

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)  
June 2006

**Second Issue**

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)  
June 2006

July 2006

**Ove Arup & Partners Hong Kong Ltd**

Level 5, Festival Walk, 80 Tat Chee Avenue, Kowloon Tong, Kowloon, Hong Kong  
Tel +852 2528 3031 Fax +852 2268  
www.arup.com

This report takes into account the particular  
instructions and requirements of our client.  
It is not intended for and should not be relied  
upon by any third party and no responsibility  
is undertaken to any third party

Job number 24583

**Maunsell Environmental Management Consultants Ltd**

11/F Grand Central Plaza, Tower 2, 138 Shatin Rural Committee Road, Shatin, N.T., Hong Kong

茂盛環境管理顧問有限公司

香港新界沙田鄉事會路 138 號新城市中央廣場 2 座 11 樓

T +852 2893 1551 F +852 2891 0305 www.maunsell.aecom.com

Your Ref.: --

Our Ref.: S001-06/c/cwhy607122

By Fax (2417 0134) and Post

Meinhardt Halcrow JV  
4/F., Wah Ming Centre,  
421 Queen's Road West,  
Hong Kong

Attn : Mr. Jeff S K Yu

12 July 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) – June 2006**

We refer to the Monthly EM&A Report for Reclamation Works (EP No. EP-219/2005) – June 2006 received via emails on 12 July 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 12 July 2006, the Monthly EM&A Report for Reclamation Works (EP No. EP-219/2005) – June 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**



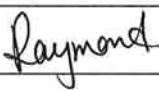


Y T Tang  
Independent Environmental Checker

cc	MHJV	-	Mr. Simon Illingworth	(Fax: 2569 1613)
	Arup	-	Mr. Sam Tsoi / Mr. Fredrick Leong	(Fax: 2268 3950)

Job title Contract No HY/2005/06 Castle Peak Road Improvement – West of Tsing Lung Tau Job number 24583

Document title Monthly Environmental Monitoring and Audit Report for Reclamation Works (EP No EP-219/2005) – June 2006 File reference

Document ref

Revision	Date	Filename	09-June-06 (Reclamation).doc		
First Issue	10/07/06	Description	Submit to IEC for comments		
			Prepared by	Checked by	Approved by
		Name	Raymond Liu	Sam Tsoi	Sam Tsoi
		Signature			
Second Issue	12/7/06	Filename	09-June-06 (Reclamation)-RevA.doc		
		Description	Submit to ER with IEC's verification letter		
			Prepared by	Checked by	Approved by
		Name	Raymond Liu	Sam Tsoi	Sam Tsoi
		Signature			
		Filename			
		Description			
			Prepared by	Checked by	Approved by
		Name			
		Signature			
		Filename			
		Description			
			Prepared by	Checked by	Approved by
		Name			
		Signature			

Issue Document Verification with Document

## Contents

	Page
Executive Summary	i
1 Introduction	1
1.1 Project Background	1
1.2 Project Organisation	2
1.3 Impact EM&A Requirements	4
1.4 Purpose of the Report	4
2 Scope of Construction Works	4
2.1 Construction Programme	4
2.2 Construction Activities of the Month	4
3 Summary of EM&A Requirements	4
3.1 Construction Noise	4
3.2 Marine Water Quality	6
3.3 Performance Limits and Event and Action Plan	7
3.4 Site Inspection and Environmental Complaint Handling	13
4 Noise Monitoring	16
4.1 Monitoring Equipment	16
4.2 Methodology	16
4.3 Results and Observations	16
5 Marine Water Quality Monitoring	17
5.1 Marine Water Quality Monitoring Equipment	17
5.2 Methodology	17
5.3 Results and Observations	18
6 Site Inspection, Waste Disposal, environmental complaints, environmental licenses and non-compliance records	24
6.1 Site Audit Findings	24
6.2 Waste Disposal	26
6.3 Complaint Record	26
6.4 Exceedance	26
6.5 Notification of Summons and Successful Prosecution	28
6.6 Environmental Licenses	28
7 Conclusions	28
8 References	28

**Tables**

- Table 3-1: Construction noise monitoring parameters and frequency  
Table 3-2: Construction noise monitoring locations  
Table 3-3: Marine water quality monitoring locations  
Table 3-4: Action and Limit Levels of construction noise  
Table 3-5: Event and Action Plan for construction noise  
Table 3-6: Action and Limit Levels of marine water quality established in Baseline Monitoring Report #  
Table 3-7: Marine water quality data obtained in the baseline check on 27 February 2006  
Table 3-8: Event-Action plan for marine water quality  
Table 5-1: Equipment list for construction noise monitoring  
Table 5-1: Marine water quality monitoring equipment  
Table 6-1: Findings of weekly environmental site audit in June 2006  
Table 6-2: Waste disposal quantity in June 2006  
Table 6-3: Summary of exceedances of marine water quality monitoring in June 2006  
Table 6-4: Summary of valid environmental licences in June 2006

**Figures**

- Figure 1-1: Site location plan  
Figure 1-2: Project organisation chart  
Figure 3-1: Noise monitoring station  
Figure 3-2: Marine water quality monitoring locations  
Figure 3-3: Complaint procedure  
Figure 5-1: DO levels (surface and middle level) at mid-ebb tide in June 2006  
Figure 5-2: DO levels (bottom level) at mid-ebb tide in June 2006  
Figure 5-3: DO levels (surface and middle level) at mid-flood tide in June 2006  
Figure 5-4: DO levels (bottom level) at mid-flood tide in June 2006  
Figure 5-5: Turbidity levels at mid-ebb tide in June 2006  
Figure 5-6: Turbidity levels at mid-flood tide in June 2006  
Figure 5-7: SS levels at mid-ebb tide in June 2006  
Figure 5-8: SS levels at mid-flood tide in June 2006

**Appendices**

- Appendix A Construction programme  
Appendix B Monitoring schedule for June and July 2006  
Appendix C Calibration certificates of marine monitoring equipment  
Appendix D Marine water quality monitoring results  
Appendix E Records on C&D Materials Disposal Form (delivered by barge)  
Appendix F New Environmental Licence

## Executive Summary

This is the fourth monthly environmental monitoring and audit (EM&A) report presenting the progress of environmental monitoring and audit works for the reporting period between 1 June 2006 and 30 June 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**

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 levels for surface & middle and bottom position were 5.48 mg/L at WWFCZ1 on 28 June 2006 and 5.46 mg/L at WWFCZ2 on 16 June 2006 respectively. There were 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 22.1 Nephelometric Turbidity Unit (NTU) at WWA3 on 9 June 2006. There were 1 exceedance of Action Level and 4 exceedances of Limit 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 25.8 mg/L at WWA3 on 9 June 2006. There were 4 exceedances of Baseline Check Criteria and 1 exceedance of Limit Level during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

#### **Summary of Mid-Flood Tide**

The lowest DO levels for surface & middle and bottom positions were 5.53 mg/L at WWFCZ1 on 28 June 2006 and 5.33 mg/L at WWA2 on 19 June 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 11.9 NTU at WWA3 on 9 June 2006. There were 1 exceedance of Baseline Check Criteria and 1 exceedance of Limit 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 22.5 mg/L at WWA3 on 9 June 2006. There was 1 exceedance of Action Level during reporting period when compared with the established A/L Levels and 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 June 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:** Regular watering on exposed slopes and excavated materials;

**Water quality:** Frequent clearing of mud trails and stagnant water; provision of treatment of site runoff before discharging

**Waste management:** Frequent clearing of construction waste and general refuse; and

**Handling of chemical waste:** Provision of drip tray for oil drum.

### **Waste Disposal**

A total of 16 tonnes of Construction & Demolition (C&D) waste and a total of 2,866 tonnes of C&D materials (206 tonnes by truck and 2,660 tonnes by barge) were disposed of at WENT Landfill and Public Filling Reception Facility at Tuen Mun Area 38 respectively in June 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 Tby and SS levels for marine water quality in June 2006 when compared with A/L Levels and baseline check criteria.

The exceedances of Tby level at WWA1 on 3 June and SS level at WWA3 on 5 June were only marginal to the Baseline Check Criteria at these two monitoring locations. In addition, there were no exceedances of SS level on 3 June and Tby level on 5 June at all monitoring locations. Hence, the exceedances were unlikely due to the construction works of the Project.

Heavy rain was observed during monitoring period on 9 and 12 June 2006. Soil and dirt were washed down from shore to the sea. The exceedances of Tby and SS levels recorded at WWA2 and WWA3 on 9 and 12 June 2006 were unlikely caused by the construction of reclamation in the vicinity of Seawall B, but still related to the Project.

The exceedances of Tby and SS levels recorded at WWFCZ1 and WWFCZ2 on 14, 19 and 21 June 2006 were also unlikely due to construction activities of the Project as no muddy water and abnormal activities which would likely cause deterioration of water quality were observed at monitoring stations by ET's field staff. In addition, the exceedances contributed by the nearby monitoring stations would be unlikely due to their normal Tby or SS levels.

### **Notification of Summons and Successful Prosecution**

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

### **Environmental Licences**

Two Construction Noise Permits were granted to the CT 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.

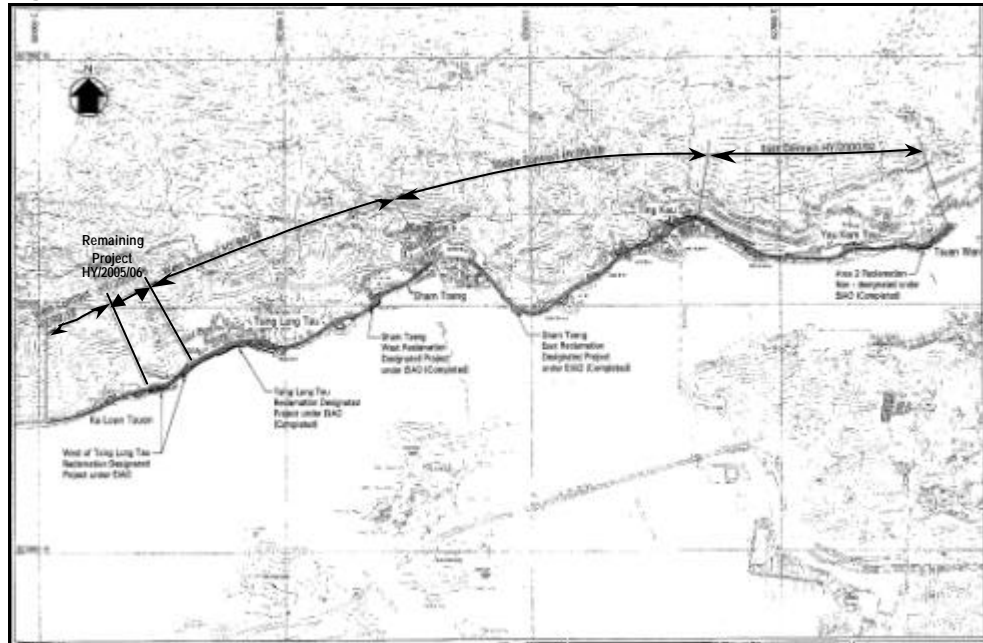
Following subsequent developments, the Route 10 project was placed under review, and Government therefore decided to implement the excised section of CPR (the Remaining Project) under the original CPR Improvement project. **Figure 1-1** shows the site location plan.

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.

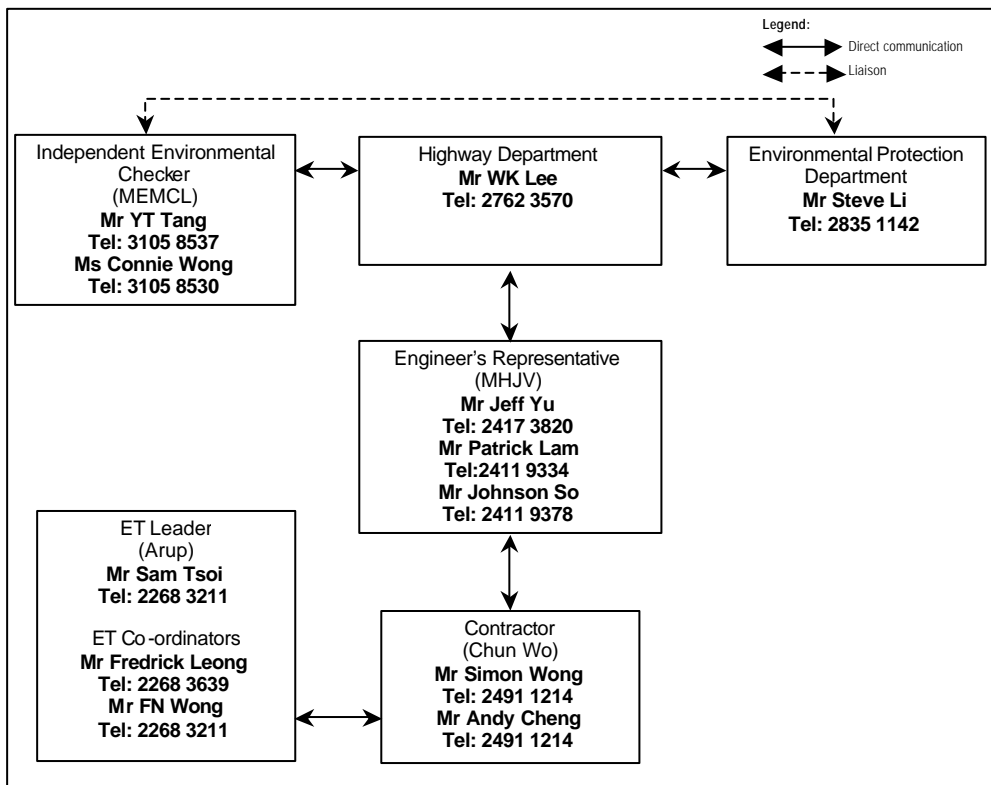
**Figure 1-1:** Site location plan



**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 fourth 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 June 2006 to 30 June 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 June 2006 included:

- Placing armour rock and construction of lower RC retaining wall at Seawall A; and
- Construction of RC retaining wall 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 June 2006 and the tentative schedule for July 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**

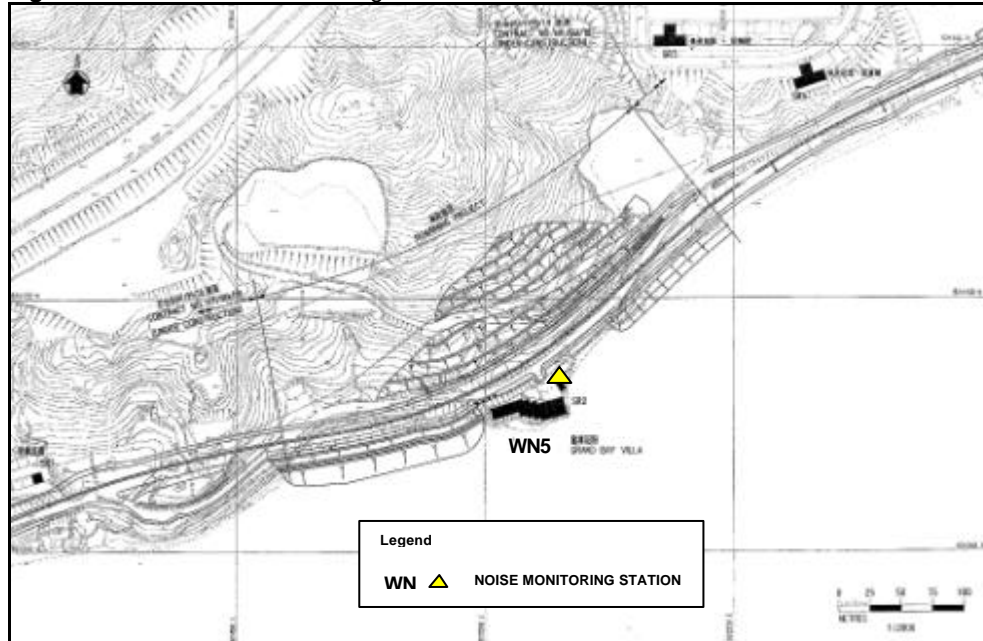
Noise monitoring will be conducted at one designated location as shown in **Figure 3-1**. The details of the noise monitoring location are given in **Table 3-2**. The measurements will be taken at a position 1m from the exterior of building façade and at a position of 1.2m above ground.

**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.

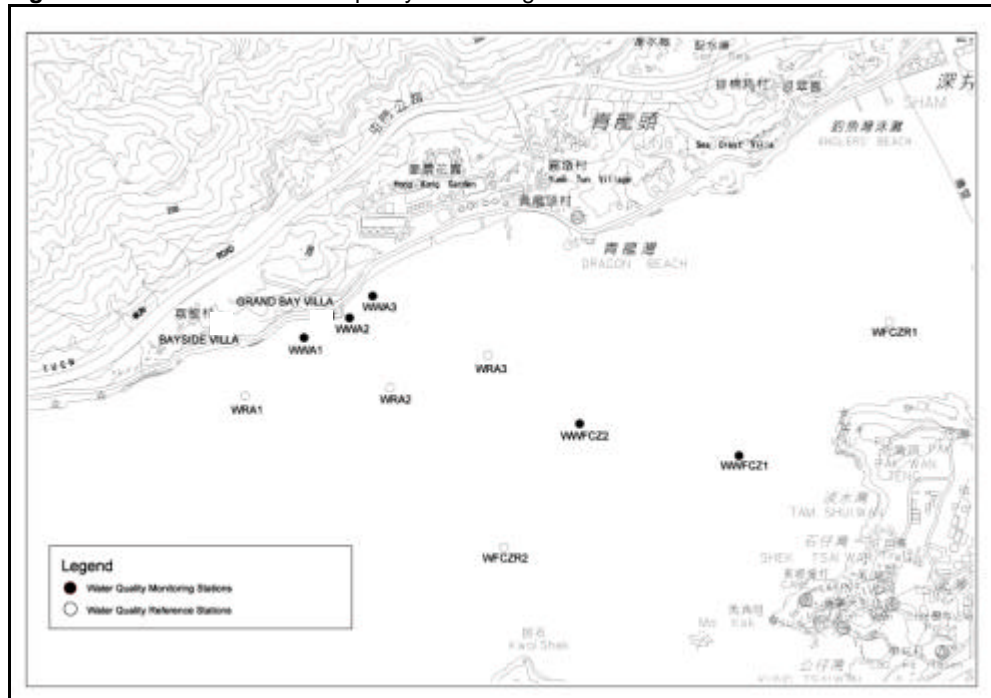
### 3.2.3 Monitoring Locations

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



### 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<sup>#</sup>

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
<b>Mid-ebb</b>											
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
<b>Mid-flood</b>											
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:

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

### 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

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:

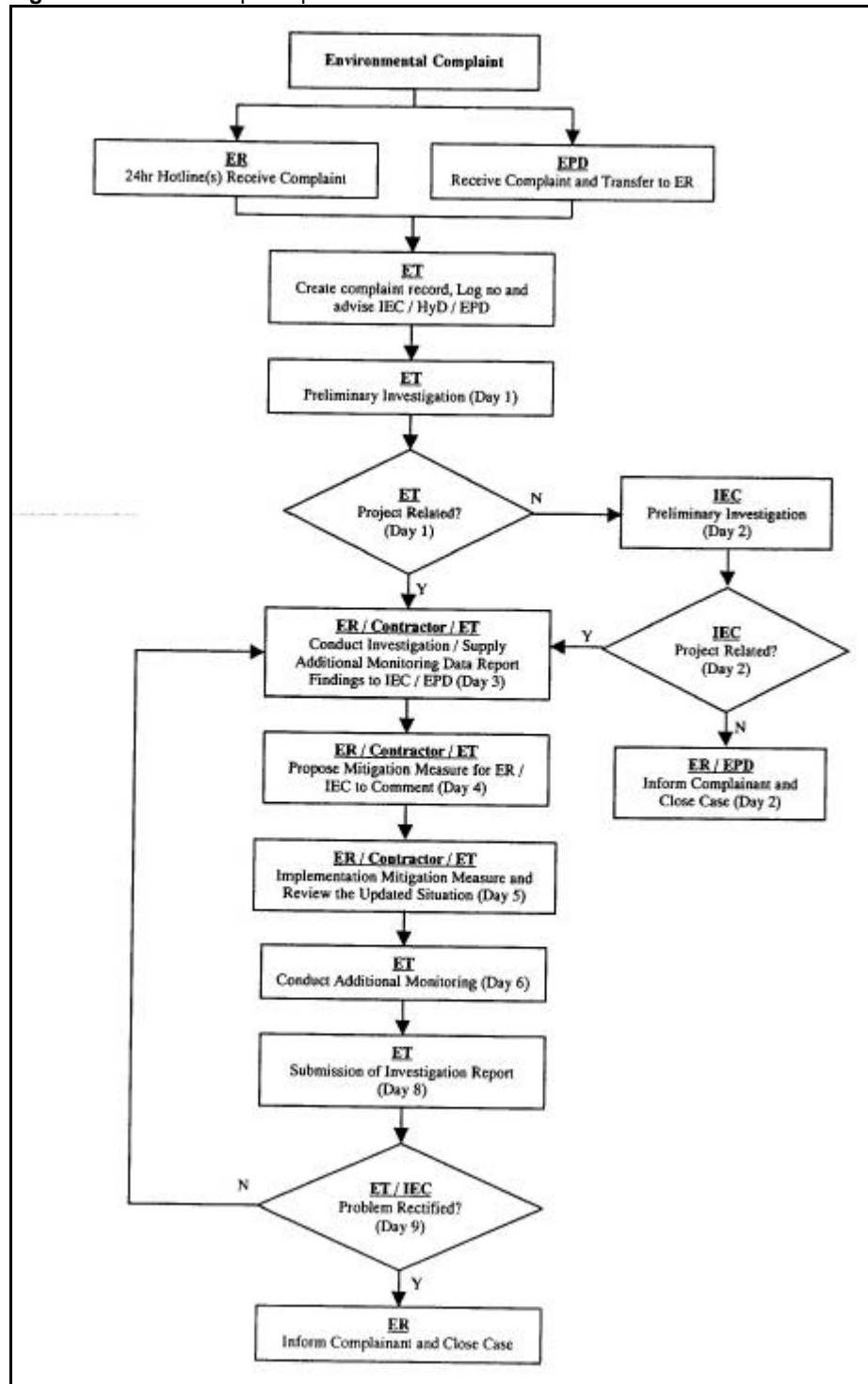
- a) The ET will record the details of the complaint and the date of receipt into the complaint database, and inform ER immediately.
- b) The ET will perform compliant investigation to determine its validity and to assess whether the source of the problem is due to work activities.
- c) The ER will instruct the CT to identify mitigation measures in consultation with the ET, if the complaint 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 followup 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	Briel & Kjaer UA0237		1
Acoustical calibrator	Briel & Kjaer 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 Aweighted 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	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

No adverse weather conditions were recorded during the reporting period.

### 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 levels for surface & middle and bottom position were 5.48 mg/L at WWFCZ1 on 28 June 2006 and 5.46 mg/L at WWFCZ2 on 16 June 2006 respectively. There were 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 22.1 Nephelometric Turbidity Unit (NTU) at WWA3 on 9 June 2006. There were 1 exceedance of Action Level and 4 exceedances of Limit 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 25.8 mg/L at WWA3 on 9 June 2006. There were 4 exceedances of Baseline Check Criteria and 1 exceedance of Limit Level during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

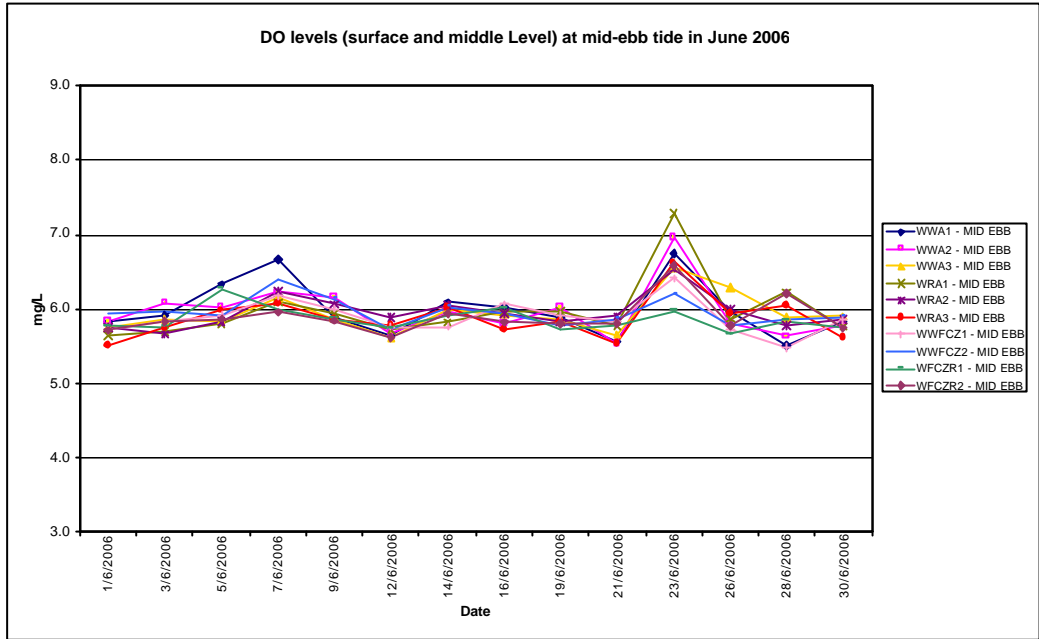
### Summary of Mid-Flood Tide

The lowest DO levels for surface & middle and bottom positions were 5.53 mg/L at WWFCZ1 on 28 June 2006 and 5.33 mg/L at WWA2 on 19 June 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.

