFCZ2	M	MID-FLOOD	8-Nov-06			25.7	5.82	5.71		86.9	85.3	8.5	32.9	7.3	7.3		47.0	
234	WWFCZ2	B	MID-FLOOD	8-Nov-06	10:11	42.00	25.7	5.59	5.46	5.53	86.0	84.1	8.5	33.2	10.8	10.2	8.7	55.0	43.6
235	WFCZR1	S	MID-FLOOD	8-Nov-06			25.0	5.82	5.83		95.6	90.9	8.5	33.0	8.1	6.0		24.0	
236	WFCZR1	M	MID-FLOOD	8-Nov-06			25.5	5.80	5.68		89.0	87.5	8.5	33.1	11.8	12.5		50.5	
237	WFCZR1	B	MID-FLOOD	8-Nov-06	10:42	41.30	25.7	5.64	5.57	5.61	87.4	85.2	8.5	33.1	11.3	10.8	10.4	41.5	38.7
238	WFCZR2	S	MID-FLOOD	8-Nov-06			25.6	5.91	5.84		91.6	88.5	8.5	33.0	10.7	9.6		35.5	
239	WFCZR2	M	MID-FLOOD	8-Nov-06			25.3	5.80	5.64		87.0	85.1	8.5	33.2	6.6	6.6		27.0	
240	WFCZR2	B	MID-FLOOD	8-Nov-06	16:59	6.80	25.5	5.68	5.48	5.57	86.9	84.0	8.5	33.0	7.7	7.8	8.8	27.0	29.8
241	WWA1	S	MID-EBB	10-Nov-06			25.9	5.91	5.80		92.8	87.6	8.1	32.4	3.2	3.2		6.5	
242	WWA1	M	MID-EBB	10-Nov-06			25.8	5.76	5.64		89.9	84.4	8.1	32.5	5.0	4.9		5.5	
243	WWA1	B	MID-EBB	10-Nov-06	17:08	7.50	25.7	5.71	5.52	5.62	88.4	83.7	8.1	32.6	5.0	5.2	4.4	10.0	7.3
244	WWA2	S	MID-EBB	10-Nov-06			25.9	5.94	5.82		94.0	90.3	8.1	32.3	3.5	3.6		5.0	
245	WWA2	M	MID-EBB	10-Nov-06			25.8	5.90	5.71		87.6	84.1	8.1	32.4	3.8	3.8		6.0	
246	WWA2	B	MID-EBB	10-Nov-06	17:18	6.70	25.8	5.90	5.67	5.79	88.0	83.9	8.1	32.5	4.2	4.8	3.9	6.0	5.7
247	WWA3	S	MID-EBB	10-Nov-06			25.9	5.91	5.76		91.2	87.6	8.1	32.3	3.9	3.7		5.5	
248	WWA3	M	MID-EBB	10-Nov-06			25.8	5.80	5.61		87.9	84.6	8.1	32.5	4.2	4.5		7.5	
249	WWA3	B	MID-EBB	10-Nov-06	16:49	31.80	25.6	5.76	5.40	5.58	86.0	82.1	8.1	32.5	4.2	4.5	4.2	8.5	7.2
250	WRA1	S	MID-EBB	10-Nov-06			25.8	5.94	5.81		96.2	90.6	8.3	32.4	4.8	4.9		6.0	
251	WRA1	M	MID-EBB	10-Nov-06			25.6	5.79	5.49		89.4	85.0	8.3	32.4	4.3	4.4		8.0	
252	WRA1	B	MID-EBB	10-Nov-06	16:37	29.70	25.6	5.82	5.60	5.71	87.8	83.4	8.3	32.5	4.2	4.8	4.5	7.0	7.0
253	WRA2	S	MID-EBB	10-Nov-06			25.6	5.90	5.76		96.6	92.9	8.4	32.4	4.0	3.9			

HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau – Environmental Monitoring & Audit Service
 Marine Water Quality Impact Monitoring - November 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO % saturation (1)	DO % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
266	WFCZR1	M	MID-EBB	10-Nov-06	15:45	39.70	25.2	5.92	5.73	5.82	90.9	86.0	8.1	32.7	6.1	6.1	6.2	12.5	11.8
267	WFCZR1	E	MID-EBB	10-Nov-06			25.6	5.78	5.46	5.62	89.6	84.1	8.1	32.8	6.0	6.2		14.0	
268	WFCZR2	S	MID-EBB	10-Nov-06	16:16	40.80	25.7	5.96	5.83	5.80	94.6	90.0	8.1	32.2	4.0	4.1	4.5	8.0	8.7
269	WFCZR2	M	MID-EBB	10-Nov-06			25.8	5.80	5.61		87.6	84.3	8.1	32.4	4.6	4.7			
270	WFCZR2	B	MID-EBB	10-Nov-06			25.8	5.79	5.42	5.61	86.7	83.0	8.1	32.8	4.8	4.8		13.0	
271	WWA1	S	MID-FLOOD	10-Nov-06	11:59	7.90	25.7	5.91	5.63	5.80	90.9	87.6	8.0	31.2	3.7	3.7	4.7	9.0	12.0
272	WWA1	M	MID-FLOOD	10-Nov-06			25.6	5.80	5.67		87.0	85.9	8.0	32.0	5.0	5.1			
273	WWA1	B	MID-FLOOD	10-Nov-06			25.6	5.61	5.46	5.54	86.0	84.3	8.0	32.0	5.2	5.3		13.5	
274	WWA2	S	MID-FLOOD	10-Nov-06	12:07	8.30	25.6	5.88	5.72	5.76	91.9	87.3	8.0	32.2	3.6	3.6	3.8	8.5	10.3
275	WWA2	M	MID-FLOOD	10-Nov-06			25.6	5.84	5.66		87.0	85.8	8.0	32.2	3.8	3.6			
276	WWA2	B	MID-FLOOD	10-Nov-06			25.5	5.70	5.51	5.61	86.3	83.8	8.0	30.3	4.1	4.2		13.0	
277	WWA3	S	MID-FLOOD	10-Nov-06	12:17	7.60	25.6	5.90	5.73	5.72	97.6	92.2	8.0	32.2	3.7	3.7	4.0	7.0	7.7
278	WWA3	M	MID-FLOOD	10-Nov-06			25.5	5.76	5.67		87.3	85.5	8.0	32.2	4.1	4.2			
279	WWA3	B	MID-FLOOD	10-Nov-06			25.6	5.80	5.63	5.72	87.0	84.1	8.0	32.3	4.1	4.3		9.0	
280	WRA1	S	MID-FLOOD	10-Nov-06	11:48	34.70	25.6	5.99	5.90	5.88	97.3	92.2	8.0	32.2	4.2	4.5	4.4	8.5	9.7
281	WRA1	M	MID-FLOOD	10-Nov-06			25.6	5.84	5.71		88.9	84.6	8.0	32.2	4.5	4.7			
282	WRA1	B	MID-FLOOD	10-Nov-06			25.7	5.79	5.62	5.71	87.0	83.8	8.0	32.2	4.2	4.2		11.0	
283	WRA2	S	MID-FLOOD	10-Nov-06	11:38	29.60	25.6	5.97	5.84	5.79	95.9	90.2	8.0	32.1	3.9	4.0	3.9	11.5	8.7
284	WRA2	M	MID-FLOOD	10-Nov-06			25.5	5.79	5.54		87.4	85.6	8.0	32.0	3.3	3.7			
285	WRA2	B	MID-FLOOD	10-Nov-06			25.5	5.80	5.61	5.71	86.6	84.4	8.0	32.0	4.2	4.4		8.0	
286	WRA3	S	MID-FLOOD	10-Nov-06	11:24	28.80	25.8	5.94	5.82	5.85	91.6	87.6	8.0	32.0	4.1	4.2	4.5	16.0	9.2
287	WRA3	M	MID-FLOOD	10-Nov-06			25.7	5.88	5.76		89.4	85.6	8.0	32.1	4.4	4.6			
288	WRA3	B	MID-FLOOD	10-Nov-06			25.7	5.80	5.70	5.75	87.7	84.2	8.0	32.2	4.6	4.8		9.5	
289	WWFCZ1	S	MID-FLOOD	10-Nov-06	10:52	34.50	25.7	5.97	5.92	5.87	95.6	92.7	7.8	31.7	4.0	4.2	4.7	6.5	8.3
290	WWFCZ1	M	MID-FLOOD	10-Nov-06			25.7	5.84	5.76		88.1	86.0	7.8	31.9	4.8	4.8			
291	WWFCZ1	B	MID-FLOOD	10-Nov-06			25.5	5.80	5.66	5.73	87.2	85.4	7.8	32.1	5.2	5.1		12.0	
292	WWFCZ2	S	MID-FLOOD	10-Nov-06	11:03	35.30	25.8	5.99	5.93	5.87	91.0	87.6	7.8	31.7	3.9	3.8	4.4	10.0	9.7
293	WWFCZ2	M	MID-FLOOD	10-Nov-06			25.8	5.86	5.71		88.2	85.7	7.8	31.9	5.2	5.0			
294	WWFCZ2	B	MID-FLOOD	10-Nov-06			25.8	5.83	5.64	5.74	87.4	85.0	7.8	32.1	4.3	4.3		9.0	
295	WFCZR1	S	MID-FLOOD	10-Nov-06	10:40	41.80	25.7	5.96	5.83	5.81	90.2	87.6	7.6	32.1	6.3	6.2	6.1	9.5	9.5
296	WFCZR1	M	MID-FLOOD	10-Nov-06			25.8	5.80	5.64		87.9	85.1	7.6	32.3	6.3	6.2			
297	WFCZR1	B	MID-FLOOD	10-Nov-06			25.7	5.76	5.58	5.67	89.3	86.7	7.6	32.4	6.1	6.0		10.0	
298	WFCZR2	S	MID-FLOOD	10-Nov-06	11:14	41.70	25.6	5.93	5.82	5.77	96.8	90.6	7.8	32.3	4.0	3.9	4.5	5.5	8.0
299	WFCZR2	M	MID-FLOOD	10-Nov-06			25.7	5.73	5.58		87.3	85.7	7.8	32.3	4.9	4.8			
300	WFCZR2	B	MID-FLOOD	10-Nov-06			25.6	5.67	5.54	5.61	88.9	84.4	7.8	31.8	4.9	4.9		10.5	
301	WWA1	S	MID-EBB	13-Nov-06	16:23	6.70	24.6	5.97	5.92	5.84	94.0	90.7	8.1	31.3	2.5	2.7	2.1	9.5	6.5
302	WWA1	M	MID-EBB	13-Nov-06			24.8	5.80	5.66		87.6	85.9	8.1	31.1	1.8	1.8			
303	WWA1	B	MID-EBB	13-Nov-06			24.7	5.71	5.50	5.61	86.0	82.9	8.1	31.3	1.9	1.8		10.0	
304	WWA2	S	MID-EBB	13-Nov-06	16:34	7.10	24.8	5.90	5.75	5.74	91.7	84.9	8.1	31.4	2.8	2.8	2.6	7.0	6.7
305	WWA2	M	MID-EBB	13-Nov-06			24.9	5.84	5.47		87.6	85.3	8.1	31.3	2.5	2.4			
306	WWA2	B	MID-EBB	13-Nov-06			24.9	5.82	5.60	5.71	87.0	83.6	8.1	31.3	2.7	2.7		5.0	
307	WWA3	S	MID-EBB	13-Nov-06	16:45	6.50	24.7	5.96	5.90	5.86	93.9	88.9	8.1	31.2	3.5	3.5	2.9	6.5	8.8
308	WWA3	M	MID-EBB	13-Nov-06			24.9	5.87	5.70		88.2	84.7	8.1	31.2	2.6	2.8			
309	WWA3	B	MID-EBB	13-Nov-06			24.8	5.69	5.52	5.61	86.9	84.7	8.1	31.3	2.5	2.5		9.0	

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HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau – Environmental Monitoring & Audit Service
 Marine Water Quality Impact Monitoring - November 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO % saturation (1)	DO % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
310	WRA1	S	MID-EBB	13-Nov-06	16:13	32.20	24.7	5.94	5.86	5.76	92.2	89.6	8.1	30.9	2.3	2.4	2.1	5.0	5.0
311	WRA1	M	MID-EBB	13-Nov-06			25.0	5.80	5.56		87.0	85.2	8.1	31.5	1.8	1.8			
312	WRA1	B	MID-EBB	13-Nov-06			24.7	5.76	5.60	5.68	86.7	84.1	8.1	31.9	2.2	2.4		5.0	
313	WRA2	S	MID-EBB	13-Nov-06	16:03	29.50	24.8	5.90	5.76	5.76	87.9	85.6	8.1	31.2	1.8	1.8	1.7	5.0	5.0
314	WRA2	M	MID-EBB	13-Nov-06			25.0	5.80	5.59		88.2	86.0	8.1	31.5	1.5	1.5			
315	WRA2	B	MID-EBB	13-Nov-06			24.7	5.71	5.50	5.61	85.6	82.0	8.1	32.1	1.8	1.8		5.0	
316	WRA3	S	MID-EBB	13-Nov-06	15:55	28.20	24.7	5.92	5.80	5.78	84.7	89.9	8.1	31.0	2.2	2.4	1.9	5.0	5.0
317	WRA3	M	MID-EBB	13-Nov-06			24.9	5.84	5.56		87.6	84.6	8.1	31.5	1.6	1.7			
318	WRA3	B	MID-EBB	13-Nov-06			25.0	5.60	5.41	5.51	86.1	84.0	8.1	31.7	1.8	1.8		5.0	
319	WWFCZ1	S	MID-EBB	13-Nov-06	15:24	34.30	24.7	5.90	5.76	5.75	91.9	88.0	8.1	30.8	3.0	2.9	2.8	29.0	15.5
320	WWFCZ1	M	MID-EBB	13-Nov-06			24.7	5.70	5.62		87.6	85.6	8.1	30.7	2.5	2.6			
321	WWFCZ1	B	MID-EBB	13-Nov-06			24.9	5.60	5.47	5.54	86.0	84.2	8.1	31.2	2.9	2.8		10.0	
322	WWFCZ2	S	MID-EBB	13-Nov-06	15:35	34.70	24.6	5.96	5.92	5.84	94.4	90.9	8.1	30.7	3.4	3.5	2.9	12.0	8.7
323	WWFCZ2	M	MID-EBB	13-Nov-06			24.9	5.79	5.70		87.6	86.0	8.1	31.5	2.6	2.7			
324	WWFCZ2	B	MID-EBB	13-Nov-06			24.9	5.67	5.46	5.57	85.0	83.6	8.1	31.5	3.2	2.2		6.5	
325	WFCZR1	S	MID-EBB	13-Nov-06	15:13	40.50	24.1	5.90	5.76	5.74	91.6	89.7	8.1	31.2	2.2	2.5	2.4	5.5	5.5
326	WFCZR1	M	MID-EBB	13-Nov-06			24.8	5.74	5.56		87.0	84.1	8.1	31.4	2.3	2.4			
327	WFCZR1	B	MID-EBB	13-Nov-06			25.2	5.70	5.51	5.61	86.0	82.7	8.1	32.1	2.5	2.5		5.5	
328	WFCZR2	S	MID-EBB	13-Nov-06	15:45	40.30	24.4	5.96	5.91	5.85	88.6	87.0	8.1	31.3	3.4	3.4	3.0	12.0	9.7
329	WFCZR2	M	MID-EBB	13-Nov-06			25.0	5.82	5.70		86.0	84.7	8.1	31.3	2.1	2.3			
330	WFCZR2	B	MID-EBB	13-Nov-06			25.3	5.76	5.56	5.66	86.1	82.2	8.1	32.0	3.3	3.5		6.5	
331	WWA1	S	MID-FLOOD	13-Nov-06	11:10	7.20	25.4	5.92	5.80	5.76	93.6	9							

