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)

April 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) April 2007

May 2007

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

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Job number 24583

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By Fax (2492 6201) and Post

Meinhardt Halcrow JV
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Hong Kong

Attn : Mr. Michael S Harfoot

15 May 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) – April 2007

We refer to the Monthly EM&A Report for Reclamation Works (EP No. EP-219/2005) – April 2007 received via email on 11 May 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 14 May 2007, the Monthly EM&A Report for Reclamation Works (EP No. EP-219/2005) – April 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
Maunsell Environmental
Management Consultants 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)

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Executive Summary

This is the fourteenth monthly environmental monitoring and audit (EM&A) report presenting the progress of environmental monitoring and audit works for the reporting period between 01 and 30 April 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 5.43 mg/L was recorded at WWA1 on 23 April 2007 and the lowest DO level for bottom position of 5.35 mg/L was recorded at WWA3 on 04 April 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 12.7 Nephelometric Turbidity Unit (NTU) was recorded at WWA2 on 20 April 2007. There were 1 exceedance of Tby Baseline Check Criteria on 04 April 2007 and 3 exceedances of Tby Limit Level on 04 and 20 April 2007 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 18.5 mg/L were recorded at WWA1 on 18 April 2007. There were 6 exceedances of SS Baseline Check Criteria on 04, 10, 18 and 20 April 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 related to the Project and due to deficiencies of silt curtain and seepage of muddy water from Slope 82, except for the exceedance recorded on 10 April 2007.

Summary of Mid-Flood Tide

The lowest DO level for surface & middle position of 5.36 mg/L was recorded at WWA1 on 04 April 2007 and the lowest level for bottom position of 5.31 mg/L was recorded at WWA2 on 10 April 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 7.0 NTU was recorded at WWA3 on 04 April 2007. There was 1 exceedance of Tby Baseline Check Criteria on 04 April 2007 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 17.3 mg/L was recorded at WWA3 on 02 April 2007. There was 1 exceedance of SS Baseline Check Criteria on 02 April 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 related to deficiencies of silt curtain and seepage of muddy water from Slope 82.

Environmental Auditing

A total of 4 environmental site audits were conducted in April 2007 CT was recommended to improve in the following areas:

Air Quality: Frequent water spraying over unpaved area and during rock breaking works; covering of exposed slopes, provision of wheel washing facility;

Water Quality: Repairing of broken silt curtain and suspension of construction works at Seawall B;

Waste Management: Frequent clearing of construction waste; provision of driptrays to oil drums.

Waste Disposal

A total of 19.45 tonnes of Construction & Demolition (C&D) waste and 13,083.4 tonnes of C&D materials (1,801.4 tonnes transported by trucks and 11,282 tonnes transported by barge) were disposed of at WENT Landfill and Public Filling Reception Facility at Tuen Mun Area 38 during reporting period. No chemical waste was disposed of during the reporting period.

Complaint Records

EPD conducted a site inspection on 12 April 2007 and observed environmental deficiencies in the following areas:

(1) Silt curtain was not properly provided for construction works at Seawall B and

(2) Dust suppression measures were not provided for rock breaking works.

A warning, in a form of yellow form, was given to the CT. Upon receiving warnings from EPD, the CT mobilized workers to install a new silt curtain which was completed on 14 April 2007, cover the stockpile on the seaside, conduct daily inspection of the silt curtain and provide regular water spraying during rock breaking works.

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. Almost all the exceedances were likely attributed to the construction activities of the Project.

The CT had installed a new silt curtain around the stockpile at Seawall B on 14 April 2007. The water quality was improved on the subsequent monitoring days (14 and 16 April 2007). The bottom of the silt curtain, however, was observed broken on 18 and 20 April 2007 and mud plume was dispersed out of the silt curtain.

CT was advised to (1) repair the silt curtain promptly; (2) suspend all construction works at Seawall B until completion of repairing of silt curtain; and (3) cover the stockpile at Seawall B by tarpaulin to prevent muddy runoff during raining.

During the reporting period, CT has taken the following measures:

- All excavation works and removal of stockpile at the Seawall B were suspended;
- Repairing of silt curtain was completed on 28 April 2007;
- The stockpile was covered by tarpaulin on the seaside in late April 2007; and
- The performance of the silt curtain was inspected and recorded on a daily basis.

Notification of Summons and Successful Prosecution

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

Environmental Licences

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

1 Introduction

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

1.1 Project Background

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

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

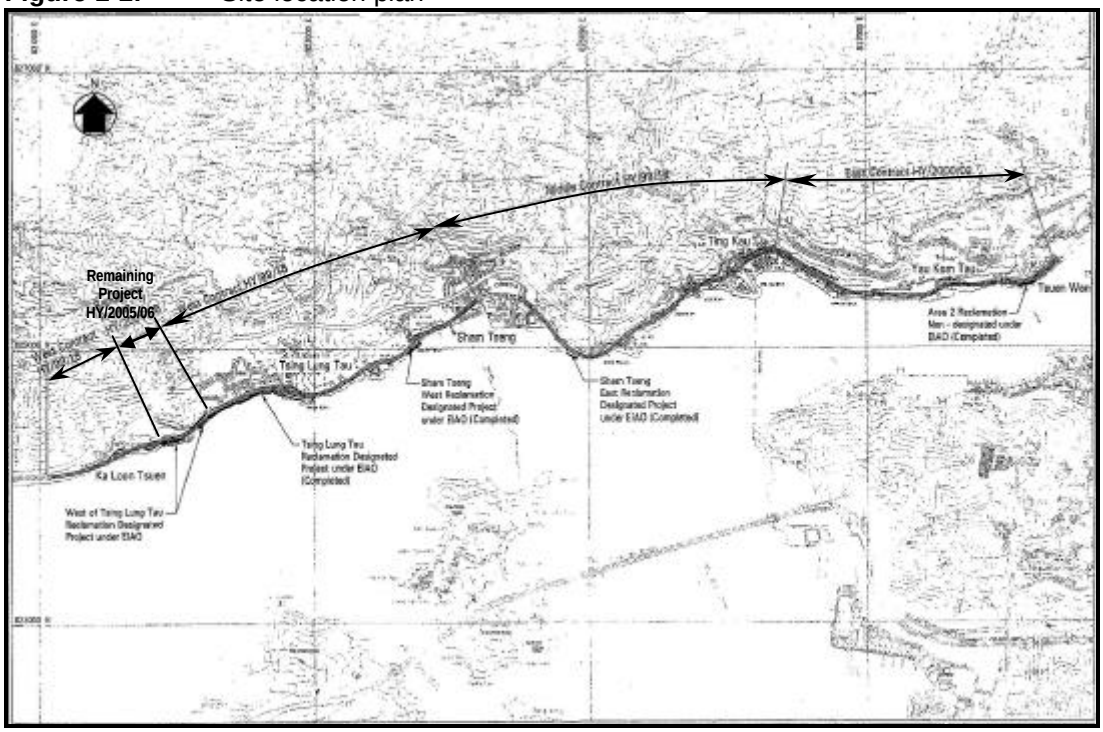
Following subsequent developments, the Route 10 project was placed under review, and Government therefore decided to implement the excised section of CPR (the Remaining Project) under the original CPR Improvement project. **Figure 1-1** shows the site location plan.

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

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

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

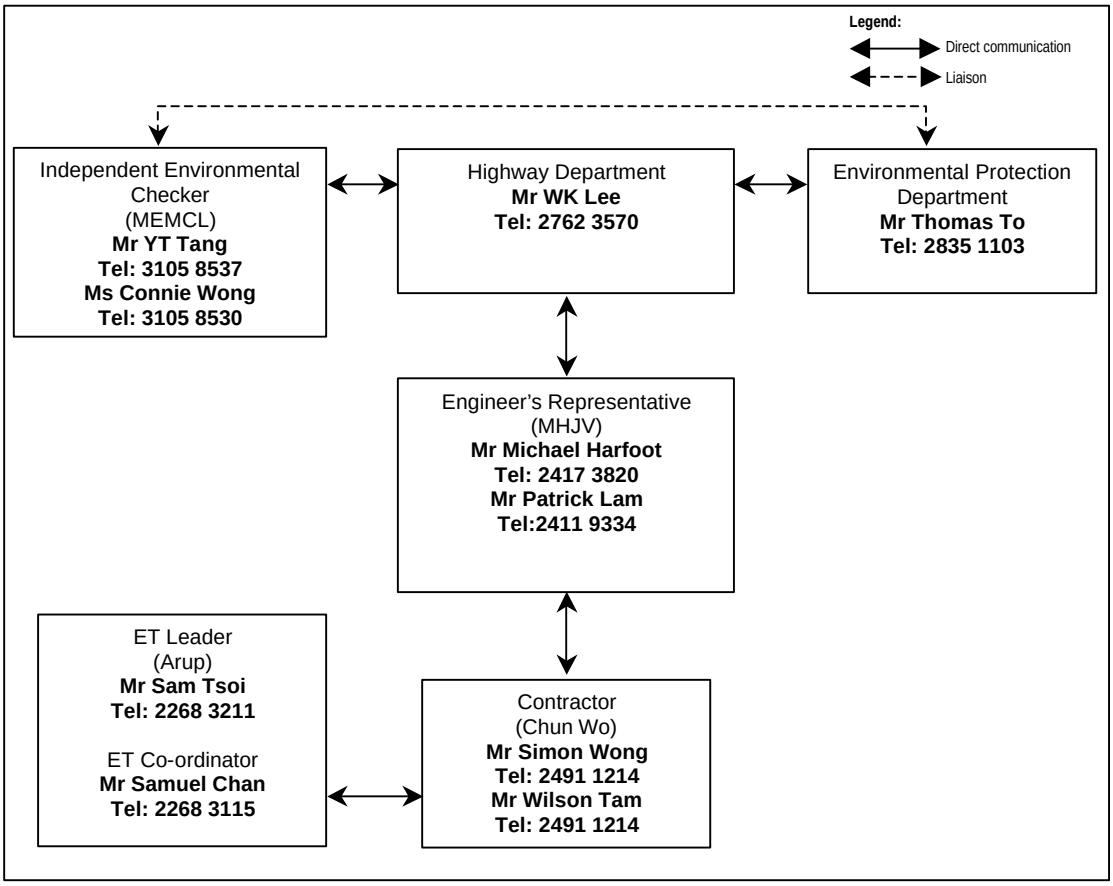
Figure 1-1: Site location plan



1.2 Project Organisation

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

Figure 1-2: Project organisation chart



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

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

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

The duties of IEC include the followings:

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

1.3 Impact EM&A Requirements

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

1.4 Purpose of the Report

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

This is the fourteenth 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 April 2007 to 30 April 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 April 2007 included:

- Removal of stockpile at Seawall B; and
- Soil nailing works and construction of footing at Slope 82.

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 April 2007 and the tentative schedule for May 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

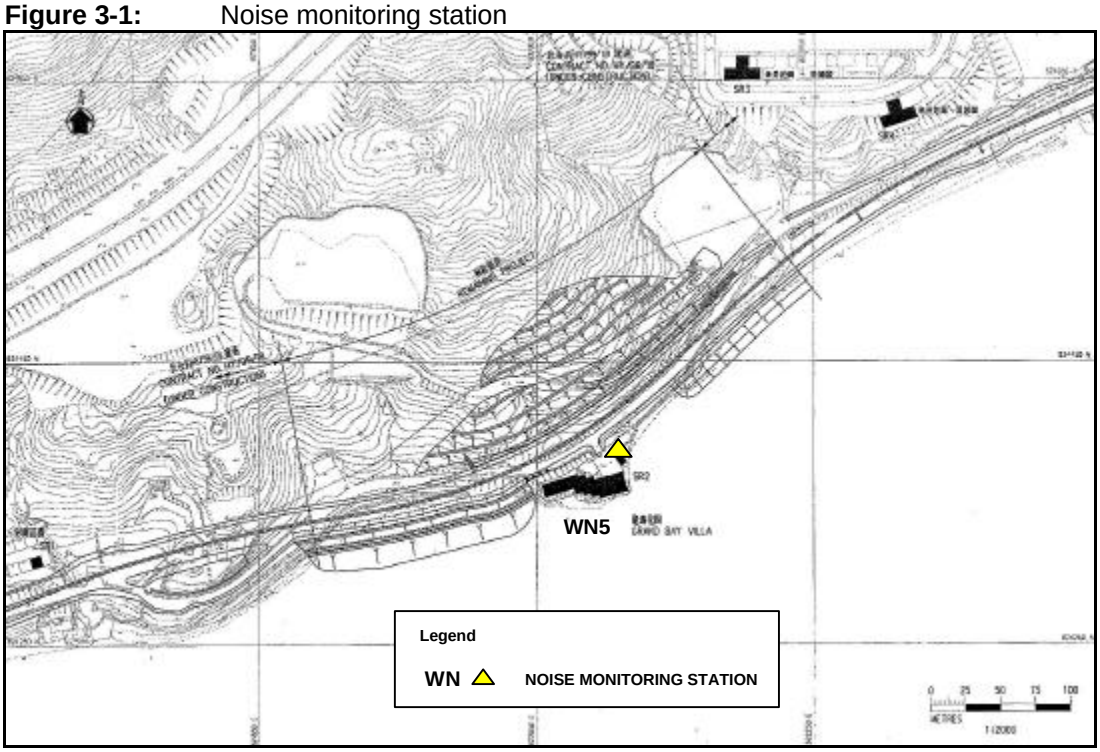
Noise monitoring will be conducted at one designated location as shown in **Figure 3-1**. The details of the noise monitoring location are given in **Table 3-2**. The measurements will be taken at a position 1m from the exterior of building façade and at a position of 1.2m above ground.

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.

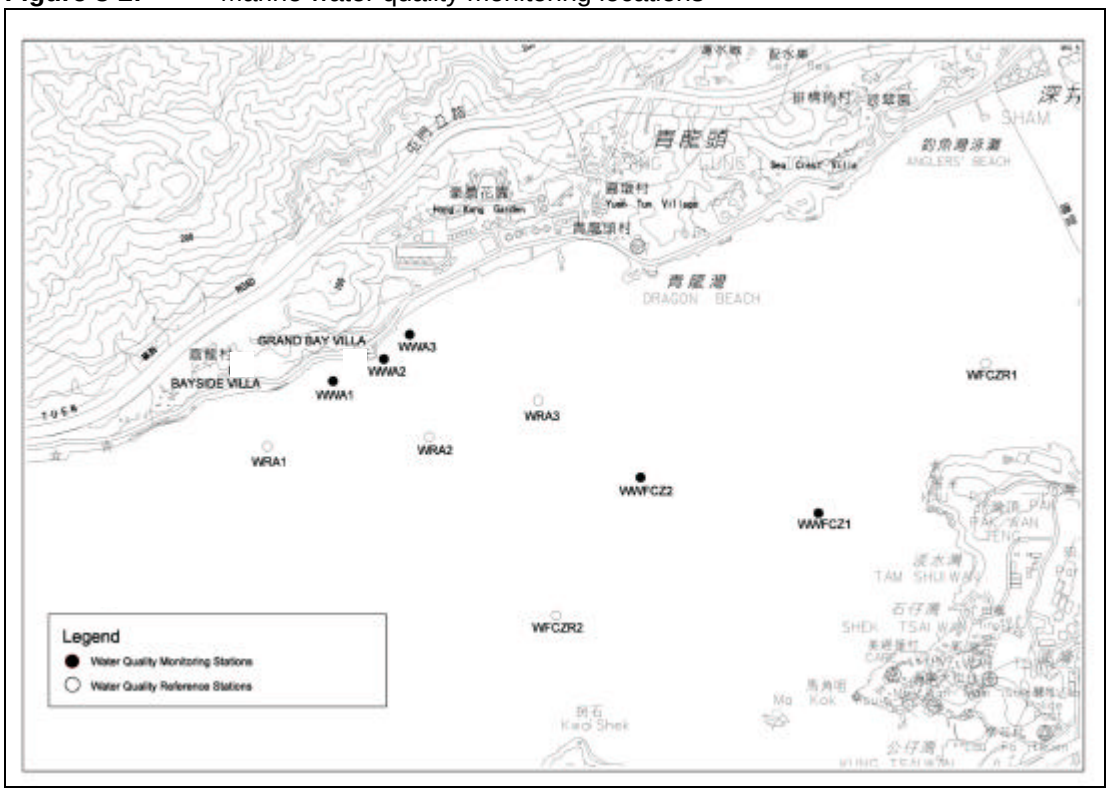
3.2.3 Monitoring Locations

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.

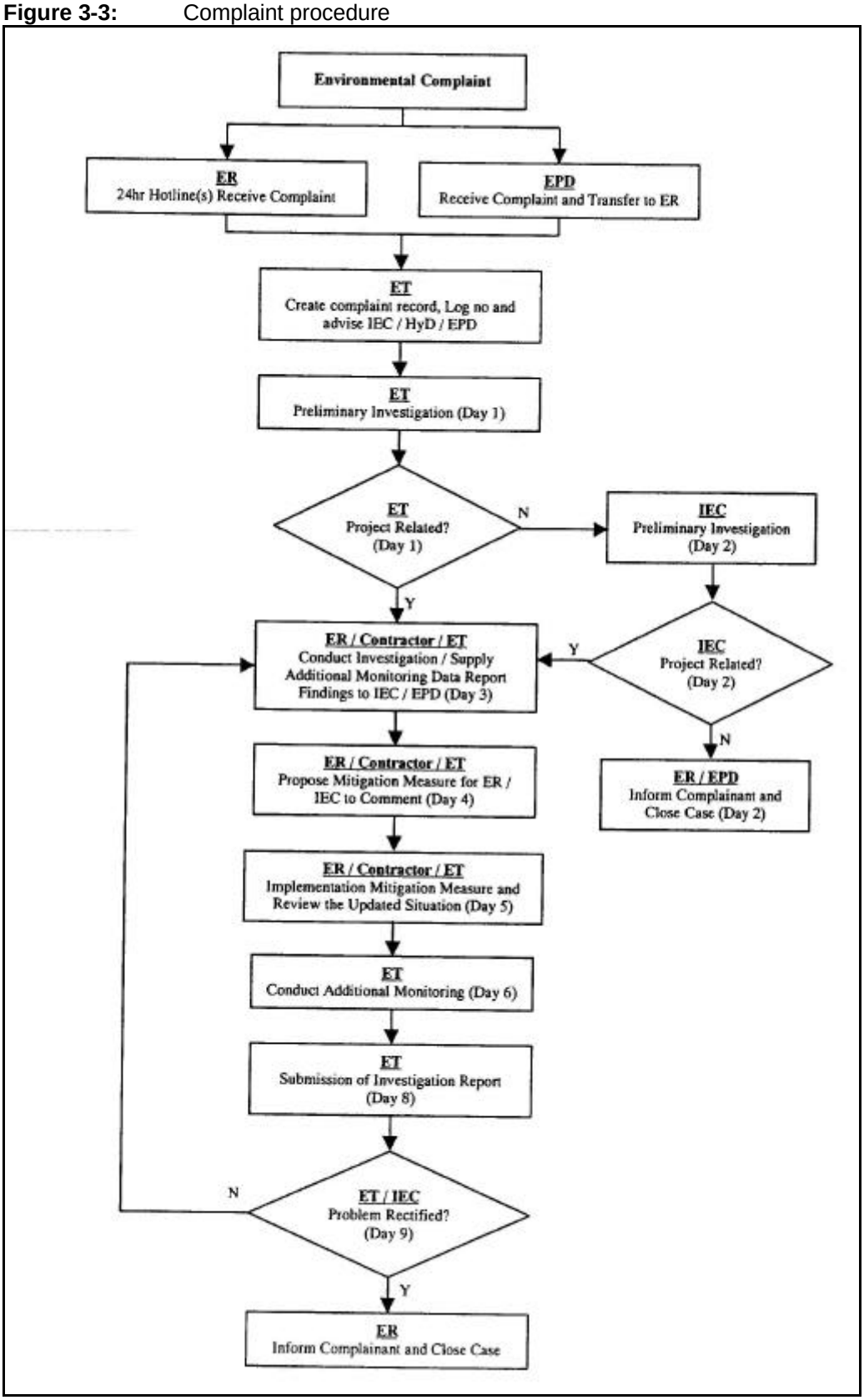
h) The ET will report on the investigation results and the subsequent actions to the source of complaint for responding to the complainant. If the source of complaint is via EPD, the results will be reported within the time frame assigned by EPD.

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:

(3) 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.

(4) 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

Amber and red rainstorm signals were issued on 24 April 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 5.43 mg/L was recorded at WWA1 on 23 April 2007 and the lowest DO level for bottom position of 5.35 mg/L was recorded at WWA3 on 04 April 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 12.7 Nephelometric Turbidity Unit (NTU) was recorded at WWA2 on 20 April 2007. There were 1 exceedance of Tby Baseline Check Criteria on 04 April 2007 and 3 exceedances of Tby Limit Level on 04 and 20 April 2007 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 18.5 mg/L were recorded at WWA1 on 18 April 2007. There were 6 exceedances of SS Baseline Check Criteria on 04, 10, 18 and 20 April 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 related to the Project and due to deficiencies of silt curtain and seepage of muddy water from Slope 82, except for the exceedance recorded on 10 April 2007.

Summary of Mid-Flood Tide

The lowest DO level for surface & middle position of 5.36 mg/L was recorded at WWA1 on 04 April 2007 and the lowest level for bottom position of 5.31 mg/L was recorded at WWA2 on 10 April 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 7.0 NTU was recorded at WWA3 on 04 April 2007. There was 1 exceedance of Tby Baseline Check Criteria on 04 April 2007 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 17.3 mg/L was recorded at WWA3 on 02 April 2007. There was 1 exceedance of SS Baseline Check Criteria on 02 April 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 related to deficiencies of silt curtain and seepage of muddy water from Slope 82.