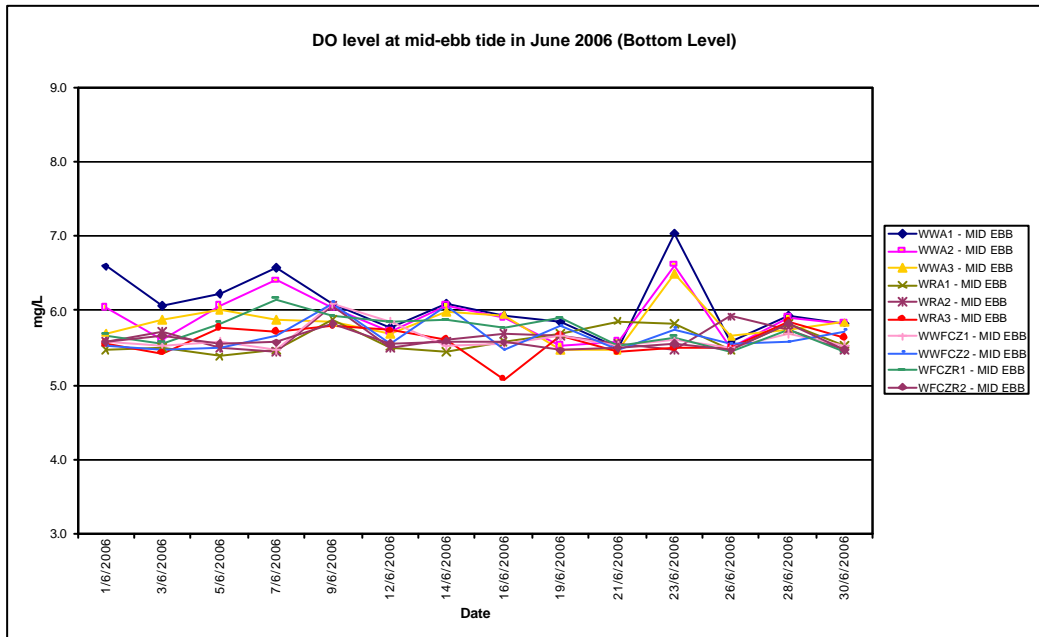
The highest depth-averaged Tby level was 11.9 NTU at WWA3 on 9 June 2006. There were 1 exceedance of Baseline Check Criteria and 1 exceedance of Limit Level during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest SS level was 22.5 mg/L at WWA3 on 9 June 2006. There was 1 exceedance of Action Level during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

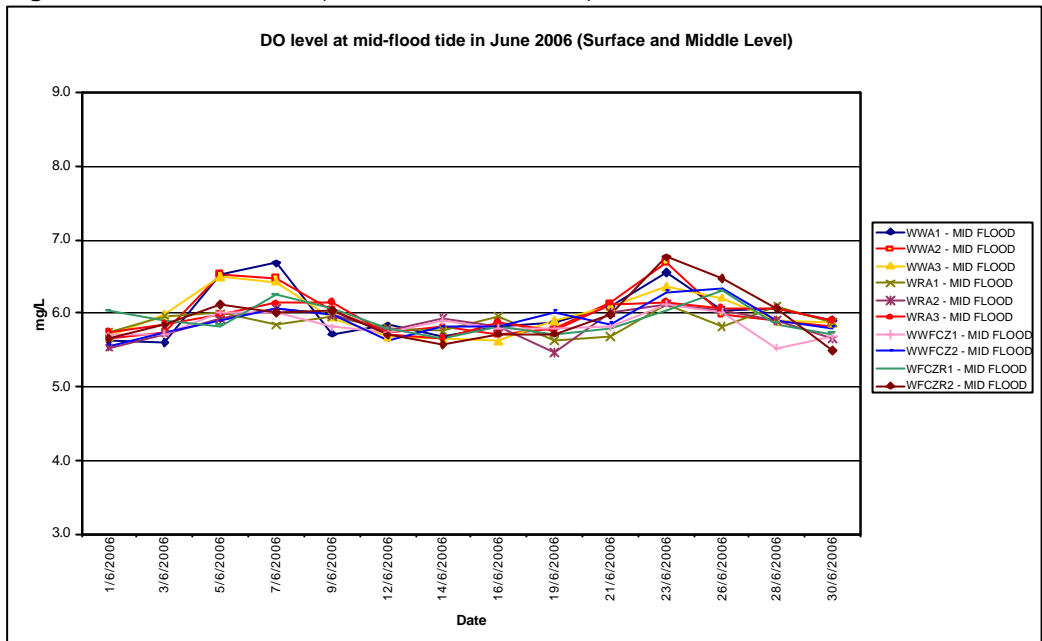
**Figure 5-1:** DO levels (surface and middle level) at mid-ebb tide in June 2006



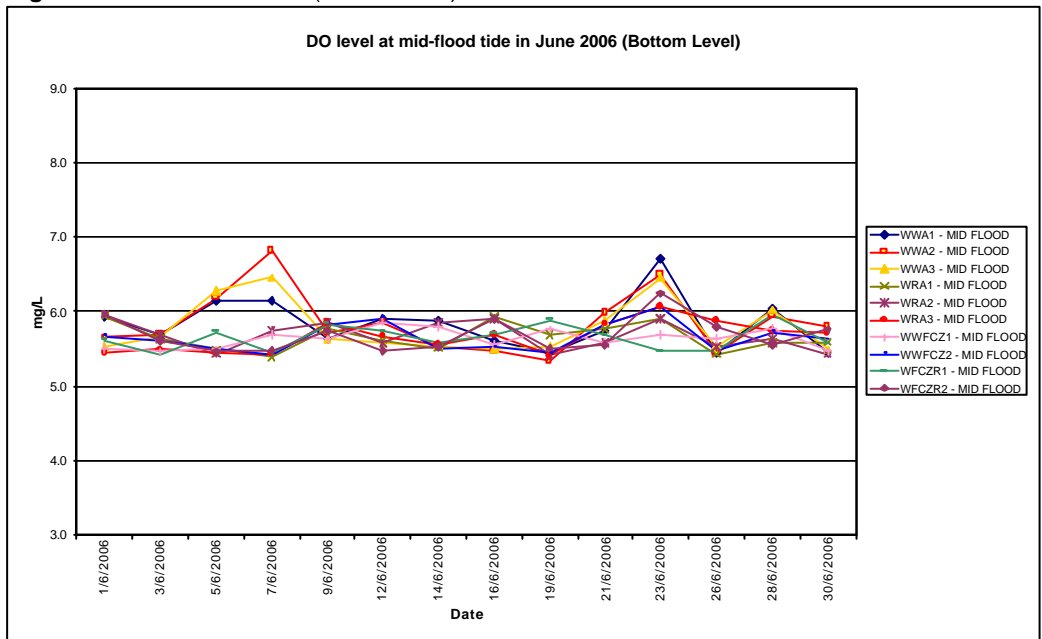
**Figure 5-2:** DO levels (bottom level) at mid-ebb tide in June 2006



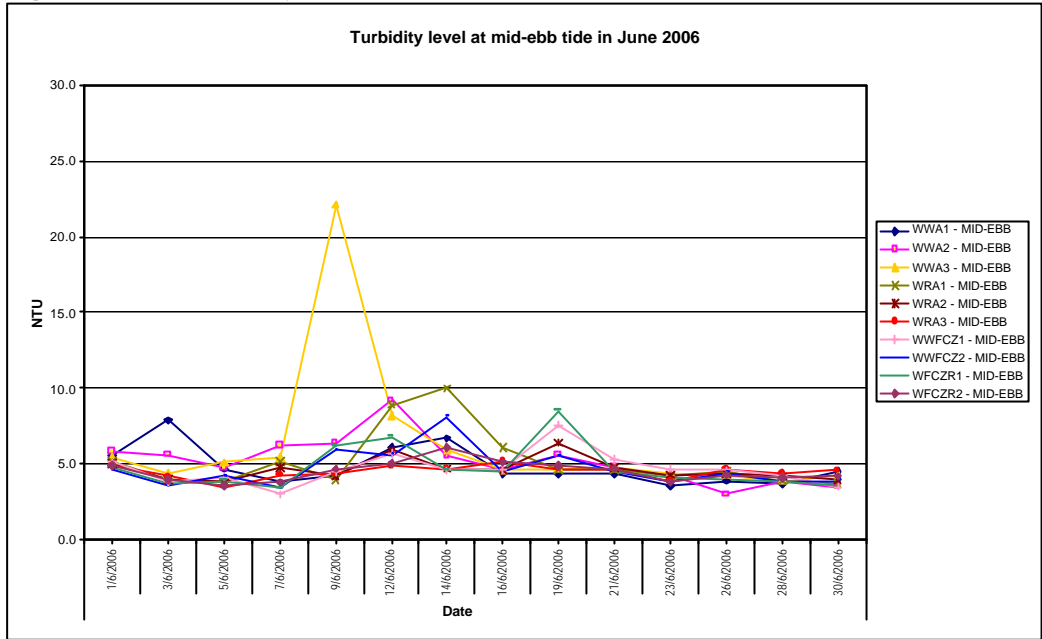
**Figure 5-3:** DO levels (surface and middle level) at mid-flood tide in June 2006



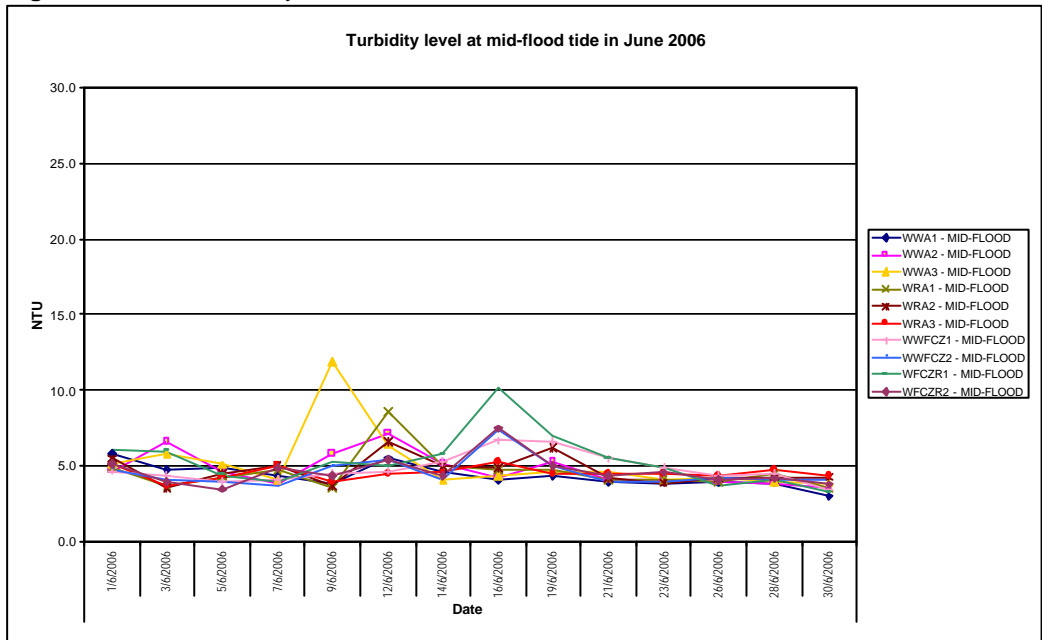
**Figure 5-4:** DO levels (bottom level) at mid-flood tide in June 2006



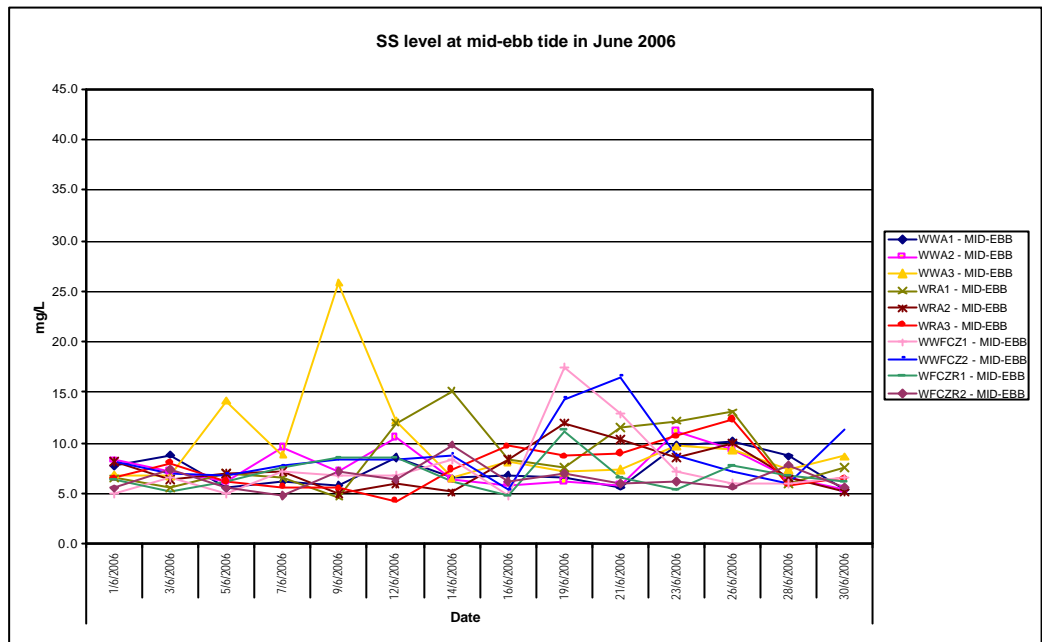
**Figure 5-5:** Turbidity levels at mid-ebb tide in June 2006



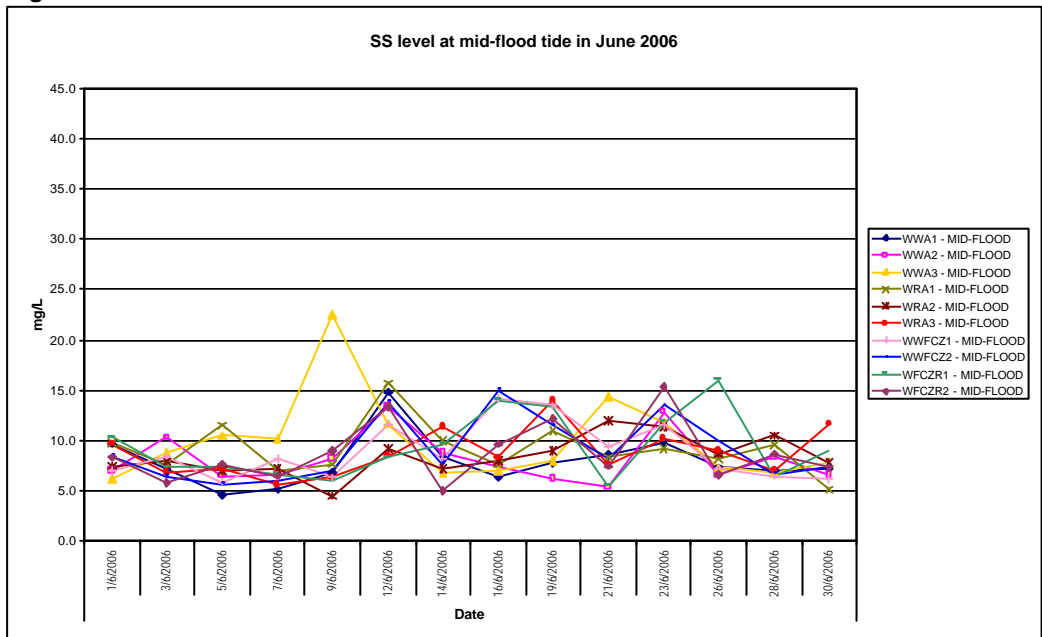
**Figure 5-6:** Turbidity levels at mid-flood tide in June 2006



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



**Figure 5-8:** SS levels at mid-flood tide in June 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, 8, 16, 22 and 29 June 2006. The findings of the site audits are summarised in **Table 6-1**.

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

Date of Issue Raised	Observation	Advice from I A	CT's Response / Environmental Outcomes	Closing Date
01 June 2006 (WTLT 019)	1. Stagnant water was observed within the site.	CT was reminded to clear the stagnant water to prevent mosquito breeding.	Agreed with the ET's advice.	8 June 2006
	2. Three oil drums were observed without drip trays near to wheel washing facility.	CT was reminded to provide drip trays to oil drums.	Agreed with the ET's advice.	
	3. Muddy water was observed discharging to the sea from an outfall near to Seawall B.	CT was reminded to provide treatment of site runoff prior to discharging or improve the effectiveness of treatment process.	Agreed with the ET's advice.	
	4. Driptray was observed full of waste oil at bore piling site.	CT was reminded to cover the driptray during rainy days or store the oil drum in chemical storage area.	Agreed with the ET's advice.	
8 June 2006 (WTLT 020)	1. Unpaved area and excavated materials were observed at Carpark.	CT was reminded to provide dust suppression and water quality measures.	Agreed with the ET's advice.	16 June 2006
	2. Two oil drums were observed without driptrays near bore piling site.	CT was reminded to provide driptrays to oil drums.	Agreed with the ET's advice.	
	3. Tree branches were observed at the exit of the bore piling site.	CT was reminded to clear the tree braches.	Agreed with the ET's advice.	
16 June 2006 (WTLT 021)	1. Excavated materials and exposed areas were observed within the site.	CT was reminded to provide dust suppression and water quality measures.	Agreed with the ET's advice.	22 June 2006
	2. Breaking works without spraying of water was observed on Slope A.	CT was reminded to provide dust suppression measures.	Agreed with the ET's advice.	
	3. Silt curtain at Seawall A was disconnected during site inspection.	CT was reminded to reinstate the silt curtain before commencement of marine works.	Agreed with the ET's advice.	



Date of Issue / Raised	Observation	Advice from I A	CT's Response / Environmental Outcomes	Closing Date
	4. Silt was observed accumulated in the desilting facility within the wheel washing facility on Slope A	CT was reminded to conduct regular clearing of the silt.	Agreed with the ET's advice.	
	5. Muddy water was observed discharging to the sea from an outfall near to Seawall B.	CT was reminded to provide treatment of site runoff prior to discharging or improve the effectiveness of treatment process.	Agreed with the ET's advice.	
	6. Rubbish was observed near Seawall A.	CT was reminded to conduct regular clearing of waste.	Agreed with the ET's advice.	
	7. Oil stain was observed on the ground of the bore piling site.	CT was reminded to clear the oil stain.	Agreed with the ET's advice.	
	8. Oil drums were observed without driptrays within Slope A.	CT was reminded to provide driptrays to oil drum.	Agreed with the ET's advice.	
22 June 2006 (WTLT 022)	1. Muddy water was observed at the gap of the silt curtain of Seawall A.	CT was reminded to repair the silt curtain before commencement of marine works.	Agreed with the ET's advice.	29 June 2006
	2. Mud trails were observed on Castle Peak Road near Slop E.	CT was reminded to clear the mud trails.	Agreed with the ET's advice.	
	3. Muddy water was observed at wheel washing facility at Slope E.	CT was reminded to improve the efficiency of the facility.	Agreed with the ET's advice.	
	4. Waste collection bin was observed broken and full of waste.	CT was reminded to replace of the rubbish bin and clear the waste.	Agreed with the ET's advice.	
	5. Watering was not observed for slope stabilisation (soil nail)	CT was reminded to provide watering frequently.	Agreed with the ET's advice.	
29 June 2006 (WTLT 023)	1. Stagnant water was observed within the site.	CT was reminded to clear the stagnant water to prevent mosquito breeding.	Agreed with the ET's advice.	6 July 2006
	2. Silt curtain at Seawall A was disconnected.	CT was reminded to reinstate the silt curtain before commencement of marine works.	Agreed with the ET's advice.	
	3. Muddy water was observed discharging from outfall near Seawall A.	CT was reminded to provide treatment of site runoff prior to discharging or improve the effectiveness of treatment process.	Agreed with the ET's advice.	

Date of Issue / Raised	Observation	Advice from I A	CT's Response / Environmental Outcomes	Closing Date
	4. Muddy water was observed near Seawall B that was suspected due to the damage of silt curtain.	CT was reminded to repair and maintenance of the silt curtain.	Agreed with the ET's advice.	
	5. Rubbish was observed at Seawall B.	CT was reminded to clear the waste frequently,	Agreed with the ET's advice.	
	6. Muddy water was observed discharging to a public drainage system at bore piling site.	CT was reminded to provide treatment of site runoff prior to discharging or improve the effectiveness of treatment process.	Agreed with the ET's advice.	

## 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 June 2006

Type of waste or material	Disposal at	No. of loads or quantities
C&D waste	WENT Landfill	16 tonnes
C&D material	By truck	Public Filling Reception Facility in Tuen Mun Area 38
	By barge	
Chemical waste	Collected by licensed collector	0

In accordance with the Project Profile "Castle Peak Road Improvement between Area 2 and Ka Loon Tsuen, Tsuen Wan, Remaining Works Contract, Construction of Reclamation West of Tsing Lung Tau", all dredged material will be transported by trucks to Public Fill Reception Facility (PFRF) at Tuen Mun Area 38 for ultimate reuse by alternative projects. As the depth of marine water near the reclamation site is found to be sufficient for barges to manoeuvre, the CT proposed to deliver the dredged material by barge to the PFRF. It will reduce the double handling of dredged material to the seashore and then to trucks by backhoe. EPD agreed with the CT's proposal on 18 May 2006 via email. The CT commenced to transport the dredged material by barge on 24 May 2006. The record of disposal of C&D materials by barge in June 2006 is attached in **Appendix E**

## 6.3 Complaint Record

There was no environmental complaint received in June 2006.

## 6.4 Exceedance

There were exceedances of T<sub>by</sub> and SS levels for marine water quality in June 2006 when compared with A/L Levels and baseline check criteria. These exceedances are summarised in **Table 6.3**.

**Table 6-3:** Summary of exceedances of marine water quality monitoring in June 2006

Date	Tide	Location	Exceedances of monitoring data					
			Tby (mg/L)			SS (mg/L)		
			Control Station	Impact Station	Exceedance of	Control Station	Impact Station	Exceedance of
3 Jun	mid-ebb	WWA1	4.0	7.9	Limit Level	-	-	-
5 Jun	mid-ebb	WWA3	-	-	-	6.2	14.2	Baseline check
9 Jun	mid-ebb	WWA3	4.4	22.1	Limit Level	5.5	25.8	Limit Level
9 Jun	mid-flood	WWA3	4.0	11.9	Limit Level	6.3	22.5	Action Level
12 Jun	mid-ebb	WWA2	5.9	9.2	Limit Level	-	-	-
12 Jun	mid-ebb	WWA3	4.9	8.2	Action Level	-	-	-
12 Jun	mid-flood	WWA2	6.6	7.2	Baseline Check	-	-	-
14 Jun	mid-ebb	WWFCZ2	6.1	8.1	Limit Level	-	-	-
19 Jun	mid-ebb	WWFCZ1	-	-	-	11.2	17.5	Baseline Check
19 Jun	mid-ebb	WWFCZ2	-	-	-	7.0	14.3	Baseline Check
21 Jun	mid-ebb	WWFCZ2	-	-	-	6.0	16.5	Baseline Check

No muddy water and abnormal activities which would likely cause deterioration of water quality were observed on 3 and 5 June 2006 by ET's field staff. The exceedances of Tby level at WWA1 on 3 June and SS level at WWA3 on 5 June were only marginal to the Baseline Check Criteria at these two monitoring locations. In addition, there were no exceedances of SS level on 3 June and Tby level on 5 June at all monitoring locations. Hence, the exceedances were unlikely due to the construction works of the Project. Nevertheless, the Contractor has been reminded to monitor the effectiveness of silt curtain and maintain the performance to ensure normal functioning.

On 9 June 2006, it rained heavily and Black Rainstorm Warning was issued. Soil and dirt were washed down from shore to the sea. The exceedances of Tby and SS at WWA3 were unlikely caused by the construction of reclamation in the vicinity of Seawall B, but still related to the Project. The Contractor has been advised to check the integrity and normal functioning of the construction methods and mitigation measures especially the silt curtains. In addition, 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.

Similarly, heavy rain was observed occasionally on 12 June 2006. Soil and dirt were washed down from shore to the sea. The exceedances of Tby at WWA2 and WWA3 were unlikely caused by the construction of reclamation in the vicinity of Seawall B, but still related to the Project.

The exceedances of Tby and SS levels recorded at WWFCZ1 and WWFCZ2 on 14, 19 and 21 June 2006 were also unlikely due to construction activities of the Project as no muddy water and abnormal activities which would likely cause deterioration of water quality were observed at monitoring stations by ET's field staff. In addition, the exceedances contributed by the nearby monitoring stations would be unlikely due to their normal Tby or SS levels.

## 6.5 Notification of Summons and Successful Prosecution

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

## 6.6 Environmental Licenses

A summary of the valid environmental licenses is given in **Table 6-4**. Two Construction Noise Permits (CNP) were granted in June 2006 and are attached in **Appendix F**.

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

Type of Licence	Referenc 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
Delivery of C&D Materials to PFRF at Tuen Mun Area 38 by Barge	Application No.: CEDD00087 Billing Account No.: 5005407	12 May 2006	15 Aug 2006
Construction Noise Permit	GW-RW0326-06	9 June 2006	8 December 2006
Construction Noise Permit	GW-RW0349-06	23 June 2006	22 December 2006

## 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, which triggered the Event and Action Plan for remedial action. With the remedial work implemented in progress, the subsequent results of marine water quality monitoring indicated resumption of normal ambient conditions was achieved.

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 handling of chemical waste.

The CT continued to deliver dredged materials by barge and vehicles to PFRF at Tuen Mun Area 38 during the reporting period.

