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)

August 2007

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) August 2007

September 2007

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Job number 24583

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

Attn : Mr. Michael S Harfoot

13 September 2007

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) – August 2007

We refer to the Monthly EM&A Report for Reclamation Works (EP No. EP-219/2005) – August 2007 received via email on 12 September 2007 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 September 2007, the Monthly EM&A Report for Reclamation Works (EP No. EP-219/2005) – August 2007 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
ENSR Asia (HK) Ltd.

Y T Tang
Independent Environmental Checker

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

ARUP

Document Verification

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Issue Document Verification with Document ✓

Contents

Tables

Figures

Appendices

Executive Summary

This is the eighteenth monthly environmental monitoring and audit (EM&A) report presenting the progress of environmental monitoring and audit works for the reporting period between 01 and 31 August 2007. Noise monitoring at Grand Bay Villa was temporarily suspended as the premises were vacant. Marine water monitoring and weekly environmental site audit were carried out during the reporting period.

Marine Water Quality Monitoring

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

Summary of Mid-Ebb Tide

The lowest DO level for surface & middle position of 5.45 mg/L was recorded at WWFCZ2 on 17 August 2007 and the lowest DO level for bottom position of 5.38 mg/L was recorded at WWFCZ1 on 15 August 2007. There was no exceedance of DO level during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest depth-averaged Tby level of 8.0 Nephelometric Turbidity Unit (NTU) was recorded at WWA3 on 30 August 2007. There were 1 exceedance of Tby Action Level and 1 exceedance of Tby Limit Level on 30 August 2007 when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest SS level of 25.0 mg/L was recorded at WWA1 on 01 August 2007. There were 11 exceedances of SS Baseline Check Level on 01, 03, 28 and 30 August 2007 when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The exceedances of Tby and SS levels were likely attributed to construction works of the Project except for the SS level on 03 August 2007.

Summary of Mid-Flood Tide

The lowest DO level for surface & middle position of 5.41 mg/L was recorded at WWFCZ2 on 28 August 2007 and the lowest level for bottom position of 5.40 mg/L was recorded at WWA2 on 30 August 2007. There was no exceedance of DO level during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest depth-averaged Tby level of 6.4 NTU was recorded at WWA2 and WWA3 on 30 August 2007 respectively. There was no exceedance of Tby Level during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest SS level of 17.7 mg/L was recorded at WWFCZ1 on 03 August 2007. There were 2 exceedances of SS Baseline Check Criteria on 03 and 30 August 2007 when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The exceedances of SS Levels on 03 August 2007 was likely attributed to natural variation of marine water and that on 30 August 2007 was likely attributed to construction works of the Project.

Environmental Auditing

A total of 5 environmental site audits were conducted in August 2007 CT was recommended to improve in the following areas:

Air Quality: Frequent watering over unpaved area, covering stockpile and switching off all equipment while not in use;

Waste Management: Provision of driptrays to oil drums, clearing of the oil stain, provision of labels to chemical waste containers and clearing of C&D waste and general refuse frequently; and

Water Quality: Reinstating the silt curtain to its original size and removal the remaining stockpile at Seawall B as soon as possible.

Waste Disposal

A total of 51.77 tonnes of Construction & Demolition (C&D) waste and 911.12 tonnes of C&D materials were disposed of at landfills and Public Filling Reception Facility at Tuen Mun Area 38 respectively during reporting period. No chemical waste was disposed of during the reporting period.

Complaint Records

There was no environmental complaint received in August 2007.

Exceedance

Exceedances of Tby and SS levels for marine water quality were recorded during reporting period when compared with A/L Levels and baseline check criteria.

Investigation has been conducted for the exceedances. The exceedances of SS level recorded on 03 August 2007 were likely attributed to natural variation of marine water and the exceedances of Tby and SS levels recorded on 01, 28 and 30 August 2007 were likely attributed to construction works of the Project. The exceedances of Tby and SS might be due to the reduced enclosed area of the silt curtain that was incapable to prevent dispersion of muddy water from the stockpile. The contractor is recommended to reinstate the silt curtain to its original position and remove the stockpile promptly. CT advised that the stockpile would be removed in early September and would closely monitor the function of silt curtain.

Notification of Summons and Successful Prosecution

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

Environmental Licences

No new environmental licence was granted during the reporting period.

1 Introduction

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

1.1 Project Background

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

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

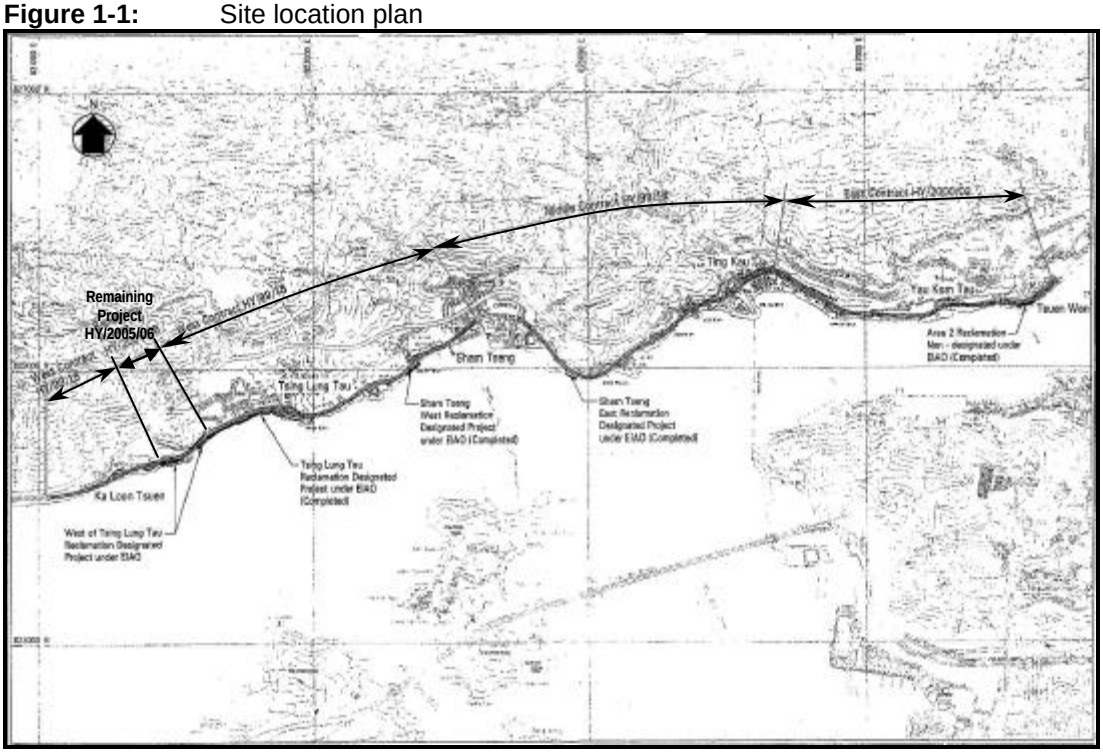
Following subsequent developments, the Route 10 project was placed under review, and Government therefore decided to implement the excised section of CPR (the Remaining Project) under the original CPR Improvement project. **Figure 1-1** shows the site location plan.

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

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

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

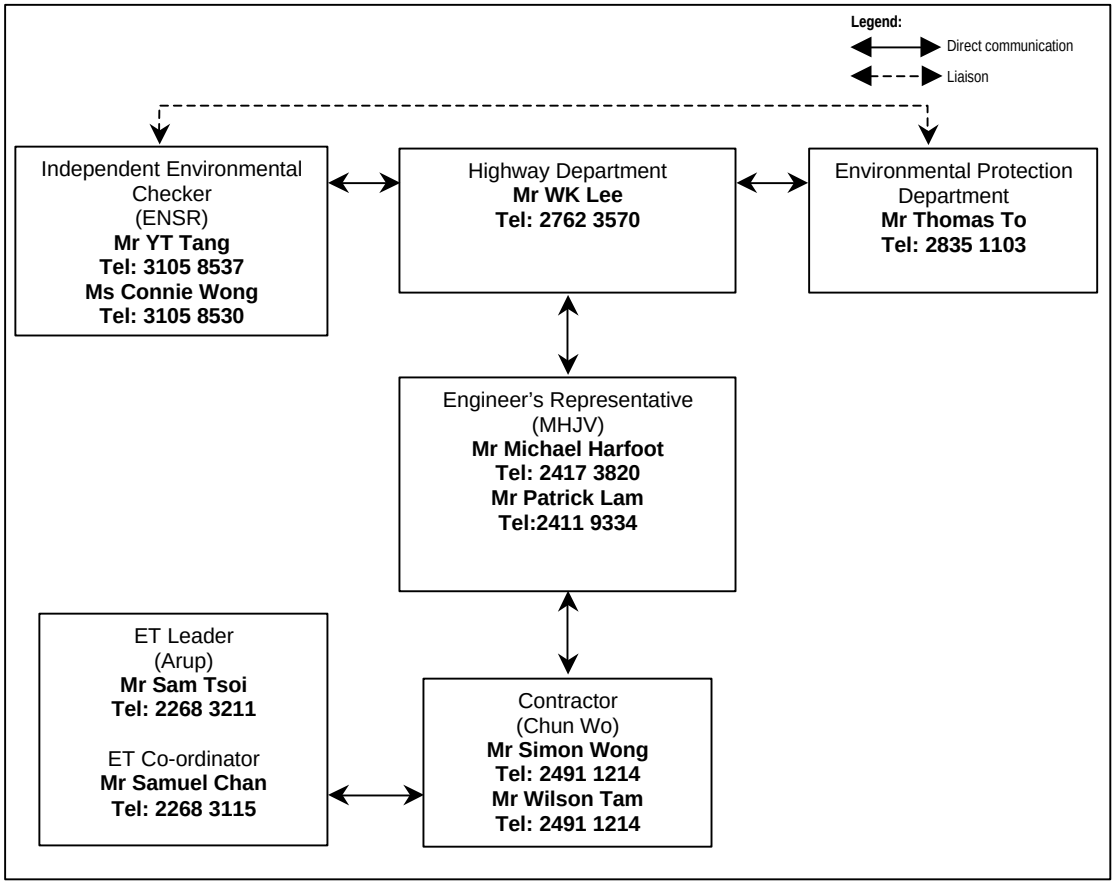
Figure 1-1: Site location plan



1.2 Project Organisation

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

Figure 1-2: Project organisation chart



The Project Proponent is Highway Department; the Engineer's Representative (ER) is Meinhardt Halcrow Joint Venture (MHJV); the Contractor (CT) is Chun Wo Construction & Engineering Co. Ltd; the Independent Environmental Checker (IEC) is ENSR Asia (HK) Ltd (ENSR) 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 eighteenth 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 01 August 2007 to 31 August 2007.

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 August 2007 included:

- Hydroseeding for Seawall A; and
- Construction of U-Channel at Seawall A.

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 August 2007 and the tentative schedule for September 2007 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	$L_{eq(30\ min)}$	Once per week	1
Between 1900-2300 hours on normal weekdays	$L_{eq(5\ min)}$*		3 (consecutive)
Between 2300-0700 hours of next day			
Between 0700-1900 hours on holidays			

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

3.1.3 Monitoring Location

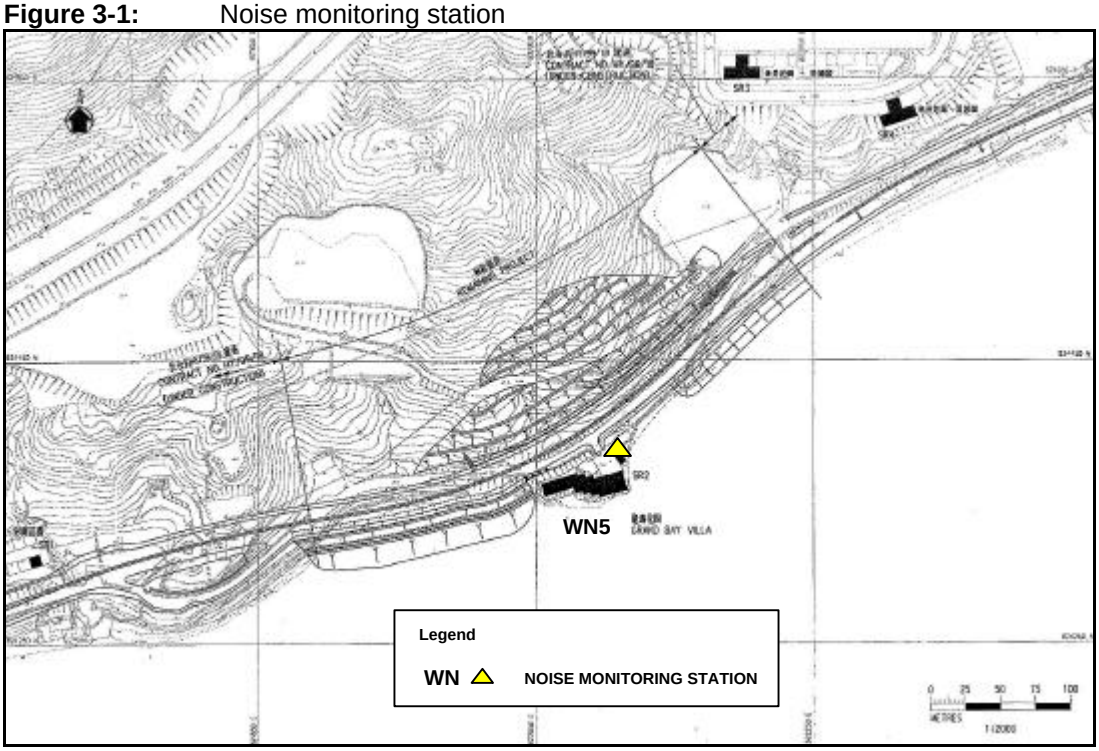
Noise monitoring will be conducted at one designated location as shown in **Figure 3-1**. The details of the noise monitoring location are given in **Table 3-2**. The measurements will be taken at a position 1m from the exterior of building façade and at a position of 1.2m above ground.

Table 3-2: Construction noise monitoring locations

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

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

Figure 3-1: Noise monitoring station



3.2 Marine Water Quality

3.2.1 Monitoring Parameters

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

3.2.2 Monitoring Frequency

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

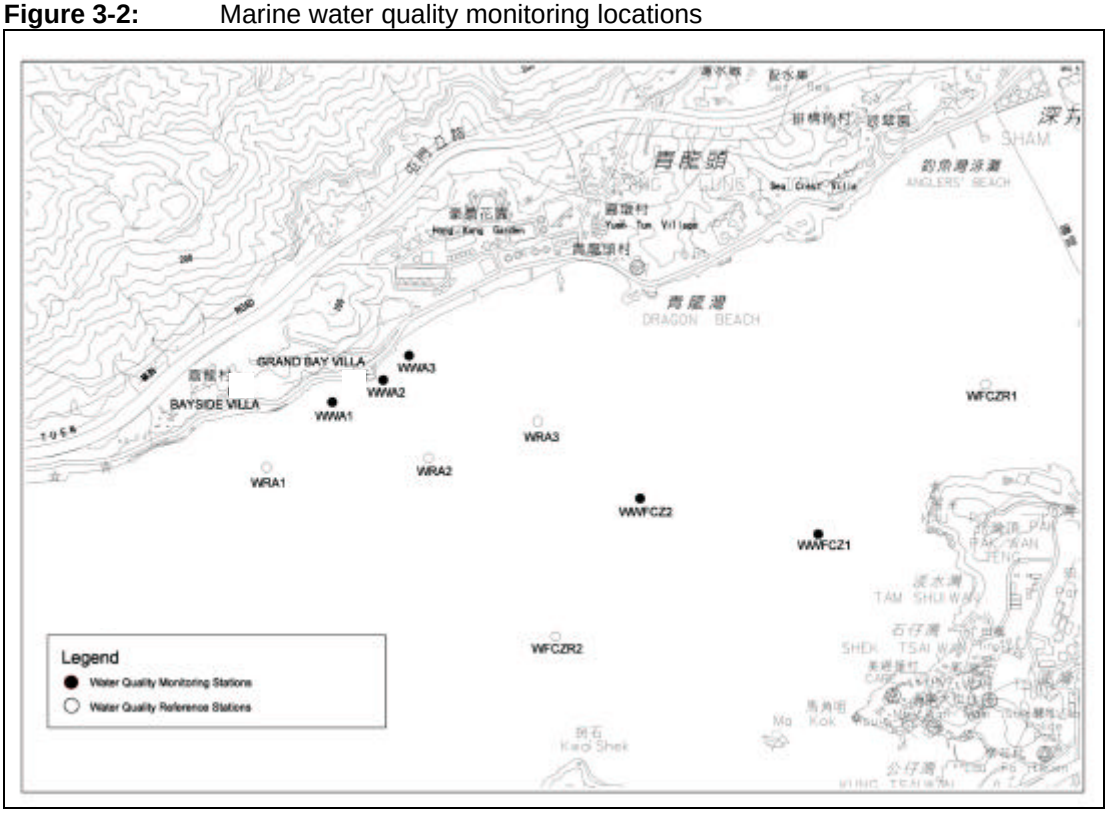
3.2.3 Monitoring Locations

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

Table 3-3: Marine water quality monitoring locations

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

Figure 3-2: Marine water quality monitoring locations



3.3 Performance Limits and Event and Action Plan

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

3.3.1 Construction Noise

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

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

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

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

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

Event	Action			
	ET Leader	IEC	ER	CT
Action Level	1. Notify IEC and the CT. 2. Carry out investigation. 3. Report the results of investigation to the IEC and the CT. 4. Discuss with the CT and formulate remedial measures. 5. Increase monitoring frequency to check mitigation effectiveness.	1. Review with the analysed results submitted by ET. 2. Review the proposed remedial measures by the CT and advise ER accordingly. 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of exceedance in writing. 2. Notify the CT. 3. Require the CT to propose remedial measures for the analysed noise problem. 4. Ensure remedial measures are properly implemented.	1. Submit noise mitigation proposals to IEC. 2. Implement noise mitigation proposals.
Limit Level	1. Notify the IEC, the ER, the DEP and the CT. 2. Identify the source. 3. Repeat measurement to confirm findings. 4. Increase monitoring frequency. 5. Carry out analysis of CT's working procedures to determine possible mitigation to be implemented. 6. Inform the IEC, the ER, and the DEP the causes & actions taken for the exceedances. 7. Assess effectiveness of the CT's remedial actions and keep the IEC, the DEP and the ER informed of the results. 8. If exceedance stops, cease additional monitoring	1. Discuss amongst the ER, the ET Leader and the CT on the potential remedial actions. 2. Review the CT's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of exceedance in writing. 2. Notify the CT. 3. Require the CT to propose remedial measures for the analysed noise problem. 4. Ensure remedial measures are properly implemented. 5. If exceedance continues, consider what activity of the work is responsible and instruct the CT to stop that activity of work until the exceedance is abated.	1. Take immediate action to avoid further exceedance. 2. Submit proposals for remedial actions to IEC within 3 working days of notification. 3. Implement the agreed proposals. 4. Resubmit proposals if problem still not under control. 5. Stop the relevant activity of works as determined by the ER until the exceedance is abated.

3.3.2 Marine Water Quality

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

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

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

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

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

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

Notes:

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

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

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

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

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

Event	Action			
	ET Leader	IEC	ER	CT
Action Level				
Action level being exceeded by one sampling day	1. Repeat in-situ measurement to confirm findings. 2. Identify source(s) of impact. 3. Inform the IEC and the CT. 4. Check monitoring data, all plant, equipment and the CT's working methods. 5. Discuss mitigation measures with the IEC and the CT. 6. Repeat measurement on next day of exceedance.	1. Discuss with the ET Leader and the CT on the mitigation measures. 2. Review proposals on mitigation measures submitted by the CT and advised the ER accordingly. 3. Assess the effectiveness of the implemented mitigation measures.	1. Discuss with the IEC on the proposed mitigation measures. 2. Make agreement on the mitigation measures to be implemented.	1. Inform the ER and confirm notification of the non-compliance in writing. 2. Rectify unacceptable practice. 3. Check all plants and equipment. 4. Consider changes of working methods. 5. Discuss with the ET Leader and the IEC and propose mitigation measures to the IEC and the ER. 6. Implement the agreed mitigation measures.
Action level being exceeded by more than one consecutive days	1. Repeat in-situ measurement to confirm findings. 2. Identify source(s) of impact. 3. Inform the IEC and the CT. 4. Check monitoring data, all plant, equipment and the CT's working methods. 5. Discuss mitigation measures with the IEC and the CT. 6. Ensure mitigation measures are implemented. 7. Prepare to increase the monitoring frequency to daily. 8. Repeat measurement on next day of exceedance.	1. Discuss with the ET Leader and the CT on the mitigation measures. 2. Review proposals on mitigation measures submitted by the CT and advised the ER accordingly. 3. Assess the effectiveness of the implemented mitigation measures.	1. Discuss with IEC on the proposed mitigation measures. 2. Make agreement on the mitigation measures to be implemented. 3. Assess the effectiveness of the implemented mitigation measures.	1. Inform the ER and confirm notification of the non-compliance in writing. 2. Rectify unacceptable practice. 3. Check all plants and equipment. 4. Consider changes of working methods. 5. Discuss with the ET Leader and the IEC and propose mitigation measures to the IEC and the ER within 3 working days. 6. Implement the agreed mitigation measures.
Limit Level				
Limit level being exceeded by one sampling day	1. Repeat in-situ measurement to confirm findings. 2. Identify source(s) of impact. 3. Inform the IEC, the CT and the DEP. 4. Check monitoring data, all plant, equipment and the CT's working methods. 5. Discuss mitigation measures with the IEC, the ER and the CT. 6. Ensure mitigation measures are implemented. 7. Increase the monitoring frequency to daily until no exceedance of the Limit Level.	1. Discuss with the ET Leader and the CT on the mitigation measures. 2. Review proposals on mitigation measures submitted by the CT and advised the ER accordingly. 3. Assess the effectiveness of the implemented mitigation measures.	1. Discuss with IEC, the ET Leader and the CT on the proposed mitigation measures. 2. Request the CT to critically review the working methods. 3. Make agreement on the mitigation measures to be implemented. 4. Assess the effectiveness of the implemented mitigation measures.	1. Inform the ER and confirm notification of the non-compliance in writing. 2. Rectify unacceptable practice. 3. Check all plants and equipment. 4. Consider changes of working methods. 5. Discuss with the ET Leader, the IEC and the ER, and propose mitigation measures to the IEC and the ER within 3 working days. 6. Implement the agreed mitigation measures.
Limit level being exceeded by more than one consecutive days	1. Repeat in-situ measurement to confirm findings. 2. Identify source(s) of impact. 3. Inform the IEC, the CT and the DEP. 4. Check monitoring data, all plant, equipment and the CT's working methods. 5. Discuss mitigation measures with the IEC, the ER and the CT. 6. Ensure mitigation measures are implemented. 7. Increase the monitoring frequency to daily until no exceedance of the Limit Level for two consecutive days.	1. Discuss with the ET Leader and the CT on the mitigation measures. 2. Review proposals on mitigation measures submitted by the CT and advised the ER accordingly. 3. Assess the effectiveness of the implemented mitigation measures.	1. Discuss with IEC, the ET Leader and the CT on the proposed mitigation measures. 2. Request the CT to critically review the working methods. 3. Make agreement on the mitigation measures to be implemented. 4. Assess the effectiveness of the implemented mitigation measures. 5. 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.	1. Inform the ER and confirm notification of the non-compliance in writing. 2. Rectify unacceptable practice. 3. Check all plants and equipment. 4. Consider changes of working methods. 5. Discuss with the ET Leader, the IEC and the ER, and propose mitigation measures to the IEC and the ER within 3 working days. 6. Implement the agreed mitigation measures. 7. As directed by the ER, slow down or stop all or part of the construction activities.

3.4 Site Inspection and Environmental Complaint Handling

3.4.1 Site Inspection Frequency and Areas Covered

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

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

3.4.2 Site Inspection Procedures

a) The CT and/or ER will advise the Environmental Auditor (EA) of the ET for all information on any environmental related aspects.

b) The EA will discuss with the CT and/or ER to sort out and forecast any potential environmental impact.

c) The EA will conduct a site walk with the CT and/or ER, particularly the areas with extensive construction works.

d) The EA will conduct inspection for the main environmental facilities and measures such as wheel washing facilities located at site exits, water spraying truck, temporary noise barrier, and internal noise-reducing measures of the heavy equipment etc, to ensure that these environmental facilities operate normally and effectively.

e) The EA will fill up a site inspection checklist during the site inspection for recording any special observations.

f) The EA will conduct post-discussion with the CT and/or ER for the establishment of additional/special measures if any non-conformance is found. The completion date for such additional measures will be confirmed during the post-discussion.

g) The EA will propose a reasonable timeframe together with the CT and/or ER, for the preparation of the proposal for remediation of environmental non-compliance.

h) The completed site inspection checklist will be signed by the EA, the CT and/or ER, for reference and for taking action in accordance with the agreed procedures, reporting systems and time frame.

3.4.3 Environmental Complaints

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

a) The ET will record the details of the complaint and the date of receipt into the complaint database, and inform ER immediately.

b) The ET will perform compliant investigation to determine its validity and to assess whether the source of the problem is due to work activities.

c) The ER will instruct the CT to identify mitigation measures in consultation with the ET, if the compliant is valid and due to works.

d) The ET will liaise with the CT on their mitigation measure proposals and implementation, if required.

e) The ET will conduct review of the CT's response on the identified mitigation measures, and of the updated situation.

f) The ET will submit interim report to EPD if the complaint is received via EPD. The interim report will clearly state the status of the complaint investigation and the follow-up action within the time frame assigned by EPD.

g) The ET will undertake additional monitoring and audit to verify the situation if necessary, and ensure that any valid reason for complaint does not recur.

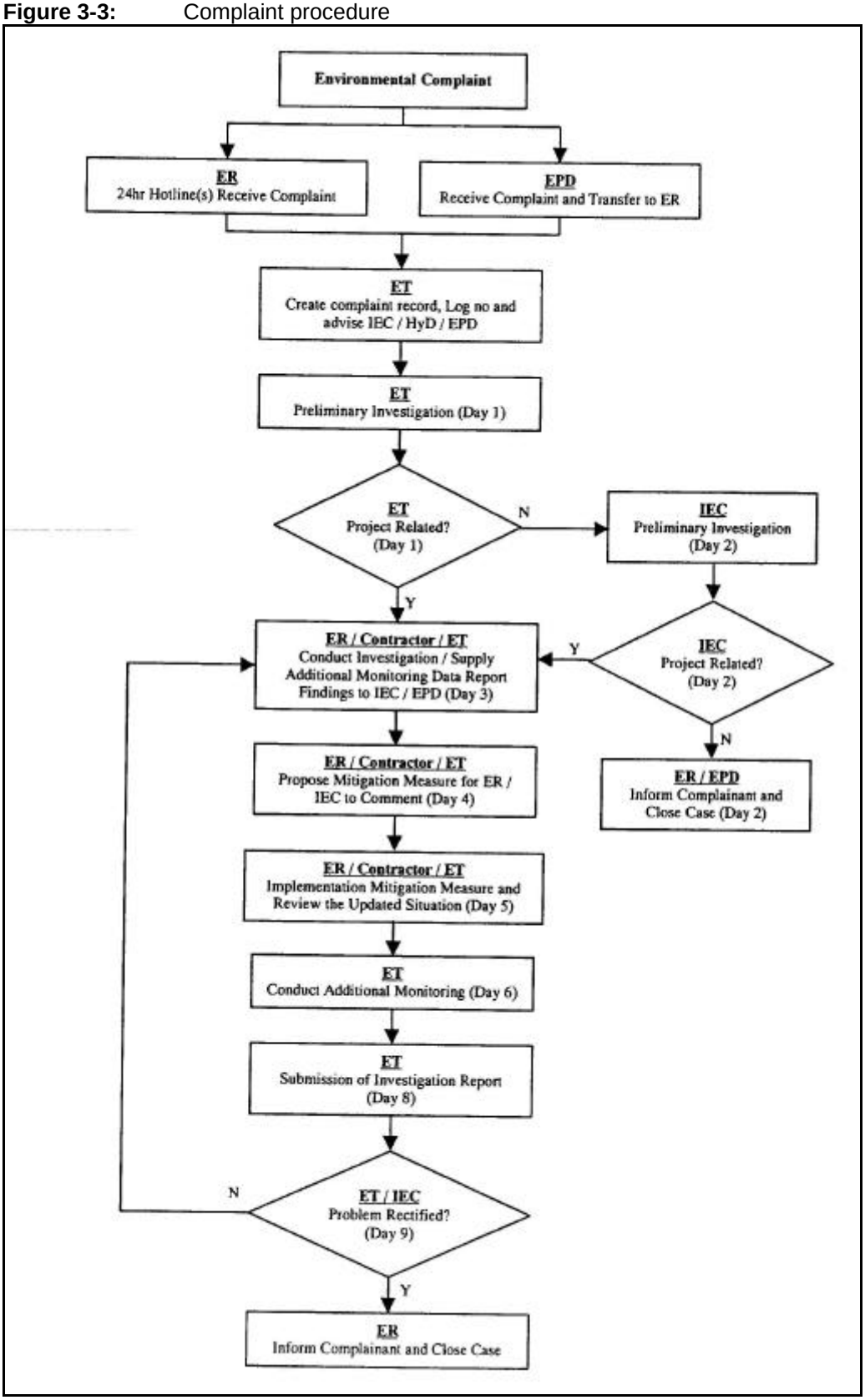
h) The ET will report on the investigation results and the subsequent actions to the source of complaint for responding to the complainant. If the source of complaint is via EPD, the results will be reported within the time frame assigned by EPD.

i) The ET will record the details of the complaint, investigation, subsequent actions and results in the monthly EM&A report.

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

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

Figure 3-3: Complaint procedure



4 Noise Monitoring

4.1 Monitoring Equipment

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

Table 5-1: Equipment list for construction noise monitoring

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

4.2 Methodology

4.2.1 Occupancy Status of Grand Bay Villa

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

4.2.2 Field Measurement

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

4.2.3 Equipment Maintenance and Calibration

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

4.3 Results and Observations

4.3.1 Occupancy Status of Grand Bay Villa

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

5 Marine Water Quality Monitoring

5.1 Marine Water Quality Monitoring Equipment

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

Table 5-1: Marine water quality monitoring equipment

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

5.2 Methodology

5.2.1 DO, Temperature and Salinity Measuring Equipment

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

i. The instrument was a portable, weatherproof dissolved oxygen measuring instrument complete with cable and used a DC power source. It was capable of measuring:
   - A dissolved oxygen level in the range of 0-20 mg/L and 0-200% saturation;
   - A temperature of 0-45^{o}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:

(1) 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.

(2) Water samples for SS measurement were collected in high density polythene bottles, packed in ice (cooled at 4^{o}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

Typhoon signal was issued from 08 to 11 August 2007 and amber rainstorm warning was issued on 06 and 22 August 2007.

5.3.2 Summary of Results

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

Summary of Mid-Ebb Tide

The lowest DO level for surface & middle position of 5.45 mg/L was recorded at WWFCZ2 on 17 August 2007 and the lowest DO level for bottom position of 5.38 mg/L was recorded at WWFCZ1 on 15 August 2007. There was no exceedance of DO level during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest depth-averaged Tby level of 8.0 Nephelometric Turbidity Unit (NTU) was recorded at WWA3 on 30 August 2007. There were 1 exceedance of Tby Action Level and 1 exceedance of Tby Limit Level on 30 August 2007 when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest SS level of 25.0 mg/L was recorded at WWA1 on 01 August 2007. There were 11 exceedances of SS Baseline Check Level on 01, 03, 28 and 30 August 2007 when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The exceedances of Tby and SS levels were likely attributed to construction works of the Project except for the SS level on 03 August 2007.