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

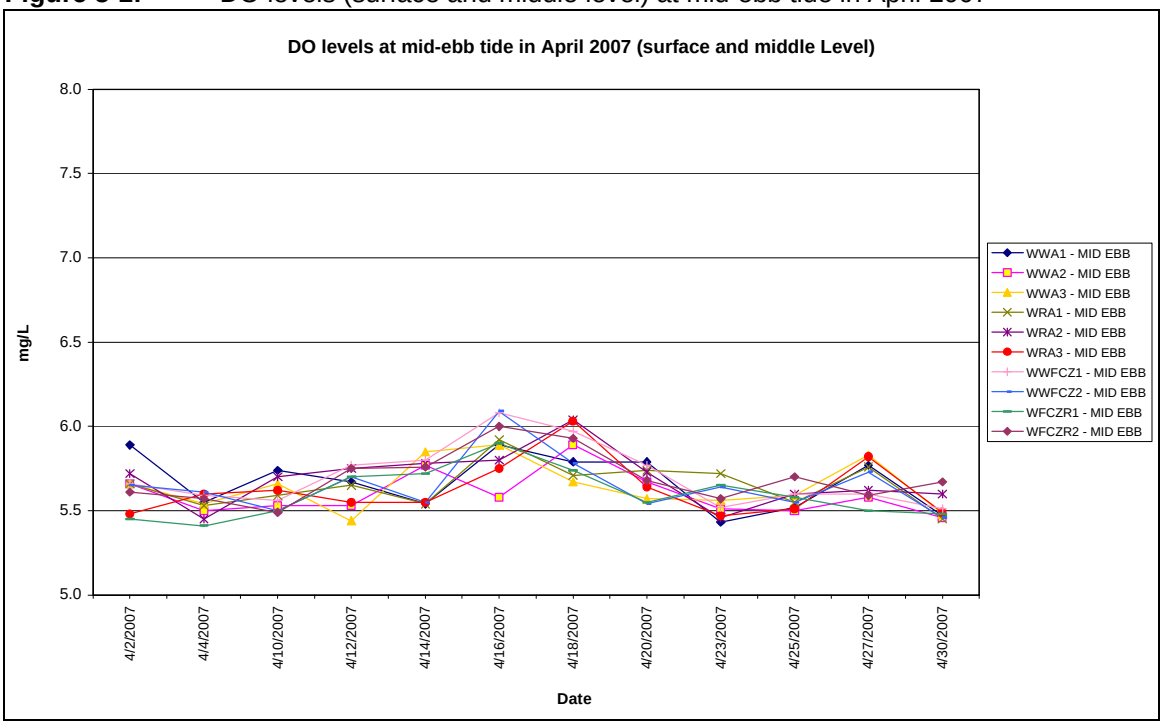


Figure 5-2: DO levels (bottom level) at mid-ebb tide in April 2007

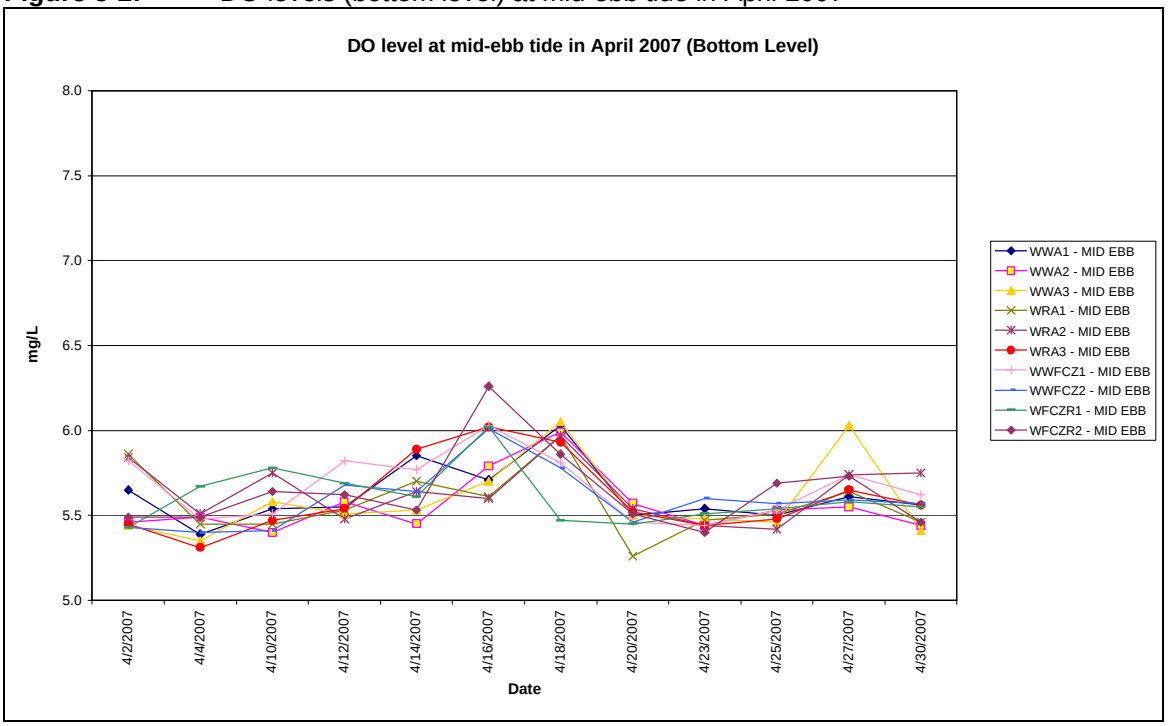


Figure 5-3: DO levels (surface and middle level) at mid-flood tide in April 2007

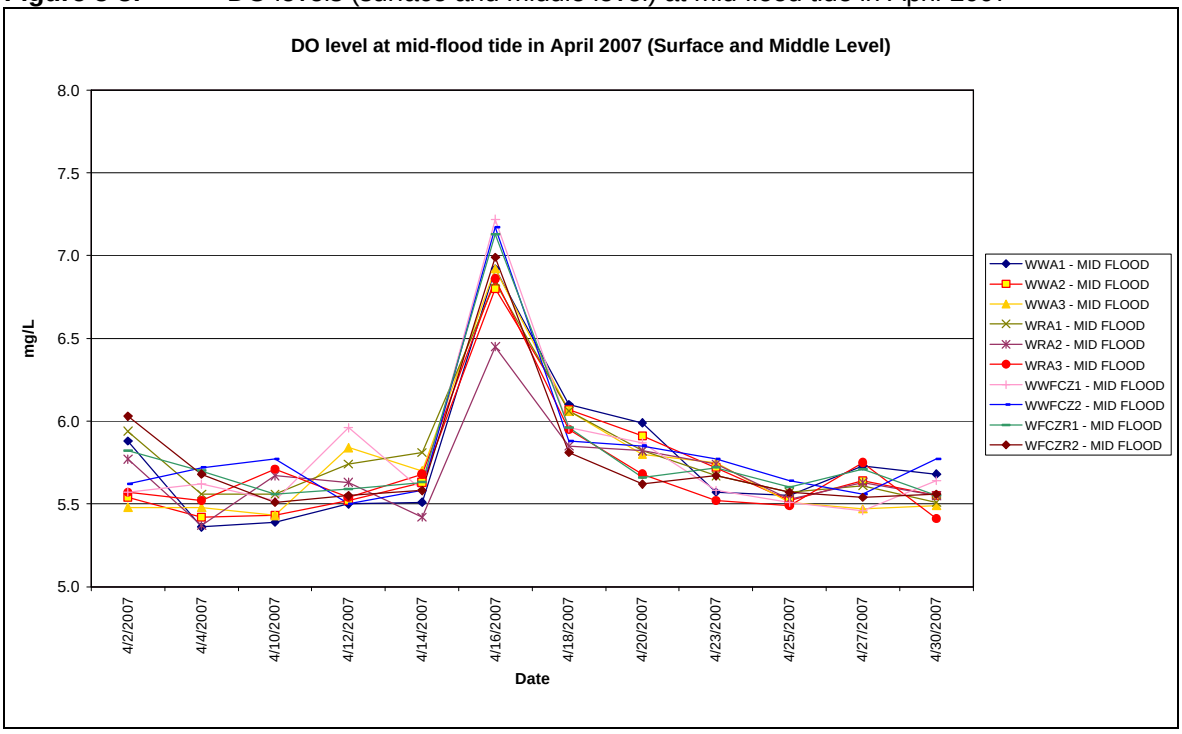


Figure 5-4: DO levels (bottom level) at mid-flood tide in April 2007

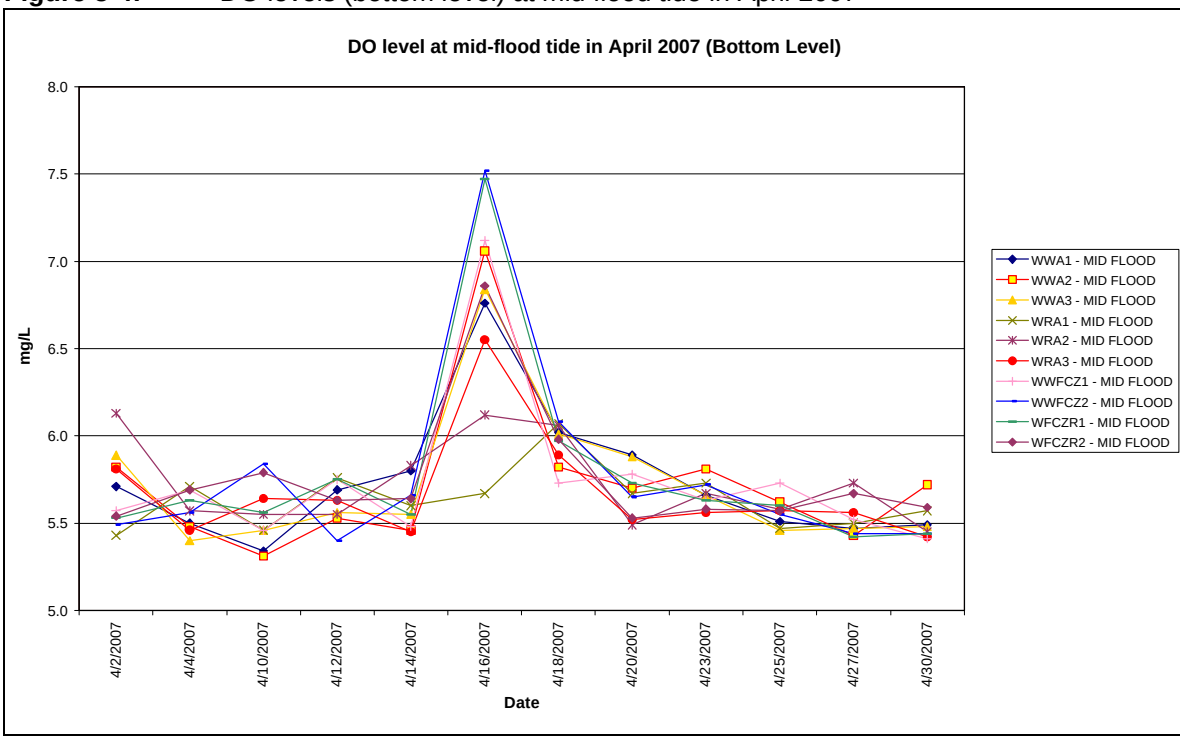


Figure 5-5: Turbidity levels at mid-ebb tide in April 2007

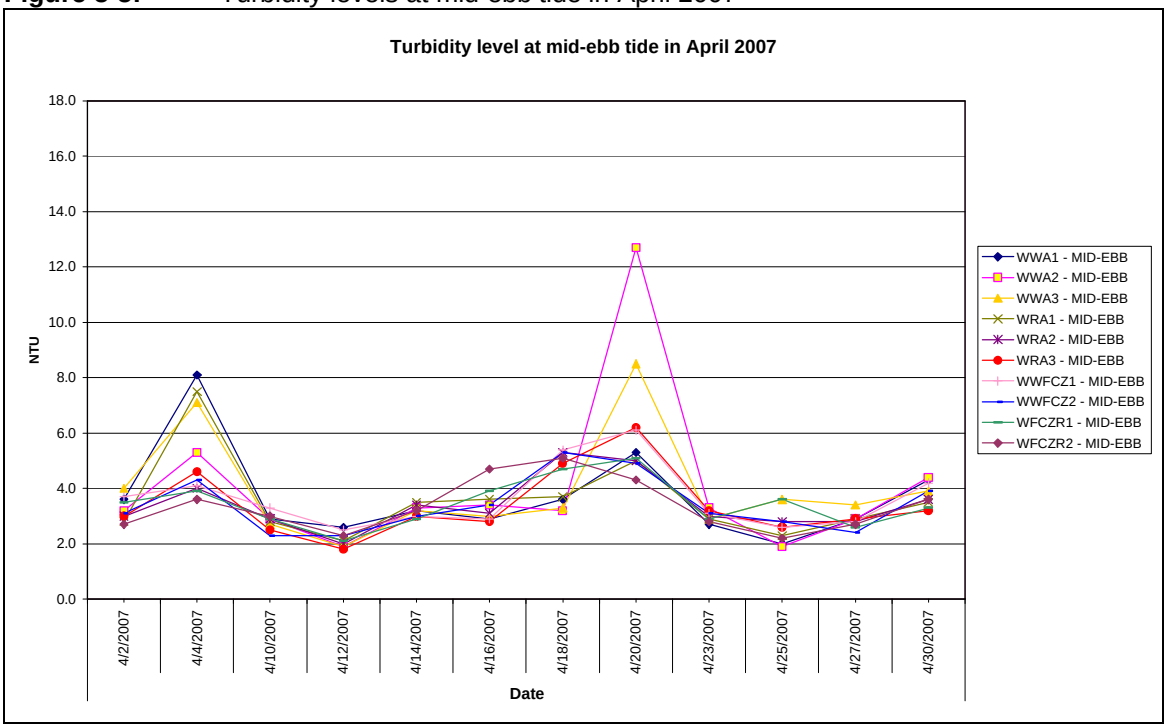


Figure 5-6: Turbidity levels at mid-flood tide in April 2007

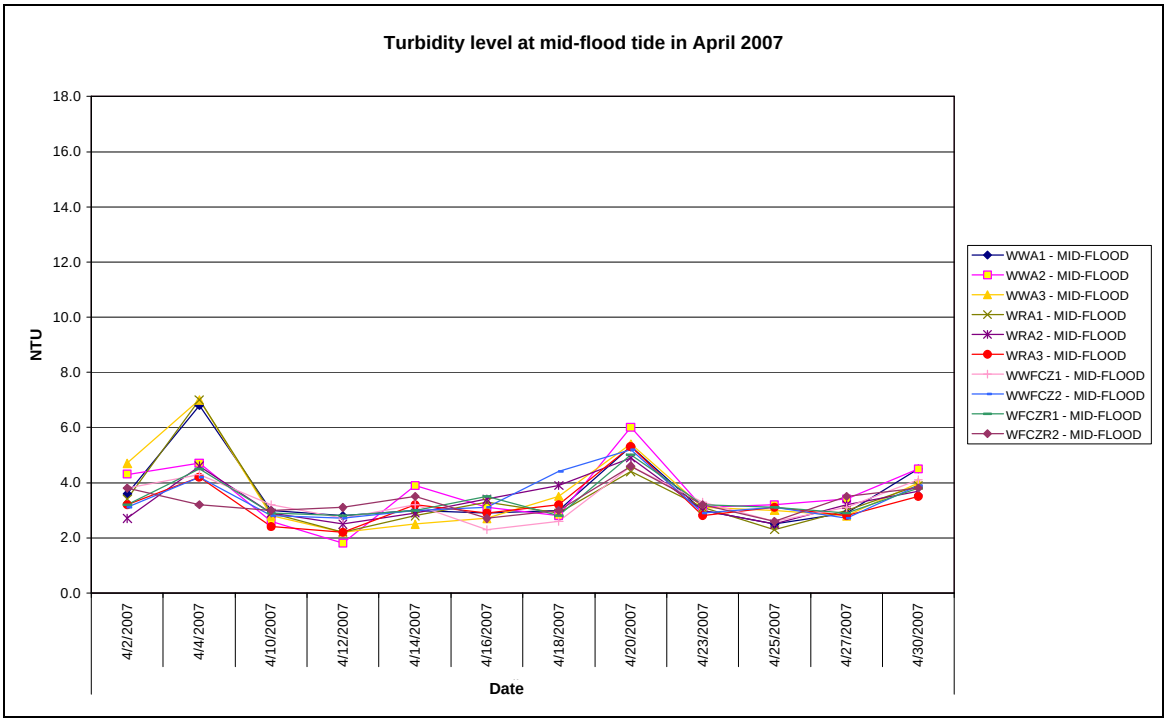


Figure 5-7: SS levels at mid-ebb tide in April 2007

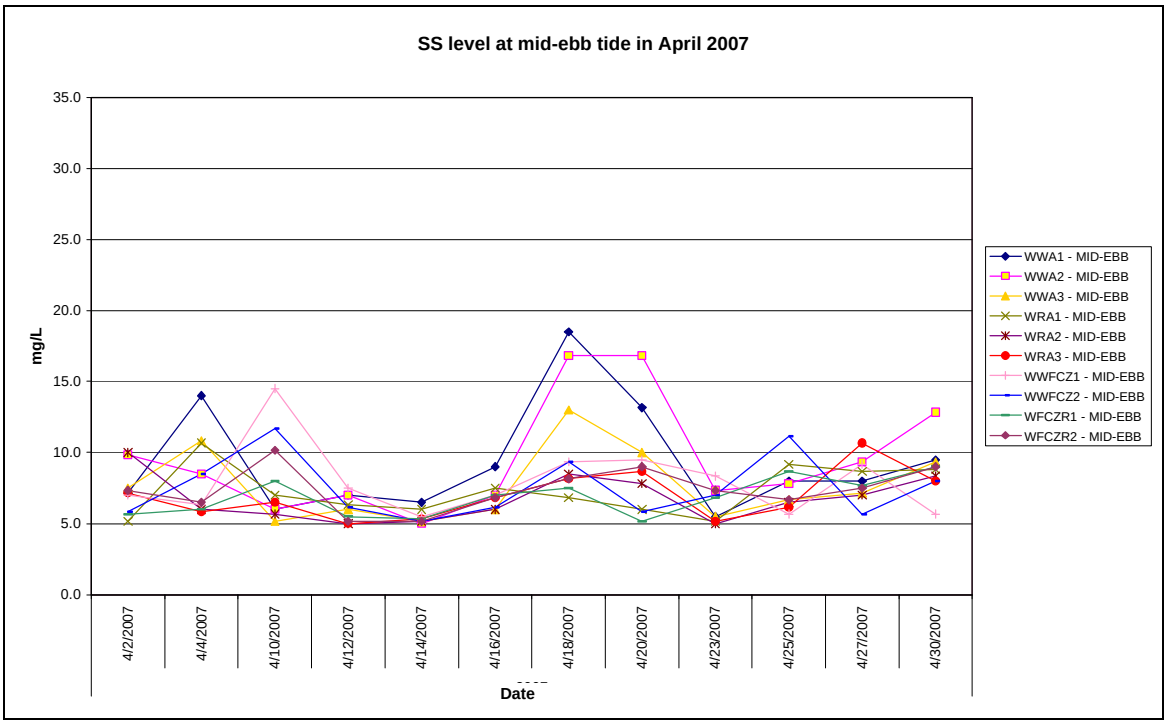
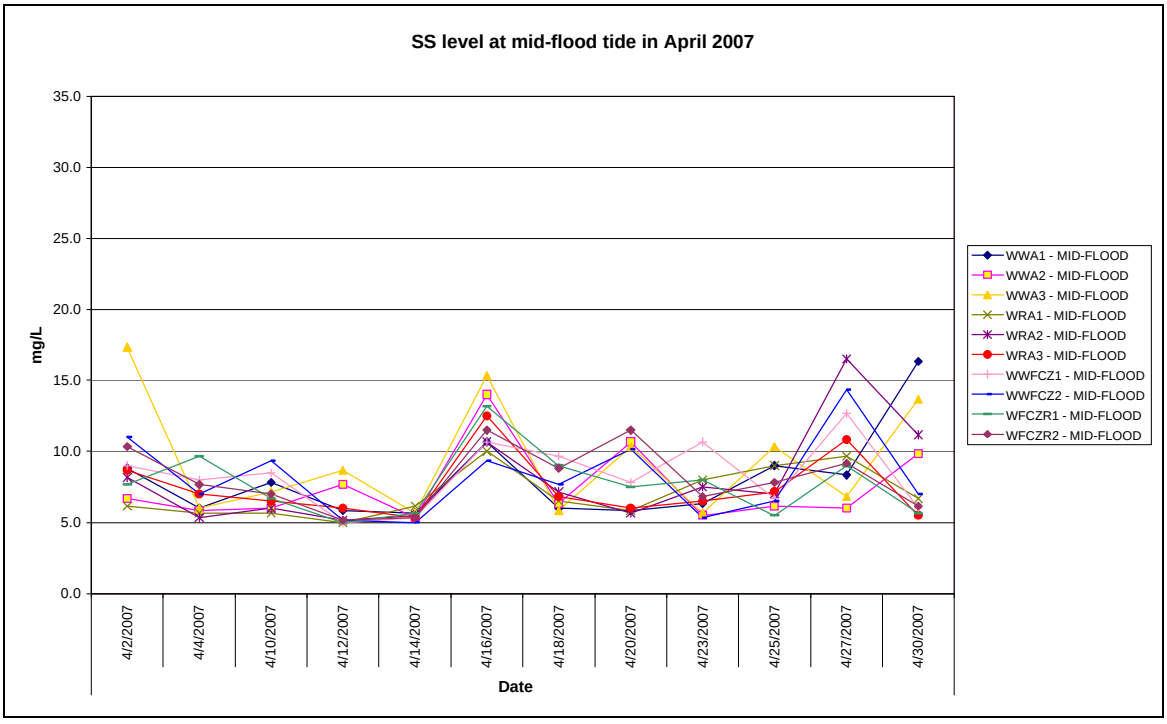


Figure 5-8: SS levels at mid-flood tide in April 2007



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

6.1 Site Audit Findings

Four weekly environmental site audits were carried out on 04, 11, 20 and 27 April 2007. The findings of the site audits are summarised in **Table 6-1**.

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

Date of Issue Raised	Observation	Advice from EA	CT's Response / Action	Closing Date
Follow-up of last month's site audit	1. Transplant of tree T113 was outstanding	CT was reminded to transplant the tree as soon as possible.	Agreed with the ET's advice. The tree was transplanted off-site in mid-April.	20 April 2007
	2. Some of the tags for exiting trees within the site were missing.	CT was reminded to provide tags to the trees.	Agreed with ET's advice. The tags were provided to trees.	20 April 2007
04 April 2007 (WTLT 062)	1. Stockpile was not covered at outfall EA and EB.	CT was reminded to cover the stockpile.	Agreed with the ET's advice. The stockpile was covered.	11 April 2007
	2. Rock breaking works was observed without water spraying.	CT was reminded to provide water spraying during rock breaking works.	Agreed with the ET's advice. Rock breaking works with water spraying was observed during site audit on 11 April 2007.	11 April 2007
	3. Seepage of muddy water was observed from Slope 82, where fill materials was stockpiled along the shore.	CT was reminded to provide water mitigation measures to avoid seepage of muddy water.	Agreed with the ET's advice. Geotextile was provided over boulders along the shore of Slope 82 in mid-April and the fill materials was removed in late April 2007.	02 May 2007
11 April 2007 (WTLT 063)	1. Removal of stockpile was being conducted during site audit and C&D materials was observed dropping to the sea.	CT was reminded to keep the grabbing rate as slow as possible and install a new silt curtain promptly.	Agreed with the ET's advice. The new silt curtain was installed on 14 April 2007.	20 April 2007
	2. Construction waste and empty cement bags were observed at Seawall B.	CT was reminded to clear the waste.	Agreed with the ET's advice. CT had removed the waste.	20 April 2007

Date of Issue Raised	Observation	Advice from EA	CT's Response / Action	Closing Date
20 April 2007 (WTLT 064)	1. Exposed slope was not covered at Seawall A.	CT was reminded to cover the exposed slope.	Agreed with the ET's advice. CT advised that the cover of the exposed slope was mounted, however, it was loosened by strong wind during site audit on 27 April 2007.	On-going
	2. Wheel wash was not provided to the vehicles leaving the exit outside Maeda's site office.	CT was reminded to provide wheel washing facility at every exit.	Agreed with ET's advice. CT had provided wheel washing at the exit.	02 May 2007
	3. Unpaved area was observed dry outside Grand Bay Villa.	CT was reminded to provide water spraying frequently.	Agreed with the ET's advice. CT provided water spraying immediately during site audit.	20 April 2007
	4. The silt curtain, which was installed on 14 April 2007, was observed broken. Seepage of muddy water was observed.	CT was reminded to repair the silt curtain as soon as possible.	Agreed with the ET's advice. The silt curtain had been repaired on 28 April 2007.	02 May 2007
	5. An oil drum was observed without driptray near Maeda's site office.	CT was reminded to provide driptray to all oil drums.	Agreed with the ET's advice. The oil drum was removed from the site.	27 April 2007
	6. Mud trails were observed along Castle Peak Raod.	CT was reminded to clear the mud trails.	Agreed with the ET's advice.	02 May 2007
27 April 2007 (WTLT 065)	1. No new environmental deficiency was observed.	-	-	-

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 barge and truck during reporting period. The disposal record of C&D materials by barge in April 2007 is attached in **Appendix E**.

Table 6-2: Waste disposal quantity in April 2007

Type of waste or material		Disposal at	No. of loads or quantities
C&D waste		WENT Landfill	19.45 tonnes
C&D material	By barge	Public Filling Reception Facility in Tuen Mun Area 38	11,282 tonnes
	By truck		1,801.4 tonnes
Chemical waste		Collected by licensed collector	0

6.3 Complaint Record

EPD conducted a site inspection on 12 April 2007 and observed environmental deficiencies in the following areas:

(1) Silt curtain was not properly provided for construction works at Seawall B and

(2) Dust suppression measures were not provided for rock breaking works.

A warning, in a form of yellow form, was given to the CT. The EPD inspection record was given in **Appendix I**. Upon receiving warnings from EPD, the CT mobilized workers to install a new silt curtain which was completed on 14 April 2007, cover the stockpile on the seaside, conduct daily inspection of the silt curtain and provide regular water spraying during rock breaking works.

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. Almost all the exceedances were likely attributed to the construction activities of the Project.

These exceedances are summarised in **Tables 6-3 and 6-4**. The details of the investigation was summarised in **Appendix F.**

The CT has installed a new silt curtain around the stockpile at Seawall B on 14 April 2007. The water quality has been improved on the subsequent monitoring days (14 and 16 April 2007). However, the bottom of the silt curtain was observed broken on 18 and 20 April 2007 and mud plume was dispersed out of the silt curtain. An *ad hoc* meeting was held between CT, ET and IEC on 24 April 2007 discussing the maintenance of the silt curtain.

CT was advised to:
(1) Repair the silt curtain promptly;
(2) Suspend all construction works at Seawall B until completion of repairing of silt curtain; and
(3) Cover the stockpile at Seawall B by tarpaulin to prevent muddy runoff during raining.

The CT has taken the following measures during the reporting period:
(1) All excavation works and removal of stockpile at the Seawall B were suspended;
(2) Repairing of silt curtain was completed on 28 April 2007;
(3) The stockpile was covered by tarpaulin on the seaside in late April 2007; and
(4) The performance of the silt curtain was inspected and recorded on a daily basis.

The details of the silt curtain inspection record were given in **Appendix G**.

Table 6-3: Summary of exceedances of marine water quality monitoring (related to construction works of the Project) in April 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
02-Apr	Mid-flood	WWA3	-	-	-	8.7	17.3	Baseline Check
04-Apr	Mid-ebb	WWA1	7.5	8.1	Limit Level	10.7	14.0	Baseline Check
04-Apr	Mid-ebb	WWA3	4.6	7.1	Baseline Check	-	-	-

Date	Tide	Location	Exceedances of monitoring data					
			Tby (NTU)			SS (mg/L)		
			Control Station	Impact Station	Exceedance of	Control Station	Impact Station	Exceedance of
04-Apr	Mid-flood	WWA3	4.2	7.0	Baseline Check	-	-	-
18-Apr	Mid-ebb	WWA1	-	-	-	6.8	18.5	Baseline Check
18-Apr	Mid-ebb	WWA2	-	-	-	8.5	16.8	Baseline Check
20-Apr	Mid-ebb	WWA1	-	-	-	6.0	13.2	Baseline Check
20-Apr	Mid-ebb	WWA2	5.0	12.7	Limit Level	7.8	16.8	Baseline Check
20-Apr	Mid-ebb	WWA3	6.2	8.5	Limit Level	-	-	-

Table 6-4: Summary of exceedances of marine water quality monitoring (not related to construction works of the Project) in April 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
10-Apr	Mid-ebb	WWFCZ1	-	-	-	8.0	14.5	Baseline Check

6.5 Notification of Summons and Successful Prosecution

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

6.6 Environmental Licenses

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

Table 6-4: Summary of valid environmental licences in April 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
Delivery of C&D Materials to PFRF at Tuen Mun Area 38 by Barge	Application No.: CEDD00160	30 Jan 2007	30 Jun 2007

7 Conclusions

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

Exceedances of marine water quality were recorded during reporting period. After ET's investigation, almost all exceedances were likely due to construction activities of the Project during the reporting period.

No complaint, summons or prosecution related to environmental issues was received during the reporting month. However, EPD conducted a site inspection on 12 April 2007 and warnings, in a form of yellow form, had been issued for not providing silt curtain properly for construction works at Seawall B and dust suppression measures for rock breaking works.

Weekly environmental site audit was carried out during the reporting month. Environmental improvements on air quality, water quality and waste management have been recommended.