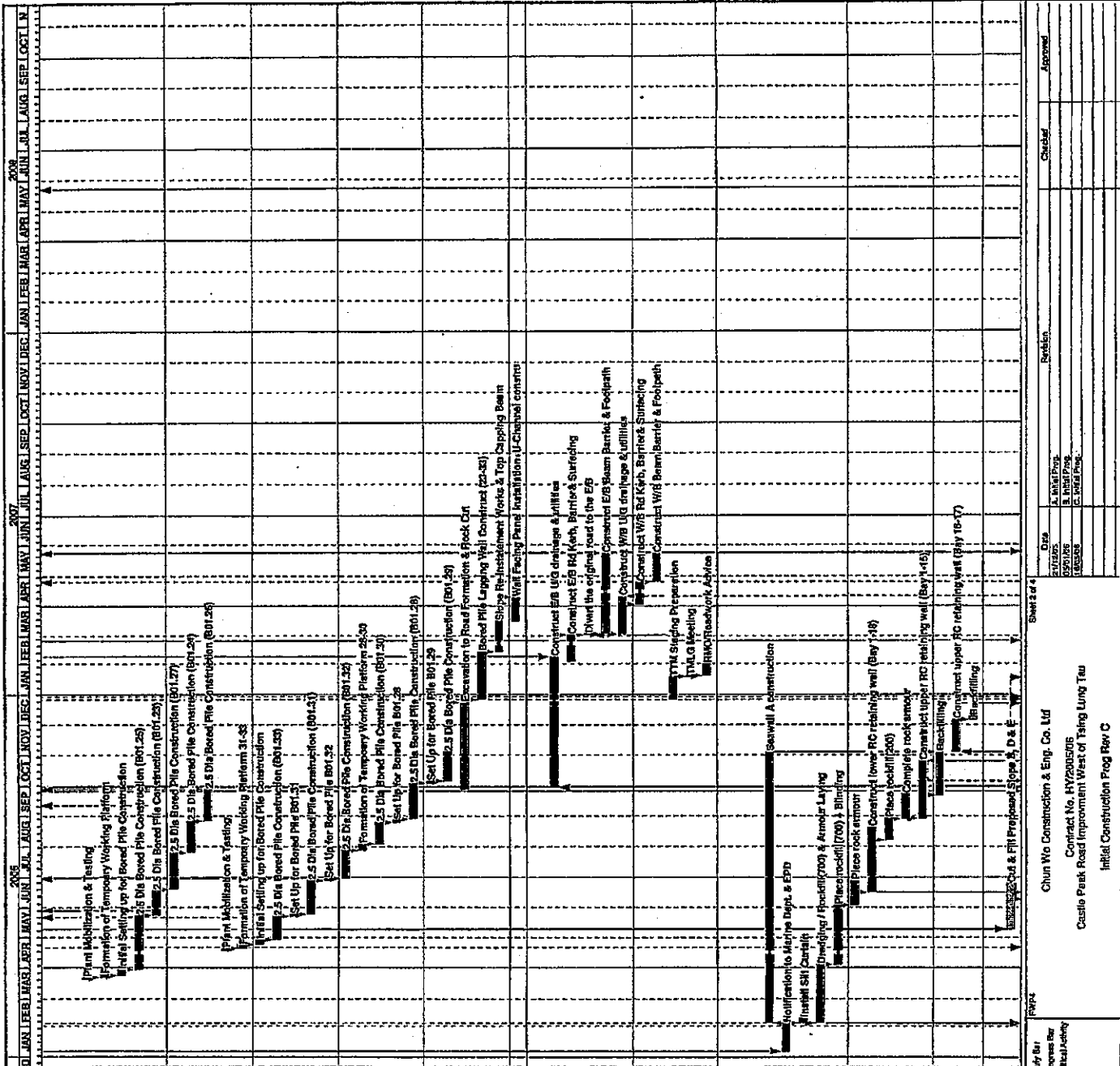
## 8 References

- [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**

---



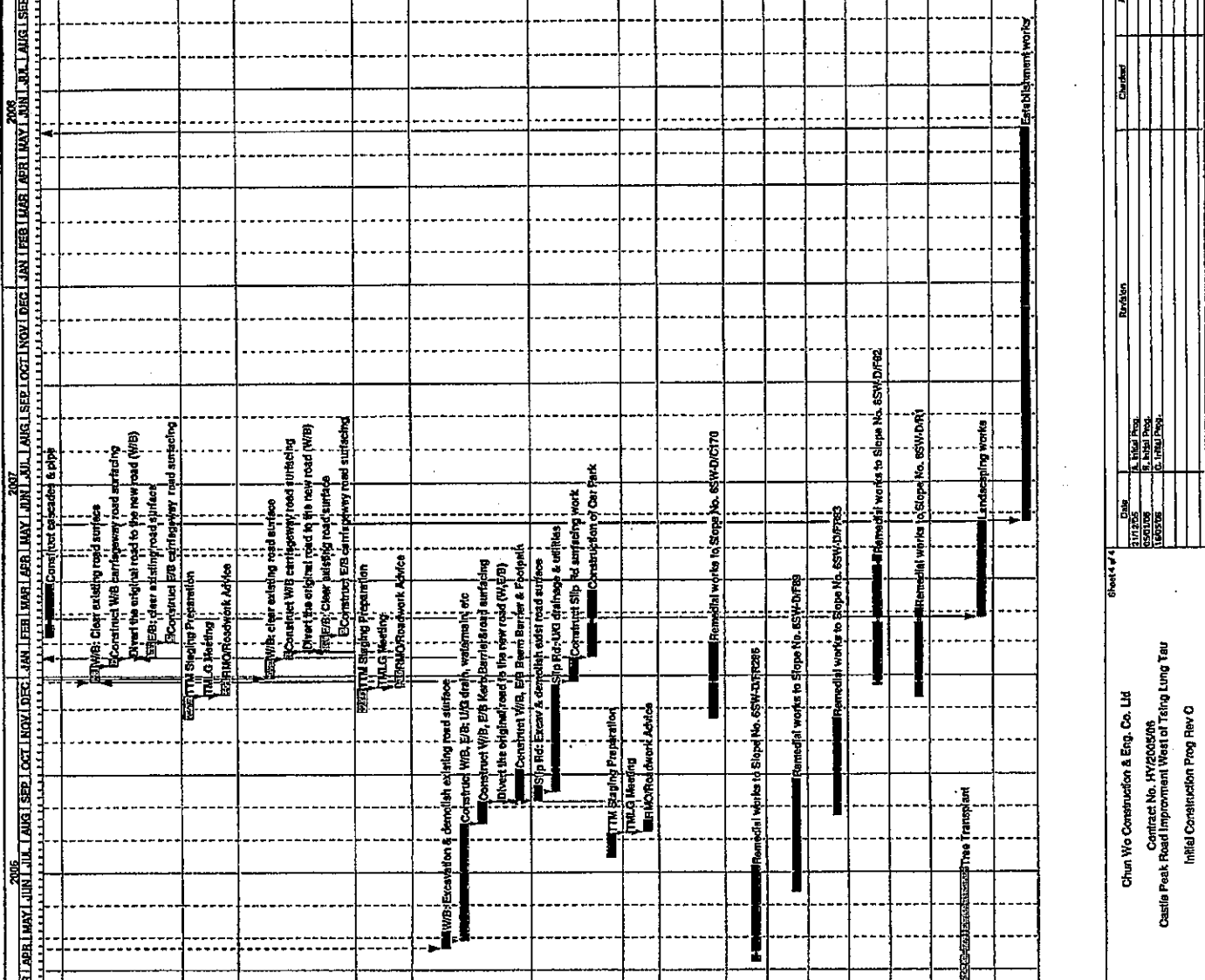


Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
<b>Bored Pile Retaining Wall Construction</b>				
Bored Pile Construction - B01.25 - B01.33				
4BP3000	Plant Mobilization & Testing	2	20/03/08	21/03/08
4BP3010	Formulation of Temporary Working Platform	3	22/03/08	24/03/08
4BP3020	Initial Setting up for Bored Pile Construction	5	24/03/08	29/03/08
4BP3030	2.5 Dia Bored Pile Construction (B01.25)	41	30/03/08	23/05/08
4BP3040	2.5 Dia Bored Pile Construction (B01.27)	31	24/05/08	17/06/08
4BP3050	2.5 Dia Bored Pile Construction (B01.27)	31	19/06/08	25/07/08
4BP3060	2.5 Dia Bored Pile Construction (B01.29)	27	26/07/08	25/08/08
4BP3070	2.5 Dia Bored Pile Construction (B01.29)	28	26/08/08	27/09/08
4BP3080	Plant Mobilization & Testing	2	18/04/08	19/04/08
4BP3090	Formulation of Temporary Working Platform 31-33	3	20/04/08	22/04/08
4BP3100	Initial Setting up for Bored Pile Construction	5	24/04/08	29/04/08
4BP3110	2.5 Dia Bored Pile Construction (B01.33)	19	29/04/08	22/05/08
4BP3115	Set Up for Bored Pile B01.31	2	23/05/08	24/05/08
4BP3120	2.5 Dia Bored Pile Construction (B01.31)	29	25/05/08	27/06/08
4BP3125	Set Up for Bored Pile B01.32	2	29/05/08	29/05/08
4BP3130	2.5 Dia Bored Pile Construction (B01.32)	23	30/05/08	27/07/08
4BP3131	Formulation of Temporary Working Platform 29-30	5	29/07/08	02/08/08
4BP3132	2.5 Dia Bored Pile Construction (B01.30)	19	02/08/08	24/08/08
4BP3133	Set Up for Bored Pile B01.28	2	25/08/08	26/08/08
4BP3134	2.5 Dia Bored Pile Construction (B01.28)	31	28/08/08	09/10/08
4BP3135	Set Up for Bored Pile B01.29	2	04/10/08	05/10/08
4BP3136	2.5 Dia Bored Pile Construction (B01.29)	23	06/10/08	03/11/08
4BP3150	Excavation to Road Formation & Pile Cut	71	28/09/08	20/12/08
4BP3160	Bored Pile Lapping Wall Construct (23-31)	40	27/12/08	12/02/09
4BP3170	Slope Re-instatement Works & Top Capping Beam	22	19/02/09	15/03/09
4BP3180	Wall Facing Panel Installation U-Channel constr	20	19/03/09	08/04/09
<b>Roadworks Construction</b>				
4RW4100	Construct E/B U/G drainage & utilities	103	30/03/08	07/06/09
4RW4110	Construct E/B Rd Kerb, Barriera & Surfacing	18	02/02/09	09/03/09
4RW4120	Down the original road to the E/B	1	02/03/09	02/03/09
4RW4130	Construct E/B Beam Barrier & Footpath	65	03/03/09	23/05/09
4RW4140	Construct W/B U/G drainage & utilities	29	03/03/09	10/04/09
4RW4150	Construct W/B Rd Kerb, Barriera & Surfacing	16	03/04/09	24/04/09
4RW41615	Construct W/B Beam Barrier & Footpath	24	25/04/09	23/05/09
4RW41620	T/M Staging Preparation	19	27/12/08	16/01/09
4RW41630	T/M/G Meeting	1	18/01/09	19/01/09
4RW41640	RMC/Trackwork Advice	10	20/01/09	31/01/09
<b>Area 3 Construction (Ch1#825 to Ch2#030)</b>				
<b>Seawall A Construction</b>				
3SWA0520	Seawall A construction	225	04/02/08	03/11/08
3SWA0600	Modification to Marine Dept. & EPD	28	07/01/08	03/02/08
3SWA1000	Install SH Curbside	4	04/02/08	08/02/08
3SWA1100	Drainage / Rockfill (700) & Armour Laying	50	04/02/08	03/04/08
3SWA1100	Place rockfill (700) & Blinding	49	04/04/08	02/06/08
3SWA1200	Place rock armour	21	02/05/08	27/06/08
3SWA1300	Construct lower RC retaining wall (Bay 1-18)	55	16/05/08	19/08/08
3SWA1400	Place rockfill (200)	20	07/08/08	29/08/08
3SWA1500	Complete rock armour	22	29/08/08	27/09/08
3SWA1600	Construct upper RC retaining wall (Bay 1-15)	47	30/08/08	25/10/08
3SWA1700	Blinding	34	22/08/08	05/11/08
3SWA1800	Construct upper RC retaining wall (Bay 16-17)	28	04/11/08	06/12/08
3SWA1900	Blinding	3	07/12/08	09/12/08
<b>Slope Works</b>				
3SW1000	Cut & Fill Proposed Slope B, D & E	40	09/05/08	24/06/08





Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
30F2200	Construct cascades & pipe	40	07/20/07	30/03/07
<b>Area 1 Construction (Ch1+600 to Ch1+705)</b>				
5RW0500	WB: Clear existing road surface	12	27/12/05	10/01/07
5RW1500	Construct WB carriageway road surfacing	6	17/01/07	17/01/07
5RW2000	Divert the original road to the new road (WB)	1	18/01/07	18/01/07
5RW2500	EB: Clear existing road surface	12	19/01/07	01/02/07
5RW3500	Construct EB carriageway road surfacing	6	03/02/07	03/02/07
5RW3510	TM Staging Preparation	19	20/11/06	03/12/06
5RW3520	TM LG Meeting	1	14/12/06	14/12/06
5RW3530	RM/Roadwork Advice	10	15/12/06	23/12/06
<b>Area 6 Construction (Ch2+300 to Ch2+400)</b>				
6RW0500	WB: Clear existing road surface	14	30/12/06	16/01/07
6RW1500	Construct WB carriageway road surfacing	6	17/01/07	23/01/07
6RW2000	Divert the original road to the new road (WB)	1	24/01/07	24/01/07
6RW2500	EB: Clear existing road surface	12	25/01/07	07/02/07
6RW3500	Construct EB carriageway road surfacing	6	08/02/07	14/02/07
6RW3510	TM Staging Preparation	19	20/11/06	19/12/06
6RW3520	TM LG Meeting	1	12/12/06	21/12/06
6RW3530	RM/Roadwork Advice	10	22/12/06	05/01/07
<b>Area 2 Construction (Ch1+705 to Ch1+825)</b>				
1RW0500	WB: Excavation & demolish existing road surface	12	18/04/06*	06/05/06
1RW1000	Construct WB, EB, U/G drain, watermain, etc	90	28/04/06	15/06/06
1RW1500	Construct WB, EB Kerb/Barriers/road surfacing	18	18/06/06	05/08/06
1RW2000	Divert the original road to the new road (WB/EB)	1	05/09/06	06/09/06
1RW2010	Construct WB, EB Beam Barrier & Footpath	24	07/09/06	05/10/06
1RW2500	Slip Rd Excav & demolish existing road surface	12	07/09/06	20/09/06
1RW3000	Slip Rd U/G drainage & utilities	82	19/09/06	23/12/06
1RW3500	Construct Slip Rd surfacing work	18	27/12/06	17/01/07
1RW100500	Construction of Car Park	50	18/01/07	22/03/07
1RW3510	TM Staging Preparation	19	15/07/06	05/08/06
1RW3520	TM LG Meeting	1	07/08/06	07/08/06
1RW3530	RM/Roadwork Advice	10	08/08/06	18/08/06
<b>Slope Remedial Works</b>				
6SW2000	Remedial works to Slope No. 6SW-D/C170	57	22/11/06	31/01/07
6SW3500	Remedial works to Slope No. 6SW-D/FR288	70	08/04/06	03/07/06
6SW4000	Remedial works to Slope No. 6SW-D/FR59	80	13/06/06	26/09/06
6SW5000	Remedial works to Slope No. 6SW-D/FR183	75	23/03/06	21/11/06
6SW5500	Remedial works to Slope No. 6SW-D/FR2	97	22/12/06	23/01/07
6SW6000	Remedial works to Slope No. 6SW-D/FR1	65	12/12/06	03/02/07
<b>Section II - Landscaping Works</b>				
1RW1000	Tree Transplant	120	05/12/06*	04/07/06
1RW1000	Landscaping works	90	24/02/07	24/05/07
<b>Section III - Establishment Period</b>				
EP1000	Establishment works	365	28/06/07	23/05/08



27 Primavera Systems, Inc.

Start Date: 21/12/05  
 Finish Date: 23/05/08  
 Print Date: 24/09/07 12:52

Early Bar  
 Progress Bar  
 Critical Activity

Sheet 4 of 4

Chun Wo Conservation & Eng. Co. Ltd  
 Contract No. HY2005/08  
 Castle Peak Road Improvement West of Tsing Lung Tau  
 Initial Construction Prog Rev 0

Drawn	Checked	Approved
A. Ngai (AW)		
B. Chiu (BC)		
C. Ip (CI)		

Appendix B  
**Monitoring schedule for  
June and July 2006**

### Environmental Monitoring and Audit Schedule - June 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 Quality monitoring
- Note 4: L&V denotes Landscape and Visual audit and monitoring

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

### Tentative Environmental Monitoring and Audit Schedule - July 2006

Note 1: L30 denotes  $L_{eq}(30min)$  monitoring

Note 2: TSP denotes Total Suspended Particulate monitoring

Note 3: MV denotes marine water monitoring

Note 4: L&V denotes Landscape and Visual audit and monitoring

Jul-2006						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
2	3	4	5	6	7	8
9	MW 10	11	MW 12	13	MW 14	15
16	MW 17	18	MW 19	20	MW 21	22
23	MW 24	25	MW 26	27	MW 28	29
30	MW 31		MW		MW	

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 000072  
Page No. : 1 of 5  
Issue Date : 20/02/2006

Received Date : 16/02/2006  
Approved Signatory : Grace Ting  
Remarks :

Completion Date : 18/02/2006

### 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 : 16/02/2006

Results: :

#### Salinity

Expected Reading (ppt)	Recorded Reading (ppt)
0	0
7.4	7.3
15	14.4
35	33.8
39.3	37.7

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 000072  
Page No. : 2 of 5  
Issue Date : 20/02/2006

Received Date : 16/02/2006  
Approved Signatory : Grace Ting  
Remarks :

Completion Date : 18/02/2006

### Calibration Results:

Item : YSI Model 85 Handheld Salinity, Conductivity & Temperature Instrument

Serial No. : 02D1076 AB

Calibration Method : In house method

Date of Calibration : 17/02/2006

Results: :

#### Temperature

Expected Reading (°C)	Recorded Reading (°C)
10.0	9.5
20.0	19.8
30.0	29.5
40.0	39.5

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 000072  
Page No. : 3 of 5  
Issue Date : 20/02/2006

Received Date : 16/02/2006  
Approved Signatory : Grace Ting  
Remarks :

Completion Date : 18/02/2006

### Calibration Results:

Item : YSI Model 85 Handheld Salinity, Conductivity & Temperature Instrument

Serial No. : 99G0526

Calibration Method : APHA 18e 4500-O A, B, C & D

Date of Calibration : 16/02/2006

Results: :

#### Dissolved Oxygen

Expected Reading (mg/L)	Recorded Reading (mg/L)
2.90	3.10
5.00	5.14
6.70	6.88
7.70	7.90
8.60	8.74

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 000072  
Page No. : 4 of 5  
Issue Date : 20/02/2006

Received Date : 16/02/2006  
Approved Signatory : Grace Ting  
Remarks :

Completion Date : 18/02/2006

### Calibration Results:

Item : HACH 2100P Turbidimeter

Serial No. : 011100024354

Calibration Method : APHA 18e 2130 B

Date of Calibration : 16/02/2006

Results: :

#### Turbidity

Expected Reading (NTU)	Recorded Reading (NTU)
0	0
2	2.18
4	4.38
16	16.8
40	41.3
80	83.4

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 000072  
Page No. : 5 of 5  
Issue Date : 20/02/2006

Received Date : 16/02/2006  
Approved Signatory : Grace Ting  
Remarks :

Completion Date : 18/02/2006

### Calibration Results:

Item : HANNA instrument HI 98128 membrane pH meter

Serial No. : 1377140

Calibration Method : In house method

Date of Calibration : 17/02/2006

Results: :

#### pH

Expected Reading (pH unit)	Recorded Reading (pH unit)
4	4.50
7	7.65
10	10.75

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 - June**

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L	Average value	DO, % saturation	pH, Unit	Salinity, ppt	Turbidity, NTU	Averaged Value	Suspended Solid, mg/L	Averaged Value	
1	WWA1	S	MID-EBB	1-Jun-06	15:53	9.70	26.3	5.58	5.59	82.1	81.7	8.2	14.3	5.5	5.7	8.5	
2	WWA1	M	MID-EBB	1-Jun-06			26.2	6.05	6.07	5.82	81.1	80.9	8.2	14.8	5.8	5.4	8.0
3	WWA1	B	MID-EBB	1-Jun-06			26.1	6.62	6.55	6.59	92.3	90.3	8.2	15.4	5.4	6.0	6.5
4	WWA2	S	MID-EBB	1-Jun-06	15:42	7.60	26.4	5.75	5.65	86.9	84.3	8.2	15.0	4.7	5.1	5.3	
5	WWA2	M	MID-EBB	1-Jun-06			26.3	6.03	5.90	5.83	89.3	87.0	8.1	15.5	6.8	6.4	11.0
6	WWA2	B	MID-EBB	1-Jun-06			26.2	6.02	6.05	6.04	90.5	88.0	8.2	15.8	5.7	6.0	8.5
7	WWA3	S	MID-EBB	1-Jun-06	15:30	8.00	26.7	5.96	5.83	88.2	86.1	8.1	15.1	5.5	5.5	7.5	
8	WWA3	M	MID-EBB	1-Jun-06			26.2	5.62	5.57	5.75	85.0	84.6	8.1	16.6	6.0	6.1	4.5
9	WWA3	B	MID-EBB	1-Jun-06			26.0	5.75	5.65	5.70	89.5	86.9	8.1	20.0	4.9	4.6	8.5
10	WRA1	S	MID-EBB	1-Jun-06	16:10	26.50	26.3	5.75	5.66	82.8	81.4	8.2	19.6	5.7	5.7	7.0	
11	WRA1	M	MID-EBB	1-Jun-06			26.1	5.53	5.60	5.64	83.2	81.3	8.2	17.2	5.4	5.6	7.0
12	WRA1	B	MID-EBB	1-Jun-06			26.0	5.45	5.51	5.48	83.4	81.3	8.2	22.2	4.5	4.4	5.5
13	WRA2	S	MID-EBB	1-Jun-06	16:24	29.60	26.4	6.02	5.92	91.7	87.3	8.1	13.9	6.1	5.9	8.0	
14	WRA2	M	MID-EBB	1-Jun-06			26.0	5.57	5.49	5.75	88.6	84.9	8.1	21.4	4.1	4.1	7.5
15	WRA2	B	MID-EBB	1-Jun-06			25.7	5.60	5.55	5.58	85.6	84.1	8.1	28.8	5.2	4.7	9.0
16	WRA3	S	MID-EBB	1-Jun-06	16:38	26.00	26.4	5.53	5.60	86.6	85.0	8.1	13.7	5.2	5.4	6.5	
17	WRA3	M	MID-EBB	1-Jun-06			25.9	5.44	5.48	5.51	86.5	84.2	8.1	24.2	4.0	4.2	6.5
18	WRA3	B	MID-EBB	1-Jun-06			25.7	5.62	5.50	5.56	86.5	83.5	8.2	28.3	5.1	5.4	6.5
19	WWFCZ1	S	MID-EBB	1-Jun-06	17:07	38.80	26.6	5.68	5.66	84.6	86.6	8.1	12.8	5.3	5.6	5.5	
20	WWFCZ1	M	MID-EBB	1-Jun-06			26.2	5.81	5.74	5.72	82.9	84.0	8.1	24.3	5.4	5.5	5.5
21	WWFCZ1	B	MID-EBB	1-Jun-06			25.8	5.61	5.53	5.57	85.8	85.3	8.1	27.3	4.2	4.6	4.0
22	WWFCZ2	S	MID-EBB	1-Jun-06	17:19	32.00	26.6	5.97	5.89	83.2	81.8	8.2	12.7	5.7	5.5	8.0	
23	WWFCZ2	M	MID-EBB	1-Jun-06			26.5	5.93	5.95	5.94	81.0	80.5	8.2	19.8	3.8	3.8	9.5
24	WWFCZ2	B	MID-EBB	1-Jun-06			26.0	5.52	5.51	5.52	81.6	80.1	8.2	21.9	4.5	4.4	7.0
25	WFCZR1	S	MID-EBB	1-Jun-06	17:30	47.20	26.6	6.17	6.08	91.7	88.7	8.2	12.8	5.3	5.5	7.0	
26	WFCZR1	M	MID-EBB	1-Jun-06			26.2	5.43	5.41	5.77	90.3	86.6	8.2	19.3	4.9	4.9	6.0
27	WFCZR1	B	MID-EBB	1-Jun-06			23.1	5.71	5.63	5.67	89.2	86.2	8.2	23.6	4.2	4.0	6.0
28	WFCZR2	S	MID-EBB	1-Jun-06	16:55	39.40	26.5	5.62	5.58	89.2	85.6	8.1	12.5	5.0	5.5	4.5	
29	WFCZR2	M	MID-EBB	1-Jun-06			25.8	5.89	5.73	5.71	84.5	83.9	8.1	28.4	3.9	3.9	8.0
30	WFCZR2	B	MID-EBB	1-Jun-06			25.7	5.60	5.55	5.58	84.4	81.2	8.1	28.9	5.2	5.6	4.0
31	WWA1	S	MID-FLOOD	1-Jun-06			26.3	5.73	5.70	86.2	84.2	8.2	13.1	5.4	5.4	12.5	

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L	Average value	DO, % saturation	pH, Unit	Salinity, ppt	Turbidity, NTU	Averaged Value	Suspended Solid, mg/L	Averaged Value	
32	WWA1	M	MID-FLOOD	1-Jun-06	10:32	18.40	26.1	5.56	5.50	5.62	84.4	82.1	8.2	18.0	6.3	5.8	8.5
33	WWA1	B	MID-FLOOD	1-Jun-06			26.1	5.95	5.88	5.92	86.2	85.2	8.2	16.8	6.0	5.7	8.0
34	WWA2	S	MID-FLOOD	1-Jun-06			26.3	5.80	5.70		88.0	84.6	8.1	13.2	5.3	5.4	6.0
35	WWA2	M	MID-FLOOD	1-Jun-06	10:42	10.80	26.1	5.62	5.56	5.67	86.1	86.4	8.1	18.1	5.1	4.9	8.5
36	WWA2	B	MID-FLOOD	1-Jun-06			26.0	5.71	5.59	5.65	86.7	84.7	8.1	20.9	3.9	3.8	6.5
37	WWA3	S	MID-FLOOD	1-Jun-06			26.3	5.68	5.56		88.0	85.5	8.2	13.2	6.0	6.2	8.0
38	WWA3	M	MID-FLOOD	1-Jun-06	10:54	8.70	26.0	5.77	5.71	5.68	87.1	84.7	8.2	21.0	4.8	5.2	3.5
39	WWA3	B	MID-FLOOD	1-Jun-06			25.9	5.58	5.46	5.52	84.9	84.5	8.2	20.7	4.6	4.5	7.0
40	WRA1	S	MID-FLOOD	1-Jun-06			26.2	5.89	5.66		84.0	83.0	8.3	13.4	6.2	6.3	10.0
41	WRA1	M	MID-FLOOD	1-Jun-06	10:20	33.30	25.8	5.74	5.70	5.75	86.0	82.5	8.3	24.2	4.3	4.4	10.5
42	WRA1	B	MID-FLOOD	1-Jun-06			25.8	5.95	5.93	5.94	86.8	86.0	8.3	24.7	4.1	4.4	8.8
43	WRA2	S	MID-FLOOD	1-Jun-06			26.1	5.45	5.40		84.1	81.7	8.1	13.8	5.5	5.4	7.5
44	WRA2	M	MID-FLOOD	1-Jun-06	10:08	32.10	25.8	5.68	5.60	5.53	87.5	84.1	8.1	24.5	4.2	5.1	6.0
45	WRA2	B	MID-FLOOD	1-Jun-06			25.6	5.95	5.99	5.97	88.6	86.8	8.1	30.0	6.4	6.5	9.0
46	WRA3	S	MID-FLOOD	1-Jun-06			26.1	6.04	5.93		91.3	88.0	8.2	13.8	5.5	5.8	6.0
47	WRA3	M	MID-FLOOD	1-Jun-06	9:55	27.30	25.8	5.53	5.49	5.75	87.0	83.8	8.2	26.1	4.6	4.2	10.0
48	WRA3	B	MID-FLOOD	1-Jun-06			25.6	5.39	5.48	5.44	82.7	82.8	8.2	29.9	5.2	5.1	13.0
49	WWFCZ1	S	MID-FLOOD	1-Jun-06			26.2	5.81	5.71		87.7	84.7	8.0	13.0	5.7	5.4	6.5
50	WWFCZ1	M	MID-FLOOD	1-Jun-06	9:13	38.70	25.8	5.66	5.62	5.70	86.9	85.0	8.0	27.4	4.0	4.2	5.5
51	WWFCZ1	B	MID-FLOOD	1-Jun-06			25.6	5.46	5.54	5.50	85.0	82.1	8.0	29.2	4.8	4.3	9.0
52	WWFCZ2	S	MID-FLOOD	1-Jun-06			26.3	5.68	5.62		84.1	81.8	8.2	13.3	4.9	5.1	8.5
53	WWFCZ2	M	MID-FLOOD	1-Jun-06	9:39	36.10	25.8	5.45	5.50	5.56	92.4	88.0	8.2	26.7	4.4	4.6	10.0
54	WWFCZ2	B	MID-FLOOD	1-Jun-06			25.7	5.69	5.64	5.67	86.6	85.2	8.2	28.9	5.4	4.5	7.0
55	WFCZR1	S	MID-FLOOD	1-Jun-06			26.3	6.35	6.14		80.6	82.3	8.1	15.5	6.0	5.9	8.0
56	WFCZR1	M	MID-FLOOD	1-Jun-06	9:00	40.00	26.1	5.80	5.82	6.03	81.9	79.9	8.1	20.5	6.4	5.8	11.0
57	WFCZR1	B	MID-FLOOD	1-Jun-06			25.8	5.60	5.64	5.62	89.8	86.2	8.1	29.3	6.4	6.3	12.0
58	WFCZR2	S	MID-FLOOD	1-Jun-06			26.2	5.50	5.59		81.8	80.2	8.1	12.7	6.2	6.5	7.0
59	WFCZR2	M	MID-FLOOD	1-Jun-06	9:27	43.60	26.0	5.78	5.76	5.66	86.4	83.2	8.1	22.8	4.3	4.7	9.0
60	WFCZR2	B	MID-FLOOD	1-Jun-06			25.7	6.00	5.94	5.97	89.5	87.6	8.1	29.5	4.8	4.9	9.0

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

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L	Average value	DO, % saturation	pH, Unit	Salinity, ppt	Turbidity, NTU	Averaged Value	Suspended Solid, mg/L	Averaged Value	
61	WWA1	S	MID-EBB	3-Jun-06	17:53	7.00	26.4	6.09	6.02	94.0	91.6	8.2	14.0	4.9	5.2	3.5	
62	WWA1	M	MID-EBB	3-Jun-06			26.3	5.84	5.67	5.91	92.6	91.0	8.1	16.4	9.8	9.4	11.0
63	WWA1	B	MID-EBB	3-Jun-06			26.3	6.12	6.01	6.07	93.3	90.5	8.1	18.1	6.9	9.4	12.0
64	WWA2	S	MID-EBB	3-Jun-06	18:05	10.00	26.5	6.18	6.10	92.6	89.8	8.1	13.9	4.4	4.7	4.0	
65	WWA2	M	MID-EBB	3-Jun-06			26.4	6.04	5.98	6.08	89.9	88.9	8.1	16.6	7.1	7.3	8.5
66	WWA2	B	MID-EBB	3-Jun-06			26.0	5.67	5.53	5.60	93.3	90.4	8.1	25.5	5.1	5.3	9.0
67	WWA3	S	MID-EBB	3-Jun-06	18:15	6.40	26.4	6.04	5.93	88.8	87.8	8.2	14.5	4.2	3.8	5.5	
68	WWA3	M	MID-EBB	3-Jun-06			26.2	5.76	5.71	5.86	88.6	86.0	8.2	18.7	4.2	4.3	7.5
69	WWA3	B	MID-EBB	3-Jun-06			26.2	5.96	5.80	5.88	90.7	87.8	8.2	18.5	5.1	5.1	7.0
70	WRA1	S	MID-EBB	3-Jun-06	17:43	36.90	26.3	5.92	5.80	90.7	88.0	8.1	14.0	4.4	4.4	6.0	
71	WRA1	M	MID-EBB	3-Jun-06			26.7	5.60	5.49	5.70	89.3	87.3	8.1	30.5	4.6	4.3	4.0
72	WRA1	B	MID-EBB	3-Jun-06			25.7	5.53	5.46	5.50	91.9	88.2	8.1	29.1	3.2	3.2	6.5
73	WRA2	S	MID-EBB	3-Jun-06	17:31	26.40	26.4	5.88	5.84	94.2	91.9	8.1	14.3	4.0	4.2	3.3	
74	WRA2	M	MID-EBB	3-Jun-06			25.7	5.48	5.43	5.66	92.7	89.2	8.1	29.5	3.9	3.9	6.0
75	WRA2	B	MID-EBB	3-Jun-06			25.8	5.68	5.76	5.72	92.4	88.6	8.1	12.7	3.9	4.2	10.0
76	WRA3	S	MID-EBB	3-Jun-06	17:20	28.20	26.4	6.03	5.90	94.5	91.7	8.1	15.1	4.3	4.1	9.0	
77	WRA3	M	MID-EBB	3-Jun-06			25.7	5.49	5.55	5.74	90.9	87.4	8.1	29.1	4.1	4.1	7.0
78	WRA3	B	MID-EBB	3-Jun-06			25.7	5.44	5.42	5.43	92.5	89.8	8.1	29.5	4.1	4.6	8.0
79	WWFCZ1	S	MID-EBB	3-Jun-06	16:55	39.40	26.3	6.15	6.05	94.2	90.8	8.3	14.2	3.6	3.5	4.5	
80	WWFCZ1	M	MID-EBB	3-Jun-06			25.7	5.59	5.51	5.83	93.3	89.6	8.3	28.6	4.1	4.2	7.5
81	WWFCZ1	B	MID-EBB	3-Jun-06			25.8	5.66	5.50	5.54	90.2	87.1	8.2	28.9	3.5	3.9	6.5
82	WWFCZ2	S	MID-EBB	3-Jun-06	16:42	35.20	26.3	6.08	5.95	96.8	94.0	8.2	14.6	4.0	4.2	8.5	
83	WWFCZ2	M	MID-EBB	3-Jun-06			25.9	5.91	5.88	5.96	91.3	87.7	8.2	29.6	3.3	3.7	6.5
84	WWFCZ2	B	MID-EBB	3-Jun-06			25.7	5.52	5.41	5.47	95.2	94.2	8.2	30.2	3.1	3.3	6.0
85	WFCZR1	S	MID-EBB	3-Jun-06	16:30	44.00	26.6	6.06	5.94	91.0	88.3	8.2	14.9	3.6	3.7	4.5	
86	WFCZR1	M	MID-EBB	3-Jun-06			25.9	5.56	5.49	5.76	93.5	90.8	8.2	29.5	3.3	3.0	5.0
87	WFCZR1	B	MID-EBB	3-Jun-06			25.7	5.50	5.61	5.56	86.8	84.8	8.2	31.0	4.2	4.4	6.0
88	WFCZR2	S	MID-EBB	3-Jun-06	17:08	42.50	26.3	6.15	6.01	92.5	89.6	8.2	13.5	3.7	3.9	7.0	
89	WFCZR2	M	MID-EBB	3-Jun-06			25.8	5.60	5.55	5.83	80.7	86.9	8.2	27.4	3.9	3.7	5.0
90	WFCZR2	B	MID-EBB	3-Jun-06			25.6	5.72	5.59	5.66	83.6	80.6	8.2	30.8	4.4	4.5	10.0