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Marine Water Quality Impact Monitoring - November 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
354	WWFCZ2	B	MID-FLOOD	13-Nov-06			25.9	5.61	5.44	5.53	85.0	81.0	8.1	32.0	2.7	2.6	2.9	11.5	12.0
355	WFCZR1	S	MID-FLOOD	13-Nov-06			25.7	5.95	5.85		96.2	91.9	8.1	31.9	2.4	2.6		10.5	
356	WFCZR1	M	MID-FLOOD	13-Nov-06	6.45	41.20	25.6	5.87	5.70	5.84	88.4	85.2	8.1	31.8	2.4	2.4		10.0	
357	WFCZR1	B	MID-FLOOD	13-Nov-06			25.5	5.69	5.46	5.58	87.9	84.2	8.1	32.0	2.3	2.4	2.4	9.0	9.8
358	WFCZR2	S	MID-FLOOD	13-Nov-06			25.8	5.96	5.91		92.4	87.6	8.1	31.4	3.1	3.2		8.5	
359	WFCZR2	M	MID-FLOOD	13-Nov-06	10.24	41.70	25.8	5.84	5.70	5.85	87.2	84.6	8.1	32.1	3.1	3.2		8.5	
360	WFCZR2	B	MID-FLOOD	13-Nov-06			25.8	5.71	5.60	5.66	86.5	83.5	8.1	32.0	2.8	2.8	3.0	15.0	10.0
361	WWA1	S	MID-EBB	15-Nov-06			25.2	5.90	5.87		96.3	91.0	8.4	32.0	2.7	2.7		8.5	
362	WWA1	M	MID-EBB	15-Nov-06	11:27	6.50	25.0	5.92	5.90	5.90	89.3	87.6	8.4	32.1	2.4	2.6		11.5	
363	WWA1	B	MID-EBB	15-Nov-06			25.0	5.86	5.58	5.72	89.8	86.2	8.4	32.2	2.8	2.7	2.6	6.0	8.7
364	WWA2	S	MID-EBB	15-Nov-06			25.2	5.94	5.80		90.4	87.7	8.4	32.2	2.8	2.7		6.5	
365	WWA2	M	MID-EBB	15-Nov-06	11:36	8.80	25.1	5.87	5.63	5.81	89.0	84.8	8.4	32.1	2.7	2.7		5.5	
366	WWA2	B	MID-EBB	15-Nov-06			25.1	5.90	5.69	5.80	86.4	81.8	8.4	32.1	2.4	2.4	2.6	9.5	7.2
367	WWA3	S	MID-EBB	15-Nov-06			25.1	5.97	5.84		92.2	89.6	8.4	32.3	3.2	3.3		7.5	
368	WWA3	M	MID-EBB	15-Nov-06	11:45	6.30	25.2	5.89	5.74	5.86	88.9	85.2	8.4	32.0	2.4	2.4		7.5	
369	WWA3	B	MID-EBB	15-Nov-06			25.0	5.91	5.84	5.88	87.6	83.9	8.4	32.0	2.8	2.8	2.8	10.5	6.5
370	WRA1	S	MID-EBB	15-Nov-06			25.0	5.97	5.86		88.3	85.3	8.5	31.8	2.9	2.8		5.0	
371	WRA1	M	MID-EBB	15-Nov-06	11:18	31.90	25.0	6.04	5.93	5.95	93.4	90.3	8.5	31.8	2.3	2.4		6.0	
372	WRA1	B	MID-EBB	15-Nov-06			25.0	5.87	5.80	5.74	90.0	89.7	8.5	32.1	1.0	1.3	2.1	6.0	5.7
373	WRA2	S	MID-EBB	15-Nov-06			25.0	5.92	5.80		96.5	94.0	8.5	31.9	1.9	2.3		13.5	
374	WRA2	M	MID-EBB	15-Nov-06	11:08	28.70	24.8	5.96	5.84	5.88	91.4	87.4	8.5	32.2	1.4	1.5		5.0	
375	WRA2	B	MID-EBB	15-Nov-06			24.8	6.11	5.95	6.03	93.8	96.8	8.5	32.6	1.6	1.5	1.7	5.0	7.8
376	WRA3	S	MID-EBB	15-Nov-06			24.3	5.86	5.76		95.6	92.7	8.5	31.9	2.1	2.2		5.0	
377	WRA3	M	MID-EBB	15-Nov-06	10:54	27.90	24.7	5.79	5.68	5.80	92.0	96.5	8.5	32.2	1.8	1.8		5.5	
378	WRA3	B	MID-EBB	15-Nov-06			25.2	5.78	5.62	5.70	90.1	82.6	8.5	32.3	1.3	1.8	1.8	5.5	5.3
379	WWFCZ1	S	MID-EBB	15-Nov-06			24.6	6.01	5.89		97.1	94.2	8.5	32.0	2.2	2.3		8.5	
380	WWFCZ1	M	MID-EBB	15-Nov-06	10:33	34.10	24.9	5.77	5.67	5.84	94.0	91.3	8.5	32.2	2.0	2.1		6.0	
381	WWFCZ1	B	MID-EBB	15-Nov-06			24.9	6.13	6.05	6.09	89.9	88.0	8.5	31.9	1.9	1.7	2.1	5.5	6.7
382	WWFCZ2	S	MID-EBB	15-Nov-06			25.2	6.09	5.96		97.6	87.6	8.4	32.1	2.5	2.7		6.5	
383	WWFCZ2	M	MID-EBB	15-Nov-06	10:21	35.20	25.2	5.92	5.71	5.92	90.9	86.7	8.4	32.1	1.5	1.6		6.0	
384	WWFCZ2	B	MID-EBB	15-Nov-06			25.4	5.73	5.66	5.70	87.6	85.6	8.4	32.2	1.7	1.7	1.9	7.0	6.5
385	WFCZR1	S	MID-EBB	15-Nov-06			25.2	5.99	5.87		99.0	89.6	8.4	32.1	1.9	1.8		5.0	
386	WFCZR1	M	MID-EBB	15-Nov-06	10:10	39.70	25.2	5.90	5.82	5.90	94.1	92.3	8.4	32.2	1.5	1.7		7.0	
387	WFCZR1	B	MID-EBB	15-Nov-06			25.4	5.76	5.62	5.69	89.6	86.3	8.4	32.2	1.6	1.6	1.7	10.5	7.5
388	WFCZR2	S	MID-EBB	15-Nov-06			25.0	6.25	6.08		96.7	94.3	8.4	31.8	2.1	2.1		6.0	
389	WFCZR2	M	MID-EBB	15-Nov-06	10:42	40.80	24.7	5.74	5.60	5.92	96.2	92.5	8.4	31.9	1.9	2.0		5.5	
390	WFCZR2	B	MID-EBB	15-Nov-06			25.1	5.90	5.76	5.85	87.9	84.1	8.4	32.1	1.7	1.8	1.9	7.5	6.3
391	WWA1	S	MID-FLOOD	15-Nov-06			24.6	5.92	5.76		93.9	87.6	8.2	32.0	2.0	2.1		9.0	
392	WWA1	M	MID-FLOOD	15-Nov-06	16:44	6.70	24.7	5.84	5.66	5.80	89.7	85.6	8.2	31.8	1.8	2.0		11.0	
393	WWA1	B	MID-FLOOD	15-Nov-06			24.6	5.91	5.83	5.87	89.1	87.0	8.2	31.6	2.4	2.6	2.1	7.0	9.0
394	WWA2	S	MID-FLOOD	15-Nov-06			24.9	5.96	5.76		96.3	90.7	8.2	31.1	2.1	2.3		5.5	
395	WWA2	M	MID-FLOOD	15-Nov-06	16:53	7.30	25.0	5.87	5.75	5.84	86.5	84.1	8.2	30.6	3.0	3.1		5.0	
396	WWA2	B	MID-FLOOD	15-Nov-06			25.0	5.93	5.70	5.82	88.0	85.3	8.2	30.8	3.1	2.9	2.8	5.5	5.3
397	WWA3	S	MID-FLOOD	15-Nov-06			24.7	5.90	5.75		92.8	86.6	8.2	31.0	2.8	2.5		8.0	

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Marine Water Quality Impact Monitoring - November 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
398	WWA3	M	MID-FLOOD	15-Nov-06	17:04	6.50	24.7	5.82	5.63	5.78	86.1	84.5	8.2	30.7	2.1	2.3		9.0	
399	WWA3	B	MID-FLOOD	15-Nov-06			24.7	5.87	5.70	5.79	89.9	87.0	8.2	30.8	2.4	2.7	2.5	6.5	7.8
400	WRA1	S	MID-FLOOD	15-Nov-06			24.5	5.96	5.90		94.8	89.1	8.1	31.0	3.2	3.2		6.0	
401	WRA1	M	MID-FLOOD	15-Nov-06	16:35	32.40	24.4	5.94	5.76	5.89	91.9	87.7	8.1	31.0	2.8	2.8		5.5	
402	WRA1	B	MID-FLOOD	15-Nov-06			24.4	5.75	5.50	5.63	89.5	84.3	8.1	31.0	2.0	1.9	2.6	6.5	6.7
403	WRA2	S	MID-FLOOD	15-Nov-06			25.6	5.98	5.86		90.0	85.9	8.1	30.7	2.1	2.0		9.5	
404	WRA2	M	MID-FLOOD	15-Nov-06	16:27	29.30	25.7	5.84	5.81	5.87	88.4	87.0	8.1	30.7	2.6	2.5		7.0	
405	WRA2	B	MID-FLOOD	15-Nov-06			25.6	5.90	5.73	5.82	86.6	84.1	8.1	30.8	1.8	1.8	2.1	9.0	8.5
406	WRA3	S	MID-FLOOD	15-Nov-06			25.6	5.94	5.81		88.1	85.6	8.1	30.6	2.2	2.1		6.5	
407	WRA3	M	MID-FLOOD	15-Nov-06	16:18	28.60	25.8	5.76	5.58	5.77	87.9	84.1	8.1	30.8	2.9	2.8		11.5	
408	WRA3	B	MID-FLOOD	15-Nov-06			25.8	5.87	5.60	5.74	89.0	85.2	8.1	30.8	2.3	2.8	2.5	9.0	9.0
409	WWFCZ1	S	MID-FLOOD	15-Nov-06			24.9	5.95	5.82		92.7	87.6	8.2	30.2	2.8	2.6		9.0	
410	WWFCZ1	M	MID-FLOOD	15-Nov-06	15:56	33.90	24.7	5.87	5.69	5.86	89.1	85.4	8.2	30.4	2.5	2.2		7.0	
411	WWFCZ1	B	MID-FLOOD	15-Nov-06			24.7	5.90	5.76	5.83	89.9	85.1	8.2	30.3	2.1	2.0	2.4	6.5	7.5
412	WWFCZ2	S	MID-FLOOD	15-Nov-06			24.6	5.84	5.76		96.0	89.7	8.2	30.2	2.1	2.2		7.5	
413	WWFCZ2	M	MID-FLOOD	15-Nov-06	15:46	36.10	24.6	5.96	5.82	5.85	87.0	85.7	8.1	30.2	1.6	1.5		8.5	
414	WWFCZ2	B	MID-FLOOD	15-Nov-06			24.6	5.60	5.43	5.52	87.9	83.5	8.1	30.2	1.6	1.7	1.8	5.0	7.0
415	WFCZR1	S	MID-FLOOD	15-Nov-06			24.9	5.87	5.81		93.0	88.5	8.2	30.8	2.9	2.7		6.0	
416	WFCZR1	M	MID-FLOOD	15-Nov-06	15:36	40.80	24.7	5.93	5.82	5.66	86.9	85.2	8.1	30.8	2.0	1.6		6.0	
417	WFCZR1	B	MID-FLOOD	15-Nov-06			24.8	5.76	5.53	5.65	87.4	84.3	8.2	30.7	1.4	1.8	2.1	7.0	6.3
418	WFCZR2	S	MID-FLOOD	15-Nov-06			24.7	5.94	5.80		96.2	91.0	8.2	30.9	2.9	3.1		6.0	
419	WFCZR2	M	MID-FLOOD	15-Nov-06	16:08	41.50	24.8	5.76	5.54	5.76	89.1	85.7	8.2	31.1	1.9	1.9		6.0	
420	WFCZR2	B	MID-FLOOD	15-Nov-06			24.7	5.83	5.49	5.66	87.3	83.2	8.2	31.0	1.5	1.7	2.2	5.5	5.8
421	WWA1	S	MID-EBB	17-Nov-06			25.8	5.89	5.72		89.3	87.6	8.4	32.1	1.6	1.7		6.0	
422	WWA1	M	MID-EBB	17-Nov-06	12:24	6.70	25.7	5.86	5.67	5.78	86.4	85.1	8.4	32.2	1.8	2.0		11.0	
423	WWA1	B	MID-EBB	17-Nov-06			25.7	5.94	5.80	5.87	89.9	86.5	8.4	32.2	5.1	4.9	2.9	5.5	9.5
424	WWA2	S	MID-EBB	17-Nov-06			25.7	6.01	5.84		88.4	87.1	8.4	32.3	3.0	2.8		7.5	
425	WWA2	M	MID-EBB	17-Nov-06	12:36	6.60	25.8	5.94	5.80	5.90	87.9	85.2							

HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau – Environmental Monitoring & Audit Service
 Marine Water Quality Impact Monitoring - November 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
442	WWFCZ2	S	MID-EBB	17-Nov-06	11:39	35.60	25.3	5.98	5.81	5.85	93.9	90.6	8.5	32.3	2.3	2.4	2.1	6.0	5.7
443	WWFCZ2	M	MID-EBB	17-Nov-06			25.3	5.89	5.74		87.9	85.2	8.5	32.3	1.9	1.9		5.5	
444	WWFCZ2	B	MID-EBB	17-Nov-06			25.4	5.91	5.77		89.3	86.5	8.5	32.4	2.1	2.1		5.5	
445	WFCZR1	S	MID-EBB	17-Nov-06	11:16	40.20	25.4	5.93	5.80	5.83	91.5	87.9	8.5	32.3	1.6	1.7	2.2	6.0	5.3
446	WFCZR1	M	MID-EBB	17-Nov-06			25.2	5.86	5.71		87.0	84.9	8.5	31.7	1.9	1.8		5.0	
447	WFCZR1	B	MID-EBB	17-Nov-06			25.3	5.75	5.59		86.7	85.6	8.5	32.3	3.0	2.9		6.0	
448	WFCZR2	S	MID-EBB	17-Nov-06	11:42	41.30	25.2	5.99	5.84	5.89	96.4	90.2	8.5	32.2	2.2	2.4	2.2	6.0	5.8
449	WFCZR2	M	MID-EBB	17-Nov-06			25.3	5.94	5.80		89.3	87.7	8.5	32.3	1.9	1.8		6.0	
450	WFCZR2	B	MID-EBB	17-Nov-06			25.3	6.03	5.89		88.6	85.0	8.5	32.4	2.4	2.4		5.5	
451	WWA1	S	MID-FLOOD	17-Nov-06	17:59	6.90	25.7	5.95	5.90	5.80	97.0	92.3	8.5	31.9	1.7	1.8	2.0	14.0	19.0
452	WWA1	M	MID-FLOOD	17-Nov-06			25.5	5.70	5.62		87.6	85.9	8.5	32.0	1.9	2.0		15.5	
453	WWA1	B	MID-FLOOD	17-Nov-06			25.4	5.93	5.76		89.4	86.6	8.5	32.0	2.1	2.2		27.5	
454	WWA2	S	MID-FLOOD	17-Nov-06	18:13	6.70	25.5	5.92	5.84	5.84	92.0	90.5	8.5	31.9	3.2	3.2	2.6	8.0	7.3
455	WWA2	M	MID-FLOOD	17-Nov-06			25.5	5.86	5.74		86.9	85.2	8.5	31.7	2.2	2.2		6.0	
456	WWA2	B	MID-FLOOD	17-Nov-06			25.4	5.90	5.73		86.6	86.3	8.5	31.8	2.3	2.3		8.0	
457	WWA3	S	MID-FLOOD	17-Nov-06	18:24	6.80	25.3	5.94	5.75	5.82	93.4	92.1	8.5	31.9	2.7	2.8	2.7	8.5	6.8
458	WWA3	M	MID-FLOOD	17-Nov-06			25.5	5.87	5.71		86.9	86.0	8.5	31.8	2.4	2.5		5.5	
459	WWA3	B	MID-FLOOD	17-Nov-06			25.4	5.80	5.52		87.6	85.8	8.5	32.0	2.9	2.7		6.5	
460	WRA1	S	MID-FLOOD	17-Nov-06	17:49	31.20	25.6	5.96	5.90	5.87	93.5	90.0	8.6	31.7	2.5	2.6	2.3	8.5	9.0
461	WRA1	M	MID-FLOOD	17-Nov-06			25.5	5.87	5.74		89.3	86.9	8.6	32.0	1.9	1.9		12.5	
462	WRA1	B	MID-FLOOD	17-Nov-06			25.3	5.80	5.63		87.0	84.2	8.6	32.0	2.5	2.5		6.0	
463	WRA2	S	MID-FLOOD	17-Nov-06	17:39	28.30	25.5	5.90	5.84	5.85	91.4	87.9	8.6	31.7	1.9	1.8	2.2	14.5	11.5
464	WRA2	M	MID-FLOOD	17-Nov-06			25.4	5.94	5.72		89.5	86.2	8.6	31.7	3.2	3.2		13.0	
465	WRA2	B	MID-FLOOD	17-Nov-06			25.4	5.87	5.65		87.0	84.8	8.6	31.4	1.5	1.5		7.0	
466	WRA3	S	MID-FLOOD	17-Nov-06	17:24	27.20	25.5	5.99	5.88	5.78	92.0	89.9	8.6	31.8	1.5	1.7	2.1	8.5	8.7
467	WRA3	M	MID-FLOOD	17-Nov-06			25.4	5.89	5.74		88.3	84.9	8.6	31.8	2.2	2.3		8.0	
468	WRA3	B	MID-FLOOD	17-Nov-06			25.5	5.87	5.69		88.2	87.0	8.6	31.8	2.5	2.6		9.5	
469	WWFCZ1	S	MID-FLOOD	17-Nov-06	16:42	33.90	25.7	5.96	5.84	5.83	95.7	91.6	8.6	31.7	2.1	2.2	2.3	6.0	6.3
470	WWFCZ1	M	MID-FLOOD	17-Nov-06			25.6	5.82	5.71		90.9	87.2	8.6	31.9	2.3	2.4		5.0	
471	WWFCZ1	B	MID-FLOOD	17-Nov-06			25.5	5.80	5.59		89.0	86.4	8.6	32.0	2.5	2.4		8.0	
472	WWFCZ2	S	MID-FLOOD	17-Nov-06	17:03	36.10	25.5	5.92	5.80	5.83	92.9	87.9	8.5	31.2	2.5	2.5	2.3	6.5	6.7
473	WWFCZ2	M	MID-FLOOD	17-Nov-06			25.6	5.84	5.74		89.4	86.3	8.5	31.9	2.1	2.1		6.5	
474	WWFCZ2	B	MID-FLOOD	17-Nov-06			25.4	5.70	5.56		89.0	87.1	8.5	31.8	2.2	2.4		7.0	
475	WFCZR1	S	MID-FLOOD	17-Nov-06	16:52	40.70	25.7	5.97	5.90	5.86	92.2	89.4	8.5	31.8	1.9	1.8	2.2	16.5	14.5
476	WFCZR1	M	MID-FLOOD	17-Nov-06			25.6	5.84	5.72		90.8	87.6	8.5	32.0	2.2	2.1		13.0	
477	WFCZR1	B	MID-FLOOD	17-Nov-06			25.6	5.86	5.69		88.7	86.5	8.5	32.1	2.5	2.5		14.0	
478	WFCZR2	S	MID-FLOOD	17-Nov-06	17:13	41.60	25.3	6.04	5.82	5.81	97.6	88.4	8.5	32.0	2.3	2.4	2.5	6.5	7.0
479	WFCZR2	M	MID-FLOOD	17-Nov-06			25.4	5.90	5.74		89.5	86.3	8.5	32.0	2.5	2.6		5.0	
480	WFCZR2	B	MID-FLOOD	17-Nov-06			25.4	5.86	5.76		94.2	89.9	8.5	32.1	2.5	2.5		9.5	
481	WWA1	S	MID-EBB	20-Nov-06	14:04	6.50	25.6	5.97	5.85	5.86	92.0	87.6	8.5	32.0	2.9	2.8	3.0	9.0	7.2
482	WWA1	M	MID-EBB	20-Nov-06			25.6	5.86	5.76		86.3	84.1	8.5	31.9	3.3	3.2		5.0	
483	WWA1	B	MID-EBB	20-Nov-06			25.5	5.80	5.55		84.3	83.9	8.5	32.0	2.9	2.8		7.5	
484	WWA2	S	MID-EBB	20-Nov-06	13:54	6.80	25.6	5.94	5.81	5.78	99.6	92.6	8.4	31.7	3.5	3.5	2.5	13.5	6.5
485	WWA2	M	MID-EBB	20-Nov-06			25.4	5.74	5.62		87.8	85.7	8.4	32.0	2.5	2.5		8.5	

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HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau – Environmental Monitoring & Audit Service
 Marine Water Quality Impact Monitoring - November 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp, °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
486	WWA2	B	MID-EBB	20-Nov-06	13:45	6.60	25.4	5.80	5.69	5.75	87.1	83.9	8.4	32.0	2.5	2.5	2.6	6.5	9.5
487	WWA3	S	MID-EBB	20-Nov-06			25.4	5.95	5.82		92.9	89.2	8.4	32.2	3.1	3.1		10.0	
488	WWA3	M	MID-EBB	20-Nov-06			25.4	5.90	5.76		87.7	84.6	8.4	32.2	2.6	2.5		6.0	
489	WWA3	B	MID-EBB	20-Nov-06	14:14	29.60	25.6	5.84	5.69	5.77	87.3	86.1	8.4	32.1	4.4	4.4	3.4	11.5	9.2
490	WRA1	S	MID-EBB	20-Nov-06			25.4	5.94	5.82		91.9	86.7	8.5	31.8	2.6	2.6		6.5	
491	WRA1	M	MID-EBB	20-Nov-06			25.4	5.84	5.77		87.0	84.5	8.5	32.0	2.5	2.4		6.0	
492	WRA1	B	MID-EBB	20-Nov-06	14:24	27.00	25.4	5.72	5.60	5.66	86.9	85.2	8.5	32.2	3.0	3.1	2.7	13.5	8.7
493	WRA2	S	MID-EBB	20-Nov-06			25.5	5.90	5.86		90.3	89.1	8.5	31.7	2.1	2.1		9.0	
494	WRA2	M	MID-EBB	20-Nov-06			25.2	5.81	5.63		88.0	86.3	8.5	32.1	2.1	2.3		6.5	
495	WRA2	B	MID-EBB	20-Nov-06	14:33	26.40	25.3	5.70	5.46	5.58	84.9	83.5	8.5	32.2	2.9	2.8	2.4	11.0	8.8
496	WRA3	S	MID-EBB	20-Nov-06			25.7	5.92	5.82		88.4	86.7	8.5	31.5	2.8	2.8		6.5	
497	WRA3	M	MID-EBB	20-Nov-06			25.5	5.85	5.76		87.6	84.9	8.5	32.0	2.8	2.7		10.5	
498	WRA3	B	MID-EBB	20-Nov-06	15:04	33.00	25.5	5.72	5.54	5.63	87.9	84.5	8.5	32.2	2.5	2.6	2.7	7.0	8.0
499	WWFCZ1	S	MID-EBB	20-Nov-06			25.5	5.96	5.90		92.9	88.3	8.5	31.6	2.8	2.8		6.0	
500	WWFCZ1	M	MID-EBB	20-Nov-06			25.4	5.82	5.66		87.0	85.6	8.5	31.9	2.9	2.7		5.5	
501	WWFCZ1	B	MID-EBB	20-Nov-06	14:53	34.20	25.2	5.70	5.51	5.61	84.9	85.5	8.5	32.3	2.6	2.7	2.7	5.0	5.5
502	WWFCZ2	S	MID-EBB	20-Nov-06			25.6	5.95	5.82		90.8	87.3	8.5	31.5	2.4	2.5		17.5	
503	WWFCZ2	M	MID-EBB	20-Nov-06			25.4	5.76	5.65		88.4	87.0	8.5	31.9	3.1	3.2		17.5	
504	WWFCZ2	B	MID-EBB	20-Nov-06	15:16	40.30	25.3	5.50	5.46	5.46	87.2	85.6	8.5	32.0	2.7	2.7	2.8	14.0	16.3
505	WFCZR1	S	MID-EBB	20-Nov-06			25.3	5.92	5.80		92.9	86.9	8.4	32.0	3.4	3.5		12.0	
506	WFCZR1	M	MID-EBB	20-Nov-06			25.3	5.70	5.57		87.8	85.6	8.4	32.0	2.7	2.7		7.5	
507	WFCZR1	B	MID-EBB	20-Nov-06	14:43	40.70	25.2	5.74	5.52	5.63	86.2	84.4	8.4	32.1	3.7	3.8	3.3	15.0	11.5
508	WFCZR2	S	MID-EBB	20-Nov-06			25.6	5.92	5.76		92.2	90.6	8.5	31.4	3.3	3.4		14.0	
509	WFCZR2	M	MID-EBB	20-Nov-06			25.5	5.71	5.60		88.6	86.4	8.5</						