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

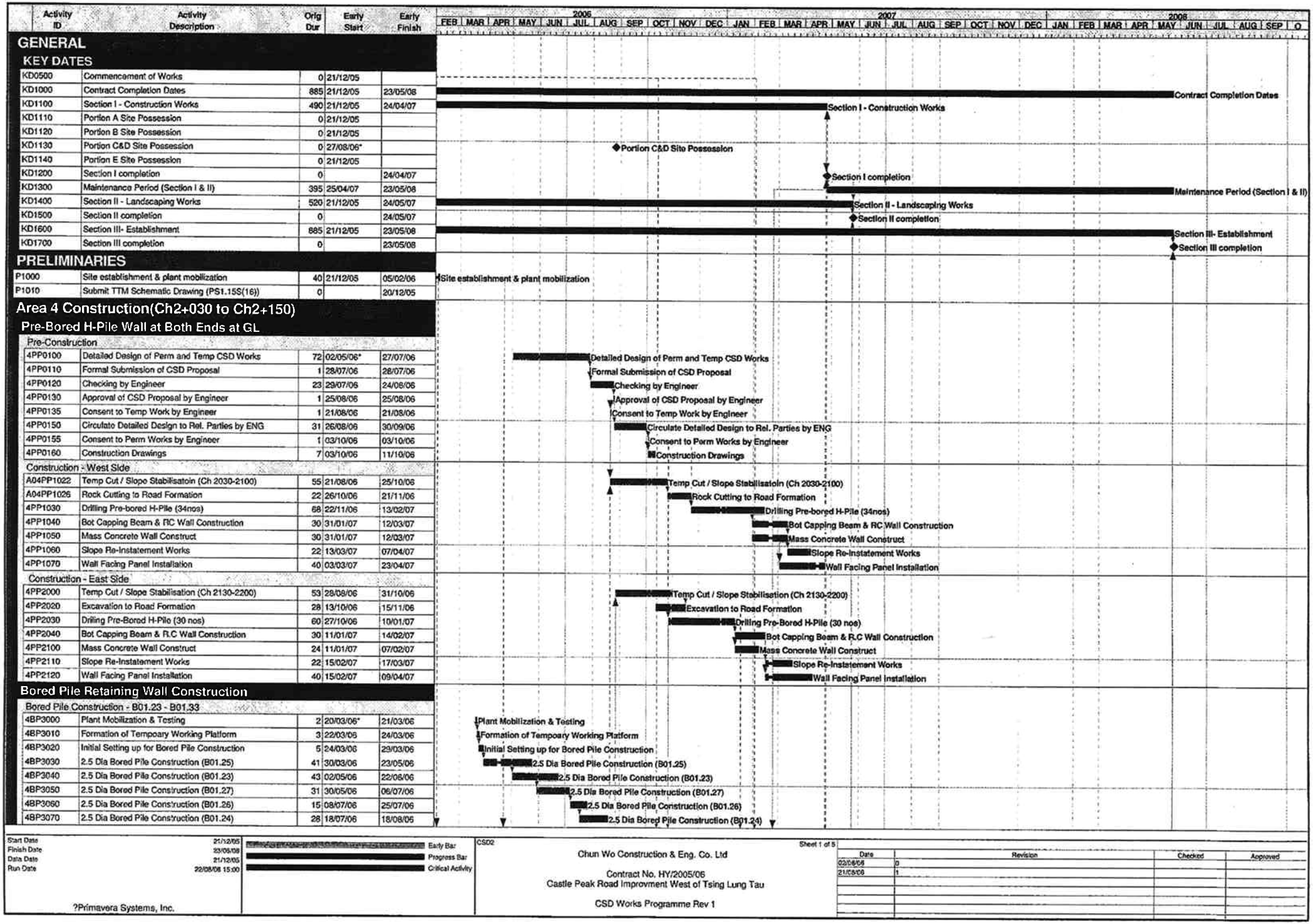
8 References

[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

?Primavera Systems, Inc.

CSD2

Sheet 1 of 5

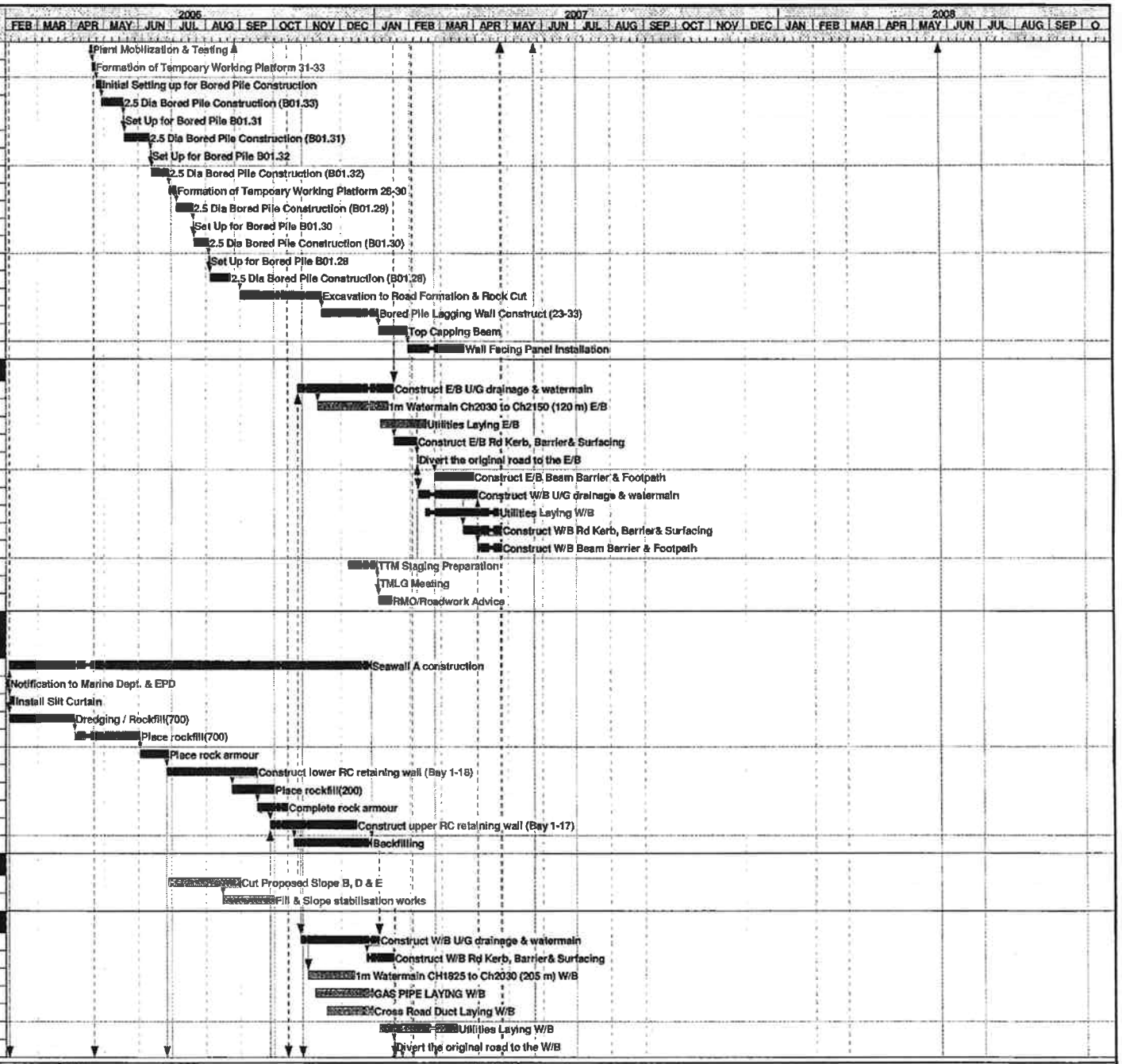
Chun Wo Construction & Eng. Co. Ltd

Contract No. HY/2005/05
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, Barrior& 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
A0UU25200	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	55*	04/01/07	15/03/07
3RW2500	Divert the original road to the W/B	1	17/01/07	17/01/07



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

Early Bar
Progress Bar
Critical Activity

?Primavera Systems, Inc.

CSD2 Sheet 2 of 5

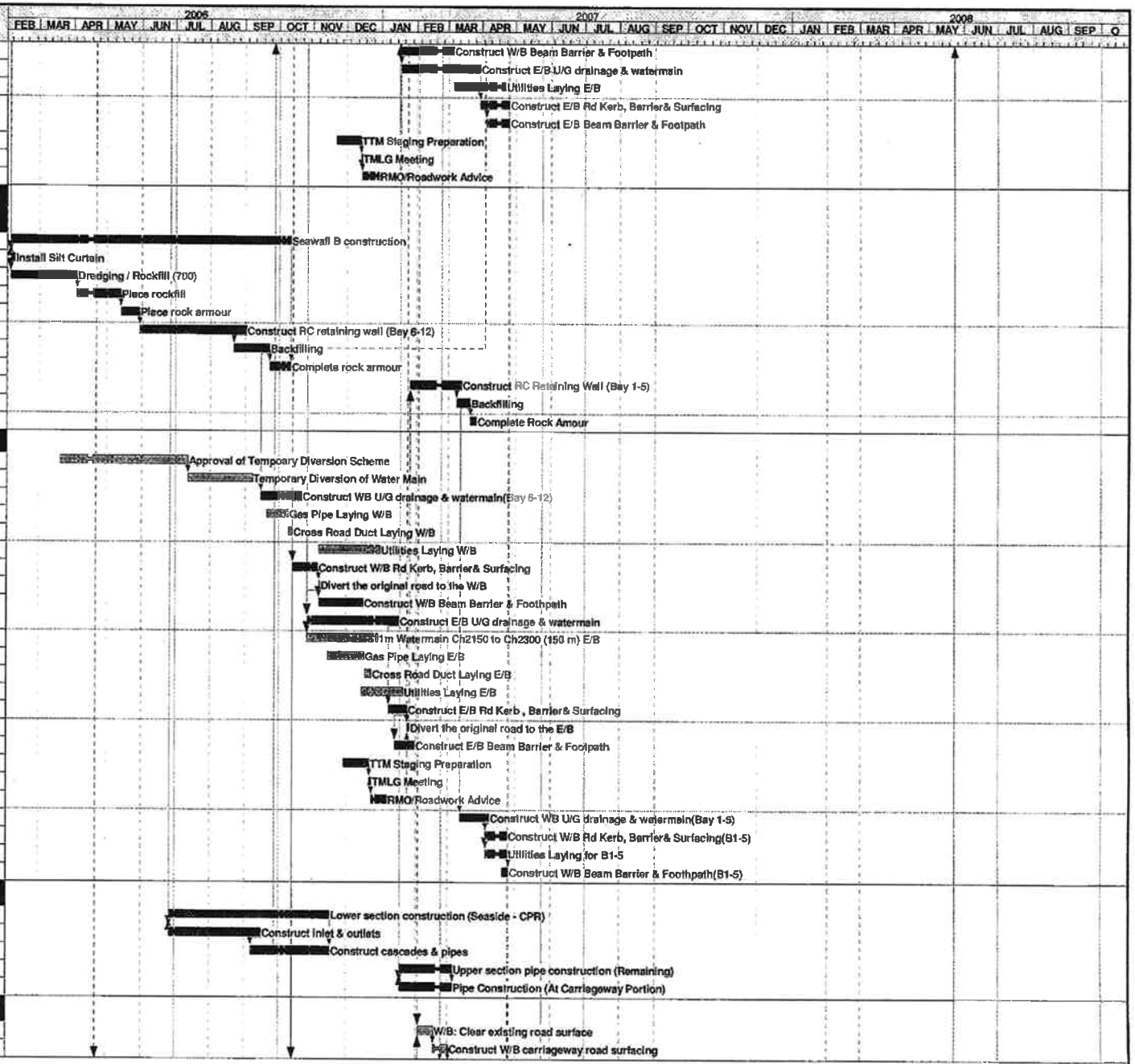
Chun Wo Construction & Eng. Co. Ltd

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
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*	06/11/06	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 29/05/09
Data Date 21/12/05
Run Date 22/08/06 15:00

?Primavera Systems, Inc.

Early Bar
Progress Bar
Critical Activity

CSD2

Sheet 3 of 5

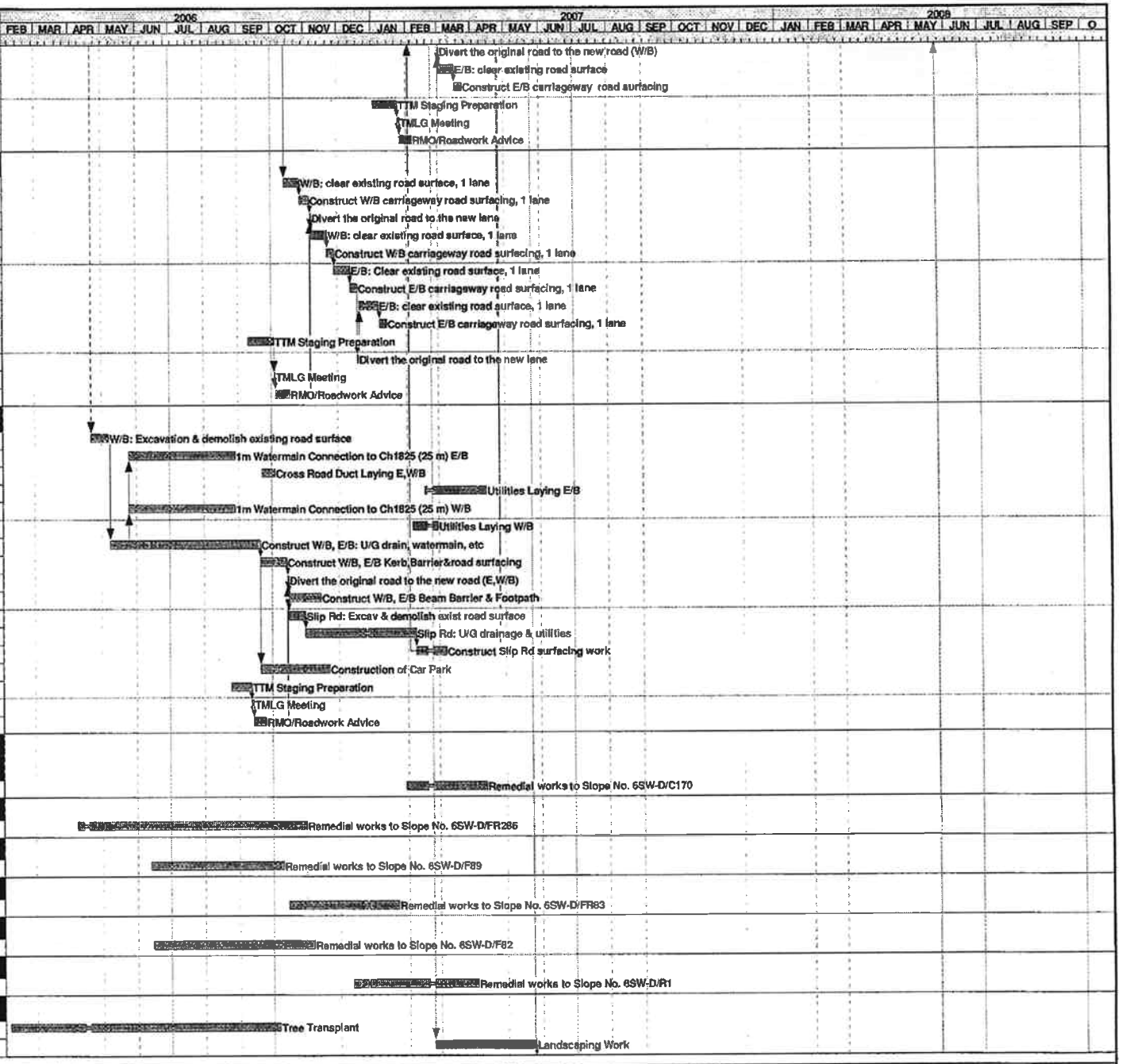
Chun Wo Construction & Eng. Co. Ltd

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
5RW2000	Divert the original road to the new road (W/B)	1	02/03/07	02/03/07
5RW2500	E/B: clear existing road surface	12	03/03/07	16/03/07
5RW3500	Construct E/B carriageway road surfacing	6	17/03/07	23/03/07
5RW3510	TTM Staging Preparation	19	03/01/07	24/01/07
5RW3520	TMLG Meeting	1	25/01/07	25/01/07
5RW3530	RMO/Roadwork Advice	10	26/01/07	06/02/07
Area 6 Construction(Ch2+300 to Ch2+400)				
6RW0500	W/B: clear existing road surface, 1 lane	12	14/10/06	27/10/06
6RW1500	Construct W/B carriageway road surfacing, 1 lane	6	28/10/06	04/11/06
6RW2000	Divert the original road to the new lane	1	06/11/06	06/11/06
6RW2100	W/B: clear existing road surface, 1 lane	12	07/11/06	20/11/06
6RW2200	Construct W/B carriageway road surfacing, 1 lane	6	21/11/06	27/11/06
6RW2500	E/B: Clear existing road surface, 1 lane	12	28/11/06	11/12/06
6RW3500	Construct E/B carriageway road surfacing, 1 lane	6	12/12/06	18/12/06
6RW3501	E/B: clear existing road surface, 1 lane	12	21/12/06	06/01/07
6RW3502	Construct E/B carriageway road surfacing, 1 lane	6	08/01/07	13/01/07
6RW3510	TTM Staging Preparation	19	11/09/06	03/10/06
6RW3511	Divert the original road to the new lane	1	19/12/06	19/12/06
6RW3520	TMLG Meeting	1	04/10/06	04/10/06
6RW3530	RMO/Roadwork Advice	10	05/10/06	17/10/06
Area 2 Construction(Ch1+705 to Ch1+825)				
1RW0500	W/B: Excavation & demolish existing road surface	12	21/04/06*	06/05/06
A0UU25700	1m Watermain Connection to Ch1825 (25 m) E/B	80	25/05/06	28/08/06
A01RW0800	Cross Road Duct Laying E,W/B	8	23/09/06	03/10/06
A01RW0600	Utilities Laying E/B	42*	17/02/07	13/04/07
A0UU26100	1m Watermain Connection to Ch1825 (25 m) W/B	80	25/05/06	28/08/06
A01RW0700	Utilities Laying W/B	14*	06/02/07	27/02/07
1RW1000	Construct W/B, E/B: U/G drain, watermain, etc	115	08/05/06	20/09/06
1RW1500	Construct W/B, E/B Kerb,Barrier&road surfacing	19	21/09/06	14/10/06
1RW2000	Divert the original road to the new road (E,W/B)	1	16/10/06	16/10/06
1RW2010	Construct W/B, E/B Beam Barrier & Footpath	24	17/10/06	14/11/06
1RW2500	Slip Rd: Excav & demolish exist road surface	12	17/10/06	31/10/06
1RW3000	Slip Rd: U/G drainage & utilities	82	01/11/06	08/02/07
1RW3500	Construct Slip Rd surfacing work	18	09/02/07	07/03/07
A01RW0500	Construction of Car Park	50	21/09/06	21/11/06
1RW3510	TTM Staging Preparation	15	26/08/06	12/09/06
1RW3520	TMLG Meeting	1	13/09/06	13/09/06
1RW3530	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*	06/04/06	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				
A0LW1000	Tree Transplant	200	06/02/06*	06/10/06
LW1000	Landscaping Work	90	24/02/07	24/05/07



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

?Primavera Systems, Inc.

CSD2

Sheet 4 of 5

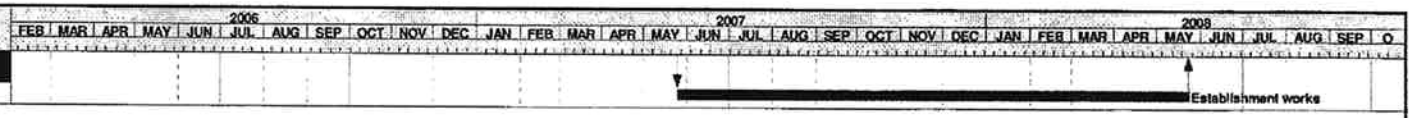
Chun Wo Construction & Eng. Co. Ltd

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
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	22/06/06 15:00

?Primavera Systems, Inc.

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
02/06/06	0		
21/06/06	1		

Appendix B

Monitoring schedule for April 2007 and May 2007

Environmental Monitoring and Audit Schedule - April 2007

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

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

Tentative Environmental Monitoring and Audit Schedule - May 2007

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

May-2007

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

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 000077
Page No. : 1 of 5
Issue Date : 01/02/2007

Received Date : 24/01/2007
Approved Signatory : Fung Kam Wing
Remarks :

Completion Date : 25/01/2007

Calibration Results:

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

Serial No. : 99 G0526 AB

Calibration Method : APHA 18e 2520 A & B

Date of Calibration : 25/01/2007

Results :

Salinity

Expected Reading (ppt)	Recorded Reading (ppt)
0	0
7.4	7.4
15	14.7
35	33.2
39.3	37.2

Approval Signatory:

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香港總部 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

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

Report No. : CR 000077

Issue Date : 01/02/2007

Received Date : 24/01/2007
Completion Date : 25/01/2007
Approved Signatory : Fung Kam Wing
Remarks :

Calibration Results:

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

Serial No. : 99 G0526 AB

Calibration Method : In house method

Date of Calibration : 25/01/2007

Results :

Temperature

Expected Reading (°C)	Recorded Reading (°C)
10.0	10.1
20.0	20.5
30.0	30.7
40.0	40.9

Approval Signatory:

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Environmental Management Division

CALIBRATION REPORT

Client : OVE ARUP & PARTNERS H.K. LTD.
Address : Level 5 Festival Walk,
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Report No. : CR 000077
Page No. : 3 of 5
Issue Date : 01/02/2007

Received Date : 24/01/2007
Approved Signatory : Fung Kam Wing
Remarks :

Completion Date : 25/01/2007

Calibration Results:

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

Serial No. : 99 G0526 AB

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

Date of Calibration : 24/01/2007

Results :

Dissolved Oxygen

Expected Reading (mg/L)	Recorded Reading (mg/L)
3.44	3.70
4.83	4.90
5.81	5.90
6.90	7.15
9.12	9.35

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

Report No. : CR 000077
Page No. : 4 of 5
Issue Date : 01/02/2007

Received Date : 24/01/2007
Completion Date : 25/01/2007
Approved Signatory : Fung Kam Wing
Remarks :

Calibration Results:

Item : HACH 2100P Turbidimeter

Serial No. : 011100024354

Calibration Method : APHA 18e 2130 B

Date of Calibration : 25/01/2007

Results :

Turbidity

Expected Reading (NTU)	Recorded Reading (NTU)
0	0.15
2	1.98
4	4.06
16	15.5
40	38.2
80	77.6

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Kowloon.

Report No. : CR 000077
Page No. : 5 of 5
Issue Date : 01/02/2007

Received Date : 24/01/2007
Completion Date : 25/01/2007
Approved Signatory : Fung Kam Wing
Remarks :

Calibration Results:

Item : HANNA instrument HI 98128 membrane pH meter

Serial No. : 1377140

Calibration Method : In house method

Date of Calibration : 24/01/2007

Results :

pH

Expected Reading (pH unit)	Recorded Reading (pH unit)
4.00	4.05
7.00	7.05
10.0	10.09

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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 000078
Page No. : 1 of 5
Issue Date : 24/04/2007

Received Date : 18/04/2007
Approved Signatory : Fung Kam Wing
Remarks :

Completion Date : 24/04/2007

Calibration Results:

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

Serial No. : 99 G0526 AB

Calibration Method : APHA 18e 2520 A & B

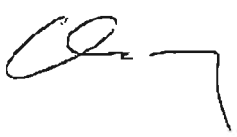
Date of Calibration : 24/04/2007

Results :

Salinity

Expected Reading (ppt)	Recorded Reading (ppt)
0	0
7.4	7.2
15	14.7
35	33.4
39.3	37.6

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,
80 Tat Chee Avenue,
Kowloon Tong,
Kowloon.

Report No. : CR 000078
Page No. : 2 of 5
Issue Date : 24/04/2007

Received Date : 18/04/2007
Approved Signatory : Fung Kam Wing
Remarks :

Completion Date : 24/04/2007

Calibration Results:

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

Serial No. : 99 G0526 AB

Calibration Method : In house method

Date of Calibration : 24/04/2007

Results :

Temperature

Expected Reading (°C)	Recorded Reading (°C)
10.0	11.3
20.0	20.8
30.0	31.0
40.0	41.3

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Client : OVE ARUP & PARTNERS H.K. LTD.
Address : Level 5 Festival Walk,
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Report No. : CR 000078
Page No. : 3 of 5
Issue Date : 24/04/2007

Received Date : 18/04/2007
Approved Signatory : Fung Kam Wing
Remarks :

Completion Date : 24/04/2007

Calibration Results:

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

Serial No. : 99 G0526 AB

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

Date of Calibration : 24/04/2007

Results :

Dissolved Oxygen

Expected Reading (mg/L)	Recorded Reading (mg/L)
2.35	2.48
4.40	4.96
6.35	6.72
7.40	7.65
8.50	8.68

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CALIBRATION REPORT

Client : OVE ARUP & PARTNERS H.K. LTD.
Address : Level 5 Festival Walk,
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Kowloon.