G:\env\project\24583\env\_data\Marine\06-06 - Data

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

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L	Average value	DO, % saturation	pH, Unit	Salinity, ppt	Turbidity, NTU	Averaged Value	Suspended Solid, mg/L	Averaged Value	
91	WWA1	S	MID-FLOOD	3-Jun-06	11:21	10.20	26.4	5.70	5.64	83.5	81.4	8.2	13.1	4.2	4.3	5.0	
92	WWA1	M	MID-FLOOD	3-Jun-06			26.2	5.50	5.56	5.60	85.6	82.6	8.2	20.2	5.2	5.2	9.0
93	WWA1	B	MID-FLOOD	3-Jun-06			26.2	5.70	5.67	5.69	91.1	88.6	8.2	17.2	5.1	4.7	7.5
94	WWA2	S	MID-FLOOD	3-Jun-06	11:10	9.00	26.3	5.93	5.77	90.2	86.9	8.2	13.6	8.2	7.6	6.5	
95	WWA2	M	MID-FLOOD	3-Jun-06			26.2	5.65	5.60	5.74	92.9	87.9	8.2	15.7	6.9	6.9	12.0
96	WWA2	B	MID-FLOOD	3-Jun-06			26.1	5.75	5.64	5.70	92.6	89.4	8.2	20.4	5.0	5.2	12.5
97	WWA3	S	MID-FLOOD	3-Jun-06	11:00	7.20	26.4	5.97	5.83	92.2	87.7	8.2	13.7	5.9	5.5	6.5	
98	WWA3	M	MID-FLOOD	3-Jun-06			26.3	6.10	6.02	5.98	94.1	91.2	8.2	14.9	6.2	5.9	9.0
99	WWA3	B	MID-FLOOD	3-Jun-06			26.1	5.69	5.60	5.65	88.6	85.4	8.2	20.4	5.6	5.6	11.0
100	WRA1	S	MID-FLOOD	3-Jun-06	11:35	33.00	26.4	6.07	5.95	91.7	88.3	8.0	12.8	4.8	4.8	7.0	
101	WRA1	M	MID-FLOOD	3-Jun-06			25.8	6.00	5.85	5.97	88.5	85.6	8.0	28.3	3.0	3.3	7.5
102	WRA1	B	MID-FLOOD	3-Jun-06			25.8	5.66	5.61	5.64	90.7	85.9	8.0	29.9	3.0	3.1	8.5
103	WRA2	S	MID-FLOOD	3-Jun-06	11:47	31.70	26.3	6.00	5.87	92.7	88.4	8.1	12.8	4.1	4.3	8.0	
104	WRA2	M	MID-FLOOD	3-Jun-06			25.8	5.53	5.48	5.72	92.4	89.2	8.1	27.3	3.2	3.5	4.8
105	WRA2	B	MID-FLOOD	3-Jun-06			25.6	5.77	5.59	5.68	92.6	89.3	8.1	29.9	3.3	3.1	11.0
106	WRA3	S	MID-FLOOD	3-Jun-06	12:02	30.70	26.2	6.08	5.95	93.5	90.3	8.1	13.5	4.5	4.8	8.5	
107	WRA3	M	MID-FLOOD	3-Jun-06			25.8	5.74	5.61	5.85	88.9	85.3	8.1	26.7	3.1	3.2	7.5
108	WRA3	B	MID-FLOOD	3-Jun-06			25.7	5.50	5.48	5.49	91.3	88.6	8.1	28.5	3.1	3.2	4.5
109	WWFCZ1	S	MID-FLOOD	3-Jun-06	12:30	39.00	26.2	5.95	5.61	92.7	88.0	8.2	13.3	4.5	4.7	6.5	
110	WWFCZ1	M	MID-FLOOD	3-Jun-06			25.8	5.60	5.52	5.72	87.2	83.1	8.2	28.4	3.9	3.9	8.5
111	WWFCZ1	B	MID-FLOOD	3-Jun-06			25.7	5.50	5.42	5.46	87.6	84.5	8.2	28.3	4.9	4.4	10.5
112	WWFCZ2	S	MID-FLOOD	3-Jun-06	12:43	30.40	26.2	5.94	5.80	93.6	89.6	8.1	12.9	4.8	5.5	5.0	
113	WWFCZ2	M	MID-FLOOD	3-Jun-06			25.7	5.67	5.53	5.74	84.4	82.1	8.1	28.4	4.2	3.9	7.5
114	WWFCZ2	B	MID-FLOOD	3-Jun-06			25.6	5.66	5.58	5.62	82.6	89.4	8.1	30.5	3.0	3.1	7.0
115	WFCZR1	S	MID-FLOOD	3-Jun-06	12:58	45.00	26.2	6.06	5.96	89.2	87.1	8.1	13.8	4.5	4.5	5.0	
116	WFCZR1	M	MID-FLOOD	3-Jun-06			25.6	5.86	5.70	5.90	90.1	88.6	8.1	30.8	8.2	8.1	9.5
117	WFCZR1	B	MID-FLOOD	3-Jun-06			25.5	5.44	5.40	5.42	87.8	84.8	8.1	31.1	4.9	5.5	7.5
118	WFCZR2	S	MID-FLOOD	3-Jun-06	12:17	38.10	26.2	5.82	5.73	88.5	85.6	8.2	12.8	4.6	4.7	5.0	
119	WFCZR2	M	MID-FLOOD	3-Jun-06			25.9	5.97	5.83	5.84	90.6	88.2	8.2	24.8	3.8	3.6	6.5
120	WFCZR2	B	MID-FLOOD	3-Jun-06			25.8	5.64	5.58	5.61	91.1	88.1	8.2	25.2	3.7	3.8	6.0

G:\env\project\24583\env\_data\Marine\06-06 - Data

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

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L	Average value	DO, % saturation	pH, Unit	Salinity, ppt	Turbidity, NTU	Averaged Value	Suspended Solid, mg/L	Averaged Value	
121	WWA1	S	MID-EBB	5-Jun-06	9:22	7.00	26.6	6.51	6.42	93.9	89.9	8.1	10.6	4.2	4.3	4.5	
122	WWA1	M	MID-EBB	5-Jun-06			26.6	6.24	6.16	6.33	90.6	89.5	8.1	11.6	4.7	4.9	6.0
123	WWA1	B	MID-EBB	5-Jun-06			26.5	6.26	6.20	6.23	92.1	90.1	8.1	12.6	5.0	5.1	6.0
124	WWA2	S	MID-EBB	5-Jun-06	9:11	10.30	26.6	5.90	5.82	84.4	83.1	8.2	11.2	4.7	4.6	4.5	
125	WWA2	M	MID-EBB	5-Jun-06			26.6	6.25	6.15	6.03	92.9	91.4	8.2	11.6	4.9	5.2	7.0
126	WWA2	B	MID-EBB	5-Jun-06			26.6	6.07	6.06	6.07	92.0	90.7	8.2	11.6	4.6	4.6	7.0
127	WWA3	S	MID-EBB	5-Jun-06	9:00	6.40	27.1	5.70	5.61	81.2	89.0	8.1	6.8	5.0	4.7	14.0	
128	WWA3	M	MID-EBB	5-Jun-06			26.7	6.05	5.99	5.84	92.4	90.0	8.1	11.9	4.7	5.1	15.0
129	WWA3	B	MID-EBB	5-Jun-06			26.6	6.03	5.99	6.01	91.2	89.7	8.1	11.9	5.4	5.9	13.5
130	WRA1	S	MID-EBB	5-Jun-06	9:36	35.50	26.6	6.16	6.12	92.0	89.9	8.2	9.9	2.9	3.4	5.0	
131	WRA1	M	MID-EBB	5-Jun-06			25.8	5.50	5.43	5.80	91.2	86.5	8.2	27.8	3.3	3.4	4.5
132	WRA1	B	MID-EBB	5-Jun-06			25.8	5.45	5.30	5.38	91.6	86.6	8.2	26.4	4.9	5.0	3.8
133	WRA2	S	MID-EBB	5-Jun-06	9:50	30.70	26.5	6.26	6.17	93.1	89.6	8.1	10.1	5.1	5.2	5.0	
134	WRA2	M	MID-EBB	5-Jun-06			25.9	5.41	5.48	5.83	89.4	86.6	8.1	25.6	2.9	3.2	6.0
135	WRA2	B	MID-EBB	5-Jun-06			25.7	5.51	5.46	5.49	92.9	89.3	8.1	27.9	3.2	3.3	3.8
136	WRA3	S	MID-EBB	5-Jun-06	10:03	26.10	26.5	6.43	6.44	99.4	93.5	8.2	10.4	4.9	4.8	8.0	
137	WRA3	M	MID-EBB	5-Jun-06			26.0	5.56	5.47	5.98	92.7	86.6	8.2	24.5	2.9	2.9	6.0
138	WRA3	B	MID-EBB	5-Jun-06			25.6	5.81	5.79	5.77	91.2	88.4	8.2	26.1	2.6	2.8	3.5
139	WWFCZ1	S	MID-EBB	5-Jun-06	10:35	37.60	26.6	6.38	6.33	89.9	89.0	8.1	9.8	5.2	5.3	4.5	
140	WWFCZ1	M	MID-EBB	5-Jun-06			25.8	5.50	5.44	5.91	92.6	88.7	8.1	27.6	3.3	3.6	3.8
141	WWFCZ1	B	MID-EBB	5-Jun-06			25.6	5.60	5.55	5.58	89.7	86.3	8.1	29.2	3.6	3.5	4.1
142	WWFCZ2	S	MID-EBB	5-Jun-06	10:47	33.80	26.6	6.22	6.33	92.3	90.9	8.2	9.9	5.4	5.0	5.5	
143	WWFCZ2	M	MID-EBB	5-Jun-06			26.1	5.60	5.50	5.91	88.7	85.6	8.2	23.0	3.8	4.0	6.0
144	WWFCZ2	B	MID-EBB	5-Jun-06			25.9	5.55	5.45	5.50	88.0	84.9	8.2	24.2	3.5	3.5	4.2
145	WFCZR1	S	MID-EBB	5-Jun-06	11:05	42.80	26.7	6.47	6.44	90.8	89.1	8.1	9.7	4.5	4.5	6.5	
146	WFCZR1	M	MID-EBB	5-Jun-06			26.0	6.18	6.00	6.27	88.6	88.0	8.1	24.0	3.4	3.4	5.5
147	WFCZR1	B	MID-EBB	5-Jun-06			26.1	5.85	5.81	5.83	93.1	91.2	8.1	21.5	3.7	3.6	3.9
148	WFCZR2	S	MID-EBB	5-Jun-06	10:23	41.80	26.5	6.34	6.20	96.4	94.2	8.1	9.5	5.0	4.7	6.0	
149	WFCZR2	M	MID-EBB	5-Jun-06			25.9	5.54	5.40	5.87	92.1	89.4	8.1	26.8	2.9	2.8	6.5
150	WFCZR2	B	MID-EBB	5-Jun-06			25.7	5.47	5.62	5.55	89.0	86.1	8.1	29.0	3.2	3.0	3.6

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

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L	Average value	DO, % saturation	pH, Unit	Salinity, ppt	Turbidity, NTU	Averaged Value	Suspended Solid, mg/L	Averaged Value	
151	WWA1	S	MID-FLOOD	5-Jun-06	17:24	7.00	26.8	6.50	6.41	93.7	92.6	8.2	9.4	4.6	4.4	4.5	
152	WWA1	M	MID-FLOOD	5-Jun-06			26.9	6.61	6.62	6.54	94.0	92.9	8.2	11.2	6.6	5.7	5.5
153	WWA1	B	MID-FLOOD	5-Jun-06			26.8	6.18	6.11	6.15	93.3	91.5	8.2	12.0	4.1	4.2	4.9
154	WWA2	S	MID-FLOOD	5-Jun-06	17:35	10.20	27.0	6.83	6.81	96.8	95.8	8.2	10.1	5.2	4.5	4.5	
155	WWA2	M	MID-FLOOD	5-Jun-06			26.6	6.33	6.16	6.53	91.1	89.8	8.2	14.8	4.2	4.6	7.0
156	WWA2	B	MID-FLOOD	5-Jun-06			26.5	6.20	6.15	6.18	89.7	88.0	8.2	16.2	4.9	5.1	4.7
157	WWA3	S	MID-FLOOD	5-Jun-06	17:00	6.50	26.9	6.84	6.57	92.3	92.0	8.2	10.7	4.5	4.4	8.0	
158	WWA3	M	MID-FLOOD	5-Jun-06			26.6	6.41	6.39	6.50	91.9	90.7	8.2	14.7	5.2	5.5	11.0
159	WWA3	B	MID-FLOOD	5-Jun-06			26.5	6.31	6.24	6.28	94.1	92.2	8.2	16.0	5.2	5.5	5.1
160	WRA1	S	MID-FLOOD	5-Jun-06	17:12	34.00	26.8	6.55	6.47	93.4	92.4	8.2	10.2	4.5	4.6	7.5	
161	WRA1	M	MID-FLOOD	5-Jun-06			25.8	5.50	5.48	6.00	87.7	84.0	8.2	28.7	3.6	3.9	17.0
162	WRA1	B	MID-FLOOD	5-Jun-06			26.7	5.54	5.43	5.49	91.7	88.2	8.2	29.4	4.3	4.9	4.3
163	WRA2	S	MID-FLOOD	5-Jun-06	11:00	30.00	26.7	6.39	6.31	97.6	96.0	8.2	10.3	5.5	5.1	8.0	
164	WRA2	M	MID-FLOOD	5-Jun-06			25.9	5.50	5.46	5.92	87.6	85.6	8.2	28.0	4.4	4.4	7.5
165	WRA2	B	MID-FLOOD	5-Jun-06			25.7	5.46	5.40	5.43	88.6	84.8	8.2	30.0	3.9	4.1	4.5
166	WRA3	S	MID-FLOOD	5-Jun-06	16:50	26.80	26.8	6.55	6.47	93.4	92.4	8.2	10.2	4.9	5.2	9.5	
167	WRA3	M	MID-FLOOD	5-Jun-06			25.9	5.51	5.42	5.99	86.6	84.1	8.2	27.8	4.2	4.1	6.5
168	WRA3	B	MID-FLOOD	5-Jun-06			25.8	5.45	5.42	5.44	88.7	85.2	8.2	29.1	3.7	3.5	4.3
169	WWFCZ1	S	MID-FLOOD	5-Jun-06	16:25	42.00	26.8	6.51	6.53	97.4	96.4	8.1	10.2	4.6	4.8	7.5	
170	WWFCZ1	M	MID-FLOOD	5-Jun-06			26.0	5.60	5.43	6.02	87.0	84.6	8.1	27.7	2.8	2.8	5.8
171	WWFCZ1	B	MID-FLOOD	5-Jun-06			26.0	5.54	5.43	5.49	88.6	87.3	8.1	28.6	4.4	4.5	4.0
172	WWFCZ2	S	MID-FLOOD	5-Jun-06	16:13	41.10	26.7	6.29	6.32	96.8	95.2	8.2	10.0	4.5	3.7	2.5	
173	WWFCZ2	M	MID-FLOOD	5-Jun-06			26.1	5.49	5.46	5.89	90.1	87.7	8.1	27.6	3.6	3.5	6.5
174	WWFCZ2	B	MID-FLOOD	5-Jun-06			25.9	5.56	5.44	5.50	93.4	89.3	8.1	29.2	5.0	3.5	4.0
175	WFCZR1	S	MID-FLOOD	5-Jun-06	16:00	41.30	27.0	6.01	5.93	90.7	89.7	8.2	9.8	3.9	3.7	6.0	
176	WFCZR1	M	MID-FLOOD	5-Jun-06			26.1	5.92	5.44	5.83	85.7	84.2	8.2	26.3	5.3	5.5	10.0
177	WFCZR1	B	MID-FLOOD	5-Jun-06			26.1	5.74	5.70	5.72	91.4	88.7	8.2	24.2	3.7	4.2	4.4
178	WFCZR2	S	MID-FLOOD	5-Jun-06	16:38	32.20	26.7	6.50	6.41	92.3	91.7	8.2	10.1	2.9	2.8	6.0	
179	WFCZR2	M	MID-FLOOD	5-Jun-06			25.9	5.81	5.74	6.12	87.3	84.6	8.2	28.7	4.2	3.7	9.0
180	WFCZR2	B	MID-FLOOD	5-Jun-06			25.8	5.50	5.41	5.46	89.3	86.2	8.2	28.8	3.5	4.0	3.5

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

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L	Average value	DO, % saturation	pH, Unit	Salinity, ppt	Turbidity, NTU	Averaged Value	Suspended Solid, mg/L	Averaged Value	
181	WWA1	S	MID-EBB	7-Jun-06	9:24	6.20	26.8	6.71	6.60	93.8	92.8	8.2	9.7	4.0	4.1	6.5	
182	WWA1	M	MID-EBB	7-Jun-06			26.7	6.73	6.60	6.66	94.3	93.0	8.2	12.7	3.5	3.8	4.5
183	WWA1	B	MID-EBB	7-Jun-06			26.7	6.58	6.56	6.57	96.7	94.7	8.2	13.6	3.7	3.4	7.5
184	WWA2	S	MID-EBB	7-Jun-06	9:12	8.80	26.8	6.09	6.02	94.4	92.3	8.1	11.4	4.1	4.6	4.5	
185	WWA2	M	MID-EBB	7-Jun-06			26.7	6.39	6.37	6.22	94.6	92.4	8.1	12.0	6.9	7.1	12.0
186	WWA2	B	MID-EBB	7-Jun-06			26.7	6.39	6.41	6.40	92.5	91.2	8.1	12.8	7.0	7.8	12.0
187	WWA3	S	MID-EBB	7-Jun-06	9:00	6.80	26.7	6.31	6.22	94.6	92.4	8.2	12.0	5.9	6.1	11.0	
188	WWA3	M	MID-EBB	7-Jun-06			26.7	6.05	6.00	6.15	93.3	91.5	8.2	13.0	5.7	5.8	7.0
189	WWA3	B	MID-EBB	7-Jun-06			26.6	5.90	5.85	5.88	94.5	92.7	8.2	12.4	4.5	4.5	8.5
190	WRA1	S	MID-EBB	7-Jun-06	9:40	28.00	26.9	6.29	6.27	94.6	93.1	8.0	9.6	5.1	4.4	7.0	
191	WRA1	M	MID-EBB	7-Jun-06			26.2	5.92	5.87	6.09	90.0	87.8	8.0	22.8	6.0	5.0	7.0
192	WRA1	B	MID-EBB	7-Jun-06			26.2	5.50	5.42	5.46	85.3	83.0	8.0	28.3	5.4	5.1	5.5
193	WRA2	S	MID-EBB	7-Jun-06	9:53	27.50	26.6	6.56	6.58	95.7	95.4	8.1	10.7	5.0	4.8	6.5	
194	WRA2	M	MID-EBB	7-Jun-06			25.9	5.91	5.86	6.23	85.5	82.4	8.2	28.7	4.9	5.1	6.0
195	WRA2	B	MID-EBB	7-Jun-06			25.8	5.48	5.40	5.44	85.3	82.5	8.1	29.0	4.8	4.5	7.0
196	WRA3	S	MID-EBB	7-Jun-06	10:10	28.80	26.8	6.49	6.48	98.3	94.9	8.2	10.4	4.2	4.6	5.5	
197	WRA3	M	MID-EBB	7-Jun-06			26.0	5.70	5.62	6.07	84.9	85.1	8.2	29.2	4.5	4.9	3.5
198	WRA3	B	MID-EBB	7-Jun-06			25.9	5.76	5.68	5.72	91.1	88.0	8.2	26.6	3.8	3.6	8.0
199	WWFCZ1	S	MID-EBB	7-Jun-06	10:53	36.20	26.9	6.86	6.81	96.9	95.6	8.1	8.6	3.1	2.8	8.0	
200	WWFCZ1	M	MID-EBB	7-Jun-06			26.1	5.54	5.48	6.17	86.6	85.2	8.1	27.2	3.1	3.0	4.0
201	WWFCZ1	B	MID-EBB	7-Jun-06			26.1	5.48	5.45	5.47	86.2	85.4	8.1	25.1	2.8	3.1	9.5
202	WWFCZ2	S	MID-EBB	7-Jun-06	10:46	32.00	26.9	6.73	6.70	100.4	97.2	8.0	9.0	4.3	4.1	12.0	
203	WWFCZ2	M	MID-EBB	7-Jun-06			26.5	6.06	6.05	6.39	83.5	81.7	8.0	17.8	2.6	2.9	6.5
204	WWFCZ2	B	MID-EBB	7-Jun-06			26.1	5.70	5.62	5.66	96.0	92.0	8.0	25.7	3.3	3.2	4.5
205	WFCZR1	S	MID-EBB	7-Jun-06	10:58	42.60	26.8	6.60	6.49	94.6	92.6	8.1	8.9	4.7	4.6	5.0	
206	WFCZR1	M	MID-EBB	7-Jun-06			26.0	5.35	5.50	5.99	86.6	85.4	8.1	25.9	2.7	2.9	11.5
207	WFCZR1	B	MID-EBB	7-Jun-06			26.2	6.18	6.11	6.15	89.3	86.9	8.1	26.7	2.9	3.0	6.0
208	WFCZR2	S	MID-EBB	7-Jun-06	10:22	39.00	27.0	6.46	6.33	95.2	94.2	8.2	8.6	4.2	4.1	7.0	
209	WFCZR2	M	MID-EBB	7-Jun-06			26.0	5.49	5.50	5.95	87.3	83.9	8.1	28.5	3.2	3.1	4.0
210	WFCZR2	B	MID-EBB	7-Jun-06			25.9	5.60	5.54	5.57	80.1	86.5	8.2	28.1	4.0	4.0	3.5

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

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L	Average value	DO, % saturation	pH, Unit	Salinity, ppt	Turbidity, NTU	Averaged Value	Suspended Solid, mg/L	Averaged Value	
211	WWA1	S	MID-FLOOD	7-Jun-06	15:50	6.80	27.2	6.99	7.01	99.7	99.2	8.2	9.8	5.3	5.1	5.0	
212	WWA1	M	MID-FLOOD	7-Jun-06			27.1	6.39	6.32	6.68	91.8	90.4	8.2	12.5	3.4	4.0	5.0
213	WWA1	B	MID-FLOOD	7-Jun-06			27.1	6.16	6.14	6.15	83.4	82.0	8.2	11.3	4.4	4.3	5.5
214	WWA2	S	MID-FLOOD	7-Jun-06	15:40	9.00	27.3	6.51	6.46	94.9	93.5	8.2	9.6	4.5	4.5	8.0	
215	WWA2	M	MID-FLOOD	7-Jun-06			27.2	6.47	6.45	6.47	93.7	92.2	8.2	11.9	3.7	3.3	6.0
216	WWA2	B	MID-FLOOD	7-Jun-06			27.1	6.66	6.95	6.81	93.3	94.2	8.2	12.0	3.8	3.7	6.0
217	WWA3	S	MID-FLOOD	7-Jun-06	15:30	6.60	27.8	6.64	6.67	97.7	97.0	8.1	10.5	4.6	4.4	12.5	
218	WWA3	M	MID-FLOOD	7-Jun-06			27.2	6.23	6.16	6.43	94.5	92.5	8.1	12.6	3.5	3.2	8.5
219	WWA3	B	MID-FLOOD	7-Jun-06			27.3	6.41	6.50	6.46	94.4	93.4	8.1	11.8	4.6	4.5	9.5
220	WRA1	S	MID-FLOOD	7-Jun-06	16:04	31.00	27.3	6.07	6.11	96.2	97.3	8.2	9.4	5.5	4.7	7.0	
221	WRA1	M	MID-FLOOD	7-Jun-06			26.4	5.60	5.57	5.84	86.5	84.5	8.2	27.1	4.9	4.4	5.3
222	WRA1	B	MID-FLOOD	7-Jun-06			26.1	5.41	5.34	5.38	85.8	83.4	8.2	26.0	4.9	4.4	8.5
223	WRA2	S	MID-FLOOD	7-Jun-06	16:16	26.00	27.4	6.61	6.54	93.7	92.2	8.2	9.2	4.7	4.7	7.0	
224	WRA2	M	MID-FLOOD	7-Jun-06			26.3	5.59	5.48	6.06	86.8	83.7	8.2	26.1	5.2	4.9	6.5
225	WRA2	B	MID-FLOOD	7-Jun-06			25.9	5.75	5.72	5.74	83.9	82.7	8.2	29.6	5.3	5.6	8.0
226	WRA3	S	MID-FLOOD	7-Jun-06	16:29	28.80	27.3	6.80	6.79	96.0	94.9	8.1	9.4	4.5	4.5	5.0	
227	WRA3	M	MID-FLOOD	7-Jun-06			26.2	5.51	5.46	6.14	82.4	81.0	8.1	26.0	4.6	5.5	4.3
228	WRA3	B	MID-FLOOD	7-Jun-06			25.9	5.40	5.45	5.43	84.6	84.5	8.1	30.7	5.1	5.4	7.5
229	WWFCZ1	S	MID-FLOOD	7-Jun-06	16:56	40.00	27.2	6.36	6.41	93.0	92.5	8.2	9.5	5.2	5.4	6.5	
230	WWFCZ1	M	MID-FLOOD	7-Jun-06			26.5	5.63	5.65	6.01	83.5	81.2	8.2	21.8	3.4	3.7	6.5
231	WWFCZ1	B	MID-FLOOD	7-Jun-06			26.3	5.72	5.66	5.69	88.1	86.3	8.2	23.3	3.4	3.4	11.5
232	WWFCZ2	S	MID-FLOOD	7-Jun-06	17:10	36.50	27.5	6.60	6.73	97.7	97.0	8.0	9.4	4.7	4.6	7.0	
233	WWFCZ2	M	MID-FLOOD	7-Jun-06			26.2	5.49	5.43	6.06	84.2	82.1	8.1	25.9	3.2	3.3	7.0
234	WWFCZ2	B	MID-FLOOD	7-Jun-06			26.0	5.42	5.44	5.43	87.7	84.5	8.1	27.3	3.2	3.2	4.0
235	WFCZR1	S	MID-FLOOD	7-Jun-06	17:13	41.00	27.1	6.79	6.75	95.6	93.6	8.2	10.2	4.8	4.6	9.5	
236	WFCZR1	M	MID-FLOOD	7-Jun-06			26.2	5.71	5.74	6.25	84.8	83.2	8.2	27.6	3.2	3.6	5.0
237	WFCZR1	B	MID-FLOOD	7-Jun-06			26.1	5.46	5.43	5.45	80.5	78.6	8.2	28.9	3.4	4.1	5.5
238	WFCZR2	S	MID-FLOOD	7-Jun-06	16:42	42.10	27.4	6.54	6.57	96.9	96.0	8.1	9.3	4.8	5.2	10.0	
239	WFCZR2	M	MID-FLOOD	7-Jun-06			26.2	5.46	5.45	6.01	86.7	83.1	8.1	27.9	5.1	5.3	4.0
240	WFCZR2	B	MID-FLOOD	7-Jun-06			26.1	5.52	5.41	5.47	81.4	79.5	8.2	29.5	4.5	4.4	5.5