Summary of Mid-Flood Tide

The lowest DO level for surface & middle position of 5.41 mg/L was recorded at WWFCZ2 on 28 August 2007 and the lowest level for bottom position of 5.40 mg/L was recorded at WWA2 on 30 August 2007. There was no exceedance of DO level during reporting period

when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest depth-averaged Tby level of 6.4 NTU was recorded at WWA2 and WWA3 on 30 August 2007 respectively. There was no exceedance of Tby Level during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest SS level of 17.7 mg/L was recorded at WWFCZ1 on 03 August 2007. There were 2 exceedances of SS Baseline Check Criteria on 03 and 30 August 2007 when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The exceedances of SS Levels on 03 August 2007 was likely attributed to natural variation of marine water and that on 30 August 2007 was likely attributed to construction works of the Project.

Figure 5-1: DO levels (surface and middle level) at mid-ebb tide in August 2007

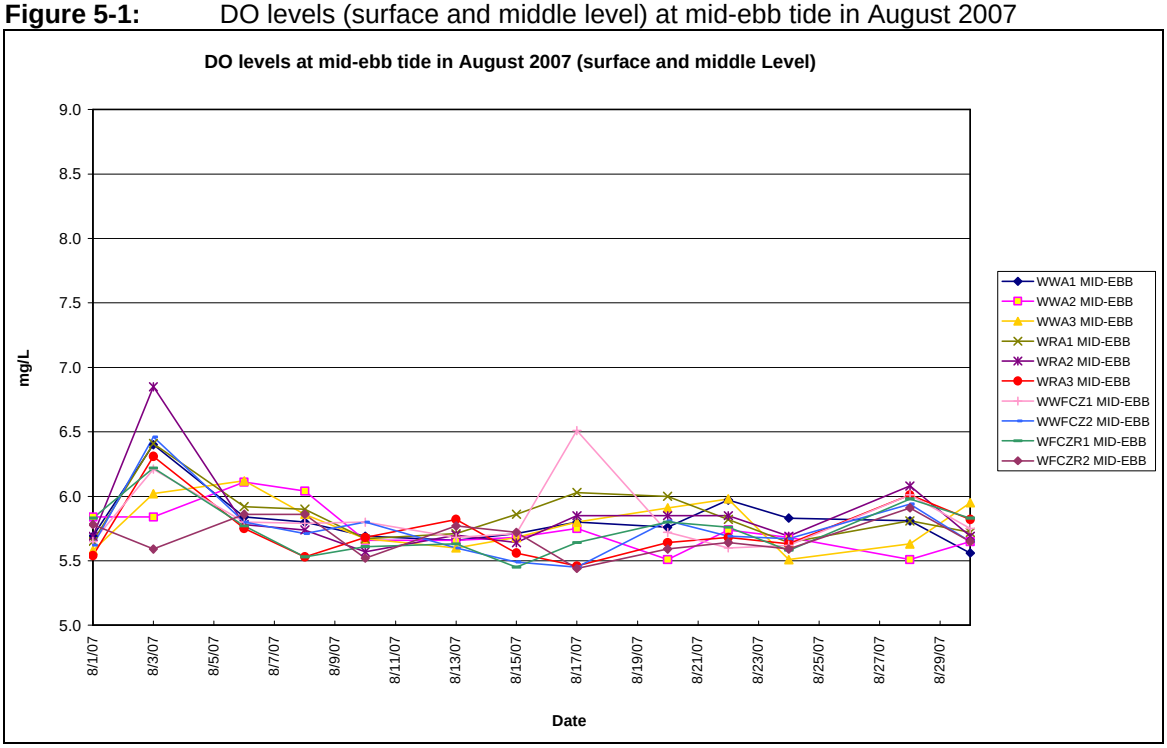


Figure 5-2: DO levels (bottom level) at mid-ebb tide in August 2007

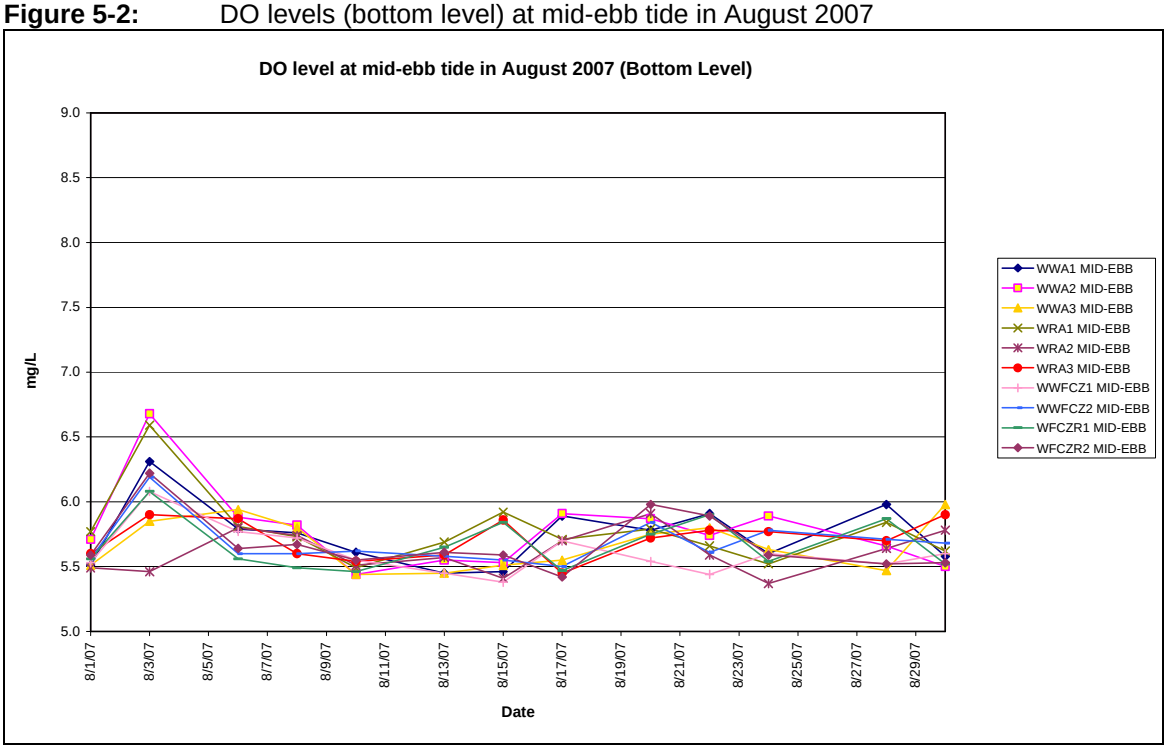


Figure 5-3: DO levels (surface and middle level) at mid-flood tide in August 2007

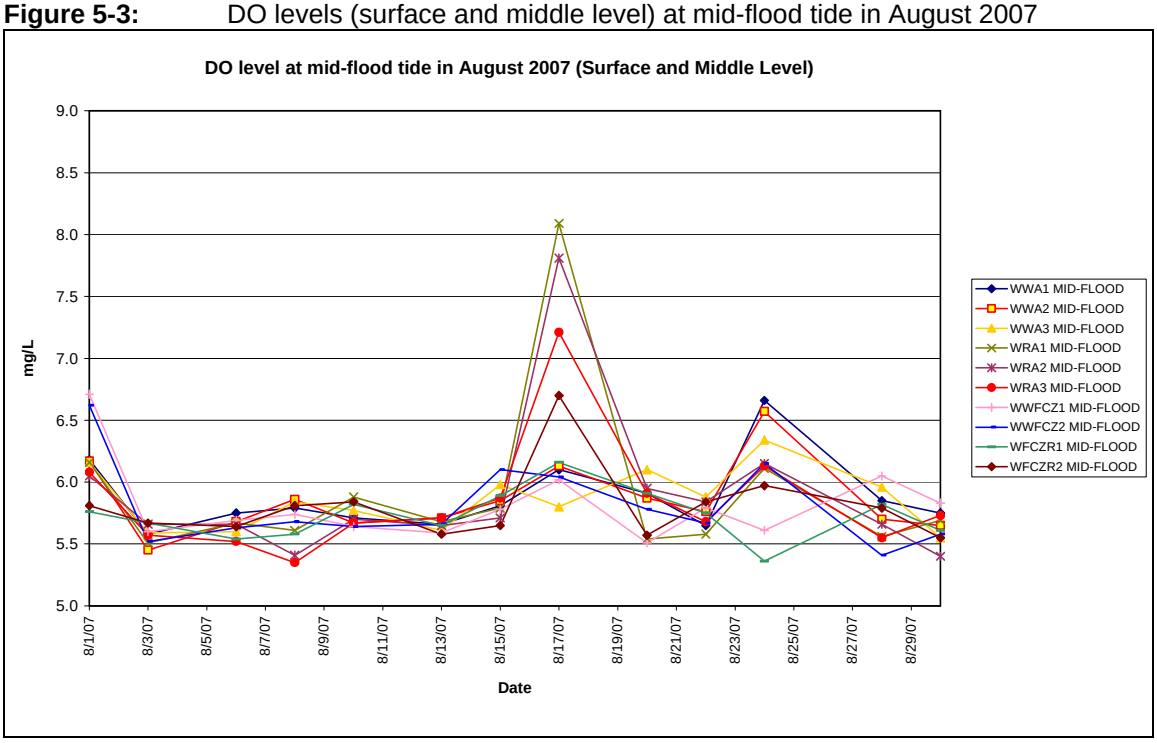


Figure 5-4: DO levels (bottom level) at mid-flood tide in August 2007

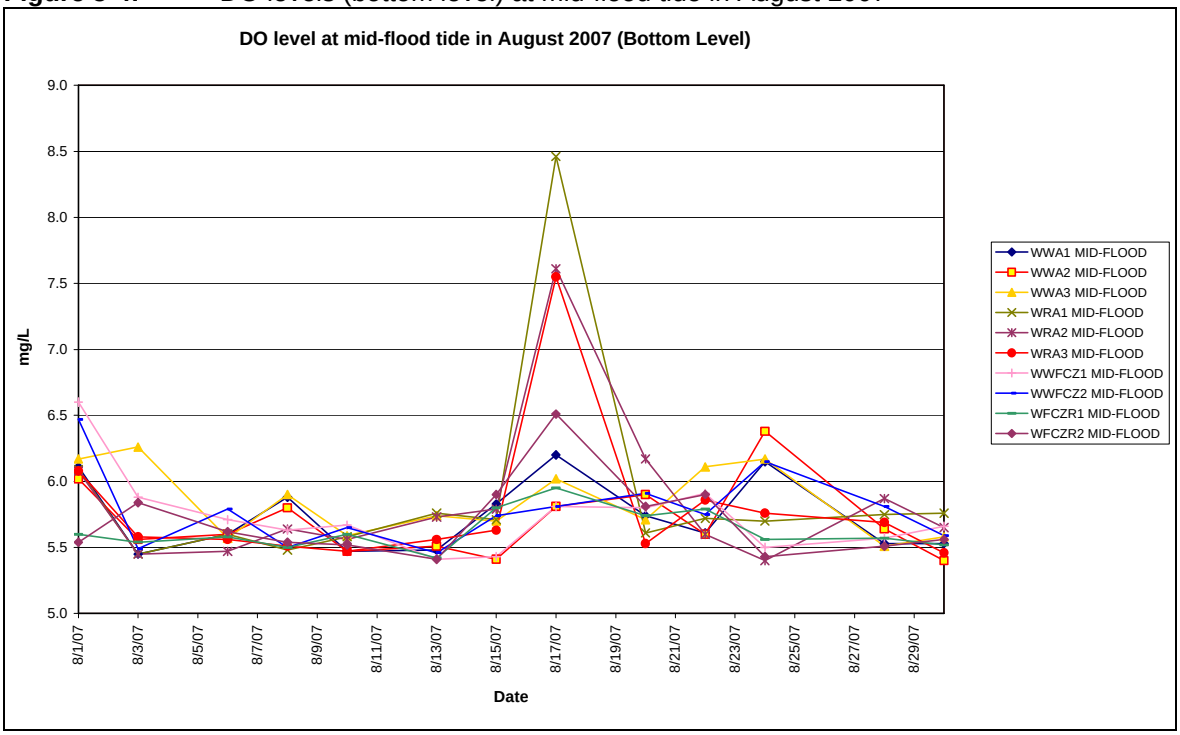


Figure 5-5: Turbidity levels at mid-ebb tide in August 2007

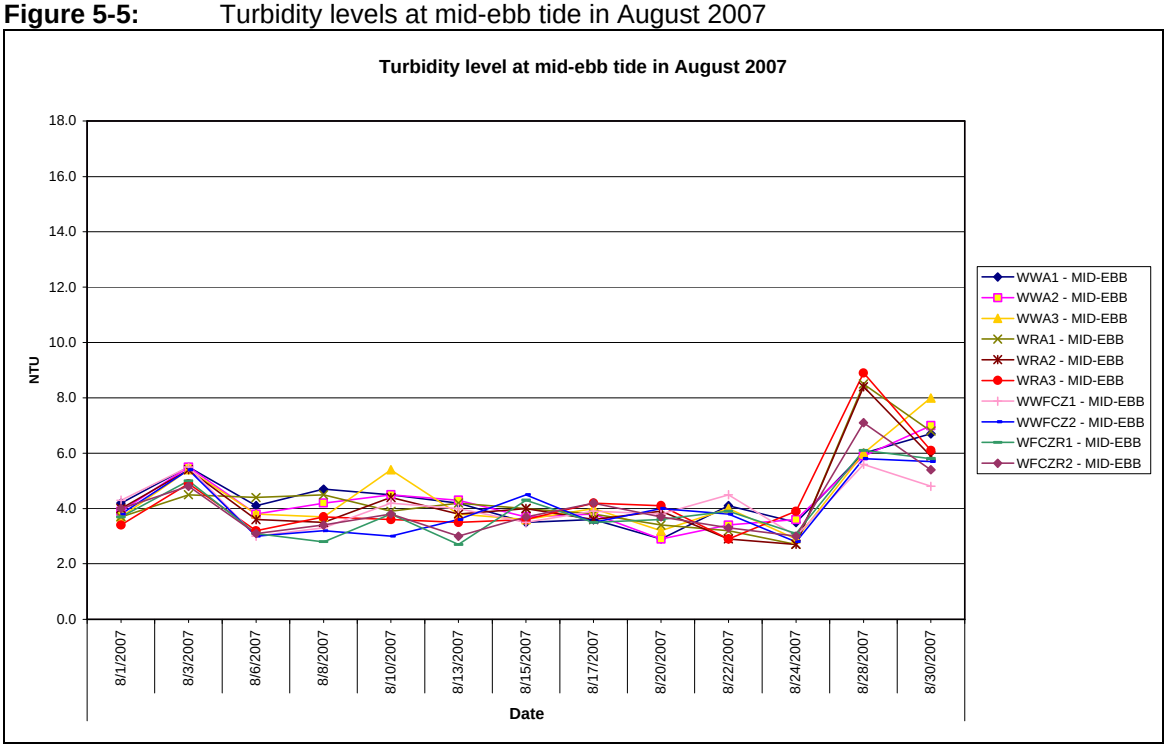


Figure 5-6: Turbidity levels at mid-flood tide in August 2007

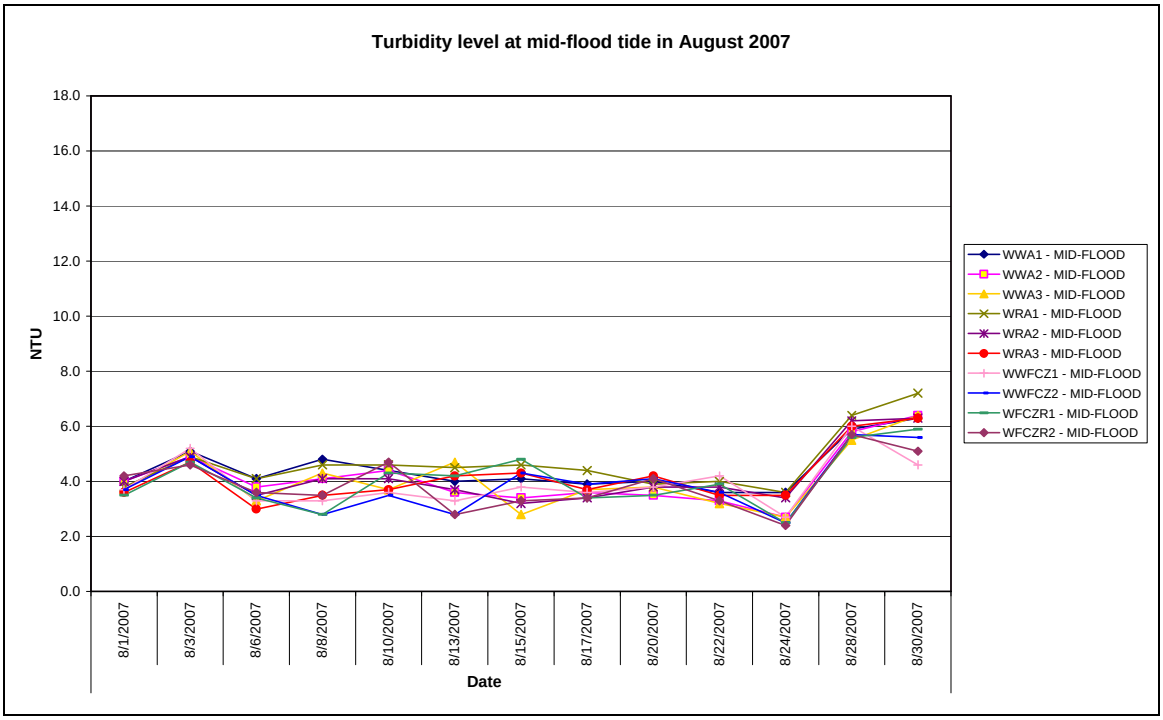


Figure 5-7: SS levels at mid-ebb tide in August 2007

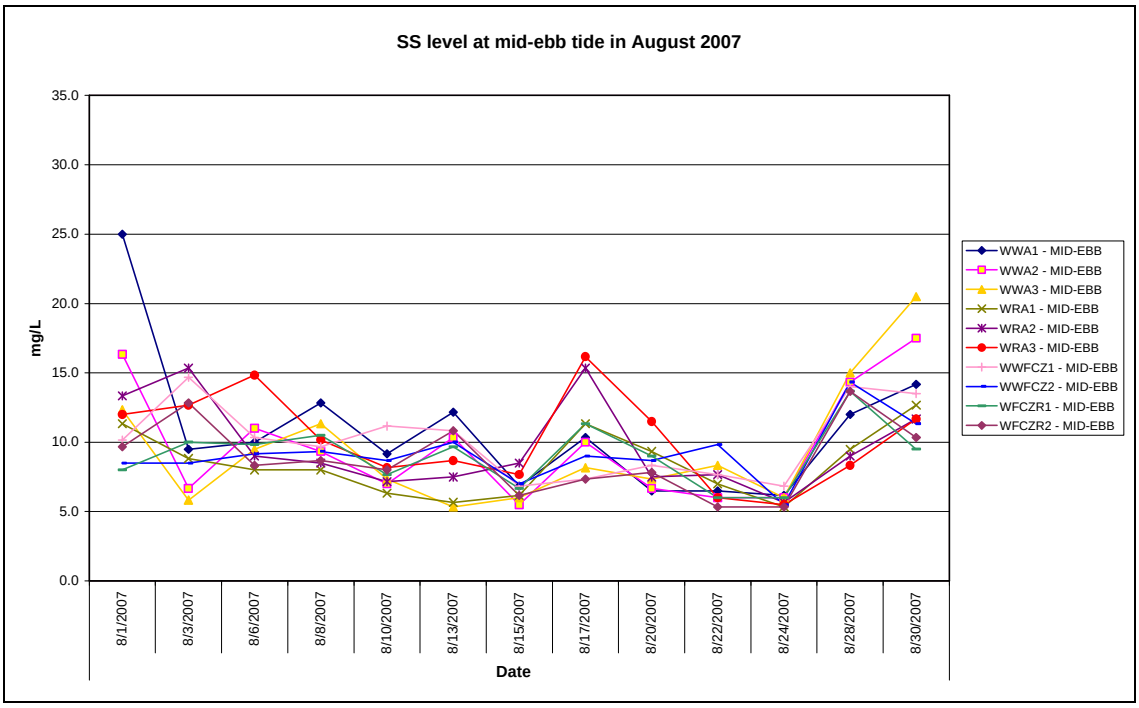
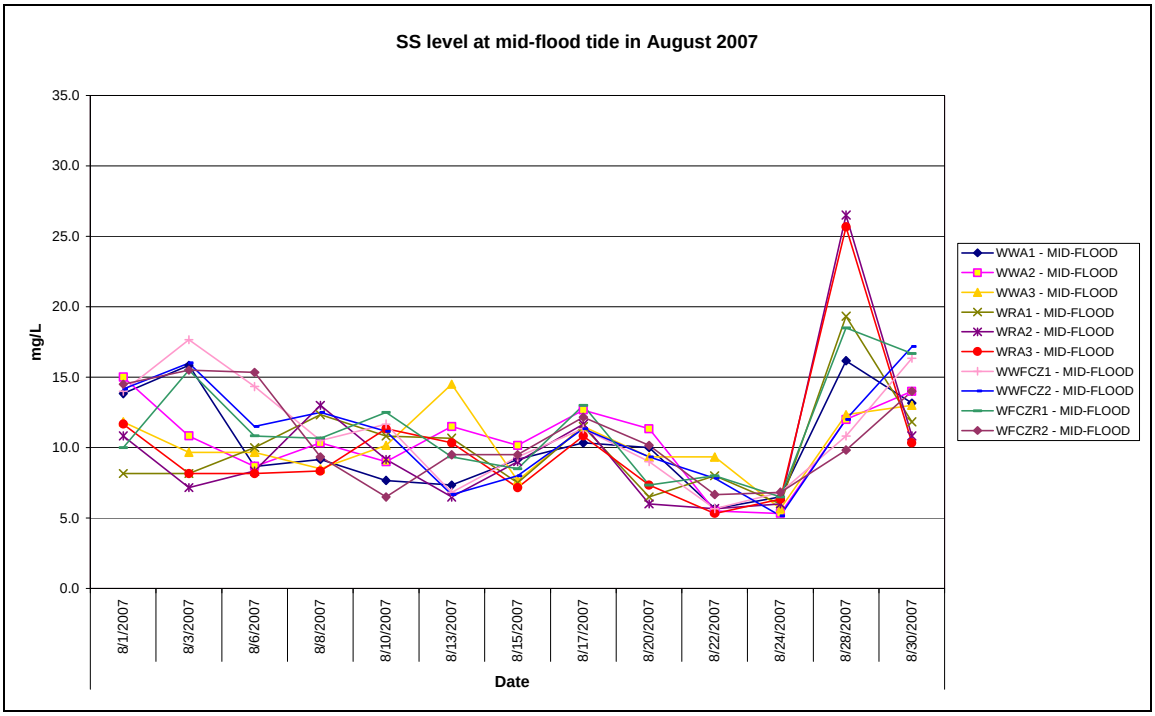


Figure 5-8: SS levels at mid-flood tide in August 2007



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 01, 10, 17, 24 and 31 August 2007. The findings of the site audits are summarised in **Table 6-1**.

Table 6-1: Findings of weekly environmental site audit in August 2007

Date of Issue Raised	Observation	Advice from EA	CT's Response / Action	Closing Date
01 August 2007 (WTLT 079)	1. Driptrays were not provided to the chemical waste containers.	CT was reminded to provide driptrays to all chemical waste containers.	Agreed with the ET's advice. CT had provided driptrays to chemical waste containers.	07 September 2007
	2. Stockpile was not covered at Chun Wo site office.	CT was reminded to cover the stockpile.	Agreed with the ET's advice. CT had provided covers to the stockpile and CT advised the stockpile would be opened for drying during daytime.	24 August 2007
	3. Black smoke was emitted from an air compressor.	CT was reminded to conduct maintenance of the air compressor.	Agreed with the ET's advice. CT had removed the air compressor from the site.	10 August 2007
	4. Haul road towards site office was observed dry and dusty.	CT was reminded to provide water spraying frequently.	Agreed with the ET's advice. CT had cleared dusty materials on the road surface.	24 August 2007
	5. Oil leakage was observed from an excavator at Castle Peak Road.	CT was reminded to repair the excavator promptly.	Agreed with ET's advice. CT had removed the excavator away from the site.	10 August 2007
	6. Stagnant water was observed at Slope D.	CT was reminded to clear the stagnant water.	Agreed with ET's advice. CT had installed pumps to remove the stagnant water in some areas.	On-going
	7. Cover for exposed slope at Seawall A was broken.	CT was reminded to reinstate the cover.	Agreed with ET's advice. CT had reinstated the cover.	17 August 2007
	8. Minor seepage of muddy water was observed from the silt curtain.	CT was reminded to repair the silt curtain promptly.	Agreed with ET's advice. CT advised the silt curtain was repaired on 02 Aug 2007. Seepage of muddy water was not observed In subsequent site audit.	10 August 2007

Date of Issue Raised	Observation	Advice from EA	CT's Response / Action	Closing Date
10 August 2007 (WTLT 080)	1. C&D waste and general refuse was observed within the site.	CT was reminded to clear the waste as soon as possible.	Removal of C&D waste was in progress in the reporting period.	On-going
	2. Muddy surface runoff was observed along haul road towards site office.	CT was reminded to cover the stockpile promptly and divert all surface run-off to a de-silting tank.	Agreed with the ET's advice. A de-silting was installed near site office and majority of stockpile was covered. CT advised the stockpile would be opened for drying during daytime.	17 August 2007
17 August 2007 (WTLT 081)	1. C&D waste was observed at Seawall A near GrandBay Villa.	CT was reminded to clear the waste.	Agreed with ET's advice. CT had cleared the C&D waste at Seawall A.	07 September 2007
	2. Wheel-washing was provided near Maeda site office and wash water was observed running onto vehicular road.	CT was reminded to divert all the wash water within the site boundary.	Agreed with ET's advice. The concerned area was paved and wash water was diverted back to the site.	31 August 2007
	3. An oil drum was observed without driptray near western end of the site. Oil stain was observed on the ground around the oil drum.	CT was reminded to provide driptray to the oil drum and clear the oil stain.	Agreed with ET's advice. The oil drum was removed from the site and oil stain was cleared.	24 August 2007
24 August 2007 (WTLT 082)	1. Seepage of muddy water was observed outside the silt curtain at Seawall B.	The exceedances of Tby and SS might be due to the reduced enclosed area of the silt curtain that may not sufficient to prevent dispersion of muddy water from the stockpile. The contractor is recommended to reinstate the silt curtain to its original position and remove the stockpile promptly.	CT advised that the stockpile would be removed in early September and they would closely monitor the function of silt curtain.	On-going
31 August 2007 (WTLT 083)	1. Chemical waste labels were not provided to chemical waste containers.	CT was reminded to provide chemical waste labels to each chemical waste storage containers.	Agreed with ET's advice. CT had provided labels to the chemical waste containters.	07 September 2007
	2. A backhoe was observed idling outside Chun Wo site office.	CT was reminded to switch off all equipment while not in use.	Agreed with ET's advice. CT had removed the backhoe from the site.	07 September 2007

Date of Issue Raised	Observation	Advice from EA	CT's Response / Action	Closing Date
	3. Haul road towards site office was observed dry and dusty.	CT was reminded to provide water spraying frequently.	Agreed with ET's advice. CT had provided water spraying over part if the haul road in subsequent site audit.	On-going
	4. Diesel oil was contained in a plastic bag which was fastened to the inlet of fuel tank of an air compressor on the slope towards Chun Wo site office.	CT was reminded to remove the plastic bag and repair the compressor to prevent oil leakage.	Agreed with ET's advice. CT had replaced the lid of the fuel tank.	07 September 2007

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**. CT transported C&D material to Public Filling Reception Facility in Tuen Mun Area 38 by truck during reporting period.

Table 6-2: Waste disposal quantity in August 2007

Type of waste or material		Disposal at	No. of loads or quantities
C&D waste		WENT Landfill	51.77 tonnes
C&D material	By barge	Public Filling Reception Facility in Tuen Mun Area 38	0
	By truck		911.12 tonnes
Chemical waste		Collected by licensed collector	0

6.3 Complaint Record

There was no environmental complaint received in August 2007.

6.4 Exceedance

Exceedances of Tby and SS levels for marine water quality were recorded during reporting period when compared with A/L Levels and baseline check criteria.

Investigation has been conducted for the exceedances. The exceedances of SS level recorded on 03 August 2007 were likely attributed to natural variation of marine water and the exceedances of Tby and SS levels recorded on 01, 28 and 30 August 2007 were likely attributed to construction works of the Project. The exceedances of Tby and SS might be due to the reduced enclosed area of the silt curtain that was incapable to prevent dispersion of muddy water from the stockpile. The contractor has been recommended to reinstate the silt curtain to its original position and to remove the stockpile promptly. CT advised that the stockpile would be removed in early September and would closely monitor the function of silt curtain.

These exceedances are summarised in **Tables 6-3 and 6-4.** The details of the investigation was summarised in **Appendix E**. The details of the silt curtain inspection record were given in **Appendix F**.

Table 6-3: Summary of exceedances of marine water quality monitoring (not related to construction works of the Project) in August 2007

Date	Tide	Location	Exceedances of monitoring data					
			Tby (NTU)			SS (mg/L)		
			Control Station	Impact Station	Exceedance of	Control Station	Impact Station	Exceedance of
03-Aug	Mid-ebb	WWFCZ1	-	-	-	10.0	14.7	Baseline Check
03-Aug	Mid-flood	WWFCZ1	-	-	-	15.5	17.7	Baseline Check

Table 6-4: Summary of exceedances of marine water quality monitoring (related to construction works of the Project) in August 2007

Date	Tide	Location	Exceedances of monitoring data					
			Tby (NTU)			SS (mg/L)		
			Control Station	Impact Station	Exceedance of	Control Station	Impact Station	Exceedance of
01-Aug	Mid-ebb	WWA1	-	-	-	11.3	25.0	Baseline Check
01-Aug	Mid-ebb	WWA2	-	-	-	13.3	16.3	Baseline Check
28-Aug	Mid-ebb	WWA2	-	-	-	9.0	14.3	Baseline Check
28-Aug	Mid-ebb	WWA3	-	-	-	8.3	15.0	Baseline Check
28-Aug	Mid-ebb	WWFCZ1	-	-	-	13.7	14.0	Baseline Check
28-Aug	Mid-ebb	WWFCZ2	-	-	-	13.7	14.3	Baseline Check
30-Aug	Mid-ebb	WWA1	-	-	-	12.7	14.2	Baseline Check
30-Aug	Mid-ebb	WWA2	5.9	7.0	Limit Level	11.7	17.5	Baseline Check
30-Aug	Mid-ebb	WWA3	6.1	8.0	Action Level	11.7	20.5	Baseline Check
30-Aug	Mid-ebb	WWFCZ1	-	-	-	9.5	13.5	Baseline Check
30-Aug	Mid-flood	WWFCZ2	-	-	-	14.0	17.2	Baseline Check

6.5 Notification of Summons and Successful Prosecution

No notification of summons and prosecution was received in August 2007.

6.6 Environmental Licenses

No new environmental licence was granted in the reporting period. A summary of the valid environmental licences is given in **Table 6-5.**

Table 6-5: Summary of valid environmental licences in August 2007

Type of Licence	Reference No.	Valid from	Valid to
Environmental Permit	EP-219/2005	20 Jun 2005	Not applicable
Registration of Chemical Waste Producer	5111-336-C2869-49	16 Feb 2006	Not applicable

Water Discharge Licence	EP760/336/011348 I	31 Mar 2006	31 Mar 2011
Construction Noise Permit	GW-RW 0155-07	04 Apr 2007	15 Aug 2007

7 Conclusions

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

The exceedances of SS level recorded on 03 August 2007 were likely attributed to natural variation of marine water and the exceedances of Tby and SS levels recorded on 01, 28 and 30 August 2007 were likely attributed to construction works of the Project. The exceedances of Tby and SS might be due to the reduced enclosed area of the silt curtain that was incapable to prevent dispersion of muddy water from the stockpile. The contractor has been recommended to reinstate the silt curtain to its original position and to remove the stockpile promptly. CT advised that the stockpile would be removed in early September and would closely monitor the function of silt curtain.