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Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
530	WWFCZ1	M	MID-FLOOD	20-Nov-06	10:07	33.30	25.4	5.84	5.76	5.84	87.6	84.9	8.5	32.4	2.8	2.7		6.0	
531	WWFCZ1	B	MID-FLOOD	20-Nov-06			25.4	5.76	5.50	5.65	89.0	86.0	8.5	32.4	2.6	2.2	2.6	9.0	7.3
532	WWFCZ2	S	MID-FLOOD	20-Nov-06			25.3	5.87	5.69		92.3	90.0	8.5	32.0	2.6	2.5		7.0	
533	WWFCZ2	M	MID-FLOOD	20-Nov-06	10:17	35.50	25.3	5.92	5.80	5.82	87.6	85.4	8.5	32.3	2.6	2.7		7.5	
534	WWFCZ2	B	MID-FLOOD	20-Nov-06			25.3	5.76	5.60	5.68	89.8	86.5	8.5	32.3	2.6	2.6	2.6	6.0	7.5
535	WFCZR1	S	MID-FLOOD	20-Nov-06			25.1	5.94	5.80		86.6	87.6	8.5	32.3	2.7	2.7		14.0	
536	WFCZR1	M	MID-FLOOD	20-Nov-06	9:57	39.40	25.1	5.74	5.69	5.79	87.2	85.0	8.5	32.5	2.2	2.3		16.0	
537	WFCZR1	B	MID-FLOOD	20-Nov-06			25.1	5.90	5.62	5.76	89.4	86.2	8.4	32.5	2.8	2.5	2.5	13.0	14.3
538	WFCZR2	S	MID-FLOOD	20-Nov-06			25.3	5.90	5.78		95.2	90.7	8.5	31.8	2.4	2.1		6.0	
539	WFCZR2	M	MID-FLOOD	20-Nov-06	10:26	40.40	25.3	5.82	5.60	5.77	88.6	87.3	8.5	32.3	2.2	2.1		6.5	
540	WFCZR2	B	MID-FLOOD	20-Nov-06			25.2	5.63	5.49	5.56	87.9	86.5	8.5	32.3	2.7	2.6	2.3	7.5	6.7
541	WWA1	S	MID-EBB	22-Nov-06			24.8	5.82	5.80		93.0	88.0	8.4	32.0	4.2	4.2		6.5	
542	WWA1	M	MID-EBB	22-Nov-06	15:04	8.80	24.8	5.84	5.76	5.83	86.4	86.2	8.4	32.1	4.6	4.4		12.5	
543	WWA1	B	MID-EBB	22-Nov-06			24.9	5.77	5.63	5.70	87.0	84.8	8.4	31.9	3.3	3.4	4.0	9.5	9.5
544	WWA2	S	MID-EBB	22-Nov-06			25.1	5.91	5.86		93.0	89.4	8.4	32.1	2.7	2.7		7.5	
545	WWA2	M	MID-EBB	22-Nov-06	14:55	6.70	25.0	5.76	5.65	5.80	88.6	85.2	8.4	31.3	3.9	3.8		9.0	
546	WWA2	B	MID-EBB	22-Nov-06			25.0	5.80	5.74	5.77	87.3	84.9	8.4	32.1	5.1	5.2	3.9	8.5	8.3
547	WWA3	S	MID-EBB	22-Nov-06			24.8	5.93	5.87		92.2	90.7	8.4	32.1	3.5	3.5		8.0	
548	WWA3	M	MID-EBB	22-Nov-06	14:46	6.70	25.0	5.84	5.70	5.84	88.1	86.3	8.4	32.1	3.5	3.3		11.0	
549	WWA3	B	MID-EBB	22-Nov-06			25.0	5.62	5.55	5.62	87.5	83.9	8.4	32.1	6.4	6.3	4.4	18.0	12.3
550	WRA1	S	MID-EBB	22-Nov-06			24.8	5.96	5.90		89.9	88.2	8.4	31.5	4.4	4.5		8.0	
551	WRA1	M	MID-EBB	22-Nov-06	15:14	30.00	24.8	5.84	5.73	5.86	87.4	84.6	8.4	32.0	4.3	4.4		12.0	
552	WRA1	B	MID-EBB	22-Nov-06			24.9	5.68	5.54	5.61	87.6	84.3	8.4	32.0	4.7	4.6	4.5	7.0	9.0
553	WRA2	S	MID-EBB	22-Nov-06			25.0	5.99	5.86		92.2	88.6	8.4	31.6	3.7	3.7		5.5	
554	WRA2	M	MID-EBB	22-Nov-06	15:24	27.30	24.9	5.82	5.68	5.84	90.0	87.5	8.4	31.9	5.1	5.1		8.0	
555	WRA2	B	MID-EBB	22-Nov-06			25.0	5.60	5.50	5.55	87.6	85.0	8.4	31.4	3.2	3.3	4.0	10.5	8.0
556	WRA3	S	MID-EBB	22-Nov-06			25.1	5.92	5.86		90.8	86.7	8.4	31.8	3.6	3.8		6.5	
557	WRA3	M	MID-EBB	22-Nov-06	15:34	26.80	25.0	5.82	5.68	5.82	85.6	84.1	8.4	30.8	4.7	4.7		9.5	
558	WRA3	B	MID-EBB	22-Nov-06			24.9	5.70	5.50	5.60	87.0	85.6	8.4	31.9	3.8	3.8	4.1	13.0	9.7
559	WWFCZ1	S	MID-EBB	22-Nov-06			25.0	5.95	5.84		92.2	87.8	8.4	32.0	3.2	3.2		5.0	
560	WWFCZ1	M	MID-EBB	22-Nov-06	16:04	32.50	24.9	5.86	5.71	5.84	88.6	84.7	8.4	31.8	3.3	3.3		5.0	
561	WWFCZ1	B	MID-EBB	22-Nov-06			24.9	5.66	5.58	5.62	86.3	84.1	8.4	32.1	5.4	5.3	3.9	5.5	5.2
562	WWFCZ2	S	MID-EBB	22-Nov-06			24.9	5.93	5.80		95.5	90.6	8.4	31.9	3.2	3.2		10.5	
563	WWFCZ2	M	MID-EBB	22-Nov-06	15:54	33.60	24.9	5.85	5.74	5.83	86.5	84.2	8.4	31.9	3.7	3.6		9.5	
564	WWFCZ2	B	MID-EBB	22-Nov-06			24.9	5.76	5.61	5.69	85.6	84.0	8.4	32.0	3.8	3.7	3.5	17.5	12.5
565	WFCZR1	S	MID-EBB	22-Nov-06			24.9	5.96	5.92		89.1	87.3	8.4	32.1	3.7	3.7		10.0	
566	WFCZR1	M	MID-EBB	22-Nov-06	16:15	41.10	25.0	5.87	5.78	5.88	87.8	85.6	8.4	30.9	4.1	3.8		7.5	
567	WFCZR1	B	MID-EBB	22-Nov-06			24.9	5.90	5.73	5.82	86.5	84.9	8.4	31.8	3.8	3.6	3.8	8.5	8.7
568	WFCZR2	S	MID-EBB	22-Nov-06			25.0	5.99	5.90		92.2	88.9	8.4	31.6	3.5	3.5		5.0	
569	WFCZR2	M	MID-EBB	22-Nov-06	15:44	40.30	24.9	5.86	5.70	5.86	89.2	87.3	8.4	32.0	3.2	3.5		5.0	
570	WFCZR2	B	MID-EBB	22-Nov-06			24.9	5.79	5.64	5.72	87.0	84.6	8.4	31.9	3.6	3.7	3.5	5.0	5.0
571	WWA1	S	MID-FLOOD	22-Nov-06			24.7	5.96	5.92		90.6	87.9	8.0	32.1	3.6	3.5		6.0	
572	WWA1	M	MID-FLOOD	22-Nov-06	11:18	6.80	24.6	5.86	5.75	5.87	88.0	86.5	8.0	32.2	4.2	4.4		13.5	
573	WWA1	B	MID-FLOOD	22-Nov-06			24.4	5.80	5.62	5.71	88.2	86.6	8.0	32.1	3.3	3.3	3.7	12.5	10.7

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 Marine Water Quality Impact Monitoring - November 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
574	WWA2	S	MID-FLOOD	22-Nov-06			24.6	5.91	5.84		92.9	88.9	8.0	32.2	2.8	2.7		5.5	
575	WWA2	M	MID-FLOOD	22-Nov-06	11:27	7.00	24.7	5.86	5.76	5.84	87.0	86.5	8.0	32.2	2.5	2.7		10.5	
576	WWA2	B	MID-FLOOD	22-Nov-06			24.8	5.82	5.59	5.71	87.4	84.6	8.0	32.3	4.2	4.1	3.2	8.0	8.0
577	WWA3	S	MID-FLOOD	22-Nov-06			24.7	5.94	5.82		94.9	92.0	8.0	32.1	3.3	3.3		5.5	
578	WWA3	M	MID-FLOOD	22-Nov-06	11:36	6.90	24.9	5.84	5.76	5.84	86.9	85.7	8.0	32.2	3.4	3.5		8.0	
579	WWA3	B	MID-FLOOD	22-Nov-06			24.5	5.60	5.52	5.56	87.6	85.4	8.0	31.6	5.2	5.0	4.0	9.0	7.5
580	WRA1	S	MID-FLOOD	22-Nov-06			24.8	5.96	5.92		93.6	89.7	8.0	32.0	4.3	4.4		5.5	
581	WRA1	M	MID-FLOOD	22-Nov-06	11:09	29.90	24.8	5.84	5.76	5.87	86.9	84.9	8.0	32.4	4.2	4.1		7.0	
582	WRA1	B	MID-FLOOD	22-Nov-06			24.9	5.65	5.52	5.59	86.4	84.1	8.0	30.4	4.1	4.2	4.2	9.5	7.3
583	WRA2	S	MID-FLOOD	22-Nov-06			24.8	5.92	5.80		90.0	86.5	8.0	32.3	3.8	3.8		10.0	
584	WRA2	M	MID-FLOOD	22-Nov-06	10:58	28.10	24.8	5.76	5.61	5.77	87.9	85.6	8.0	32.2	3.9	3.9		7.5	
585	WRA2	B	MID-FLOOD	22-Nov-06			24.9	5.99	5.41	5.50	86.9	85.3	8.0	32.2	3.2	3.4	3.7	9.0	8.8
586	WRA3	S	MID-FLOOD	22-Nov-06			24.7	5.98	5.94		92.3	89.6	8.0	32.2	3.6	3.7		6.5	
587	WRA3	M	MID-FLOOD	22-Nov-06	10:48	27.00	24.6	5.87	5.74	5.88	88.4	86.5	8.0	32.5	3.9	3.9		10.0	
588	WRA3	B	MID-FLOOD	22-Nov-06			24.7	5.65	5.51	5.58	86.3	84.9	8.0	32.3	3.3	3.3	3.6	9.0	8.5
589	WWFCZ1	S	MID-FLOOD	22-Nov-06			24.9	5.97	5.91		96.7	89.6	8.0	31.8	3.4	3.5		6.5	
590	WWFCZ1	M	MID-FLOOD	22-Nov-06	10:27	32.60	24.9	5.84	5.67	5.85	89.2	85.6	7.9	32.0	3.3	3.3		7.5	
591	WWFCZ1	B	MID-FLOOD	22-Nov-06			24.9	5.62	5.46	5.54	87.4	84.6	7.9	32.1	4.1	4.2	3.6	12.5	8.8
592	WWFCZ2	S	MID-FLOOD	22-Nov-06			24.9	5.92	5.76		94.5	87.6	7.9	32.3	3.3	3.3		10.0	