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

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L	Average value	DO, % saturation	pH, Unit	Salinity, ppt	Turbidity, NTU	Averaged Value	Suspended Solid, mg/L	Averaged Value	
241	WWA1	S	MID-EBB	9-Jun-06	11:23	7.10	25.3	5.87	5.73	91.3	89.6	8.2	9.7	3.9	3.9	4.0	
242	WWA1	M	MID-EBB	9-Jun-06			25.2	6.01	5.96	5.89	92.7	91.6	8.2	23.5	4.3	4.3	6.5
243	WWA1	B	MID-EBB	9-Jun-06			25.2	6.12	6.03	6.08	93.5	92.1	8.2	25.3	4.4	4.4	7.0
244	WWA2	S	MID-EBB	9-Jun-06	11:09	8.60	25.4	6.16	6.13	93.1	92.6	8.2	8.9	6.0	5.7	6.5	
245	WWA2	M	MID-EBB	9-Jun-06			25.2	6.23	6.12	6.16	94.2	92.7	8.2	23.6	5.9	5.9	6.0
246	WWA2	B	MID-EBB	9-Jun-06			25.1	6.04	6.01	6.03	90.3	89.2	8.2	24.2	7.1	7.6	9.0
247	WWA3	S	MID-EBB	9-Jun-06	11:00	6.30	25.3	5.98	5.92	89.5	88.3	8.2	9.7	25.0	23.2	25.0	
248	WWA3	M	MID-EBB	9-Jun-06			25.2	5.85	5.73	5.97	88.4	87.2	8.2	24.8	21.5	21.1	27.0
249	WWA3	B	MID-EBB	9-Jun-06			25.2	5.89	5.79	5.84	89.1	88.5	8.2	25.1	21.1	20.7	22.1
250	WRA1	S	MID-EBB	9-Jun-06	12:09	29.70	25.4	5.89	5.76	89.5	88.3	8.2	9.5	4.2	4.2	4.5	
251	WRA1	M	MID-EBB	9-Jun-06			25.3	6.05	6.01	5.93	92.1	90.3	8.2	24.2	3.4	3.8	5.5
252	WRA1	B	MID-EBB	9-Jun-06			25.3	5.98	5.77	5.88	89.5	86.5	8.2	25.3	4.2	4.4	4.0
253	WRA2	S	MID-EBB	9-Jun-06	11:52	28.50	25.3	6.13	6.12	92.7	91.6	8.2	9.2	4.0	4.1	5.0	
254	WRA2	M	MID-EBB	9-Jun-06			25.2	6.03	5.97	6.06	91.3	89.5	8.2	24.1	4.1	4.1	5.0
255	WRA2	B	MID-EBB	9-Jun-06			25.3	6.07	6.04	6.06	90.5	89.2	8.2	25.3	4.3	4.8	4.2
256	WRA3	S	MID-EBB	9-Jun-06	11:40	26.40	25.4	5.92	5.88	90.3	88.7	8.2	9.6	4.0	4.1	4.0	
257	WRA3	M	MID-EBB	9-Jun-06			25.3	5.85	5.74	5.85	88.9	87.5	8.2	23.8	4.3	5.1	7.0
258	WRA3	B	MID-EBB	9-Jun-06			25.3	5.86	5.73	5.80	89.5	87.6	8.2	24.9	4.2	4.4	4.4
259	WWFCZ1	S	MID-EBB	9-Jun-06	12:51	32.10	25.4	5.96	5.83	90.3	88.7	8.2	8.7	3.5	3.8	5.0	
260	WWFCZ1	M	MID-EBB	9-Jun-06			25.2	6.12	6.07	6.00	91.6	90.5	8.2	24.9	3.5	3.5	5.5
261	WWFCZ1	B	MID-EBB	9-Jun-06			25.2	6.11	6.05	6.08	92.7	91.6	8.2	25.1	6.2	6.8	4.5
262	WWFCZ2	S	MID-EBB	9-Jun-06	12:21	33.50	25.3	6.12	6.04	92.8	91.3	8.2	9.2	4.3	4.2	7.5	
263	WWFCZ2	M	MID-EBB	9-Jun-06			25.3	6.21	6.18	6.13	93.4	92.5	8.2	24.2	4.4	4.7	9.0
264	WWFCZ2	B	MID-EBB	9-Jun-06			25.1	6.09	6.11	6.10	91.6	89.9	8.2	25.3	8.9	9.1	5.9
265	WFCZR1	S	MID-EBB	9-Jun-06	13:04	34.30	25.4	5.99	5.88	89.2	88.6	8.2	8.5	4.2	4.8	10.5	
266	WFCZR1	M	MID-EBB	9-Jun-06			25.3	5.83	5.79	5.87	89.7	88.5	8.2	23.6	6.4	6.2	8.0
267	WFCZR1	B	MID-EBB	9-Jun-06			25.2	5.92	5.91	5.92	86.7	85.3	8.2	24.7	7.5	7.8	6.2
268	WFCZR2	S	MID-EBB	9-Jun-06	12:34	34.20	25.4	5.96	5.82	90.3	88.7	8.2	8.5	5.4	5.0	5.0	
269	WFCZR2	M	MID-EBB	9-Jun-06			25.3	5.85	5.74	5.84	89.4	88.3	8.2	23.8	4.9	4.5	9.5
270	WFCZR2	B	MID-EBB	9-Jun-06			25.3	5.88	5.76	5.82	88.5	88.1	8.2	24.9	4.4	4.3	4.7

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

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L	Average value	DO, % saturation	pH, Unit	Salinity, ppt	Turbidity, NTU	Averaged Value	Suspended Solid, mg/L	Averaged Value	
271	WWA1	S	MID-FLOOD	9-Jun-06	17:29	8.00	25.9	5.92	5.80	94.7	94.2	8.1	10.9	3.2	3.4	7.5	
272	WWA1	M	MID-FLOOD	9-Jun-06			25.8	5.54	5.60	5.72	89.4	84.1	8.1	24.4	4.0	4.1	5.5
273	WWA1	B	MID-FLOOD	9-Jun-06			25.8	5.71	5.56	5.64	86.5	87.3	8.1	25.6	4.2	4.2	3.9
274	WWA2	S	MID-FLOOD	9-Jun-06	17:39	9.40	25.6	6.30	6.10	91.5	90.8	8.1	29.9	5.9	5.5	5.5	
275	WWA2	M	MID-FLOOD	9-Jun-06			25.6	5.92	5.86	6.05	87.0	88.0	8.1	24.5	5.7	5.8	8.5
276	WWA2	B	MID-FLOOD	9-Jun-06			25.6	5.74	5.69	5.72	85.1	86.4	8.1	26.0	6.0	6.2	5.8
277	WWA3	S	MID-FLOOD	9-Jun-06	17:50	7.50	25.7	6.09	6.03	87.1	89.0	8.1	10.1	12.6	13.0	25.0	
278	WWA3	M	MID-FLOOD	9-Jun-06			25.6	5.84	5.81	5.94	84.4	85.9	8.1	25.5	11.6	10.9	17.0
279	WWA3	B	MID-FLOOD	9-Jun-06			25.7	5.66	5.61	5.64	87.7	87.3	8.1	26.8	11.7	11.4	11.9
280	WRA1	S	MID-FLOOD	9-Jun-06	17:18	32.40	25.8	5.99	5.81	94.6	91.2	8.1	10.6	3.9	3.7	6.5	
281	WRA1	M	MID-FLOOD	9-Jun-06			25.6	6.01	6.00	5.95	87.6	86.8	8.1	25.8	3.4	3.3	7.0
282	WRA1	B	MID-FLOOD	9-Jun-06			25.5	5.71	5.80	5.76	90.4	90.1	8.1	26.2	3.7	3.6	3.6
283	WRA2	S	MID-FLOOD	9-Jun-06	17:04	30.00	25.7	6.10	6.14	88.4	86.1	8.1	10.8	3.4	3.3	5.0	
284	WRA2	M	MID-FLOOD	9-Jun-06			25.4	5.89	5.78	5.98	92.0	89.3	8.1	26.2	3.6	3.4	3.5
285	WRA2	B	MID-FLOOD	9-Jun-06			25.4	5.91	5.80	5.86	89.5	89.0	8.1	25.6	4.1	4.1	3.7
286	WRA3	S	MID-FLOOD	9-Jun-06	16:53	28.20	25.6	6.13	6.05	91.6	90.6	8.2	10.1	4.0	3.8	3.5	
287	WRA3	M	MID-FLOOD	9-Jun-06			25.6	5.78	6.64	6.15	87.2	88.6	8.1	22.6	4.0	4.2	6.5
288	WRA3	B	MID-FLOOD	9-Jun-06			25.4	5.88	5.81	5.85	89.2	88.0	8.1	24.5	3.9	3.9	4.0
289	WWFCZ1	S	MID-FLOOD	9-Jun-06	16:27	38.70	26.2	5.80	5.91	86.3	94.1	8.2	12.2	4.0	3.8	5.0	
290	WWFCZ1	M	MID-FLOOD	9-Jun-06			25.8	5.78	5.74	5.81	91.8	90.0	8.2	20.6	3.9	4.0	6.5
291	WWFCZ1	B	MID-FLOOD	9-Jun-06			25.4	5.60	5.65	5.63	93.6	89.7	8.2	25.4	5.9	5.8	4.5
292	WWFCZ2	S	MID-FLOOD	9-Jun-06	16:13	40.40	26.6	6.01	6.05	94.5	92.1	8.2	13.1	5.3	4.2	11.0	
293	WWFCZ2	M	MID-FLOOD	9-Jun-06			28.0	5.99	5.80	5.99	90.3	88.4	8.2	22.4	5.0	4.7	4.3
294	WWFCZ2	B	MID-FLOOD	9-Jun-06			25.5	5.81	5.84	5.93	92.6	90.2	8.2	23.4	6.1	5.0	5.0
295	WFCZR1	S	MID-FLOOD	9-Jun-06	16:00	45.00	26.0	6.12	6.10	89.1	86.8	8.1	10.6	4.6	4.4	4.0	
296	WFCZR1	M	MID-FLOOD	9-Jun-06			25.6	6.00	6.03	6.06	89.8	87.5	8.1	23.8	5.2	6.0	6.5
297	WFCZR1	B	MID-FLOOD	9-Jun-06			25.3	5.81	5.84	5.83	90.2	87.3	8.1	23.5	5.9	5.5	5.3
298	WFCZR2	S	MID-FLOOD	9-Jun-06	16:40	42.00	26.1	6.14	6.11	95.4	93.1	8.1	11.6	4.3	4.7	6.5	
299	WFCZR2	M	MID-FLOOD	9-Jun-06			25.7	5.98	5.92	6.04	90.6	90.4	8.1	21.7	4.7	4.3	8.0
300	WFCZR2	B	MID-FLOOD	9-Jun-06			25.4	5.76	5.71	5.74	86.5	87.9	8.1	26.5	4.1	4.3	4.4



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

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L	Average value	DO, % saturation	pH, Unit	Salinity, ppt	Turbidity, NTU	Averaged Value	Suspended Solid, mg/L	Averaged Value	
301	WWA1	S	MID-EBB	12-Jun-06	13:36	6.20	25.8	5.84	5.53	95.8	92.6	8.0	17.5	5.8	5.8	5.0	
302	WWA1	M	MID-EBB	12-Jun-06			25.8	5.65	5.50	5.63	92.3	88.2	8.0	20.9	5.1	5.1	11.0
303	WWA1	B	MID-EBB	12-Jun-06			25.8	5.93	5.63	5.78	97.6	93.8	8.0	20.0	7.5	7.5	9.5
304	WWA2	S	MID-EBB	12-Jun-06	13:25	9.50	25.9	5.58	5.43	92.7	87.9	8.1	20.1	10.0	10.7	8.5	
305	WWA2	M	MID-EBB	12-Jun-06			25.9	5.89	5.76	5.67	96.3	92.3	8.1	20.3	6.6	6.3	8.5
306	WWA2	B	MID-EBB	12-Jun-06			25.9	5.77	5.65	5.71	96.0	93.6	8.1	20.4	10.3	11.3	14.5
307	WWA3	S	MID-EBB	12-Jun-06	13:15	6.50	26.1	5.41	5.50	85.6	82.1	8.1	19.8	11.2	9.6	17.5	
308	WWA3	M	MID-EBB	12-Jun-06			26.0	5.84	5.67	5.61	95.4	90.4	8.1	20.2	5.2	4.8	9.0
309	WWA3	B	MID-EBB	12-Jun-06			25.8	5.96	5.42	5.69	90.6	88.6	8.0	20.2	9.3	9.0	10.0
310	WRA1	S	MID-EBB	12-Jun-06	13:49	29.40	25.8	5.77	5.51	93.0	92.6	8.1	16.2	3.7	3.6	10.5	
311	WRA1	M	MID-EBB	12-Jun-06			25.7	5.86	5.74	5.72	98.2	90.8	8.1	24.4	9.7	8.6	10.5
312	WRA1	B	MID-EBB	12-Jun-06			25.6	5.50	5.52	5.51	93.4	90.5	8.1	27.2	13.8	13.8	15.0
313	WRA2	S	MID-EBB	12-Jun-06	14:02	25.00	25.8	5.94	5.84	89.7	86.4	8.2	15.5	4.8	4.7	4.0	
314	WRA2	M	MID-EBB	12-Jun-06			25.7	5.94	5.83	5.89	83.5	85.6	8.2	18.8	5.2	5.1	3.3
315	WRA2	B	MID-EBB	12-Jun-06			25.7	5.57	5.40	5.49	96.2	89.4	8.2	23.9	7.5	8.5	10.5
316	WRA3	S	MID-EBB	12-Jun-06	14:15	26.00	25.7	5.81	5.49	95.0	89.9	8.1	20.4	5.5	5.4	4.0	
317	WRA3	M	MID-EBB	12-Jun-06			25.6	5.96	5.87	5.78	87.7	83.1	8.1	24.6	4.5	4.4	4.8
318	WRA3	B	MID-EBB	12-Jun-06			25.6	5.74	5.71	5.73	90.4	88.3	8.1	28.0	4.7	4.8	4.0
319	WWFCZ1	S	MID-EBB	12-Jun-06	14:39	36.20	25.7	5.82	5.60	95.2	92.0	8.1	17.3	4.1	4.3	4.8	
320	WWFCZ1	M	MID-EBB	12-Jun-06			25.7	5.94	5.69	5.76	99.3	96.2	8.1	21.1	5.7	5.6	7.3
321	WWFCZ1	B	MID-EBB	12-Jun-06			25.7	5.84	5.78	5.86	90.8	85.3	8.1	25.2	7.3	7.3	8.5
322	WWFCZ2	S	MID-EBB	12-Jun-06	14:53	27.00	25.7	5.79	5.64	98.4	91.7	8.2	16.5	7.1	7.3	6.0	
323	WWFCZ2	M	MID-EBB	12-Jun-06			25.6	5.80	5.70	5.73	92.3	90.1	8.2	26.5	4.8	4.6	8.0
324	WWFCZ2	B	MID-EBB	12-Jun-06			25.6	5.56	5.54	5.55	89.4	86.2	8.2	24.1	4.6	5.0	11.0
325	WFCZR1	S	MID-EBB	12-Jun-06	15:06	42.70	25.7	5.79	5.62	88.4	88.0	8.2	15.1	8.8	8.5	8.0	
326	WFCZR1	M	MID-EBB	12-Jun-06			25.7	5.80	5.76	5.74	87.0	86.5	8.2	23.3	4.4	4.4	12.5
327	WFCZR1	B	MID-EBB	12-Jun-06			25.6	5.89	5.79	5.84	88.3	87.2	8.2	21.0	7.7	7.4	5.0
328	WFCZR2	S	MID-EBB	12-Jun-06	14:27	40.00	25.7	5.66	5.58	94.2	90.6	8.1	17.6	4.9	5.4	4.5	
329	WFCZR2	M	MID-EBB	12-Jun-06			25.7	5.78	5.44	5.62	89.0	88.0	8.1	24.5	4.9	5.2	7.0
330	WFCZR2	B	MID-EBB	12-Jun-06			25.6	5.60	5.51	5.56	91.8	91.0	8.1	26.1	5.0	4.8	7.5

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

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L	Average value	DO, % saturation	pH, Unit	Salinity, ppt	Turbidity, NTU	Averaged Value	Suspended Solid, mg/L	Averaged Value	
331	WWA1	S	MID-FLOOD	12-Jun-06	9:20	8.00	25.7	5.88	5.72	97.1	89.5	8.2	24.2	3.6	3.7	16.0	
332	WWA1	M	MID-FLOOD	12-Jun-06			25.6	5.97	5.80	5.84	98.3	96.4	8.2	28.5	5.7	5.8	10.5
333	WWA1	B	MID-FLOOD	12-Jun-06			25.5	5.97	5.84	5.91	94.8	89.3	8.2	28.6	7.5	6.6	18.0
334	WWA2	S	MID-FLOOD	12-Jun-06	9:11	11.70	25.6	5.76	5.64	96.6	89.3	8.1	26.2	9.2	9.2	17.5	
335	WWA2	M	MID-FLOOD	12-Jun-06			25.5	5.84	5.74	5.75	92.3	86.0	8.1	27.1	6.2	6.6	12.0
336	WWA2	B	MID-FLOOD	12-Jun-06			25.7	5.96	5.75	5.86	93.2	88.1	8.1	27.4	5.9	5.8	10.5
337	WWA3	S	MID-FLOOD	12-Jun-06	9:00	7.40	25.8	5.71	5.50	84.9	80.9	8.1	27.2	4.2	7.7	14.0	
338	WWA3	M	MID-FLOOD	12-Jun-06			25.7	5.84	5.71	5.69	88.4	84.4	8.1	28.4	7.8	6.2	8.5
339	WWA3	B	MID-FLOOD	12-Jun-06			25.5	5.60	5.56	5.58	84.6	85.2	8.1	28.2	6.3	6.1	12.5
340	WRA1	S	MID-FLOOD	12-Jun-06	9:34	32.30	25.7	5.97	5.88	99.4	92.3	8.2	22.4	3.1	3.1	9.5	
341	WRA1	M	MID-FLOOD	12-Jun-06			25.6	5.72	5.59	5.79	93.5	87.6	8.2	29.8	16.1	15.5	22.5
342	WRA1	B	MID-FLOOD	12-Jun-06			25.6	5.62	5.61	5.62	94.6	89.6	8.1	29.4	6.4	7.7	15.0
343	WRA2	S	MID-FLOOD	12-Jun-06	9:46	27.20	25.7	5.90	5.74	96.1	91.4	8.2	23.6	5.9	4.6	8.5	
344	WRA2	M	MID-FLOOD	12-Jun-06			25.4	5.74	5.64	5.76	92.5	87.0	8.2	26.1	6.3	5.6	8.5
345	WRA2	B	MID-FLOOD	12-Jun-06			25.6	5.64	5.50	5.57	88.8	84.8	8.2	27.8	8.2	9.0	10.5
346	WRA3	S	MID-FLOOD	12-Jun-06	9:58	28.40	25.7	5.70	5.62	89.1	87.2	8.2	22.3	2.8	2.6	6.0	
347	WRA3	M	MID-FLOOD	12-Jun-06			25.2	5.82	5.70	5.71	95.5	87.3	8.2	28.5	4.5	4.4	8.0
348	WRA3	B	MID-FLOOD	12-Jun-06			25.6	5.71	5.62	5.67	93.2	90.2	8.2	29.4	6.2	6.4	11.5
349	WWFCZ1	S	MID-FLOOD	12-Jun-06	10:27	37.80	25.8	5.70	5.68	98.1	90.8	8.3	20.0	3.1	3.0	13.0	
350	WWFCZ1	M	MID-FLOOD	12-Jun-06			25.6	5.92	5.62	5.73	94.9	88.8	8.3	28.9	4.5	4.4	9.5
351	WWFCZ1	B	MID-FLOOD	12-Jun-06			25.6	5.98	5.73	5.86	96.7	88.6	8.2	28.9	6.5	6.8	12.5
352	WWFCZ2	S	MID-FLOOD	12-Jun-06	10:39	27.60	25.9	5.66	5.48	92.9	86.0	8.2	21.0	3.1	3.3	10.0	
353	WWFCZ2	M	MID-FLOOD	12-Jun-06			25.8	5.67	5.80	5.63	95.5	89.0	8.2	25.1	5.8	5.7	16.5
354	WWFCZ2	B	MID-FLOOD	12-Jun-06			25.6	5.98	5.84	5.91	85.6	89.7	8.2	29.7	7.4	7.2	15.0
355	WFCZR1	S	MID-FLOOD	12-Jun-06	10:55	44.80	25.7	5.73	5.62	94.6	90.0	8.2	21.5	3.0	2.9	7.5	
356	WFCZR1	M	MID-FLOOD	12-Jun-06			25.6	5.91	5.86	5.78	88.6	84.4	8.1	29.1	4.5	4.5	11.5
357	WFCZR1	B	MID-FLOOD	12-Jun-06			25.6	5.88	5.58	5.73	95.5	93.3	8.1	29.6	7.8	7.5	6.0
358	WFCZR2	S	MID-FLOOD	12-Jun-06	10:14	44.00	25.8	5.60	5.47	95.6	86.5	8.3	20.1	3.3	3.0	8.0	
359	WFCZR2	M	MID-FLOOD	12-Jun-06			25.7	5.92	5.80	5.70	89.3	87.4	8.2	28.8	6.9	7.4	13.5
360	WFCZR2	B	MID-FLOOD	12-Jun-06			25.6	5.51	5.43	5.47	96.1	92.0	8.2	29.0	5.9	5.7	18.5

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

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L	Average value	DO, % saturation	pH, Unit	Salinity, ppt	Turbidity, NTU	Averaged Value	Suspended Solid, mg/L	Averaged Value	
361	WWA1	S	MID-EBB	14-Jun-06	14:50	6.90	26.8	5.98	5.86	90.1	87.3	8.1	16.4	7.2	7.6	7.5	
362	WWA1	M	MID-EBB	14-Jun-06			26.8	6.28	6.25	6.09	97.7	94.8	8.1	16.5	6.3	6.6	6.5
363	WWA1	B	MID-EBB	14-Jun-06	14:41	10.00	26.8	6.12	6.05	6.09	99.7	96.3	8.1	16.6	6.2	6.2	6.7
364	WWA2	S	MID-EBB	14-Jun-06			26.9	5.90	5.82	5.97	94.0	89.3	8.1	16.5	5.6	5.4	4.5
365	WWA2	M	MID-EBB	14-Jun-06	14:30	7.10	26.9	6.13	6.04	5.97	96.1	92.4	8.1	16.5	5.4	5.6	6.5
366	WWA2	B	MID-EBB	14-Jun-06			26.9	6.12	6.01	6.07	97.3	93.3	8.1	16.4	5.6	5.5	5.5
367	WWA3	S	MID-EBB	14-Jun-06	15:14	29.10	27.1	6.04	5.91	6.00	92.4	90.3	8.1	16.3	5.3	5.4	6.0
368	WWA3	M	MID-EBB	14-Jun-06			27.0	6.06	6.00	6.00	91.5	89.5	8.1	16.4	7.2	6.4	6.5
369	WWA3	B	MID-EBB	14-Jun-06			26.9	6.01	5.94	5.98	91.6	89.9	8.2	16.2	5.7	5.4	5.9
370	WRA1	S	MID-EBB	14-Jun-06	15:14	29.10	26.9	6.16	6.11	6.01	92.3	87.7	8.2	12.8	4.6	4.6	7.0
371	WRA1	M	MID-EBB	14-Jun-06			26.1	6.49	6.53	6.82	96.7	91.1	8.2	25.9	15.1	14.4	26.5
372	WRA1	B	MID-EBB	14-Jun-06	15:25	26.70	26.0	5.46	5.44	5.45	89.5	86.1	8.2	28.3	10.7	10.7	10.0
373	WRA2	S	MID-EBB	14-Jun-06			26.9	6.19	6.04	6.04	100.5	91.5	8.1	13.0	4.8	5.2	3.3
374	WRA2	M	MID-EBB	14-Jun-06	15:34	25.40	26.5	6.03	5.90	6.04	89.1	88.4	8.1	18.4	4.9	4.9	8.0
375	WRA2	B	MID-EBB	14-Jun-06			26.3	5.82	5.58	5.60	87.0	86.3	8.1	20.1	4.2	4.4	4.7
376	WRA3	S	MID-EBB	14-Jun-06	16:05	37.40	26.9	6.03	5.89	5.76	94.3	90.8	8.2	12.6	4.3	4.5	4.5
377	WRA3	M	MID-EBB	14-Jun-06			26.6	6.10	6.01	6.01	96.6	92.6	8.2	18.0	4.9	4.8	7.0
378	WRA3	B	MID-EBB	14-Jun-06	16:17	34.60	26.2	5.68	5.54	5.61	91.4	87.0	8.2	22.6	4.9	6.0	4.7
379	WWFCZ1	S	MID-EBB	14-Jun-06			27.0	6.03	5.88	5.76	98.2	97.8	8.1	12.7	4.1	4.2	8.5
380	WWFCZ1	M	MID-EBB	14-Jun-06	16:29	40.30	26.3	5.82	5.51	5.92	95.0	90.6	8.1	24.4	4.9	4.9	9.0
381	WWFCZ1	B	MID-EBB	14-Jun-06			26.2	5.54	5.52	5.53	94.5	87.7	8.1	27.0	5.5	3.9	4.6
382	WWFCZ2	S	MID-EBB	14-Jun-06	16:29	40.30	27.0	6.27	6.15	6.03	99.3	96.1	8.2	13.2	7.2	7.7	4.6
383	WWFCZ2	M	MID-EBB	14-Jun-06			26.6	5.86	5.82	6.03	95.8	90.0	8.2	18.7	7.4	7.1	7.5
384	WWFCZ2	B	MID-EBB	14-Jun-06	16:29	40.30	26.7	6.08	6.04	6.06	92.3	88.5	8.2	16.5	9.6	9.5	8.1
385	WFCZR1	S	MID-EBB	14-Jun-06			27.0	5.96	5.92	5.92	93.2	89.1	8.2	12.7	4.0	4.4	4.5
386	WFCZR1	M	MID-EBB	14-Jun-06	15:50	41.60	26.7	5.93	5.85	5.92	96.2	90.7	8.2	15.9	5.1	5.1	6.5
387	WFCZR1	B	MID-EBB	14-Jun-06			26.4	5.93	5.81	5.87	96.1	91.1	8.2	23.0	4.5	4.5	4.6
388	WFCZR2	S	MID-EBB	14-Jun-06	15:50	41.60	27.1	6.16	6.06	5.94	97.6	93.8	8.2	13.1	4.7	4.9	6.0
389	WFCZR2	M	MID-EBB	14-Jun-06			26.5	5.85	5.67	5.94	96.2	90.2	8.2	19.5	5.1	5.0	9.0
390	WFCZR2	B	MID-EBB	14-Jun-06	26.1	5.82	5.56	5.59	88.6	84.6	8.2	27.2	8.8	8.2	6.1		

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

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L	Average value	DO, % saturation	pH, Unit	Salinity, ppt	Turbidity, NTU	Averaged Value	Suspended Solid, mg/L	Averaged Value	
391	WWA1	S	MID-FLOOD	14-Jun-06	10:39	8.40	26.6	5.77	5.59	91.4	86.4	8.2	15.1	4.4	4.6	6.5	
392	WWA1	M	MID-FLOOD	14-Jun-06			26.5	5.71	5.58	5.69	93.4	90.3	8.2	19.2	4.7	4.9	9.0
393	WWA1	B	MID-FLOOD	14-Jun-06	10:49	11.60	26.5	5.81	5.94	5.88	88.1	85.9	8.2	19.5	4.4	4.4	4.6
394	WWA2	S	MID-FLOOD	14-Jun-06			26.6	5.93	5.79	5.81	99.0	94.2	8.1	16.2	5.5	5.4	11.0
395	WWA2	M	MID-FLOOD	14-Jun-06	10:59	8.00	26.5	5.81	5.72	5.81	89.2	86.6	8.2	20.1	5.7	5.7	7.5
396	WWA2	B	MID-FLOOD	14-Jun-06			26.5	5.59	5.49	5.54	84.2	85.0	8.1	19.6	4.3	4.4	5.2
397	WWA3	S	MID-FLOOD	14-Jun-06	10:29	33.00	26.7	5.88	5.82	5.66	93.8	92.1	8.2	17.4	3.8	3.8	7.0
398	WWA3	M	MID-FLOOD	14-Jun-06			26.6	5.48	5.46	5.66	90.5	89.5	8.2	19.8	4.2	4.3	7.0
399	WWA3	B	MID-FLOOD	14-Jun-06	10:13	28.50	26.6	5.57	5.50	5.54	85.6	87.2	8.2	18.5	4.4	4.2	4.1
400	WRA1	S	MID-FLOOD	14-Jun-06			26.1	5.91	5.86	5.76	96.9	92.1	8.2	16.1	4.3	4.6	6.0
401	WRA1	M	MID-FLOOD	14-Jun-06	9:55	27.70	26.0	5.62	5.65	5.94	90.4	90.0	8.2	24.2	5.7	5.4	8.5
402	WRA1	B	MID-FLOOD	14-Jun-06			26.0	5.55	5.47	5.51	88.0	92.1	8.2	26.4	5.2	4.9	5.0
403	WRA2	S	MID-FLOOD	14-Jun-06	9:14	42.00	26.5	5.96	5.93	5.85	92.2	89.6	8.1	18.8	3.9	3.8	5.0
404	WRA2	M	MID-FLOOD	14-Jun-06			25.9	5.97	5.90	5.94	91.8	87.5	8.1	28.4	6.2	6.3	6.5
405	WRA2	B	MID-FLOOD	14-Jun-06	9:26	38.40	25.9	5.87	5.82	5.85	96.2	91.5	8.1	29.3	4.8	5.0	5.0
406	WRA3	S	MID-FLOOD	14-Jun-06			26.5	5.73	5.64	5.66	95.3	91.3	8.2	18.2	4.0	4.0	9.0
407	WRA3	M	MID-FLOOD	14-Jun-06	9:00	43.40	26.5	5.66	5.59	5.66	92.7	91.6	8.2	29.1	4.7	4.3	14.5
408	WRA3	B	MID-FLOOD	14-Jun-06			25.8	5.60	5.51	5.56	94.7	90.2	8.2	29.0	5.2	5.5	4.6
409	WWFCZ1	S	MID-FLOOD	14-Jun-06	9:14	42.00	26.5	5.91	5.94	5.80	88.5	86.9	8.2	16.3	3.4	3.7	6.0
410	WWFCZ1	M	MID-FLOOD	14-Jun-06			26.0	5.90	5.86	5.90	91.5	87.3	8.2	19.9	6.1	6.1	9.0
411	WWFCZ1	B	MID-FLOOD	14-Jun-06	9:26	38.40	25.9	5.77	5.82	5.80	87.3	86.9	8.2	28.3	5.9	6.9	5.3
412	WWFCZ2	S	MID-FLOOD	14-Jun-06			26.3	5.77	5.62	5.80	95.1	88.9	8.2	19.6	4.0	4.3	9.5
413	WWFCZ2	M	MID-FLOOD	14-Jun-06	9:00	43.40	26.0	5.99	5.84	5.81	93.1	87.1	8.2	26.3	4.7	4.4	8.5
414	WWFCZ2	B	MID-FLOOD	14-Jun-06			26.0	5.56	5.46	5.51	89.0	88.2	8.2	10.3	3.6	3.6	4.1
415	WFCZR1	S	MID-FLOOD	14-Jun-06	9:39	35.30	27.0	5.85	5.76	5.57	89.6	87.3	8.3	16.2	5.9	5.8	6.5
416	WFCZR1	M	MID-FLOOD	14-Jun-06			26.4	5.56	5.46	5.66	90.0	85.7	8.2	26.9	6.0	6.0	12.5
417	WFCZR1	B	MID-FLOOD	14-Jun-06	9:39	35.30	26.2	5.60	5.55	5.58	94.1	89.7	8.3	24.8	5.5	5.6	5.8
418	WFCZR2	S	MID-FLOOD	14-Jun-06			26.5	5.62	5.58	5.57	93.8	87.5	8.2	18.5	4.2	4.2	3.5
419	WFCZR2	M	MID-FLOOD	14-Jun-06	9:39	35.30	26.1	5.54	5.52	5.57	89.8	85.8	8.2	27.2	4.4	4.0	8.0
420	WFCZR2	B	MID-FLOOD	14-Jun-06			25.9	5.54	5.52	5.53	96.4	89.7	8.2	22.2	4.5	5.4	4.4