Report No. : CR 000078
Page No. : 4 of 5
Issue Date : 24/04/2007

Received Date : 18/04/2007
Approved Signatory : Fung Kam Wing
Remarks :

Completion Date : 24/04/2007

Calibration Results:

Item : HACH 2100P Turbidimeter

Serial No. : 011100024354

Calibration Method : APHA 18e 2130 B

Date of Calibration : 19/04/2007

Results :

Turbidity

Expected Reading (NTU)	Recorded Reading (NTU)
0	0.17
2	1.91
4	3.99
16	15.1
40	38.1
80	77.5

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CALIBRATION REPORT

Client : OVE ARUP & PARTNERS H.K. LTD.
Address : Level 5 Festival Walk,
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Report No. : CR 000078
Page No. : 5 of 5
Issue Date : 24/04/2007

Received Date : 18/04/2007
Approved Signatory : Fung Kam Wing
Remarks :

Completion Date : 24/04/2007

Calibration Results:

Item : HANNA instrument HI 98128 membrane pH meter

Serial No. : S332747

Calibration Method : In house method

Date of Calibration : 18/04/2007

Results :

pH

Expected Reading (pH unit)	Recorded Reading (pH unit)
4.01	3.98
7.00	7.00
10.0	10.01

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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	2-Apr-07			23.9	5.90	5.96		75.3	75.5	7.9	29.1	3.1	3.0		7.0	
2	WWA1	M	MID-EBB	2-Apr-07	10:06	7.10	23.9	5.86	5.85	5.89	76.0	75.6	7.9	29.6	4.2	4.2		8.0	
3	WWA1	B	MID-EBB	2-Apr-07			24.0	5.70	5.60	5.65	76.6	75.0	7.9	29.4	3.5	3.7	3.6	6.5	7.2
4	WWA2	S	MID-EBB	2-Apr-07			24.1	5.70	5.63		84.1	82.5	7.9	29.6	3.2	3.2		9.5	
5	WWA2	M	MID-EBB	2-Apr-07	10:20	7.20	23.9	5.66	5.66	5.66	80.2	79.9	7.9	29.8	3.5	3.5		11.0	
6	WWA2	B	MID-EBB	2-Apr-07			23.9	5.42	5.49	5.46	73.5	73.2	7.9	29.9	2.9	2.8	3.2	9.0	9.8
7	WWA3	S	MID-EBB	2-Apr-07			23.9	5.77	5.70		83.2	82.0	7.9	29.8	2.9	2.9		5.0	
8	WWA3	M	MID-EBB	2-Apr-07	10:34	6.80	23.8	5.57	5.59	5.66	80.4	80.1	7.9	30.0	3.0	3.2		10.5	
9	WWA3	B	MID-EBB	2-Apr-07			23.8	5.42	5.45	5.44	76.5	76.3	7.9	30.0	6.0	6.1	4.0	7.0	7.5
10	WRA1	S	MID-EBB	2-Apr-07			24.1	5.52	5.50		77.5	77.4	7.9	28.6	3.1	3.3		5.0	
11	WRA1	M	MID-EBB	2-Apr-07	9:53	40.90	24.0	5.84	5.78	5.66	85.1	84.0	7.9	29.7	2.6	2.6		5.5	
12	WRA1	B	MID-EBB	2-Apr-07			24.1	5.87	5.85	5.86	83.6	83.3	7.9	30.1	2.4	2.6	2.8	5.0	5.2
13	WRA2	S	MID-EBB	2-Apr-07			24.0	5.52	5.51		79.1	78.9	7.9	29.3	3.1	3.1		9.5	
14	WRA2	M	MID-EBB	2-Apr-07	9:38	35.70	24.0	5.94	5.90	5.72	83.6	83.8	7.9	30.1	2.9	2.8		8.5	
15	WRA2	B	MID-EBB	2-Apr-07			24.0	5.84	5.83	5.84	84.1	83.6	7.9	30.5	3.1	3.1	3.0	12.0	10.0
16	WRA3	S	MID-EBB	2-Apr-07			24.1	5.43	5.40		76.1	76.3	7.9	29.4	3.2	3.2		6.0	
17	WRA3	M	MID-EBB	2-Apr-07	9:22	35.60	24.0	5.57	5.52	5.48	80.0	79.3	7.9	30.1	2.8	2.8		9.5	
18	WRA3	B	MID-EBB	2-Apr-07			24.2	5.46	5.43	5.45	79.1	78.6	7.9	30.1	3.1	3.2	3.0	6.0	7.2
19	WWFCZ1	S	MID-EBB	2-Apr-07			24.1	5.48	5.46		66.5	66.6	7.9	29.1	3.5	3.5		7.5	
20	WWFCZ1	M	MID-EBB	2-Apr-07	8:43	40.50	24.0	5.80	5.88	5.66	67.0	66.9	7.9	30.1	3.7	3.5		6.0	
21	WWFCZ1	B	MID-EBB	2-Apr-07			24.0	5.82	5.81	5.82	69.0	68.8	7.9	30.4	4.0	4.2	3.7	7.5	7.0
22	WWFCZ2	S	MID-EBB	2-Apr-07			24.1	5.52	5.41		72.1	72.0	7.9	29.7	3.3	3.4		6.0	
23	WWFCZ2	M	MID-EBB	2-Apr-07	8:57	41.30	24.0	5.80	5.88	5.65	75.0	74.8	7.9	29.8	3.2	3.5		5.5	
24	WWFCZ2	B	MID-EBB	2-Apr-07			24.0	5.46	5.40	5.43	71.0	70.6	7.9	30.0	2.8	2.7	3.1	6.0	5.8
25	WFCZR1	S	MID-EBB	2-Apr-07			24.2	5.40	5.41		71.9	72.0	7.9	28.4	3.8	3.7		6.0	
26	WFCZR1	M	MID-EBB	2-Apr-07	8:30	40.90	24.2	5.51	5.49	5.45	68.8	68.6	7.9	29.9	3.5	3.5		5.0	
27	WFCZR1	B	MID-EBB	2-Apr-07			24.0	5.44	5.41	5.43	67.8	67.7	7.9	30.9	3.1	3.2	3.5	6.0	5.7
28	WFCZR2	S	MID-EBB	2-Apr-07			24.2	5.49	5.48		78.4	78.0	7.9	29.0	2.9	2.8		7.0	
29	WFCZR2	M	MID-EBB	2-Apr-07	9:09	41.90	23.9	5.75	5.71	5.61	77.8	77.2	7.9	30.2	2.6	2.5		5.5	
30	WFCZR2	B	MID-EBB	2-Apr-07			23.8	5.49	5.48	5.49	78.2	78.0	7.9	30.8	2.6	2.7	2.7	9.5	7.3
31	WWA1	S	MID-FLOOD	2-Apr-07			24.1	6.14	6.12		87.4	87.0	7.9	27.0	3.1	3.1		10.0	
32	WWA1	M	MID-FLOOD	2-Apr-07	15:08	6.70	24.0	5.69	5.57	5.88	81.0	80.3	7.9	27.0	4.0	4.1		7.0	
33	WWA1	B	MID-FLOOD	2-Apr-07			24.0	5.73	5.68	5.71	83.9	82.9	7.9	26.9	3.6	3.6	3.6	9.5	8.8
34	WWA2	S	MID-FLOOD	2-Apr-07			24.2	5.38	5.37		78.8	77.8	7.9	27.2	4.0	4.2		8.5	
35	WWA2	M	MID-FLOOD	2-Apr-07	15:20	6.90	24.1	5.72	5.69	5.54	81.2	80.6	7.9	27.4	4.7	4.6		6.0	
36	WWA2	B	MID-FLOOD	2-Apr-07			24.1	5.85	5.79	5.82	83.3	83.7	7.9	27.3	4.0	4.2	4.3	5.5	6.7
37	WWA3	S	MID-FLOOD	2-Apr-07			24.3	5.49	5.42		73.8	72.8	7.9	27.0	3.5	3.6		16.0	
38	WWA3	M	MID-FLOOD	2-Apr-07	15:33	6.50	24.2	5.52	5.50	5.48	80.1	79.7	7.9	27.4	4.9	4.8		18.0	
39	WWA3	B	MID-FLOOD	2-Apr-07			24.2	5.89	5.88	5.89	81.8	82.4	7.9	27.6	5.7	5.6	4.7	18.0	17.3
40	WRA1	S	MID-FLOOD	2-Apr-07			24.1	5.89	5.86		86.0	85.9	7.9	26.4	3.0	3.1		7.0	
41	WRA1	M	MID-FLOOD	2-Apr-07	14:50	40.30	24.0	6.02	6.00	5.94	85.2	84.9	7.9	27.9	3.2	3.4		6.0	
42	WRA1	B	MID-FLOOD	2-Apr-07			23.6	5.44	5.41	5.43	77.3	76.9	7.9	29.3	3.6	3.7	3.4	5.5	6.2
43	WRA2	S	MID-FLOOD	2-Apr-07			24.1	5.73	5.71		79.6	79.5	7.9	26.5	2.9	2.8		9.5	
44	WRA2	M	MID-FLOOD	2-Apr-07	14:37	35.40	23.8	5.84	5.80	5.77	84.1	83.2	7.9	28.1	2.6	2.8		9.0	
45	WRA2	B	MID-FLOOD	2-Apr-07			23.8	6.13	6.12	6.13	85.5	85.4	7.9	28.9	2.8	2.7	2.7	6.0	8.2

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp, °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
46	WRA3	S	MID-FLOOD	2-Apr-07			24.1	5.47	5.45		78.3	77.6	7.9	26.5	4.0	3.8		8.5	
47	WRA3	M	MID-FLOOD	2-Apr-07	14:25	35.10	23.9	5.71	5.65	5.57	83.1	82.2	7.9	27.4	2.9	2.9		9.0	
48	WRA3	B	MID-FLOOD	2-Apr-07			23.7	5.87	5.74	5.81	86.8	86.0	7.9	28.2	2.9	2.8	3.2	8.5	8.7
49	WWFCZ1	S	MID-FLOOD	2-Apr-07			24.3	5.70	5.62		81.2	80.4	7.9	26.1	4.2	4.2		8.5	
50	WWFCZ1	M	MID-FLOOD	2-Apr-07	13:44	39.80	24.2	5.49	5.48	5.57	76.2	76.0	7.9	26.3	3.3	3.3		6.0	
51	WWFCZ1	B	MID-FLOOD	2-Apr-07			24.0	5.58	5.55	5.57	78.4	77.6	7.9	26.8	3.9	3.8	3.8	12.5	9.0
52	WWFCZ2	S	MID-FLOOD	2-Apr-07			24.1	5.60	5.52		80.6	80.2	7.9	26.3	3.1	3.2		10.5	
53	WWFCZ2	M	MID-FLOOD	2-Apr-07	13:59	40.70	24.0	5.70	5.64	5.62	76.2	75.9	7.9	26.0	3.4	3.4		9.0	
54	WWFCZ2	B	MID-FLOOD	2-Apr-07			23.9	5.49	5.48	5.49	79.6	79.0	7.9	27.0	2.9	2.8	3.1	13.5	11.0
55	WFCZR1	S	MID-FLOOD	2-Apr-07			24.2	5.82	5.76		82.2	80.6	7.9	26.2	3.7	3.8		7.5	
56	WFCZR1	M	MID-FLOOD	2-Apr-07	13:30	39.60	24.0	5.90	5.81	5.82	81.9	78.6	7.9	27.0	3.3	3.4		9.0	
57	WFCZR1	B	MID-FLOOD	2-Apr-07			24.1	5.56	5.50	5.53	79.0	78.9	7.9	26.8	2.6	2.6	3.2	6.5	7.7
58	WFCZR2	S	MID-FLOOD	2-Apr-07			24.2	5.97	5.99		81.6	81.9	7.9	26.3	3.7	3.5		13.0	
59	WFCZR2	M	MID-FLOOD	2-Apr-07	14:12	40.50	24.1	6.06	6.08	6.03	86.2	85.9	7.9	26.0	2.6	2.6		7.5	
60	WFCZR2	B	MID-FLOOD	2-Apr-07			24.0	5.57	5.51	5.54	81.1	80.3	7.9	27.2	5.2	5.1	3.8	10.5	10.3
61	WWA1	S	MID-EBB	4-Apr-07			21.7	5.58	5.65		78.6	77.9	8.0	32.0	7.2	7.1		15.0	
62	WWA1	M	MID-EBB	4-Apr-07	14:25	6.50	21.7	5.49	5.48	5.55	77.3	76.7	8.0	32.0	7.7	7.5		12.5	
63	WWA1	B	MID-EBB	4-Apr-07			21.5	5.40	5.38	5.39	75.6	74.9	8.0	32.0	9.8	9.7	8.1	14.5	14.0
64	WWA2	S	MID-EBB	4-Apr-07			22.3	5.63	5.60		74.9	74.0	8.0	32.1	4.1	4.1		7.0	
65	WWA2	M	MID-EBB	4-Apr-07	14:12	6.80	22.2	5.39	5.36	5.50	76.1	75.2	8.0	32.0	5.1	5.1		9.5	
66	WWA2	B	MID-EBB	4-Apr-07			21.9	5.51	5.47	5.49	76.8	76.4	8.0	32.0	6.7	6.5	5.3	9.0	8.5
67	WWA3	S	MID-EBB	4-Apr-07			22.8	5.60	5.68		72.7	71.7	8.0	31.8	7.1	7.1		8.0	
68	WWA3	M	MID-EBB	4-Apr-07	14:00	6.60	22.6	5.46	5.42	5.54	70.3	69.9	8.0	31.9	7.8	7.6		13.5	
69	WWA3	B	MID-EBB	4-Apr-07			21.9	5.36	5.34	5.35	72.3	71.9	8.0	32.0	6.6	6.4	7.1	11.0	10.8
70	WRA1	S	MID-EBB	4-Apr-07			22.3	5.41	5.45		74.4	74.4	8.0	31.8	11.5	10.7		16.0	
71	WRA1	M	MID-EBB	4-Apr-07	14:38	41.20	22.1	5.64	5.63	5.53	78.1	78.2	8.0	31.9	4.5	4.5		8.0	
72	WRA1	B	MID-EBB	4-Apr-07			22.4	5.48	5.42	5.45	79.1	78.6	8.0	32.2	7.0	7.0	7.5	8.0	10.7
73	WRA2	S	MID-EBB	4-Apr-07			22.3	5.40	5.37		79.7	78.3	8.0	32.0	4.3	4.3		6.5	
74	WRA2	M	MID-EBB	4-Apr-07	14:55	36.50	22.2	5.52	5.49	5.45	78.4	78.0	8.0	31.9	4.6	4.6		6.5	
75	WRA2	B	MID-EBB	4-Apr-07			22.1	5.55	5.46	5.51	79.6	78.2	8.0	32.1	3.1	3.1	4.0	5.0	6.0
76	WRA3	S	MID-EBB	4-Apr-07			22.3	5.43	5.40		74.1	73.4	8.0	32.0	6.0	5.9		7.5	
77	WRA3	M	MID-EBB	4-Apr-07	15:09	35.90	22.3	5.79	5.78	5.60	78.7	78.9	8.0	32.1	4.0	3.9		5.0	
78	WRA3	B	MID-EBB	4-Apr-07			21.8	5.31	5.30	5.31	73.2	72.9	8.0	32.3	3.8	3.8	4.6	5.0	5.8
79	WWFCZ1	S	MID-EBB	4-Apr-07			22.2	5.39	5.36		75.9	74.8	8.0	31.8	3.0	2.9		5.0	
80	WWFCZ1	M	MID-EBB	4-Apr-07	15:50	38.30	21.7	5.81	5.80	5.59	78.6	79.1	8.0	31.8	3.6	3.7		5.0	
81	WWFCZ1	B	MID-EBB	4-Apr-07			21.2	5.50	5.45	5.48	79.3	78.0	8.0	32.0	5.9	5.6	4.1	9.0	6.3
82	WWFCZ2	S	MID-EBB	4-Apr-07			22.2	5.47	5.40		74.5	73.3	8.0	31.8	3.2	3.3		5.0	
83	WWFCZ2	M	MID-EBB	4-Apr-07	15:37	39.20	22.1	5.80	5.78	5.61	82.3	81.6	8.0	31.8	3.3	3.3		7.0	
84	WWFCZ2	B	MID-EBB	4-Apr-07			22.2	5.42	5.37	5.40	78.4	77.0	8.0	32.1	6.5	6.4	4.3	13.5	8.5
85	WFCZR1	S	MID-EBB	4-Apr-07			21.8	5.45	5.42		78.3	76.7	8.0	32.1	3.6	3.5		5.5	
86	WFCZR1	M	MID-EBB	4-Apr-07	16:02	38.70	21.8	5.36	5.40	5.41	76.8	75.8	8.0	32.3	3.5	3.5		5.0	
87	WFCZR1	B	MID-EBB	4-Apr-07			21.9	5.73	5.60	5.67	78.3	77.9	8.0	32.1	4.6	4.7	3.9	7.5	6.0
88	WFCZR2	S	MID-EBB	4-Apr-07			22.2	5.36	5.34		75.0	74.7	8.0	31.7	2.5	2.4		5.0	
89	WFCZR2	M	MID-EBB	4-Apr-07	15:23	39.50	22.1	5.81	5.77	5.57	82.0	81.6	8.0	31.7	3.2	3.2		6.0	

HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau – Environmental Monitoring & Audit Service
Marine Water Quality Impact Monitoring - April 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
90	WFCZR2	B	MID-EBB	4-Apr-07			21.9	5.50	5.48	5.49	75.2	74.6	8.0	32.0	5.0	5.1	3.6	8.5	6.5
91	WWA1	S	MID-FLOOD	4-Apr-07			22.3	5.40	5.37		76.4	77.6	8.0	32.6	6.6	6.6		5.0	
92	WWA1	M	MID-FLOOD	4-Apr-07	10:35	6.70	22.3	5.18	5.49	5.36	76.2	76.1	8.0	32.6	6.5	6.4		6.0	
93	WWA1	B	MID-FLOOD	4-Apr-07			22.0	5.51	5.48	5.50	78.1	77.3	8.0	32.8	7.2	7.4	6.8	7.0	6.0
94	WWA2	S	MID-FLOOD	4-Apr-07			21.6	5.42	5.40		76.6	75.9	8.0	32.5	4.3	4.1		5.0	
95	WWA2	M	MID-FLOOD	4-Apr-07	10:51	7.10	21.9	5.44	5.42	5.42	77.1	76.6	8.0	32.5	4.7	4.6		5.5	
96	WWA2	B	MID-FLOOD	4-Apr-07			22.1	5.50	5.46	5.48	74.3	74.0	8.0	32.7	5.3	5.2	4.7	7.0	5.8
97	WWA3	S	MID-FLOOD	4-Apr-07			22.0	5.51	5.48		76.4	75.2	8.0	32.6	7.1	7.1		6.5	
98	WWA3	M	MID-FLOOD	4-Apr-07	11:06	6.80	21.8	5.50	5.42	5.48	75.4	76.2	8.0	32.6	7.2	7.2		6.5	
99	WWA3	B	MID-FLOOD	4-Apr-07			21.5	5.40	5.40	5.40	77.4	76.7	8.0	32.7	6.9	6.8	7.0	5.0	6.0
100	WRA1	S	MID-FLOOD	4-Apr-07			22.2	5.54	5.50		74.2	74.3	8.0	32.0	8.7	8.6		5.5	
101	WRA1	M	MID-FLOOD	4-Apr-07	10:20	42.30	22.0	5.57	5.64	5.56	76.6	76.9	8.0	32.2	5.5	5.8		6.0	
102	WRA1	B	MID-FLOOD	4-Apr-07			21.8	5.72	5.70	5.71	81.0	80.4	8.0	32.5	6.9	6.8	7.0	5.5	5.7
103	WRA2	S	MID-FLOOD	4-Apr-07			22.3	5.50	5.41		75.8	75.4	8.0	31.9	5.0	5.2		5.0	
104	WRA2	M	MID-FLOOD	4-Apr-07	10:08	37.50	22.2	5.30	5.26	5.37	76.7	76.1	8.0	32.2	5.2	5.2		5.0	
105	WRA2	B	MID-FLOOD	4-Apr-07			22.2	5.60	5.54	5.57	78.2	78.0	8.0	32.4	3.3	3.4	4.6	6.0	5.3
106	WRA3	S	MID-FLOOD	4-Apr-07			22.3	5.49	5.42		70.3	70.5	8.0	32.5	4.7	4.8		6.0	
107	WRA3	M	MID-FLOOD	4-Apr-07	9:53	36.40	21.9	5.60	5.58	5.52	75.4	74.9	8.0	32.0	4.0	4.1		7.0	
108	WRA3	B	MID-FLOOD	4-Apr-07			22.3	5.47	5.44	5.46	76.6	76.2	8.0	32.7	3.9	3.9	4.2	8.0	7.0
109	WWFCZ1	S	MID-FLOOD	4-Apr-07			22.2	5.57	5.56		69.5	69.3	8.0	31.9	3.3	3.4		6.0	
110	WWFCZ1	M	MID-FLOOD	4-Apr-07	9:13	40.10	22.0	5.67	5.68	5.62	70.0	69.5	8.0	32.1	4.0	4.2		11.0	
111	WWFCZ1	B	MID-FLOOD	4-Apr-07			21.9	5.69	5.68	5.69	70.9	70.8	8.0	32.3	5.6	5.5	4.3	7.0	8.0
112	WWFCZ2	S	MID-FLOOD	4-Apr-07			22.2	5.70	5.69		71.3	71.2	8.0	31.8	4.3	4.1		7.5	
113	WWFCZ2	M	MID-FLOOD	4-Apr-07	9:28	39.50	22.3	5.75	5.73	5.72	72.0	71.9	8.0	32.2	3.2	3.4		7.5	
114	WWFCZ2	B	MID-FLOOD	4-Apr-07			22.6	5.60	5.52	5.56	73.7	74.0	8.0	32.2	5.2	5.1	4.2	6.0	7.0
115	WFCZR1	S	MID-FLOOD	4-Apr-07			23.0	5.70	5.71		70.6	70.5	8.0	31.9	4.0	3.8		7.5	
116	WFCZR1	M	MID-FLOOD	4-Apr-07	9:00	39.70	21.8	5.70	5.68	5.70	70.4	70.0	8.0	31.8	5.2	5.4		10.5	
117	WFCZR1	B	MID-FLOOD	4-Apr-07			21.7	5.63	5.62	5.63	70.0	70.0	8.0	32.4	4.2	4.2	4.5	11.0	9.7
118	WFCZR2	S	MID-FLOOD	4-Apr-07			22.6	5.74	5.70		80.4	80.0	8.0	31.8	3.1	3.2		5.5	
119	WFCZR2	M	MID-FLOOD	4-Apr-07	9:40	41.10	22.3	5.61	5.65	5.68	85.0	84.9	8.0	32.2	3.4	3.5		8.5	
120	WFCZR2	B	MID-FLOOD	4-Apr-07			22.4	5.68	5.70	5.69	84.4	82.2	8.0	32.3	2.8	3.0	3.2	9.0	7.7
121	WWA1	S	MID-EBB	10-Apr-07			21.9	5.63	5.61		81.4	80.4	8.0	33.1	2.8	2.8		5.0	
122	WWA1	M	MID-EBB	10-Apr-07	15:21	6.50	21.9	5.86	5.85	5.74	81.6	81.4	8.0	33.1	2.9	2.8		5.5	
123	WWA1	B	MID-EBB	10-Apr-07			21.7	5.55	5.52	5.54	79.2	78.5	8.0	33.2	3.0	3.2	2.9	7.5	6.0
124	WWA2	S	MID-EBB	10-Apr-07			21.8	5.53	5.49		79.9	78.8	8.0	33.2	3.0	2.9		5.0	
125	WWA2	M	MID-EBB	10-Apr-07	15:08	6.70	21.9	5.59	5.52	5.53	73.3	72.7	8.0	33.0	3.1	3.2		5.0	
126	WWA2	B	MID-EBB	10-Apr-07			21.9	5.42	5.38	5.40	77.4	76.8	8.0	32.9	2.5	2.7	2.9	8.0	6.0
127	WWA3	S	MID-EBB	10-Apr-07			21.9	5.69	5.65		82.0	81.3	8.0	32.8	2.5	2.5		5.0	
128	WWA3	M	MID-EBB	10-Apr-07	15:00	6.20	22.1	5.66	5.65	5.66	78.9	78.8	8.0	32.9	2.5	2.4		5.0	
129	WWA3	B	MID-EBB	10-Apr-07			22.0	5.60	5.56	5.58	77.0	76.2	8.0	32.9	3.1	3.3	2.7	5.5	5.2
130	WRA1	S	MID-EBB	10-Apr-07			21.9	5.71	5.68		81.4	80.7	8.0	33.1	2.7	2.5		7.5	
131	WRA1	M	MID-EBB	10-Apr-07	15:37	40.50	21.5	5.50	5.46	5.59	76.2	75.8	8.0	33.0	3.3	3.2		6.5	
132	WRA1	B	MID-EBB	10-Apr-07			21.6	5.48	5.42	5.45	77.6	76.2	8.0	32.6	2.6	2.7	2.8	7.0	7.0
133	WRA2	S	MID-EBB	10-Apr-07			21.9	5.62	5.46		72.4	72.0	8.0	33.1	2.5	2.3		5.0	

HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau – Environmental Monitoring & Audit Service
Marine Water Quality Impact Monitoring - April 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
134	WRA2	M	MID-EBB	10-Apr-07	15:50	39.20	21.9	5.86	5.87	5.70	81.5	81.3	8.0	33.1	3.1	3.1		6.0	
135	WRA2	B	MID-EBB	10-Apr-07			21.9	5.77	5.73	5.75	82.2	81.8	8.0	33.0	3.3	3.2	2.9	6.0	5.7
136	WRA3	S	MID-EBB	10-Apr-07			21.8	5.35	5.38		79.9	75.1	8.0	33.1	2.1	2.2		5.0	
137	WRA3	M	MID-EBB	10-Apr-07	16:03	37.10	21.8	5.89	5.87	5.62	82.5	82.3	8.0	33.2	2.5	2.6		6.0	
138	WRA3	B	MID-EBB	10-Apr-07			21.7	5.45	5.49	5.47	74.8	74.0	8.0	33.1	2.9	2.8	2.5	8.5	6.5
139	WWFCZ1	S	MID-EBB	10-Apr-07			22.3	5.56	5.65		75.4	74.8	8.0	33.0	3.7	3.7		17.0	
140	WWFCZ1	M	MID-EBB	10-Apr-07	16:44	39.30	22.2	5.50	5.52	5.56	73.2	72.9	8.0	32.9	2.8	2.9		13.0	
141	WWFCZ1	B	MID-EBB	10-Apr-07			22.3	5.52	5.49	5.51	79.8	78.5	8.0	32.9	3.2	3.4	3.3	13.5	14.5
142	WWFCZ2	S	MID-EBB	10-Apr-07			22.2	5.42	5.40		72.0	71.5	8.0	33.0	2.6	2.6		13.0	
143	WWFCZ2	M	MID-EBB	10-Apr-07	16:30	37.60	22.2	5.56	5.62	5.50	71.0	70.8	8.0	33.0	2.5	2.6		5.5	
144	WWFCZ2	B	MID-EBB	10-Apr-07			22.0	5.40	5.42	5.41	76.5	76.1	8.0	33.1	1.8	1.9	2.3	16.5	11.7
145	WFCZR1	S	MID-EBB	10-Apr-07			22.4	5.36	5.35		71.3	71.1	8.0	32.8	2.4	2.6		5.0	
146	WFCZR1	M	MID-EBB	10-Apr-07	16:59	41.20	22.3	5.65	5.62	5.50	78.9	78.8	8.0	33.0	2.9	2.9		5.0	
147	WFCZR1	B	MID-EBB	10-Apr-07			22.2	5.78	5.77	5.78	80.2	80.0	8.0	33.0	3.2	3.4	2.9	14.0	8.0
148	WFCZR2	S	MID-EBB	10-Apr-07			22.1	5.56	5.50		76.4	75.7	8.0	33.0	3.1	3.3		5.5	
149	WFCZR2	M	MID-EBB	10-Apr-07	16:17	41.30	22.0	5.48	5.43	5.49	79.8	79.3	8.0	33.1	2.7	2.5		11.0	
150	WFCZR2	B	MID-EBB	10-Apr-07			22.0	5.65	5.63	5.64	81.4	81.0	8.0	33.0	3.2	3.4	3.0	14.0	10.2
151	WWA1	S	MID-FLOOD	10-Apr-07			22.1	5.40	5.41		73.2	73.3	8.0	32.6	2.7	2.7		9.0	
152	WWA1	M	MID-FLOOD	10-Apr-07	10:25	6.80	21.8	5.38	5.35	5.39	72.0	71.6	8.0	32.7	2.8	2.6		8.0	
153	WWA1	B	MID-FLOOD	10-Apr-07			21.6	5.35	5.33	5.34	77.2	76.7	8.0	32.8	3.5	3.5	3.0	6.5	7.8
154	WWA2	S	MID-FLOOD	10-Apr-07			22.2	5.46	5.42		77.5	76.5	8.0	32.7	2.7	2.7		7.0	
155	WWA2	M	MID-FLOOD	10-Apr-07	10:12	6.90	22.2	5.46	5.38	5.43	82.7	81.4	8.0	32.6	2.3	2.4		5.5	
156	WWA2	B	MID-FLOOD	10-Apr-07			22.1	5.30	5.31	5.31	74.4	74.1	8.0	32.7	2.8	2.8	2.6	5.5	6.0
157	WWA3	S	MID-FLOOD	10-Apr-07			23.0	5.42	5.40		82.5	80.3	8.0	31.9	2.5	2.5		8.0	
158	WWA3	M	MID-FLOOD	10-Apr-07	10:00	6.60	22.2	5.46	5.42	5.43	77.1	75.8	8.0	32.5	3.0	3.1		6.0	
159	WWA3	B	MID-FLOOD	10-Apr-07			22.2	5.43	5.49	5.46	77.7	77.1	8.0	32.6	2.8	2.8	2.8	7.5	7.2
160	WRA1	S	MID-FLOOD	10-Apr-07			21.6	5.70	5.71		80.9	80.0	8.0	33.0	2.7	2.8		5.0	
161	WRA1	M	MID-FLOOD	10-Apr-07	10:38	41.20	21.6	5.42	5.39	5.56	80.1	76.3	8.0	32.9	3.1	3.1		7.0	
162	WRA1	B	MID-FLOOD	10-Apr-07			21.7	5.50	5.42	5.46	76.6	75.5	8.0	32.8	2.9	2.8	2.9	5.0	5.7
163	WRA2	S	MID-FLOOD	10-Apr-07			22.0	5.76	5.70		75.8	75.2	8.0	32.8	2.3	2.5		6.0	
164	WRA2	M	MID-FLOOD	10-Apr-07	10:50	38.10	21.9	5.62	5.60	5.67	77.8	77.5	8.0	32.8	2.7	2.8		6.0	
165	WRA2	B	MID-FLOOD	10-Apr-07			21.8	5.60	5.49	5.55	75.6	73.8	8.0	33.4	3.5	3.5	2.9	6.0	6.0
166	WRA3	S	MID-FLOOD	10-Apr-07			22.1	5.80	5.76		77.9	75.8	8.0	32.9	1.7	1.8		7.5	
167	WRA3	M	MID-FLOOD	10-Apr-07	11:02	36.50	22.0	5.66	5.60	5.71	76.9	77.0	8.0	32.8	2.9	2.8		6.5	
168	WRA3	B	MID-FLOOD	10-Apr-07			21.8	5.67	5.60	5.64	73.3	73.2	8.0	32.9	2.7	2.7	2.4	5.5	6.5
169	WWFCZ1	S	MID-FLOOD	10-Apr-07			22.0	5.58	5.61		76.0	76.3	8.0	32.8	3.5	3.6		8.5	
170	WWFCZ1	M	MID-FLOOD	10-Apr-07	11:44	39.50	21.8	5.49	5.41	5.52	79.0	78.0	8.0	32.8	2.9	2.8		7.0	
171	WWFCZ1	B	MID-FLOOD	10-Apr-07			21.7	5.50	5.42	5.46	75.9	74.8	8.0	32.9	3.1	3.2	3.2	10.0	8.5
172	WWFCZ2	S	MID-FLOOD	10-Apr-07			22.0	5.76	5.75		79.1	79.3	8.0	32.8	2.8	2.8		9.0	
173	WWFCZ2	M	MID-FLOOD	10-Apr-07	11:30	38.70	21.6	5.77	5.81	5.77	78.2	78.5	8.0	32.8	2.7	2.5		8.0	
174	WWFCZ2	B	MID-FLOOD	10-Apr-07			21.1	5.85	5.82	5.84	83.4	82.8	8.0	33.0	3.0	3.2	2.8	11.0	9.3
175	WFCZR1	S	MID-FLOOD	10-Apr-07			21.8	5.36	5.37		82.2	80.8	8.0	32.8	3.0	2.8		6.0	
176	WFCZR1	M	MID-FLOOD	10-Apr-07	11:58	40.50	21.7	5.77	5.75	5.56	80.0	79.8	8.0	32.8	2.5	2.6		8.5	
177	WFCZR1	B	MID-FLOOD	10-Apr-07			21.5	5.60	5.52	5.56	76.8	75.2	8.0	33.0	3.5	3.4	2.9	5.5	6.7

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
178	WFCZR2	S	MID-FLOOD	10-Apr-07			21.9	5.60	5.52		75.9	75.7	8.0	32.9	3.3	3.4		6.5	
179	WFCZR2	M	MID-FLOOD	10-Apr-07	11:17	42.20	21.9	5.41	5.50	5.51	74.0	73.0	8.0	32.8	2.8	2.2		7.0	
180	WFCZR2	B	MID-FLOOD	10-Apr-07			21.8	5.82	5.75	5.79	78.8	79.1	8.0	32.8	3.1	3.2	3.0	7.5	7.0
181	WWA1	S	MID-EBB	12-Apr-07			22.2	5.79	5.72		78.5	78.2	7.9	32.6	2.4	2.5		5.5	
182	WWA1	M	MID-EBB	12-Apr-07	9:25	6.60	22.5	5.60	5.55	5.67	77.6	77.3	7.9	32.7	2.4	2.4		6.5	
183	WWA1	B	MID-EBB	12-Apr-07			22.5	5.59	5.50	5.55	82.3	82.1	7.9	32.6	2.9	2.9	2.6	9.0	7.0
184	WWA2	S	MID-EBB	12-Apr-07			23.1	5.64	5.60		77.0	77.0	7.9	32.4	1.6	1.6		7.0	
185	WWA2	M	MID-EBB	12-Apr-07	9:12	6.90	22.8	5.47	5.42	5.53	80.1	79.1	7.9	32.5	1.8	1.9		8.0	
186	WWA2	B	MID-EBB	12-Apr-07			22.8	5.58	5.57	5.58	79.0	78.9	7.9	32.7	2.1	2.5	1.9	6.0	7.0
187	WWA3	S	MID-EBB	12-Apr-07			24.1	5.50	5.45		75.9	74.6	7.9	31.8	2.0	1.8		6.5	
188	WWA3	M	MID-EBB	12-Apr-07	9:00	6.40	23.7	5.42	5.40	5.44	76.1	76.0	7.9	32.2	2.1	2.2		5.5	
189	WWA3	B	MID-EBB	12-Apr-07			23.2	5.53	5.49	5.51	77.4	77.3	7.9	32.2	1.9	1.8	1.9	6.0	6.0
190	WRA1	S	MID-EBB	12-Apr-07			22.4	5.67	5.62		80.6	80.7	7.9	32.5	2.0	2.1		6.5	
191	WRA1	M	MID-EBB	12-Apr-07	9:38	41.20	22.2	5.70	5.61	5.65	80.5	80.1	7.9	32.7	1.9	1.8		6.0	
192	WRA1	B	MID-EBB	12-Apr-07			22.6	5.56	5.50	5.53	86.2	85.6	7.9	32.5	2.3	2.4	2.1	6.5	6.3
193	WRA2	S	MID-EBB	12-Apr-07			22.4	5.89	5.80		88.4	88.3	7.9	32.8	1.9	1.9		5.0	
194	WRA2	M	MID-EBB	12-Apr-07	9:52	40.50	22.0	5.67	5.62	5.75	85.3	85.7	7.9	32.8	2.1	2.3		5.0	
195	WRA2	B	MID-EBB	12-Apr-07			22.3	5.51	5.44	5.48	81.2	70.7	7.9	32.7	1.9	1.8	2.0	5.0	5.0
196	WRA3	S	MID-EBB	12-Apr-07			22.4	5.60	5.55		79.9	78.9	7.9	32.7	1.8	1.9		5.0	
197	WRA3	M	MID-EBB	12-Apr-07	10:04	37.90	22.3	5.52	5.51	5.55	76.5	76.4	7.9	32.7	1.7	1.7		5.0	
198	WRA3	B	MID-EBB	12-Apr-07			21.9	5.56	5.52	5.54	78.0	77.2	7.9	32.6	2.0	1.8	1.8	5.0	5.0
199	WWFCZ1	S	MID-EBB	12-Apr-07			21.9	5.86	5.80		78.2	76.9	7.9	33.0	2.4	2.4		5.0	
200	WWFCZ1	M	MID-EBB	12-Apr-07	10:47	40.50	22.2	5.69	5.71	5.77	77.2	77.9	7.9	32.9	2.5	2.5		12.0	
201	WWFCZ1	B	MID-EBB	12-Apr-07			22.1	5.81	5.83	5.82	82.2	81.6	7.9	32.8	2.5	2.5	2.5	5.5	7.5
202	WWFCZ2	S	MID-EBB	12-Apr-07			22.2	5.60	5.52		76.2	75.9	7.9	32.9	1.6	1.6		8.0	
203	WWFCZ2	M	MID-EBB	12-Apr-07	10:33	38.30	22.2	5.88	5.79	5.70	83.3	82.0	7.9	33.2	2.8	2.8		5.0	
204	WWFCZ2	B	MID-EBB	12-Apr-07			22.1	5.70	5.65	5.68	80.1	80.9	7.9	33.1	2.5	2.4	2.3	5.5	6.2
205	WFCZR1	S	MID-EBB	12-Apr-07			22.2	5.79	5.76		77.1	76.3	7.9	32.6	2.2	2.3		5.0	
206	WFCZR1	M	MID-EBB	12-Apr-07	11:00	41.60	22.5	5.66	5.60	5.70	82.2	80.6	7.9	32.3	2.3	2.4		5.0	
207	WFCZR1	B	MID-EBB	12-Apr-07			22.5	5.76	5.62	5.69	71.0	70.4	7.9	32.5	2.0	1.6	2.1	6.5	5.5
208	WFCZR2	S	MID-EBB	12-Apr-07			22.2	5.62	5.64		76.5	77.0	7.9	32.8	2.3	2.4		5.0	
209	WFCZR2	M	MID-EBB	12-Apr-07	10:20	42.10	22.0	5.91	5.82	5.75	81.7	81.0	7.9	33.0	2.0	2.1		5.0	
210	WFCZR2	B	MID-EBB	12-Apr-07			22.1	5.64	5.60	5.62	81.6	80.5	7.9	32.9	2.5	2.5	2.3	5.5	5.2
211	WWA1	S	MID-FLOOD	12-Apr-07			22.9	5.60	5.52		79.5	76.5	7.9	32.8	2.5	2.7		7.0	
212	WWA1	M	MID-FLOOD	12-Apr-07	13:58	6.80	22.8	5.48	5.41	5.50	80.4	79.4	7.9	32.7	2.6	2.7		5.0	
213	WWA1	B	MID-FLOOD	12-Apr-07			22.9	5.69	5.68	5.69	77.3	78.0	7.9	32.3	3.1	3.3	2.8	5.5	5.8
214	WWA2	S	MID-FLOOD	12-Apr-07			23.0	5.64	5.47		83.5	82.4	7.9	32.6	1.5	1.5		5.0	
215	WWA2	M	MID-FLOOD	12-Apr-07	13:45	7.30	22.6	5.50	5.46	5.52	81.1	80.9	7.9	32.8	1.7	1.6		5.0	
216	WWA2	B	MID-FLOOD	12-Apr-07			23.0	5.57	5.49	5.53	80.2	79.6	7.9	32.8	2.1	2.2	1.8	13.0	7.7
217	WWA3	S	MID-FLOOD	12-Apr-07			22.8	5.92	5.91		82.5	82.4	7.9	32.8	2.3	2.3		10.0	
218	WWA3	M	MID-FLOOD	12-Apr-07	13:30	6.80	22.8	5.80	5.72	5.84	87.9	86.7	7.9	32.8	2.5	2.5		11.0	
219	WWA3	B	MID-FLOOD	12-Apr-07			22.8	5.60	5.51	5.56	87.0	85.6	7.9	32.8	2.0	1.9	2.2	5.0	8.7
220	WRA1	S	MID-FLOOD	12-Apr-07			22.3	5.59	5.52		75.8	76.1	7.9	32.8	2.2	2.3		5.0	
221	WRA1	M	MID-FLOOD	12-Apr-07	14:07	41.70	22.3	5.91	5.92	5.74	83.5	82.1	7.9	32.8	2.0	1.9		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, Averaged Value
222	WRA1	B	MID-FLOOD	12-Apr-07			22.4	5.77	5.74	5.76	80.7	80.9	7.9	32.8	2.4	2.4	2.2	5.0	5.0
223	WRA2	S	MID-FLOOD	12-Apr-07			22.8	5.60	5.53		73.5	73.4	7.9	32.7	2.1	2.2		5.5	
224	WRA2	M	MID-FLOOD	12-Apr-07	14:19	40.90	22.5	5.68	5.72	5.63	78.4	78.1	7.9	32.8	3.2	3.3		5.0	
225	WRA2	B	MID-FLOOD	12-Apr-07			21.9	5.58	5.52	5.55	86.5	83.5	7.9	33.1	2.1	2.2	2.5	5.0	5.2
226	WRA3	S	MID-FLOOD	12-Apr-07			22.3	5.53	5.52		81.6	80.6	7.9	32.8	2.3	2.5		8.0	
227	WRA3	M	MID-FLOOD	12-Apr-07	14:32	38.50	22.7	5.60	5.51	5.54	82.6	80.6	7.9	32.7	2.0	1.9		5.0	
228	WRA3	B	MID-FLOOD	12-Apr-07			22.5	5.64	5.61	5.63	81.4	80.7	7.9	32.7	2.1	2.2	2.2	5.0	6.0
229	WWFCZ1	S	MID-FLOOD	12-Apr-07			22.7	5.93	5.92		79.1	79.3	7.9	32.6	2.5	2.5		5.0	
230	WWFCZ1	M	MID-FLOOD	12-Apr-07	15:07	41.20	22.5	5.99	6.00	5.96	81.7	81.4	7.9	32.8	3.1	3.2		5.0	
231	WWFCZ1	B	MID-FLOOD	12-Apr-07			22.4	5.76	5.73	5.75	84.6	84.8	7.9	32.7	2.5	2.5	2.7	5.0	5.0
232	WWFCZ2	S	MID-FLOOD	12-Apr-07			22.5	5.52	5.48		80.4	78.7	7.9	32.8	2.2	2.3		5.0	
233	WWFCZ2	M	MID-FLOOD	12-Apr-07	14:58	38.60	22.6	5.49	5.52	5.50	78.6	77.6	7.9	32.8	2.5	2.5		5.0	
234	WWFCZ2	B	MID-FLOOD	12-Apr-07			22.3	5.40	5.39	5.40	76.7	76.6	7.9	32.7	3.3	3.4	2.7	5.5	5.2
235	WFCZR1	S	MID-FLOOD	12-Apr-07			23.6	5.53	5.50		76.5	75.4	7.9	32.4	3.2	3.4		5.0	
236	WFCZR1	M	MID-FLOOD	12-Apr-07	15:19	41.50	23.1	5.66	5.65	5.59	76.7	76.4	7.9	32.6	2.7	2.6		5.0	
237	WFCZR1	B	MID-FLOOD	12-Apr-07			22.6	5.75	5.75	5.75	76.5	76.4	7.9	32.7	2.5	2.7	2.8	5.0	5.0
238	WFCZR2	S	MID-FLOOD	12-Apr-07			22.3	5.55	5.51		80.7	79.7	7.9	32.8	3.2	3.2		5.0	
239	WFCZR2	M	MID-FLOOD	12-Apr-07	14:44	42.70	22.4	5.56	5.58	5.55	76.7	77.0	7.9	32.7	3.4	3.5		5.0	
240	WFCZR2	B	MID-FLOOD	12-Apr-07			22.5	5.64	5.62	5.63	80.7	80.3	7.9	32.7	2.8	2.5	3.1	5.5	5.2
241	WWA1	S	MID-EBB	14-Apr-07			25.1	5.46	5.42		87.6	86.3	7.9	29.0	3.1	3.3		6.0	
242	WWA1	M	MID-EBB	14-Apr-07	10:52	6.50	25.0	5.66	5.59	5.54	88.2	87.5	7.9	29.1	2.7	2.7		6.5	
243	WWA1	B	MID-EBB	14-Apr-07			25.0	5.87	5.82	5.85	85.4	83.8	7.9	29.1	3.8	3.8	3.2	7.0	6.5
244	WWA2	S	MID-EBB	14-Apr-07			25.3	5.77	5.71		86.9	85.2	7.9	29.2	3.1	3.4		5.0	
245	WWA2	M	MID-EBB	14-Apr-07	10:40	6.90	25.2	5.83	5.76	5.77	84.7	83.6	7.9	29.1	3.6	3.7		5.0	
246	WWA2	B	MID-EBB	14-Apr-07			25.2	5.48	5.42	5.45	85.4	83.8	7.9	29.1	3.1	3.2	3.3	5.0	5.0
247	WWA3	S	MID-EBB	14-Apr-07			25.4	5.92	5.87		88.3	87.6	7.9	28.7	3.4	3.4		5.0	
248	WWA3	M	MID-EBB	14-Apr-07	10:30	6.40	25.3	5.88	5.74	5.85	84.2	83.7	7.9	28.7	3.4	3.4		5.5	
249	WWA3	B	MID-EBB	14-Apr-07			25.2	5.57	5.49	5.53	86.5	85.1	7.9	28.7	3.0	2.9	3.2	5.0	5.2
250	WRA1	S	MID-EBB	14-Apr-07			25.3	5.67	5.58		85.7	84.6	7.9	29.2	3.6	3.5		5.5	
251	WRA1	M	MID-EBB	14-Apr-07	11:04	40.80	25.2	5.49	5.41	5.54	85.4	85.1	7.9	29.1	3.4	3.4		6.5	
252	WRA1	B	MID-EBB	14-Apr-07			25.2	5.72	5.68	5.70	86.9	86.2	7.9	29.1	3.6	3.6	3.5	6.0	6.0
253	WRA2	S	MID-EBB	14-Apr-07			25.4	5.77	5.74		88.3	87.6	7.9	29.2	3.4	3.7		5.5	
254	WRA2	M	MID-EBB	14-Apr-07	11:20	39.70	25.3	5.81	5.79	5.78	87.3	86.8	7.9	29.2	3.1	3.2		5.0	
255	WRA2	B	MID-EBB	14-Apr-07			25.2	5.65	5.63	5.64	85.2	84.9	7.9	29.2	3.4	3.6	3.4	5.0	5.2
256	WRA3	S	MID-EBB	14-Apr-07			25.3	5.48	5.42		83.7	85.1	7.9	29.0	3.0	3.1		5.0	
257	WRA3	M	MID-EBB	14-Apr-07	11:33	38.20	25.3	5.67	5.62	5.55	84.8	85.2	7.9	29.0	2.9	2.9		6.0	
258	WRA3	B	MID-EBB	14-Apr-07			25.2	5.89	5.88	5.89	86.3	85.7	7.9	29.0	3.0	3.1	3.0	5.0	5.3
259	WWFCZ1	S	MID-EBB	14-Apr-07			25.2	5.76	5.71		83.5	82.7	7.9	29.4	2.9	2.8		5.0	
260	WWFCZ1	M	MID-EBB	14-Apr-07	12:20	40.10	25.1	5.84	5.88	5.80	88.6	85.2	7.9	29.3	2.8	2.8		5.0	
261	WWFCZ1	B	MID-EBB	14-Apr-07			25.1	5.78	5.76	5.77	84.7	83.6	7.9	29.3	3.4	3.4	3.0	6.5	5.5
262	WWFCZ2	S	MID-EBB	14-Apr-07			25.3	5.49	5.51		85.1	84.7	7.9	29.5	3.0	3.0		5.0	
263	WWFCZ2	M	MID-EBB	14-Apr-07	12:07	38.20	25.2	5.62	5.57	5.55	86.9	85.2	7.9	29.4	2.8	2.7		5.0	
264	WWFCZ2	B	MID-EBB	14-Apr-07			25.2	5.65	5.62	5.64	82.7	81.3	7.9	29.4	3.4	3.4	3.0	5.5	5.2
265	WFCZR1	S	MID-EBB	14-Apr-07			25.3	5.77	5.73		85.1	84.8	7.9	29.3	3.1	3.1		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, Averaged Value
266	WFCZR1	M	MID-EBB	14-Apr-07	12:34	40.50	25.3	5.71	5.68	5.72	82.1	80.9	7.9	29.3	2.2	2.5		5.0	
267	WFCZR1	B	MID-EBB	14-Apr-07			25.2	5.63	5.58	5.61	83.6	82.7	7.9	29.3	3.2	3.2	2.9	5.0	5.3
268	WFCZR2	S	MID-EBB	14-Apr-07			25.1	5.92	5.87		89.5	87.2	7.9	29.2	2.8	3.0		5.0	
269	WFCZR2	M	MID-EBB	14-Apr-07	11:45	40.50	25.1	5.65	5.61	5.76	86.3	87.1	7.9	29.2	3.1	3.1		5.5	
270	WFCZR2	B	MID-EBB	14-Apr-07			25.1	5.58	5.48	5.53	86.9	87.1	7.9	29.2	3.8	3.7	3.2	5.0	5.2
271	WWA1	S	MID-FLOOD	14-Apr-07			25.3	5.57	5.51		84.3	83.9	7.9	29.2	2.6	2.7		5.0	
272	WWA1	M	MID-FLOOD	14-Apr-07	15:20	6.70	25.3	5.49	5.46	5.51	86.2	85.7	7.9	29.1	3.2	3.3		5.5	
273	WWA1	B	MID-FLOOD	14-Apr-07			25.2	5.83	5.76	5.80	84.9	84.2	7.9	29.1	3.1	3.1	3.0	6.5	5.7
274	WWA2	S	MID-FLOOD	14-Apr-07			25.1	5.72	5.69		85.7	84.6	7.9	29.2	3.3	3.3		5.0	
275	WWA2	M	MID-FLOOD	14-Apr-07	15:09	7.10	25.1	5.56	5.51	5.63	82.1	80.3	7.9	29.2	4.1	4.2		5.5	
276	WWA2	B	MID-FLOOD	14-Apr-07			25.0	5.48	5.44	5.46	82.6	81.7	7.9	29.1	4.2	4.1	3.9	5.5	5.3
277	WWA3	S	MID-FLOOD	14-Apr-07			25.5	5.76	5.75		87.5	86.1	7.9	29.0	2.1	2.9		6.0	
278	WWA3	M	MID-FLOOD	14-Apr-07	15:00	6.60	25.4	5.65	5.62	5.70	84.9	84.2	7.9	29.0	2.9	2.9		5.5	
279	WWA3	B	MID-FLOOD	14-Apr-07			25.4	5.58	5.51	5.55	85.3	85.2	7.9	29.0	2.1	2.1	2.5	5.5	5.7
280	WRA1	S	MID-FLOOD	14-Apr-07			25.3	5.82	5.76		84.9	84.2	7.9	29.3	2.1	2.1		5.5	
281	WRA1	M	MID-FLOOD	14-Apr-07	15:30	41.40	25.3	5.85	5.81	5.81	86.7	85.4	7.9	29.5	3.0	3.1		5.5	
282	WRA1	B	MID-FLOOD	14-Apr-07			25.1	5.69	5.51	5.60	84.1	83.8	7.9	29.4	3.2	3.4	2.8	7.5	6.2
283	WRA2	S	MID-FLOOD	14-Apr-07			25.4	5.47	5.42		87.5	86.6	7.9	28.7	3.3	3.4		5.5	
284	WRA2	M	MID-FLOOD	14-Apr-07	15:42	40.50	25.3	5.38	5.41	5.42	86.3	85.4	7.9	28.7	3.0	2.8		5.5	
285	WRA2	B	MID-FLOOD	14-Apr-07			25.3	5.85	5.81	5.83	84.7	84.1	7.9	28.7	2.5	2.5	2.9	5.5	5.5
286	WRA3	S	MID-FLOOD	14-Apr-07			25.2	5.66	5.61		88.6	88.1	7.9	29.5	3.1	3.3		5.0	
287	WRA3	M	MID-FLOOD	14-Apr-07	15:53	36.70	25.2	5.74	5.72	5.68	85.3	84.6	7.9	29.6	3.4	3.4		5.5	
288	WRA3	B	MID-FLOOD	14-Apr-07			25.2	5.48	5.41	5.45	85.2	84.9	7.9	29.6	3.2	3.1	3.2	5.5	5.3
289	WWFCZ1	S	MID-FLOOD	14-Apr-07			25.5	5.69	5.71		84.5	83.7	7.9	28.1	3.0	3.1		5.5	
290	WWFCZ1	M	MID-FLOOD	14-Apr-07	16:32	40.90	25.4	5.48	5.43	5.58	87.5	86.3	7.9	28.8	3.1	3.3		5.0	
291	WWFCZ1	B	MID-FLOOD	14-Apr-07			25.4	5.51	5.44	5.48	82.7	81.5	7.9	28.8	3.5	3.6	3.2	5.5	5.3
292	WWFCZ2	S	MID-FLOOD	14-Apr-07			25.3	5.53	5.49		84.4	84.2	7.9	29.1	2.8	3.0		5.0	
293	WWFCZ2	M	MID-FLOOD	14-Apr-07	16:20	38.60	25.3	5.68	5.61	5.58	86.7	86.5	7.9	29.1	2.8	2.8		5.0	
294	WWFCZ2	B	MID-FLOOD	14-Apr-07			25.2	5.69	5.63	5.66	87.3	86.9	7.9	29.1	3.2	3.4	3.0	5.0	5.0
295	WFCZR1	S	MID-FLOOD	14-Apr-07			25.3	5.83	5.76		84.7	84.2	7.9	29.2	3.2	3.2		6.0	
296	WFCZR1	M	MID-FLOOD	14-Apr-07	16:47	41.20	25.2	5.47	5.44	5.63	85.4	83.8	7.9	29.2	2.9	2.8		5.0	
297	WFCZR1	B	MID-FLOOD	14-Apr-07			25.2	5.58	5.51	5.55	82.6	81.7	7.9	29.2	3.0	2.9	3.0	6.0	5.7
298	WFCZR2	S	MID-FLOOD	14-Apr-07			25.4	5.69	5.62		84.9	85.1	7.9	29.5	3.1	3.2		5.0	
299	WFCZR2	M	MID-FLOOD	14-Apr-07	16:04	41.70	25.3	5.53	5.47	5.58	86.5	86.2	7.9	29.5	3.5	3.6		5.5	
300	WFCZR2	B	MID-FLOOD	14-Apr-07			25.2	5.62	5.65	5.64	84.4	84.3	7.9	29.6	3.8	3.7	3.5	5.5	5.3
301	WWA1	S	MID-EBB	16-Apr-07			24.7	5.80	5.79		78.7	78.4	7.9	30.8	2.4	2.4		7.0	
302	WWA1	M	MID-EBB	16-Apr-07	13:26	6.10	24.8	5.99	5.97	5.89	82.3	82.3	7.9	30.6	3.4	3.4		7.5	
303	WWA1	B	MID-EBB	16-Apr-07			24.9	5.72	5.69	5.71	79.2	79.0	7.9	30.6	3.0	3.1	2.9	12.5	9.0
304	WWA2	S	MID-EBB	16-Apr-07			24.8	5.55	5.54		75.3	75.2	7.9	30.5	2.9	2.8		6.0	
305	WWA2	M	MID-EBB	16-Apr-07	13:12	6.30	24.6	5.64	5.58	5.58	77.5	76.2	7.9	28.2	3.6	3.7		6.5	
306	WWA2	B	MID-EBB	16-Apr-07			24.6	5.79	5.78	5.79	78.4	78.5	7.9	30.7	3.6	3.7	3.4	8.5	7.0
307	WWA3	S	MID-EBB	16-Apr-07			26.9	6.02	6.03		79.2	79.3	7.9	30.0	2.0	2.0		5.0	
308	WWA3	M	MID-EBB	16-Apr-07	13:00	6.00	26.1	5.74	5.75	5.89	81.4	81.1	7.9	30.2	3.7	3.6		7.0	
309	WWA3	B	MID-EBB	16-Apr-07			25.7	5.71	5.68	5.70	80.9	80.8	7.9	30.4	3.4	3.5	3.0	6.0	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, Averaged Value
310	WRA1	S	MID-EBB	16-Apr-07			24.4	6.12	6.11		88.2	88.4	7.9	29.5	3.4	3.6		5.5	
311	WRA1	M	MID-EBB	16-Apr-07	13:41	39.80	24.3	5.77	5.68	5.92	83.5	83.1	7.9	30.7	2.9	2.8		8.0	
312	WRA1	B	MID-EBB	16-Apr-07			24.4	5.62	5.59	5.61	82.4	81.5	7.9	30.7	4.3	4.4	3.6	9.0	7.5
313	WRA2	S	MID-EBB	16-Apr-07			24.8	5.59	5.55		82.0	81.2	7.9	30.0	2.7	2.7		5.5	
314	WRA2	M	MID-EBB	16-Apr-07	13:57	38.50	24.3	6.02	6.04	5.80	84.3	84.5	7.9	30.6	3.3	3.3		6.0	
315	WRA2	B	MID-EBB	16-Apr-07			24.0	5.61	5.59	5.60	81.6	80.7	7.9	30.9	3.3	3.2	3.1	6.5	6.0
316	WRA3	S	MID-EBB	16-Apr-07			24.6	5.48	5.47		80.1	79.4	7.9	30.3	2.0	2.1		6.0	
317	WRA3	M	MID-EBB	16-Apr-07	14:09	37.40	24.0	6.04	6.00	5.75	87.7	87.1	7.9	30.8	2.7	2.7		6.0	
318	WRA3	B	MID-EBB	16-Apr-07			23.9	6.03	6.01	6.02	86.6	86.4	7.9	31.1	3.7	3.7	2.8	8.5	6.8
319	WWFCZ1	S	MID-EBB	16-Apr-07			23.8	6.02	5.99		92.7	92.0	7.9	30.6	1.6	1.8		5.5	
320	WWFCZ1	M	MID-EBB	16-Apr-07	14:49	39.60	23.8	6.14	6.18	6.08	90.9	90.3	7.9	30.8	4.1	4.3		6.5	
321	WWFCZ1	B	MID-EBB	16-Apr-07			23.9	6.01	6.05	6.03	90.0	89.7	7.9	30.6	2.8	2.7	2.9	9.0	7.0
322	WWFCZ2	S	MID-EBB	16-Apr-07			24.8	6.15	6.13		91.3	90.4	7.9	30.0	3.0	3.2		5.0	
323	WWFCZ2	M	MID-EBB	16-Apr-07	14:35	37.20	23.9	6.06	6.03	6.09	87.0	86.7	7.9	30.8	4.0	4.2		6.0	
324	WWFCZ2	B	MID-EBB	16-Apr-07			23.7	6.00	6.01	6.01	91.2	90.8	7.9	31.1	3.0	3.1	3.4	7.5	6.2
325	WFCZR1	S	MID-EBB	16-Apr-07			24.5	5.92	5.90		96.0	96.8	7.9	30.3	3.1	3.2		5.5	
326	WFCZR1	M	MID-EBB	16-Apr-07	15:02	39.20	24.0	5.91	5.86	5.90	88.6	87.6	7.9	30.9	4.2	4.2		8.0	
327	WFCZR1	B	MID-EBB	16-Apr-07			23.6	6.01	6.02	6.02	90.6	90.3	7.9	31.1	4.4	4.5	3.9	7.5	7.0
328	WFCZR2	S	MID-EBB	16-Apr-07			24.4	6.10	6.14		90.8	89.9	7.9	30.1	4.5	4.5		5.5	
329	WFCZR2	M	MID-EBB	16-Apr-07	14:23	40.80	24.1	5.90	5.86	6.00	85.5	85.1	7.9	30.7	4.8	4.8		7.0	
330	WFCZR2	B	MID-EBB	16-Apr-07			23.8	6.26	6.25	6.26	88.3	88.4	7.9	30.1	4.9	4.8	4.7	8.0	6.8
331	WWA1	S	MID-FLOOD	16-Apr-07			24.9	7.00	7.01		117.2	117.1	7.9	28.7	2.5	2.5		10.0	
332	WWA1	M	MID-FLOOD	16-Apr-07	9:25	6.50	25.1	6.88	6.80	6.92	104.0	103.7	7.9	28.7	3.2	3.4		11.5	
333	WWA1	B	MID-FLOOD	16-Apr-07			25.0	6.78	6.73	6.76	103.3	102.8	7.9	28.7	2.9	2.8	2.9	10.5	10.7
334	WWA2	S	MID-FLOOD	16-Apr-07			25.2	6.98	6.99		102.7	100.7	7.9	28.8	2.5	2.6		12.5	
335	WWA2	M	MID-FLOOD	16-Apr-07	9:12	6.90	25.1	6.61	6.60	6.80	98.2	97.2	7.9	29.0	3.1	3.3		15.0	
336	WWA2	B	MID-FLOOD	16-Apr-07			25.2	7.06	7.05	7.06	103.5	103.1	7.9	29.0	3.5	3.6	3.1	14.5	14.0
337	WWA3	S	MID-FLOOD	16-Apr-07			25.8	6.96	6.94		102.7	102.4	7.9	28.9	2.1	2.1		11.5	
338	WWA3	M	MID-FLOOD	16-Apr-07	9:00	6.40	25.5	6.88	6.90	6.92	100.8	99.2	7.9	28.9	3.0	2.9		13.5	
339	WWA3	B	MID-FLOOD	16-Apr-07			25.2	6.88	6.80	6.84	101.4	100.2	7.9	29.1	3.3	3.2	2.7	21.0	15.3
340	WRA1	S	MID-FLOOD	16-Apr-07			24.7	6.98	6.95		111.6	111.2	7.9	28.6	3.7	3.6		10.0	
341	WRA1	M	MID-FLOOD	16-Apr-07	9:38	41.10	24.5	6.74	6.70	6.84	104.7	105.3	7.9	28.8	3.4	3.4		10.0	
342	WRA1	B	MID-FLOOD	16-Apr-07			24.2	5.68	5.65	5.67	85.3	84.8	7.9	30.0	2.9	2.8	3.3	10.0	10.0
343	WRA2	S	MID-FLOOD	16-Apr-07			24.6	6.82	5.76		106.9	105.6	7.9	28.7	2.8	2.6		8.5	
344	WRA2	M	MID-FLOOD	16-Apr-07	9:50	39.60	24.3	6.62	6.57	6.45	104.1	103.9	7.9	28.9	3.2	3.4		11.5	
345	WRA2	B	MID-FLOOD	16-Apr-07			24.1	6.14	6.10	6.12	90.5	89.9	7.9	29.9	4.0	4.3	3.4	12.0	10.7
346	WRA3	S	MID-FLOOD	16-Apr-07			24.5	6.84	6.79		103.0	103.3	7.9	28.5	2.8	2.5		13.5	
347	WRA3	M	MID-FLOOD	16-Apr-07	10:07	38.10	24.3	6.87	6.94	6.86	93.9	94.1	7.9	28.9	3.2	3.1		10.5	
348	WRA3	B	MID-FLOOD	16-Apr-07			24.2	6.52	6.58	6.55	99.4	89.5	7.9	30.1	2.8	3.0	2.9	13.5	12.5
349	WWFCZ1	S	MID-FLOOD	16-Apr-07			24.5	7.46	7.42		106.9	106.8	7.9	28.5	1.8	1.8		13.0	
350	WWFCZ1	M	MID-FLOOD	16-Apr-07	10:46	40.30	24.4	7.03	6.98	7.22	102.6	101.1	7.9	28.5	2.4	2.5		10.0	
351	WWFCZ1	B	MID-FLOOD	16-Apr-07			24.3	7.10	7.13	7.12	99.4	99.2	7.9	29.6	2.5	2.6	2.3	9.0	10.7
352	WWFCZ2	S	MID-FLOOD	16-Apr-07			24.6	7.29	7.28		107.4	107.2	7.9	28.5	2.9	2.6		10.5	
353	WWFCZ2	M	MID-FLOOD	16-Apr-07	10:33	37.80	24.3	7.08	7.04	7.17	100.5	100.6	7.9	29.0	3.2	3.4		10.0	