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Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH Unit	Salinity ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
618	WRA3	E	MID-EBB	24-Nov-06	15:20	30.90	25.1	5.94	5.91	5.93	89.5	89.2	8.0	30.8	3.2	3.2	3.4	8.0	8.7
619	WWFCZ1	S	MID-EBB	24-Nov-06			25.2	5.76	5.72	5.77	90.7	90.6	8.0	30.5	3.9	3.9		10.5	
620	WWFCZ1	M	MID-EBB	24-Nov-06			25.2	5.81	5.78	5.89	88.3	86.1	8.0	31.3	4.2	4.2	3.9	6.0	7.8
621	WWFCZ1	B	MID-EBB	24-Nov-06	15:33	34.50	25.1	5.92	5.86	5.89	89.4	89.3	8.0	29.8	3.6	3.6		7.0	
622	WWFCZ2	S	MID-EBB	24-Nov-06			25.2	5.97	5.91	5.88	88.6	88.2	8.0	30.5	3.9	3.8		6.5	
623	WWFCZ2	M	MID-EBB	24-Nov-06			25.1	5.88	5.81	5.85	89.4	89.2	8.0	30.7	3.9	3.8	3.8	10.0	8.5
624	WWFCZ2	E	MID-EBB	24-Nov-06	15:09	39.80	25.3	5.93	5.83	5.90	89.5	90.2	8.0	30.6	4.0	4.2		12.0	
625	WFCZR1	S	MID-EBB	24-Nov-06			25.2	5.94	5.91	5.84	88.4	87.8	8.0	30.4	4.2	4.2	4.1	14.5	11.8
626	WFCZR1	M	MID-EBB	24-Nov-06			25.2	5.86	5.81	5.84	91.3	90.5	7.9	31.1	4.1	4.1		13.0	
627	WFCZR1	E	MID-EBB	24-Nov-06	15:45	40.80	25.2	5.93	5.91	5.91	89.6	90.2	7.9	30.9	4.9	4.7		15.5	
628	WFCZR2	S	MID-EBB	24-Nov-06			25.1	5.86	5.81	5.84	89.5	89.3	7.9	30.8	4.1	4.1	4.3	14.5	14.3
629	WFCZR2	M	MID-EBB	24-Nov-06			25.1	5.95	5.83	5.89	91.8	89.3	8.0	31.6	4.1	4.2		9.0	
630	WFCZR2	B	MID-EBB	24-Nov-06	12:07	6.60	25.0	5.79	5.63	5.80	88.8	86.4	8.0	31.6	4.4	4.4		12.5	
631	WWA1	M	MID-FLOOD	24-Nov-06			25.0	5.80	5.64	5.72	86.8	84.6	8.0	32.0	4.5	4.4	4.3	16.5	12.7
632	WWA1	B	MID-FLOOD	24-Nov-06			25.1	5.97	5.91	5.90	92.2	88.1	8.0	31.2	4.2	4.1		10.5	
633	WWA2	M	MID-FLOOD	24-Nov-06	12:18	6.80	25.0	5.86	5.84	5.90	87.6	84.9	8.0	31.3	4.3	4.2		9.0	
634	WWA2	S	MID-FLOOD	24-Nov-06			25.0	5.73	5.58	5.66	86.5	84.5	8.0	32.2	4.3	4.2	4.2	14.0	11.2
635	WWA2	B	MID-FLOOD	24-Nov-06			25.0	5.91	5.82	5.82	89.5	87.7	8.0	31.4	4.7	4.6		9.0	
636	WWA3	S	MID-FLOOD	24-Nov-06	12:30	6.90	25.0	5.86	5.69	5.82	86.3	84.9	8.0	31.4	4.0	3.9		14.5	
637	WWA3	M	MID-FLOOD	24-Nov-06			25.0	5.74	5.60	5.67	85.6	84.1	8.0	32.1	4.3	4.2	4.3	13.0	12.2
638	WWA3	B	MID-FLOOD	24-Nov-06			25.2	5.97	5.86	5.89	89.2	87.6	8.0	32.1	4.7	4.6		7.5	
639	WRA1	S	MID-FLOOD	24-Nov-06	11:53	30.50	25.2	5.90	5.73	5.87	94.3	91.0	8.0	32.1	4.4	4.6		12.5	
640	WRA1	M	MID-FLOOD	24-Nov-06			25.0	5.44	5.40	5.42	88.5	86.0	8.0	32.1	4.3	4.5	4.5	18.5	12.8
641	WRA1	B	MID-FLOOD	24-Nov-06			25.0	5.81	5.66	5.64	86.6	87.2	8.0	31.8	4.5	4.6		8.5	
642	WRA2	S	MID-FLOOD	24-Nov-06	11:40	27.30	25.0	5.59	5.46	5.64	87.8	86.3	8.0	31.8	4.4	4.4		13.5	
643	WRA2	M	MID-FLOOD	24-Nov-06			25.0	5.80	5.63	5.72	85.8	84.3	8.0	32.0	4.2	4.2	4.4	12.0	11.3
644	WRA2	B	MID-FLOOD	24-Nov-06			25.1	5.93	5.71	5.76	92.6	87.6	8.0	31.1	5.1	5.2		5.5	
645	WRA3	S	MID-FLOOD	24-Nov-06	11:29	26.80	25.0	5.82	5.59	5.76	86.3	87.9	8.0	31.0	5.4	5.2		13.0	
646	WRA3	M	MID-FLOOD	24-Nov-06			25.0	5.68	5.57	5.63	89.4	86.5	8.0	31.6	4.9	4.8	5.1	12.5	10.3
647	WRA3	B	MID-FLOOD	24-Nov-06			25.1	5.89	5.72	5.79	91.7	88.2	8.0	31.1	5.3	5.1		13.0	
648	WWFCZ1	S	MID-FLOOD	24-Nov-06	10:53	31.60	25.0	5.84	5.69	5.79	89.0	87.3	8.0	31.1	5.0	4.9		11.5	
649	WWFCZ1	M	MID-FLOOD	24-Nov-06			25.0	5.80	5.73	5.77	88.6	86.1	8.0	32.1	4.4	4.8	4.9	23.5	18.0
650	WWFCZ1	B	MID-FLOOD	24-Nov-06			24.7	5.92	5.83	5.78	90.3	86.7	8.1	31.3	4.9	5.1		20.0	
651	WWFCZ2	S	MID-FLOOD	24-Nov-06	11:04	34.90	24.8	5.73	5.58	5.66	86.6	84.2	8.1	30.9	5.4	5.5	5.1	23.0	22.3
652	WWFCZ2	M	MID-FLOOD	24-Nov-06			24.9	6.04	5.93	5.94	89.7	87.8	8.0	30.9	4.3	4.2		10.5	
653	WWFCZ2	B	MID-FLOOD	24-Nov-06			24.9	5.92	5.86	5.94	89.1	87.2	8.0	30.9	4.1	4.2		17.5	
654	WFCZR1	S	MID-FLOOD	24-Nov-06	10:42	40.30	24.8	5.81	5.70	5.76	87.6	85.7	8.0	31.6	4.6	4.6	4.3	21.5	16.5
655	WFCZR1	M	MID-FLOOD	24-Nov-06			24.8	5.95	5.67	5.85	88.5	87.0	8.0	30.8	4.5	4.4		12.5	
656	WFCZR1	B	MID-FLOOD	24-Nov-06			24.8	5.83	5.73	5.85	89.9	87.8	8.0	31.1	4.8	4.7		14.0	
657	WFCZR2	S	MID-FLOOD	24-Nov-06	11:17	41.50	24.7	5.80	5.64	5.72	85.6	84.3	8.0	32.0	4.6	4.6	4.6	16.5	14.3
658	WFCZR2	M	MID-FLOOD	24-Nov-06			25.0	5.90	5.76	5.83	90.7	87.4	8.0	30.1	6.3	6.3		12.5	
659	WFCZR2	B	MID-FLOOD	24-Nov-06			25.0	5.90	5.76										
660	WFCZR2	E	MID-FLOOD	24-Nov-06															
661	WWA1	S	MID-EBB	27-Nov-06			25.0	5.90	5.76		90.7	87.4	8.0	30.1	6.3	6.3		12.5	

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Marine Water Quality Impact Monitoring - November 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH Unit	Salinity ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
662	WWA1	M	MID-EBB	27-Nov-06	9:30	6.50	25.0	5.72	5.70	5.77	87.2	86.3	8.0	30.2	4.3	4.2		13.0	
663	WWA1	B	MID-EBB	27-Nov-06			25.0	5.61	5.57	5.59	85.9	84.6	8.0	30.2	5.7	5.6	5.4	19.5	15.0
664	WWA2	S	MID-EBB	27-Nov-06			25.1	5.93	5.82	5.82	91.8	87.7	8.0	29.9	5.2	5.2		19.5	
665	WWA2	M	MID-EBB	27-Nov-06	9:18	6.30	25.0	5.80	5.70	5.83	86.5	85.1	8.0	29.5	4.0	4.2		11.5	
666	WWA2	B	MID-EBB	27-Nov-06			25.0	5.79	5.64	5.72	88.6	85.7	8.0	30.2	3.7	3.8	4.3	17.0	16.0
667	WWA3	S	MID-EBB	27-Nov-06			25.1	5.86	5.80	5.75	91.0	87.8	8.0	29.5	3.5	3.6		9.5	
668	WWA3	M	MID-EBB	27-Nov-06	9:00	6.90	25.0	5.77	5.58	5.68	87.4	86.1	8.0	30.3	4.5	4.7		10.5	
669	WWA3	B	MID-EBB	27-Nov-06			25.0	5.61	5.48	5.55	87.8	85.0	8.0	30.6	5.6	5.5	4.6	11.5	10.5
670	WRA1	S	MID-EBB	27-Nov-06			25.0	5.95	5.77	5.76	90.3	87.9	7.9	30.0	2.8	2.6		9.0	
671	WRA1	M	MID-EBB	27-Nov-06	9:44	31.20	25.0	5.72	5.58	5.76	87.4	85.3	7.9	30.2	2.8	2.9		14.0	
672	WRA1	B	MID-EBB	27-Nov-06			24.9	5.64	5.51	5.58	87.9	84.3	7.9	31.2	2.7	2.7	2.7	7.5	10.2
673	WRA2	S	MID-EBB	27-Nov-06			25.0	5.90	5.75	5.72	95.3	92.2	7.9	30.3	4.9	4.8		7.5	
674	WRA2	M	MID-EBB	27-Nov-06	9:58	27.50	25.0	5.82	5.59	5.77	86.3	85.1	7.9	30.5	3.9	3.6		8.5	
675	WRA2	B	MID-EBB	27-Nov-06			24.9	5.67	5.60	5.64	87.6	85.3	7.9	31.1	4.0	4.3	4.3	9.0	8.3
676	WRA3	S	MID-EBB	27-Nov-06			25.0	5.98	5.93	5.86	91.6	86.8	7.9	30.3	3.3	3.4		9.0	
677	WRA3	M	MID-EBB	27-Nov-06	10:10	27.10	25.0	5.80	5.72	5.86	87.4	85.6	7.9	31.0	3.5	3.6		13.0	
678	WRA3	B	MID-EBB	27-Nov-06			25.0	5.65	5.54	5.60	86.7	85.2	7.9	31.4	3.5	3.5	3.5	10.0	10.7
679	WWFCZ1	S	MID-EBB	27-Nov-06			25.0	5.92	5.76	5.78	91.2	87.5	8.0	30.0	3.6	3.7		7.5	
680	WWFCZ1	M	MID-EBB	27-Nov-06	10:50	31.20	25.0	5.80	5.63	5.78	86.4	85.2	8.0	30.2	3.6	3.6		5.0	
681	WWFCZ1	B	MID-EBB	27-Nov-06			25.1	5.70	5.56	5.63	85.6	83.5	8.0	30.6	5.6	5.6	4.3	13.5	8.7
682	WWFCZ2	S	MID-EBB	27-Nov-06			25.1	5.											

HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau – Environmental Monitoring & Audit Service
Marine Water Quality Impact Monitoring - November 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
706	WRA3	S	MID-FLOOD	27-Nov-06	15:39	27.50	24.9	5.61	5.66	5.66	95.0	90.2	8.3	31.9	3.4	3.5	3.5	10.0	11.8
707	WRA3	M	MID-FLOOD	27-Nov-06			24.9	5.61	5.54		87.0	85.1	8.4	31.8	3.6	3.7		15.0	
708	WRA3	B	MID-FLOOD	27-Nov-06			24.8	5.52	5.47		86.4	84.6	8.4	30.9	3.5	3.5		10.5	
709	WWFCZ1	S	MID-FLOOD	27-Nov-06	16:17	32.20	24.8	5.99	5.91	5.89	90.9	87.6	7.9	31.0	3.5	3.5	3.8	8.5	14.0
710	WWFCZ1	M	MID-FLOOD	27-Nov-06			24.7	5.87	5.79		88.3	86.0	7.9	31.9	3.7	3.7		16.5	
711	WWFCZ1	B	MID-FLOOD	27-Nov-06			24.8	5.60	5.46		87.1	85.1	7.9	32.1	4.3	4.2		17.0	
712	WWFCZ2	S	MID-FLOOD	27-Nov-06	18:04	33.80	24.8	5.95	5.82	5.76	90.2	87.0	7.9	31.7	3.4	3.5	3.8	9.0	15.2
713	WWFCZ2	M	MID-FLOOD	27-Nov-06			24.6	5.77	5.56		87.8	85.3	7.9	31.9	3.9	3.8		13.0	
714	WWFCZ2	B	MID-FLOOD	27-Nov-06			24.1	5.53	5.45		89.0	86.4	7.9	32.1	4.1	4.1		23.5	
715	WFCZR1	S	MID-FLOOD	27-Nov-06	16:33	39.60	24.7	5.91	5.78	5.75	91.0	87.4	7.9	32.2	4.3	4.3	4.2	9.0	13.7
716	WFCZR1	M	MID-FLOOD	27-Nov-06			24.8	5.73	5.57		87.1	84.9	7.9	32.2	4.1	4.1		16.5	
717	WFCZR1	B	MID-FLOOD	27-Nov-06			24.9	5.65	5.47		88.4	84.3	7.9	32.2	4.3	4.3		15.5	
718	WFCZR2	S	MID-FLOOD	27-Nov-06	15:53	41.10	24.8	5.91	5.80	5.82	90.8	85.0	7.9	31.9	3.8	3.8	3.4	10.0	13.2
719	WFCZR2	M	MID-FLOOD	27-Nov-06			24.8	5.84	5.72		87.3	85.9	7.9	31.9	3.2	3.2		16.0	
720	WFCZR2	B	MID-FLOOD	27-Nov-06			24.8	5.63	5.51		86.3	84.9	7.9	31.9	3.3	3.2		13.5	
721	WWA1	S	MID-EBB	29-Nov-06	9:24	6.30	23.7	5.90	5.82	5.75	90.5	86.2	8.2	29.3	4.1	4.1	3.5	7.0	7.2
722	WWA1	M	MID-EBB	29-Nov-06			23.6	5.68	5.59		87.6	85.7	8.2	29.4	3.3	3.2		6.5	
723	WWA1	B	MID-EBB	29-Nov-06			23.6	5.62	5.60		86.0	84.1	8.2	29.9	3.2	3.3		8.0	
724	WWA2	S	MID-EBB	29-Nov-06	9:12	6.10	23.8	5.96	5.87	5.88	94.0	90.6	8.2	29.5	3.5	3.6	3.8	5.5	6.2
725	WWA2	M	MID-EBB	29-Nov-06			23.2	5.89	5.80		87.8	85.2	8.2	29.6	3.7	3.7		6.5	
726	WWA2	B	MID-EBB	29-Nov-06			23.7	5.72	5.60		86.4	84.9	8.2	29.7	4.2	4.2		6.5	
727	WWA3	S	MID-EBB	29-Nov-06	9:00	6.70	24.0	5.94	5.84	5.83	98.6	94.5	8.2	29.8	4.0	3.9	3.7	6.0	8.5
728	WWA3	M	MID-EBB	29-Nov-06			23.9	5.80	5.75		90.6	87.6	8.2	29.8	3.5	3.4		10.5	
729	WWA3	B	MID-EBB	29-Nov-06			24.0	5.64	5.56		89.0	86.5	8.2	29.9	3.8	3.9		9.0	
730	WRA1	S	MID-EBB	29-Nov-06	9:37	30.90	23.9	5.92	5.80	5.77	91.8	87.6	8.2	31.9	3.3	3.2	2.9	12.0	10.7
731	WRA1	M	MID-EBB	29-Nov-06			23.9	5.76	5.59		87.1	85.2	8.2	29.7	2.9	2.9		11.0	
732	WRA1	B	MID-EBB	29-Nov-06			23.6	5.60	5.49		86.5	84.1	8.2	30.1	2.6	2.7		9.0	
733	WRA2	S	MID-EBB	29-Nov-06	9:50	27.80	24.2	5.90	5.69	5.71	92.6	88.2	8.2	31.9	2.8	2.8	2.7	9.5	8.3
734	WRA2	M	MID-EBB	29-Nov-06			24.0	5.70	5.56		88.9	85.6	8.2	29.7	2.6	2.5		6.5	
735	WRA2	B	MID-EBB	29-Nov-06			24.1	5.74	5.60		87.0	85.0	8.2	30.2	2.6	2.6		9.0	
736	WRA3	S	MID-EBB	29-Nov-06	10:00	27.50	24.4	5.95	5.80	5.76	90.6	87.2	8.2	32.1	3.1	3.2	3.2	6.5	6.5
737	WRA3	M	MID-EBB	29-Nov-06			24.1	5.71	5.56		87.1	85.6	8.2	30.0	3.2	3.2		5.5	
738	WRA3	B	MID-EBB	29-Nov-06			24.0	5.60	5.56		86.2	83.6	8.2	31.0	3.3	3.4		7.5	
739	WWFCZ1	S	MID-EBB	29-Nov-06	10:44	31.60	24.3	5.90	5.72	5.60	90.9	86.7	8.2	31.1	3.5	3.6	3.2	6.5	6.3
740	WWFCZ1	M	MID-EBB	29-Nov-06			24.1	5.76	5.59		87.3	85.0	8.2	32.0	3.0	2.8		5.0	
741	WWFCZ1	B	MID-EBB	29-Nov-06			24.0	5.63	5.56		86.7	84.0	8.2	30.3	3.0	3.1		7.5	
742	WWFCZ2	S	MID-EBB	29-Nov-06	10:28	33.20	24.3	5.82	5.60	5.66	93.3	87.9	8.2	31.2	3.4	3.5	3.0	9.5	11.0
743	WWFCZ2	M	MID-EBB	29-Nov-06			24.5	5.70	5.53		87.2	85.1	8.2	32.3	2.5	2.5		12.5	
744	WWFCZ2	B	MID-EBB	29-Nov-06			24.2	5.59	5.43		89.0	85.4	8.2	30.1	3.1	3.3		11.0	
745	WFCZR1	S	MID-EBB	29-Nov-06	10:57	38.50	24.0	5.94	5.80	5.80	89.7	86.4	8.2	30.2	3.0	3.1	2.9	5.0	6.7
746	WFCZR1	M	MID-EBB	29-Nov-06			24.3	5.82	5.64		85.6	84.0	8.2	31.8	2.9	2.7		7.5	
747	WFCZR1	B	MID-EBB	29-Nov-06			24.2	5.78	5.53		87.1	85.2	8.2	32.2	2.8	2.8		7.5	
748	WFCZR2	S	MID-EBB	29-Nov-06	10:12	40.60	23.9	5.91	5.80	5.78	90.6	85.9	8.2	29.6	3.0	3.2	3.3	6.0	13.7
749	WFCZR2	M	MID-EBB	29-Nov-06			24.4	5.78	5.62		87.8	87.7	8.2	32.0	3.2	3.3		7.0	