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

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L	Average value	DO, % saturation	pH, Unit	Salinity, ppt	Turbidity, NTU	Averaged Value	Suspended Solid, mg/L	Averaged Value		
421	WWA1	S	MID-EBB	16-Jun-06	15:20	8.50	27.5	6.20	6.13	96.6	93.0	7.8	13.3	3.7	3.5	6.0		
422	WWA1	M	MID-EBB	16-Jun-06			27.1	5.97	5.83	6.03	96.5	91.5	7.8	17.2	4.7		4.6	7.0
423	WWA1	B	MID-EBB	16-Jun-06			27.2	5.98	5.90	5.94	94.1	91.1	7.8	16.7	5.0		4.9	7.5
424	WWA2	S	MID-EBB	16-Jun-06	15:10	9.00	27.0	5.67	5.61	90.0	85.1	7.9	19.6	4.3	4.5	5.0		
425	WWA2	M	MID-EBB	16-Jun-06			27.3	6.00	5.91	5.80	95.8	93.4	7.9	13.0	4.7		4.8	5.5
426	WWA2	B	MID-EBB	16-Jun-06			27.2	5.94	5.88	5.91	92.1	89.5	7.9	16.9	4.5		4.9	7.0
427	WWA3	S	MID-EBB	16-Jun-06	15:00	6.70	27.5	6.10	6.03	91.1	86.9	7.8	16.9	5.4	5.0	7.5		
428	WWA3	M	MID-EBB	16-Jun-06			27.2	5.79	5.76	5.92	88.7	86.9	7.8	18.3	4.1		4.5	5.5
429	WWA3	B	MID-EBB	16-Jun-06			27.3	5.95	5.92	5.94	96.1	92.2	7.8	15.5	4.4		4.2	11.5
430	WRA1	S	MID-EBB	16-Jun-06	15:32	26.50	27.4	6.15	6.02	100.3	95.3	8.0	12.7	4.1	4.1	4.5		
431	WRA1	M	MID-EBB	16-Jun-06			26.4	5.82	5.80	5.95	97.8	89.4	8.0	27.3	7.0		5.0	9.0
432	WRA1	B	MID-EBB	16-Jun-06			26.1	5.60	5.55	5.58	90.9	85.3	8.0	29.5	6.9		6.6	11.5
433	WRA2	S	MID-EBB	16-Jun-06	15:46	27.00	27.3	6.05	5.98	100.7	97.8	7.8	13.1	5.2	4.5	6.0		
434	WRA2	M	MID-EBB	16-Jun-06			26.4	5.97	5.75	5.94	96.8	91.5	7.8	26.3	5.9		5.8	8.5
435	WRA2	B	MID-EBB	16-Jun-06			26.3	5.75	5.62	5.69	89.7	84.3	7.8	28.9	2.9		3.4	10.5
436	WRA3	S	MID-EBB	16-Jun-06	15:58	27.80	27.1	5.86	5.81	92.4	92.3	7.8	13.2	4.3	4.4	4.5		
437	WRA3	M	MID-EBB	16-Jun-06			26.3	5.61	5.58	5.72	89.4	86.3	7.8	25.6	5.8		6.1	12.5
438	WRA3	B	MID-EBB	16-Jun-06			26.2	5.03	5.12	5.08	89.4	86.4	7.8	27.1	5.2		5.5	12.0
439	WWFCZ1	S	MID-EBB	16-Jun-06	16:25	38.40	26.5	5.97	5.92	90.6	87.2	8.0	12.8	4.5	4.5	3.0		
440	WWFCZ1	M	MID-EBB	16-Jun-06			27.4	6.22	6.12	6.06	96.6	93.6	8.0	27.8	4.4		4.5	6.0
441	WWFCZ1	B	MID-EBB	16-Jun-06			27.0	5.66	5.45	5.56	99.9	90.4	8.0	27.7	5.3		4.8	5.5
442	WWFCZ2	S	MID-EBB	16-Jun-06	16:38	34.70	26.4	5.83	5.86	93.3	88.5	7.9	13.7	3.8	3.8	6.5		
443	WWFCZ2	M	MID-EBB	16-Jun-06			27.3	6.07	5.98	5.94	95.7	92.3	7.9	26.3	4.3		4.3	4.0
444	WWFCZ2	B	MID-EBB	16-Jun-06			26.2	5.49	5.43	5.46	93.6	87.9	7.9	28.8	5.3		5.6	5.5
445	WFCZR1	S	MID-EBB	16-Jun-06	16:52	40.10	27.5	6.13	6.03	97.9	94.0	7.9	12.8	4.1	4.4	4.3		
446	WFCZR1	M	MID-EBB	16-Jun-06			26.5	5.99	5.89	6.01	91.3	85.3	7.9	24.3	4.8		4.7	5.0
447	WFCZR1	B	MID-EBB	16-Jun-06			26.3	5.80	5.72	5.76	94.8	90.1	7.9	26.6	4.6		4.8	5.0
448	WFCZR2	S	MID-EBB	16-Jun-06	16:12	42.20	27.3	6.15	5.98	98.7	94.8	7.8	13.1	4.0	4.2	4.0		
449	WFCZR2	M	MID-EBB	16-Jun-06			26.1	5.59	5.55	5.82	92.1	89.0	7.8	27.7	5.3		5.4	7.5
450	WFCZR2	B	MID-EBB	16-Jun-06			26.1	5.56	5.57	5.57	90.9	86.3	7.8	28.7	6.0		5.9	7.0

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

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L	Average value	DO, % saturation	pH, Unit	Salinity, ppt	Turbidity, NTU	Averaged Value	Suspended Solid, mg/L	Averaged Value		
451	WWA1	S	MID-FLOOD	16-Jun-06	10:49	6.80	26.7	6.02	5.97	90.7	86.7	8.0	20.0	4.2	4.6	9.5		
452	WWA1	M	MID-FLOOD	16-Jun-06			26.9	5.63	5.62	5.81	91.3	88.1	8.0	20.5	4.2		4.1	5.0
453	WWA1	B	MID-FLOOD	16-Jun-06			26.8	5.68	5.55	5.62	93.8	89.7	8.0	21.2	3.8		3.6	4.5
454	WWA2	S	MID-FLOOD	16-Jun-06	10:59	9.40	26.6	5.70	5.61	93.2	91.6	8.0	19.9	4.5	4.7	9.5		
455	WWA2	M	MID-FLOOD	16-Jun-06			26.1	5.85	5.67	5.71	98.5	94.4	8.0	21.1	3.9		4.0	5.5
456	WWA2	B	MID-FLOOD	16-Jun-06			26.1	5.48	5.43	5.46	92.1	88.2	8.0	21.6	4.4		4.2	7.5
457	WWA3	S	MID-FLOOD	16-Jun-06	11:10	6.80	26.6	5.85	5.84	86.6	87.9	8.0	21.0	4.4	4.3	9.0		
458	WWA3	M	MID-FLOOD	16-Jun-06			26.7	5.53	5.25	5.82	91.9	87.6	8.0	23.4	4.4		4.6	5.5
459	WWA3	B	MID-FLOOD	16-Jun-06			26.5	5.58	5.41	5.50	98.2	91.2	8.0	23.1	4.3		4.6	6.5
460	WRA1	S	MID-FLOOD	16-Jun-06	11:14	34.70	26.4	5.93	5.82	90.6	85.8	8.0	23.8	4.5	4.5	9.0		
461	WRA1	M	MID-FLOOD	16-Jun-06			26.5	6.06	6.07	5.97	85.6	84.4	8.0	24.8	4.2		4.7	5.0
462	WRA1	B	MID-FLOOD	16-Jun-06			26.4	6.03	5.83	5.93	92.1	86.1	8.0	27.4	5.5		5.5	9.0
463	WRA2	S	MID-FLOOD	16-Jun-06	11:04	24.00	26.6	5.92	5.90	96.6	91.2	8.0	20.1	3.5	3.5	7.0		
464	WRA2	M	MID-FLOOD	16-Jun-06			26.1	5.73	5.71	5.82	94.5	89.0	8.0	28.8	4.9		5.2	7.5
465	WRA2	B	MID-FLOOD	16-Jun-06			26.2	5.89	5.90	5.90	88.4	86.6	8.0	29.0	6.2		5.9	9.5
466	WRA3	S	MID-FLOOD	16-Jun-06	10:54	24.60	26.7	5.94	5.63	97.3	92.4	8.0	21.2	3.5	3.5	4.5		
467	WRA3	M	MID-FLOOD	16-Jun-06			26.2	6.01	5.89	5.87	88.9	84.8	8.0	29.7	7.1		6.5	9.5
468	WRA3	B	MID-FLOOD	16-Jun-06			26.2	5.71	5.65	5.68	86.4	85.1	8.0	28.4	5.6		5.3	11.0
469	WWFCZ1	S	MID-FLOOD	16-Jun-06	10:26	40.80	26.3	5.99	5.94	89.5	85.1	8.0	23.3	4.1	4.1	13.5		
470	WWFCZ1	M	MID-FLOOD	16-Jun-06			26.1	5.60	5.62	5.79	87.4	86.2	8.0	29.3	6.5		6.7	13.0
471	WWFCZ1	B	MID-FLOOD	16-Jun-06			26.2	5.66	5.63	5.65	89.9	84.6	8.0	26.6	9.7		9.1	16.0
472	WWFCZ2	S	MID-FLOOD	16-Jun-06	10:13	34.50	26.7	5.92	5.84	92.4	89.2	7.9	20.0	4.8	4.6	9.0		
473	WWFCZ2	M	MID-FLOOD	16-Jun-06			26.1	5.80	5.72	5.82	96.0	88.7	7.9	29.6	9.7		9.9	18.0
474	WWFCZ2	B	MID-FLOOD	16-Jun-06			26.0	5.54	5.50	5.52	92.3	85.5	7.9	30.3	7.6		8.0	18.0
475	WFCZR1	S	MID-FLOOD	16-Jun-06	10:00	42.70	27.2	5.90	5.80	94.5	90.5	8.0	19.3	7.4	7.7	7.5		
476	WFCZR1	M	MID-FLOOD	16-Jun-06			26.3	5.80	5.78	5.82	86.9	86.0	8.0	26.0	14.0		14.9	11.5
477	WFCZR1	B	MID-FLOOD	16-Jun-06			26.0	5.71	5.68	5.70	91.0	85.4	8.0	31.0	8.6		8.3	23.0
478	WFCZR2	S	MID-FLOOD	16-Jun-06	10:40	39.50	26.8	5.88	5.74	94.1	89.7	7.9	13.1	4.9	4.4	5.0		
479	WFCZR2	M	MID-FLOOD	16-Jun-06			26.2	5.65	5.61	5.72	88.2	88.0	7.9	26.2	9.1		8.5	13.0
480	WFCZR2	B	MID-FLOOD	16-Jun-06			26.0	5.97	5.81	5.85	95.0	89.4	7.9	28.9	8.9		9.2	11.0

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

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L	Average value	DO, % saturation	pH, Unit	Salinity, ppt	Turbidity, NTU	Averaged Value	Suspended Solid, mg/L	Averaged Value								
481	WWA1	S	MID-EBB	19-Jun-06	12:20	7.00	26.9	6.11	5.95	102.3	96.1	8.0	13.0	5.3	4.5	6.0								
482	WWA1	M	MID-EBB	19-Jun-06			26.8	5.78	5.66								5.88	94.9	90.9	8.0	17.8	4.2	4.0	7.0
483	WWA1	B	MID-EBB	19-Jun-06			26.6	5.89	5.79								5.84	90.6	87.2	8.0	22.5	4.3	4.2	4.4
484	WWA2	S	MID-EBB	19-Jun-06	12:11	12.00	27.0	6.22	6.12	100.2	96.5	8.3	12.9	3.2	3.7	5.0								
485	WWA2	M	MID-EBB	19-Jun-06			26.6	5.98	5.72								6.01	102.8	96.4	8.0	20.9	6.5	6.3	6.0
486	WWA2	B	MID-EBB	19-Jun-06			26.4	5.56	5.50								5.53	100.4	92.9	8.1	23.1	6.9	7.1	5.6
487	WWA3	S	MID-EBB	19-Jun-06	12:00	10.00	26.9	5.98	5.85	100.4	94.7	8.0	12.8	4.5	4.8	6.0								
488	WWA3	M	MID-EBB	19-Jun-06			26.6	5.80	5.78								5.85	97.1	90.1	8.0	20.6	4.7	4.6	8.0
489	WWA3	B	MID-EBB	19-Jun-06			26.5	5.50	5.46								5.48	97.4	90.4	8.0	21.1	5.0	4.7	4.7
490	WRA1	S	MID-EBB	19-Jun-06	12:31	34.00	26.9	6.20	6.10	97.6	94.3	8.0	12.8	4.8	4.2	5.5								
491	WRA1	M	MID-EBB	19-Jun-06			26.0	5.90	5.84								5.96	92.2	86.4	8.0	28.8	4.8	4.3	10.0
492	WRA1	B	MID-EBB	19-Jun-06			25.9	5.70	5.67								5.69	101.1	96.1	8.0	28.6	4.9	4.6	4.6
493	WRA2	S	MID-EBB	19-Jun-06	12:43	28.20	26.8	6.02	5.91	99.8	94.6	8.0	14.4	3.1	3.8	10.5								
494	WRA2	M	MID-EBB	19-Jun-06			25.9	5.74	5.60								5.82	91.0	86.2	8.0	29.7	7.1	7.5	9.0
495	WRA2	B	MID-EBB	19-Jun-06			25.8	5.77	5.53								5.65	94.7	96.5	8.0	30.9	8.4	8.5	6.4
496	WRA3	S	MID-EBB	19-Jun-06	12:55	25.30	26.7	6.12	5.96	99.7	94.9	8.0	15.0	4.4	4.3	4.5								
497	WRA3	M	MID-EBB	19-Jun-06			26.4	5.62	5.60								5.83	94.3	88.9	8.0	23.7	5.1	5.0	9.5
498	WRA3	B	MID-EBB	19-Jun-06			25.9	5.71	5.62								5.67	87.0	90.3	8.0	29.5	4.5	5.1	4.7
499	WWFCZ1	S	MID-EBB	19-Jun-06	13:19	31.50	26.9	6.13	5.98	101.0	96.0	8.0	14.9	4.3	4.1	12.0								
500	WWFCZ1	M	MID-EBB	19-Jun-06			25.9	5.84	5.68								5.91	99.0	92.6	8.0	29.7	9.6	9.0	20.0
501	WWFCZ1	B	MID-EBB	19-Jun-06			26.7	5.70	5.62								5.66	102.1	90.9	8.0	31.7	9.3	9.3	7.6
502	WWFCZ2	S	MID-EBB	19-Jun-06	13:30	37.50	26.7	5.91	5.71	94.8	91.0	8.0	18.8	4.2	4.0	11.0								
503	WWFCZ2	M	MID-EBB	19-Jun-06			26.4	5.82	5.84								5.77	100.8	96.0	8.0	24.1	5.3	5.1	14.5
504	WWFCZ2	B	MID-EBB	19-Jun-06			25.8	5.83	5.75								5.79	99.2	93.8	8.0	31.0	7.1	7.2	5.5
505	WFCZR1	S	MID-EBB	19-Jun-06	13:42	42.00	26.5	6.06	5.87	101.3	97.1	8.0	19.7	4.0	4.0	6.5								
506	WFCZR1	M	MID-EBB	19-Jun-06			25.8	5.52	5.42								5.72	92.2	90.6	8.0	31.3	11.7	11.9	12.0
507	WFCZR1	B	MID-EBB	19-Jun-06			25.6	5.82	5.86								5.89	86.3	83.3	8.0	32.0	10.6	8.6	8.5
508	WFCZR2	S	MID-EBB	19-Jun-06	13:08	41.60	26.8	5.85	5.78	99.8	97.1	8.0	14.7	4.3	4.5	8.5								
509	WFCZR2	M	MID-EBB	19-Jun-06			26.2	5.89	5.68								5.80	92.9	87.6	8.0	26.5	6.0	5.8	5.5
510	WFCZR2	B	MID-EBB	19-Jun-06			26.4	5.49	5.42								5.46	93.4	89.0	8.0	24.3	4.2	4.6	4.9

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

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L	Average value	DO, % saturation	pH, Unit	Salinity, ppt	Turbidity, NTU	Averaged Value	Suspended Solid, mg/L	Averaged Value								
511	WWA1	S	MID-FLOOD	19-Jun-06	18:47	11.50	26.5	5.90	5.83	92.6	88.7	8.1	23.9	4.8	4.6	4.5								
512	WWA1	M	MID-FLOOD	19-Jun-06			26.4	5.89	5.90								5.88	89.2	85.3	8.0	26.6	4.5	4.2	9.0
513	WWA1	B	MID-FLOOD	19-Jun-06			26.4	5.46	5.44								5.45	90.0	89.9	8.0	27.0	4.2	4.3	4.4
514	WWA2	S	MID-FLOOD	19-Jun-06	18:52	13.20	26.7	5.85	5.67	89.1	86.4	8.1	23.3	3.2	3.6	7.5								
515	WWA2	M	MID-FLOOD	19-Jun-06			26.6	5.90	5.71								5.78	87.9	87.5	8.1	24.9	6.5	6.3	6.5
516	WWA2	B	MID-FLOOD	19-Jun-06			26.5	5.34	5.31								5.33	91.0	86.6	8.1	26.4	6.1	6.3	5.3
517	WWA3	S	MID-FLOOD	19-Jun-06	19:06	9.00	26.5	5.97	5.94	98.8	92.1	8.1	26.0	4.7	4.6	6.0								
518	WWA3	M	MID-FLOOD	19-Jun-06			26.4	5.92	5.80								5.91	91.2	86.8	8.0	26.7	4.7	4.6	12.0
519	WWA3	B	MID-FLOOD	19-Jun-06			26.5	5.80	5.45								5.53	89.2	85.7	8.1	26.7	4.8	4.8	4.7
520	WRA1	S	MID-FLOOD	19-Jun-06	18:37	33.50	26.5	5.67	5.51	95.9	90.2	8.1	23.8	4.7	4.7	8.5								
521	WRA1	M	MID-FLOOD	19-Jun-06			26.1	5.71	5.63								5.63	96.5	91.2	8.1	29.2	4.7	4.9	9.5
522	WRA1	B	MID-FLOOD	19-Jun-06			26.0	5.73	5.64								5.69	97.3	92.3	8.1	30.5	4.8	4.8	4.8
523	WRA2	S	MID-FLOOD	19-Jun-06	18:25	28.00	26.6	5.56	5.44	96.8	92.2	8.1	23.6	3.3	3.6	9.0								
524	WRA2	M	MID-FLOOD	19-Jun-06			26.3	5.42	5.45								5.47	92.8	88.1	8.1	27.9	7.0	6.7	9.0
525	WRA2	B	MID-FLOOD	19-Jun-06			26.1	5.44	5.40								5.42	93.6	88.5	8.1	28.6	8.2	8.2	6.2
526	WRA3	S	MID-FLOOD	19-Jun-06	18:15	28.70	26.6	5.83	5.77	96.2	95.0	8.1	24.6	4.2	4.2	13.0								
527	WRA3	M	MID-FLOOD	19-Jun-06			26.4	5.82	5.65								5.77	96.6	89.8	8.1	25.4	5.2	5.0	10.5
528	WRA3	B	MID-FLOOD	19-Jun-06			25.9	5.40	5.41								5.41	88.8	83.4	8.1	32.2	4.3	4.4	4.5
529	WWFCZ1	S	MID-FLOOD	19-Jun-06	17:51	38.00	26.5	5.92	5.88	96.3	90.9	8.1	23.6	4.4	4.1	4.0								
530	WWFCZ1	M	MID-FLOOD	19-Jun-06			26.2	5.70	5.62								5.78	95.5	89.9	8.1	26.6	7.6	7.1	18.0
531	WWFCZ1	B	MID-FLOOD	19-Jun-06			26.0	5.79	5.72								5.76	85.1	84.2	8.1	30.1	8.2	8.1	6.6
532	WWFCZ2	S	MID-FLOOD	19-Jun-06	17:40	38.60	26.7	6.16	6.08	98.5	94.7	8.1	18.2	4.2	3.9	13.5								
533	WWFCZ2	M	MID-FLOOD	19-Jun-06			27.0	6.00	5.85								6.02	98.8	95.4	8.0	18.2	4.7	5.0	8.5
534	WWFCZ2	B	MID-FLOOD	19-Jun-06			26.4	5.47	5.40								5.44	88.1	86.2	8.0	30.9	6.2	6.2	5.0
535	WFCZR1	S	MID-FLOOD	19-Jun-06	17:30	44.10	26.9	5.80	5.62	97.2	93.0	8.1	22.3	4.1	4.1	11.5								
536	WFCZR1	M	MID-FLOOD	19-Jun-06			25.9	5.71	5.70								5.71	93.3	85.6	8.1	31.8	8.2	8.2	17.0
537	WFCZR1	B	MID-FLOOD	19-Jun-06			25.7	5.96	5.80								5.88	98.4	92.4	8.1	32.3	9.3	8.2	7.0
538	WFCZR2	S	MID-FLOOD	19-Jun-06	18:05	42.30	26.8	5.81	5.78	95.8	91.2	8.0	19.8	5.0	5.0	12.0								
539	WFCZR2	M	MID-FLOOD	19-Jun-06			26.2	5.87	5.62								5.72	91.2	87.9	8.0	31.6	5.1	5.0	13.5
540	WFCZR2	B	MID-FLOOD	19-Jun-06			25.9	5.52	5.50								5.51	93.0	87.6	8.0	33.1	4.8	4.8	5.0

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

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L	Average value	DO, % saturation	pH, Unit	Salinity, ppt	Turbidity, NTU	Averaged Value	Suspended Solid, mg/L	Averaged Value	
541	WWA1	S	MID-EBB	21-Jun-06	10:19	6.40	27.3	5.60	5.56	100.2	96.8	8.1	21.0	5.1	5.0	6.0	
542	WWA1	M	MID-EBB	21-Jun-06			27.0	5.54	5.50	5.55	93.6	91.2	8.1	23.3	4.2	4.2	4.5
543	WWA1	B	MID-EBB	21-Jun-06			27.0	5.55	5.46	5.51	96.9	91.4	8.1	23.1	4.0	3.9	6.5
544	WWA2	S	MID-EBB	21-Jun-06	10:09	10.40	27.2	5.49	5.45	94.5	89.6	8.1	21.4	3.1	3.2	5.0	
545	WWA2	M	MID-EBB	21-Jun-06			27.3	5.60	5.58	5.53	90.3	86.7	8.1	22.7	6.0	5.9	7.0
546	WWA2	B	MID-EBB	21-Jun-06			27.0	5.63	5.54	5.59	90.9	87.9	8.1	22.0	5.2	5.2	5.5
547	WWA3	S	MID-EBB	21-Jun-06	10:00	7.00	27.2	5.59	5.49	94.7	89.4	8.1	21.3	4.8	4.5	4.0	
548	WWA3	M	MID-EBB	21-Jun-06			27.2	5.84	5.67	5.65	94.3	92.7	8.1	21.8	4.9	4.7	6.5
549	WWA3	B	MID-EBB	21-Jun-06			27.1	5.49	5.45	5.47	97.8	90.4	8.1	22.5	5.0	4.9	11.5
550	WRA1	S	MID-EBB	21-Jun-06	10:31	32.00	27.6	5.86	5.75	94.6	91.7	7.7	17.4	4.8	4.6	4.0	
551	WRA1	M	MID-EBB	21-Jun-06			26.5	5.76	5.69	5.77	91.6	87.0	7.7	28.2	4.5	4.5	15.5
552	WRA1	B	MID-EBB	21-Jun-06			26.2	5.67	5.64	5.86	96.0	89.7	7.7	28.9	4.5	4.6	15.0
553	WRA2	S	MID-EBB	21-Jun-06	10:42	28.40	27.5	5.89	5.79	95.9	92.0	7.8	17.0	5.0	5.1	6.0	
554	WRA2	M	MID-EBB	21-Jun-06			27.6	6.00	5.92	5.90	93.1	89.8	7.8	24.3	4.9	4.8	13.0
555	WRA2	B	MID-EBB	21-Jun-06			26.4	5.63	5.46	5.55	91.4	87.9	7.8	27.0	4.6	4.5	12.0
556	WRA3	S	MID-EBB	21-Jun-06	10:53	27.80	27.5	5.60	5.48	101.4	97.6	7.9	17.5	4.2	4.2	7.0	
557	WRA3	M	MID-EBB	21-Jun-06			26.6	5.56	5.52	5.54	90.0	84.4	7.9	24.8	5.1	5.0	8.0
558	WRA3	B	MID-EBB	21-Jun-06			26.5	5.48	5.41	5.45	90.7	86.2	7.9	25.6	4.9	4.8	12.0
559	WWFCZ1	S	MID-EBB	21-Jun-06	11:29	31.90	27.5	6.09	5.97	94.2	91.4	8.1	15.9	4.2	4.2	10.0	
560	WWFCZ1	M	MID-EBB	21-Jun-06			26.4	5.63	5.60	5.82	93.9	85.9	8.2	24.1	5.5	5.3	15.0
561	WWFCZ1	B	MID-EBB	21-Jun-06			26.4	5.58	5.50	5.54	93.1	88.8	8.2	26.9	6.2	6.2	13.5
562	WWFCZ2	S	MID-EBB	21-Jun-06	11:17	36.80	27.4	6.00	5.92	93.8	92.0	8.1	16.4	4.2	4.2	14.5	
563	WWFCZ2	M	MID-EBB	21-Jun-06			26.5	5.80	5.74	5.87	90.7	87.9	8.1	26.3	4.0	3.9	15.5
564	WWFCZ2	B	MID-EBB	21-Jun-06			26.4	5.52	5.42	5.47	98.0	91.0	8.1	26.2	5.4	5.3	19.5
565	WFCZR1	S	MID-EBB	21-Jun-06	11:42	43.00	27.2	6.04	6.05	97.7	95.0	8.1	16.6	4.1	4.1	8.0	
566	WFCZR1	M	MID-EBB	21-Jun-06			26.7	5.59	5.44	5.78	95.5	91.3	8.1	23.8	4.2	4.3	6.5
567	WFCZR1	B	MID-EBB	21-Jun-06			26.5	5.59	5.46	5.53	92.1	87.6	8.1	24.9	5.1	4.9	5.0
568	WFCZR2	S	MID-EBB	21-Jun-06	11:05	46.00	27.7	6.03	5.94	97.1	94.1	8.2	16.2	4.0	3.8	5.0	
569	WFCZR2	M	MID-EBB	21-Jun-06			26.8	5.62	5.60	5.80	96.3	91.4	8.1	23.5	5.2	5.2	4.5
570	WFCZR2	B	MID-EBB	21-Jun-06			26.5	5.52	5.48	5.50	95.5	88.2	8.1	23.9	4.9	4.9	8.5