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. Environmental mitigation measures on air quality, water quality and waste management have been recommended.

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

8 References

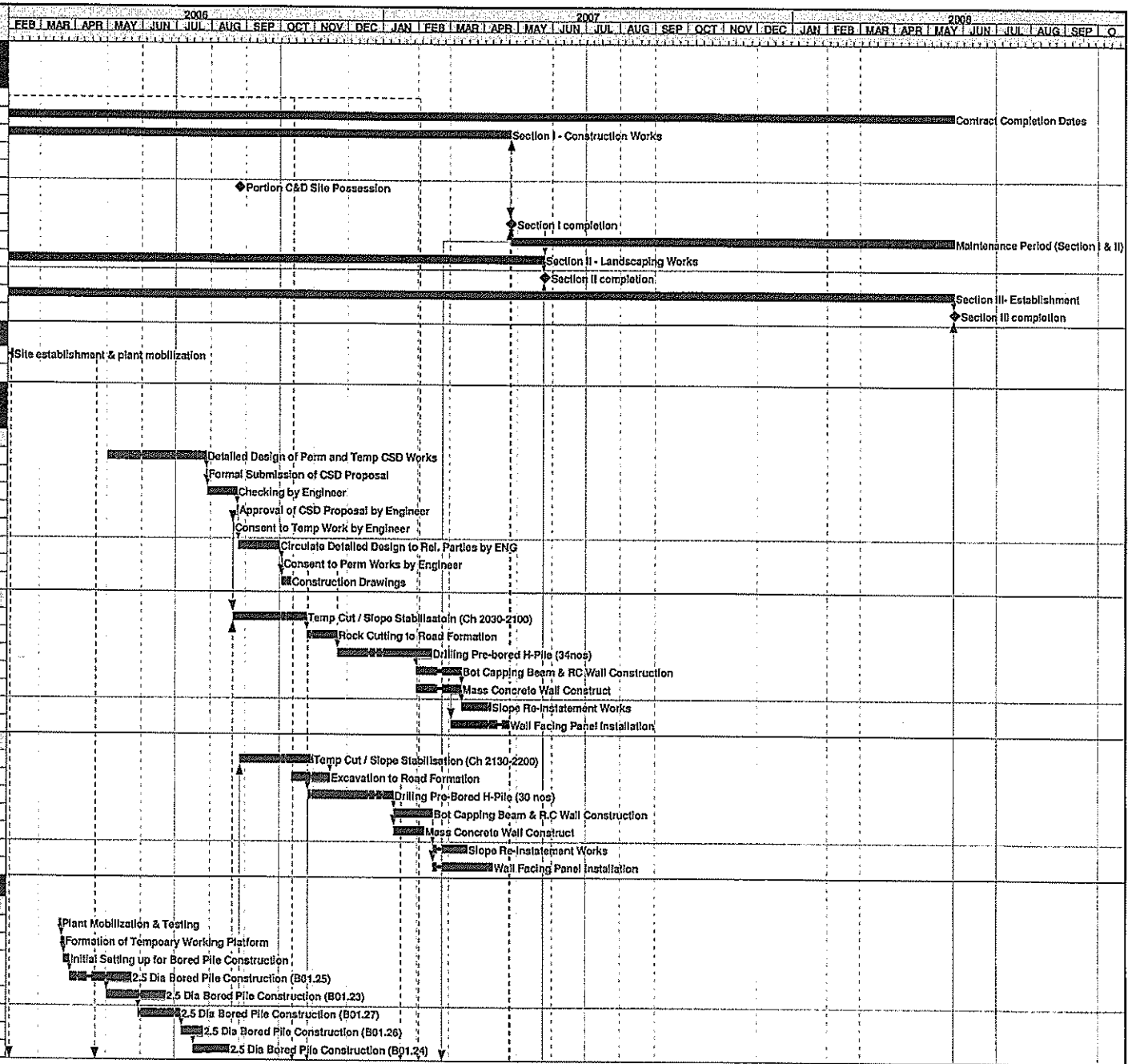
[1] Mouchel Halcrow Joint Venture. January 2006. Supplementary Agreement No.1 – Remaining Project EM&A Manual for Construction of Reclamation West of Tsing Lung Tau.

[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
GENERAL				
KEY DATES				
KD0500	Commencement of Works	0	21/12/05	
KD1000	Contract Completion Dates	885	21/12/05	23/05/08
KD1100	Section I - Construction Works	490	21/12/05	24/04/07
KD1110	Portion A Site Possession	0	21/12/05	
KD1120	Portion B Site Possession	0	21/12/05	
KD1130	Portion C&D Site Possession	0	27/08/06*	
KD1140	Portion E Site Possession	0	21/12/05	
KD1200	Section I completion	0		24/04/07
KD1300	Maintenance Period (Section I & II)	395	25/04/07	23/05/08
KD1400	Section II - Landscaping Works	520	21/12/05	24/05/07
KD1500	Section II completion	0		24/05/07
KD1600	Section III- Establishment	885	21/12/05	23/05/08
KD1700	Section III completion	0		23/05/08
PRELIMINARIES				
P1000	Site establishment & plant mobilization	40	21/12/05	05/02/06
P1010	Submit TTM Schematic Drawing (PS1.15S(16))	0		20/12/05
Area 4 Construction(Ch2+030 to Ch2+150)				
Pre-Bored H-Pile Wall at Both Ends at GL				
Pre-Construction				
4PP0100	Detailed Design of Perm and Temp CSD Works	72	02/05/06*	27/07/06
4PP0110	Formal Submission of CSD Proposal	1	28/07/06	28/07/06
4PP0120	Checking by Engineer	23	29/07/06	24/08/06
4PP0130	Approval of CSD Proposal by Engineer	1	25/08/06	25/08/06
4PP0135	Consent to Temp Work by Engineer	1	21/08/06	21/08/06
4PP0150	Circulate Detailed Design to Rel. Parties by ENG	31	26/08/06	30/09/06
4PP0155	Consent to Perm Works by Engineer	1	03/10/06	03/10/06
4PP0160	Construction Drawings	7	03/10/06	11/10/06
Construction - West Side				
A04PP1022	Temp Cut / Slope Stabilisatoin (Ch 2030-2100)	55	21/08/06	25/10/06
A04PP1026	Rock Cutting to Road Formation	22	26/10/06	21/11/06
4PP1030	Drilling Pre-bored H-Pile (34nos)	68	22/11/06	13/02/07
4PP1040	Bot Capping Beam & RC Wall Construction	30	31/01/07	12/03/07
4PP1050	Mass Concrete Wall Construct	30	31/01/07	12/03/07
4PP1060	Slope Re-Instatement Works	22	13/03/07	07/04/07
4PP1070	Wall Facing Panel Installation	40	03/03/07	23/04/07
Construction - East Side				
4PP2000	Temp Cut / Slope Stabilisation (Ch 2130-2200)	53	28/08/06	31/10/06
4PP2020	Excavation to Road Formation	28	13/10/06	15/11/06
4PP2030	Drilling Pre-Bored H-Pile (30 nos)	60	27/10/06	10/01/07
4PP2040	Bot Capping Beam & R.C Wall Construction	30	11/01/07	14/02/07
4PP2100	Mass Concrete Wall Construct	24	11/01/07	07/02/07
4PP2110	Slope Re-Instatement Works	22	15/02/07	17/03/07
4PP2120	Wall Facing Panel Installation	40	15/02/07	09/04/07
Bored Pile Retaining Wall Construction				
Bored Pile Construction - B01.23 - B01.33				
4BP3000	Plant Mobilization & Testing	2	20/03/06*	21/03/06
4BP3010	Formation of Tempoary Working Platform	3	22/03/06	24/03/06
4BP3020	Initial Setting up for Bored Pile Construction	5	24/03/06	29/03/06
4BP3030	2.5 Dia Bored Pile Construction (B01.25)	41	30/03/06	23/05/06
4BP3040	2.5 Dia Bored Pile Construction (B01.23)	43	02/05/06	22/06/06
4BP3050	2.5 Dia Bored Pile Construction (B01.27)	31	30/05/06	06/07/06
4BP3060	2.5 Dia Bored Pile Construction (B01.26)	15	08/07/06	25/07/06
4BP3070	2.5 Dia Bored Pile Construction (B01.24)	28	18/07/06	18/08/06



Start Date 21/12/05
Finish Date 23/05/08
Data Date 21/12/05
Run Date 22/08/06 15:00

Early Bar
Progress Bar
Critical Activity

CSD2 Sheet 1 of 5

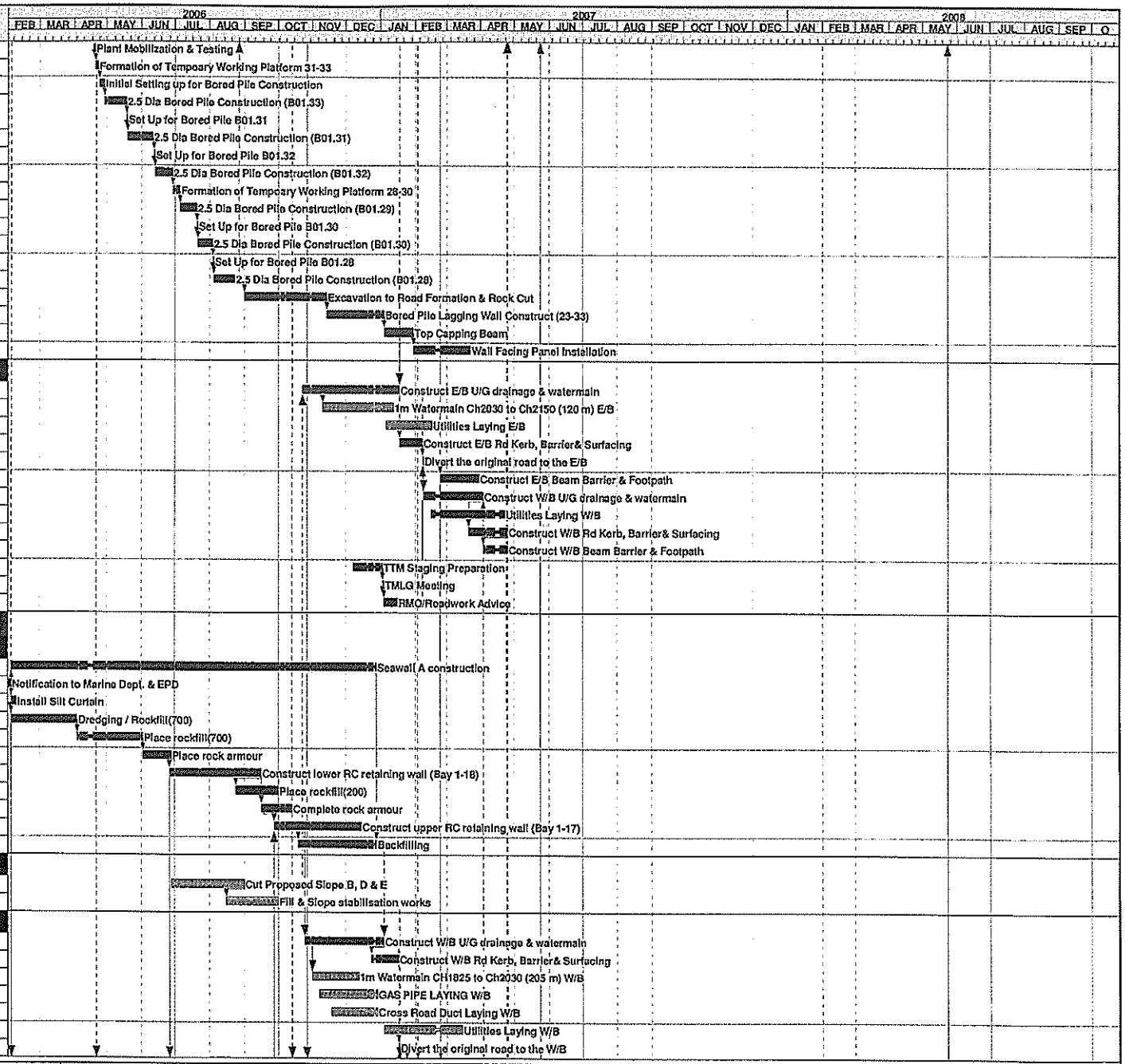
Chun Wo Construction & Eng. Co. Ltd

Contract No. HY/2005/06
Castle Peak Road Improvment West of Tsing Lung Tau

CSD Works Programme Rev 1

Date	Revision	Checked	Approved
02/08/06	0		
21/08/06	1		

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
4BP3080	Plant Mobilization & Testing	2	18/04/06*	19/04/06
4BP3090	Formation of Tempoary Working Platform 31-33	3	20/04/06	22/04/06
4BP3100	Initial Setting up for Bored Pile Construction	5	24/04/06	28/04/06
4BP3110	2.5 Dia Bored Pile Construction (B01.33)	15	29/04/06	18/05/06
4BP3115	Set Up for Bored Pile B01.31	1	19/05/06	19/05/06
4BP3120	2.5 Dia Bored Pile Construction (B01.31)	18	20/05/06	10/06/06
4BP3125	Set Up for Bored Pile B01.32	1	12/06/06	12/06/06
4BP3130	2.5 Dia Bored Pile Construction (B01.32)	14	13/06/06	28/06/06
4BP3131	Formation of Tempoary Working Platform 28-30	5	29/06/06	05/07/06
4BP3132	2.5 Dia Bored Pile Construction (B01.29)	13	06/07/06	20/07/06
4BP3133	Set Up for Bored Pile B01.30	1	21/07/06	21/07/06
4BP3134	2.5 Dia Bored Pile Construction (B01.30)	11	22/07/06	03/08/06
4BP3135	Set Up for Bored Pile B01.28	1	04/08/06	04/08/06
4BP3136	2.5 Dia Bored Pile Construction (B01.28)	16	05/08/06	23/08/06
4BP3150	Excavation to Road Formation & Rock Cut	60	01/09/06	13/11/06
4BP3160	Bored Pile Lagging Wall Construct (23-33)	40	14/11/06	03/01/07
4BP3170	Top Capping Beam	22	04/01/07	29/01/07
4BP3180	Wall Facing Panel Installation	40	30/01/07	22/03/07
Roadworks Construction				
4RW4100	Construct E/B U/G drainage & watermain	70	23/10/06	17/01/07
A0UU25900	1m Watermain Ch2030 to Ch2150 (120 m) E/B	50	10/11/06	11/01/07
A04RW4200	Utilities Laying E/B	35*	06/01/07	15/02/07
4RW4110	Construct E/B Rd Kerb, Barrier& Surfacing	18	18/01/07	07/02/07
4RW4500	Divert the original road to the E/B	1	08/02/07	08/02/07
4RW4505	Construct E/B Beam Barrier & Footpath	30	24/02/07	30/03/07
4RW4600	Construct W/B U/G drainage & watermain	40	09/02/07	02/04/07
A04RW4100	Utilities Laying W/B	48*	15/02/07	21/04/07
4RW4610	Construct W/B Rd Kerb, Barrier& Surfacing	26	21/03/07	24/04/07
4RW4615	Construct W/B Beam Barrier & Footpath	15	03/04/07	24/04/07
4RW4620	TTM Staging Preparation	19	07/12/06	02/01/07
4RW4630	TMLG Meeting	1	03/01/07	03/01/07
4RW4640	RMO/Roadwork Advice	10	04/01/07	15/01/07
Area 3 Construction(Ch1+825 to Ch2+030)				
Seawall A Construction				
3SWA0500	Seawall A construction	266*	04/02/06	27/12/06
3SWA0600	Notification to Marine Dept. & EPD	28	07/01/06	03/02/06
A03SWA100	Install Silt Curtain	4	04/02/06	08/02/06
3SWA1000	Dredging / Rockfill(700)	50	04/02/06	03/04/06
3SWA1100	Place rockfill(700)	45	04/04/06	02/06/06
3SWA1200	Place rock armour	21	03/06/06	27/06/06
3SWA1300	Construct lower RC retaining wall (Bay 1-18)	70	26/06/06	15/09/06
3SWA1400	Place rockfill(200)	32	25/08/06	30/09/06
3SWA1500	Complete rock armour	22	16/09/06	13/10/06
3SWA1600	Construct upper RC retaining wall (Bay 1-17)	64	28/09/06	14/12/06
3SWA1700	Backfilling	56	19/10/06	27/12/06
Slope Works				
3SW1000	Cut Proposed Slope B, D & E	55	28/06/06*	31/08/06
3SW2000	Fill & Slope stabilisation works	40	16/08/06	30/09/06
Roadworks Construction				
3RW2100	Construct W/B U/G drainage & watermain	56	25/10/06	03/01/07
3RW2110	Construct W/B Rd Kerb, Barrier& Surfacing	18	23/12/06	16/01/07
A0UU26200	1m Watermain CH1825 to Ch2030 (205 m) W/B	35	01/11/06	11/12/06
A03RW4200	GAS PIPE LAYING W/B	42	07/11/06	28/12/06
A03RW4100	Cross Road Duct Laying W/B	32*	18/11/06	28/12/06
A03RW4000	Utilities Laying W/B	56*	04/01/07	15/03/07
3RW2500	Divert the original road to the W/B	1	17/01/07	17/01/07



Date 21/12/05
Data Date 23/05/06
Print Date 21/12/05
Plot Date 22/06/06 15:00

Early Bar
Progress Bar
Critical Activity

CSD2

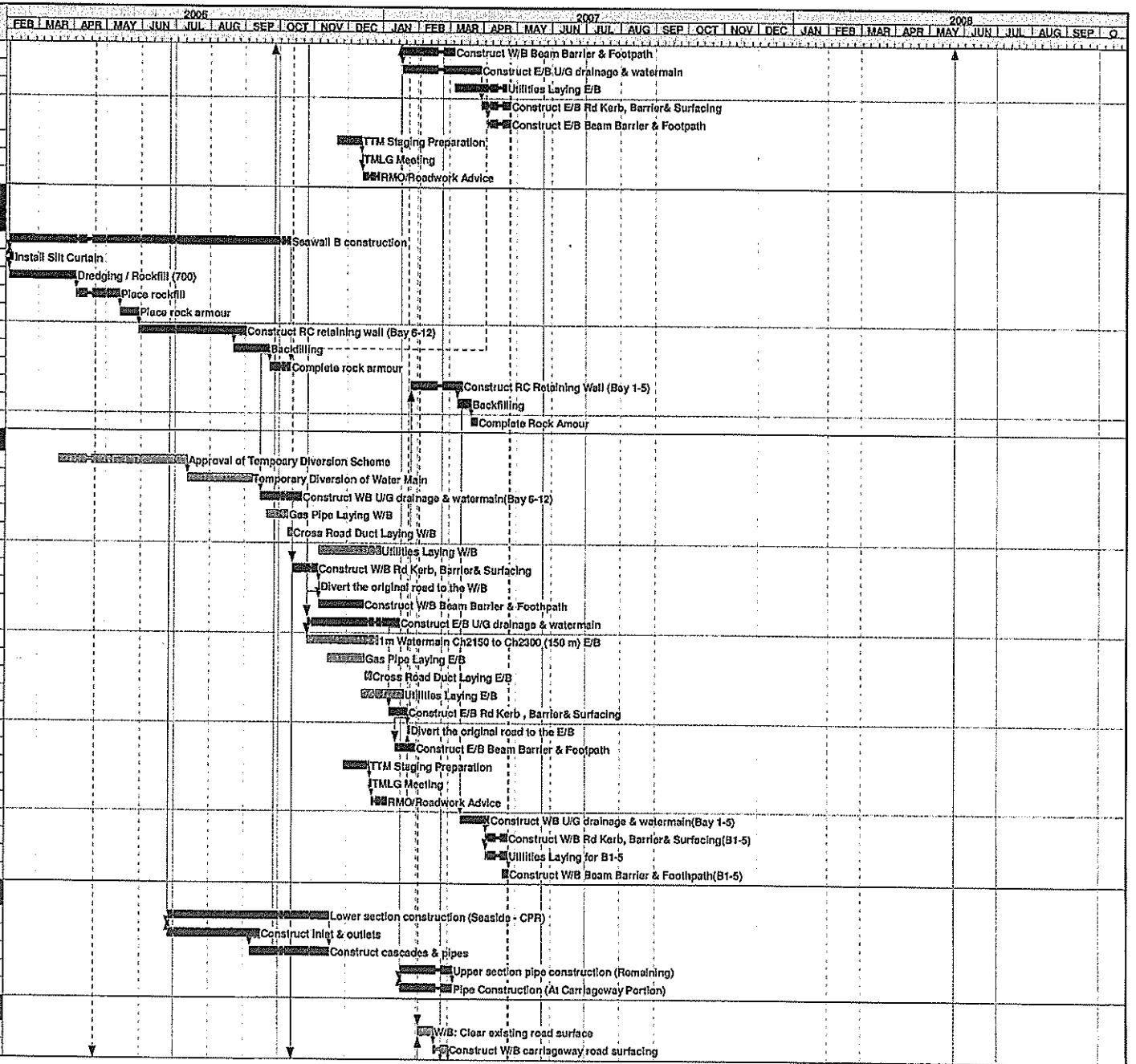
Chun Wo Construction & Eng. Co. Ltd

Contract No. HY/2005/06
Castle Peak Road Improvment West of Tsing Lung Tau

Sheet 2 of 5

Date	Revision	Checked	Approved
02/06/06	0		
21/06/06	1		

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
3RW2505	Construct W/B Beam Barrier & Footpath	35	18/01/07	05/03/07
3RW2600	Construct E/B U/G drainage & watermain	56	18/01/07	29/03/07
A03RW4500	Utilities Laying E/B	36*	06/03/07	20/04/07
3RW2605	Construct E/B Rd Kerb, Barrier& Surfacing	18	30/03/07	24/04/07
3RW2608	Construct E/B Beam Barrier & Footpath	14	04/04/07	24/04/07
3RW2610	TTM Staging Preparation	19	21/11/06	12/12/06
3RW2620	TMLG Meeting	1	13/12/06	13/12/06
3RW2630	RMO/Roadwork Advice	10	14/12/06	28/12/06
Area 5 Construction(Ch2+150 to Ch2+300)				
Seawall B Construction				
2SWB0500	Seawall B construction	204*	04/02/06	11/10/06
A02SWB100	Install Silt Curtain	3	04/02/06	07/02/06
2SWB1000	Dredging / Rockfill (700)	50	04/02/06	03/04/06
2SWB1100	Place rockfill	28	04/04/06	12/05/06
2SWB1200	Place rock armour	14	13/05/06	29/05/06
2SWB1300	Construct RC retaining wall (Bay 6-12)	80	30/05/06	01/09/06
2SWB1400	Backfilling	28	22/08/06	22/09/06
2SWB1500	Complete rock armour	14	23/09/06	11/10/06
A02SWB0500	Construct RC Retaining Wall (Bay 1-5)	35	26/01/07	13/03/07
A02SWB1000	Backfilling	10	09/03/07	20/03/07
A02SWB1100	Complete Rock Amour	5	21/03/07	26/03/07
Roadworks Construction				
A02RW0100	Approval of Tempoary Diversion Scheme	90	20/03/06*	11/07/06
A02RW0500	Temporary Diversion of Water Main	50	12/07/06	07/09/06
2RW3000	Construct WB U/G drainage & watermain(Bay 6-12)	30	15/09/06	21/10/06
A02RW1900	Gas Pipe Laying W/B	14	21/09/06	09/10/06
A02RW1800	Cross Road Duct Laying W/B	4*	10/10/06	13/10/06
A02RW1600	Utilities Laying W/B	45*	05/11/06	30/12/06
2RW3010	Construct W/B Rd Kerb, Barrier& Surfacing	18	14/10/06	04/11/06
2RW3501	Divert the original road to the W/B	1	06/11/06	06/11/06
2RW3510	Construct W/B Beam Barrier & Foothpath	35	06/11/06	15/12/06
2RW3600	Construct E/B U/G drainage & watermain	65	27/10/06	16/01/07
A0UU26000	1m Watermain Ch2150 to Ch2300 (150 m) E/B	50	27/10/06	28/12/06
A02RW2100	Gas Pipe Laying E/B	28	15/11/06	16/12/06
A02RW2000	Cross Road Duct Laying E/B	4*	18/12/06	22/12/06
A02RW1700	Utilities Laying E/B	28*	15/12/06	20/01/07
2RW3610	Construct E/B Rd Kerb , Barrier& Surfacing	15	08/01/07	24/01/07
2RW3500	Divert the original road to the E/B	1	25/01/07	25/01/07
2RW3620	Construct E/B Beam Barrier & Footpath	15	13/01/07	30/01/07
2RW3700	TTM Staging Preparation	19	29/11/06	21/12/06
2RW3710	TMLG Meeting	1	22/12/06	22/12/06
2RW3720	RMO/Roadwork Advice	10	23/12/06	06/01/07
A02RW1100	Construct WB U/G drainage & watermain(Bay 1-5)	22	13/03/07	07/04/07
A02RW1300	Construct W/B Rd Kerb, Barrier& Surfacing(B1-5)	13	04/04/07	23/04/07
A02RW1200	Utilities Laying for B1-5	13	04/04/07	23/04/07
A02RW1400	Construct W/B Beam Barrier & Foothpath(B1-5)	5	19/04/07	24/04/07
OUTFALL EA & EB CONSTRUCTION				
3OF1000	Lower section construction (Seaside - CPR)	120*	26/06/06	16/11/06
3OF1100	Construct inlet & outlets	70	26/06/06	15/09/06
3OF1200	Construct cascades & pipes	58	07/09/06	16/11/06
3OF2000	Upper section pipe construction (Remaining)	35*	18/01/07	05/03/07
3OF2100	Pipe Construction (At Carriageway Portion)	35	18/01/07	05/03/07
Area 1 Construction (Ch1+600 to Ch1+705)				
5RW0500	W/B: Clear existing road surface	12	03/02/07	16/02/07
5RW1500	Construct W/B carriageway road surfacing	6	17/02/07	01/03/07



Start Date 21/12/05
Finish Date 23/03/09
Data Date 21/12/05
Run Date 22/08/06 15:00

Early Bar
Progress Bar
Critical Activity

CSD2

Sheet 3 of 5

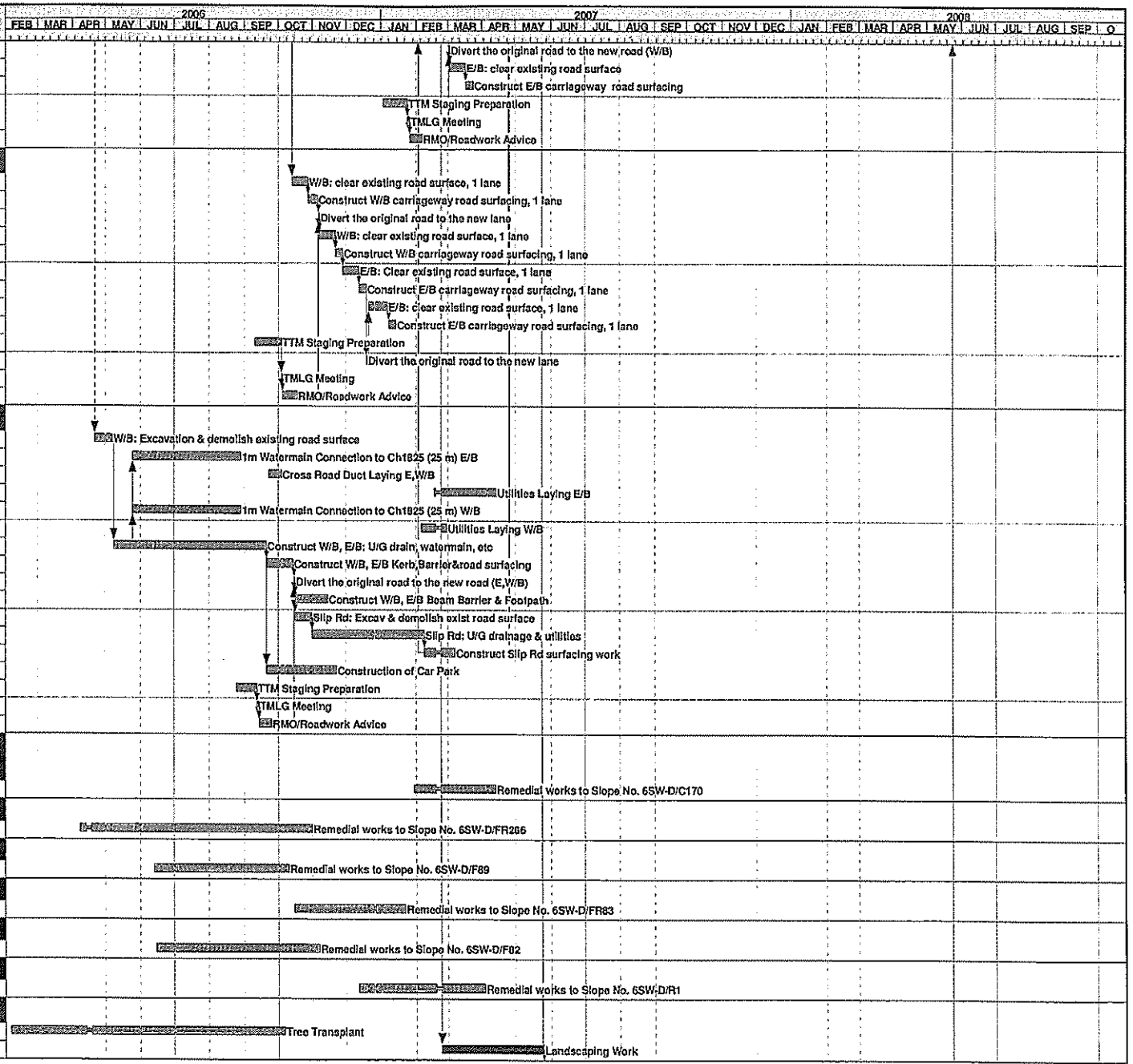
Chun Wo Construction & Eng. Co. Ltd

Contract No. HY/2005/06
Castle Peak Road Improvment West of Tsing Lung Tau

CSD Works Programme Rev 1

Date	Revision	Checked	Approved
02/08/06	0		
21/08/06	1		

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
RW2000	Divert the original road to the new road (W/B)	1	02/03/07	02/03/07
RW2500	E/B: clear existing road surface	12	03/03/07	16/03/07
RW3500	Construct E/B carriageway road surfacing	6	17/03/07	23/03/07
RW3510	TTM Staging Preparation	19	03/01/07	24/01/07
RW3520	TMLG Meeting	1	25/01/07	25/01/07
RW3530	RMO/Roadwork Advice	10	26/01/07	06/02/07
Area 6 Construction(Ch2+300 to Ch2+400)				
RW0500	W/B: clear existing road surface, 1 lane	12	14/10/06	27/10/06
RW1500	Construct W/B carriageway road surfacing, 1 lane	6	28/10/06	04/11/06
RW2000	Divert the original road to the new lane	1	06/11/06	06/11/06
RW2100	W/B: clear existing road surface, 1 lane	12	07/11/06	20/11/06
RW2200	Construct W/B carriageway road surfacing, 1 lane	6	21/11/06	27/11/06
RW2500	E/B: Clear existing road surface, 1 lane	12	28/11/06	11/12/06
RW3500	Construct E/B carriageway road surfacing, 1 lane	6	12/12/06	18/12/06
RW3501	E/B: clear existing road surface, 1 lane	12	21/12/06	06/01/07
RW3502	Construct E/B carriageway road surfacing, 1 lane	6	08/01/07	13/01/07
RW3510	TTM Staging Preparation	19	11/09/06	03/10/06
RW3511	Divert the original road to the new lane	1	19/12/06	19/12/06
RW3520	TMLG Meeting	1	04/10/06	04/10/06
RW3530	RMO/Roadwork Advice	10	05/10/06	17/10/06
Area 2 Construction(Ch1+705 to Ch1+825)				
RW0500	W/B: Excavation & demolish existing road surface	12	21/04/06*	06/05/06
0UU25700	1m Watermain Connection to Ch1825 (25 m) E/B	80	25/05/06	28/08/06
01RW0800	Cross Road Duct Laying E,W/B	8	23/09/06	03/10/06
01RW0600	Utilities Laying E/B	42*	17/02/07	13/04/07
0UU26100	1m Watermain Connection to Ch1825 (25 m) W/B	80	25/05/06	28/08/06
01RW0700	Utilities Laying W/B	14*	06/02/07	27/02/07
RW1000	Construct W/B, E/B: U/G drain, watermain, etc	115	08/05/06	20/09/06
RW1500	Construct W/B, E/B Kerb,Barrier&road surfacing	19	21/09/06	14/10/06
RW2000	Divert the original road to the new road (E,W/B)	1	16/10/06	16/10/06
RW2010	Construct W/B, E/B Beam Barrier & Footpath	24	17/10/06	14/11/06
RW2500	Slip Rd: Excav & demolish exist road surface	12	17/10/06	31/10/06
RW3000	Slip Rd: U/G drainage & utilities	82	01/11/06	08/02/07
RW3500	Construct Slip Rd surfacing work	18	09/02/07	07/03/07
01RW0500	Construction of Car Park	50	21/09/06	21/11/06
RW3510	TTM Staging Preparation	15	26/08/06	12/09/06
RW3520	TMLG Meeting	1	13/09/06	13/09/06
RW3530	RMO/Roadwork Advice	10	14/09/06	25/09/06
Slope Remedial Works				
Remedial Work 6SW-D/C170				
SW3000	Remedial works to Slope No. 6SW-D/C170	57*	30/01/07	12/04/07
Remedial Work 6SW-D/FR286				
SW3500	Remedial works to Slope No. 6SW-D/FR286	167*	08/04/06	31/10/06
Remedial Work 6SW-D/F89				
SW4000	Remedial works to Slope No. 6SW-D/F89	100*	13/06/06	10/10/06
Remedial Work 6SW-D/FR83				
SW5000	Remedial works to Slope No. 6SW-D/FR83	80*	16/10/06	22/01/07
Remedial Work 6SW-D/F82				
SW5500	Remedial works to Slope No. 6SW-D/F82	120*	15/06/06	06/11/06
Remedial Work 6SW-D/R1				
SW6000	Remedial works to Slope No. 6SW-D/R1	87*	12/12/06	02/04/07
Section II - Landscaping Works				
0LW1000	Tree Transplant	200	06/02/06*	06/10/06
W1000	Landscaping Work	90	24/02/07	24/05/07



rt Date	21/12/05
ish Date	23/05/08
a Date	21/12/05
t Date	22/08/06 15:00

Early Bar
Progress Bar
Critical Activity

CS02

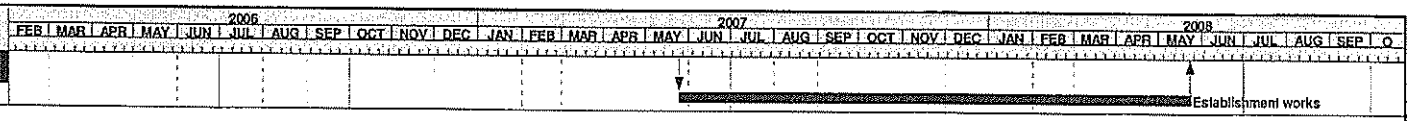
Sheet 4 of 5

Chun Wo Construction & Eng. Co. Ltd

Contract No. HY/2005/06
Castle Peak Road Improvment West of Tsing Lung Tau

Date	Revision	Checked	Approved
02/08/06	0		
21/08/06	1		

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
Section III - Establishment Period				
EP1000	Establishment works	365	25/05/07	23/05/08