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	16-Apr-07			24.0	7.05	7.98	7.52	100.3	100.4	7.9	29.8	3.3	3.4	3.1	7.5	9.3
355	WFCZR1	S	MID-FLOOD	16-Apr-07			24.5	7.09	7.02		112.2	110.3	7.9	28.3	4.1	4.1		19.5	
356	WFCZR1	M	MID-FLOOD	16-Apr-07	10:59	40.30	24.4	7.23	7.18	7.13	104.3	104.0	7.9	28.7	3.5	3.5		10.5	
357	WFCZR1	B	MID-FLOOD	16-Apr-07			24.3	7.48	7.46	7.47	105.5	105.3	7.9	28.8	2.9	2.8	3.5	9.5	13.2
358	WFCZR2	S	MID-FLOOD	16-Apr-07			24.8	7.15	7.12		106.9	105.6	7.9	28.4	2.3	2.3		12.5	
359	WFCZR2	M	MID-FLOOD	16-Apr-07	10:20	41.20	24.5	6.84	6.83	6.99	98.4	97.7	7.9	28.6	3.2	3.3		11.5	
360	WFCZR2	B	MID-FLOOD	16-Apr-07			24.1	6.90	6.81	6.86	101.7	101.3	7.9	29.3	2.5	2.4	2.7	10.5	11.5
361	WWA1	S	MID-EBB	18-Apr-07			23.6	5.59	5.56		79.5	79.1	7.9	30.9	3.6	3.6		13.0	
362	WWA1	M	MID-EBB	18-Apr-07	14:27	6.30	23.0	6.04	5.98	5.79	84.1	83.9	7.9	31.0	4.1	4.1		17.5	
363	WWA1	B	MID-EBB	18-Apr-07			23.7	6.03	6.02	6.03	87.2	87.0	7.9	30.9	3.3	3.1	3.6	25.0	16.5
364	WWA2	S	MID-EBB	18-Apr-07			23.6	5.80	5.76		86.0	85.4	7.9	31.0	4.0	3.5		13.5	
365	WWA2	M	MID-EBB	18-Apr-07	14:12	6.80	23.3	6.02	5.96	5.89	87.4	86.7	7.9	31.2	3.6	3.7		17.0	
366	WWA2	B	MID-EBB	18-Apr-07			23.6	6.02	5.95	5.99	88.9	90.2	7.9	30.9	2.1	2.3	3.2	20.0	16.8
367	WWA3	S	MID-EBB	18-Apr-07			24.3	5.53	5.52		81.3	80.6	7.9	30.6	3.5	3.6		8.5	
368	WWA3	M	MID-EBB	18-Apr-07	14:00	6.50	24.1	5.85	5.78	5.67	88.3	86.5	7.9	30.8	2.2	2.4		13.5	
369	WWA3	B	MID-EBB	18-Apr-07			23.8	6.07	6.02	6.05	86.5	86.1	7.9	30.9	4.2	4.2	3.3	17.0	13.0
370	WRA1	S	MID-EBB	18-Apr-07			24.0	5.80	5.76		83.6	83.5	7.9	30.4	3.8	3.7		6.0	
371	WRA1	M	MID-EBB	18-Apr-07	14:40	41.20	23.8	5.65	5.63	5.71	82.2	81.2	7.9	30.6	3.8	3.8		8.5	
372	WRA1	B	MID-EBB	18-Apr-07			23.7	5.99	5.94	5.97	86.4	85.6	7.9	30.4	3.6	3.5	3.7	6.0	6.8
373	WRA2	S	MID-EBB	18-Apr-07			23.8	6.04	6.00		90.8	89.8	7.9	30.2	8.5	8.1		11.0	
374	WRA2	M	MID-EBB	18-Apr-07	14:53	40.30	23.7	6.09	6.04	6.04	91.1	90.5	7.9	30.5	3.4	3.5		7.0	
375	WRA2	B	MID-EBB	18-Apr-07			23.6	5.96	5.98	5.97	87.1	86.3	7.9	30.7	4.2	4.2	5.3	7.5	8.5
376	WRA3	S	MID-EBB	18-Apr-07			23.8	5.94	5.91		92.9	93.7	7.9	30.0	5.8	5.8		8.0	
377	WRA3	M	MID-EBB	18-Apr-07	15:06	38.70	23.7	6.16	6.12	6.03	90.1	89.4	7.9	30.3	4.8	4.8		7.0	
378	WRA3	B	MID-EBB	18-Apr-07			23.7	5.95	5.91	5.93	84.2	83.5	7.9	30.6	4.2	4.2	4.9	9.5	8.2
379	WWFCZ1	S	MID-EBB	18-Apr-07			23.9	6.10	6.08		87.2	86.0	7.9	29.6	4.6	4.5		8.5	
380	WWFCZ1	M	MID-EBB	18-Apr-07	15:46	41.60	23.6	5.87	5.83	5.97	84.8	83.8	7.9	29.8	6.3	6.1		9.5	
381	WWFCZ1	B	MID-EBB	18-Apr-07			23.6	5.79	5.82	5.81	80.1	79.4	7.9	30.1	5.7	5.4	5.4	10.0	9.3
382	WWFCZ2	S	MID-EBB	18-Apr-07			24.1	5.85	5.84		81.9	81.8	7.9	29.6	5.4	5.4		9.0	
383	WWFCZ2	M	MID-EBB	18-Apr-07	15:32	38.70	23.9	5.71	5.70	5.78	81.8	81.3	7.9	29.8	6.3	6.1		10.0	
384	WWFCZ2	B	MID-EBB	18-Apr-07			23.8	5.80	5.75	5.78	90.2	90.0	7.9	29.6	4.4	4.2	5.3	9.0	9.3
385	WFCZR1	S	MID-EBB	18-Apr-07			24.0	5.80	5.79		88.9	88.4	7.9	29.7	4.3	4.1		8.0	
386	WFCZR1	M	MID-EBB	18-Apr-07	15:59	40.50	23.8	5.71	5.67	5.74	86.0	85.6	7.9	29.9	5.1	5.2		5.5	
387	WFCZR1	B	MID-EBB	18-Apr-07			23.8	5.50	5.44	5.47	80.1	79.8	7.9	29.8	4.8	4.9	4.7	9.0	7.5
388	WFCZR2	S	MID-EBB	18-Apr-07			24.1	6.02	5.97		87.3	86.9	7.9	29.7	4.2	4.1		8.5	
389	WFCZR2	M	MID-EBB	18-Apr-07	15:20	41.10	24.3	5.87	5.86	5.93	85.3	84.1	7.9	29.7	5.7	5.5		8.5	
390	WFCZR2	B	MID-EBB	18-Apr-07			24.3	5.88	5.83	5.86	86.9	86.1	7.9	29.8	5.6	5.4	5.1	7.5	8.2
391	WWA1	S	MID-FLOOD	18-Apr-07			23.7	6.10	6.07		90.1	89.7	7.9	30.9	3.2	2.9		5.0	
392	WWA1	M	MID-FLOOD	18-Apr-07	9:27	6.90	23.4	6.14	6.07	6.10	85.9	85.1	7.9	30.9	2.8	2.7		7.0	
393	WWA1	B	MID-FLOOD	18-Apr-07			23.0	6.02	6.01	6.02	85.3	84.9	7.9	30.9	3.3	3.2	3.0	6.0	6.0
394	WWA2	S	MID-FLOOD	18-Apr-07			23.2	6.01	5.98		89.3	88.9	7.9	30.9	2.4	2.6		5.5	
395	WWA2	M	MID-FLOOD	18-Apr-07	9:13	7.50	22.9	6.14	6.16	6.07	83.9	83.3	7.9	31.1	3.3	3.3		7.0	
396	WWA2	B	MID-FLOOD	18-Apr-07			22.7	5.80	5.84	5.82	88.9	88.0	7.9	31.0	2.5	2.6	2.8	6.5	6.3
397	WWA3	S	MID-FLOOD	18-Apr-07			23.4	6.06	6.01		89.8	89.2	7.9	31.6	3.7	3.7		5.5	

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	18-Apr-07	9:00	7.10	22.9	6.06	6.09	6.06	87.6	85.6	7.9	31.3	2.5	2.6		6.0	
399	WWA3	B	MID-FLOOD	18-Apr-07			22.8	6.00	6.02	6.01	87.5	87.3	7.9	31.2	4.2	4.1	3.5	6.0	5.8
400	WRA1	S	MID-FLOOD	18-Apr-07			23.5	6.04	6.03		84.4	85.2	7.9	31.0	2.2	2.4		5.0	
401	WRA1	M	MID-FLOOD	18-Apr-07	9:40	42.50	23.5	6.10	6.07	6.06	86.3	86.2	7.9	31.2	3.1	3.1		7.5	
402	WRA1	B	MID-FLOOD	18-Apr-07			23.2	6.09	6.05	6.07	85.9	85.7	7.9	31.3	3.1	3.3	2.9	7.0	6.5
403	WRA2	S	MID-FLOOD	18-Apr-07			23.5	5.79	5.76		83.9	83.1	7.9	30.9	5.3	5.4		7.5	
404	WRA2	M	MID-FLOOD	18-Apr-07	9:55	41.60	23.3	5.94	5.90	5.85	80.0	79.9	7.9	31.2	3.9	3.4		6.0	
405	WRA2	B	MID-FLOOD	18-Apr-07			23.3	6.08	6.04	6.06	88.1	87.9	7.9	31.5	2.8	2.8	3.9	6.0	7.2
406	WRA3	S	MID-FLOOD	18-Apr-07			24.0	5.98	5.93		87.3	86.5	7.9	30.9	2.4	2.6		5.5	
407	WRA3	M	MID-FLOOD	18-Apr-07	10:12	39.30	23.5	5.91	5.97	5.95	78.7	78.4	7.9	31.0	3.1	3.3		8.0	
408	WRA3	B	MID-FLOOD	18-Apr-07			23.2	5.89	5.88	5.89	85.2	84.5	7.9	31.2	4.0	3.8	3.2	7.0	6.8
409	WWFCZ1	S	MID-FLOOD	18-Apr-07			23.6	5.90	5.91		83.0	83.1	7.9	30.6	2.1	2.1		8.0	
410	WWFCZ1	M	MID-FLOOD	18-Apr-07	10:50	42.10	23.5	6.03	6.01	5.96	89.9	89.7	7.9	30.9	2.5	2.6		10.5	
411	WWFCZ1	B	MID-FLOOD	18-Apr-07			23.5	5.75	5.70	5.73	85.0	84.4	7.9	31.1	3.1	3.2	2.6	10.5	9.7
412	WWFCZ2	S	MID-FLOOD	18-Apr-07			23.8	5.71	5.68		82.2	81.8	7.9	30.5	5.3	5.1		6.0	
413	WWFCZ2	M	MID-FLOOD	18-Apr-07	10:37	39.50	23.7	6.06	6.05	5.88	88.6	87.9	7.9	30.6	4.3	4.2		10.0	
414	WWFCZ2	B	MID-FLOOD	18-Apr-07			23.4	6.09	6.06	6.08	87.9	88.8	7.9	30.9	4.0	3.9	4.4	7.0	7.7
415	WFCZR1	S	MID-FLOOD	18-Apr-07			23.5	6.03	6.02		83.4	84.9	7.9	30.0	3.2	3.1		7.0	
416	WFCZR1	M	MID-FLOOD	18-Apr-07	11:03	41.70	23.4	5.91	5.87	5.96	86.7	86.0	7.9	31.2	2.6	2.6		8.5	
417	WFCZR1	B	MID-FLOOD	18-Apr-07			23.9	6.00	5.94	5.97	87.8	87.3	7.9	31.3	2.4	2.6	2.8	11.5	9.0
418	WFCZR2	S	MID-FLOOD	18-Apr-07			23.4	5.90	5.89		89.2	87.9	7.9	31.1	3.9	3.7		6.5	
419	WFCZR2	M	MID-FLOOD	18-Apr-07	10:25	42.20	23.5	5.72	5.73	5.81	79.0	78.7	7.9	30.9	2.7	2.5		9.0	
420	WFCZR2	B	MID-FLOOD	18-Apr-07			23.8	6.00	5.95	5.98	88.9	88.7	7.9	31.3	2.9	2.6	3.0	11.0	8.8
421	WWA1	S	MID-EBB	20-Apr-07			24.9	5.69	5.81		86.2	84.1	8.0	32.0	4.7	4.7		11.5	
422	WWA1	M	MID-EBB	20-Apr-07	15:18	6.10	24.5	5.74	5.72	5.79	82.4	80.1	8.0	32.0	5.7	5.5		13.5	
423	WWA1	B	MID-EBB	20-Apr-07			24.6	5.50	5.49	5.50	81.6	78.6	8.0	32.2	5.6	5.6	5.3	14.5	13.2
424	WWA2	S	MID-EBB	20-Apr-07			25.0	5.76	5.74		77.6	76.2	8.0	32.0	9.9	9.8		13.5	
425	WWA2	M	MID-EBB	20-Apr-07	15:08	6.40	5.7	5.60	5.58	5.67	75.6	75.1	8.0	32.0	15.4	13.7		19.0	
426	WWA2	B	MID-EBB	20-Apr-07			24.9	5.59	5.55	5.57	74.9	74.1	8.0	32.0	13.9	13.7	12.7	18.0	16.8
427	WWA3	S	MID-EBB	20-Apr-07			25.0	5.78	5.70		75.8	74.2	8.0	32.1	5.9	5.8		7.0	
428	WWA3	M	MID-EBB	20-Apr-07	15:00	6.30	25.1	5.41	5.39	5.57	74.1	73.7	8.0	32.0	8.8	8.7		12.0	
429	WWA3	B	MID-EBB	20-Apr-07			25.4	5.54	5.46	5.50	76.6	74.1	8.0	32.0	10.9	11.2	8.5	11.0	10.0
430	WRA1	S	MID-EBB	20-Apr-07			25.0	5.80	5.72		89.2	87.9	8.0	31.9	3.7	3.5		5.5	
431	WRA1	M	MID-EBB	20-Apr-07	15:30	38.70	24.8	5.76	5.69	5.74	82.1	80.6	8.0	31.8	5.3	5.3		6.5	
432	WRA1	B	MID-EBB	20-Apr-07			24.6	5.05	5.46	5.26	78.0	76.5	8.0	31.8	6.1	6.1	5.0	6.0	6.0
433	WRA2	S	MID-EBB	20-Apr-07			25.0	5.84	5.76		77.1	74.6	8.0	32.0	4.0	3.8		5.0	
434	WRA2	M	MID-EBB	20-Apr-07	15:42	37.40	25.0	5.71	5.61	5.73	76.1	75.8	8.0	32.1	6.5	4.4		10.0	
435	WRA2	B	MID-EBB	20-Apr-07			24.6	5.56	5.52	5.54	76.1	74.9	8.0	32.0	5.9	5.7	5.0	8.5	7.8
436	WRA3	S	MID-EBB	20-Apr-07			24.9	5.70	5.61		79.2	78.1	8.0	32.0	4.1	4.2		5.0	
437	WRA3	M	MID-EBB	20-Apr-07	15:54	37.00	24.7	5.65	5.59	5.64	77.0	76.4	8.0	32.0	7.2	7.2		10.0	
438	WRA3	B	MID-EBB	20-Apr-07			24.7	5.54	5.50	5.52	75.8	74.1	8.0	32.0	7.2	7.4	6.2	11.0	8.7
439	WWFCZ1	S	MID-EBB	20-Apr-07			25.2	5.76	5.74		78.6	78.0	8.0	31.9	5.3	5.2		5.0	
440	WWFCZ1	M	MID-EBB	20-Apr-07	16:33	40.20	25.3	5.80	5.79	5.77	75.3	75.0	8.0	31.8	3.9	3.9		6.5	
441	WWFCZ1	B	MID-EBB	20-Apr-07			25.3	5.50	5.41	5.46	76.4	76.1	8.0	31.9	9.7	8.8	6.1	17.0	9.5