G:\env\project\24583\env\_data\Marine\06-06 : Data

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

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L	Average value	DO, % saturation	pH, Unit	Salinity, ppt	Turbidity, NTU	Averaged Value	Suspended Solid, mg/L	Averaged Value	
571	WWA1	S	MID-FLOOD	21-Jun-06	16:39	7.00	28.0	6.22	6.10	102.3	101.4	7.8	16.7	4.5	4.3	10.0	
572	WWA1	M	MID-FLOOD	21-Jun-06			27.6	6.01	5.98	6.08	95.8	95.0	7.8	18.2	4.0	3.8	8.5
573	WWA1	B	MID-FLOOD	21-Jun-06			27.6	5.75	5.70	5.73	98.1	97.4	7.8	18.1	3.9	3.8	7.5
574	WWA2	S	MID-FLOOD	21-Jun-06	16:30	11.20	28.1	6.23	6.19	103.6	102.4	7.9	16.4	4.1	4.1	4.5	
575	WWA2	M	MID-FLOOD	21-Jun-06			27.7	6.10	6.02	6.14	97.5	97.1	7.9	18.4	4.3	4.0	3.0
576	WWA2	B	MID-FLOOD	21-Jun-06			27.7	6.02	5.93	5.98	96.5	96.1	7.9	18.2	4.3	3.8	8.5
577	WWA3	S	MID-FLOOD	21-Jun-06	16:20	7.40	28.2	6.24	6.19	102.4	101.9	7.8	16.7	4.6	4.5	21.5	
578	WWA3	M	MID-FLOOD	21-Jun-06			28.1	6.00	5.96	6.10	99.5	98.8	7.8	17.8	4.5	4.6	16.5
579	WWA3	B	MID-FLOOD	21-Jun-06			27.6	5.89	5.86	5.88	96.2	95.2	7.8	19.4	4.7	4.6	6.0
580	WRA1	S	MID-FLOOD	21-Jun-06	16:12	32.50	27.6	5.81	5.73	96.0	94.1	7.7	18.2	3.4	3.3	6.0	
581	WRA1	M	MID-FLOOD	21-Jun-06			26.4	5.62	5.59	5.69	89.6	88.0	7.7	28.4	4.7	4.6	11.0
582	WRA1	B	MID-FLOOD	21-Jun-06			26.1	5.77	5.74	5.76	92.7	87.4	7.7	29.7	4.5	4.4	8.0
583	WRA2	S	MID-FLOOD	21-Jun-06	16:00	28.60	27.7	6.20	6.18	97.7	96.6	7.7	17.9	3.4	3.5	8.0	
584	WRA2	M	MID-FLOOD	21-Jun-06			26.6	5.86	5.80	6.01	93.3	89.7	7.7	27.2	3.9	4.1	14.5
585	WRA2	B	MID-FLOOD	21-Jun-06			26.2	5.62	5.54	5.58	86.4	85.9	7.7	30.0	5.0	5.1	13.5
586	WRA3	S	MID-FLOOD	21-Jun-06	15:47	28.30	27.8	6.28	6.30	96.0	94.7	7.8	17.8	4.3	4.2	7.0	
587	WRA3	M	MID-FLOOD	21-Jun-06			26.8	5.99	5.94	6.13	94.2	89.6	7.8	24.7	4.1	4.2	7.5
588	WRA3	B	MID-FLOOD	21-Jun-06			26.3	5.85	5.80	5.83	96.1	89.2	7.8	29.3	5.1	5.2	8.5
589	WWFCZ1	S	MID-FLOOD	21-Jun-06	15:12	39.00	27.9	5.99	5.92	99.5	98.7	8.3	17.2	4.3	4.3	6.5	
590	WWFCZ1	M	MID-FLOOD	21-Jun-06			26.8	5.68	5.64	5.81	94.0	89.7	8.2	24.6	6.4	6.0	12.5
591	WWFCZ1	B	MID-FLOOD	21-Jun-06			26.4	5.60	5.55	5.58	90.3	85.8	8.2	27.4	6.2	6.1	9.5
592	WWFCZ2	S	MID-FLOOD	21-Jun-06	15:24	38.20	27.7	6.02	6.00	98.1	97.1	7.6	17.6	3.3	3.2	6.0	
593	WWFCZ2	M	MID-FLOOD	21-Jun-06			26.5	5.71	5.70	5.86	90.1	86.8	7.6	28.0	3.9	3.5	10.0
594	WWFCZ2	B	MID-FLOOD	21-Jun-06			26.3	5.84	5.79	5.82	90.7	88.7	7.6	28.9	5.2	5.1	8.5
595	WFCZR1	S	MID-FLOOD	21-Jun-06	15:00	44.00	28.0	5.93	5.89	95.0	94.1	8.1	15.2	4.2	4.2	4.5	
596	WFCZR1	M	MID-FLOOD	21-Jun-06			26.6	5.69	5.65	5.79	88.6	86.4	8.1	27.7	7.2	7.0	6.5
597	WFCZR1	B	MID-FLOOD	21-Jun-06			26.4	5.76	5.60	5.68	91.3	86.8	8.1	28.4	5.4	5.3	5.5
598	WFCZR2	S	MID-FLOOD	21-Jun-06	15:35	43.60	27.6	6.08	6.00	98.1	95.2	7.7	18.2	5.0	4.8	4.0	
599	WFCZR2	M	MID-FLOOD	21-Jun-06			26.5	5.96	5.90	5.99	96.8	91.6	7.7	27.8	4.1	4.1	8.5
600	WFCZR2	B	MID-FLOOD	21-Jun-06			26.6	5.60	5.51	5.56	94.9	90.8	7.7	27.5	3.2	5.1	7.5

G:\env\project\24583\env\_data\Marine\06-06 : Data

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

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L	Average value	DO, % saturation	pH, Unit	Salinity, ppt	Turbidity, NTU	Averaged Value	Suspended Solid, mg/L	Averaged Value	
601	WWA1	S	MID-EBB	23-Jun-06	10:50	6.80	27.6	6.78	6.77	101.6	100.6	7.8	22.0	2.8	3.0	8.5	
602	WWA1	M	MID-EBB	23-Jun-06			27.6	6.75	6.70	6.75	98.9	97.6	7.8	22.1	4.0	4.1	10.0
603	WWA1	B	MID-EBB	23-Jun-06			27.6	7.08	6.99	7.04	98.1	96.8	7.8	22.1	3.9	3.9	3.6
604	WWA2	S	MID-EBB	23-Jun-06	10:41	9.80	27.6	7.08	6.99	106.2	105.7	7.4	22.0	3.2	3.2	11.0	
605	WWA2	M	MID-EBB	23-Jun-06			27.6	6.88	6.90	6.96	99.3	98.6	7.4	22.2	4.2	4.2	11.5
606	WWA2	B	MID-EBB	23-Jun-06			27.6	6.62	6.59	6.61	98.5	97.4	7.4	22.3	5.2	5.1	4.2
607	WWA3	S	MID-EBB	23-Jun-06	10:30	6.90	27.6	6.32	6.29	102.2	101.5	8.4	22.2	4.6	4.3	11.0	
608	WWA3	M	MID-EBB	23-Jun-06			27.5	6.84	6.78	6.56	103.5	103.4	8.4	22.3	4.9	4.7	10.0
609	WWA3	B	MID-EBB	23-Jun-06			27.3	6.54	6.44	6.49	102.5	101.5	8.4	22.3	4.0	3.9	4.4
610	WRA1	S	MID-EBB	23-Jun-06	11:02	30.00	28.4	7.52	7.88	110.4	110.5	7.9	16.5	4.6	4.4	8.5	
611	WRA1	M	MID-EBB	23-Jun-06			26.4	6.92	6.85	7.29	92.9	88.5	8.0	28.2	4.2	4.3	13.0
612	WRA1	B	MID-EBB	23-Jun-06			26.2	5.86	5.78	5.82	90.6	86.4	7.9	29.4	4.0	3.9	4.2
613	WRA2	S	MID-EBB	23-Jun-06	11:13	26.70	28.4	7.12	7.10	115.5	114.9	8.0	16.5	4.8	4.8	9.5	
614	WRA2	M	MID-EBB	23-Jun-06			28.5	6.03	5.89	6.54	95.6	93.7	8.1	23.5	4.0	3.8	7.0
615	WRA2	B	MID-EBB	23-Jun-06			26.7	5.48	5.46	5.47	88.4	85.6	8.0	28.6	4.1	4.1	4.3
616	WRA3	S	MID-EBB	23-Jun-06	11:25	27.00	28.2	7.46	7.45	118.0	119.9	7.9	17.1	4.1	4.3	13.5	
617	WRA3	M	MID-EBB	23-Jun-06			27.1	5.90	5.69	6.63	94.8	92.3	7.9	24.0	4.0	3.9	8.5
618	WRA3	B	MID-EBB	23-Jun-06			26.5	5.53	5.45	5.49	91.3	87.6	7.9	28.0	3.8	3.6	3.9
619	WWFCZ1	S	MID-EBB	23-Jun-06	12:02	36.80	28.3	6.77	6.80	113.4	110.0	8.5	16.3	4.2	4.0	7.5	
620	WWFCZ1	M	MID-EBB	23-Jun-06			26.9	6.07	6.01	6.41	93.9	90.9	8.5	26.9	4.3	4.1	7.0
621	WWFCZ1	B	MID-EBB	23-Jun-06			27.2	5.59	5.60	5.60	96.5	95.2	8.5	22.4	5.8	5.5	4.7
622	WWFCZ2	S	MID-EBB	23-Jun-06	11:50	35.10	28.5	6.58	6.54	113.2	112.0	8.5	16.1	4.1	4.2	8.0	
623	WWFCZ2	M	MID-EBB	23-Jun-06			28.8	5.89	5.80	6.20	92.4	88.5	8.5	27.1	4.0	3.9	12.0
624	WWFCZ2	B	MID-EBB	23-Jun-06			26.3	5.78	5.71	5.75	89.5	86.9	8.5	28.5	3.3	3.6	3.8
625	WFCZR1	S	MID-EBB	23-Jun-06	12:15	40.40	28.5	6.11	6.05	112.4	113.0	8.5	17.2	4.1	4.3	4.5	
626	WFCZR1	M	MID-EBB	23-Jun-06			27.3	5.92	5.81	5.97	97.8	96.5	8.5	22.6	4.1	4.1	5.0
627	WFCZR1	B	MID-EBB	23-Jun-06			27.0	5.65	5.62	5.64	87.9	87.6	8.5	24.1	4.0	3.8	4.1
628	WFCZR2	S	MID-EBB	23-Jun-06	11:38	36.20	28.6	7.09	7.15	105.8	103.5	8.5	15.6	3.7	3.6	5.5	
629	WFCZR2	M	MID-EBB	23-Jun-06			27.3	6.08	5.98	6.58	97.1	94.1	8.5	24.5	3.9	3.6	6.0
630	WFCZR2	B	MID-EBB	23-Jun-06			26.7	5.63	5.48	5.56	95.3	89.9	8.5	27.4	3.9	3.9	3.8

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

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L	Average value	DO, % saturation	pH, Unit	Salinity, ppt	Turbidity, NTU	Averaged Value	Suspended Solid, mg/L	Averaged Value	
631	WWA1	S	MID-FLOOD	23-Jun-06	16:57	7.20	27.5	6.53	6.49	101.7	100.5	7.9	23.1	4.6	4.6	9.5	
632	WWA1	M	MID-FLOOD	23-Jun-06			27.5	6.62	6.60	6.56	98.7	97.6	7.9	23.2	3.2	3.2	8.5
633	WWA1	B	MID-FLOOD	23-Jun-06			27.5	6.79	6.63	6.71	98.8	97.5	7.9	23.2	3.8	3.8	3.9
634	WWA2	S	MID-FLOOD	23-Jun-06	16:42	8.90	27.8	6.75	6.63	103.2	101.6	7.9	21.9	4.1	4.1	11.5	
635	WWA2	M	MID-FLOOD	23-Jun-06			27.6	6.72	6.65	6.69	102.3	101.7	7.9	22.3	4.1	4.2	13.5
636	WWA2	B	MID-FLOOD	23-Jun-06			27.6	6.47	6.51	6.49	89.4	88.7	7.9	22.2	4.0	3.9	4.1
637	WWA3	S	MID-FLOOD	23-Jun-06	16:30	7.90	27.7	6.27	6.13	110.2	109.0	7.9	21.7	3.9	3.9	10.5	
638	WWA3	M	MID-FLOOD	23-Jun-06			27.6	6.53	6.49	6.36	102.7	101.5	7.8	23.1	4.1	4.1	10.0
639	WWA3	B	MID-FLOOD	23-Jun-06			27.5	6.47	6.43	6.45	102.3	101.6	7.9	22.9	4.4	4.2	4.1
640	WRA1	S	MID-FLOOD	23-Jun-06	17:10	31.20	27.5	6.24	6.13	112.3	109.5	7.9	17.2	3.2	3.7	4.5	
641	WRA1	M	MID-FLOOD	23-Jun-06			27.3	6.09	6.07	6.13	98.7	97.2	7.9	25.4	3.7	3.7	10.0
642	WRA1	B	MID-FLOOD	23-Jun-06			27.1	5.98	5.83	5.91	96.8	95.4	7.9	25.3	4.2	6.2	4.1
643	WRA2	S	MID-FLOOD	23-Jun-06	17:21	28.30	27.7	6.32	6.13	109.2	108.3	7.9	17.2	3.4	3.7	11.0	
644	WRA2	M	MID-FLOOD	23-Jun-06			27.5	6.07	6.01	6.13	105.7	104.8	7.9	26.5	3.9	3.8	9.0
645	WRA2	B	MID-FLOOD	23-Jun-06			27.3	5.99	5.83	5.91	101.5	100.3	7.9	26.9	4.3	4.1	3.9
646	WRA3	S	MID-FLOOD	23-Jun-06	17:33	27.90	27.9	6.12	6.11	108.7	107.2	7.9	17.3	4.2	4.2	8.5	
647	WRA3	M	MID-FLOOD	23-Jun-06			26.9	6.24	6.17	6.16	109.2	108.3	7.9	22.9	4.2	4.3	9.0
648	WRA3	B	MID-FLOOD	23-Jun-06			26.8	6.09	6.03	6.06	107.2	106.3	7.9	23.7	5.2	5.3	4.5
649	WWFCZ1	S	MID-FLOOD	23-Jun-06	18:12	37.40	27.1	6.53	6.47	114.2	112.7	7.9	17.2	4.2	4.1	10.0	
650	WWFCZ1	M	MID-FLOOD	23-Jun-06			27.0	5.71	5.82	6.13	98.3	97.2	7.9	25.5	5.3	5.1	9.0
651	WWFCZ1	B	MID-FLOOD	23-Jun-06			27.0	5.69	5.66	5.68	94.9	93.2	7.9	23.4	5.4	5.3	4.9
652	WWFCZ2	S	MID-FLOOD	23-Jun-06	17:59	36.80	27.5	6.42	6.37	110.2	105.7	7.9	17.1	3.4	3.2	15.5	
653	WWFCZ2	M	MID-FLOOD	23-Jun-06			26.9	6.24	6.13	6.29	106.8	104.3	7.9	26.9	3.8	3.6	11.0
654	WWFCZ2	B	MID-FLOOD	23-Jun-06			26.8	6.07	6.05	6.06	107.2	106.3	7.9	25.3	4.9	4.8	4.0
655	WFCZR1	S	MID-FLOOD	23-Jun-06	18:24	40.90	28.0	6.13	6.07	105.4	103.6	7.9	26.9	4.3	4.2	10.0	
656	WFCZR1	M	MID-FLOOD	23-Jun-06			26.3	5.98	5.96	6.04	98.7	97.5	7.9	25.3	5.2	5.1	12.0
657	WFCZR1	B	MID-FLOOD	23-Jun-06			26.5	5.47	5.44	5.46	95.4	93.7	7.9	24.2	5.4	5.4	4.9
658	WFCZR2	S	MID-FLOOD	23-Jun-06	17:45	37.50	28.2	7.02	6.93	113.8	111.9	7.9	17.1	4.8	4.7	16.5	
659	WFCZR2	M	MID-FLOOD	23-Jun-06			28.1	6.58	6.49	6.76	95.7	94.5	7.9	23.9	4.1	4.1	12.5
660	WFCZR2	B	MID-FLOOD	23-Jun-06			27.9	6.32	6.16	6.24	98.7	97.2	7.9	26.5	5.1	5.1	4.6

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

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L	Average value	DO, % saturation	pH, Unit	Salinity, ppt	Turbidity, NTU	Averaged Value	Suspended Solid, mg/L	Averaged Value	
661	WWA1	S	MID-EBB	26-Jun-06	13:49	6.90	29.5	6.12	6.08	99.4	99.0	7.6	16.7	3.9	3.9	9.0	
662	WWA1	M	MID-EBB	26-Jun-06			29.3	5.86	5.82	5.97	88.2	87.7	7.6	16.7	4.1	4.1	9.5
663	WWA1	B	MID-EBB	26-Jun-06			29.1	5.60	5.54	5.57	85.4	85.1	7.6	16.8	3.2	4.1	12.0
664	WWA2	S	MID-EBB	26-Jun-06	13:40	10.00	29.5	6.16	6.09	100.6	99.6	7.4	16.5	3.2	3.2	9.0	
665	WWA2	M	MID-EBB	26-Jun-06			29.5	5.53	5.43	5.60	90.1	92.2	7.4	16.5	3.1	3.1	9.5
666	WWA2	B	MID-EBB	26-Jun-06			29.4	5.54	5.48	5.51	87.4	87.0	7.4	16.7	2.3	2.9	9.5
667	WWA3	S	MID-EBB	26-Jun-06	13:30	6.60	29.7	6.56	6.48	112.6	108.2	7.3	16.8	4.2	4.2	8.5	
668	WWA3	M	MID-EBB	26-Jun-06			29.6	6.06	6.00	6.28	96.2	94.0	7.3	16.7	4.9	4.8	9.0
669	WWA3	B	MID-EBB	26-Jun-06			29.4	5.67	5.62	5.65	90.2	91.6	7.3	16.9	4.0	3.9	10.5
670	WRA1	S	MID-EBB	26-Jun-06	14:00	31.00	28.9	6.15	6.08	96.4	96.0	8.0	15.6	4.2	4.2	11.5	
671	WRA1	M	MID-EBB	26-Jun-06			27.7	5.65	5.60	5.87	86.4	86.2	8.0	24.5	5.2	5.1	13.0
672	WRA1	B	MID-EBB	26-Jun-06			27.3	5.47	5.45	5.46	85.8	85.2	8.0	24.9	4.3	4.2	14.5
673	WRA2	S	MID-EBB	26-Jun-06	14:13	26.10	29.2	6.23	6.08	94.8	92.6	7.4	16.0	4.0	3.7	11.5	
674	WRA2	M	MID-EBB	26-Jun-06			28.3	5.86	5.81	6.00	92.7	92.1	7.4	20.3	4.2	4.2	8.0
675	WRA2	B	MID-EBB	26-Jun-06			27.4	5.89	5.94	5.92	85.4	85.2	7.4	26.3	5.2	5.2	10.5
676	WRA3	S	MID-EBB	26-Jun-06	14:22	27.50	29.4	6.02	6.01	98.2	94.9	7.5	15.7	4.3	4.2	15.5	
677	WRA3	M	MID-EBB	26-Jun-06			28.7	5.86	5.83	5.93	99.0	98.8	7.5	18.1	5.1	5.2	8.5
678	WRA3	B	MID-EBB	26-Jun-06			28.2	5.58	5.42	5.60	88.6	88.4	7.5	20.4	5.0	4.7	13.0
679	WWFCZ1	S	MID-EBB	26-Jun-06	15:02	35.90	26.1	5.93	5.87	91.9	91.3	8.1	19.4	4.1	5.1	8.0	
680	WWFCZ1	M	MID-EBB	26-Jun-06			27.6	5.54	5.57	5.73	86.5	86.2	8.1	22.2	5.3	5.1	4.5
681	WWFCZ1	B	MID-EBB	26-Jun-06			26.8	5.50	5.48	5.49	86.0	85.4	8.1	26.8	4.0	3.9	5.5
682	WWFCZ2	S	MID-EBB	26-Jun-06	14:47	37.40	29.2	5.91	5.87	98.6	91.4	8.2	15.9	4.1	4.2	8.0	
683	WWFCZ2	M	MID-EBB	26-Jun-06			28.0	5.68	5.64	5.78	86.8	85.3	8.2	21.2	3.9	3.8	4.0
684	WWFCZ2	B	MID-EBB	26-Jun-06			26.7	5.56	5.53	5.55	84.4	84.3	8.3	27.7	5.4	5.1	9.5
685	WFCZR1	S	MID-EBB	26-Jun-06	15:15	40.70	27.8	5.70	5.68	89.7	86.8	8.1	21.5	4.2	4.0	10.0	
686	WFCZR1	M	MID-EBB	26-Jun-06			27.0	5.66	5.60	5.66	89.4	88.0	8.1	20.8	3.9	3.7	7.5
687	WFCZR1	B	MID-EBB	26-Jun-06			26.6	5.42	5.48	5.45	86.2	86.7	8.1	27.4	4.2	4.1	5.5
688	WFCZR2	S	MID-EBB	26-Jun-06	14:35	41.20	29.7	5.92	5.96	99.7	96.4	8.2	15.0	4.0	4.1	8.0	
689	WFCZR2	M	MID-EBB	26-Jun-06			27.5	5.60	5.61	5.77	92.0	90.4	8.2	22.7	4.7	4.3	4.0
690	WFCZR2	B	MID-EBB	26-Jun-06			27.2	5.48	5.44	5.46	86.0	84.0	8.2	25.1	4.3	4.2	5.0

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

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L	Average value	DO, % saturation	pH, Unit	Salinity, ppt	Turbidity, NTU	Averaged Value	Suspended Solid, mg/L	Averaged Value	
691	WWA1	S	MID-FLOOD	26-Jun-06	9:20	8.20	27.8	6.30	6.39	100.2	99.2	8.4	18.5	4.3	4.1	7.5	
692	WWA1	M	MID-FLOOD	26-Jun-06			27.8	5.74	5.68	6.03	86.0	84.8	8.4	23.6	3.9	3.7	6.0
693	WWA1	B	MID-FLOOD	26-Jun-06			27.8	5.46	5.44	5.45	85.0	84.8	8.4	26.0	4.1	4.0	8.5
694	WWA2	S	MID-FLOOD	26-Jun-06	9:11	11.80	28.1	6.47	6.38	95.9	98.1	8.3	21.2	4.2	4.2	6.0	
695	WWA2	M	MID-FLOOD	26-Jun-06			27.3	5.57	5.50	5.98	90.5	87.8	8.3	25.0	3.8	3.7	8.0
696	WWA2	B	MID-FLOOD	26-Jun-06			27.4	5.47	5.42	5.45	89.2	86.8	8.3	26.2	4.1	4.1	6.0
697	WWA3	S	MID-FLOOD	26-Jun-06	9:00	8.80	28.9	6.50	6.45	97.9	96.6	8.4	18.3	4.2	4.1	6.5	
698	WWA3	M	MID-FLOOD	26-Jun-06			28.2	5.97	5.91	6.21	90.3	89.9	8.4	22.4	3.9	3.8	9.0
699	WWA3	B	MID-FLOOD	26-Jun-06			27.4	5.58	5.49	5.54	88.8	86.4	8.4	26.0	4.7	4.7	6.5
700	WRA1	S	MID-FLOOD	26-Jun-06	9:33	34.10	28.9	5.99	6.02	102.6	102.2	8.4	17.8	3.2	3.3	7.0	
701	WRA1	M	MID-FLOOD	26-Jun-06			26.6	5.69	5.59	5.82	88.4	86.6	8.4	29.1	4.4	4.3	8.5
702	WRA1	B	MID-FLOOD	26-Jun-06			26.0	5.45	5.41	5.48	86.6	86.2	8.4	30.2	4.4	4.7	9.0
703	WRA2	S	MID-FLOOD	26-Jun-06	9:45	29.30	28.6	6.20	6.11	102.8	103.3	8.4	17.8	3.4	3.5	9.0	
704	WRA2	M	MID-FLOOD	26-Jun-06			26.9	6.00	5.88	6.05	88.6	86.8	8.4	27.1	4.0	4.1	6.0
705	WRA2	B	MID-FLOOD	26-Jun-06			25.9	5.54	5.49	5.52	86.4	85.2	8.4	31.1	5.2	5.3	11.0
706	WRA3	S	MID-FLOOD	26-Jun-06	9:57	29.00	28.8	6.32	6.10	107.4	106.1	8.0	17.3	4.3	4.2	7.5	
707	WRA3	M	MID-FLOOD	26-Jun-06			26.8	5.96	5.90	6.07	92.7	90.3	8.0	27.0	4.3	4.5	9.0
708	WRA3	B	MID-FLOOD	26-Jun-06			25.4	5.88	5.87	5.68	85.4	82.8	8.0	28.2	4.6	4.4	10.5
709	WWFCZ1	S	MID-FLOOD	26-Jun-06	10:34	36.20	28.7	6.49	6.38	106.6	101.9	8.4	17.3	4.2	3.9	9.0	
710	WWFCZ1	M	MID-FLOOD	26-Jun-06			27.0	6.63	5.58	6.02	91.8	88.7	8.4	26.6	4.1	4.1	6.0
711	WWFCZ1	B	MID-FLOOD	26-Jun-06			26.6	5.66	5.60	5.63	86.8	85.9	8.4	28.0	5.1	5.1	6.5
712	WWFCZ2	S	MID-FLOOD	26-Jun-06	10:22	38.50	29.1	7.06	7.04	115.1	114.3	8.3	17.0	4.0	4.2	6.5	
713	WWFCZ2	M	MID-FLOOD	26-Jun-06			27.3	5.66	5.61	6.34	85.2	84.6	8.3	26.6	3.8	3.8	15.5
714	WWFCZ2	B	MID-FLOOD	26-Jun-06			26.0	5.49	5.45	5.47	84.6	85.2	8.3	29.0	5.0	4.2	8.0
715	WFCZR1	S	MID-FLOOD	26-Jun-06	10:46	45.40	28.9	6.81	6.71	109.7	110.3	8.4	16.8	3.1	3.1	16.0	
716	WFCZR1	M	MID-FLOOD	26-Jun-06			27.4	5.88	5.81	6.30	90.5	89.1	8.4	24.7	3.9	3.8	17.5
717	WFCZR1	B	MID-FLOOD	26-Jun-06			25.9	5.48	5.46	5.47	87.8	87.7	8.4	30.5	4.2	4.2	14.5
718	WFCZR2	S	MID-FLOOD	26-Jun-06	10:09	44.90	28.9	7.00	7.02	113.0	112.7	8.5	17.6	3.9	3.9	6.5	
719	WFCZR2	M	MID-FLOOD	26-Jun-06			26.5	5.96	5.90	6.47	89.6	88.7	8.5	30.1	4.7	4.3	6.0
720	WFCZR2	B	MID-FLOOD	26-Jun-06			26.2	5.81	5.76	5.79	84.7	84.0	8.5	29.7	3.9	3.7	7.5