Start Date 21/12/05
Finish Date 23/05/08
Data Date 21/12/05
Run Date 22/08/06 15:00

Early Bar
Progress Bar
Critical Activity

CSD2

Sheet 5 of 5

Chun Wo Construction & Eng. Co. Ltd

Contract No. HY/2005/06
Castle Peak Road Improvment West of Tsing Lung Tau

CSD Works Programme Rev 1

Date	Revision	Checked	Approved
02/08/06	0		
21/08/06	1		

Appendix B

Monitoring schedule for August 2007 and September 2007

Environmental Monitoring and Audit Schedule - August 2007

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

Aug-2007						
Sunday	**Monday**	**Tuesday**	**Wednesday**	**Thursday**	**Friday**	**Saturday**
			1 Site Inspection MW	2	3 MW	4
5	6 MW	7	8 MW	9	10 Site Inspection MW	11
12	13 MW	14	15 MW	16	17 Site Inspection MW	18
19	20 MW	21	22 MW	23	24 Site Inspection MW	25
26	27	28 MW	29	30 MW	31 Site Inspection	

Tentative Environmental Monitoring and Audit Schedule - September 2007

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

Sep-2007						
Sunday	**Monday**	**Tuesday**	**Wednesday**	**Thursday**	**Friday**	**Saturday**
						1 MW
2	3 MW	4	5	6 MW	7 Site Inspection	8 MW
9	10	11 MW	12	13 MW	14 Site Inspection	15 MW
16	17	18 MW	19	20 MW	21 Site Inspection	22 MW
23	24	25 MW	26	27 MW	28 Site Inspection	29 MW
30						

Appendix C

Calibration certificates of marine water monitoring equipment

Hong Kong
Productivity Council
香港生產力促進局

Environmental Management Division

CALIBRATION REPORT

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

Report No. : CR 000079
Page No. : 1 of 5
Issue Date : 17/07/2007

Received Date : 10/07/2007
Approved Signatory : Fung Kam Wing
Remarks :

Completion Date : 17/07/2007

Calibration Results:

Item : YSI Model 85-10 FT Handheld Salinity, Conductivity & Temperature Instrument

Serial No. : 99 G0526 AJ

Calibration Method : APHA 18e 2520 A & B

Date of Calibration : 10/07/2007

Results :

Salinity

Expected Reading (ppt)	Recorded Reading (ppt)
0	0
7.4	7.2
15	14.6
35	33.2
39.3	37.4

Approval Signatory:

Hong Kong
Productivity Council
香港生產力促進局

Environmental Management Division

CALIBRATION REPORT

Client : OVE ARUP & PARTNERS H.K. LTD.
Address : Level 5 Festival Walk,
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Report No. : CR 000079
Page No. : 2 of 5
Issue Date : 17/07/2007

Received Date : 10/07/2007
Approved Signatory : Fung Kam Wing
Remarks :

Completion Date : 17/07/2007

Calibration Results:

Item : YSI Model 85-10 FT Handheld Salinity, Conductivity & Temperature Instrument

Serial No. : 99 G0526 AJ

Calibration Method : In house method

Date of Calibration : 10/07/2007

Results :

Temperature

Expected Reading (°C)	Recorded Reading (°C)
10.0	11.0
20.0	20.9
30.0	31.0
40.0	41.1

Approval Signatory:

Hong Kong Head Office 香港總部
TST P.O. Box 99027 Hong Kong • HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong
Tel: (852) 2788 5678 • Fax: (852) 2788 5900 • Telex: 32842 HKPC HX
香港尖沙咀郵政信箱99027號 • 香港九龍達之路78號生產力大樓

Hong Kong
Productivity Council
香港生產力促進局

Environmental Management Division

CALIBRATION REPORT

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

Report No. : CR 000079
Page No. : 3 of 5
Issue Date : 17/07/2007

ceived Date : 10/07/2007 Completion Date : 17/07/2007
proved Signatory : Fung Kam Wing
marks :

alibration Results:

m : YSI Model 85-10 FT Handheld Salinity, Conductivity & Temperature Instrument

rial No. : 99 G0526 AJ

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

te of Calibration : 17/07/2007

sults: :

ssolved Oxygen

Expected Reading (mg/L)	Recorded Reading (mg/L)
2.80	3.39
4.15	4.65
6.50	7.04
7.80	7.96
8.70	8.67

Approval Signatory:

Hong Kong
Productivity Council
香港生產力促進局

Environmental Management Division

CALIBRATION REPORT

Client : OVE ARUP & PARTNERS H.K. LTD.
Address : Level 5 Festival Walk,
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Report No. : CR 000079
Page No. : 4 of 5
Issue Date : 17/07/2007

Received Date : 10/07/2007 Completion Date : 17/07/2007
Approved Signatory : Fung Kam Wing
Remarks :

Calibration Results:

Item : HACH 2100P Turbidimeter

Serial No. : 011100024354

Calibration Method : APHA 18e 2130 B

Date of Calibration : 12/07/2007

Results: :

Turbidity

Expected Reading (NTU)	Recorded Reading (NTU)
0	0.18
2	2.06
4	3.78
16	15.7
40	37.8
80	77.1

Approval Signatory:

Hong Kong
Productivity Council
香港生產力促進局

Environmental Management Division

CALIBRATION REPORT

Client : OVE ARUP & PARTNERS H.K. LTD.
Address : Level 5 Festival Walk,
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Report No. : CR 000079
Page No. : 5 of 5
Issue Date : 17/07/2007

Received Date : 10/07/2007
Completion Date : 17/07/2007
Approved Signatory : Fung Kam Wing
Remarks :

Calibration Results:

Item : HANNA instrument HI 1270 pH meter

Serial No. : S354547

Calibration Method : In house method

Date of Calibration : 17/07/2007

Results :

pH

Expected Reading (pH unit)	Recorded Reading (pH unit)
4.01	4.01
7.00	7.03
10.0	10.03

Approval Signatory:

Hong Kong Head Office 香港總部
TST P.O. Box 99027 Hong Kong • HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong
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香港尖沙咀郵政信箱99027號 • 香港九龍達之路78號生產力大樓

Appendix D

Marine water quality monitoring results

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
1	WWA1	S	MID-EBB	1-Aug-07			28.8	5.80	5.78		81.1	80.6	8.0	21.9	4.8	4.8		27.0	
2	WWA1	M	MID-EBB	1-Aug-07	15:29	6.90	28.6	5.60	5.58	5.69	78.8	78.5	8.0	26.0	4.0	3.9		27.0	
3	WWA1	B	MID-EBB	1-Aug-07			28.4	5.49	5.53	5.51	78.2	77.9	8.0	26.0	3.8	3.8	4.2	21.0	25.0
4	WWA2	S	MID-EBB	1-Aug-07			29.3	5.98	5.90		79.0	79.2	8.0	25.9	3.6	3.6		15.5	
5	WWA2	M	MID-EBB	1-Aug-07	15:14	6.60	28.7	5.76	5.71	5.84	77.9	78.5	8.0	26.0	4.0	4.0		14.0	
6	WWA2	B	MID-EBB	1-Aug-07			28.6	5.88	5.54	5.71	77.6	77.4	8.0	28.9	4.2	4.2	3.9	19.5	16.3
7	WWA3	S	MID-EBB	1-Aug-07			29.1	5.70	5.61		78.8	80.0	8.0	25.9	3.8	3.8		10.0	
8	WWA3	M	MID-EBB	1-Aug-07	15:00	6.40	29.2	5.52	5.50	5.58	79.4	79.6	8.0	26.6	3.5	3.6		13.0	
9	WWA3	B	MID-EBB	1-Aug-07			29.2	5.49	5.53	5.51	78.2	78.5	8.0	26.0	3.8	3.7	3.7	14.0	12.3
10	WRA1	S	MID-EBB	1-Aug-07			28.8	5.76	5.80		79.6	80.2	8.0	26.0	3.8	3.8		9.5	
11	WRA1	M	MID-EBB	1-Aug-07	15:43	34.30	28.1	5.50	5.52	5.65	78.9	79.0	8.0	27.9	3.5	3.6		8.0	
12	WRA1	B	MID-EBB	1-Aug-07			28.0	5.79	5.74	5.77	79.9	78.0	8.0	24.6	3.7	3.7	3.7	16.5	11.3
13	WRA2	S	MID-EBB	1-Aug-07			30.0	5.80	5.71		85.2	84.6	8.0	22.0	3.6	3.6		11.5	
14	WRA2	M	MID-EBB	1-Aug-07	15:58	33.50	29.4	5.64	5.59	5.69	81.0	80.9	8.0	24.0	4.1	4.1		12.0	
15	WRA2	B	MID-EBB	1-Aug-07			28.0	5.47	5.50	5.49	78.2	77.8	8.0	27.6	4.2	4.2	4.0	16.5	13.3
16	WRA3	S	MID-EBB	1-Aug-07			28.5	5.47	5.49		79.0	78.7	8.0	26.5	3.4	3.5		11.5	
17	WRA3	M	MID-EBB	1-Aug-07	16:15	31.20	28.5	5.62	5.58	5.54	79.5	79.2	8.0	24.0	3.6	3.2		16.0	
18	WRA3	B	MID-EBB	1-Aug-07			29.3	5.60	5.59	5.60	78.0	79.4	8.0	23.9	3.2	3.3	3.4	8.5	12.0
19	WWFCZ1	S	MID-EBB	1-Aug-07			29.1	5.79	5.69		81.0	79.2	8.0	26.2	5.0	4.9		11.5	
20	WWFCZ1	M	MID-EBB	1-Aug-07	16:57	41.60	28.6	5.58	5.54	5.65	78.0	79.0	8.0	28.4	3.9	3.8		9.5	
21	WWFCZ1	B	MID-EBB	1-Aug-07			28.6	5.56	5.49	5.53	77.2	78.1	8.0	29.0	4.0	4.1	4.3	9.5	10.2
22	WWFCZ2	S	MID-EBB	1-Aug-07			29.2	5.76	5.70		76.9	77.0	8.0	28.1	4.2	4.1		7.0	
23	WWFCZ2	M	MID-EBB	1-Aug-07	16:43	40.70	28.7	5.54	5.49	5.62	78.6	78.4	8.0	29.0	3.9	3.8		11.0	
24	WWFCZ2	B	MID-EBB	1-Aug-07			28.4	5.60	5.52	5.56	77.0	77.5	8.0	30.2	3.5	3.5	3.8	7.5	8.5
25	WFCZR1	S	MID-EBB	1-Aug-07			28.2	5.94	5.90		80.6	79.9	8.0	26.9	4.1	4.2		7.5	
26	WFCZR1	M	MID-EBB	1-Aug-07	17:12	40.20	29.0	5.76	5.70	5.83	78.0	77.5	8.0	27.0	4.0	3.9		9.5	
27	WFCZR1	B	MID-EBB	1-Aug-07			29.1	5.60	5.52	5.56	78.4	78.1	8.0	28.0	3.0	3.0	3.7	7.0	8.0
28	WFCZR2	S	MID-EBB	1-Aug-07			28.5	5.80	5.85		80.2	80.6	8.0	26.5	4.5	4.5		8.5	
29	WFCZR2	M	MID-EBB	1-Aug-07	16:28	40.30	28.0	5.76	5.72	5.78	79.2	78.0	8.0	22.6	4.0	3.9		9.5	
30	WFCZR2	B	MID-EBB	1-Aug-07			28.0	5.60	5.58	5.59	79.0	79.5	8.0	22.9	3.6	3.7	4.0	11.0	9.7
31	WWA1	S	MID-FLOOD	1-Aug-07			28.0	6.18	6.10		80.6	79.6	8.0	28.6	4.8	4.6		13.5	
32	WWA1	M	MID-FLOOD	1-Aug-07	9:27	7.20	28.0	6.22	6.20	6.18	78.8	78.4	8.0	29.2	4.1	4.3		13.5	
33	WWA1	B	MID-FLOOD	1-Aug-07			27.8	6.16	6.06	6.11	79.5	79.4	8.0	28.1	3.3	3.2	4.0	14.5	13.8
34	WWA2	S	MID-FLOOD	1-Aug-07			27.6	6.29	6.19		78.4	79.0	8.0	28.0	3.7	3.5		17.5	
35	WWA2	M	MID-FLOOD	1-Aug-07	9:13	6.80	27.2	6.09	6.12	6.17	80.9	82.0	8.0	29.4	4.1	4.2		12.5	
36	WWA2	B	MID-FLOOD	1-Aug-07			27.1	6.02	6.01	6.02	81.1	80.6	8.0	28.4	4.2	4.2	4.0	15.0	15.0
37	WWA3	S	MID-FLOOD	1-Aug-07			27.5	6.28	6.24		82.6	82.5	8.0	29.6	4.0	3.8		11.0	
38	WWA3	M	MID-FLOOD	1-Aug-07	9:00	6.70	27.4	6.09	6.04	6.16	80.0	79.0	8.0	30.2	3.6	3.5		12.0	
39	WWA3	B	MID-FLOOD	1-Aug-07			27.2	6.17	6.16	6.17	78.2	78.6	8.0	28.6	3.7	3.6	3.7	12.5	11.8
40	WRA1	S	MID-FLOOD	1-Aug-07			27.3	6.20	6.18		81.2	80.9	8.0	28.2	3.6	3.5		8.0	
41	WRA1	M	MID-FLOOD	1-Aug-07	9:44	35.10	27.0	6.09	6.15	6.16	79.6	79.9	8.0	29.5	3.7	3.7		9.0	
42	WRA1	B	MID-FLOOD	1-Aug-07			26.9	6.07	6.10	6.09	78.0	78.5	8.0	28.1	4.1	4.2	3.8	7.5	8.2
43	WRA2	S	MID-FLOOD	1-Aug-07			27.2	6.06	6.12		80.2	80.3	8.0	28.0	3.3	3.4		10.0	
44	WRA2	M	MID-FLOOD	1-Aug-07	9:59	33.80	27.0	6.03	6.00	6.05	81.2	80.9	8.0	29.2	4.0	4.2		10.5	
45	WRA2	B	MID-FLOOD	1-Aug-07			27.0	6.10	6.05	6.08	80.1	81.0	8.0	28.0	4.4	4.5	4.0	12.0	10.8

HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau – Environmental Monitoring & Audit Service
Marine Water Quality Impact Monitoring - August 2007

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
46	WRA3	S	MID-FLOOD	1-Aug-07			26.9	6.11	6.07		80.9	80.5	8.0	29.6	3.6	3.5		10.5	
47	WRA3	M	MID-FLOOD	1-Aug-07	10:14	32.70	27.1	6.02	6.12	6.08	79.6	79.2	8.0	29.3	3.7	3.7		16.5	
48	WRA3	B	MID-FLOOD	1-Aug-07			26.9	6.09	6.07	6.08	78.9	78.2	8.0	29.2	3.6	3.6	3.6	8.0	11.7
49	WWFCZ1	S	MID-FLOOD	1-Aug-07			26.9	7.03	6.80		90.1	90.8	8.0	29.9	4.3	4.3		9.5	
50	WWFCZ1	M	MID-FLOOD	1-Aug-07	16:57	42.90	26.9	6.50	6.49	6.71	97.2	96.8	8.0	30.0	3.6	3.5		16.5	
51	WWFCZ1	B	MID-FLOOD	1-Aug-07			26.9	6.60	6.59	6.60	97.0	95.5	8.0	27.0	3.3	3.4	3.7	16.0	14.0
52	WWFCZ2	S	MID-FLOOD	1-Aug-07			27.6	6.69	6.61		89.6	89.5	8.0	28.9	4.3	4.2		16.0	
53	WWFCZ2	M	MID-FLOOD	1-Aug-07	10:43	41.20	26.8	6.59	6.58	6.62	87.8	87.6	8.0	30.9	3.2	3.4		13.0	
54	WWFCZ2	B	MID-FLOOD	1-Aug-07			27.0	6.48	6.46	6.47	88.2	87.9	8.0	29.6	3.6	3.6	3.7	13.5	14.2
55	WFCZR1	S	MID-FLOOD	1-Aug-07			28.2	5.74	5.72		86.3	85.3	8.0	28.0	4.3	4.3		6.0	
56	WFCZR1	M	MID-FLOOD	1-Aug-07	17:08	41.90	27.6	5.80	5.76	5.76	93.9	94.2	8.0	28.0	3.2	3.2		11.5	
57	WFCZR1	B	MID-FLOOD	1-Aug-07			27.6	5.61	5.58	5.60	89.1	88.5	8.0	29.3	3.0	2.9	3.5	12.5	10.0
58	WFCZR2	S	MID-FLOOD	1-Aug-07			27.0	5.90	5.87		89.1	86.5	8.0	29.0	4.7	4.6		11.5	
59	WFCZR2	M	MID-FLOOD	1-Aug-07	10:28	41.50	27.3	5.75	5.71	5.81	86.5	86.1	8.0	29.2	4.3	4.2		14.5	
60	WFCZR2	B	MID-FLOOD	1-Aug-07			26.8	5.50	5.58	5.54	87.0	86.7	8.0	28.0	3.7	3.7	4.2	17.5	14.5
61	WWA1	S	MID-EBB	3-Aug-07			28.7	6.20	6.10		98.0	97.6	8.0	26.9	5.3	5.4		7.0	
62	WWA1	M	MID-EBB	3-Aug-07	16:29	6.80	28.8	6.66	6.65	6.40	105.0	105.3	8.0	26.2	5.7	5.5		10.5	
63	WWA1	B	MID-EBB	3-Aug-07			28.7	6.32	6.30	6.31	100.0	99.3	8.0	26.3	5.7	5.6	5.5	11.0	9.5
64	WWA2	S	MID-EBB	3-Aug-07			29.0	5.96	5.92		91.9	90.8	8.0	26.2	4.6	4.4		5.0	
65	WWA2	M	MID-EBB	3-Aug-07	16:14	6.50	29.0	5.78	5.68	5.84	90.0	89.6	8.0	25.0	6.0	5.8		6.5	
66	WWA2	B	MID-EBB	3-Aug-07			28.8	6.69	6.66	6.68	105.6	104.8	8.0	26.8	6.2	6.1	5.5	8.5	6.7
67	WWA3	S	MID-EBB	3-Aug-07			29.1	6.00	5.98		87.0	87.3	8.0	26.3	4.3	4.5		5.0	
68	WWA3	M	MID-EBB	3-Aug-07	16:00	6.20	28.8	6.06	6.03	6.02	93.8	93.0	8.0	26.9	6.1	6.0		7.0	
69	WWA3	B	MID-EBB	3-Aug-07			28.7	5.86	5.83	5.85	90.3	89.6	8.0	26.9	5.8	5.6	5.4	5.5	5.8
70	WRA1	S	MID-EBB	3-Aug-07			28.7	6.50	6.59		105.6	102.6	8.0	26.9	4.8	4.6		8.5	
71	WRA1	M	MID-EBB	3-Aug-07	16:45	33.20	29.4	6.30	6.25	6.41	100.8	100.5	8.0	24.8	4.8	4.3		8.5	
72	WRA1	B	MID-EBB	3-Aug-07			29.2	6.63	6.55	6.59	102.3	102.5	8.0	25.3	4.1	4.1	4.5	9.5	8.8
73	WRA2	S	MID-EBB	3-Aug-07			28.9	7.20	7.15		104.9	106.9	8.0	25.8	4.9	4.7		15.5	
74	WRA2	M	MID-EBB	3-Aug-07	16:57	31.90	29.3	6.59	6.46	6.85	102.6	100.8	8.0	25.9	5.6	5.6		16.0	
75	WRA2	B	MID-EBB	3-Aug-07			27.5	5.48	5.44	5.46	83.2	82.3	8.0	29.8	5.9	5.8	5.4	14.5	15.3
76	WRA3	S	MID-EBB	3-Aug-07			27.1	5.48	5.49		81.9	82.3	8.0	30.0	4.5	4.7		13.5	
77	WRA3	M	MID-EBB	3-Aug-07	17:08	30.70	29.3	7.16	7.09	6.31	98.0	97.2	8.0	24.8	4.3	4.4		10.5	
78	WRA3	B	MID-EBB	3-Aug-07			28.1	5.90	5.89	5.90	89.2	88.6	8.0	27.5	5.7	5.7	4.9	14.0	12.7
79	WWFCZ1	S	MID-EBB	3-Aug-07			28.1	6.20	6.29		90.6	89.6	8.0	27.5	5.5	5.6		15.0	
80	WWFCZ1	M	MID-EBB	3-Aug-07	17:45	39.50	27.3	6.10	6.25	6.21	89.1	87.6	8.0	29.4	5.4	5.4		14.5	
81	WWFCZ1	B	MID-EBB	3-Aug-07			27.9	6.08	6.07	6.08	85.0	84.4	8.0	28.0	5.5	5.4	5.5	14.5	14.7
82	WWFCZ2	S	MID-EBB	3-Aug-07			29.1	6.76	6.65		83.0	82.8	8.0	27.8	4.4	4.5		6.5	
83	WWFCZ2	M	MID-EBB	3-Aug-07	17:35	38.30	27.3	6.19	6.23	6.46	93.2	93.3	8.0	29.6	6.5	6.4		6.0	
84	WWFCZ2	B	MID-EBB	3-Aug-07			27.9	6.20	6.18	6.19	89.6	89.0	8.0	27.6	5.1	5.2	5.4	13.0	8.5
85	WFCZR1	S	MID-EBB	3-Aug-07			29.1	6.21	6.10		89.1	89.0	8.0	25.0	4.0	3.9		7.5	
86	WFCZR1	M	MID-EBB	3-Aug-07	17:58	39.20	28.6	6.30	6.28	6.22	92.0	91.8	8.0	27.6	5.9	5.4		13.0	
87	WFCZR1	B	MID-EBB	3-Aug-07			28.0	6.10	6.05	6.08	90.6	90.2	8.0	27.6	5.4	5.2	5.0	9.5	10.0
88	WFCZR2	S	MID-EBB	3-Aug-07			27.5	5.70	5.69		81.3	81.5	8.0	29.8	4.2	4.3		14.0	
89	WFCZR2	M	MID-EBB	3-Aug-07	17:21	39.50	29.0	5.50	5.48	5.59	78.1	79.0	8.0	24.9	4.8	4.7		11.0	

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averag Value
90	WFCZR2	B	MID-EBB	3-Aug-07			28.3	6.23	6.20	6.22	95.4	93.5	8.0	26.5	5.4	5.3	4.8	13.5	12.8
91	WWA1	S	MID-FLOOD	3-Aug-07			26.8	5.70	5.66		82.0	81.2	8.0	30.2	4.8	4.5		17.0	
92	WWA1	M	MID-FLOOD	3-Aug-07	10:10	7.10	27.0	5.49	5.43	5.58	81.0	82.3	8.0	29.6	5.2	5.3		15.0	
93	WWA1	B	MID-FLOOD	3-Aug-07			26.9	5.49	5.40	5.45	83.5	83.2	8.0	29.0	5.6	5.5	5.1	15.5	15.8
94	WWA2	S	MID-FLOOD	3-Aug-07			26.9	5.40	5.42		80.2	79.6	8.0	29.0	4.7	4.7		14.0	
95	WWA2	M	MID-FLOOD	3-Aug-07	9:47	6.60	26.7	5.48	5.50	5.45	83.3	82.0	8.0	30.0	5.0	4.5		8.5	
96	WWA2	B	MID-FLOOD	3-Aug-07			27.0	5.56	5.55	5.56	81.8	81.9	8.0	29.5	5.2	5.3	4.9	10.0	10.8
97	WWA3	S	MID-FLOOD	3-Aug-07			26.8	5.75	5.79		87.5	87.2	8.0	30.0	4.2	4.2		8.0	
98	WWA3	M	MID-FLOOD	3-Aug-07	9:30	6.40	27.0	5.60	5.20	5.59	83.2	83.9	8.0	29.3	5.4	5.4		8.0	
99	WWA3	B	MID-FLOOD	3-Aug-07			27.0	6.26	6.25	6.26	92.0	93.0	8.0	29.6	5.7	5.5	5.1	13.0	9.7
100	WRA1	S	MID-FLOOD	3-Aug-07			26.8	5.44	5.41		83.8	82.9	8.0	30.0	5.1	5.2		6.5	
101	WRA1	M	MID-FLOOD	3-Aug-07	10:24	34.80	26.7	5.60	5.58	5.51	81.0	81.2	8.0	29.8	5.3	5.2		7.0	
102	WRA1	B	MID-FLOOD	3-Aug-07			26.8	5.48	5.42	5.45	80.0	81.0	8.0	30.0	4.3	4.3	4.9	11.0	8.2
103	WRA2	S	MID-FLOOD	3-Aug-07			27.1	5.49	5.45		77.0	76.3	8.0	28.0	4.3	4.3		6.5	
104	WRA2	M	MID-FLOOD	3-Aug-07	10:37	32.70	27.2	5.89	5.82	5.66	86.3	86.0	8.0	28.0	5.0	5.1		8.5	
105	WRA2	B	MID-FLOOD	3-Aug-07			26.9	5.48	5.42	5.45	83.0	81.2	8.0	29.0	5.3	5.1	4.9	6.5	7.2
106	WRA3	S	MID-FLOOD	3-Aug-07			26.8	5.70	5.69		77.6	76.9	8.0	29.8	4.5	4.6		8.0	
107	WRA3	M	MID-FLOOD	3-Aug-07	10:52	31.50	26.8	5.43	5.45	5.57	81.2	80.5	8.0	29.9	4.4	4.4		10.0	
108	WRA3	B	MID-FLOOD	3-Aug-07			26.8	5.56	5.59	5.58	83.8	83.6	8.0	29.9	5.1	5.1	4.7	6.5	8.2
109	WWFCZ1	S	MID-FLOOD	3-Aug-07			26.9	5.60	5.58		81.0	80.6	8.0	29.3	5.3	5.4		16.5	
110	WWFCZ1	M	MID-FLOOD	3-Aug-07	11:31	40.60	26.8	5.60	5.62	5.60	84.2	84.0	8.0	29.5	5.6	5.6		18.0	
111	WWFCZ1	B	MID-FLOOD	3-Aug-07			27.1	5.86	5.90	5.88	88.5	88.2	8.0	29.9	4.7	4.8	5.2	18.5	17.7
112	WWFCZ2	S	MID-FLOOD	3-Aug-07			27.1	5.43	5.40		79.2	77.0	8.0	28.8	4.6	4.4		16.5	
113	WWFCZ2	M	MID-FLOOD	3-Aug-07	11:17	39.70	27.3	5.63	5.60	5.52	88.0	87.2	8.0	29.0	5.3	5.2		14.5	
114	WWFCZ2	B	MID-FLOOD	3-Aug-07			27.0	5.50	5.48	5.49	81.9	80.4	8.0	29.9	5.0	5.2	4.9	17.0	16.0
115	WFCZR1	S	MID-FLOOD	3-Aug-07			27.2	5.58	5.60		79.3	78.0	8.0	29.3	4.2	4.1		10.0	
116	WFCZR1	M	MID-FLOOD	3-Aug-07	11:47	40.50	26.9	5.78	5.70	5.67	85.8	85.0	8.0	29.8	5.0	4.9		14.5	
117	WFCZR1	B	MID-FLOOD	3-Aug-07			26.7	5.56	5.52	5.54	85.0	83.8	8.0	30.6	5.2	5.1	4.7	22.0	15.5
118	WFCZR2	S	MID-FLOOD	3-Aug-07			27.0	5.78	5.71		82.2	80.6	8.0	29.3	4.1	4.3		14.5	
119	WFCZR2	M	MID-FLOOD	3-Aug-07	11:03	40.30	27.0	5.60	5.58	5.67	90.0	89.0	8.0	29.5	4.4	4.5		13.5	
120	WFCZR2	B	MID-FLOOD	3-Aug-07			26.9	5.85	5.82	5.84	88.9	88.5	8.0	29.0	5.1	5.1	4.6	18.5	15.5
121	WWA1	S	MID-EBB	6-Aug-07			28.6	5.99	5.95		89.2	89.6	8.1	23.9	4.6	4.6		9.5	
122	WWA1	M	MID-EBB	6-Aug-07	16:27	6.70	28.5	5.69	5.71	5.84	89.0	90.2	8.1	25.2	3.9	3.9		12.0	
123	WWA1	B	MID-EBB	6-Aug-07			28.6	5.80	5.78	5.79	91.1	90.8	8.1	25.0	3.5	3.6	4.1	8.5	10.0
124	WWA2	S	MID-EBB	6-Aug-07			28.6	6.23	6.20		90.9	90.3	8.1	25.2	3.3	3.4		7.5	
125	WWA2	M	MID-EBB	6-Aug-07	16:13	6.50	28.6	6.02	5.98	6.11	89.2	88.8	8.1	25.0	3.8	3.7		14.0	
126	WWA2	B	MID-EBB	6-Aug-07			28.5	5.90	5.86	5.88	87.2	86.9	8.1	24.9	4.2	4.3	3.8	11.5	11.0
127	WWA3	S	MID-EBB	6-Aug-07			28.7	6.15	6.18		90.5	90.1	8.1	23.0	4.0	3.9		8.5	
128	WWA3	M	MID-EBB	6-Aug-07	16:00	6.30	28.5	6.10	6.03	6.12	90.0	89.1	8.1	24.8	3.0	3.3		9.5	
129	WWA3	B	MID-EBB	6-Aug-07			28.5	5.98	5.90	5.94	88.2	86.8	8.1	24.9	4.2	4.3	3.8	10.5	9.5
130	WRA1	S	MID-EBB	6-Aug-07			28.8	5.90	5.87		86.7	86.2	8.1	23.6	4.7	4.9		8.0	
131	WRA1	M	MID-EBB	6-Aug-07	16:43	34.40	28.5	5.96	5.94	5.92	87.6	87.5	8.1	25.2	4.7	4.6		8.5	
132	WRA1	B	MID-EBB	6-Aug-07			28.4	5.80	5.82	5.81	88.0	87.6	8.1	25.2	4.0	3.8	4.4	7.5	8.0
133	WRA2	S	MID-EBB	6-Aug-07			28.7	5.79	5.76		87.2	86.9	8.1	23.0	3.1	3.2		8.5	