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
442	WWFCZ2	S	MID-EBB	20-Apr-07			25.1	5.62	5.49		79.0	77.4	8.0	32.0	4.9	4.8		5.0	
443	WWFCZ2	M	MID-EBB	20-Apr-07	16:20	38.00	25.0	5.54	5.51	5.54	78.0	76.4	8.0	32.1	5.2	5.2		6.5	
444	WWFCZ2	B	MID-EBB	20-Apr-07			25.0	5.48	5.44	5.46	75.2	74.9	8.0	32.0	4.5	4.6	4.9	6.0	5.8
445	WFCZR1	S	MID-EBB	20-Apr-07			24.9	5.65	5.46		79.0	77.5	8.0	32.0	4.5	4.5		5.0	
446	WFCZR1	M	MID-EBB	20-Apr-07	16:45	39.10	24.7	5.56	5.52	5.55	75.2	74.1	8.0	32.0	5.0	4.8		5.0	
447	WFCZR1	B	MID-EBB	20-Apr-07			24.7	5.49	5.40	5.45	74.0	73.7	8.0	32.0	5.9	5.8	5.1	5.5	5.2
448	WFCZR2	S	MID-EBB	20-Apr-07			24.8	5.84	5.76		77.2	75.8	8.0	32.1	4.6	4.6		12.0	
449	WFCZR2	M	MID-EBB	20-Apr-07	16:08	40.00	24.8	5.60	5.51	5.68	74.2	73.7	8.0	32.1	4.2	4.2		6.5	
450	WFCZR2	B	MID-EBB	20-Apr-07			24.6	5.55	5.47	5.51	76.3	74.9	8.0	32.1	4.0	4.1	4.3	8.5	9.0
451	WWA1	S	MID-FLOOD	20-Apr-07			23.9	6.10	6.05		90.2	88.2	8.0	32.1	4.4	4.5		6.0	
452	WWA1	M	MID-FLOOD	20-Apr-07	9:20	6.70	23.8	5.91	5.89	5.99	87.9	86.0	8.0	32.0	5.6	5.6		6.0	
453	WWA1	B	MID-FLOOD	20-Apr-07			23.8	5.92	5.85	5.89	87.4	86.0	8.0	32.0	5.7	5.7	5.3	5.5	5.8
454	WWA2	S	MID-FLOOD	20-Apr-07			24.1	6.03	5.94		89.6	87.6	8.0	31.9	6.0	6.1		10.5	
455	WWA2	M	MID-FLOOD	20-Apr-07	9:10	7.10	24.0	5.86	5.80	5.91	85.8	84.7	8.0	31.8	6.0	5.9		9.0	
456	WWA2	B	MID-FLOOD	20-Apr-07			24.0	5.72	5.68	5.70	89.0	87.6	8.0	31.8	6.2	6.1	6.0	12.5	10.7
457	WWA3	S	MID-FLOOD	20-Apr-07			24.0	5.88	5.84		91.6	90.0	8.0	32.0	6.0	5.8		12.0	
458	WWA3	M	MID-FLOOD	20-Apr-07	9:00	7.00	24.0	5.76	5.70	5.80	88.2	87.6	8.0	32.0	5.7	5.9		11.0	
459	WWA3	B	MID-FLOOD	20-Apr-07			24.0	5.90	5.85	5.88	87.4	86.0	8.0	32.0	4.3	4.5	5.4	8.0	10.3
460	WRA1	S	MID-FLOOD	20-Apr-07			23.9	5.92	5.76		89.6	87.8	8.0	31.7	3.2	3.5		6.0	
461	WRA1	M	MID-FLOOD	20-Apr-07	9:33	39.60	24.0	5.81	5.78	5.82	87.2	85.6	8.0	32.0	4.7	4.6		5.0	
462	WRA1	B	MID-FLOOD	20-Apr-07			23.6	5.69	5.65	5.67	79.6	78.2	8.0	32.1	5.2	5.2	4.4	6.5	5.8
463	WRA2	S	MID-FLOOD	20-Apr-07			24.1	5.89	5.84		86.0	84.1	8.0	32.0	4.1	4.0		5.5	
464	WRA2	M	MID-FLOOD	20-Apr-07	9:45	38.20	23.8	5.79	5.74	5.82	83.0	81.6	8.0	32.0	4.8	4.9		6.0	
465	WRA2	B	MID-FLOOD	20-Apr-07			23.7	5.50	5.48	5.49	78.0	76.4	8.0	32.1	5.8	5.7	4.9	5.5	5.7
466	WRA3	S	MID-FLOOD	20-Apr-07			24.3	5.87	5.76		84.9	81.6	8.0	32.1	5.0	5.2		6.0	
467	WRA3	M	MID-FLOOD	20-Apr-07	9:57	37.70	24.1	5.60	5.49	5.68	78.2	75.9	8.0	32.0	4.8	4.7		6.5	
468	WRA3	B	MID-FLOOD	20-Apr-07			24.0	5.56	5.47	5.52	79.0	76.4	8.0	31.8	6.1	6.0	5.3	5.5	6.0
469	WWFCZ1	S	MID-FLOOD	20-Apr-07			23.8	5.94	5.86		87.4	86.2	8.0	32.0	5.1	5.0		5.5	
470	WWFCZ1	M	MID-FLOOD	20-Apr-07	10:38	41.00	24.0	5.90	5.76	5.87	84.6	85.2	8.0	31.8	3.9	4.0		8.0	
471	WWFCZ1	B	MID-FLOOD	20-Apr-07			23.6	5.81	5.74	5.78	81.2	76.4	8.0	32.1	4.8	5.0	4.6	10.0	7.8
472	WWFCZ2	S	MID-FLOOD	20-Apr-07			23.7	5.96	5.86		85.7	84.6	8.0	32.0	5.1	4.8		8.0	
473	WWFCZ2	M	MID-FLOOD	20-Apr-07	10:24	39.30	23.6	5.82	5.74	5.85	81.6	80.2	8.0	31.9	5.3	5.0		11.0	
474	WWFCZ2	B	MID-FLOOD	20-Apr-07			23.5	5.71	5.58	5.65	78.1	77.0	8.0	31.8	5.6	5.5	5.2	11.5	10.2
475	WFCZR1	S	MID-FLOOD	20-Apr-07			23.9	5.79	5.68		80.6	77.4	8.0	32.1	4.2	4.3		5.0	
476	WFCZR1	M	MID-FLOOD	20-Apr-07	10:52	40.30	23.4	5.62	5.54	5.66	84.4	82.1	8.0	32.0	5.2	5.1		9.0	
477	WFCZR1	B	MID-FLOOD	20-Apr-07			23.5	5.81	5.64	5.73	76.2	75.6	8.0	31.8	5.8	5.7	5.0	8.5	7.5
478	WFCZR2	S	MID-FLOOD	20-Apr-07			23.8	5.83	5.70		80.2	78.6	8.0	31.9	4.9	4.8		6.0	
479	WFCZR2	M	MID-FLOOD	20-Apr-07	10:10	40.50	23.6	5.52	5.41	5.62	79.4	77.4	8.0	31.9	3.9	4.0		11.5	
480	WFCZR2	B	MID-FLOOD	20-Apr-07			23.6	5.59	5.46	5.53	78.0	76.0	8.0	32.0	5.2	5.1	4.6	17.0	11.5
481	WWA1	S	MID-EBB	23-Apr-07			25.3	5.46	5.42		78.6	77.7	7.9	26.4	2.8	2.8		5.0	
482	WWA1	M	MID-EBB	23-Apr-07	16:25	6.40	25.1	5.40	5.42	5.43	76.0	75.4	7.9	28.0	2.7	2.7		6.0	
483	WWA1	B	MID-EBB	23-Apr-07			25.2	5.55	5.53	5.54	80.2	79.8	7.9	26.6	2.9	2.6	2.7	5.5	5.5
484	WWA2	S	MID-EBB	23-Apr-07			25.3	5.51	5.48		75.3	74.8	7.9	27.2	3.3	3.4		5.5	
485	WWA2	M	MID-EBB	23-Apr-07	16:12	6.70	24.9	5.56	5.50	5.51	75.7	75.5	7.9	27.9	2.6	2.5		6.0	

HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau – Environmental Monitoring & Audit Service
Marine Water Quality Impact Monitoring - April 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
486	WWA2	B	MID-EBB	23-Apr-07			25.1	5.46	5.42	5.44	74.6	74.1	7.9	28.0	4.1	4.1	3.3	10.5	7.3
487	WWA3	S	MID-EBB	23-Apr-07			25.5	5.73	5.70		75.8	74.9	7.9	26.8	3.1	3.1		5.0	
488	WWA3	M	MID-EBB	23-Apr-07	16:00	6.30	25.3	5.41	5.40	5.56	75.4	75.2	7.9	28.0	3.0	2.9		5.0	
489	WWA3	B	MID-EBB	23-Apr-07			25.2	5.50	5.46	5.48	76.2	75.1	7.9	27.9	2.5	2.6	2.9	6.5	5.5
490	WRA1	S	MID-EBB	23-Apr-07			25.3	5.95	5.99		83.5	83.9	7.9	26.2	2.6	2.6		5.0	
491	WRA1	M	MID-EBB	23-Apr-07	16:35	40.70	25.0	5.50	5.44	5.72	75.2	74.9	7.9	28.4	3.0	3.1		5.5	
492	WRA1	B	MID-EBB	23-Apr-07			24.6	5.52	5.41	5.47	76.7	76.2	7.9	30.9	3.2	3.2	2.9	5.0	5.2
493	WRA2	S	MID-EBB	23-Apr-07			25.2	5.46	5.42		74.5	73.9	7.9	26.5	2.9	2.9		5.0	
494	WRA2	M	MID-EBB	23-Apr-07	16:49	39.20	24.9	5.50	5.45	5.46	74.8	74.4	7.9	26.9	2.7	2.8		5.0	
495	WRA2	B	MID-EBB	23-Apr-07			24.8	5.46	5.42	5.44	74.7	73.7	7.9	29.6	3.5	3.5	3.0	5.0	5.0
496	WRA3	S	MID-EBB	23-Apr-07			25.2	5.53	5.51		80.7	80.4	7.9	26.5	3.4	3.5		5.0	
497	WRA3	M	MID-EBB	23-Apr-07	17:02	37.50	24.9	5.40	5.42	5.47	78.0	77.3	7.9	29.0	2.9	2.9		5.0	
498	WRA3	B	MID-EBB	23-Apr-07			24.6	5.46	5.42	5.44	76.0	75.2	7.9	31.2	3.4	3.4	3.2	5.5	5.2
499	WWFCZ1	S	MID-EBB	23-Apr-07			25.3	5.50	5.46		80.1	78.6	7.9	25.0	2.7	2.7		11.0	
500	WWFCZ1	M	MID-EBB	23-Apr-07	17:48	39.70	25.1	5.60	5.51	5.52	78.2	77.6	7.9	27.7	3.4	3.3		7.0	
501	WWFCZ1	B	MID-EBB	23-Apr-07			25.1	5.46	5.42	5.44	75.3	74.6	7.9	27.7	3.2	3.2	3.1	7.0	8.3
502	WWFCZ2	S	MID-EBB	23-Apr-07			25.2	5.84	5.83		83.6	83.0	7.9	25.8	2.9	2.8		6.0	
503	WWFCZ2	M	MID-EBB	23-Apr-07	17:33	37.30	24.7	5.46	5.42	5.64	74.8	75.0	7.9	30.0	2.7	2.7		5.5	
504	WWFCZ2	B	MID-EBB	23-Apr-07			24.5	5.61	5.58	5.60	77.9	77.6	7.9	28.2	3.9	3.8	3.1	9.5	7.0
505	WFCZR1	S	MID-EBB	23-Apr-07			25.3	5.86	5.88		82.9	82.7	7.9	25.8	3.3	3.3		7.0	
506	WFCZR1	M	MID-EBB	23-Apr-07	18:00	40.10	24.8	5.44	5.42	5.65	79.5	79.0	7.9	29.6	3.0	2.8		5.0	
507	WFCZR1	B	MID-EBB	23-Apr-07			24.6	5.50	5.52	5.51	78.6	78.5	7.9	30.1	2.6	2.6	2.9	6.5	6.8
508	WFCZR2	S	MID-EBB	23-Apr-07			25.4	5.53	5.63		79.5	78.8	7.9	25.6	3.7	3.7		9.0	
509	WFCZR2	M	MID-EBB	23-Apr-07	17:20	40.80	25.0	5.60	5.53	5.57	73.5	73.3	7.9	28.3	2.5	2.5		7.0	
510	WFCZR2	B	MID-EBB	23-Apr-07			24.6	5.40	5.39	5.40	77.9	77.0	7.9	31.1	2.3	2.4	2.8	6.0	7.3
511	WWA1	S	MID-FLOOD	23-Apr-07			25.7	5.63	5.56		78.5	78.1	7.9	27.9	3.0	3.1		5.0	
512	WWA1	M	MID-FLOOD	23-Apr-07	10:26	6.80	25.6	5.57	5.51	5.57	77.6	76.5	7.9	28.3	2.9	2.8		6.0	
513	WWA1	B	MID-FLOOD	23-Apr-07			25.5	5.69	5.62	5.66	76.3	75.7	7.9	28.1	3.2	3.2	3.0	8.0	6.3
514	WWA2	S	MID-FLOOD	23-Apr-07			25.6	5.71	5.66		76.4	76.1	7.9	27.5	3.5	3.6		6.5	
515	WWA2	M	MID-FLOOD	23-Apr-07	10:13	7.10	25.5	5.77	5.73	5.72	77.2	76.9	7.9	27.6	2.9	2.8		5.0	
516	WWA2	B	MID-FLOOD	23-Apr-07			25.5	5.81	5.80	5.81	78.5	78.3	7.9	28.1	2.6	3.1	3.1	5.0	5.5
517	WWA3	S	MID-FLOOD	23-Apr-07			25.3	5.82	5.77		79.6	78.7	7.9	27.5	3.2	3.4		6.5	
518	WWA3	M	MID-FLOOD	23-Apr-07	10:00	6.50	25.2	5.76	5.65	5.75	77.2	76.3	7.9	27.3	3.1	3.2		5.0	
519	WWA3	B	MID-FLOOD	23-Apr-07			25.2	5.69	5.63	5.66	75.4	74.7	7.9	28.2	2.9	2.8	3.1	5.5	5.7
520	WRA1	S	MID-FLOOD	23-Apr-07			25.4	5.68	5.63		76.9	76.3	7.9	29.1	2.7	2.9		6.0	
521	WRA1	M	MID-FLOOD	23-Apr-07	10:40	40.90	25.4	5.71	5.66	5.67	77.1	76.5	7.9	29.2	3.1	3.3		7.5	
522	WRA1	B	MID-FLOOD	23-Apr-07			25.3	5.75	5.71	5.73	75.9	75.4	7.9	28.3	3.3	3.4	3.1	10.5	8.0
523	WRA2	S	MID-FLOOD	23-Apr-07			25.5	5.72	5.69		76.1	75.8	7.9	28.5	3.3	3.2		8.0	
524	WRA2	M	MID-FLOOD	23-Apr-07	10:54	40.70	25.5	5.78	5.75	5.74	77.2	76.7	7.9	28.7	2.5	2.6		7.0	
525	WRA2	B	MID-FLOOD	23-Apr-07			25.5	5.68	5.65	5.67	78.3	78.1	7.9	28.7	3.3	3.2	3.0	7.5	7.5
526	WRA3	S	MID-FLOOD	23-Apr-07			25.4	5.49	5.48		76.5	76.1	7.9	29.4	2.9	2.5		8.5	
527	WRA3	M	MID-FLOOD	23-Apr-07	11:07	38.60	25.4	5.57	5.53	5.52	76.8	76.5	7.9	29.2	3.0	2.9		5.5	
528	WRA3	B	MID-FLOOD	23-Apr-07			25.4	5.59	5.52	5.56	77.3	76.9	7.9	29.2	2.7	2.7	2.8	5.5	6.5
529	WWFCZ1	S	MID-FLOOD	23-Apr-07			25.4	5.59	5.53		76.5	75.4	7.9	28.5	3.0	2.7		8.0	

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Marine Water Quality Impact Monitoring - April 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
530	WWFCZ1	M	MID-FLOOD	23-Apr-07	11:45	40.50	25.4	5.61	5.58	5.58	77.2	76.3	7.9	28.5	3.9	3.8		12.5	
531	WWFCZ1	B	MID-FLOOD	23-Apr-07			25.4	5.64	5.62	5.63	76.9	76.8	7.9	28.5	3.2	3.4	3.3	11.5	10.7
532	WWFCZ2	S	MID-FLOOD	23-Apr-07			25.3	5.81	5.79		77.2	76.6	7.9	27.8	3.0	2.8		5.0	
533	WWFCZ2	M	MID-FLOOD	23-Apr-07	11:33	38.40	25.3	5.76	5.72	5.77	76.1	77.5	7.9	27.8	2.9	3.0		5.5	
534	WWFCZ2	B	MID-FLOOD	23-Apr-07			25.2	5.73	5.71	5.72	77.8	77.7	7.9	27.7	2.8	2.9	2.9	5.5	5.3
535	WFCZR1	S	MID-FLOOD	23-Apr-07			25.4	5.86	5.83		78.9	78.3	7.9	27.9	3.5	3.5		8.0	
536	WFCZR1	M	MID-FLOOD	23-Apr-07	11:59	41.20	25.4	5.59	5.58	5.72	76.9	76.2	7.9	27.9	3.2	3.3		8.5	
537	WFCZR1	B	MID-FLOOD	23-Apr-07			25.4	5.63	5.62	5.63	75.4	74.9	7.9	27.8	2.8	2.9	3.2	7.5	8.0
538	WFCZR2	S	MID-FLOOD	23-Apr-07			25.4	5.71	5.68		78.7	78.1	7.9	26.5	3.6	3.7		5.5	
539	WFCZR2	M	MID-FLOOD	23-Apr-07	11:20	41.70	25.3	5.66	5.61	5.67	77.6	77.2	7.9	26.4	2.7	2.6		5.0	
540	WFCZR2	B	MID-FLOOD	23-Apr-07			25.3	5.58	5.57	5.58	76.9	76.2	7.9	26.3	3.1	3.3	3.2	10.0	6.8
541	WWA1	S	MID-EBB	25-Apr-07			24.1	5.52	5.46		78.9	78.6	7.9	29.1	1.9	1.9		9.0	
542	WWA1	M	MID-EBB	25-Apr-07	9:28	6.50	24.0	5.60	5.51	5.52	75.9	75.2	7.9	29.5	2.1	2.1		8.0	
543	WWA1	B	MID-EBB	25-Apr-07			24.0	5.52	5.48	5.50	79.5	79.2	7.9	29.3	2.0	2.0	2.0	7.0	8.0
544	WWA2	S	MID-EBB	25-Apr-07			24.1	5.50	5.46		78.3	77.7	7.9	28.8	2.0	2.2		5.5	
545	WWA2	M	MID-EBB	25-Apr-07	9:13	6.90	24.1	5.54	5.49	5.50	79.7	79.6	7.9	29.7	1.7	1.7		8.5	
546	WWA2	B	MID-EBB	25-Apr-07			24.0	5.52	5.53	5.53	80.7	80.1	7.9	30.0	1.8	1.9	1.9	9.5	7.8
547	WWA3	S	MID-EBB	25-Apr-07			24.1	5.60	5.51		81.2	80.0	7.9	30.0	4.7	4.7		7.0	
548	WWA3	M	MID-EBB	25-Apr-07	9:00	6.50	24.0	5.64	5.61	5.59	75.7	75.2	7.9	30.5	3.1	3.2		7.5	
549	WWA3	B	MID-EBB	25-Apr-07			24.0	5.50	5.42	5.46	76.9	75.8	7.9	30.5	2.8	2.8	3.6	5.5	6.7
550	WRA1	S	MID-EBB	25-Apr-07			24.1	5.67	5.65		79.7	78.5	7.9	30.0	1.6	1.7		11.0	
551	WRA1	M	MID-EBB	25-Apr-07	9:40	40.30	24.0	5.48	5.40	5.55	76.0	75.5	7.9	30.5	2.4	2.4		9.0	
552	WRA1	B	MID-EBB	25-Apr-07			23.8	5.52	5.49	5.51	81.5	81.0	7.9	31.7	3.0	2.9	2.3	7.5	9.2
553	WRA2	S	MID-EBB	25-Apr-07			24.2	5.67	5.65		80.4	80.2	7.9	28.9	3.0	2.9		7.0	
554	WRA2	M	MID-EBB	25-Apr-07	9:57	39.80	24.1	5.56	5.52	5.60	76.9	76.0	7.9	29.8	2.2	2.3		7.5	
555	WRA2	B	MID-EBB	25-Apr-07			23.8	5.42	5.41	5.42	77.8	77.4	7.9	31.2	3.3	3.4	2.8	5.0	6.5
556	WRA3	S	MID-EBB	25-Apr-07			24.1	5.60	5.52		77.0	77.2	7.9	29.9	2.0	2.1		5.5	
557	WRA3	M	MID-EBB	25-Apr-07	10:09	38.70	23.9	5.49	5.42	5.51	76.0	75.4	7.9	30.5	2.5	2.4		5.5	
558	WRA3	B	MID-EBB	25-Apr-07			23.9	5.50	5.45	5.48	78.4	77.2	7.9	30.7	3.3	3.4	2.6	7.5	6.2
559	WWFCZ1	S	MID-EBB	25-Apr-07			24.3	5.69	5.54		80.6	80.4	7.9	28.5	1.9	1.8		5.5	
560	WWFCZ1	M	MID-EBB	25-Apr-07	10:53	39.60	24.1	5.63	5.55	5.60	74.1	73.8	7.9	31.0	2.6	2.6		6.0	
561	WWFCZ1	B	MID-EBB	25-Apr-07			24.0	5.54	5.52	5.53	81.0	80.7	7.9	32.0	3.4	3.7	2.6	5.5	5.7
562	WWFCZ2	S	MID-EBB	25-Apr-07			24.2	5.59	5.53		74.0	74.3	7.9	30.2	3.1	3.6		12.0	
563	WWFCZ2	M	MID-EBB	25-Apr-07	10:38	38.20	23.9	5.55	5.53	5.55	79.8	79.7	7.9	32.0	2.4	2.4		8.0	
564	WWFCZ2	B	MID-EBB	25-Apr-07			23.9	5.60	5.54	5.57	76.7	75.7	7.9	31.6	2.8	2.7	2.8	13.5	11.2
565	WFCZR1	S	MID-EBB	25-Apr-07			24.3	5.49	5.42		75.9	75.8	7.9	31.3	2.2	2.3		8.5	
566	WFCZR1	M	MID-EBB	25-Apr-07	11:05	40.30	23.9	5.69	5.70	5.68	80.8	80.2	7.9	31.7	4.9	4.9		9.5	
567	WFCZR1	B	MID-EBB	25-Apr-07			23.8	5.56	5.51	5.54	77.8	77.2	7.9	32.5	3.8	3.8	3.6	8.0	8.7
568	WFCZR2	S	MID-EBB	25-Apr-07			2.4	5.65	5.61		74.9	74.5	7.9	26.3	2.1	2.1		8.0	
569	WFCZR2	M	MID-EBB	25-Apr-07	10:23	41.70	24.1	5.75	5.80	5.70	80.7	81.0	7.9	30.7	2.1	2.1		6.0	
570	WFCZR2	B	MID-EBB	25-Apr-07			23.9	5.70	5.68	5.69	82.1	82.0	7.9	31.5	2.5	2.5	2.2	6.0	6.7
571	WWA1	S	MID-FLOOD	25-Apr-07			24.1	5.60	5.54		75.5	75.3	7.9	28.3	2.1	2.1		5.0	
572	WWA1	M	MID-FLOOD	25-Apr-07	13:59	6.80	24.1	5.53	5.51	5.55	76.8	75.1	7.9	29.1	2.5	2.4		9.5	
573	WWA1	B	MID-FLOOD	25-Apr-07			24.0	5.52	5.50	5.51	77.3	77.1	7.9	29.6	3.1	3.1	2.5	12.5	9.0