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Marine Water Quality Impact Monitoring - November 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
750	WFCZR2	B	MID-EBB	29-Nov-06	14:24	6.50	24.1	5.78	5.52	5.54	85.6	84.1	8.2	30.2	3.4	3.5	3.3	8.5	7.5
751	WWA1	S	MID-FLOOD	29-Nov-06			24.4	5.98	5.84		91.9	85.5	8.2	31.7	3.2	3.5		7.0	
752	WWA1	M	MID-FLOOD	29-Nov-06			24.3	5.88	5.62		87.3	84.8	8.2	31.9	3.5	3.5		7.0	
753	WWA1	B	MID-FLOOD	29-Nov-06	14:12	6.40	24.3	5.65	5.46	5.56	87.9	86.1	8.2	31.9	3.0	2.9	3.3	8.5	11.2
754	WWA2	S	MID-FLOOD	29-Nov-06			24.4	5.93	5.76		92.4	86.9	8.2	32.1	3.3	3.2		8.0	
755	WWA2	M	MID-FLOOD	29-Nov-06			24.3	5.81	5.68		87.5	86.0	8.2	32.1	3.2	3.2		8.5	
756	WWA2	B	MID-FLOOD	29-Nov-06	14:00	6.90	24.4	5.52	5.46	5.49	84.5	84.2	8.2	32.1	4.0	3.8	3.8	17.0	6.8
757	WWA3	S	MID-FLOOD	29-Nov-06			24.3	5.87	5.69		93.6	89.2	8.2	31.4	4.1	4.1		5.0	
758	WWA3	M	MID-FLOOD	29-Nov-06			24.4	5.72	5.59		88.3	85.9	8.2	32.1	3.6	3.6		8.0	
759	WWA3	B	MID-FLOOD	29-Nov-06	14:38	31.80	24.2	5.62	5.46	5.55	86.0	84.2	8.2	32.1	3.6	3.7	2.7	7.5	8.5
760	WRA1	S	MID-FLOOD	29-Nov-06			24.5	5.95	5.76		91.9	87.8	8.2	32.2	2.9	2.9		13.5	
761	WRA1	M	MID-FLOOD	29-Nov-06			24.2	5.71	5.52		87.3	84.9	8.2	32.1	2.7	2.7		5.0	
762	WRA1	B	MID-FLOOD	29-Nov-06	14:50	28.50	24.3	5.60	5.42	5.51	88.8	83.5	8.2	32.2	2.7	2.6	2.7	7.0	7.0
763	WRA2	S	MID-FLOOD	29-Nov-06			24.6	5.91	5.76		93.2	90.7	8.2	32.1	2.8	2.7		7.0	
764	WRA2	M	MID-FLOOD	29-Nov-06			24.4	5.82	5.64		86.9	84.6	8.2	32.2	2.5	2.5		8.0	
765	WRA2	B	MID-FLOOD	29-Nov-06	15:06	29.30	24.5	5.77	5.56	5.67	86.3	83.6	8.2	32.2	3.0	2.8	3.0	6.0	9.2
766	WRA3	S	MID-FLOOD	29-Nov-06			24.5	5.93	5.86		96.7	91.6	8.3	32.1	3.2	3.2		7.0	
767	WRA3	M	MID-FLOOD	29-Nov-06			24.5	5.84	5.70		88.4	85.7	8.3	32.1	3.5	3.5		9.5	
768	WRA3	B	MID-FLOOD	29-Nov-06	15:47	32.40	24.5	5.71	5.53	5.62	87.4	84.6	8.3	32.1	3.3	3.2	3.0	11.0	8.2
769	WWFCZ1	S	MID-FLOOD	29-Nov-06			24.4	5.88	5.71		90.0	87.4	8.3	31.1	3.2	3.2		5.5	
770	WWFCZ1	M	MID-FLOOD	29-Nov-06			24.6	5.74	5.51		87.2	85.6	8.3	31.8	3.1	3.2		8.0	
771	WWFCZ1	B	MID-FLOOD	29-Nov-06	15:33	33.70	24.7	5.79	5.54	5.67	89.0	86.3	8.3	32.0	2.8	2.6	3.2	11.0	11.0
772	WWFCZ2	S	MID-FLOOD	29-Nov-06			24.5	5.95	5.80		92.2	87.0	8.2	31.6	3.1	3.3		5.5	
773	WWFCZ2	M	MID-FLOOD	29-Nov-06			24.5	5.86	5.64		87.3	84.6	8.2	31.9	3.0	3.3		14.5	
774	WWFCZ2	B	MID-FLOOD	29-Nov-06	16:01	39.60	24.5	5.73	5.50	5.62	86.7	84.1	8.3	32.2	3.2	3.3	3.0	13.0	13.7
775	WFCZR1	S	MID-FLOOD	29-Nov-06			24.6	5.92	5.81		91.6	86.2	8.3	32.1	3.4	3.3		6.5	
776	WFCZR1	M	MID-FLOOD	29-Nov-06			24.7	5.79	5.64		89.1	87.0	8.3	32.4	2.9	2.9		18.0	
777	WFCZR1	B	MID-FLOOD	29-Nov-06	15:20	41.10	24.6	5.62	5.50	5.66	88.3	85.7	8.3	32.4	2.6	2.7	3.0	16.5	13.7
778	WFCZR2	S	MID-FLOOD	29-Nov-06			24.7	5.95	5.74		98.4	95.0	8.2	32.2	3.1	3.1		11.0	
779	WFCZR2	M	MID-FLOOD	29-Nov-06			24.6	5.71	5.48		87.6	86.9	8.2	32.2	3.2	3.2		11.0	
780	WFCZR2	B	MID-FLOOD	29-Nov-06	24.6	5.83	5.60	86.4	84.7	8.2	32.2	3.5	3.5	19.0					

Appendix E

**Investigation Summary
on Marine Water Quality
Exceedances**

Date	Tide	Location	Exceedance of Monitoring Data										ET's Investigation	CT's action	Closing Date	Remark		
			DO (mg/L)			Tby (NTU)			SS (mg/L)									
			Position	Baseline Check	Control Station	Level at Impact Station	Baseline Check	Control Station	Level at Impact Station	Baseline Check	Control Station	Level at Impact Station						
4-Nov-06	Mid-ebb	WWFCZ1	-	-	-	-	-	-	-	-	-	13.0	18.8	19.5	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 4 Nov 2006 by ET's field staff. No marine works were being conducted on the same day. The SS level at WWFCZ1 was comparable to that at control station WFCR1, where high SS level was also recorded. In addition, the location of WWFCZ1 is far away from the construction site and no exceedances were recorded at other impact stations. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No action	24-Nov-06	Refer to ET's field record & CT's daily records.

Date	Tide	Location	Exceedance of Monitoring Data												CT's action	Closing Date	Remark	
			DO (mg/L)				Tby (NTU)				SS (mg/L)							
			Position	Baseline Check	Control Station	Level at Impact Station	Baseline Check	Control Station	Level at Impact Station	Baseline Check	Control Station	Level at Impact Station						
6-Nov-06	Mid-ebb	WWA1	-	-	-	-	-	-	-	-	-	13.0	10.5	20.3	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at WWA1, WWA2, WWA3 and WWFCZ2 on 6 Nov 2006 by ET's field staff. No marine works were being conducted on the same day. High SS levels were also recorded at control stations, WRA1, WRA2, WRA3 and WFCR2. In addition, the location of WWFCZ2 is far away from the construction site. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No action	24-Nov-06	Refer to ET's field record & CT's daily records.
6-Nov-06	Mid-ebb	WWA2	-	-	-	-	-	-	-	-	-	13.0	11.5	17.3		Ditto	Ditto	Ditto
6-Nov-06	Mid-ebb	WWA3	-	-	-	-	-	-	-	-	-	13.0	13.3	18.5		Ditto	Ditto	Ditto
6-Nov-06	Mid-ebb	WWFCZ2	-	-	-	-	-	-	-	-	-	13.0	12.3	17.0		Ditto	Ditto	Ditto

Date	Tide	Location	Exceedance of Monitoring Data												ET's Investigation	CT's action	Closing Date	Remark
			DO (mg/L)			Tby (NTU)			SS (mg/L)									
			Position	Baseline Check	Control Station	Level at Impact Station	Baseline Check	Control Station	Level at Impact Station	Baseline Check	Control Station	Level at Impact Station						
8-Nov-06	Mid-ebb	WWA1	-	-	-	-	-	-	13.0	16.5	21.7	-	-	-	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 8 Nov 2006 by ET's field staff. No marine works were being conducted on the same day. High SS levels were also recorded at control stations. In addition, the locations of WWFCZ1 and WWFCZ2 are far away from the construction site. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No action	24-Nov-06	Refer to ET's field record & CT's daily records.
8-Nov-06	Mid-ebb	WWA2	-	-	-	-	-	13.0	13.5	21.7	-	-	-	-	Ditto	Ditto	Ditto	
8-Nov-06	Mid-ebb	WWA3	-	-	-	-	-	13.0	16.2	23.0	-	-	-	-	Ditto	Ditto	Ditto	
8-Nov-06	Mid-ebb	WWFCZ1	-	-	-	-	-	13.0	22.2	24.7	-	-	-	-	Ditto	Ditto	Ditto	
8-Nov-06	Mid-ebb	WWFCZ2	-	-	-	-	-	13.0	19.2	31.0	-	-	-	-	Ditto	Ditto	Ditto	
8-Nov-06	Mid-flood	WWFCZ2	-	-	-	-	-	17.0	29.8	43.8	-	-	-	-	Ditto	Ditto	Ditto	

Date	Tide	Location	Exceedance of Monitoring Data												ET's Investigation	CT's action	Closing Date	Remark
			DO (mg/L)			Tby (NTU)			SS (mg/L)									
			Position	Baseline Check	Control Station	Level at Impact Station	Baseline Check	Control Station	Level at Impact Station	Baseline Check	Control Station	Level at Impact Station						
13-Nov-06	Mid-ebb	WWFCZ1	-	-	-	-	-	-	-	13.0	5.5	15.5	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 13 Nov 2006 by ET's field staff. No marine works were being conducted on the same day. The location of WWFCZ1 is far away from the construction site and no exceedances were recorded at WWA1, WWA2 and WWA3, which are closer to the construction site. Hence, the exceedance was unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.			No action	5-Dec-06	Refer to ET's field record & CT's daily records.

Date	Tide	Location	Exceedance of Monitoring Data												ET's Investigation	CT's action	Closing Date	Remark
			DO (mg/L)			Tby (NTU)			SS (mg/L)									
			Position	Baseline Check	Control Station	Level at Impact Station	Baseline Check	Control Station	Level at Impact Station	Baseline Check	Control Station	Level at Impact Station						
17-Nov-06	Mid-flood	WWA1	-	-	-	-	-	-	-	-	-	17.0	9.0	19.0	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 17 Nov 2006 by ET's field staff. No marine works were being conducted on the same day. It was the only one exceedance recorded on that day and the weather condition is sunny and fine during marine water quality monitoring. Hence, the exceedance was unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No action	5-Dec-06	Refer to ET's field record & CT's daily records.

Date	Tide	Location	Exceedance of Monitoring Data												ET's investigation	CT's action	Closing Date	Remark
			DO (mg/L)				Tby (NTU)				SS (mg/L)							
			Position	Baseline Check	Control Station	Level at Impact Station	Baseline Check	Control Station	Level at Impact Station	Baseline Check	Control Station	Level at Impact Station						
20-Nov-06	Mid-ebb	WWFCZ2	-	-	-	-	-	-	-	-	-	13.0	9.5	16.3	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 20 Nov 2006 by ET's field staff. No marine works were being conducted on the same day. The location of WWFCZ2 is far away from the construction site and no exceedances were recorded at WWA1, WWA2 and WWA3, which are closer to the construction site. Hence, the exceedance was unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No action	5-Dec-06	Refer to ET's field record & CT's daily records.

Date	Tide	Location	Exceedance of Monitoring Data												ET's Investigation	CT's action	Closing Date	Remark
			DO (mg/L)			Tby (NTU)			SS (mg/L)									
			Position	Baseline Check	Control Station	Level at Impact Station	Baseline Check	Control Station	Level at Impact Station	Baseline Check	Control Station	Level at Impact Station						
24-Nov-06	Mid-ebb	WWFCZ1	-	-	-	-	-	-	-	13.0	14.3	22.3	<p>No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 24 Nov 2006 by ET's field staff. No marine works were being conducted on the same day. The location of WWFCZ1 is far away from the construction site and no exceedances were recorded at WWA1, WWA2 and WWA3, which are closer to the construction site. In addition, high SS level (14.3 mg/L) was recorded at WFCZR1. Hence, the exceedance was unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.</p>	No action	7-Dec-06	Refer to ET's field record & CT's daily records.		