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Average Value
134	WRA2	M	MID-EBB	6-Aug-07	16:58	32.70	28.5	5.80	5.75	5.78	86.0	85.8	8.1	25.9	4.0	4.0		10.0	
135	WRA2	B	MID-EBB	6-Aug-07			28.2	5.82	5.78	5.80	87.7	87.4	8.1	26.3	3.6	3.6	3.6	8.5	9.0
136	WRA3	S	MID-EBB	6-Aug-07			28.8	5.60	5.70		87.0	86.7	8.1	24.5	3.1	3.0		19.5	
137	WRA3	M	MID-EBB	6-Aug-07	17:13	31.60	28.5	5.87	5.82	5.75	85.6	85.2	8.1	25.5	3.2	3.2		9.5	
138	WRA3	B	MID-EBB	6-Aug-07			28.3	5.88	5.85	5.87	84.4	84.9	8.1	25.8	3.3	3.6	3.2	15.5	14.8
139	WWFCZ1	S	MID-EBB	6-Aug-07			28.8	5.79	5.76		83.3	82.6	8.1	25.2	3.1	3.2		11.5	
140	WWFCZ1	M	MID-EBB	6-Aug-07	17:58	39.90	28.1	5.84	5.82	5.80	83.0	82.9	8.1	25.9	2.8	2.8		9.0	
141	WWFCZ1	B	MID-EBB	6-Aug-07			27.6	5.79	5.75	5.77	83.2	84.0	8.1	27.6	3.2	3.2	3.0	10.5	10.3
142	WWFCZ2	S	MID-EBB	6-Aug-07			28.5	5.86	5.84		85.0	84.0	8.1	24.3	3.2	3.2		7.5	
143	WWFCZ2	M	MID-EBB	6-Aug-07	17:44	38.70	27.9	5.76	5.72	5.80	87.0	86.3	8.1	26.9	3.0	2.9		7.5	
144	WWFCZ2	B	MID-EBB	6-Aug-07			28.2	5.60	5.59	5.60	84.6	84.3	8.1	25.2	2.8	2.9	3.0	12.5	9.2
145	WFCZR1	S	MID-EBB	6-Aug-07			28.1	5.76	5.70		84.4	84.2	8.1	23.8	3.2	3.2		10.0	
146	WFCZR1	M	MID-EBB	6-Aug-07	18:10	40.50	28.1	5.82	5.79	5.77	83.6	83.0	8.1	25.3	3.2	3.2		11.5	
147	WFCZR1	B	MID-EBB	6-Aug-07			27.6	5.59	5.52	5.56	85.0	84.5	8.1	26.9	3.0	2.9	3.1	8.0	9.8
148	WFCZR2	S	MID-EBB	6-Aug-07			28.9	5.99	5.92		83.8	84.0	8.1	23.8	3.2	3.3		6.5	
149	WFCZR2	M	MID-EBB	6-Aug-07	17:28	40.60	28.5	5.83	5.70	5.86	85.0	84.8	8.1	25.6	3.2	3.2		8.5	
150	WFCZR2	B	MID-EBB	6-Aug-07			28.0	5.68	5.59	5.64	87.0	86.0	8.1	26.9	2.8	2.9	3.1	10.0	8.3
151	WWA1	S	MID-FLOOD	6-Aug-07			28.3	5.82	5.79		79.6	79.2	8.1	27.1	4.9	4.7		6.5	
152	WWA1	M	MID-FLOOD	6-Aug-07	12:27	6.90	28.0	5.70	5.68	5.75	76.9	77.6	8.1	28.0	3.6	3.6		11.5	
153	WWA1	B	MID-FLOOD	6-Aug-07			27.9	5.61	5.58	5.60	78.0	77.8	8.1	28.3	3.9	3.9	4.1	8.0	8.7
154	WWA2	S	MID-FLOOD	6-Aug-07			28.1	5.79	5.77		79.2	79.0	8.1	27.3	3.2	3.2		9.0	
155	WWA2	M	MID-FLOOD	6-Aug-07	12:13	6.80	28.0	5.60	5.57	5.68	79.9	79.5	8.1	28.6	4.1	4.1		10.0	
156	WWA2	B	MID-FLOOD	6-Aug-07			28.1	5.61	5.58	5.60	78.0	78.5	8.1	28.1	4.1	4.0	3.8	7.0	8.7
157	WWA3	S	MID-FLOOD	6-Aug-07			28.3	5.71	5.69		79.9	79.4	8.1	27.0	2.9	2.9		9.0	
158	WWA3	M	MID-FLOOD	6-Aug-07	12:00	6.50	28.0	5.50	5.48	5.60	78.2	77.9	8.1	28.3	3.0	3.1		12.0	
159	WWA3	B	MID-FLOOD	6-Aug-07			28.0	5.58	5.56	5.57	77.5	77.9	8.1	28.5	4.0	4.0	3.3	8.0	9.7
160	WRA1	S	MID-FLOOD	6-Aug-07			28.0	5.80	5.76		78.9	79.5	8.1	27.4	4.9	4.8		12.0	
161	WRA1	M	MID-FLOOD	6-Aug-07	12:53	34.90	27.6	5.59	5.54	5.67	79.4	79.1	8.1	28.1	3.6	3.6		8.0	
162	WRA1	B	MID-FLOOD	6-Aug-07			27.5	5.60	5.59	5.60	79.0	78.6	8.1	26.9	3.8	3.8	4.1	10.0	10.0
163	WRA2	S	MID-FLOOD	6-Aug-07			28.1	5.76	5.69		80.6	80.2	8.1	27.4	3.0	3.1		7.0	
164	WRA2	M	MID-FLOOD	6-Aug-07	13:09	33.80	28.0	5.62	5.58	5.66	79.9	79.0	8.1	28.9	4.1	4.1		11.0	
165	WRA2	B	MID-FLOOD	6-Aug-07			27.6	5.49	5.45	5.47	78.0	78.5	8.1	22.5	3.5	3.5	3.5	7.0	8.3
166	WRA3	S	MID-FLOOD	6-Aug-07			28.2	5.62	5.61		78.8	78.2	8.1	27.0	2.8	2.9		9.0	
167	WRA3	M	MID-FLOOD	6-Aug-07	13:22	32.70	27.6	5.46	5.40	5.52	77.9	78.6	8.1	28.3	3.1	3.1		9.0	
168	WRA3	B	MID-FLOOD	6-Aug-07			27.5	5.58	5.54	5.56	79.0	78.2	8.1	28.0	3.0	3.1	3.0	6.5	8.2
169	WWFCZ1	S	MID-FLOOD	6-Aug-07			28.1	5.80	5.76		81.6	80.9	8.1	27.0	2.7	2.8		8.0	
170	WWFCZ1	M	MID-FLOOD	6-Aug-07	14:06	41.30	27.4	5.60	5.58	5.69	79.6	79.5	8.1	28.0	3.2	3.2		13.5	
171	WWFCZ1	B	MID-FLOOD	6-Aug-07			27.2	5.72	5.69	5.71	81.0	80.5	8.1	29.0	3.8	3.8	3.3	21.5	14.3
172	WWFCZ2	S	MID-FLOOD	6-Aug-07			28.6	5.58	5.64		79.6	79.0	8.1	27.4	3.2	3.3		8.0	
173	WWFCZ2	M	MID-FLOOD	6-Aug-07	13:53	39.50	28.0	5.61	5.70	5.63	78.0	78.2	8.1	28.1	3.9	3.9		10.5	
174	WWFCZ2	B	MID-FLOOD	6-Aug-07			27.6	5.81	5.76	5.79	77.4	77.1	8.1	27.6	3.5	3.5	3.5	16.0	11.5
175	WFCZR1	S	MID-FLOOD	6-Aug-07			28.7	5.49	5.50		82.5	82.9	8.1	26.0	3.8	3.7		8.5	
176	WFCZR1	M	MID-FLOOD	6-Aug-07	14:20	42.60	28.0	5.60	5.58	5.54	81.6	80.9	8.1	27.0	3.5	3.4		13.0	
177	WFCZR1	B	MID-FLOOD	6-Aug-07			28.1	5.60	5.55	5.58	82.0	82.5	8.1	26.9	2.9	2.8	3.4	11.0	10.8

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
178	WFCZR2	S	MID-FLOOD	6-Aug-07			28.9	5.71	5.68		78.4	78.1	8.1	27.2	3.1	3.0		14.0	
179	WFCZR2	M	MID-FLOOD	6-Aug-07	13:38	41.20	28.5	5.59	5.56	5.64	76.9	76.5	8.1	28.6	4.1	4.0		13.5	
180	WFCZR2	B	MID-FLOOD	6-Aug-07			28.1	5.63	5.60	5.62	77.9	77.4	8.1	26.0	3.8	3.8	3.6	18.5	15.3
181	WWA1	S	MID-EBB	8-Aug-07			28.7	5.87	5.84		88.5	87.6	8.0	24.1	4.4	4.5		10.5	
182	WWA1	M	MID-EBB	8-Aug-07	9:27	6.50	28.6	5.75	5.73	5.80	88.2	86.9	8.0	25.3	4.3	4.2		12.0	
183	WWA1	B	MID-EBB	8-Aug-07			28.6	5.79	5.72	5.76	90.1	87.5	8.0	26.1	5.5	5.3	4.7	16.0	12.8
184	WWA2	S	MID-EBB	8-Aug-07			28.8	6.01	5.95		87.2	86.3	8.0	24.9	4.6	4.4		9.5	
185	WWA2	M	MID-EBB	8-Aug-07	9:13	6.30	28.7	6.12	6.05	6.04	87.9	85.4	8.0	24.2	4.1	4.3		8.5	
186	WWA2	B	MID-EBB	8-Aug-07			28.6	5.83	5.81	5.82	86.1	85.2	8.0	24.3	3.9	3.8	4.2	10.0	9.3
187	WWA3	S	MID-EBB	8-Aug-07			28.8	5.74	5.69		84.9	83.1	8.0	23.7	4.2	4.3		16.5	
188	WWA3	M	MID-EBB	8-Aug-07	9:00	6.20	28.7	6.02	6.00	5.86	87.6	86.3	8.0	23.5	3.9	3.8		9.0	
189	WWA3	B	MID-EBB	8-Aug-07			28.6	5.86	5.74	5.80	87.1	86.2	8.0	23.7	3.2	3.1	3.7	8.5	11.3
190	WRA1	S	MID-EBB	8-Aug-07			28.7	5.95	5.87		85.3	84.6	8.0	24.1	4.6	4.9		8.0	
191	WRA1	M	MID-EBB	8-Aug-07	9:40	33.70	28.6	5.93	5.86	5.90	86.9	85.4	8.0	25.3	4.8	4.6		8.0	
192	WRA1	B	MID-EBB	8-Aug-07			28.6	5.74	5.71	5.73	87.2	86.3	8.0	24.9	4.2	4.2	4.5	8.0	8.0
193	WRA2	S	MID-EBB	8-Aug-07			28.7	5.77	5.73		86.6	85.4	8.0	24.2	3.3	3.2		10.5	
194	WRA2	M	MID-EBB	8-Aug-07	9:55	31.60	28.7	5.79	5.65	5.74	87.2	86.5	8.0	24.7	3.3	3.3		7.5	
195	WRA2	B	MID-EBB	8-Aug-07			28.5	5.76	5.72	5.74	86.4	86.2	8.0	25.3	4.1	4.1	3.5	7.5	8.5
196	WRA3	S	MID-EBB	8-Aug-07			28.6	5.52	5.49		89.5	88.3	8.0	25.7	3.6	3.6		8.5	
197	WRA3	M	MID-EBB	8-Aug-07	10:10	30.50	28.4	5.59	5.53	5.53	84.9	84.1	8.0	24.6	3.9	3.9		13.5	
198	WRA3	B	MID-EBB	8-Aug-07			28.3	5.62	5.57	5.60	85.5	84.6	8.0	24.1	3.5	3.6	3.7	8.5	10.2
199	WWFCZ1	S	MID-EBB	8-Aug-07			28.9	5.68	5.65		84.5	83.6	8.0	25.1	3.5	3.6		11.5	
200	WWFCZ1	M	MID-EBB	8-Aug-07	10:59	38.50	28.6	5.94	5.87	5.79	84.9	83.7	8.0	24.8	3.1	3.1		8.0	
201	WWFCZ1	B	MID-EBB	8-Aug-07			28.5	5.73	5.71	5.72	83.5	82.7	8.0	25.6	3.3	3.1	3.3	9.5	9.7
202	WWFCZ2	S	MID-EBB	8-Aug-07			28.8	5.88	5.75		84.4	83.2	8.0	24.9	3.5	3.6		11.0	
203	WWFCZ2	M	MID-EBB	8-Aug-07	10:47	37.70	28.7	5.63	5.59	5.71	86.1	85.7	8.0	25.7	3.1	3.3		7.0	
204	WWFCZ2	B	MID-EBB	8-Aug-07			28.5	5.62	5.57	5.60	85.9	84.2	8.0	26.3	3.0	2.5	3.2	10.0	9.3
205	WFCZR1	S	MID-EBB	8-Aug-07			28.7	5.48	5.31		83.1	82.6	8.0	24.1	3.0	2.9		9.5	
206	WFCZR1	M	MID-EBB	8-Aug-07	11:13	39.60	28.6	5.69	5.65	5.53	85.4	83.1	8.0	25.7	2.1	2.1		12.5	
207	WFCZR1	B	MID-EBB	8-Aug-07			28.5	5.57	5.41	5.49	84.9	83.2	8.0	25.2	3.2	3.3	2.8	9.5	10.5
208	WFCZR2	S	MID-EBB	8-Aug-07			28.7	5.86	5.77		84.5	83.6	8.0	23.6	3.1	3.1		9.0	
209	WFCZR2	M	MID-EBB	8-Aug-07	10:25	38.70	28.6	5.92	5.87	5.86	82.9	81.3	8.0	24.3	3.5	3.5		9.0	
210	WFCZR2	B	MID-EBB	8-Aug-07			28.6	5.71	5.63	5.67	86.6	85.4	8.0	25.7	3.6	3.6	3.4	8.0	8.7
211	WWA1	S	MID-FLOOD	8-Aug-07			28.5	5.76	5.73		87.3	85.6	8.0	25.1	4.8	4.6		8.0	
212	WWA1	M	MID-FLOOD	8-Aug-07	16:28	6.70	28.4	5.85	5.81	5.79	84.9	83.1	8.0	24.2	4.5	4.5		10.0	
213	WWA1	B	MID-FLOOD	8-Aug-07			28.4	5.94	5.82	5.88	87.6	86.5	8.0	25.5	5.1	5.1	4.8	9.5	9.2
214	WWA2	S	MID-FLOOD	8-Aug-07			28.6	5.75	5.71		88.5	86.3	8.0	23.7	4.1	4.2		10.0	
215	WWA2	M	MID-FLOOD	8-Aug-07	16:14	6.50	28.5	6.01	5.97	5.86	87.4	83.9	8.0	23.9	4.3	4.2		9.5	
216	WWA2	B	MID-FLOOD	8-Aug-07			28.6	5.83	5.76	5.80	85.1	84.6	8.0	24.2	3.7	3.9	4.1	11.5	10.3
217	WWA3	S	MID-FLOOD	8-Aug-07			28.7	5.84	5.74		82.9	81.3	8.0	24.7	4.0	4.2		7.5	
218	WWA3	M	MID-FLOOD	8-Aug-07	16:00	6.40	28.6	5.92	5.87	5.84	85.6	84.7	8.0	24.9	5.0	4.9		9.5	
219	WWA3	B	MID-FLOOD	8-Aug-07			28.6	5.92	5.87	5.90	86.1	85.3	8.0	22.8	3.6	3.9	4.3	8.5	8.5
220	WRA1	S	MID-FLOOD	8-Aug-07			28.6	5.57	5.48		84.2	83.9	8.0	24.4	4.7	4.6		8.0	
221	WRA1	M	MID-FLOOD	8-Aug-07	16:47	34.20	28.6	5.76	5.61	5.61	85.7	84.8	8.0	25.7	5.0	4.9		10.5	

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
222	WRA1	B	MID-FLOOD	8-Aug-07			28.5	5.54	5.41	5.48	86.1	85.4	8.0	23.6	4.3	4.3	4.6	18.5	12.3
223	WRA2	S	MID-FLOOD	8-Aug-07			28.7	5.28	5.36		85.9	84.3	8.0	23.9	4.0	3.9		14.5	
224	WRA2	M	MID-FLOOD	8-Aug-07	16:59	32.90	28.6	5.57	5.41	5.41	83.5	82.6	8.0	23.1	4.0	4.1		17.0	
225	WRA2	B	MID-FLOOD	8-Aug-07			28.6	5.65	5.63	5.64	85.9	84.2	8.0	24.2	4.2	4.3	4.1	7.5	13.0
226	WRA3	S	MID-FLOOD	8-Aug-07			28.6	5.46	5.45		87.6	86.3	8.0	26.5	3.7	3.5		9.0	
227	WRA3	M	MID-FLOOD	8-Aug-07	17:14	31.60	28.5	5.29	5.16	5.35	84.2	83.1	8.0	23.9	4.0	3.3		6.5	
228	WRA3	B	MID-FLOOD	8-Aug-07			28.5	5.44	5.57	5.51	84.2	82.9	8.0	24.7	3.3	3.5	3.5	9.5	8.3
229	WWFCZ1	S	MID-FLOOD	8-Aug-07			28.7	5.72	5.69		85.7	84.6	8.0	24.6	3.6	3.6		11.5	
230	WWFCZ1	M	MID-FLOOD	8-Aug-07	17:58	39.30	28.6	5.83	5.71	5.74	83.2	82.7	8.0	24.3	3.2	3.2		11.0	
231	WWFCZ1	B	MID-FLOOD	8-Aug-07			28.6	5.65	5.61	5.63	84.9	83.5	8.0	25.7	3.1	3.2	3.3	9.0	10.5
232	WWFCZ2	S	MID-FLOOD	8-Aug-07			28.6	5.92	5.88		82.6	81.7	8.0	23.8	3.0	2.9		11.5	
233	WWFCZ2	M	MID-FLOOD	8-Aug-07	17:45	38.60	28.5	5.54	5.37	5.68	85.9	84.3	8.0	23.1	2.7	2.5		11.5	
234	WWFCZ2	B	MID-FLOOD	8-Aug-07			28.5	5.58	5.41	5.50	86.7	86.5	8.0	22.9	3.0	2.9	2.8	14.5	12.5
235	WFCZR1	S	MID-FLOOD	8-Aug-07			28.6	5.59	5.42		85.7	84.9	8.0	23.2	2.7	2.5		7.5	
236	WFCZR1	M	MID-FLOOD	8-Aug-07	18:12	40.50	28.6	5.65	5.67	5.58	83.6	82.7	8.0	24.7	2.6	2.6		15.5	
237	WFCZR1	B	MID-FLOOD	8-Aug-07			28.5	5.58	5.42	5.50	83.9	82.7	8.0	23.9	3.1	3.1	2.8	9.0	10.7
238	WFCZR2	S	MID-FLOOD	8-Aug-07			28.7	5.91	5.86		83.6	82.9	8.0	22.7	3.2	3.2		9.0	
239	WFCZR2	M	MID-FLOOD	8-Aug-07	17:28	40.30	28.5	5.76	5.71	5.81	81.7	80.5	8.0	23.1	4.0	3.9		12.0	
240	WFCZR2	B	MID-FLOOD	8-Aug-07			28.5	5.65	5.42	5.54	85.4	83.2	8.0	24.2	3.5	3.2	3.5	7.0	9.3
241	WWA1	S	MID-EBB	10-Aug-07			27.3	5.70	5.62		80.2	79.6	8.1	24.7	4.4	4.2		11.5	
242	WWA1	M	MID-EBB	10-Aug-07	12:27	6.70	27.0	5.74	5.71	5.69	78.4	78.2	8.1	25.2	4.1	4.2		8.0	
243	WWA1	B	MID-EBB	10-Aug-07			27.0	5.62	5.59	5.61	77.9	77.4	8.1	25.8	5.0	5.1	4.5	8.0	9.2
244	WWA2	S	MID-EBB	10-Aug-07			27.1	5.75	5.72		81.2	81.0	8.1	24.3	4.5	4.5		8.0	
245	WWA2	M	MID-EBB	10-Aug-07	12:13	6.40	27.0	5.60	5.58	5.66	80.2	80.0	8.1	24.7	4.6	4.3		6.0	
246	WWA2	B	MID-EBB	10-Aug-07			27.1	5.46	5.42	5.44	79.6	79.4	8.1	25.1	4.4	4.4	4.5	7.0	7.0
247	WWA3	S	MID-EBB	10-Aug-07			27.4	5.76	5.72		78.1	78.7	8.1	24.6	5.1	5.1		7.0	
248	WWA3	M	MID-EBB	10-Aug-07	12:00	6.30	27.2	5.61	5.59	5.67	79.9	80.5	8.1	24.3	5.2	5.4		9.5	
249	WWA3	B	MID-EBB	10-Aug-07			27.2	5.46	5.42	5.44	78.2	77.7	8.1	25.6	6.0	5.9	5.4	5.5	7.3
250	WRA1	S	MID-EBB	10-Aug-07			27.3	5.73	5.67		78.2	78.5	8.1	24.7	4.7	4.0		7.0	
251	WRA1	M	MID-EBB	10-Aug-07	12:43	34.20	27.1	5.68	5.61	5.67	79.1	78.8	8.1	24.2	3.9	3.6		6.5	
252	WRA1	B	MID-EBB	10-Aug-07			26.5	5.50	5.48	5.49	77.0	76.5	8.1	25.8	3.6	3.5	3.9	5.5	6.3
253	WRA2	S	MID-EBB	10-Aug-07			27.5	5.70	5.67		79.4	79.6	8.1	24.1	4.2	4.3		7.0	
254	WRA2	M	MID-EBB	10-Aug-07	12:58	33.10	27.0	5.49	5.43	5.57	77.3	77.4	8.1	25.3	4.4	4.5		9.0	
255	WRA2	B	MID-EBB	10-Aug-07			26.6	5.50	5.52	5.51	76.9	77.0	8.1	25.4	4.5	4.7	4.4	5.5	7.2
256	WRA3	S	MID-EBB	10-Aug-07			27.2	5.71	5.67		78.6	78.5	8.1	24.6	3.2	3.4		7.0	
257	WRA3	M	MID-EBB	10-Aug-07	13:09	30.70	26.8	5.69	5.65	5.68	79.2	79.1	8.1	25.9	3.5	3.3		7.0	
258	WRA3	B	MID-EBB	10-Aug-07			26.4	5.56	5.52	5.54	77.8	77.6	8.1	26.1	4.1	4.1	3.6	10.5	8.2
259	WWFCZ1	S	MID-EBB	10-Aug-07			27.7	5.91	5.88		79.6	79.2	8.1	23.9	4.0	3.9		14.0	
260	WWFCZ1	M	MID-EBB	10-Aug-07	13:47	39.70	27.2	5.72	5.69	5.80	80.2	80.1	8.1	24.7	4.2	4.3		11.0	
261	WWFCZ1	B	MID-EBB	10-Aug-07			26.7	5.58	5.52	5.55	79.0	78.5	8.1	25.8	4.5	4.6	4.2	8.5	11.2
262	WWFCZ2	S	MID-EBB	10-Aug-07			27.5	5.87	5.81		78.2	78.7	8.1	26.6	3.0	2.9		8.0	
263	WWFCZ2	M	MID-EBB	10-Aug-07	13:36	38.60	27.1	5.76	5.75	5.80	77.9	78.3	8.1	25.8	3.0	2.7		7.0	
264	WWFCZ2	B	MID-EBB	10-Aug-07			26.6	5.62	5.61	5.62	76.9	77.4	8.1	26.6	3.1	3.2	3.0	11.0	8.7
265	WFCZR1	S	MID-EBB	10-Aug-07			27.4	5.73	5.70		79.4	79.1	8.1	24.8	4.0	3.8		6.0	

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Average Value
266	WFCZR1	M	MID-EBB	10-Aug-07	13:59	39.20	26.9	5.49	5.53	5.61	78.0	78.5	8.1	25.5	3.5	3.3		11.0	
267	WFCZR1	B	MID-EBB	10-Aug-07			26.5	5.48	5.44	5.46	78.3	78.7	8.1	26.1	4.0	4.1	3.8	6.0	7.7
268	WFCZR2	S	MID-EBB	10-Aug-07			27.3	5.39	5.44		76.3	76.5	8.1	24.4	4.2	4.2		8.5	
269	WFCZR2	M	MID-EBB	10-Aug-07	13:24	40.30	26.7	5.63	5.62	5.52	77.1	77.3	8.1	26.0	4.0	3.9		6.5	
270	WFCZR2	B	MID-EBB	10-Aug-07			26.2	5.56	5.54	5.55	76.9	77.4	8.1	25.8	3.2	3.3	3.8	9.0	8.0
271	WWA1	S	MID-FLOOD	10-Aug-07			27.7	5.82	5.79		79.6	79.2	8.1	24.5	4.5	4.6		6.0	
272	WWA1	M	MID-FLOOD	10-Aug-07	7:25	6.90	27.5	5.63	5.58	5.71	78.2	77.6	8.1	25.6	4.5	4.4		10.5	
273	WWA1	B	MID-FLOOD	10-Aug-07			27.4	5.49	5.44	5.47	77.9	78.4	8.1	25.7	4.2	4.3	4.4	6.5	7.7
274	WWA2	S	MID-FLOOD	10-Aug-07			27.1	5.76	5.74		79.8	80.2	8.1	24.8	4.4	4.5		7.0	
275	WWA2	M	MID-FLOOD	10-Aug-07	7:13	6.60	26.8	5.60	5.58	5.67	78.6	78.4	8.1	25.9	4.6	4.7		9.0	
276	WWA2	B	MID-FLOOD	10-Aug-07			26.8	5.49	5.45	5.47	75.8	75.9	8.1	25.9	4.2	4.2	4.4	11.0	9.0
277	WWA3	S	MID-FLOOD	10-Aug-07			27.2	5.83	5.80		79.5	79.2	8.1	24.5	3.9	3.8		10.0	
278	WWA3	M	MID-FLOOD	10-Aug-07	7:00	6.50	27.0	5.75	5.70	5.77	78.4	78.1	8.1	25.6	3.2	3.4		7.5	
279	WWA3	B	MID-FLOOD	10-Aug-07			27.0	5.60	5.58	5.59	78.8	78.6	8.1	26.3	4.0	3.9	3.7	13.0	10.2
280	WRA1	S	MID-FLOOD	10-Aug-07			27.7	5.99	5.92		80.6	80.3	8.1	26.7	4.9	4.7		10.5	
281	WRA1	M	MID-FLOOD	10-Aug-07	7:40	34.70	27.5	5.81	5.78	5.88	81.1	80.9	8.1	25.8	4.7	4.4		12.0	
282	WRA1	B	MID-FLOOD	10-Aug-07			27.1	5.60	5.55	5.58	79.4	79.1	8.1	25.7	4.4	4.6	4.6	10.0	10.8
283	WRA2	S	MID-FLOOD	10-Aug-07			27.6	5.81	5.76		79.4	79.0	8.1	26.0	4.1	4.1		8.0	
284	WRA2	M	MID-FLOOD	10-Aug-07	7:54	33.60	27.2	5.64	5.60	5.70	77.8	78.4	8.1	25.1	4.2	4.3		9.0	
285	WRA2	B	MID-FLOOD	10-Aug-07			26.6	5.58	5.54	5.56	79.6	79.2	8.1	24.6	4.0	3.8	4.1	10.5	9.2
286	WRA3	S	MID-FLOOD	10-Aug-07			27.9	5.76	5.74		80.6	80.2	8.1	25.2	3.8	3.7		11.5	
287	WRA3	M	MID-FLOOD	10-Aug-07	8:07	31.90	27.1	5.60	5.57	5.67	79.7	79.2	8.1	24.9	4.0	3.9		11.0	
288	WRA3	B	MID-FLOOD	10-Aug-07			26.4	5.48	5.45	5.47	78.6	78.4	8.1	26.0	3.6	3.5	3.7	11.5	11.3
289	WWFCZ1	S	MID-FLOOD	10-Aug-07			27.8	5.77	5.68		81.2	81.6	8.1	25.4	3.4	3.6		12.5	
290	WWFCZ1	M	MID-FLOOD	10-Aug-07	8:50	41.20	27.4	5.58	5.54	5.64	78.8	78.2	8.1	26.2	4.0	3.9		10.0	
291	WWFCZ1	B	MID-FLOOD	10-Aug-07			26.3	5.71	5.63	5.67	77.0	77.7	8.1	24.9	3.3	3.4	3.6	12.5	11.7
292	WWFCZ2	S	MID-FLOOD	10-Aug-07			27.6	5.76	5.70		78.9	78.2	8.1	26.3	3.7	3.8		16.0	
293	WWFCZ2	M	MID-FLOOD	10-Aug-07	8:47	39.80	26.3	5.59	5.52	5.64	79.3	78.0	8.1	27.9	3.4	3.6		9.5	
294	WWFCZ2	B	MID-FLOOD	10-Aug-07			26.0	5.67	5.62	5.65	78.2	77.6	8.1	27.8	3.3	3.4	3.5	8.0	11.2
295	WFCZR1	S	MID-FLOOD	10-Aug-07			27.4	5.88	5.84		79.2	78.6	8.1	26.1	4.1	4.1		17.0	
296	WFCZR1	M	MID-FLOOD	10-Aug-07	8:33	40.50	26.5	5.78	5.77	5.82	77.5	77.0	8.1	27.2	4.2	4.5		12.0	
297	WFCZR1	B	MID-FLOOD	10-Aug-07			26.2	5.61	5.58	5.60	76.9	76.5	8.1	25.5	4.6	4.6	4.3	8.5	12.5
298	WFCZR2	S	MID-FLOOD	10-Aug-07			27.4	5.96	5.92		84.3	83.6	8.1	27.1	4.9	4.9		6.5	
299	WFCZR2	M	MID-FLOOD	10-Aug-07	8:20	41.10	27.0	5.76	5.70	5.84	81.0	80.5	8.1	26.3	4.2	4.3		6.5	
300	WFCZR2	B	MID-FLOOD	10-Aug-07			26.5	5.50	5.54	5.52	78.6	79.0	8.1	26.3	5.0	4.7	4.7	6.5	6.5
301	WWA1	S	MID-EBB	13-Aug-07			28.8	5.78	5.74		80.5	80.2	8.1	25.7	4.0	4.0		13.0	
302	WWA1	M	MID-EBB	13-Aug-07	13:57	6.70	27.6	5.58	5.52	5.66	78.6	78.2	8.1	26.2	4.2	4.5		11.5	
303	WWA1	B	MID-EBB	13-Aug-07			27.4	5.47	5.43	5.45	77.9	78.4	8.1	25.8	4.3	4.4	4.2	12.0	12.2
304	WWA2	S	MID-EBB	13-Aug-07			27.6	5.80	5.75		79.3	79.0	8.1	23.2	4.3	4.5		12.0	
305	WWA2	M	MID-EBB	13-Aug-07	13:44	6.40	27.6	5.61	5.48	5.66	78.4	78.1	8.1	24.8	4.6	4.7		11.5	
306	WWA2	B	MID-EBB	13-Aug-07			27.6	5.57	5.52	5.55	77.2	76.9	8.1	25.6	4.0	3.9	4.3	7.5	10.3
307	WWA3	S	MID-EBB	13-Aug-07			27.2	5.67	5.62		79.1	78.7	8.1	23.7	3.2	3.4		5.0	
308	WWA3	M	MID-EBB	13-Aug-07	13:30	6.10	27.3	5.59	5.53	5.60	76.2	75.3	8.1	24.4	4.0	3.7		5.5	
309	WWA3	B	MID-EBB	13-Aug-07			27.3	5.47	5.42	5.45	76.9	77.3	8.1	23.6	4.2	4.1	3.8	5.5	5.3

HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau – Environmental Monitoring & Audit Service
Marine Water Quality Impact Monitoring - August 2007

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Average Value
310	WRA1	S	MID-EBB	13-Aug-07			27.7	5.82	5.78		78.8	78.5	8.1	23.3	4.3	4.2		5.0	
311	WRA1	M	MID-EBB	13-Aug-07	14:12	33.70	27.2	5.63	5.59	5.71	77.2	76.0	8.1	24.7	3.9	3.8		6.0	
312	WRA1	B	MID-EBB	13-Aug-07			26.9	5.71	5.66	5.69	75.9	76.4	8.1	24.7	4.4	4.5	4.2	6.0	5.7
313	WRA2	S	MID-EBB	13-Aug-07			27.6	5.80	5.78		79.6	79.3	8.1	24.0	3.2	3.4		10.0	
314	WRA2	M	MID-EBB	13-Aug-07	14:25	31.50	27.4	5.63	5.60	5.70	78.2	78.4	8.1	24.9	4.0	4.1		5.0	
315	WRA2	B	MID-EBB	13-Aug-07			27.0	5.58	5.56	5.57	77.3	76.9	8.1	24.9	4.3	4.1	3.8	7.5	7.5
316	WRA3	S	MID-EBB	13-Aug-07			27.4	5.88	5.87		78.3	77.4	8.1	24.1	3.3	3.1		8.5	
317	WRA3	M	MID-EBB	13-Aug-07	14:40	30.60	26.8	5.79	5.75	5.82	76.8	77.0	8.1	24.0	4.0	3.8		10.0	
318	WRA3	B	MID-EBB	13-Aug-07			26.5	5.60	5.58	5.59	75.6	75.2	8.1	24.4	3.5	3.5	3.5	7.5	8.7
319	WWFCZ1	S	MID-EBB	13-Aug-07			28.0	5.78	5.75		80.6	80.1	8.1	21.9	3.7	3.7		12.0	
320	WWFCZ1	M	MID-EBB	13-Aug-07	15:24	39.80	27.6	5.60	5.58	5.68	79.6	79.5	8.1	23.0	4.0	4.1		9.5	
321	WWFCZ1	B	MID-EBB	13-Aug-07			26.2	5.47	5.42	5.45	79.1	78.6	8.1	23.0	4.2	4.4	4.0	11.0	10.8
322	WWFCZ2	S	MID-EBB	13-Aug-07			27.8	5.71	5.68		79.5	79.2	8.1	22.0	3.2	3.2		12.0	
323	WWFCZ2	M	MID-EBB	13-Aug-07	15:09	39.20	27.0	5.52	5.47	5.60	78.3	77.6	8.1	23.2	3.5	3.4		9.5	
324	WWFCZ2	B	MID-EBB	13-Aug-07			26.2	5.59	5.56	5.58	76.9	77.5	8.1	23.2	4.1	4.2	3.6	8.5	10.0
325	WFCZR1	S	MID-EBB	13-Aug-07			27.6	5.78	5.76		77.3	76.7	8.1	21.8	2.6	2.8		9.0	
326	WFCZR1	M	MID-EBB	13-Aug-07	15:39	40.70	27.0	5.50	5.49	5.63	76.0	77.7	8.1	23.9	2.7	2.6		12.0	
327	WFCZR1	B	MID-EBB	13-Aug-07			26.2	5.67	5.62	5.65	76.9	77.5	8.1	23.7	2.8	2.7	2.7	8.0	9.7
328	WFCZR2	S	MID-EBB	13-Aug-07			27.3	5.74	5.73		78.3	78.1	8.1	22.2	4.0	3.8		12.0	
329	WFCZR2	M	MID-EBB	13-Aug-07	14:57	41.60	26.9	5.80	5.82	5.77	79.0	79.4	8.1	23.1	2.5	2.5		10.0	
330	WFCZR2	B	MID-EBB	13-Aug-07			26.5	5.60	5.61	5.61	76.9	77.3	8.1	22.8	2.6	2.7	3.0	10.5	10.8
331	WWA1	S	MID-FLOOD	13-Aug-07			28.4	5.74	5.72		79.8	79.4	8.1	23.7	4.1	4.1		5.5	
332	WWA1	M	MID-FLOOD	13-Aug-07	8:26	7.30	27.9	5.61	5.58	5.66	79.1	79.6	8.1	25.6	4.3	4.3		10.5	
333	WWA1	B	MID-FLOOD	13-Aug-07			28.0	5.49	5.46	5.48	78.2	78.5	8.1	24.7	3.9	3.6	4.0	6.0	7.3
334	WWA2	S	MID-FLOOD	13-Aug-07			28.1	5.78	5.75		77.9	77.5	8.1	24.0	3.2	3.4		10.5	
335	WWA2	M	MID-FLOOD	13-Aug-07	8:12	6.90	28.1	5.68	5.61	5.71	78.6	78.2	8.1	25.9	3.2	3.2		9.5	
336	WWA2	B	MID-FLOOD	13-Aug-07			28.0	5.50	5.52	5.51	79.6	79.2	8.1	23.8	4.1	4.2	3.6	14.5	11.5
337	WWA3	S	MID-FLOOD	13-Aug-07			27.9	5.69	5.64		77.4	77.9	8.1	24.0	5.0	4.9		12.5	
338	WWA3	M	MID-FLOOD	13-Aug-07	8:00	6.70	27.8	5.56	5.52	5.61	78.7	78.2	8.1	25.9	4.5	4.6		14.0	
339	WWA3	B	MID-FLOOD	13-Aug-07			27.8	5.74	5.73	5.74	77.6	77.5	8.1	23.8	4.8	4.7	4.7	17.0	14.5
340	WRA1	S	MID-FLOOD	13-Aug-07			28.2	5.79	5.72		79.5	79.2	8.1	24.0	4.2	4.4		14.0	
341	WRA1	M	MID-FLOOD	13-Aug-07	8:40	34.90	27.6	5.61	5.59	5.68	78.6	78.1	8.1	24.7	4.2	4.3		10.0	
342	WRA1	B	MID-FLOOD	13-Aug-07			27.7	5.78	5.73	5.76	77.9	77.7	8.1	24.7	5.1	5.1	4.5	8.0	10.7
343	WRA2	S	MID-FLOOD	13-Aug-07			28.3	5.70	5.58		79.1	78.6	8.1	24.2	3.2	3.1		6.5	
344	WRA2	M	MID-FLOOD	13-Aug-07	8:53	33.90	27.9	5.69	5.62	5.65	77.9	78.3	8.1	24.6	4.5	4.5		6.5	
345	WRA2	B	MID-FLOOD	13-Aug-07			27.1	5.74	5.72	5.73	76.0	76.8	8.1	24.8	3.2	3.4	3.7	6.5	6.5
346	WRA3	S	MID-FLOOD	13-Aug-07			28.0	5.81	5.78		79.2	78.6	8.1	24.1	3.8	3.5		11.0	
347	WRA3	M	MID-FLOOD	13-Aug-07	9:12	32.90	27.5	5.64	5.60	5.71	77.5	77.9	8.1	24.9	4.1	4.1		9.5	
348	WRA3	B	MID-FLOOD	13-Aug-07			27.0	5.58	5.53	5.56	76.6	76.8	8.1	25.0	4.9	4.9	4.2	10.5	10.3
349	WWFCZ1	S	MID-FLOOD	13-Aug-07			28.2	5.67	5.61		78.2	77.6	8.1	25.6	3.3	3.3		6.0	
350	WWFCZ1	M	MID-FLOOD	13-Aug-07	9:56	40.60	27.7	5.57	5.50	5.59	79.4	77.3	8.1	24.9	3.3	3.5		7.0	
351	WWFCZ1	B	MID-FLOOD	13-Aug-07			27.0	5.42	5.40	5.41	76.0	75.5	8.1	25.0	3.3	3.1	3.3	7.5	6.8
352	WWFCZ2	S	MID-FLOOD	13-Aug-07			28.0	5.70	5.72		78.3	77.2	8.1	24.3	3.0	2.9		6.0	
353	WWFCZ2	M	MID-FLOOD	13-Aug-07	9:43	39.70	26.9	5.59	5.64	5.66	76.9	76.6	8.1	24.9	2.5	2.5		7.0	

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
354	WWFCZ2	B	MID-FLOOD	13-Aug-07			26.4	5.44	5.47	5.46	76.3	76.5	8.1	24.9	3.1	3.2	2.8	7.0	6.7
355	WFCZR1	S	MID-FLOOD	13-Aug-07			27.8	5.69	5.74		78.2	76.7	8.1	25.1	3.3	3.4		12.0	
356	WFCZR1	M	MID-FLOOD	13-Aug-07	10:13	41.20	26.6	5.59	5.56	5.65	78.4	77.2	8.1	25.0	4.2	4.3		8.0	
357	WFCZR1	B	MID-FLOOD	13-Aug-07			26.1	5.43	5.41	5.42	76.9	77.4	8.1	24.6	5.0	4.8	4.2	8.0	9.3
358	WFCZR2	S	MID-FLOOD	13-Aug-07			27.4	5.63	5.60		78.1	76.8	8.1	25.0	2.8	2.7		5.5	
359	WFCZR2	M	MID-FLOOD	13-Aug-07	9:25	40.90	26.6	5.56	5.52	5.58	77.5	77.2	8.1	25.2	2.5	2.6		13.5	
360	WFCZR2	B	MID-FLOOD	13-Aug-07			26.1	5.40	5.41	5.41	77.4	77.0	8.1	25.2	3.2	3.3	2.8	9.5	9.5
361	WWA1	S	MID-EBB	15-Aug-07			27.8	5.82	5.78		86.9	85.3	8.1	26.5	3.7	3.6		7.0	
362	WWA1	M	MID-EBB	15-Aug-07	15:27	6.50	27.8	5.63	5.60	5.71	85.7	84.6	8.1	27.9	3.5	3.3		7.5	
363	WWA1	B	MID-EBB	15-Aug-07			27.8	5.49	5.43	5.46	84.4	83.9	8.1	25.4	3.3	3.5	3.5	6.0	6.8
364	WWA2	S	MID-EBB	15-Aug-07			27.5	5.78	5.73		87.6	86.1	8.1	27.2	4.3	4.1		5.5	
365	WWA2	M	MID-EBB	15-Aug-07	15:13	6.30	27.4	5.63	5.58	5.68	85.9	85.2	8.1	26.3	4.3	4.2		5.5	
366	WWA2	B	MID-EBB	15-Aug-07			27.4	5.56	5.50	5.53	87.6	86.3	8.1	26.1	3.0	2.6	3.7	5.5	5.5
367	WWA3	S	MID-EBB	15-Aug-07			27.6	5.79	5.74		84.2	81.7	8.1	25.4	3.2	3.2		5.0	
368	WWA3	M	MID-EBB	15-Aug-07	15:00	6.20	27.5	5.60	5.58	5.68	83.9	82.2	8.1	25.3	3.3	3.4		5.0	
369	WWA3	B	MID-EBB	15-Aug-07			27.4	5.52	5.49	5.51	84.6	83.1	8.1	25.3	4.2	4.3	3.6	8.0	6.0
370	WRA1	S	MID-EBB	15-Aug-07			27.7	5.86	5.75		85.7	84.2	8.1	25.3	4.2	4.4		5.5	
371	WRA1	M	MID-EBB	15-Aug-07	15:42	33.80	27.6	5.94	5.87	5.86	87.9	86.6	8.1	24.6	4.5	4.6		6.5	
372	WRA1	B	MID-EBB	15-Aug-07			27.6	5.98	5.86	5.92	85.4	84.1	8.1	25.2	3.3	3.4	4.0	6.5	6.2
373	WRA2	S	MID-EBB	15-Aug-07			27.5	5.75	5.69		84.9	83.5	8.1	26.1	4.1	4.2		7.0	
374	WRA2	M	MID-EBB	15-Aug-07	15:58	31.70	27.3	5.54	5.57	5.64	83.2	82.6	8.1	25.3	4.5	4.6		12.0	
375	WRA2	B	MID-EBB	15-Aug-07			27.3	5.42	5.39	5.41	88.4	87.1	8.1	24.9	3.2	3.4	4.0	6.5	8.5
376	WRA3	S	MID-EBB	15-Aug-07			27.7	5.57	5.42		86.9	85.3	8.1	25.5	4.0	3.8		8.5	
377	WRA3	M	MID-EBB	15-Aug-07	16:07	30.90	27.6	5.63	5.61	5.56	84.6	84.1	8.1	24.9	3.2	3.4		9.0	
378	WRA3	B	MID-EBB	15-Aug-07			27.6	5.87	5.85	5.86	82.7	82.3	8.1	24.1	3.5	3.6	3.6	5.5	7.7
379	WWFCZ1	S	MID-EBB	15-Aug-07			27.8	5.81	5.74		84.6	83.1	8.1	25.7	3.6	3.5		6.0	
380	WWFCZ1	M	MID-EBB	15-Aug-07	16:50	38.60	27.6	5.69	5.58	5.71	82.7	81.5	8.1	25.4	3.6	3.7		8.0	
381	WWFCZ1	B	MID-EBB	15-Aug-07			27.6	5.41	5.35	5.38	80.9	81.2	8.1	25.4	3.2	3.4	3.5	6.5	6.8
382	WWFCZ2	S	MID-EBB	15-Aug-07			27.7	5.59	5.53		89.4	88.7	8.1	25.9	4.2	4.3		6.0	
383	WWFCZ2	M	MID-EBB	15-Aug-07	16:35	37.10	27.6	5.42	5.41	5.49	86.5	85.3	8.1	26.1	4.6	4.6		9.5	
384	WWFCZ2	B	MID-EBB	15-Aug-07			27.5	5.56	5.53	5.55	84.7	84.2	8.1	26.3	4.6	4.6	4.5	5.5	7.0
385	WFCZR1	S	MID-EBB	15-Aug-07			27.8	5.41	5.36		86.9	85.7	8.1	27.2	4.5	4.4		10.0	
386	WFCZR1	M	MID-EBB	15-Aug-07	16:59	39.20	27.7	5.52	5.49	5.45	83.9	82.7	8.1	27.9	4.6	4.7		5.0	
387	WFCZR1	B	MID-EBB	15-Aug-07			27.7	5.86	5.81	5.84	81.8	82.5	8.1	26.3	4.0	3.7	4.3	5.0	6.7
388	WFCZR2	S	MID-EBB	15-Aug-07			27.7	5.77	5.76		88.7	87.2	8.1	24.8	3.8	3.7		8.0	
389	WFCZR2	M	MID-EBB	15-Aug-07	16:20	38.30	27.6	5.73	5.62	5.72	86.9	85.3	8.1	25.2	3.3	3.2		5.0	
390	WFCZR2	B	MID-EBB	15-Aug-07			27.5	5.63	5.55	5.59	84.7	83.6	8.1	25.1	4.0	4.2	3.7	5.5	6.2
391	WWA1	S	MID-FLOOD	15-Aug-07			27.3	5.93	5.85		85.7	84.9	8.1	27.3	4.0	4.1		9.0	
392	WWA1	M	MID-FLOOD	15-Aug-07	9:27	6.80	27.2	5.77	5.69	5.81	86.2	85.3	8.1	26.5	4.3	4.5		8.5	
393	WWA1	B	MID-FLOOD	15-Aug-07			27.2	5.85	5.81	5.83	84.2	83.6	8.1	26.4	4.0	3.8	4.1	10.0	9.2
394	WWA2	S	MID-FLOOD	15-Aug-07			27.4	5.93	5.81		86.9	85.5	8.1	25.9	3.3	3.4		9.5	
395	WWA2	M	MID-FLOOD	15-Aug-07	9:15	6.70	27.3	5.85	5.79	5.85	83.2	81.7	8.1	24.3	3.5	3.7		9.5	
396	WWA2	B	MID-FLOOD	15-Aug-07			27.3	5.45	5.37	5.41	84.4	83.6	8.1	24.1	3.2	3.5	3.4	11.5	10.2
397	WWA3	S	MID-FLOOD	15-Aug-07			27.2	6.03	6.02		82.7	81.5	8.1	25.8	3.0	2.9		7.5	

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
398	WWA3	M	MID-FLOOD	15-Aug-07	9:00	6.50	27.2	5.95	5.91	5.98	84.9	83.1	8.1	25.3	2.5	2.5		7.0	
399	WWA3	B	MID-FLOOD	15-Aug-07			27.2	5.74	5.65	5.70	85.5	84.2	8.1	25.3	3.0	2.9	2.8	8.5	7.7
400	WRA1	S	MID-FLOOD	15-Aug-07			27.4	5.75	5.61		87.2	86.3	8.1	24.7	4.1	4.1		7.5	
401	WRA1	M	MID-FLOOD	15-Aug-07	9:44	34.30	27.3	5.96	5.85	5.79	85.5	84.2	8.1	23.8	4.5	4.7		7.5	
402	WRA1	B	MID-FLOOD	15-Aug-07			27.3	5.77	5.65	5.71	81.6	82.2	8.1	24.5	5.2	5.1	4.6	7.5	7.5
403	WRA2	S	MID-FLOOD	15-Aug-07			27.3	5.84	5.79		80.9	80.3	8.1	25.2	2.9	2.8		10.0	
404	WRA2	M	MID-FLOOD	15-Aug-07	9:58	32.60	27.2	5.62	5.57	5.71	79.3	78.2	8.1	24.3	3.1	3.3		11.5	
405	WRA2	B	MID-FLOOD	15-Aug-07			27.2	5.83	5.75	5.79	77.4	76.1	8.1	23.9	3.5	3.6	3.2	5.5	9.0
406	WRA3	S	MID-FLOOD	15-Aug-07			27.3	5.94	5.91		80.9	79.6	8.1	25.5	4.2	4.3		8.0	
407	WRA3	M	MID-FLOOD	15-Aug-07	10:17	31.80	27.3	5.86	5.75	5.87	82.3	80.5	8.1	23.6	4.5	4.4		7.0	
408	WRA3	B	MID-FLOOD	15-Aug-07			27.2	5.64	5.61	5.63	80.3	79.2	8.1	22.7	4.3	4.1	4.3	6.5	7.2
409	WWFCZ1	S	MID-FLOOD	15-Aug-07			27.4	5.89	5.75		83.1	82.7	8.1	26.1	4.0	4.2		12.5	
410	WWFCZ1	M	MID-FLOOD	15-Aug-07	11:06	40.50	27.3	5.72	5.75	5.78	80.9	79.5	8.1	25.7	3.7	3.8		7.0	
411	WWFCZ1	B	MID-FLOOD	15-Aug-07			27.3	5.48	5.37	5.43	82.3	80.5	8.1	24.8	3.5	3.6	3.8	8.5	9.3
412	WWFCZ2	S	MID-FLOOD	15-Aug-07			27.3	6.03	6.05		88.6	87.2	8.1	25.3	4.3	4.6		13.0	
413	WWFCZ2	M	MID-FLOOD	15-Aug-07	10:48	38.70	27.2	6.21	6.09	6.10	86.4	85.7	8.1	24.2	4.0	4.2		5.0	
414	WWFCZ2	B	MID-FLOOD	15-Aug-07			27.2	5.76	5.71	5.74	80.3	79.2	8.1	22.7	4.2	4.3	4.3	6.0	8.0
415	WFCZR1	S	MID-FLOOD	15-Aug-07			27.4	5.98	5.83		84.9	83.6	8.1	26.5	4.5	4.6		7.0	
416	WFCZR1	M	MID-FLOOD	15-Aug-07	11:20	41.50	27.4	5.99	5.76	5.89	85.1	84.2	8.1	28.1	5.1	5.1		9.0	
417	WFCZR1	B	MID-FLOOD	15-Aug-07			27.3	5.85	5.75	5.80	79.5	78.1	8.1	27.6	4.8	4.8	4.8	9.5	8.5
418	WFCZR2	S	MID-FLOOD	15-Aug-07			27.3	5.21	5.18		84.3	82.7	8.1	25.3	3.3	3.4		10.0	
419	WFCZR2	M	MID-FLOOD	15-Aug-07	10:30	39.50	27.3	6.05	6.15	5.65	83.5	82.2	8.1	26.4	3.6	3.7		11.0	
420	WFCZR2	B	MID-FLOOD	15-Aug-07			27.3	5.97	5.82	5.90	82.9	81.3	8.1	24.7	3.0	2.9	3.3	7.5	9.5
421	WWA1	S	MID-EBB	17-Aug-07			26.7	5.94	5.84		80.3	79.2	8.1	26.5	3.9	3.7		11.0	
422	WWA1	M	MID-EBB	17-Aug-07	15:27	6.60	26.6	5.76	5.67	5.80	79.1	78.5	8.1	26.9	3.8	3.8		12.0	
423	WWA1	B	MID-EBB	17-Aug-07			26.6	5.95	5.83	5.89	82.7	81.1	8.1	29.0	3.2	3.3	3.6	8.0	10.3
424	WWA2	S	MID-EBB	17-Aug-07			26.7	5.86	5.75		82.1	80.3	8.1	29.0	4.2	4.2		9.0	
425	WWA2	M	MID-EBB	17-Aug-07	15:13	6.50	26.6	5.74	5.63	5.75	80.5	79.6	8.1	29.1	3.0	2.8		11.5	
426	WWA2	B	MID-EBB	17-Aug-07			26.6	5.94	5.88	5.91	82.7	81.6	8.1	29.3	4.1	4.3	3.8	9.5	10.0
427	WWA3	S	MID-EBB	17-Aug-07			27.6	5.97	5.86		86.5	86.1	8.1	24.4	4.6	4.6		8.0	
428	WWA3	M	MID-EBB	17-Aug-07	15:00	6.40	27.0	5.75	5.63	5.80	87.2	86.5	8.1	28.9	4.0	3.9		9.0	
429	WWA3	B	MID-EBB	17-Aug-07			27.0	5.57	5.52	5.55	84.3	82.9	8.1	28.6	3.6	3.6	4.0	7.5	8.2
430	WRA1	S	MID-EBB	17-Aug-07			27.1	6.12	5.99		89.2	88.3	8.1	27.8	4.2	4.3		8.5	
431	WRA1	M	MID-EBB	17-Aug-07	15:43	33.70	26.3	6.03	5.96	6.03	87.2	86.4	8.1	29.7	3.9	3.9		9.5	
432	WRA1	B	MID-EBB	17-Aug-07			26.0	5.74	5.67	5.71	84.2	83.7	8.1	30.1	3.3	3.4	3.8	16.0	11.3
433	WRA2	S	MID-EBB	17-Aug-07			26.4	5.96	5.82		87.6	86.3	8.1	28.3	3.6	3.6		14.5	
434	WRA2	M	MID-EBB	17-Aug-07	15:59	32.90	26.3	5.87	5.73	5.85	83.1	82.6	8.1	29.2	3.5	3.6		16.0	
435	WRA2	B	MID-EBB	17-Aug-07			26.2	5.74	5.65	5.70	80.6	79.2	8.1	29.6	3.6	3.7	3.6	15.5	15.3
436	WRA3	S	MID-EBB	17-Aug-07			26.9	5.62	5.54		87.2	84.1	8.1	27.9	5.0	4.9		14.5	
437	WRA3	M	MID-EBB	17-Aug-07	16:12	31.50	26.8	5.40	5.28	5.46	84.9	82.3	8.1	28.2	4.3	4.3		18.0	
438	WRA3	B	MID-EBB	17-Aug-07			26.1	5.49	5.41	5.45	88.2	87.2	8.1	29.8	3.2	3.4	4.2	16.0	16.2
439	WWFCZ1	S	MID-EBB	17-Aug-07			28.6	5.77	5.73		87.1	86.5	8.1	26.8	3.6	3.8		10.5	
440	WWFCZ1	M	MID-EBB	17-Aug-07	16:58	40.50	26.3	5.82	8.71	6.51	86.3	85.1	8.1	29.3	3.8	3.7		6.0	
441	WWFCZ1	B	MID-EBB	17-Aug-07			26.2	5.76	5.64	5.70	83.2	82.5	8.1	29.6	4.1	4.2	3.9	5.5	7.3

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Average Value
442	WWFCZ2	S	MID-EBB	17-Aug-07			26.8	5.42	5.37		83.6	80.5	8.1	28.6	3.3	3.4		8.5	
443	WWFCZ2	M	MID-EBB	17-Aug-07	16:45	38.70	26.6	5.53	5.46	5.45	87.1	86.2	8.1	29.0	3.6	3.6		10.0	
444	WWFCZ2	B	MID-EBB	17-Aug-07			26.7	5.51	5.48	5.50	85.4	84.1	8.1	28.9	3.2	3.7	3.5	8.5	9.0
445	WFCZR1	S	MID-EBB	17-Aug-07			26.0	5.73	5.68		82.1	81.9	8.1	29.5	3.8	3.7		13.0	
446	WFCZR1	M	MID-EBB	17-Aug-07	17:09	41.50	26.2	5.62	5.53	5.64	83.9	82.6	8.1	29.5	3.5	3.5		10.0	
447	WFCZR1	B	MID-EBB	17-Aug-07			26.1	5.48	5.46	5.47	80.1	79.5	8.1	27.9	3.3	3.3	3.5	11.0	11.3
448	WFCZR2	S	MID-EBB	17-Aug-07			26.8	5.56	5.35		92.8	88.3	8.1	28.7	4.1	4.1		9.5	
449	WFCZR2	M	MID-EBB	17-Aug-07	16:28	39.30	26.9	5.46	5.37	5.44	83.3	81.2	8.1	28.8	4.2	4.3		7.5	
450	WFCZR2	B	MID-EBB	17-Aug-07			26.3	5.45	5.39	5.42	81.2	79.9	8.1	29.5	4.2	4.6	4.2	5.0	7.3
451	WWA1	S	MID-FLOOD	17-Aug-07			25.9	6.13	6.05		101.2	98.3	8.1	30.0	4.5	4.5		8.0	
452	WWA1	M	MID-FLOOD	17-Aug-07	15:23	6.90	25.9	6.12	6.09	6.10	126.9	126.0	8.1	30.0	4.0	3.9		11.5	
453	WWA1	B	MID-FLOOD	17-Aug-07			25.9	6.23	6.16	6.20	115.4	113.7	8.1	30.0	3.3	3.4	3.9	11.5	10.3
454	WWA2	S	MID-FLOOD	17-Aug-07			26.0	6.25	6.17		105.7	103.6	8.1	29.8	4.1	4.2		11.0	
455	WWA2	M	MID-FLOOD	17-Aug-07	15:09	6.80	26.0	6.09	6.02	6.13	98.9	97.5	8.1	30.1	2.9	2.5		11.5	
456	WWA2	B	MID-FLOOD	17-Aug-07			25.9	5.87	5.75	5.81	96.4	95.7	8.1	30.1	4.1	4.1	3.6	15.5	12.7
457	WWA3	S	MID-FLOOD	17-Aug-07			25.8	5.75	5.71		98.8	98.1	8.1	30.3	4.2	4.3		10.5	
458	WWA3	M	MID-FLOOD	17-Aug-07	15:00	6.60	25.8	5.89	5.86	5.80	100.5	99.3	8.1	30.1	3.6	3.6		12.0	
459	WWA3	B	MID-FLOOD	17-Aug-07			25.8	6.03	6.01	6.02	100.9	98.7	8.1	30.1	3.3	3.4	3.7	12.0	11.5
460	WRA1	S	MID-FLOOD	17-Aug-07			26.0	8.06	7.98		125.7	123.4	8.1	30.0	4.1	4.1		13.0	
461	WRA1	M	MID-FLOOD	17-Aug-07	15:37	34.50	26.1	8.21	8.09	8.09	131.3	128.9	8.1	30.0	4.2	4.3		11.0	
462	WRA1	B	MID-FLOOD	17-Aug-07			25.8	8.54	8.37	8.46	135.5	131.3	8.1	30.0	5.0	4.9	4.4	10.5	11.5
463	WRA2	S	MID-FLOOD	17-Aug-07			25.9	7.77	7.65		118.3	117.0	8.1	29.9	3.3	3.2		10.5	
464	WRA2	M	MID-FLOOD	17-Aug-07	15:52	33.70	26.0	7.92	7.88	7.81	121.2	120.3	8.1	30.0	3.3	3.4		12.0	
465	WRA2	B	MID-FLOOD	17-Aug-07			26.0	7.68	7.53	7.61	124.4	123.2	8.1	30.2	3.7	3.6	3.4	12.5	11.7
466	WRA3	S	MID-FLOOD	17-Aug-07			26.1	7.24	7.18		111.3	110.5	8.1	29.9	4.2	4.2		9.0	
467	WRA3	M	MID-FLOOD	17-Aug-07	16:09	32.90	26.1	7.23	7.20	7.21	108.6	108.0	8.1	30.0	4.1	4.1		13.0	
468	WRA3	B	MID-FLOOD	17-Aug-07			26.0	7.56	7.54	7.55	114.4	113.3	8.1	30.1	3.0	2.9	3.7	10.5	10.8
469	WWFCZ1	S	MID-FLOOD	17-Aug-07			25.7	6.21	6.09		98.7	96.5	8.1	30.3	4.0	3.9		16.0	
470	WWFCZ1	M	MID-FLOOD	17-Aug-07	16:53	41.20	25.8	5.95	5.83	6.02	90.7	89.6	8.1	30.4	3.6	3.3		8.0	
471	WWFCZ1	B	MID-FLOOD	17-Aug-07			25.7	5.87	5.74	5.81	92.5	91.3	8.1	29.4	3.4	3.5	3.6	10.0	11.3
472	WWFCZ2	S	MID-FLOOD	17-Aug-07			25.8	6.04	5.96		97.5	96.7	8.1	30.5	3.2	3.3		6.5	
473	WWFCZ2	M	MID-FLOOD	17-Aug-07	16:40	39.50	25.7	6.12	6.05	6.04	100.3	98.8	8.1	30.1	4.1	4.2		12.5	
474	WWFCZ2	B	MID-FLOOD	17-Aug-07			25.7	5.88	5.74	5.81	97.6	96.5	8.1	30.1	4.4	4.4	3.9	15.0	11.3
475	WFCZR1	S	MID-FLOOD	17-Aug-07			26.1	6.16	6.09		98.3	97.5	8.1	30.3	3.3	3.2		13.0	
476	WFCZR1	M	MID-FLOOD	17-Aug-07	17:08	42.30	25.8	6.23	6.15	6.16	98.9	98.6	8.1	29.6	3.2	3.5		11.5	
477	WFCZR1	B	MID-FLOOD	17-Aug-07			25.8	5.96	5.93	5.95	95.7	94.8	8.1	30.2	3.8	3.6	3.4	14.5	13.0
478	WFCZR2	S	MID-FLOOD	17-Aug-07			26.0	6.85	6.73		97.4	92.1	8.1	23.6	3.6	3.5		15.0	
479	WFCZR2	M	MID-FLOOD	17-Aug-07	16:25	40.90	25.9	6.63	6.60	6.70	98.1	97.2	8.1	22.6	3.3	3.5		11.0	
480	WFCZR2	B	MID-FLOOD	17-Aug-07			25.9	6.54	6.48	6.51	96.2	95.8	8.1	23.1	3.3	3.3	3.4	10.5	12.2
481	WWA1	S	MID-EBB	20-Aug-07			27.2	5.86	5.74		80.5	79.6	8.0	27.4	2.9	2.7		5.0	
482	WWA1	M	MID-EBB	20-Aug-07	16:55	6.60	27.2	5.75	5.69	5.76	77.4	76.3	8.0	27.1	2.9	2.9		7.0	
483	WWA1	B	MID-EBB	20-Aug-07			27.3	5.83	5.72	5.78	78.1	77.9	8.0	27.4	3.1	3.1	2.9	7.5	6.5
484	WWA2	S	MID-EBB	20-Aug-07			27.4	5.64	5.51		76.5	75.4	8.0	26.5	3.2	3.2		6.0	
485	WWA2	M	MID-EBB	20-Aug-07	16:42	6.50	27.3	5.48	5.41	5.51	73.2	71.9	8.0	26.3	2.8	2.7		5.5	

HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau – Environmental Monitoring & Audit Service
Marine Water Quality Impact Monitoring - August 2007

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Average Value
486	WWA2	B	MID-EBB	20-Aug-07			27.3	5.98	5.76	5.87	80.3	79.6	8.0	26.9	2.9	2.9	2.9	8.5	6.7
487	WWA3	S	MID-EBB	20-Aug-07			27.2	5.81	5.88		81.4	80.5	8.0	28.2	2.7	2.6		7.5	
488	WWA3	M	MID-EBB	20-Aug-07	16:30	6.40	27.2	5.92	6.03	5.91	78.6	77.2	8.0	29.1	3.1	3.3		7.5	
489	WWA3	B	MID-EBB	20-Aug-07			27.1	5.74	5.76	5.75	76.3	74.9	8.0	29.3	4.0	3.8	3.2	7.0	7.3
490	WRA1	S	MID-EBB	20-Aug-07			27.3	6.13	6.04		80.7	79.6	8.0	29.1	3.2	3.3		9.5	
491	WRA1	M	MID-EBB	20-Aug-07	17:05	33.20	27.3	5.98	5.83	6.00	82.1	81.3	8.0	28.5	3.3	3.1		7.0	
492	WRA1	B	MID-EBB	20-Aug-07			27.2	5.82	5.76	5.79	80.2	79.5	8.0	27.9	3.8	3.9	3.4	11.5	9.3
493	WRA2	S	MID-EBB	20-Aug-07			27.3	5.94	5.91		79.3	78.4	8.0	27.5	4.3	4.1		7.0	
494	WRA2	M	MID-EBB	20-Aug-07	17:17	32.60	27.2	5.85	5.71	5.85	78.5	77.6	8.0	26.4	4.3	4.3		7.5	
495	WRA2	B	MID-EBB	20-Aug-07			27.1	5.94	5.88	5.91	79.4	78.7	8.0	26.3	3.3	3.2	3.9	8.0	7.5
496	WRA3	S	MID-EBB	20-Aug-07			27.4	5.41	5.37		76.5	75.3	8.0	29.2	4.2	4.2		9.5	
497	WRA3	M	MID-EBB	20-Aug-07	17:30	31.30	27.4	5.96	5.83	5.64	79.2	78.7	8.0	29.1	4.0	4.2		16.0	
498	WRA3	B	MID-EBB	20-Aug-07			27.3	5.79	5.65	5.72	79.2	78.5	8.0	28.7	4.0	3.9	4.1	9.0	11.5
499	WWFCZ1	S	MID-EBB	20-Aug-07			27.5	5.94	5.87		80.9	79.6	8.0	27.5	4.2	4.1		9.5	
500	WWFCZ1	M	MID-EBB	20-Aug-07	18:10	39.60	27.4	5.59	5.48	5.72	78.7	77.4	8.0	27.5	3.3	3.7		7.5	
501	WWFCZ1	B	MID-EBB	20-Aug-07			27.4	5.47	5.61	5.54	75.2	74.1	8.0	27.4	3.9	3.6	3.8	8.0	8.3
502	WWFCZ2	S	MID-EBB	20-Aug-07			27.5	5.79	5.65		79.6	78.7	8.0	28.2	3.5	3.6		8.5	
503	WWFCZ2	M	MID-EBB	20-Aug-07	17:59	38.50	27.3	5.98	5.83	5.81	80.1	79.5	8.0	27.9	4.1	4.1		9.5	
504	WWFCZ2	B	MID-EBB	20-Aug-07			27.3	5.86	5.82	5.84	77.4	76.3	8.0	27.8	4.2	4.3	4.0	8.0	8.7
505	WFCZR1	S	MID-EBB	20-Aug-07			27.4	5.74	5.61		80.2	76.5	8.0	27.9	4.0	3.9		8.5	
506	WFCZR1	M	MID-EBB	20-Aug-07	18:23	40.30	27.4	5.97	5.87	5.80	78.7	77.2	8.0	27.9	3.6	3.6		9.5	
507	WFCZR1	B	MID-EBB	20-Aug-07			27.3	5.76	5.73	5.75	78.2	77.5	8.0	27.9	3.3	3.4	3.6	9.0	9.0
508	WFCZR2	S	MID-EBB	20-Aug-07			27.5	5.59	5.48		75.1	74.6	8.0	26.3	4.0	4.2		10.0	
509	WFCZR2	M	MID-EBB	20-Aug-07	17:43	39.80	27.4	5.67	5.61	5.59	73.8	72.9	8.0	26.4	4.2	4.1		6.5	
510	WFCZR2	B	MID-EBB	20-Aug-07			27.4	5.98	5.98	5.98	75.8	74.6	8.0	26.7	3.0	2.9	3.7	7.0	7.8
511	WWA1	S	MID-FLOOD	20-Aug-07			27.4	6.02	5.97		81.3	79.3	8.0	29.5	4.1	4.2		10.0	
512	WWA1	M	MID-FLOOD	20-Aug-07	12:29	6.90	27.3	5.88	5.76	5.91	82.5	81.3	8.0	28.7	3.8	3.6		10.0	
513	WWA1	B	MID-FLOOD	20-Aug-07			27.3	5.75	5.73	5.74	79.9	78.7	8.0	28.5	4.2	4.1	4.0	10.0	10.0
514	WWA2	S	MID-FLOOD	20-Aug-07			27.5	5.95	5.82		81.3	80.5	8.0	27.6	4.2	4.3		8.5	
515	WWA2	M	MID-FLOOD	20-Aug-07	12:13	6.80	27.4	5.88	5.83	5.87	78.2	77.3	8.0	27.1	2.9	2.9		12.0	
516	WWA2	B	MID-FLOOD	20-Aug-07			27.4	5.97	5.83	5.90	79.4	78.7	8.0	26.3	3.2	3.3	3.5	13.5	11.3
517	WWA3	S	MID-FLOOD	20-Aug-07			27.4	6.13	6.04		82.4	81.5	8.0	25.9	3.9	3.9		7.5	
518	WWA3	M	MID-FLOOD	20-Aug-07	12:00	6.60	27.4	6.12	6.11	6.10	80.3	78.2	8.0	24.8	3.3	3.2		10.5	
519	WWA3	B	MID-FLOOD	20-Aug-07			27.3	5.76	5.65	5.71	79.4	78.7	8.0	23.7	4.1	4.2	3.8	10.0	9.3
520	WRA1	S	MID-FLOOD	20-Aug-07			27.4	5.78	5.63		86.3	85.2	8.0	26.3	4.0	4.2		7.0	
521	WRA1	M	MID-FLOOD	20-Aug-07	12:44	34.20	27.3	5.41	5.32	5.54	83.1	82.9	8.0	27.2	4.2	4.3		6.5	
522	WRA1	B	MID-FLOOD	20-Aug-07			27.3	5.59	5.63	5.61	81.6	80.7	8.0	29.4	3.3	3.3	3.9	6.0	6.5
523	WRA2	S	MID-FLOOD	20-Aug-07			27.4	5.76	5.87		82.4	81.3	8.0	29.5	3.9	3.8		5.5	
524	WRA2	M	MID-FLOOD	20-Aug-07	12:58	33.80	27.3	6.05	6.13	5.95	80.6	82.1	8.0	29.5	3.6	3.6		7.5	
525	WRA2	B	MID-FLOOD	20-Aug-07			27.3	6.09	6.24	6.17	81.3	80.5	8.0	29.6	3.9	3.9	3.8	5.0	6.0
526	WRA3	S	MID-FLOOD	20-Aug-07			27.4	6.07	5.93		82.4	81.9	8.0	29.4	4.1	4.1		7.0	
527	WRA3	M	MID-FLOOD	20-Aug-07	13:14	32.70	27.4	5.86	5.77	5.91	76.3	75.4	8.0	29.4	4.2	4.2		9.5	
528	WRA3	B	MID-FLOOD	20-Aug-07			27.4	5.48	5.57	5.53	77.2	76.1	8.0	29.4	4.1	4.2	4.2	5.5	7.3
529	WWFCZ1	S	MID-FLOOD	20-Aug-07			27.5	5.61	5.58		80.1	79.5	8.0	27.1	4.0	4.2		7.0	

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
530	WWFCZ1	M	MID-FLOOD	20-Aug-07	14:00	41.20	27.5	5.49	5.37	5.51	76.4	75.2	8.0	27.2	4.0	3.9		9.5	
531	WWFCZ1	B	MID-FLOOD	20-Aug-07			27.4	5.86	5.73	5.80	78.7	77.2	8.0	27.2	3.2	3.3	3.8	10.5	9.0
532	WWFCZ2	S	MID-FLOOD	20-Aug-07			27.6	5.76	5.71		80.9	79.1	8.0	26.8	4.1	4.1		12.5	
533	WWFCZ2	M	MID-FLOOD	20-Aug-07	13:46	39.80	27.5	5.85	5.81	5.78	82.3	81.4	8.0	29.5	4.2	4.3		8.0	
534	WWFCZ2	B	MID-FLOOD	20-Aug-07			27.4	5.94	5.87	5.91	82.2	81.6	8.0	29.5	4.0	3.9	4.1	7.5	9.3
535	WFCZR1	S	MID-FLOOD	20-Aug-07			27.5	6.01	5.89		80.9	79.5	8.0	27.8	3.8	3.6		7.0	
536	WFCZR1	M	MID-FLOOD	20-Aug-07	14:15	42.50	27.5	5.93	5.81	5.91	79.5	78.7	8.0	27.7	3.3	3.6		6.0	
537	WFCZR1	B	MID-FLOOD	20-Aug-07			27.4	5.76	5.72	5.74	79.3	78.2	8.0	27.6	3.3	3.7	3.5	9.0	7.3
538	WFCZR2	S	MID-FLOOD	20-Aug-07			27.4	5.48	5.42		77.4	76.3	8.0	28.9	4.0	3.8		12.0	
539	WFCZR2	M	MID-FLOOD	20-Aug-07	13:29	40.70	27.4	5.73	5.66	5.57	75.4	73.1	8.0	28.3	4.1	4.3		7.5	
540	WFCZR2	B	MID-FLOOD	20-Aug-07			27.3	5.82	5.79	5.81	74.9	73.1	8.0	28.2	4.1	4.2	4.1	11.0	10.2
541	WWA1	S	MID-EBB	22-Aug-07			27.4	6.13	6.06		82.7	81.3	8.1	22.3	4.2	4.0		7.5	
542	WWA1	M	MID-EBB	22-Aug-07	9:27	7.30	27.2	5.86	5.81	5.97	79.5	78.7	8.1	21.4	5.0	4.8		5.0	
543	WWA1	B	MID-EBB	22-Aug-07			27.2	5.94	5.88	5.91	77.4	76.3	8.1	21.7	3.2	3.3	4.1	7.0	6.5
544	WWA2	S	MID-EBB	22-Aug-07			27.4	5.76	5.71		75.7	74.8	8.1	23.5	3.0	2.9		7.0	
545	WWA2	M	MID-EBB	22-Aug-07	9:14	7.10	27.3	5.85	5.64	5.74	76.4	75.7	8.1	22.9	3.5	3.6		5.5	
546	WWA2	B	MID-EBB	22-Aug-07			27.3	5.75	5.72	5.74	78.9	74.7	8.1	22.7	3.7	3.7	3.4	5.5	6.0
547	WWA3	S	MID-EBB	22-Aug-07			27.5	5.99	5.93		77.1	76.9	8.1	21.6	3.9	3.7		6.5	
548	WWA3	M	MID-EBB	22-Aug-07	9:00	6.90	27.4	6.04	5.97	5.98	75.8	74.7	8.1	21.5	4.3	4.2		9.5	
549	WWA3	B	MID-EBB	22-Aug-07			27.3	5.83	5.76	5.80	76.5	76.4	8.1	21.5	4.1	4.2	4.0	9.0	8.3
550	WRA1	S	MID-EBB	22-Aug-07			27.4	5.84	5.76		79.5	78.7	8.1	19.4	3.1	3.1		6.0	
551	WRA1	M	MID-EBB	22-Aug-07	9:41	33.60	27.3	5.85	5.81	5.82	80.3	79.6	8.1	18.3	3.0	2.9		8.5	
552	WRA1	B	MID-EBB	22-Aug-07			27.1	5.69	5.63	5.66	78.5	77.1	8.1	17.2	3.5	3.5	3.2	6.5	7.0
553	WRA2	S	MID-EBB	22-Aug-07			27.5	5.85	5.74		77.4	76.1	8.1	19.6	3.2	3.3		9.5	
554	WRA2	M	MID-EBB	22-Aug-07	9:53	30.10	27.2	5.92	5.87	5.85	78.3	77.5	8.1	18.7	3.0	2.9		8.5	
555	WRA2	B	MID-EBB	22-Aug-07			27.1	5.66	5.51	5.59	79.1	78.4	8.1	18.5	2.5	2.5	2.9	5.0	7.7
556	WRA3	S	MID-EBB	22-Aug-07			27.4	5.78	5.73		79.7	79.3	8.1	20.1	3.0	2.8		7.5	
557	WRA3	M	MID-EBB	22-Aug-07	10:16	35.80	27.1	5.67	5.54	5.68	75.3	74.6	8.1	21.2	2.5	2.6		5.5	
558	WRA3	B	MID-EBB	22-Aug-07			26.9	5.82	5.73	5.78	77.2	76.1	8.1	19.8	3.1	3.2	2.9	5.0	6.0
559	WWFCZ1	S	MID-EBB	22-Aug-07			27.3	5.61	5.55		80.7	79.6	8.1	20.1	4.5	4.4		6.5	
560	WWFCZ1	M	MID-EBB	22-Aug-07	10:58	37.50	27.1	5.65	5.57	5.60	78.7	77.4	8.1	22.4	5.1	5.1		9.0	
561	WWFCZ1	B	MID-EBB	22-Aug-07			26.8	5.49	5.38	5.44	79.1	78.6	8.1	21.7	4.1	4.1	4.5	7.5	7.7
562	WWFCZ2	S	MID-EBB	22-Aug-07			27.4	5.47	5.46		78.5	77.4	8.1	20.9	3.9	3.9		14.0	
563	WWFCZ2	M	MID-EBB	22-Aug-07	10:44	33.90	27.0	5.95	5.88	5.69	79.1	78.3	8.1	21.3	3.7	3.7		7.0	
564	WWFCZ2	B	MID-EBB	22-Aug-07			26.7	5.64	5.58	5.61	78.6	77.2	8.1	20.8	3.9	3.6	3.8	8.5	9.8
565	WFCZR1	S	MID-EBB	22-Aug-07			27.5	5.77	5.69		78.6	77.1	8.1	22.5	4.1	4.0		5.5	
566	WFCZR1	M	MID-EBB	22-Aug-07	11:14	35.30	27.1	5.83	5.75	5.76	75.7	74.9	8.1	21.6	4.3	4.2		7.5	
567	WFCZR1	B	MID-EBB	22-Aug-07			26.9	5.92	5.87	5.90	77.9	77.3	8.1	20.8	3.2	3.4	3.9	5.0	6.0
568	WFCZR2	S	MID-EBB	22-Aug-07			27.5	5.63	5.54		80.7	79.1	8.1	22.7	4.0	3.9		5.0	
569	WFCZR2	M	MID-EBB	22-Aug-07	10:30	37.10	27.2	5.71	5.68	5.64	76.5	74.3	8.1	22.6	3.6	3.6		5.0	
570	WFCZR2	B	MID-EBB	22-Aug-07			26.8	5.93	5.84	5.89	78.2	77.6	8.1	22.6	2.5	2.5	3.3	6.0	5.3
571	WWA1	S	MID-FLOOD	22-Aug-07			27.3	5.84	5.76		80.9	79.5	8.1	19.8	3.3	3.1		6.5	
572	WWA1	M	MID-FLOOD	22-Aug-07	15:29	7.10	27.2	5.58	5.41	5.65	77.4	76.3	8.1	19.7	3.5	3.6		5.0	
573	WWA1	B	MID-FLOOD	22-Aug-07			27.2	5.65	5.57	5.61	75.2	74.1	8.1	19.7	4.1	4.2	3.6	5.5	5.7

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
574	WWA2	S	MID-FLOOD	22-Aug-07			27.3	5.77	5.63		76.4	73.9	8.1	20.6	3.2	3.3		5.0	
575	WWA2	M	MID-FLOOD	22-Aug-07	15:14	6.90	27.3	5.89	5.76	5.76	75.7	74.9	8.1	20.5	3.9	3.9		5.0	
576	WWA2	B	MID-FLOOD	22-Aug-07			27.2	5.61	5.59	5.60	77.1	76.9	8.1	20.5	2.6	2.6	3.3	6.5	5.5
577	WWA3	S	MID-FLOOD	22-Aug-07			27.3	5.76	5.61		74.7	73.1	8.1	18.3	3.0	2.8		9.0	
578	WWA3	M	MID-FLOOD	22-Aug-07	15:00	6.80	27.3	6.12	6.03	5.88	75.8	74.2	8.1	18.5	3.2	3.3		8.0	
579	WWA3	B	MID-FLOOD	22-Aug-07			27.2	6.14	6.07	6.11	73.6	72.1	8.1	18.5	3.3	3.6	3.2	11.0	9.3
580	WRA1	S	MID-FLOOD	22-Aug-07			27.5	5.47	5.58		78.3	77.1	8.1	20.7	4.1	4.1		7.5	
581	WRA1	M	MID-FLOOD	22-Aug-07	15:46	33.10	27.4	5.65	5.61	5.58	76.5	75.7	8.1	21.6	4.2	4.3		5.0	
582	WRA1	B	MID-FLOOD	22-Aug-07			27.3	5.74	5.69	5.72	74.9	73.8	8.1	21.5	3.8	3.8	4.0	11.5	8.0
583	WRA2	S	MID-FLOOD	22-Aug-07			27.6	5.83	5.72		77.9	77.1	8.1	22.3	3.7	3.5		6.0	
584	WRA2	M	MID-FLOOD	22-Aug-07	15:57	29.70	27.4	5.94	5.87	5.84	78.1	77.5	8.1	21.7	4.0	3.7		5.0	
585	WRA2	B	MID-FLOOD	22-Aug-07			27.3	5.65	5.54	5.60	78.7	77.4	8.1	20.6	4.0	4.2	3.8	6.0	5.7
586	WRA3	S	MID-FLOOD	22-Aug-07			27.5	5.81	5.73		76.5	76.1	8.1	21.5	3.9	3.8		5.0	
587	WRA3	M	MID-FLOOD	22-Aug-07	16:08	34.50	27.4	5.68	5.51	5.68	79.4	79.1	8.1	20.9	3.5	3.5		6.0	
588	WRA3	B	MID-FLOOD	22-Aug-07			27.2	5.89	5.82	5.86	78.6	77.5	8.1	20.3	3.3	3.4	3.5	5.0	5.3
589	WWFCZ1	S	MID-FLOOD	22-Aug-07			27.4	5.73	5.71		79.4	78.1	8.1	19.7	4.6	4.6		5.5	
590	WWFCZ1	M	MID-FLOOD	22-Aug-07	16:50	38.10	27.2	5.88	5.83	5.79	81.2	80.5	8.1	18.6	5.0	4.8		6.5	
591	WWFCZ1	B	MID-FLOOD	22-Aug-07			26.8	5.94	5.87	5.91	77.4	76.1	8.1	17.5	3.3	3.0	4.2	5.0	5.7
592	WWFCZ2	S	MID-FLOOD	22-Aug-07			27.5	5.76	5.71		77.9	77.3	8.1	19.4	3.2	3.3		10.5	
593	WWFCZ2	M	MID-FLOOD	22-Aug-07	16:39	34.50	27.2	5.65	5.54	5.67	76.8	76.2	8.1	20.1	3.6	3.5		7.0	
594	WWFCZ2	B	MID-FLOOD	22-Aug-07			26.9	5.76	5.73	5.75	75.7	74.8	8.1	21.3	4.0	3.9	3.6	6.0	7.8
595	WFCZR1	S	MID-FLOOD	22-Aug-07			27.4	5.98	5.75		79.1	78.6	8.1	19.7	3.1	3.0		11.5	
596	WFCZR1	M	MID-FLOOD	22-Aug-07	17:03	36.10	27.1	5.64	5.61	5.75	77.4	76.3	8.1	18.6	4.5	4.5		5.0	
597	WFCZR1	B	MID-FLOOD	22-Aug-07			26.7	5.76	5.81	5.79	75.2	74.7	8.1	18.5	4.1	4.2	3.9	7.5	8.0
598	WFCZR2	S	MID-FLOOD	22-Aug-07			27.5	5.95	5.83		80.5	79.4	8.1	17.4	3.2	3.1		5.0	
599	WFCZR2	M	MID-FLOOD	22-Aug-07	16:23	37.90	27.2	5.82	5.76	5.84	78.7	76.5	8.1	17.6	3.0	2.9		7.0	
600	WFCZR2	B	MID-FLOOD	22-Aug-07			26.8	5.92	5.87	5.90	77.1	76.8	8.1	17.9	4.0	4.0	3.3	8.0	6.7
601	WWA1	S	MID-EBB	24-Aug-07			28.9	5.95	5.92		83.4	82.6	8.2	15.6	3.3	3.4		6.5	
602	WWA1	M	MID-EBB	24-Aug-07	10:54	7.90	28.9	5.73	5.71	5.83	79.4	78.2	8.2	15.8	4.1	4.1		7.0	
603	WWA1	B	MID-EBB	24-Aug-07			29.0	5.65	5.54	5.60	77.4	76.3	8.2	16.2	3.3	3.2	3.5	5.0	6.2
604	WWA2	S	MID-EBB	24-Aug-07			29.0	5.74	5.65		78.7	77.4	8.2	15.6	3.5	3.5		5.0	
605	WWA2	M	MID-EBB	24-Aug-07	10:39	7.70	29.1	5.68	5.63	5.68	77.9	76.4	8.2	15.3	4.2	4.1		5.5	
606	WWA2	B	MID-EBB	24-Aug-07			29.0	5.95	5.83	5.89	81.6	80.7	8.2	15.8	3.3	3.2	3.6	7.5	6.0
607	WWA3	S	MID-EBB	24-Aug-07			28.9	5.46	5.42		77.3	76.5	8.2	15.8	3.1	3.1		5.0	
608	WWA3	M	MID-EBB	24-Aug-07	10:30	7.10	29.0	5.61	5.54	5.51	79.2	78.5	8.2	15.8	2.7	2.9		8.0	
609	WWA3	B	MID-EBB	24-Aug-07			29.0	5.64	5.61	5.63	80.3	79.6	8.2	15.8	2.6	2.9	2.9	5.0	6.0
610	WRA1	S	MID-EBB	24-Aug-07			29.1	5.78	5.74		78.7	76.5	8.2	15.2	2.6	2.4		5.0	
611	WRA1	M	MID-EBB	24-Aug-07	11:08	33.80	28.6	5.59	5.48	5.64	77.2	76.3	8.2	17.6	2.7	2.7		5.5	
612	WRA1	B	MID-EBB	24-Aug-07			27.0	5.54	5.49	5.52	77.5	76.8	8.2	26.6	2.9	2.8	2.7	5.5	5.3
613	WRA2	S	MID-EBB	24-Aug-07			28.7	5.56	5.51		79.4	78.3	8.2	15.6	2.5	2.5		7.0	
614	WRA2	M	MID-EBB	24-Aug-07	11:24	30.50	28.9	5.89	5.80	5.69	81.2	80.7	8.2	15.8	2.6	2.5		5.0	
615	WRA2	B	MID-EBB	24-Aug-07			28.7	5.41	5.33	5.37	78.2	77.4	8.2	15.7	3.1	3.1	2.7	5.0	5.7
616	WRA3	S	MID-EBB	24-Aug-07			28.9	5.73	5.66		79.4	78.7	8.2	15.8	3.3	3.4		6.0	
617	WRA3	M	MID-EBB	24-Aug-07	11:39	36.10	28.9	5.65	5.49	5.63	76.3	75.2	8.2	16.1	4.0	4.1		5.0	

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averag Value
618	WRA3	B	MID-EBB	24-Aug-07			28.6	5.79	5.74	5.77	79.2	78.1	8.2	17.4	4.2	4.2	3.9	5.5	5.5
619	WWFCZ1	S	MID-EBB	24-Aug-07			28.8	5.74	5.69		79.4	76.3	8.2	19.2	2.8	2.9		7.0	
620	WWFCZ1	M	MID-EBB	24-Aug-07	11:34	38.70	28.7	5.58	5.47	5.62	77.2	76.9	8.2	18.7	2.9	3.1		5.5	
621	WWFCZ1	B	MID-EBB	24-Aug-07			28.7	5.62	5.57	5.60	77.3	77.1	8.2	18.6	3.1	3.3	3.0	8.0	6.8
622	WWFCZ2	S	MID-EBB	24-Aug-07			28.8	5.75	5.63		80.5	79.6	8.2	17.8	3.0	2.9		6.5	
623	WWFCZ2	M	MID-EBB	24-Aug-07	11:20	32.40	28.7	5.65	5.63	5.67	77.5	76.2	8.2	18.1	2.5	2.6		5.0	
624	WWFCZ2	B	MID-EBB	24-Aug-07			28.7	5.83	5.72	5.78	75.7	74.8	8.2	17.9	2.9	2.8	2.8	5.0	5.5
625	WFCZR1	S	MID-EBB	24-Aug-07			28.7	5.69	5.61		79.2	78.1	8.2	19.5	2.8	3.0		5.0	
626	WFCZR1	M	MID-EBB	24-Aug-07	11:49	36.50	28.6	5.58	5.43	5.58	78.5	77.3	8.2	18.3	3.0	3.1		8.0	
627	WFCZR1	B	MID-EBB	24-Aug-07			28.5	5.56	5.51	5.54	76.9	75.4	8.2	18.3	3.2	3.3	3.1	5.0	6.0
628	WFCZR2	S	MID-EBB	24-Aug-07			28.7	5.52	5.47		79.8	78.7	8.2	17.8	3.0	2.9		5.0	
629	WFCZR2	M	MID-EBB	24-Aug-07	11:06	38.20	28.6	5.71	5.65	5.59	78.6	77.2	8.2	17.8	3.0	3.0		6.0	
630	WFCZR2	B	MID-EBB	24-Aug-07			28.5	5.63	5.54	5.59	77.9	76.3	8.2	17.6	3.2	3.2	3.0	5.0	5.3
631	WWA1	S	MID-FLOOD	24-Aug-07			29.1	6.82	6.77		98.6	98.4	8.2	17.6	3.5	3.5		5.5	
632	WWA1	M	MID-FLOOD	24-Aug-07	17:35	7.70	28.9	6.55	6.50	6.66	97.2	96.0	8.2	18.7	3.3	3.3		7.5	
633	WWA1	B	MID-FLOOD	24-Aug-07			28.1	6.19	6.10	6.15	92.6	90.8	8.2	21.7	4.2	4.0	3.8	6.5	6.5
634	WWA2	S	MID-FLOOD	24-Aug-07			29.1	6.73	6.62		95.3	94.6	8.2	17.7	2.3	2.3		5.5	
635	WWA2	M	MID-FLOOD	24-Aug-07	17:50	7.50	29.1	6.54	6.37	6.57	97.6	96.1	8.2	18.0	3.0	2.8		5.0	
636	WWA2	B	MID-FLOOD	24-Aug-07			29.1	6.45	6.31	6.38	90.7	88.6	8.2	17.8	3.1	3.1	2.7	5.5	5.3
637	WWA3	S	MID-FLOOD	24-Aug-07			29.1	7.10	6.98		103.1	102.7	8.2	17.7	2.7	2.8		6.5	
638	WWA3	M	MID-FLOOD	24-Aug-07	18:00	6.90	28.4	6.66	6.62	6.34	83.8	83.2	8.2	21.0	2.4	2.4		5.0	
639	WWA3	B	MID-FLOOD	24-Aug-07			28.8	6.20	6.13	6.17	93.1	92.0	8.2	18.8	3.1	3.1	2.7	5.5	5.7
640	WRA1	S	MID-FLOOD	24-Aug-07			29.1	6.61	6.58		98.1	97.8	8.2	18.6	2.5	2.7		5.0	
641	WRA1	M	MID-FLOOD	24-Aug-07	17:22	34.50	27.4	5.70	5.56	6.11	90.0	87.8	8.2	24.2	2.6	2.4		5.0	
642	WRA1	B	MID-FLOOD	24-Aug-07			26.7	5.71	5.68	5.70	86.5	84.1	8.2	27.6	5.8	5.6	3.6	8.0	6.0
643	WRA2	S	MID-FLOOD	24-Aug-07			29.2	6.45	6.31		90.5	88.7	8.2	17.6	2.4	2.4		5.0	
644	WRA2	M	MID-FLOOD	24-Aug-07	17:10	32.40	28.2	5.95	5.90	6.15	90.4	88.8	8.2	21.8	2.8	2.8		7.0	
645	WRA2	B	MID-FLOOD	24-Aug-07			26.5	5.42	5.37	5.40	83.8	80.8	8.2	28.6	5.0	4.9	3.4	6.0	6.0
646	WRA3	S	MID-FLOOD	24-Aug-07			29.3	5.94	5.81		80.3	79.6	8.2	18.0	3.2	3.2		5.5	
647	WRA3	M	MID-FLOOD	24-Aug-07	16:59	37.30	28.9	6.41	6.37	6.13	96.6	95.0	8.2	19.3	3.6	3.7		6.0	
648	WRA3	B	MID-FLOOD	24-Aug-07			26.8	5.87	5.64	5.76	80.5	79.1	8.2	28.6	3.6	3.6	3.5	7.5	6.3
649	WWFCZ1	S	MID-FLOOD	24-Aug-07			29.1	5.78	5.66		80.1	79.5	8.2	19.0	2.6	2.7		7.5	
650	WWFCZ1	M	MID-FLOOD	24-Aug-07	16:13	40.70	27.4	5.53	5.48	5.61	82.6	81.8	8.2	25.1	2.6	2.6		6.5	
651	WWFCZ1	B	MID-FLOOD	24-Aug-07			26.3	5.56	5.43	5.50	82.8	80.3	8.2	29.2	2.6	2.7	2.7	6.5	6.8
652	WWFCZ2	S	MID-FLOOD	24-Aug-07			29.4	6.24	6.13		91.6	91.2	8.2	17.8	2.4	2.4		5.0	
653	WWFCZ2	M	MID-FLOOD	24-Aug-07	16:28	34.70	27.6	6.16	6.07	6.15	87.3	86.1	8.2	24.8	2.5	2.5		5.0	
654	WWFCZ2	B	MID-FLOOD	24-Aug-07			28.4	6.18	6.12	6.15	90.7	89.8	8.2	20.3	2.6	2.6	2.5	5.5	5.2
655	WFCZR1	S	MID-FLOOD	24-Aug-07			29.1	5.35	5.27		78.7	76.5	8.2	18.7	2.1	2.1		5.5	
656	WFCZR1	M	MID-FLOOD	24-Aug-07	16:00	38.60	27.6	5.44	5.39	5.36	77.4	76.9	8.2	25.0	2.4	2.5		6.0	
657	WFCZR1	B	MID-FLOOD	24-Aug-07			27.0	5.58	5.53	5.56	79.2	78.7	8.2	27.8	3.0	3.1	2.5	8.0	6.5
658	WFCZR2	S	MID-FLOOD	24-Aug-07			29.1	6.41	6.40		93.8	93.6	8.2	18.6	2.2	2.6		5.5	
659	WFCZR2	M	MID-FLOOD	24-Aug-07	16:45	38.90	27.8	5.55	5.52	5.97	83.8	82.0	8.2	22.3	2.3	2.4		6.0	
660	WFCZR2	B	MID-FLOOD	24-Aug-07			26.3	5.47	5.38	5.43	82.8	80.0	8.2	29.3	2.3	2.3	2.4	9.0	6.8
661	WWA1	S	MID-EBB	28-Aug-07			28.5	5.86	5.83		88.8	87.2	8.2	24.8	5.8	5.8		10.0	

HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau – Environmental Monitoring & Audit Service
Marine Water Quality Impact Monitoring - August 2007

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Average Value
662	WWA1	M	MID-EBB	28-Aug-07	13:58	5.90	28.4	5.80	5.76	5.81	86.8	86.6	8.2	24.8	6.1	6.2		11.5	
663	WWA1	B	MID-EBB	28-Aug-07			28.4	6.01	5.94	5.98	90.1	89.3	8.2	24.8	5.8	5.9	6.0	14.5	12.0
664	WWA2	S	MID-EBB	28-Aug-07			28.4	5.52	5.50		82.1	81.9	8.2	25.3	5.9	5.9		13.0	
665	WWA2	M	MID-EBB	28-Aug-07	13:44	6.30	28.3	5.54	5.49	5.51	82.6	81.5	8.2	25.6	6.0	5.8		14.0	
666	WWA2	B	MID-EBB	28-Aug-07			28.3	5.67	5.64	5.66	84.3	83.6	8.2	25.3	5.9	5.8	5.9	16.0	14.3
667	WWA3	S	MID-EBB	28-Aug-07			29.0	5.83	5.72		85.7	84.3	8.2	25.3	5.9	5.8		11.5	
668	WWA3	M	MID-EBB	28-Aug-07	13:30	6.00	28.4	5.54	5.43	5.63	79.5	78.3	8.2	25.8	6.1	6.1		13.0	
669	WWA3	B	MID-EBB	28-Aug-07			28.3	5.48	5.46	5.47	79.8	78.6	8.2	25.8	6.1	5.8	6.0	20.5	15.0
670	WRA1	S	MID-EBB	28-Aug-07			29.0	6.01	5.97		91.8	90.7	8.2	23.8	8.0	7.5		8.0	
671	WRA1	M	MID-EBB	28-Aug-07	14:12	32.40	28.7	5.67	5.59	5.81	87.0	85.3	8.2	24.8	9.5	8.8		10.5	
672	WRA1	B	MID-EBB	28-Aug-07			28.6	5.87	5.81	5.84	91.0	90.2	8.2	23.8	8.8	8.6	8.5	10.0	9.5
673	WRA2	S	MID-EBB	28-Aug-07			28.6	6.16	6.07		93.8	93.2	8.2	24.1	7.0	6.8		9.5	
674	WRA2	M	MID-EBB	28-Aug-07	14:25	33.70	28.3	6.06	6.04	6.08	92.0	91.8	8.2	24.7	9.7	9.9		8.5	
675	WRA2	B	MID-EBB	28-Aug-07			28.1	5.66	5.61	5.64	90.6	89.3	8.2	25.2	8.5	8.4	8.4	9.0	9.0
676	WRA3	S	MID-EBB	28-Aug-07			28.5	6.14	6.08		94.8	93.2	8.2	24.8	8.8	8.6		8.0	
677	WRA3	M	MID-EBB	28-Aug-07	14:40	32.90	28.2	5.95	5.86	6.01	91.6	90.2	8.2	24.8	6.4	6.2		8.0	
678	WRA3	B	MID-EBB	28-Aug-07			27.9	5.73	5.66	5.70	91.8	89.8	8.2	25.2	11.0	12.5	8.9	9.0	8.3
679	WWFCZ1	S	MID-EBB	28-Aug-07			28.6	6.28	6.23		97.6	95.8	8.2	24.6	6.1	6.1		11.0	
680	WWFCZ1	M	MID-EBB	28-Aug-07	15:25	35.30	27.9	5.80	5.71	6.01	91.8	89.0	8.2	25.6	5.5	5.3		18.5	
681	WWFCZ1	B	MID-EBB	28-Aug-07			27.4	5.56	5.48	5.52	87.8	84.6	8.2	26.6	5.4	5.4	5.6	12.5	14.0
682	WWFCZ2	S	MID-EBB	28-Aug-07			28.5	6.39	6.34		97.0	96.3	8.2	24.3	5.3	5.3		10.5	
683	WWFCZ2	M	MID-EBB	28-Aug-07	15:12	38.20	27.4	5.56	5.48	5.94	89.6	86.6	8.2	26.6	6.2	6.0		17.5	
684	WWFCZ2	B	MID-EBB	28-Aug-07			27.4	5.76	5.66	5.71	90.3	88.2	8.2	24.8	6.0	5.9	5.8	15.0	14.3
685	WFCZR1	S	MID-EBB	28-Aug-07			28.0	6.15	6.03		97.2	95.3	8.2	25.0	5.0	4.8		9.5	
686	WFCZR1	M	MID-EBB	28-Aug-07	15:40	35.60	27.8	5.91	5.83	5.98	92.0	91.3	8.2	25.2	6.1	6.1		16.0	
687	WFCZR1	B	MID-EBB	28-Aug-07			27.6	5.91	5.83	5.87	91.8	90.2	8.2	25.6	7.4	7.4	6.1	15.5	13.7
688	WFCZR2	S	MID-EBB	28-Aug-07			28.5	6.19	6.09		95.6	94.6	8.2	24.1	5.3	5.3		11.5	
689	WFCZR2	M	MID-EBB	28-Aug-07	14:57	42.10	27.9	5.72	5.65	5.91	92.8	90.1	8.2	25.3	7.8	7.8		12.5	
690	WFCZR2	B	MID-EBB	28-Aug-07			27.3	5.56	5.48	5.52	92.0	89.8	8.2	26.8	8.1	8.2	7.1	17.0	13.7
691	WWA1	S	MID-FLOOD	28-Aug-07			26.6	5.96	5.83		79.2	78.7	8.2	28.3	5.7	5.6		16.5	
692	WWA1	M	MID-FLOOD	28-Aug-07	9:27	7.70	26.3	5.85	5.77	5.85	76.3	75.1	8.2	29.6	6.0	5.9		14.0	
693	WWA1	B	MID-FLOOD	28-Aug-07			26.3	5.54	5.51	5.53	74.2	73.7	8.2	29.6	6.0	6.1	5.9	18.0	16.2
694	WWA2	S	MID-FLOOD	28-Aug-07			26.5	5.89	5.75		78.7	76.5	8.2	29.3	5.9	5.8		15.0	
695	WWA2	M	MID-FLOOD	28-Aug-07	9:13	6.60	26.4	5.61	5.54	5.70	73.2	71.6	8.2	29.3	5.6	5.5		12.0	
696	WWA2	B	MID-FLOOD	28-Aug-07			26.4	5.66	5.62	5.64	73.4	73.7	8.2	29.4	6.0	6.0	5.8	9.0	12.0
697	WWA3	S	MID-FLOOD	28-Aug-07			26.4	6.21	6.03		98.1	97.5	8.2	29.6	5.9	5.7		13.0	
698	WWA3	M	MID-FLOOD	28-Aug-07	9:00	6.40	26.4	5.83	5.76	5.96	75.2	74.9	8.2	29.6	6.0	5.8		11.0	
699	WWA3	B	MID-FLOOD	28-Aug-07			26.4	5.58	5.43	5.51	73.2	71.9	8.2	29.2	4.8	4.7	5.5	13.0	12.3
700	WRA1	S	MID-FLOOD	28-Aug-07			26.2	5.39	5.44		75.8	74.7	8.2	29.6	6.1	6.0		14.0	
701	WRA1	M	MID-FLOOD	28-Aug-07	9:40	34.70	26.0	5.73	5.68	5.56	77.1	76.5	8.2	29.8	7.2	7.1		18.0	
702	WRA1	B	MID-FLOOD	28-Aug-07			26.0	5.77	5.72	5.75	76.9	76.3	8.2	30.1	6.0	5.9	6.4	26.0	19.3
703	WRA2	S	MID-FLOOD	28-Aug-07			26.1	5.76	5.61		77.1	76.5	8.2	29.6	5.5	5.5		16.0	
704	WRA2	M	MID-FLOOD	28-Aug-07	9:57	33.20	25.9	5.65	5.63	5.65	76.2	75.7	8.2	30.0	6.0	6.1		33.5	
705	WRA2	B	MID-FLOOD	28-Aug-07			25.9	5.92	5.81	5.87	77.3	76.5	8.2	30.2	7.1	7.2	6.2	30.0	26.5

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
706	WRA3	S	MID-FLOOD	28-Aug-07			26.2	5.63	5.55		78.5	77.1	8.2	29.2	6.2	6.2		20.5	
707	WRA3	M	MID-FLOOD	28-Aug-07	10:09	30.20	25.8	5.57	5.48	5.55	77.2	76.5	8.2	30.1	5.9	5.7		22.0	
708	WRA3	B	MID-FLOOD	28-Aug-07			25.8	5.71	5.66	5.69	75.4	74.9	8.2	30.0	6.0	5.9	6.0	34.5	25.7
709	WWFCZ1	S	MID-FLOOD	28-Aug-07			26.5	6.56	6.43		90.0	88.2	8.2	28.3	6.1	6.1		10.5	
710	WWFCZ1	M	MID-FLOOD	28-Aug-07	10:52	36.50	26.4	5.63	5.59	6.05	86.0	84.2	8.2	28.6	6.0	5.8		10.0	
711	WWFCZ1	B	MID-FLOOD	28-Aug-07			26.3	5.61	5.53	5.57	85.4	83.7	8.2	29.0	5.9	5.8	6.0	12.0	10.8
712	WWFCZ2	S	MID-FLOOD	28-Aug-07			26.5	5.41	5.38		86.1	85.7	8.2	28.2	5.5	5.6		16.0	
713	WWFCZ2	M	MID-FLOOD	28-Aug-07	10:38	38.80	26.2	5.49	5.37	5.41	86.9	85.3	8.2	29.3	5.8	5.7		9.0	
714	WWFCZ2	B	MID-FLOOD	28-Aug-07			26.5	5.83	5.79	5.81	88.2	87.3	8.2	28.6	5.8	5.8	5.7	11.0	12.0
715	WFCZR1	S	MID-FLOOD	28-Aug-07			26.5	5.98	5.86		92.5	91.3	8.2	28.6	5.2	5.4		16.0	
716	WFCZR1	M	MID-FLOOD	28-Aug-07	11:15	36.90	26.0	5.74	5.69	5.82	88.1	87.5	8.2	30.0	5.5	5.6		19.0	
717	WFCZR1	B	MID-FLOOD	28-Aug-07			25.9	5.61	5.53	5.57	85.4	83.2	8.2	30.0	6.0	6.1	5.6	20.5	18.5
718	WFCZR2	S	MID-FLOOD	28-Aug-07			26.6	5.75	5.61		86.5	84.9	8.2	28.1	5.4	5.4		9.0	
719	WFCZR2	M	MID-FLOOD	28-Aug-07	10:24	44.10	26.3	5.93	5.87	5.79	91.2	89.6	8.2	28.2	5.6	5.6		9.5	
720	WFCZR2	B	MID-FLOOD	28-Aug-07			26.2	5.57	5.44	5.51	84.6	83.1	8.2	29.6	6.0	6.1	5.7	11.0	9.8
721	WWA1	S	MID-EBB	30-Aug-07			28.9	5.61	5.52		87.1	86.2	8.2	25.6	6.6	6.5		14.5	
722	WWA1	M	MID-EBB	30-Aug-07	15:57	7.50	28.4	5.57	5.53	5.56	86.1	85.4	8.2	25.3	7.5	7.5		16.5	
723	WWA1	B	MID-EBB	30-Aug-07			28.3	5.59	5.56	5.58	87.1	86.5	8.2	26.0	6.2	6.0	6.7	11.5	14.2
724	WWA2	S	MID-EBB	30-Aug-07			28.4	5.65	5.59		87.3	86.3	8.2	24.1	6.1	6.0		14.5	
725	WWA2	M	MID-EBB	30-Aug-07	15:43	6.40	28.2	5.73	5.61	5.65	87.5	86.5	8.2	25.8	8.4	8.0		21.0	
726	WWA2	B	MID-EBB	30-Aug-07			28.4	5.53	5.47	5.50	86.3	86.1	8.2	24.3	6.8	6.7	7.0	17.0	17.5
727	WWA3	S	MID-EBB	30-Aug-07			28.5	6.11	6.01		97.7	95.3	8.2	24.1	8.5	8.7		18.5	
728	WWA3	M	MID-EBB	30-Aug-07	15:30	6.20	28.5	5.87	5.80	5.95	92.1	90.2	8.2	24.2	8.5	8.4		24.0	
729	WWA3	B	MID-EBB	30-Aug-07			28.4	6.02	5.93	5.98	94.1	93.8	8.2	24.1	6.9	6.8	8.0	19.0	20.5
730	WRA1	S	MID-EBB	30-Aug-07			29.0	5.61	5.54		89.7	88.3	8.2	22.3	4.7	4.7		8.5	
731	WRA1	M	MID-EBB	30-Aug-07	16:12	33.10	28.6	5.91	5.82	5.72	93.8	92.1	8.2	23.3	6.9	6.9		14.0	
732	WRA1	B	MID-EBB	30-Aug-07			27.6	5.67	5.57	5.62	91.2	89.0	8.2	26.3	8.7	8.9	6.8	15.5	12.7
733	WRA2	S	MID-EBB	30-Aug-07			28.9	5.92	5.82		95.2	93.3	8.2	22.3	5.0	4.7		9.5	
734	WRA2	M	MID-EBB	30-Aug-07	16:28	32.60	28.1	5.61	5.42	5.69	92.0	89.3	8.2	25.2	6.1	6.2		14.0	
735	WRA2	B	MID-EBB	30-Aug-07			27.6	5.81	5.74	5.78	89.1	87.3	8.2	26.0	6.7	6.5	5.9	11.5	11.7
736	WRA3	S	MID-EBB	30-Aug-07			28.7	5.91	5.83		92.3	90.5	8.2	23.0	4.7	4.6		12.5	
737	WRA3	M	MID-EBB	30-Aug-07	16:43	29.50	28.4	5.80	5.72	5.82	91.3	90.2	8.2	21.3	6.9	6.7		11.0	
738	WRA3	B	MID-EBB	30-Aug-07			27.7	5.91	5.88	5.90	92.3	90.0	8.2	20.7	7.0	6.8	6.1	11.5	11.7
739	WWFCZ1	S	MID-EBB	30-Aug-07			28.4	6.00	5.83		94.3	92.0	8.2	22.3	2.8	2.8		14.5	
740	WWFCZ1	M	MID-EBB	30-Aug-07	17:23	35.10	28.0	5.64	5.52	5.75	92.0	89.5	8.2	24.3	5.8	5.7		11.5	
741	WWFCZ1	B	MID-EBB	30-Aug-07			27.8	5.61	5.58	5.60	91.3	89.5	8.2	24.0	5.7	5.7	4.8	14.5	13.5
742	WWFCZ2	S	MID-EBB	30-Aug-07			29.0	5.80	5.66		94.2	91.3	8.2	22.2	4.9	4.8		6.0	
743	WWFCZ2	M	MID-EBB	30-Aug-07	17:10	37.60	28.3	5.62	5.53	5.65	90.1	89.5	8.2	23.0	6.3	6.1		16.5	
744	WWFCZ2	B	MID-EBB	30-Aug-07			27.8	5.73	5.62	5.68	91.1	89.2	8.2	24.3	6.2	6.2	5.7	11.5	11.3
745	WFCZR1	S	MID-EBB	30-Aug-07			28.4	5.92	5.86		92.3	89.0	8.2	23.1	5.6	5.5		9.0	
746	WFCZR1	M	MID-EBB	30-Aug-07	17:39	35.40	28.4	5.81	5.72	5.83	92.2	90.1	8.2	23.3	6.1	6.4		10.5	
747	WFCZR1	B	MID-EBB	30-Aug-07			28.3	5.53	5.50	5.52	91.5	88.7	8.2	23.6	5.5	5.5	5.8	9.0	9.5
748	WFCZR2	S	MID-EBB	30-Aug-07			29.1	5.73	5.62		93.1	90.2	8.2	22.0	3.9	3.8		10.0	
749	WFCZR2	M	MID-EBB	30-Aug-07	16:58	42.30	28.4	5.70	5.53	5.65	91.0	89.0	8.2	23.3	5.8	5.7		8.5	

HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau – Environmental Monitoring & Audit Service
Marine Water Quality Impact Monitoring - August 2007

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
750	WFCZR2	B	MID-EBB	30-Aug-07			28.0	5.57	5.49	5.53	89.3	88.2	8.2	24.5	6.8	6.7	5.4	12.5	10.3
751	WWA1	S	MID-FLOOD	30-Aug-07			27.0	5.84	5.77		88.3	85.5	8.2	27.0	6.6	6.5		12.5	
752	WWA1	M	MID-FLOOD	30-Aug-07	11:10	7.60	26.8	5.76	5.61	5.75	90.5	87.2	8.2	28.9	6.2	6.0		13.0	
753	WWA1	B	MID-FLOOD	30-Aug-07			26.7	5.54	5.51	5.53	83.6	82.1	8.2	28.5	6.1	6.3	6.3	14.0	13.2
754	WWA2	S	MID-FLOOD	30-Aug-07			27.0	5.79	5.74		93.6	90.6	8.2	28.0	6.2	6.0		10.0	
755	WWA2	M	MID-FLOOD	30-Aug-07	11:23	6.80	26.9	5.56	5.51	5.65	93.3	90.5	8.2	28.1	6.6	7.0		18.0	
756	WWA2	B	MID-FLOOD	30-Aug-07			26.9	5.42	5.38	5.40	89.5	88.3	8.2	28.2	6.1	6.2	6.4	14.0	14.0
757	WWA3	S	MID-FLOOD	30-Aug-07			27.0	5.64	5.51		89.7	88.5	8.2	27.5	6.3	6.2		14.5	
758	WWA3	M	MID-FLOOD	30-Aug-07	11:39	6.70	26.8	5.57	5.49	5.55	90.2	87.3	8.2	28.2	6.2	6.1		12.5	
759	WWA3	B	MID-FLOOD	30-Aug-07			27.1	5.61	5.54	5.58	91.5	88.3	8.2	26.3	6.8	6.8	6.4	12.0	13.0
760	WRA1	S	MID-FLOOD	30-Aug-07			27.0	5.84	5.75		93.2	90.1	8.2	27.4	6.5	6.5		13.0	
761	WRA1	M	MID-FLOOD	30-Aug-07	10:50	34.90	27.1	5.63	5.55	5.69	92.4	89.1	8.2	27.8	7.1	7.2		11.5	
762	WRA1	B	MID-FLOOD	30-Aug-07			27.0	5.79	5.73	5.76	91.8	90.5	8.2	27.6	8.0	7.9	7.2	11.0	11.8
763	WRA2	S	MID-FLOOD	30-Aug-07			27.6	5.35	5.34		87.8	85.6	8.2	23.3	5.9	5.7		7.5	
764	WRA2	M	MID-FLOOD	30-Aug-07	10:36	33.80	27.1	5.49	5.43	5.40	94.8	92.1	8.2	28.0	6.2	6.2		12.5	
765	WRA2	B	MID-FLOOD	30-Aug-07			26.8	5.67	5.63	5.65	93.6	89.5	8.2	28.6	6.9	6.9	6.3	12.5	10.8
766	WRA3	S	MID-FLOOD	30-Aug-07			27.1	5.82	5.73		91.6	87.8	8.2	27.8	5.5	5.2		10.5	
767	WRA3	M	MID-FLOOD	30-Aug-07	10:25	31.20	27.0	5.73	5.65	5.73	92.1	88.6	8.2	28.1	6.8	6.6		9.5	
768	WRA3	B	MID-FLOOD	30-Aug-07			26.6	5.53	5.39	5.46	91.5	88.3	8.2	29.1	7.0	6.9	6.3	11.0	10.3
769	WWFCZ1	S	MID-FLOOD	30-Aug-07			27.0	6.05	5.87		90.3	88.7	8.2	28.5	3.1	3.3		12.0	
770	WWFCZ1	M	MID-FLOOD	30-Aug-07	9:45	37.50	26.8	5.73	5.65	5.83	88.3	86.6	8.2	28.2	4.9	5.0		18.0	
771	WWFCZ1	B	MID-FLOOD	30-Aug-07			26.7	5.69	5.63	5.66	85.6	84.3	8.2	26.3	5.7	5.5	4.6	19.0	16.3
772	WWFCZ2	S	MID-FLOOD	30-Aug-07			27.4	5.69	5.62		83.6	80.8	8.2	26.2	5.2	5.4		11.5	
773	WWFCZ2	M	MID-FLOOD	30-Aug-07	9:58	39.20	27.0	5.52	5.48	5.58	86.6	84.2	8.2	27.6	6.0	5.9		15.0	
774	WWFCZ2	B	MID-FLOOD	30-Aug-07			26.9	5.59	5.58	5.59	85.3	82.8	8.2	28.3	5.6	5.6	5.6	25.0	17.2
775	WFCZR1	S	MID-FLOOD	30-Aug-07			27.7	5.96	5.41		87.8	85.3	8.2	25.6	5.9	5.8		12.0	
776	WFCZR1	M	MID-FLOOD	30-Aug-07	9:30	37.10	27.0	5.57	5.49	5.61	86.1	84.0	8.2	28.1	6.0	6.1		20.0	
777	WFCZR1	B	MID-FLOOD	30-Aug-07			26.7	5.55	5.48	5.52	90.6	88.0	8.2	28.0	6.0	5.9	5.9	18.0	16.7
778	WFCZR2	S	MID-FLOOD	30-Aug-07			27.6	5.62	5.57		92.8	89.2	8.2	25.8	4.2	4.3		11.0	
779	WFCZR2	M	MID-FLOOD	30-Aug-07	10:12	42.10	27.1	5.51	5.49	5.55	90.6	88.2	8.2	27.2	5.0	4.8		15.0	
780	WFCZR2	B	MID-FLOOD	30-Aug-07			26.7	5.58	5.53	5.56	89.0	86.6	8.2	25.3	6.2	6.1	5.1	16.0	14.0

Appendix E

Investigation summary on marine water quality exceedances

Contract No. HY/2005/06
Castle Peak Road Improvement - West of Tsing Lung Tau (EP No. EP-219/2005)
Marine Water Exceedance Investigation Summary

Date	Tide	Location	Exceedance of Monitoring Data										ET's investigation	CT's action	Closing Date	Remark
			DO (mg/L)				Tby (NTU)			SS (mg/L)						
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact Station				
1-Aug-07	Mid-ebb	WWA1	-	-	-	-	-	-	-	13.0	11.3	25.0	An excavator was working on the stockpile at Seawall B during monitoring period and small amount of muddy water was leaked from the silt curtain and observed by the ET auditor on 01 August 2007. The exceedances of SS recorded on 30 July and 01 August 2007 were likely attributed to construction works of the Project.	The Contractor has repaired the silt curtain on 02 August 2007. Exceedances were not recorded in subsequent monitoring on 03 August 2007 at WWA1, WWA2 and WWA3.	10-Aug-07	Refer to ET's field record & CT's daily records.
1-Aug-07	Mid-ebb	WWA2	-	-	-	-	-	-	-	13.0	13.3	16.3	Ditto	Ditto	Ditto	Ditto
3-Aug-07	Mid-ebb	WWFCZ1	-	-	-	-	-	-	-	13.0	10.0	14.7	Exceedance was not recorded at the monitoring WWA1, WWA2 and WWA3, which are closer to the site, on the same tide and same day. The exceedances were not likely related to construction works of the Project and likely attributed to natural variation of marine water.	No action	10-Aug-07	Refer to ET's field record & CT's daily records.
3-Aug-07	Mid-flood	WWFCZ1	-	-	-	-	-	-	-	17.0	15.5	17.7	Ditto	Ditto	Ditto	Ditto
28-Aug-07	Mid-ebb	WWA2	-	-	-	-	-	-	-	13.0	9.0	14.3	Seepage of muddy water from silt curtain at Seawall B was observed by ET auditor on 24 August 2007. The exceedances were likely due to the reduced enclosed area of the silt curtain that was incapable to prevent dispersion of muddy water from the stockpile. The contractor is recommended to reinstate the silt curtain to its original position and to remove the stockpile at Seawall B promptly.	CT advised that the stockpile would be removed in early September and would closely monitor the function of silt curtain.	On-going	Refer to ET's field record & CT's daily records.
28-Aug-07	Mid-ebb	WWA3	-	-	-	-	-	-	-	13.0	8.3	15.0	Ditto	Ditto	Ditto	Ditto
28-Aug-07	Mid-ebb	WWFCZ1	-	-	-	-	-	-	-	13.0	13.7	14.0	Ditto	Ditto	Ditto	Ditto
28-Aug-07	Mid-ebb	WWFCZ2	-	-	-	-	-	-	-	13.0	13.7	14.3	Ditto	Ditto	Ditto	Ditto

Contract No. HY/2005/06
Castle Peak Road Improvement - West of Tsing Lung Tau (EP No. EP-219/2005)
Marine Water Exceedance Investigation Summary

Date	Tide	Location	Exceedance of Monitoring Data										ET's investigation	CT's action	Closing Date	Remark
			DO (mg/L)				Tby (NTU)			SS (mg/L)						
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact Station				
30-Aug-07	Mid-ebb	WWA1	-	-	-	-	-	-	-	13.0	12.7	14.2	Ditto	Ditto	Ditto	Ditto
30-Aug-07	Mid-ebb	WWA2	-	-	-	-	6.5	5.9	7.0	13.0	11.7	17.5	Ditto	Ditto	Ditto	Ditto
30-Aug-07	Mid-ebb	WWA3	-	-	-	-	6.5	6.1	8.0	13.0	11.7	20.5	Ditto	Ditto	Ditto	Ditto
30-Aug-07	Mid-ebb	WWFCZ1	-	-	-	-	-	-	-	13.0	9.5	13.5	Ditto	Ditto	Ditto	Ditto
30-Aug-07	Mid-flood	WWFCZ2	-	-	-	-	-	-	-	17.0	14.0	17.2	Ditto	Ditto	Ditto	Ditto

Appendix F

Silt curtain daily inpsection record

(17)

Project : Castle Peak Road Improvement

Seawall B Silt Curtain Daily Inspection Record

Date	Condition	Action
30/7/2007 (Mon)	Little muddy water observed.	Arrange to fix the silt curtain on 02/08/2007.
31/7/2007 (Tue)	No muddy water observed.	N/A
01/8/2007 (Wed)	No muddy water observed.	N/A
02/8/2007 (Thu)	Muddy water was observed inside silt curtain.	Damaged silt curtain has been fixed.
03/8/2007 (Fri)	No muddy water observed.	Installation of silt curtain at Seawall A.
04/8/2007 (Sat)	No muddy water observed.	N/A
05/8/2007 (SUN)	Sunday	Sunday

Inspected by Chun Wo: Gary Lam Date: 01/08/07

Inspected by MHJV: MR MOK Date: 01/08/07

(18)

Project : Castle Peak Road Improvement

Seawall B Silt Curtain Daily Inspection Record

Date	Condition	Action
06/8/2007 (Mon)	No muddy water observed.	N/A
07/8/2007 (Tue)	No muddy water observed.	N/A
08/8/2007 (Wed)	No muddy water observed.	N/A
09/8/2007 (Thu)	No muddy water observed.	N/A
10/8/2007 (Fri)	No muddy water observed.	N/A
11/8/2007 (Sat)	No muddy water observed.	N/A
12/8/2007 (SUN)	Sunday	Sunday

Inspected by Chun Wo: Gary Lam Date: 14/08/07

Inspected by MHJV: MR MOK Date: 14/8/07

Project : Castle Peak Road Improvement

Seawall B Silt Curtain Daily Inspection Record

Date	Condition	Action
13/8/2007 (Mon)	No muddy water observed.	N/A
14/8/2007 (Tue)	No muddy water observed.	N/A
15/8/2007 (Wed)	No muddy water observed.	N/A
16/8/2007 (Thu)	No muddy water observed.	N/A
17/8/2007 (Fri)	No muddy water observed.	N/A
18/8/2007 (Sat)	No muddy water observed.	N/A
19/8/2007 (SUN)	Sunday	Sunday

Inspected by Chun Wo: Gary Lam
Date:

Inspected by MHJV: MR MOK
Date: 12-9-07

Project : Castle Peak Road Improvement

Seawall B Silt Curtain Daily Inspection Record

Date	Condition	Action
20/8/2007 (Mon)	No muddy water observed.	N/A
21/8/2007 (Tue)	No muddy water observed.	N/A
22/8/2007 (Wed)	No muddy water observed.	N/A
23/8/2007 (Thu)	No muddy water observed.	N/A
24/8/2007 (Fri)	No muddy water observed.	N/A
25/8/2007 (Sat)	Little muddy water observed.	Arrange to fix the silt curtain on 27/08/2007.
26/8/2007 (SUN)	Sunday	Sunday

Inspected by Chun Wo: Gary Lam
Date:

Inspected by MHJV: MR MOK
Date: 12-9-07

(21)

Project : Castle Peak Road Improvement

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Seawall B Silt Curtain Daily Inspection Record

Date	Condition	Action
27/8/2007 (Mon)	No muddy water observed.	N/A
28/8/2007 (Tue)	No muddy water observed.	N/A
29/8/2007 (Wed)	No muddy water observed.	N/A
30/8/2007 (Thu)	No muddy water observed.	N/A
31/8/2007 (Fri)	No muddy water observed.	N/A
01/9/2007 (Sat)	No muddy water observed..	N/A
02/9/2007 (SUN)	Sunday	Sunday

Inspected by Chun Wo: Gary Lam

Date: _____

Inspected by MHJV: MR MOK

Date: 12-9-07