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

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L	Average value	DO, % saturation	pH, Unit	Salinity, ppt	Turbidity, NTU	Averaged Value	Suspended Solid, mg/L	Averaged Value	
721	WWA1	S	MID-EBB	28-Jun-06	15:24	6.80	27.0	5.24	5.17	93.5	92.7	8.1	20.9	4.0	3.9	8.0	
722	WWA1	M	MID-EBB	28-Jun-06			26.9	5.86	5.73	5.50	96.3	95.4	8.1	22.7	3.9	3.4	9.0
723	WWA1	B	MID-EBB	28-Jun-06			26.8	5.99	5.87	5.93	93.9	92.7	8.1	24.2	3.7	3.7	9.0
724	WWA2	S	MID-EBB	28-Jun-06	15:11	9.70	27.1	5.81	5.75	92.7	91.3	8.1	23.1	3.6	3.4	3.8	
725	WWA2	M	MID-EBB	28-Jun-06			27.0	5.54	5.43	5.63	93.4	92.8	8.1	23.9	4.2	4.1	7.0
726	WWA2	B	MID-EBB	28-Jun-06			27.0	5.97	5.83	5.90	99.5	98.3	8.1	23.7	4.0	3.8	3.9
727	WWA3	S	MID-EBB	28-Jun-06	15:00	6.80	27.1	5.86	5.77	93.8	92.7	8.1	22.9	3.9	3.8	8.5	
728	WWA3	M	MID-EBB	28-Jun-06			27.0	6.09	5.83	5.89	94.6	92.3	8.1	23.1	4.0	4.2	8.0
729	WWA3	B	MID-EBB	28-Jun-06			26.9	5.75	5.72	5.74	96.9	95.8	8.0	23.5	3.9	3.7	3.9
730	WRA1	S	MID-EBB	28-Jun-06	15:40	31.30	27.1	6.37	6.28	94.7	93.8	8.1	20.1	3.2	3.2	3.5	
731	WRA1	M	MID-EBB	28-Jun-06			27.3	6.14	6.09	6.22	97.2	96.7	8.1	25.7	4.2	4.1	7.0
732	WRA1	B	MID-EBB	28-Jun-06			27.1	5.88	5.76	5.82	94.8	93.5	8.1	27.9	4.1	4.3	3.9
733	WRA2	S	MID-EBB	28-Jun-06	15:53	27.10	27.2	5.84	5.73	92.1	91.6	8.1	19.8	4.0	3.6	7.0	
734	WRA2	M	MID-EBB	28-Jun-06			27.1	5.81	5.75	5.78	95.3	94.2	8.1	22.3	3.8	3.8	5.0
735	WRA2	B	MID-EBB	28-Jun-06			27.1	5.77	5.69	5.73	93.9	92.7	8.1	23.8	4.9	4.9	4.2
736	WRA3	S	MID-EBB	28-Jun-06	16:06	26.90	27.1	6.21	6.16	98.7	96.5	8.1	19.7	4.2	4.2	4.5	
737	WRA3	M	MID-EBB	28-Jun-06			27.0	5.97	5.84	6.05	95.4	92.3	8.1	20.3	4.5	4.5	7.5
738	WRA3	B	MID-EBB	28-Jun-06			27.0	5.89	5.81	5.85	93.8	91.6	8.1	22.6	4.5	4.5	4.4
739	WWFCZ1	S	MID-EBB	28-Jun-06	16:47	34.80	27.5	5.54	5.51	96.7	95.4	8.1	19.5	4.2	4.2	5.0	
740	WWFCZ1	M	MID-EBB	28-Jun-06			27.4	5.46	5.39	5.48	91.3	88.6	8.1	24.7	4.2	4.2	6.0
741	WWFCZ1	B	MID-EBB	28-Jun-06			27.4	5.75	5.63	5.69	93.2	91.9	8.1	25.1	4.1	4.1	4.2
742	WWFCZ2	S	MID-EBB	28-Jun-06	16:33	37.20	27.3	5.91	5.88	93.2	91.8	8.1	18.4	4.3	4.2	5.0	
743	WWFCZ2	M	MID-EBB	28-Jun-06			27.3	5.79	5.85	5.86	92.7	91.6	8.1	23.9	4.0	3.8	5.0
744	WWFCZ2	B	MID-EBB	28-Jun-06			27.3	5.63	5.51	5.57	87.2	86.9	8.1	26.8	4.0	3.5	3.9
745	WFCZR1	S	MID-EBB	28-Jun-06	17:01	39.60	27.5	6.07	6.01	90.7	90.1	8.1	19.7	4.1	4.0	9.0	
746	WFCZR1	M	MID-EBB	28-Jun-06			27.4	5.69	5.57	5.84	88.3	88.7	8.1	23.5	3.8	3.6	5.5
747	WFCZR1	B	MID-EBB	28-Jun-06			27.4	5.76	5.71	5.74	93.8	92.7	8.1	24.9	4.1	4.2	3.9
748	WFCZR2	S	MID-EBB	28-Jun-06	16:20	40.50	27.3	6.31	6.29	97.6	96.1	8.1	21.2	3.9	3.9	4.0	
749	WFCZR2	M	MID-EBB	28-Jun-06			27.3	6.13	6.09	6.21	93.7	92.8	8.1	22.7	4.5	4.3	9.0
750	WFCZR2	B	MID-EBB	28-Jun-06			27.1	5.82	5.81	5.82	91.6	90.8	8.1	24.5	4.1	4.1	4.1

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

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L	Average value	DO, % saturation	pH, Unit	Salinity, ppt	Turbidity, NTU	Averaged Value	Suspended Solid, mg/L	Averaged Value	
751	WWA1	S	MID-FLOOD	28-Jun-06	9:00	7.50	27.2	6.31	6.21	98.3	95.5	8.1	20.7	3.9	3.9	5.5	
752	WWA1	M	MID-FLOOD	28-Jun-06			27.1	5.97	5.80	6.07	99.0	95.4	8.1	23.0	4.2	4.2	6.5
753	WWA1	B	MID-FLOOD	28-Jun-06			27.1	6.11	5.95	6.03	94.6	91.5	8.1	23.4	3.6	3.6	3.9
754	WWA2	S	MID-FLOOD	28-Jun-06	9:13	10.30	27.1	5.91	5.75	93.6	92.0	8.1	22.3	4.0	3.9	9.0	
755	WWA2	M	MID-FLOOD	28-Jun-06			27.1	6.02	5.88	5.89	94.0	92.5	8.1	22.9	4.1	4.3	7.5
756	WWA2	B	MID-FLOOD	28-Jun-06			27.1	6.02	5.88	5.94	92.3	90.6	8.0	23.0	3.8	3.6	3.9
757	WWA3	S	MID-FLOOD	28-Jun-06	9:27	7.20	27.1	5.95	5.77	97.7	94.3	8.1	21.8	4.0	3.9	5.5	
758	WWA3	M	MID-FLOOD	28-Jun-06			27.1	6.07	5.85	5.91	95.8	93.8	8.1	23.1	4.2	4.3	10.0
759	WWA3	B	MID-FLOOD	28-Jun-06			27.1	6.15	5.88	6.02	97.3	94.2	8.0	23.1	4.0	3.8	4.0
760	WRA1	S	MID-FLOOD	28-Jun-06	10:07	32.50	27.2	6.45	6.13	95.8	94.9	8.1	19.2	4.2	4.3	8.8	
761	WRA1	M	MID-FLOOD	28-Jun-06			26.9	6.02	5.80	6.10	98.8	95.1	8.1	26.4	5.1	5.1	8.5
762	WRA1	B	MID-FLOOD	28-Jun-06			26.9	5.68	5.47	5.58	96.5	92.8	8.1	28.4	4.3	4.2	4.5
763	WRA2	S	MID-FLOOD	28-Jun-06	9:58	28.30	27.1	6.04	5.88	94.6	93.0	8.1	21.7	3.9	3.7	12.0	
764	WRA2	M	MID-FLOOD	28-Jun-06			27.1	5.95	5.76	5.91	96.3	92.9	8.1	23.9	3.9	3.9	9.5
765	WRA2	B	MID-FLOOD	28-Jun-06			27.0	5.72	5.53	5.63	97.6	93.8	8.1	24.6	5.2	5.1	4.3
766	WRA3	S	MID-FLOOD	28-Jun-06	9:45	27.90	27.2	6.33	6.17	99.5	96.8	8.1	19.4	4.9	4.8	9.0	
767	WRA3	M	MID-FLOOD	28-Jun-06			27.0	6.00	5.75	6.06	94.9	91.4	8.1	21.9	4.8	4.7	4.0
768	WRA3	B	MID-FLOOD	28-Jun-06			27.0	5.88	5.62	5.75	94.8	90.9	8.1	23.7	4.8	4.8	4.8
769	WWFCZ1	S	MID-FLOOD	28-Jun-06	10:40	35.20	27.3	5.60	5.53	96.8	93.3	8.1	19.3	4.1	4.3	5.0	
770	WWFCZ1	M	MID-FLOOD	28-Jun-06			26.8	5.57	5.42	5.53	90.0	86.7	8.1	25.8	5.1	5.2	7.5
771	WWFCZ1	B	MID-FLOOD	28-Jun-06			27.0	5.88	5.67	5.78	95.1	91.3	8.1	24.0	4.2	4.2	4.5
772	WWFCZ2	S	MID-FLOOD	28-Jun-06	10:19	37.90	27.2	6.20	6.02	97.1	95.1	8.1	19.4	4.4	4.3	9.0	
773	WWFCZ2	M	MID-FLOOD	28-Jun-06			27.2	5.80	5.56	5.90	93.0	89.4	8.1	23.8	3.9	3.8	6.5
774	WWFCZ2	B	MID-FLOOD	28-Jun-06			27.0	5.82	5.62	5.72	86.0	82.2	8.1	26.6	4.1	4.1	4.1
775	WFCZR1	S	MID-FLOOD	28-Jun-06	10:55	40.70	27.3	6.17	6.01	90.8	90.3	8.1	19.5	4.2	4.4	4.0	
776	WFCZR1	M	MID-FLOOD	28-Jun-06			27.1	5.72	5.52	5.86	92.7	88.0	8.1	23.3	3.9	3.7	4.3
777	WFCZR1	B	MID-FLOOD	28-Jun-06			27.1	6.07	5.84	5.96	89.7	94.2	8.1	22.7	4.1	4.1	4.1
778	WFCZR2	S	MID-FLOOD	28-Jun-06	10:27	40.60	27.1	6.48	6.32	99.1	96.3	8.1	20.2	3.8	3.9	4.0	
779	WFCZR2	M	MID-FLOOD	28-Jun-06			27.1	5.83	5.63	6.07	94.3	89.9	8.1	23.3	4.6	4.5	7.0
780	WFCZR2	B	MID-FLOOD	28-Jun-06			26.9	5.66	5.43	5.55	97.7	91.0	8.1	27.4	4.1	4.3	4.2



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

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L	Average value	DO, % saturation	pH, Unit	Salinity, ppt	Turbidity, NTU	Averaged Value	Suspended Solid, mg/L	Averaged Value	
781	WWA1	S	MID-EBB	30-Jun-06	15:20	7.30	27.9	5.84	5.70	95.6	92.1	7.4	21.5	3.9	4.2	4.5	
782	WWA1	M	MID-EBB	30-Jun-06			27.9	5.90	5.83	5.82	96.0	93.0	7.4	21.5	4.1	4.2	5.0
783	WWA1	B	MID-EBB	30-Jun-06			27.7	5.87	5.78	5.83	98.2	93.0	7.4	22.1	5.2	5.4	6.5
784	WWA2	S	MID-EBB	30-Jun-06	15:11	9.50	28.0	5.72	5.65	94.7	89.6	7.4	21.5	4.2	3.9	4.5	
785	WWA2	M	MID-EBB	30-Jun-06			27.8	5.93	5.81	5.78	95.4	94.6	7.4	21.7	2.8	3.0	5.8
786	WWA2	B	MID-EBB	30-Jun-06			27.7	5.87	5.78	5.83	98.6	93.5	7.4	22.2	3.7	3.5	6.0
787	WWA3	S	MID-EBB	30-Jun-06	15:00	7.20	28.4	6.18	6.02	92.5	86.3	7.4	14.6	4.1	4.3	8.5	
788	WWA3	M	MID-EBB	30-Jun-06			27.8	5.73	5.68	5.90	98.9	94.3	7.4	22.0	4.1	4.2	7.5
789	WWA3	B	MID-EBB	30-Jun-06			27.9	5.87	5.81	5.84	97.6	94.4	7.4	21.4	4.8	4.5	10.0
790	WRA1	S	MID-EBB	30-Jun-06	15:31	28.30	27.9	5.86	5.76	96.4	92.5	8.1	21.3	3.2	3.4	4.5	
791	WRA1	M	MID-EBB	30-Jun-06			27.5	5.78	5.65	5.76	95.0	93.4	8.1	22.6	3.6	3.3	6.0
792	WRA1	B	MID-EBB	30-Jun-06			26.5	5.56	5.52	5.54	95.0	89.2	8.1	27.8	4.5	4.5	12.0
793	WRA2	S	MID-EBB	30-Jun-06	15:42	27.00	27.9	6.10	5.96	101.8	97.8	8.1	21.7	4.4	4.7	4.3	
794	WRA2	M	MID-EBB	30-Jun-06			27.6	5.73	5.63	5.66	98.7	93.7	8.1	22.6	4.0	3.7	4.0
795	WRA2	B	MID-EBB	30-Jun-06			27.2	5.50	5.45	5.48	91.7	87.3	8.1	24.7	3.8	3.6	7.0
796	WRA3	S	MID-EBB	30-Jun-06	15:54	26.40	27.7	5.74	5.63	96.7	91.4	8.1	20.4	4.1	4.3	6.0	
797	WRA3	M	MID-EBB	30-Jun-06			27.5	5.59	5.49	5.61	100.9	95.8	8.1	22.2	4.4	4.6	5.0
798	WRA3	B	MID-EBB	30-Jun-06			27.5	5.69	5.59	5.64	94.8	90.2	8.1	24.9	5.2	5.1	8.5
799	WWFCZ1	S	MID-EBB	30-Jun-06	16:34	32.80	27.7	5.89	5.81	101.9	95.1	8.1	21.6	3.9	3.8	5.5	
800	WWFCZ1	M	MID-EBB	30-Jun-06			27.2	5.87	5.81	5.85	94.5	89.1	8.1	24.4	2.7	2.8	7.0
801	WWFCZ1	B	MID-EBB	30-Jun-06			27.1	5.60	5.48	5.54	95.3	87.8	8.2	25.2	4.0	4.0	7.0
802	WWFCZ2	S	MID-EBB	30-Jun-06	16:22	30.90	27.8	5.90	5.86	99.3	90.3	8.1	21.6	3.9	3.7	4.0	
803	WWFCZ2	M	MID-EBB	30-Jun-06			26.8	5.92	5.88	5.89	91.6	84.7	8.1	26.7	3.8	3.6	15.0
804	WWFCZ2	B	MID-EBB	30-Jun-06			26.2	5.77	5.66	5.72	94.9	88.5	8.2	28.9	4.2	4.1	15.0
805	WFCZR1	S	MID-EBB	30-Jun-06	16:47	40.00	27.6	5.93	5.88	98.9	93.9	8.1	22.5	2.3	2.4	10.5	
806	WFCZR1	M	MID-EBB	30-Jun-06			27.2	5.63	5.57	5.75	93.1	88.1	8.1	24.4	4.0	3.8	5.0
807	WFCZR1	B	MID-EBB	30-Jun-06			27.2	5.46	5.41	5.44	97.5	93.6	8.1	24.5	4.2	4.7	2.8
808	WFCZR2	S	MID-EBB	30-Jun-06	16:10	39.30	27.8	5.97	5.88	92.4	89.9	8.1	21.0	4.9	4.8	5.0	
809	WFCZR2	M	MID-EBB	30-Jun-06			27.4	5.62	5.50	5.74	93.5	89.9	8.1	23.8	4.0	3.9	5.5
810	WFCZR2	B	MID-EBB	30-Jun-06			26.7	5.51	5.42	5.47	89.8	84.4	8.1	26.9	4.0	3.8	6.5

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

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L	Average value	DO, % saturation	pH, Unit	Salinity, ppt	Turbidity, NTU	Averaged Value	Suspended Solid, mg/L	Averaged Value	
811	WWA1	S	MID-FLOOD	30-Jun-06	10:30	8.30	27.1	6.13	5.98	99.6	92.7	8.1	25.4	3.0	2.7	9.0	
812	WWA1	M	MID-FLOOD	30-Jun-06			27.1	5.80	5.68	5.90	99.8	94.4	8.1	25.4	2.5	2.4	4.5
813	WWA1	B	MID-FLOOD	30-Jun-06			27.0	5.46	5.41	5.44	93.4	88.7	8.1	25.4	3.9	3.6	8.0
814	WWA2	S	MID-FLOOD	30-Jun-06	10:40	9.80	27.0	6.11	5.98	94.8	89.2	8.2	25.2	3.5	3.7	6.0	
815	WWA2	M	MID-FLOOD	30-Jun-06			27.0	5.67	5.57	5.83	92.8	89.5	8.1	25.4	3.2	3.2	6.0
816	WWA2	B	MID-FLOOD	30-Jun-06			27.0	5.86	5.73	5.80	91.8	85.8	8.1	25.4	4.1	4.1	8.0
817	WWA3	S	MID-FLOOD	30-Jun-06	10:50	7.90	27.0	5.99	5.90	97.7	96.0	8.1	25.5	3.8	3.6	6.5	
818	WWA3	M	MID-FLOOD	30-Jun-06			27.0	5.82	5.75	5.87	96.4	89.8	8.1	25.5	3.9	3.9	8.5
819	WWA3	B	MID-FLOOD	30-Jun-06			26.9	5.56	5.41	5.49	91.7	87.1	8.1	25.5	4.2	4.1	8.5
820	WRA1	S	MID-FLOOD	30-Jun-06	10:15	30.50	27.2	5.99	5.96	97.4	90.0	8.1	25.1	2.8	2.8	4.0	
821	WRA1	M	MID-FLOOD	30-Jun-06			26.8	5.80	5.71	5.87	97.7	85.0	8.1	26.7	3.2	3.5	5.0
822	WRA1	B	MID-FLOOD	30-Jun-06			26.7	5.60	5.58	5.59	94.7	89.6	8.1	26.7	4.7	4.7	6.5
823	WRA2	S	MID-FLOOD	30-Jun-06	10:02	28.60	27.0	5.79	5.68	93.8	86.9	8.1	24.9	4.0	3.8	7.0	
824	WRA2	M	MID-FLOOD	30-Jun-06			27.0	5.58	5.54	5.65	95.6	91.8	8.1	25.7	4.0	3.8	6.5
825	WRA2	B	MID-FLOOD	30-Jun-06			27.1	5.35	5.50	5.43	95.3	89.7	8.1	27.2	5.2	5.1	10.0
826	WRA3	S	MID-FLOOD	30-Jun-06	9:50	27.50	27.0	6.02	5.89	94.8	93.3	8.1	25.1	4.9	4.5	8.5	
827	WRA3	M	MID-FLOOD	30-Jun-06			27.0	5.94	5.80	5.91	91.1	87.4	8.1	25.4	4.3	4.4	15.5
828	WRA3	B	MID-FLOOD	30-Jun-06			26.3	5.72	5.69	5.71	92.3	87.0	8.1	28.6	4.2	4.3	11.0
829	WWFCZ1	S	MID-FLOOD	30-Jun-06	9:14	30.10	27.3	5.86	5.52	99.4	93.7	8.1	23.9	2.9	2.8	7.0	
830	WWFCZ1	M	MID-FLOOD	30-Jun-06			26.9	5.77	5.57	5.68	98.7	95.0	8.1	25.4	3.6	3.6	6.5
831	WWFCZ1	B	MID-FLOOD	30-Jun-06			26.5	5.51	5.41	5.46	95.2	89.8	8.1	27.5	4.2	4.3	5.0
832	WWFCZ2	S	MID-FLOOD	30-Jun-06	9:26	42.10	27.2	5.99	5.90	96.1	88.7	8.1	25.6	4.2	4.1	7.5	
833	WWFCZ2	M	MID-FLOOD	30-Jun-06			27.0	5.67	5.62	5.80	95.1	89.9	8.1	25.6	3.7	3.8	5.0
834	WWFCZ2	B	MID-FLOOD	30-Jun-06			26.3	5.70	5.56	5.63	95.1	89.0	8.1	28.2	4.5	4.5	10.0
835	WFCZR1	S	MID-FLOOD	30-Jun-06	9:00	42.80	27.3	5.82	5.70	97.4	91.1	8.1	24.2	3.9	3.7	7.5	
836	WFCZR1	M	MID-FLOOD	30-Jun-06			26.5	5.69	5.65	5.72	94.0	88.4	8.1	27.7	3.0	2.7	15.0
837	WFCZR1	B	MID-FLOOD	30-Jun-06			26.4	5.60	5.53	5.67	94.2	86.1	8.1	28.1	3.3	3.2	4.5
838	WFCZR2	S	MID-FLOOD	30-Jun-06	9:38	40.70	27.2	5.49	5.40	97.9	86.0	8.1	14.5	4.1	4.2	9.0	
839	WFCZR2	M	MID-FLOOD	30-Jun-06			26.3	5.62	5.49	5.50	95.0	90.9	8.1	28.2	3.3	3.1	8.5
840	WFCZR2	B	MID-FLOOD	30-Jun-06			25.9	5.74	5.77	5.76	99.8	91.0	8.1	30.7	4.3	4.2	4.5

Appendix E

---

**Records on C&D  
Materials Disposal  
Form (delivered by  
barge)**

入帳票編號: 01067902

選擇「一個訂明設施: One Prescribed Facility:

堆填區 Landfills

公眾填料接收設施 Public Fill Reception Facilities

離島廢物轉運設施 Outlying Islands Transfer Facilities

車牌號碼 Vehicle Registration Mark: 21696V

日期: 20/06/2006

簽發人: [Signature]

賬戶名稱: CHUN WO CONSTRUCTION & ENGINEERING CO. LTD.

賬戶編號: 5005654

乙部份: 由廢物運輸商保留

# Construction and Demolition Materials Disposal Delivery Form

## 拆建物料運載記錄票



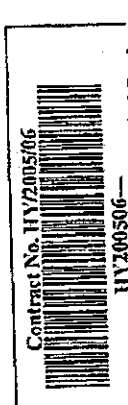
(Information contained in this form may be displayed on Internet 此表格所載資料可被上載於互聯網)

Date: 20/06/2006 Time of departure from site: 離開地盤時間: 11:38

Vehicle Licence Plate Number: 21696V 車牌號碼: 21696V

Designated Public Filling Facility/Landfill: 指定公眾填土設施/堆填區: TM38

<input type="checkbox"/> Central & Western 中西區	<input type="checkbox"/> Wanchai 灣仔	<input type="checkbox"/> Eastern 東區	<input type="checkbox"/> Southern 南區	<input type="checkbox"/> Sai Kung 西貢
<input type="checkbox"/> Yau, Tsim, Mong 油尖旺	<input type="checkbox"/> Shamshuipo 深水埗	<input type="checkbox"/> Kowloon City 九龍城	<input type="checkbox"/> Wong Tai Sin 黃大仙	<input type="checkbox"/> Outlying Islands 離島
<input type="checkbox"/> Kwun Tong 觀塘	<input type="checkbox"/> Kwai Tsing 葵青	<input checked="" type="checkbox"/> Tsuen Wan 荃灣	<input type="checkbox"/> Tuen Mun 屯門	<input type="checkbox"/> Shatin 沙田
<input type="checkbox"/> Yuen Long 元朗	<input type="checkbox"/> North 北區	<input type="checkbox"/> Tai Po 大埔		



Contract No. HY/2005/06

Please stick contract no. barcode above 請在上方貼上合約編號條碼

Approximate Load 大約承載量: 1/4  1/2  3/4  Full滿

Fill Bank at 堆填區: Tsuen Wan Area 荃灣

12:45 PM 02 JUN 2006

MHJV  
HY/2005/06  
AUTHORIZED CHOP FOR  
ENGINEERS REPRESENTATIVE

Chop of Engineer's/Architect's Representative 工程師/建築師代表蓋印

Chop of Designated Public Filling Facility/Landfill 公眾填土設施/堆填區蓋印

Serial No. 0000922594



# Construction and Demolition Materials Disposal Delivery Form



## 拆建物料運載記錄票

入帳票編號: 01067901  
Chit No.:

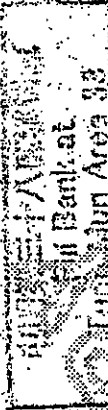
- 選擇「」一個訂明設施:
- Tick  One Prescribed Facility:
  - 堆填區 Landfills
  - 篩選分類設施 Sorting Facilities
  - 公眾填料接收設施 Public Fill Reception Facilities
  - 離島廢物轉運設施 Outlying Islands Transfer Facilities
- 車牌號碼 Vehicle Registration Mark: 21696V

使用日期: 4/06/06  
Date of Use:

簽發人: [Signature]  
Issued by:

帳戶名稱: Chun Wo Construction & Engineering Co. Ltd.  
Name of the Account-holder:

CHUN WO CONSTRUCTION & ENGINEERING CO. LTD.



21696V

帳戶編號: 5005654  
Account No.:

乙部份: 由廢物運輸處保留

(Information contained in this form may be displayed on Internet 此表格所載資料可被上載於互聯網)

Date: 06-06-06  
日期: 06-06-06

Time of departure from site: 7:30  
離開地盤時間: 7:30

Vehicle Licence Plate Number: 21696V  
車牌號碼: 21696V

Designated Public Filling Facility/Landfill:  
指定公眾填土設施/堆填區

- Central & Western 中西區
- Yau, Tsim, Mong 油尖旺
- Kwun Tong 觀塘
- Yuen Long 元朗
- Wanchai 灣仔
- Shamshuipo 深水埗
- Kwai Tsing 葵青
- North 北區
- Eastern 東區
- Kowloon City 九龍城
- Tsuen Wan 荃灣
- Tai Po 大埔
- Southern 南區
- Wong Tai Sin 黃大仙
- Tuen Mun 屯門
- Sai Kung 西貢
- Outlying Islands 離島
- Shatin 沙田

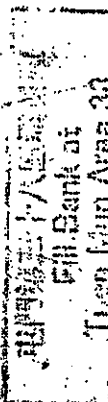
Location of Site:  
地盤位置:



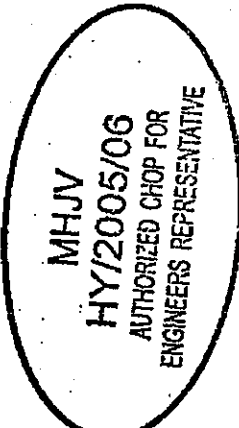
Contract No. HY200506  
HY200506

Please stick contract no. barcode above  
請在上方貼上合約編號條碼

Approximate Load:  1/4  1/2  3/4  Full  
大約承載量



21696V



Chop of Engineer's/Architect's Representative  
工程師/建築師代表蓋印

Chop of Designated Public Filling Facility/Landfill  
公眾填土設施/堆填區蓋印

Appendix F  
**New Environmental  
Licence**

---

**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-RW0326-06To: CHINA GEO - ENGINEERING CORPORATION

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 - TSING LUNG TAU, TSUEN WAN, NTLot 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>
-----	Air compressor, with Noise Emission Label showing a sound power level $\leq 101$ dB(A)	One
-----	Air compressor, with Noise Emission Label showing a sound power level $\leq 100$ dB(A)	One
-----	Piling, large diameter bored, reverse circulation drill, with sound pressure level of $\leq 75$ dB(A) measured at 7 m from the centre of the reverse circulation drill	Two
-----	Generator, with sound pressure level of $\leq 75$ dB(A) measured at 7 m from the centre of the generator	Two

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

Date and time of commencement : 09 June 2006 at 1900 hoursDays 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 : 08 December 2006 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:

All flaps and panels of the air compressors and the generators shall be closed when operated.

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 a proper location within the boundary of the working area 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 9th day of June 2006



Signed: [Signature]  
(LEUNG Cho-shing)  
for Authority

▪ Delete as necessary

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-RW0349-06

To: CHUN WO CONSTRUCTION & ENGINEERING CO. LTD.

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 - TSING LUNG TAU, TSUEN WAN, NT  
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 : 23 June 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 : 22 December 2006 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 23rd day of June 2006

Signed: \_\_\_\_\_

(LEUNG Cho-shing)

for Authority

\* Delete as necessary

Sheets Attached to  
Construction Noise Permit No. GW-RW0349-06

**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
<b>Group A</b>		
-----	Generator, with sound pressure level of $\leq 75$ dB(A) measured at 7 m from the centre of the generator	One
CNP 283	Water pump, submersible (electric)	Three
<b>Group B</b>		
-----	Lorry, with crane, gross vehicle weight $\leq 38$ tonnes	One
-----	Generator, with sound pressure level of $\leq 75$ dB(A) measured at 7 m from the centre of the generator	One
CNP 283	Water pump, submersible (electric)	Three
<b>Group C</b>		
CNP 081	Excavator, tracked	One
-----	Generator, with sound pressure level of $\leq 75$ dB(A) measured at 7 m from the centre of the generator	One
CNP 283	Water pump, submersible (electric)	Three
<b>Group D</b>		
CNP 065	Drill, hand-held (electric)	Three
CNP 065	Grinder, hand-held (electric)	Three
-----	Generator, with sound pressure level of $\leq 75$ dB(A) measured at 7 m from the centre of the generator	One
CNP 283	Water pump, submersible (electric)	Three

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

1. All flaps and panels of the generators shall be closed when operated.
2. Only one group of the powered mechanical equipment listed in condition no.3a shall be operated at any time.



Signed:   
(LEUNG Cho-shing)  
for Authority