Date	Tide	Location	Exceedance of Monitoring Data												CT's action	Closing Date	Remark	
			DO (mg/L)				Tby (NTU)				SS (mg/L)							
			Position	Baseline Check	Control Station	Level at Impact Station	Baseline Check	Control Station	Level at Impact Station	Baseline Check	Control Station	Level at Impact Station						
27-Nov-06	Mid-ebb	WWA1	-	-	-	-	-	-	-	-	-	13.0	10.2	15.0	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 27 November 2006 by ET's field staff. No marine works were being conducted on the same day. The exceedances were marginal to the Baseline Check Criteria and high SS levels were also recorded at the control stations, WRA1 and WRA2. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No action	7-Dec-06	Refer to ET's field record & CT's daily records.
27-Nov-06	Mid-ebb	WWA2	-	-	-	-	-	-	-	-	-	13.0	8.3	16.0	Ditto	Ditto	Ditto	Ditto

Appendix F

Copy of New
Environmental Permit

FORM 3
NOISE CONTROL ORDINANCE
(Chapter 400)
SECTION 8(9)

[reg.5(a)]

**CONSTRUCTION NOISE PERMIT FOR THE USE OF POWERED
MECHANICAL EQUIPMENT FOR THE PURPOSE OF CARRYING OUT
CONSTRUCTION WORK OTHER THAN PERCUSSIVE PILING AND/OR
THE CARRYING OUT OF PRESCRIBED CONSTRUCTION WORK**

CONSTRUCTION NOISE PERMIT NO. GW-RW0654-06

To: Chun wo Construction & Engineering Company Limited

This construction noise permit is issued in accordance with section 8 of the Noise Control Ordinance. Permission is granted for the use of powered mechanical equipment for the purpose of carrying out construction work other than percussive piling and/or the carrying out of prescribed construction work, subject to the conditions set out below. The carrying out of construction work otherwise than in accordance with the conditions may result in the permit being cancelled and in a prosecution for an offence.

CONDITIONS

1. Construction site where the powered mechanical equipment and/or prescribed construction work may be employed :

Full address : Castle Peak Road - west of Tsing Lung Tau, Tsuen Wan, N.T.

Lot No. -----

The site boundary, that is, the boundary of the area within which the powered mechanical equipment may be used and the prescribed construction work may be carried out is delineated on the attached plan which forms part of this construction noise permit.

2. ~~*PART~~/WHOLE of the site falls ~~*WITHIN~~/OUTSIDE a designated area.

3. Powered Mechanical Equipment

- a. Items of powered mechanical equipment which may be used inside the site boundary :

<i>Identification code of item of powered mechanical equipment (if applicable)</i>	<i>Description of item of powered mechanical equipment</i>	<i>No. of units</i>
	Refer to attached sheet	
/		

- b. Validity of the construction noise permit for the use of the powered mechanical equipment:

Date and time of commencement : 14 November 2006 at 1900 hours

Days and hours : General holidays (including Sundays): 0700-2300 hours.

Any day, not being a general holiday: 1900-2300 hours.

This part of the permit expires on : 15 March 2007 at 2300 hours

- c. One photograph, endorsed by the Authority, of each item of powered mechanical equipment described in this construction noise permit is required to be kept on the construction site and made available for inspection by the Authority.

- d. Other conditions imposed on the use of the powered mechanical equipment:

Refer to attached sheet



4. Prescribed Construction Work

a. Type of prescribed construction work which may be carried out inside the site boundary:

Identification code of type of prescribed construction work	Description of type of prescribed construction work
	Nil
/	

b. Validity of the construction noise permit for the carrying out of the prescribed construction work:

Date and time of commencement : Not applicable at Not applicable

Days and hours : Not applicable

This part of the permit expires on : Not applicable at Not applicable

c. ~~Site layout plan(s), endorsed by the Authority, may be attached with the permit to indicate the locations permitted for the carrying out of prescribed construction work described in this permit. The layout plan(s) is(are) required to be kept on the construction site and made available for inspection by the Authority.~~

d. Other conditions imposed on the carrying out of the prescribed construction work:

Not applicable

5. This construction noise permit or a copy thereof must be displayed on the construction site at all vehicular site
entrances/exits for public information at all times when the powered mechanical equipment
covered by this permit are being used for carrying out construction work.

Dated this 14th day of November 2006



Signed: 
 (LEUNG Cho-shing)
 for Authority

* Delete as necessary

表格 3
噪音管制條例
(第400章)
第8(9)條

[第5(a)條]

建築噪音許可證
為進行建築工程（撞擊式打樁除外）
而使用機動設備及／或進行訂明建築工程

建築噪音許可證編號: GW-RW0654-06

致: 俊和建築工程有限公司

本建築噪音許可證是按照《噪音管制條例》第8條的規定而發出的。現准予使用機動設備以進行撞擊式打樁工程以外的建築工程及／或進行訂明建築工程，但須受以下條件規限。若不按照該等條件進行建築工程，許可證可遭撤銷，而且會受到檢控。

條 件

1. 可使用機動設備及／或進行訂明建築工程的建築地盤：

詳細地址: 新界荃灣青龍頭西-青山公路

地段編號: -----

地盤範圍(即可使用機動設備及進行訂明建築工程的地方範圍)已描劃於夾附的圖則上，而該圖則是本建築噪音許可證的一部分。

2. 該地盤部份/全部*位於指定範圍之內/外*。
3. 機動設備

- a. 在地盤範圍內可使用的各項機動設備：

各項機動設備的識辨代碼 (如適用的話)	各項機動設備的說明	數目
	參見附頁	
/		

- b. 可使用機動設備的建築噪音許可證有效期：

生效日期及時間：二零零六年十一月十四日 下午七時正

日期及時間：公眾假日(包括星期日): 上午七時正至晚上十一時正。

公眾假日以外任何一天: 下午七時正至晚上十一時正。

此部分許可證屆滿日期及時間：二零零七年三月十五日 晚上十一時正

日期

時間

- c. 建築地盤須備有本建築噪音許可證所述每件機動設備的照片各一幀，供監督隨時查看；該等照片須經監督認可；
d. 規限使用機動設備的其他條件：
參見附頁



4. 訂明建築工程

a. 在地盤範圍內可進行的訂明建築工程：

訂明建築工程的識辨代碼	訂明建築工程的類別的說明
無	

b. 可進行訂明建築工程的建築噪音許可證有效期：

生效日期及時間： 不適用

日期及時間： 不適用

此部分許可證屆滿日期及時間： 不適用

日期 時間

c. 本許可證可夾附經監督認可的地盤圖則，以顯示本許可證准予進行訂明建築工程的地點。該地盤圖則須存放於建築地盤供監督隨時查看。

d. 規限進行訂明建築工程的其他條件：

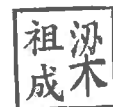
不適用

5. 本建築噪音許可證或其副本必須展示於建築地盤的 所有車輛進出口處，以便在使用此證內載列的機動設備進行建築工程的任何時候，給予公眾人士參閱。

日期： 二零零六年十一月十四日



簽署： (梁祖成) 代行)



監督

* 刪去不適用者

Sheets Attached to
Construction Noise Permit No. GW-RW0654-06

3a. Items of powered mechanical equipment which may be used inside the site boundary:

Identification code of item of powered mechanical equipment (if applicable)	Description of item of powered mechanical equipment	No. of units	Work Zone
Group A			
-----	Grout mixer	One	I & II
-----	Grout pump	One	
-----	Generator, with sound pressure level of ≤ 75 dB(A) measured at 7 m from the centre of the generator	Two	
CNP 283	Water pump, submersible (electric)	Six	
Group B			
-----	Grout mixer	One	I & II
-----	Grout pump	One	
-----	Air Compressor, with Noise Emission Label showing a sound power level of ≤ 102 dB(A)	One	
Group C			
-----	Generator, with sound pressure level of ≤ 75 dB(A) measured at 7 m from the centre of the generator	One	I & II
CNP 283	Water pump, submersible (electric)	Three	
Group D			
-----	Generator, with sound pressure level of ≤ 75 dB(A) measured at 7 m from the centre of the generator	One	I & II
CNP 283	Water pump, submersible (electric)	Three	
-----	Lorry, with crane, gross vehicle weight ≤ 38 tonnes	One	
Group E			
-----	Generator, with sound pressure level of ≤ 75 dB(A) measured at 7 m from the centre of the generator	One	I
CNP 283	Water pump, submersible (electric)	Three	
CNP 081	Excavator, tracked	One	
Group F			
-----	Generator, with sound pressure level of ≤ 75 dB(A) measured at 7 m from the centre of the generator	One	I & II
CNP 283	Water pump, submersible (electric)	Three	
CNP 065	Drill, hand-held (electric)	Three	
CNP 065	Grinder, hand-held (electric)	Three	
Group G			
CNP 045	Concrete mixer (electric)	One	I & II
-----	Air Compressor, with Noise Emission Label showing a sound power level of ≤ 102 dB(A)	One	

3d. Other conditions imposed on the use of the powered mechanical equipment:

1. The powered mechanical equipment shall only be operated within the corresponding work zones specified in condition no. 3a above.
2. In each work zone, only one group of the powered mechanical equipment listed in condition no.3a shall be operated at any time.
3. All flaps and panels of the air compressors and the generators shall be closed when operated.



Signed: _____

(LEUNG Cho-shing)
for Authority

建築噪音許可證
編號 GW-RW0654-06 的附頁

3a. 在地盤範圍內可使用的各項機動設備：

各項機動設備的識辨代碼 (如適用的話)	各項機動設備的說明	數目	工作範圍
A 組			
-----	灌漿攪拌機	壹	I 及 II
-----	灌漿泵	壹	
-----	發電機，在距離發電機中心點的 7 米所量度的聲壓級 (A) ≤ 75 分貝(A)	貳	
CNP 283	潛水泵 (電動)	陸	
B 組			
-----	灌漿攪拌機	壹	I 及 II
-----	灌漿泵	壹	
-----	空氣壓縮機，備有噪音標籤顯示聲功率級 ≤ 102 分貝(A)	壹	
C 組			
-----	發電機，在距離發電機中心點的 7 米所量度的聲壓級 (A) ≤ 75 分貝(A)	壹	I 及 II
CNP 283	潛水泵 (電動)		
D 組			
-----	發電機，在距離發電機中心點的 7 米所量度的聲壓級 (A) ≤ 75 分貝(A)	壹	I 及 II
CNP 283	潛水泵 (電動)		
-----	吊臂貨車，總重量 ≤ 38 噸	壹	
E 組			
-----	發電機，在距離發電機中心點的 7 米所量度的聲壓級 (A) ≤ 75 分貝(A)	壹	I
CNP 283	潛水泵 (電動)		
CNP 081	挖土機，履帶式	壹	
F 組			
-----	發電機，在距離發電機中心點的 7 米所量度的聲壓級 (A) ≤ 75 分貝(A)	壹	I 及 II
CNP 283	潛水泵 (電動)		
CNP 065	鑽，手提型 (電動)		
CNP 065	磨機，手提型 (電動)		
G 組			
CNP 045	混凝土攪拌機 (電動)	壹	I 及 II
-----	空氣壓縮機，備有噪音標籤顯示聲功率級 ≤ 102 分貝(A)	壹	

3d. 規限使用機動設備的其他條件：

1. 所有機動設備祇可在上述條件 3a 指定的工作範圍內操作。
2. 每個工作範圍內，在任何時間只可使用條件 3a 內載的其中一組機動設備。
3. 空氣壓縮機及發電機的所有覆蓋及嵌板於操作時必須關閉。

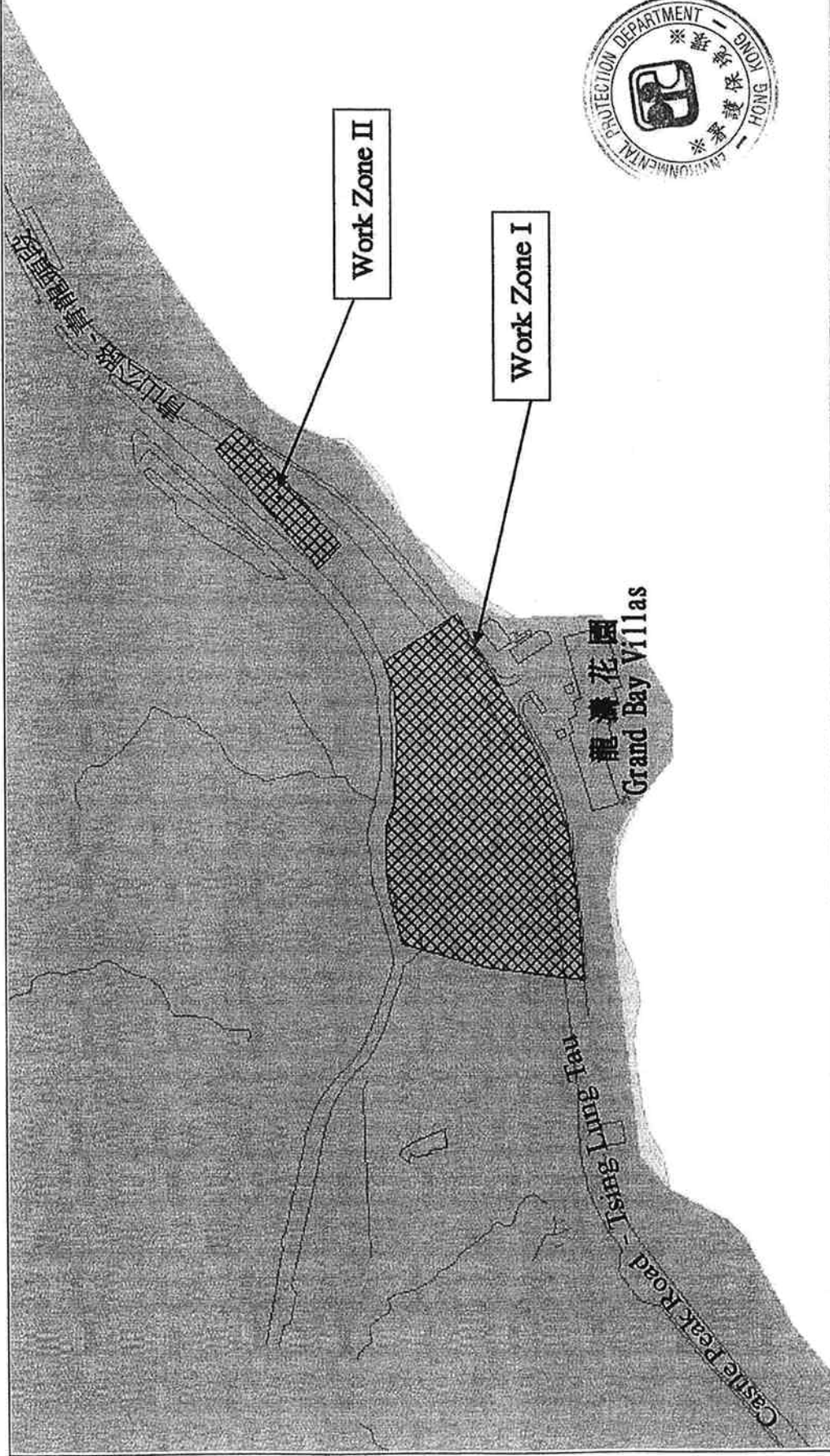


監督

(梁祖成



) 代行)



環境保護署
Environmental Protection Department

噪音管制監督
Noise Control Authority

圖例 Legend



建築地盤
Construction Site

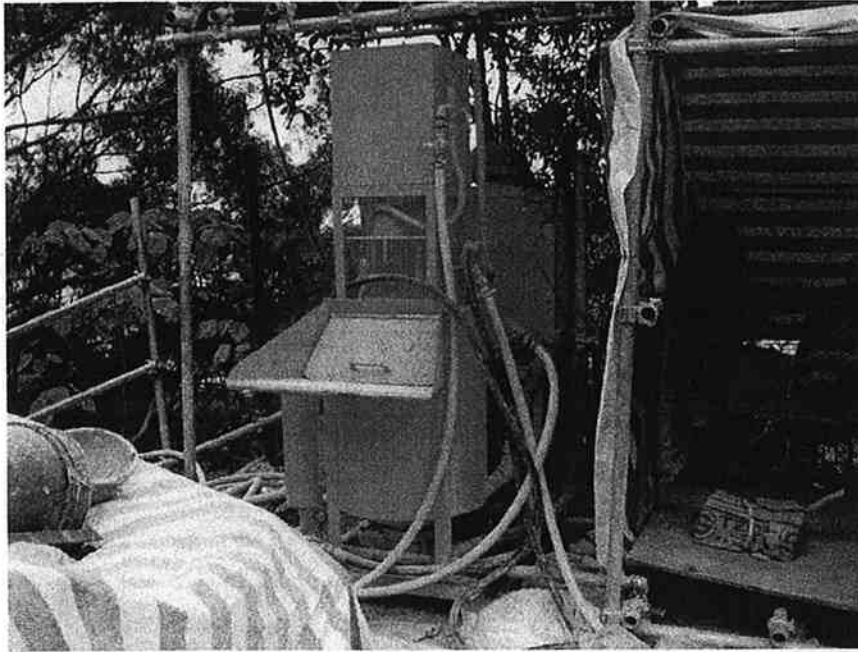
建築噪音許可證編號 **GW-RW0654-06** 的附圖

Plan attached to Construction Noise Permit No. **GW-RW0654-06**

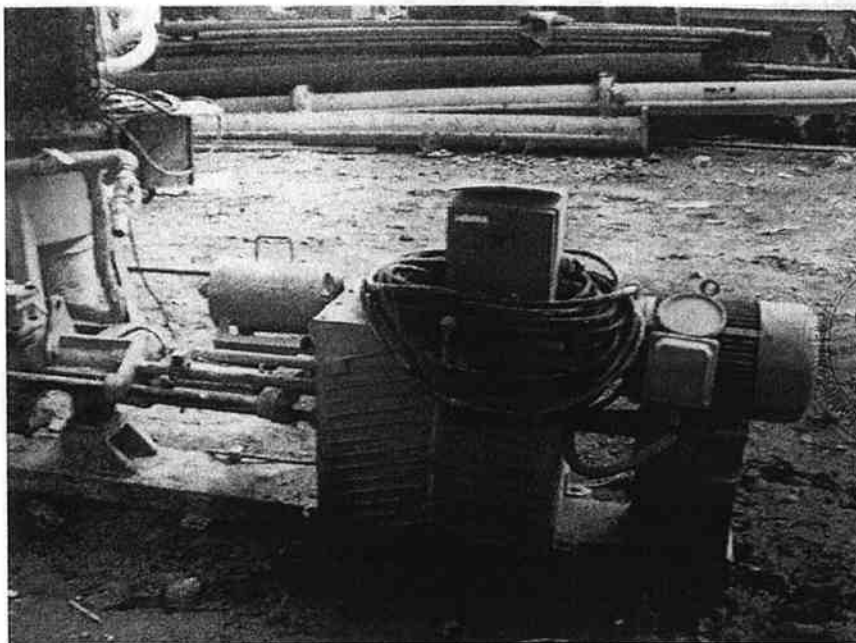
比例
Scale 1:2000

建築噪音許可證編號 GW-RW0654-06 的相片

Photographs attached to Construction Noise Permit No. GW-RW0654-06



灌漿攪拌機
Grout mixer



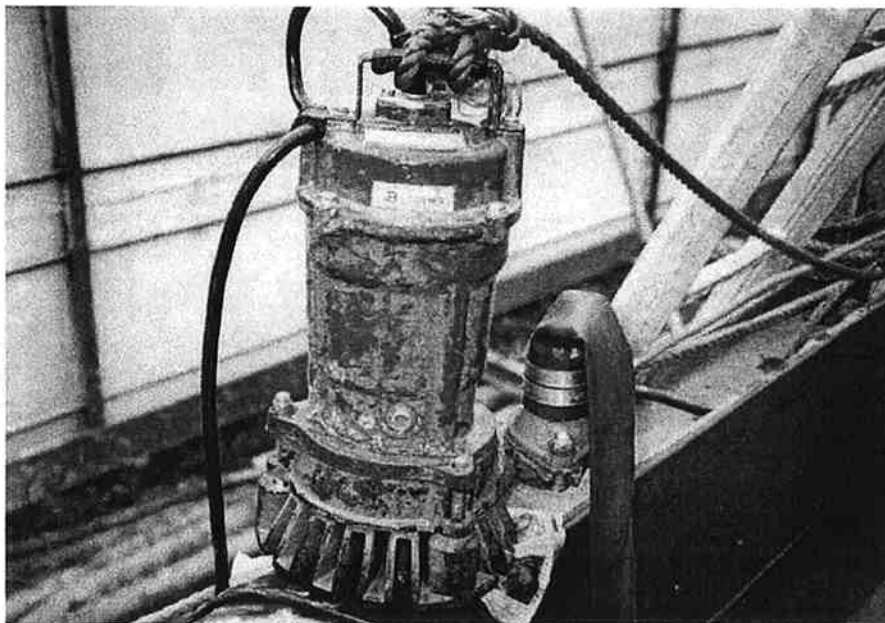
灌漿泵
Grout pump

建築噪音許可證編號 GW-RW0654-06 的相片

Photographs attached to Construction Noise Permit No. GW-RW0654-06



發電機，在距離發電機中心點的 7 米所量度的聲壓級 (A) ≤ 75 分貝(A)
Generator, with sound pressure level of ≤ 75 dB(A) measured at 7 m
from the centre of the generator



CNP 283 潛水泵 (電動)
Water pump, submersible (electric)

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空氣壓縮機，備有噪音標籤顯示聲功率級 ≤ 102 分貝(A)

Air Compressor, with Noise Emission Label showing
a sound power level of ≤ 102 dB(A)



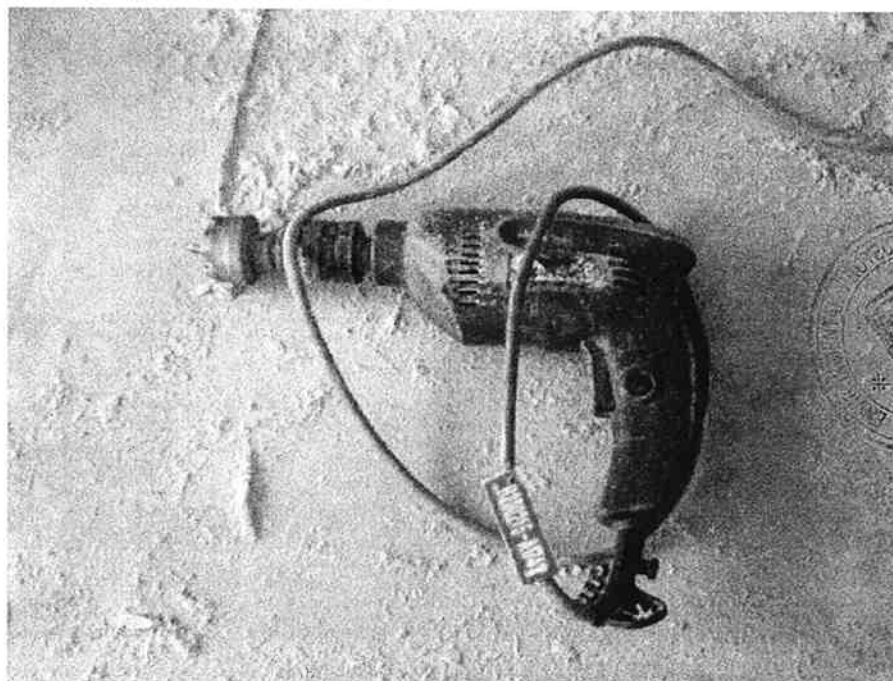
吊臂貨車，總重量 ≤ 38 噸

Lorry, with crane, gross vehicle weight ≤ 38 tonnes

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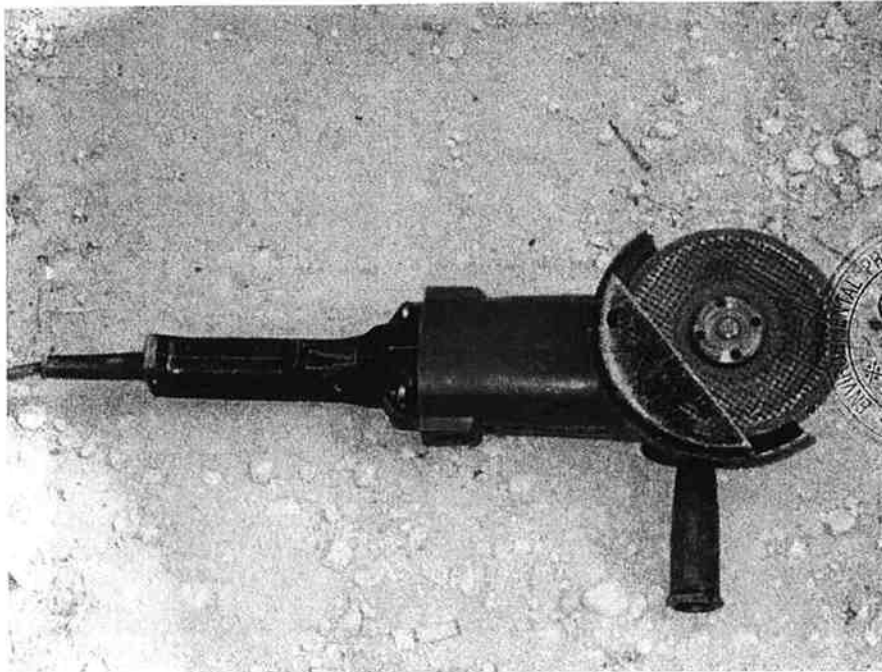


CNP 081 挖土機，履帶式
Excavator, tracked

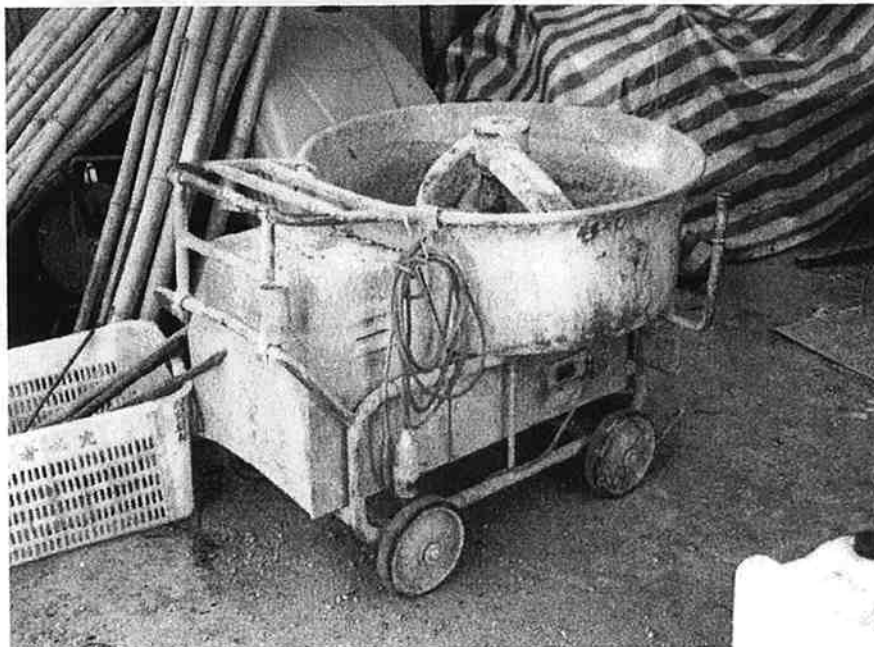


CNP 065 鑽，手提型 (電動)
Drill, hand-held (electric)

建築噪音許可證編號 GW-RW0654-06 的相片
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CNP 065 磨機，手提型 (電動)
Grinder, hand-held (electric)



CNP 045 混凝土攪拌機 (電動)
Concrete mixer (electric)