HY/2005/06 Castle Peak Road Improvement - West of Tsing Lung Tau – Environmental Monitoring & Audit Service
Marine Water Quality Impact Monitoring - April 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
574	WWA2	S	MID-FLOOD	25-Apr-07			24.1	5.60	5.49		80.3	78.8	7.9	28.8	3.3	3.4		5.0	
575	WWA2	M	MID-FLOOD	25-Apr-07	13:44	7.30	24.0	5.51	5.47	5.52	80.0	79.4	7.9	29.2	3.0	3.2		5.0	
576	WWA2	B	MID-FLOOD	25-Apr-07			24.0	5.66	5.58	5.62	80.2	80.3	7.9	29.7	3.3	3.2	3.2	8.5	6.2
577	WWA3	S	MID-FLOOD	25-Apr-07			24.1	5.63	5.53		76.8	76.2	7.9	28.1	2.8	3.0		8.0	
578	WWA3	M	MID-FLOOD	25-Apr-07	13:30	6.90	24.0	5.45	5.41	5.51	81.9	80.2	7.9	29.5	2.9	2.8		10.0	
579	WWA3	B	MID-FLOOD	25-Apr-07			23.9	5.47	5.46	5.46	80.6	78.3	7.9	29.5	3.2	3.2	3.0	13.0	10.3
580	WRA1	S	MID-FLOOD	25-Apr-07			24.1	5.61	5.48		75.4	75.2	7.9	29.6	2.0	2.1		10.0	
581	WRA1	M	MID-FLOOD	25-Apr-07	14:08	41.70	24.0	5.61	5.58	5.57	81.1	80.8	7.9	31.9	2.1	2.2		8.5	
582	WRA1	B	MID-FLOOD	25-Apr-07			24.0	5.51	5.42	5.47	76.7	76.2	7.9	31.9	2.6	2.6	2.3	8.5	9.0
583	WRA2	S	MID-FLOOD	25-Apr-07			24.1	5.51	5.48		75.6	75.0	7.9	26.2	2.3	2.3		9.0	
584	WRA2	M	MID-FLOOD	25-Apr-07	14:23	40.50	24.0	5.55	5.57	5.53	79.5	78.7	7.9	30.8	2.5	2.6		6.0	
585	WRA2	B	MID-FLOOD	25-Apr-07			23.8	5.60	5.56	5.58	76.7	75.4	7.9	31.9	2.7	2.6	2.5	6.0	7.0
586	WRA3	S	MID-FLOOD	25-Apr-07			25.9	5.44	5.45		77.3	76.3	7.9	27.7	3.1	3.2		7.0	
587	WRA3	M	MID-FLOOD	25-Apr-07	14:37	39.20	23.9	5.56	5.51	5.49	77.6	76.8	7.9	30.8	2.8	2.8		9.0	
588	WRA3	B	MID-FLOOD	25-Apr-07			23.9	5.60	5.54	5.57	73.8	73.5	7.9	31.9	3.2	3.3	3.1	5.5	7.2
589	WWFCZ1	S	MID-FLOOD	25-Apr-07			24.1	5.50	5.46		75.9	75.1	7.9	27.3	2.0	2.3		7.0	
590	WWFCZ1	M	MID-FLOOD	25-Apr-07	15:22	40.90	24.1	5.56	5.52	5.51	77.8	76.5	7.9	30.4	2.5	2.5		6.5	
591	WWFCZ1	B	MID-FLOOD	25-Apr-07			24.1	5.73	5.72	5.73	81.6	81.3	7.9	31.4	3.1	3.1	2.6	6.5	6.7
592	WWFCZ2	S	MID-FLOOD	25-Apr-07			24.4	5.78	5.71		76.7	75.8	7.9	27.5	3.3	3.4		5.0	
593	WWFCZ2	M	MID-FLOOD	25-Apr-07	15:06	38.50	24.1	5.56	5.52	5.64	76.5	75.8	7.9	30.9	3.3	3.2		8.0	
594	WWFCZ2	B	MID-FLOOD	25-Apr-07			23.9	5.57	5.53	5.55	75.8	75.9	7.9	31.8	2.9	2.6	3.1	6.5	6.5
595	WFCZR1	S	MID-FLOOD	25-Apr-07			24.7	5.72	5.69		77.0	77.1	7.9	28.3	2.6	2.6		5.5	
596	WFCZR1	M	MID-FLOOD	25-Apr-07	15:38	41.10	24.7	5.48	5.50	5.60	78.6	77.7	7.9	30.7	3.0	2.8		6.0	
597	WFCZR1	B	MID-FLOOD	25-Apr-07			24.2	5.61	5.58	5.60	81.0	80.9	7.9	31.6	3.8	3.9	3.1	5.0	5.5
598	WFCZR2	S	MID-FLOOD	25-Apr-07			24.2	5.50	5.44		76.3	75.6	7.9	30.6	2.1	2.2		6.5	
599	WFCZR2	M	MID-FLOOD	25-Apr-07	14:51	42.20	24.0	5.67	5.65	5.57	82.5	81.9	7.9	31.9	2.3	2.4		7.0	
600	WFCZR2	B	MID-FLOOD	25-Apr-07			24.0	5.61	5.52	5.57	80.3	79.5	7.9	31.6	3.2	3.3	2.6	10.0	7.8
601	WWA1	S	MID-EBB	27-Apr-07			24.7	5.76	5.75		79.3	79.1	8.0	31.1	3.0	2.9		10.0	
602	WWA1	M	MID-EBB	27-Apr-07	10:59	6.80	24.6	5.80	5.76	5.77	78.2	77.0	8.0	31.2	2.9	2.7		8.0	
603	WWA1	B	MID-EBB	27-Apr-07			24.6	5.61	5.60	5.61	81.3	81.1	8.0	31.4	2.9	2.9	2.9	6.0	8.0
604	WWA2	S	MID-EBB	27-Apr-07			25.7	5.54	5.49		78.4	77.3	8.0	31.0	2.9	2.9		7.5	
605	WWA2	M	MID-EBB	27-Apr-07	10:42	7.10	24.8	5.69	5.61	5.58	84.8	83.3	8.0	31.2	2.5	2.6		11.5	
606	WWA2	B	MID-EBB	27-Apr-07			25.1	5.58	5.51	5.55	75.1	74.8	8.0	31.3	3.2	3.2	2.9	9.0	9.3
607	WWA3	S	MID-EBB	27-Apr-07			26.6	5.78	5.79		80.5	80.2	8.0	30.1	3.0	3.1		7.5	
608	WWA3	M	MID-EBB	27-Apr-07	10:30	6.90	25.7	5.87	5.86	5.83	82.1	82.0	8.0	30.7	4.0	3.8		8.5	
609	WWA3	B	MID-EBB	27-Apr-07			25.5	6.01	6.04	6.03	86.5	84.1	8.0	30.9	3.3	3.4	3.4	5.5	7.2
610	WRA1	S	MID-EBB	27-Apr-07			24.4	5.77	5.74		79.1	78.9	8.0	31.3	2.3	2.4		6.5	
611	WRA1	M	MID-EBB	27-Apr-07	11:08	40.70	24.3	5.80	5.72	5.76	77.8	76.9	8.0	31.5	3.4	3.6		8.0	
612	WRA1	B	MID-EBB	27-Apr-07			24.3	5.63	5.65	5.64	80.6	80.4	8.0	31.7	2.8	2.9	2.9	11.5	8.7
613	WRA2	S	MID-EBB	27-Apr-07			24.4	5.56	5.54		77.4	77.0	8.0	31.3	3.1	3.1		5.5	
614	WRA2	M	MID-EBB	27-Apr-07	11:23	39.50	24.0	5.70	5.67	5.62	79.9	78.5	8.0	31.6	2.7	2.7		6.5	
615	WRA2	B	MID-EBB	27-Apr-07			24.2	5.79	5.68	5.74	78.2	78.3	8.0	31.4	2.4	2.5	2.8	9.0	7.0
616	WRA3	S	MID-EBB	27-Apr-07			24.4	5.81	5.82		77.9	75.2	8.0	31.2	2.6	2.7		7.5	
617	WRA3	M	MID-EBB	27-Apr-07	11:37	39.20	24.3	5.86	5.80	5.82	80.8	79.0	8.0	31.5	2.9	2.9		9.5	

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
618	WRA3	B	MID-EBB	27-Apr-07			24.1	5.68	5.62	5.65	81.7	81.1	8.0	31.8	3.0	3.1	2.9	15.0	10.7
619	WWFCZ1	S	MID-EBB	27-Apr-07			24.3	5.79	5.71		78.3	77.6	8.0	31.3	2.8	2.7		6.0	
620	WWFCZ1	M	MID-EBB	27-Apr-07	12:19	39.30	24.2	5.45	5.46	5.60	78.4	78.3	8.0	31.5	2.6	2.6		12.5	
621	WWFCZ1	B	MID-EBB	27-Apr-07			24.1	5.71	5.76	5.74	80.2	80.1	8.0	31.5	3.0	3.1	2.8	9.0	9.2
622	WWFCZ2	S	MID-EBB	27-Apr-07			24.2	5.97	5.87		79.6	79.0	8.0	31.5	2.0	1.8		6.5	
623	WWFCZ2	M	MID-EBB	27-Apr-07	12:03	37.90	24.2	5.55	5.54	5.73	78.9	79.6	8.0	31.6	2.3	2.4		5.0	
624	WWFCZ2	B	MID-EBB	27-Apr-07			24.1	5.68	5.50	5.59	76.5	75.5	8.0	31.3	2.6	2.8	2.4	5.5	5.7
625	WFCZR1	S	MID-EBB	27-Apr-07			24.3	5.43	5.39		75.5	74.9	8.0	31.6	2.8	2.6		12.0	
626	WFCZR1	M	MID-EBB	27-Apr-07	12:34	39.60	24.2	5.61	5.57	5.50	77.6	77.0	8.0	31.5	2.4	2.4		6.0	
627	WFCZR1	B	MID-EBB	27-Apr-07			24.2	5.60	5.56	5.58	77.2	76.8	8.0	31.6	2.9	2.8	2.6	5.0	7.7
628	WFCZR2	S	MID-EBB	27-Apr-07			24.5	5.61	5.64		77.5	76.9	8.0	31.2	3.0	2.9		7.5	
629	WFCZR2	M	MID-EBB	27-Apr-07	11:50	40.80	24.2	5.60	5.51	5.59	79.7	79.8	8.0	31.4	2.8	2.8		8.0	
630	WFCZR2	B	MID-EBB	27-Apr-07			24.1	5.76	5.70	5.73	77.7	77.6	8.0	31.6	2.2	2.3	2.7	7.0	7.5
631	WWA1	S	MID-FLOOD	27-Apr-07			25.3	5.69	5.68		78.2	78.1	8.0	30.7	2.8	2.8		10.0	
632	WWA1	M	MID-FLOOD	27-Apr-07	16:27	7.10	25.2	5.80	5.74	5.73	77.6	77.7	8.0	30.6	3.1	3.2		6.5	
633	WWA1	B	MID-FLOOD	27-Apr-07			25.1	5.50	5.44	5.47	80.1	78.6	8.0	30.6	2.9	2.7	2.9	8.5	8.3
634	WWA2	S	MID-FLOOD	27-Apr-07			25.1	5.76	5.70		78.8	78.0	8.0	30.7	3.2	3.4		5.0	
635	WWA2	M	MID-FLOOD	27-Apr-07	16:11	7.30	24.5	5.60	5.49	5.64	77.5	77.0	8.0	30.1	3.5	3.6		5.0	
636	WWA2	B	MID-FLOOD	27-Apr-07			24.8	5.44	5.42	5.43	79.9	79.6	8.0	30.9	3.2	3.4	3.4	8.0	6.0
637	WWA3	S	MID-FLOOD	27-Apr-07			24.9	5.48	5.40		80.6	80.5	8.0	30.6	3.0	2.6		5.0	
638	WWA3	M	MID-FLOOD	27-Apr-07	16:00	7.20	25.0	5.51	5.47	5.47	80.7	80.6	8.0	30.7	2.9	2.9		6.0	
639	WWA3	B	MID-FLOOD	27-Apr-07			25.0	5.49	5.45	5.47	80.1	79.0	8.0	30.9	2.7	2.6	2.8	9.5	6.8
640	WRA1	S	MID-FLOOD	27-Apr-07			24.7	5.62	5.54		78.6	78.0	8.0	30.6	2.4	2.5		8.0	
641	WRA1	M	MID-FLOOD	27-Apr-07	16:40	41.10	24.7	5.66	5.60	5.61	76.5	76.6	8.0	30.9	3.2	3.4		9.5	
642	WRA1	B	MID-FLOOD	27-Apr-07			24.3	5.51	5.48	5.50	79.5	79.9	8.0	30.5	3.3	3.4	3.0	11.5	9.7
643	WRA2	S	MID-FLOOD	27-Apr-07			24.7	5.60	5.55		75.4	75.1	8.0	30.7	3.5	3.6		16.0	
644	WRA2	M	MID-FLOOD	27-Apr-07	16:53	40.20	24.3	5.70	5.65	5.63	76.9	76.9	8.0	31.2	3.3	3.3		12.5	
645	WRA2	B	MID-FLOOD	27-Apr-07			24.1	5.74	5.72	5.73	75.8	75.3	8.0	31.5	2.8	2.8	3.2	21.0	16.5
646	WRA3	S	MID-FLOOD	27-Apr-07			24.8	5.69	5.62		77.7	77.0	8.0	30.7	2.6	2.6		12.0	
647	WRA3	M	MID-FLOOD	27-Apr-07	17:04	39.80	24.4	5.71	5.99	5.75	76.4	76.0	8.0	31.1	2.4	2.4		14.0	
648	WRA3	B	MID-FLOOD	27-Apr-07			24.3	5.55	5.57	5.56	78.6	78.5	8.0	31.4	3.3	3.4	2.8	6.5	10.8
649	WWFCZ1	S	MID-FLOOD	27-Apr-07			24.9	5.49	5.40		78.7	78.0	8.0	30.7	3.0	2.9		13.5	
650	WWFCZ1	M	MID-FLOOD	27-Apr-07	17:46	39.70	24.7	5.50	5.45	5.46	76.9	76.0	8.0	31.0	3.2	3.2		14.5	
651	WWFCZ1	B	MID-FLOOD	27-Apr-07			24.4	5.53	5.51	5.52	81.0	80.5	8.0	31.1	3.3	3.3	3.1	10.0	12.7
652	WWFCZ2	S	MID-FLOOD	27-Apr-07			24.9	5.56	5.51		78.7	77.9	8.0	30.7	2.1	2.1		20.0	
653	WWFCZ2	M	MID-FLOOD	27-Apr-07	17:32	38.50	24.7	5.57	5.61	5.56	77.8	77.4	8.0	30.9	2.9	2.6		13.5	
654	WWFCZ2	B	MID-FLOOD	27-Apr-07			24.4	5.46	5.42	5.44	80.0	79.6	8.0	31.3	3.2	3.4	2.7	9.5	14.3
655	WFCZR1	S	MID-FLOOD	27-Apr-07			24.9	5.70	5.62		76.6	76.8	8.0	30.7	3.5	3.6		7.0	
656	WFCZR1	M	MID-FLOOD	27-Apr-07	17:59	40.70	24.4	5.80	5.71	5.71	77.1	76.2	8.0	31.0	3.3	3.1		12.5	
657	WFCZR1	B	MID-FLOOD	27-Apr-07			24.4	5.44	5.40	5.42	80.0	79.4	8.0	31.3	2.1	2.1	2.9	7.5	9.0
658	WFCZR2	S	MID-FLOOD	27-Apr-07			25.1	5.59	5.54		81.3	80.9	8.0	26.2	3.2	3.3		12.0	
659	WFCZR2	M	MID-FLOOD	27-Apr-07	17:20	41.20	24.8	5.52	5.49	5.54	82.1	80.9	8.0	30.8	3.2	3.2		8.0	
660	WFCZR2	B	MID-FLOOD	27-Apr-07			24.4	5.71	5.63	5.67	76.9	76.2	8.0	31.3	4.1	4.1	3.5	7.5	9.2
661	WWA1	S	MID-EBB	30-Apr-07			24.7	5.50	5.41		74.6	74.5	8.0	30.9	3.7	3.6		10.0	

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
662	WWA1	M	MID-EBB	30-Apr-07	13:50	6.30	24.7	5.49	5.48	5.47	75.6	75.0	8.0	31.1	4.2	4.3		8.5	
663	WWA1	B	MID-EBB	30-Apr-07			24.6	5.60	5.52	5.56	74.8	74.5	8.0	31.0	5.0	5.1	4.3	10.0	9.5
664	WWA2	S	MID-EBB	30-Apr-07			25.0	5.43	5.42		76.7	76.0	8.0	30.7	3.7	3.7		11.5	
665	WWA2	M	MID-EBB	30-Apr-07	13:40	6.40	24.9	5.46	5.51	5.46	74.1	74.5	8.0	30.8	4.7	4.6		9.5	
666	WWA2	B	MID-EBB	30-Apr-07			24.8	5.46	5.42	5.44	77.5	77.4	8.0	30.6	4.6	4.6	4.4	17.5	12.8
667	WWA3	S	MID-EBB	30-Apr-07			25.8	5.62	5.48		75.8	74.6	8.0	26.5	4.6	4.6		7.0	
668	WWA3	M	MID-EBB	30-Apr-07	13:30	6.60	25.4	5.40	5.40	5.48	74.0	73.6	8.0	30.4	3.0	3.1		12.5	
669	WWA3	B	MID-EBB	30-Apr-07			25.1	5.40	5.42	5.41	75.1	74.8	8.0	30.9	4.2	4.2	3.9	8.5	9.3
670	WRA1	S	MID-EBB	30-Apr-07			24.8	5.50	5.42		77.7	78.0	8.0	30.3	3.4	3.3		8.0	
671	WRA1	M	MID-EBB	30-Apr-07	14:05	36.70	24.6	5.46	5.43	5.45	78.2	78.0	8.0	31.1	3.2	3.2		10.5	
672	WRA1	B	MID-EBB	30-Apr-07			24.5	5.48	5.44	5.46	79.5	78.5	8.0	31.4	4.0	4.0	3.5	8.0	8.8
673	WRA2	S	MID-EBB	30-Apr-07			24.7	5.70	5.58		79.0	77.2	8.0	30.6	3.2	3.1		7.5	
674	WRA2	M	MID-EBB	30-Apr-07	14:18	36.00	24.6	5.60	5.52	5.60	77.6	76.9	8.0	31.2	4.2	4.1		9.5	
675	WRA2	B	MID-EBB	30-Apr-07			24.5	5.77	5.72	5.75	77.1	76.8	8.0	31.3	3.7	3.6	3.6	8.0	8.3
676	WRA3	S	MID-EBB	30-Apr-07			24.7	5.58	5.50		77.6	77.0	8.0	30.7	3.2	3.2		5.5	
677	WRA3	M	MID-EBB	30-Apr-07	14:31	36.30	24.6	5.43	5.44	5.49	77.6	77.3	8.0	31.3	3.1	3.2		9.0	
678	WRA3	B	MID-EBB	30-Apr-07			24.5	5.56	5.55	5.56	80.9	80.5	8.0	31.5	3.4	3.4	3.2	9.5	8.0
679	WWFCZ1	S	MID-EBB	30-Apr-07			24.7	5.71	5.59		78.2	77.0	8.0	30.5	4.1	4.1		7.0	
680	WWFCZ1	M	MID-EBB	30-Apr-07	15:10	38.30	24.6	5.38	5.35	5.51	75.9	78.1	8.0	31.0	4.0	4.1		5.0	
681	WWFCZ1	B	MID-EBB	30-Apr-07			24.5	5.63	5.60	5.62	84.0	83.1	8.0	31.2	4.4	4.3	4.2	5.0	5.7
682	WWFCZ2	S	MID-EBB	30-Apr-07			24.7	5.51	5.46		77.4	76.8	8.0	29.9	4.5	4.4		13.0	
683	WWFCZ2	M	MID-EBB	30-Apr-07	14:57	37.60	24.6	5.42	5.43	5.46	78.1	77.7	8.0	30.7	4.1	4.2		5.0	
684	WWFCZ2	B	MID-EBB	30-Apr-07			24.6	5.60	5.53	5.57	74.0	74.4	8.0	31.2	3.1	3.1	3.9	6.0	8.0
685	WFCZR1	S	MID-EBB	30-Apr-07			24.8	5.54	5.50		75.5	75.0	8.0	30.7	3.2	3.2		5.5	
686	WFCZR1	M	MID-EBB	30-Apr-07	15:23	38.50	24.6	5.48	5.41	5.48	76.8	76.0	8.0	31.1	3.2	3.3		10.5	
687	WFCZR1	B	MID-EBB	30-Apr-07			24.6	5.54	5.55	5.55	77.7	78.1	8.0	31.2	3.6	3.5	3.3	11.0	9.0
688	WFCZR2	S	MID-EBB	30-Apr-07			24.6	5.63	5.60		77.3	76.3	8.0	30.4	3.2	3.2		12.0	
689	WFCZR2	M	MID-EBB	30-Apr-07	14:45	39.40	24.7	5.73	5.72	5.67	81.6	81.7	8.0	30.5	3.7	3.6		7.0	
690	WFCZR2	B	MID-EBB	30-Apr-07			24.5	5.50	5.42	5.46	78.6	77.2	8.0	31.2	4.0	4.1	3.6	8.0	9.0
691	WWA1	S	MID-FLOOD	30-Apr-07			25.3	5.89	5.86		85.0	84.9	8.0	28.1	4.0	3.9		16.0	
692	WWA1	M	MID-FLOOD	30-Apr-07	10:19	6.80	25.2	5.51	5.44	5.68	80.8	80.5	8.0	28.3	4.3	4.3		12.5	
693	WWA1	B	MID-FLOOD	30-Apr-07			25.2	5.50	5.48	5.49	77.6	76.9	8.0	28.3	5.3	5.3	4.5	20.5	16.3
694	WWA2	S	MID-FLOOD	30-Apr-07			25.4	5.69	5.67		79.6	79.7	8.0	28.6	3.7	3.6		8.0	
695	WWA2	M	MID-FLOOD	30-Apr-07	10:10	6.90	25.3	5.44	5.40	5.55	79.3	78.9	8.0	28.7	4.9	4.8		11.0	
696	WWA2	B	MID-FLOOD	30-Apr-07			25.2	5.74	5.70	5.72	84.2	83.6	8.0	28.6	5.0	4.9	4.5	10.5	9.8
697	WWA3	S	MID-FLOOD	30-Apr-07			25.9	5.42	5.40		78.1	77.1	8.0	23.5	4.6	4.5		9.0	
698	WWA3	M	MID-FLOOD	30-Apr-07	10:00	7.20	25.6	5.60	5.55	5.49	77.5	80.4	8.0	28.6	3.2	3.3		20.5	
699	WWA3	B	MID-FLOOD	30-Apr-07			25.4	5.50	5.45	5.48	74.4	74.0	8.0	28.7	4.4	4.4	4.0	11.5	13.7
700	WRA1	S	MID-FLOOD	30-Apr-07			25.4	5.48	5.40		78.2	77.9	8.0	27.6	3.2	3.4		6.0	
701	WRA1	M	MID-FLOOD	30-Apr-07	10:32	37.10	25.0	5.57	5.59	5.51	80.1	80.3	8.0	29.1	3.6	3.6		7.5	
702	WRA1	B	MID-FLOOD	30-Apr-07			24.8	5.56	5.57	5.57	78.3	78.2	8.0	28.7	4.7	4.7	3.9	6.5	6.7
703	WRA2	S	MID-FLOOD	30-Apr-07			25.3	5.50	5.49		76.9	76.7	8.0	27.2	3.4	3.4		9.5	
704	WRA2	M	MID-FLOOD	30-Apr-07	10:41	36.80	25.1	5.62	5.58	5.55	75.6	75.4	8.0	28.4	3.4	3.5		11.5	
705	WRA2	B	MID-FLOOD	30-Apr-07			24.9	5.44	5.45	5.45	76.7	76.6	8.0	29.3	4.1	4.2	3.7	12.5	11.2

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	30-Apr-07			25.2	5.39	5.38		77.6	77.4	8.0	27.6	3.1	3.2		5.0	
707	WRA3	M	MID-FLOOD	30-Apr-07	10:54	37.00	25.2	5.49	5.39	5.41	74.4	74.3	8.0	27.1	3.6	3.5		6.5	
708	WRA3	B	MID-FLOOD	30-Apr-07			25.0	5.43	5.40	5.42	75.8	75.1	8.0	29.1	3.9	3.9	3.5	5.0	5.5
709	WWFCZ1	S	MID-FLOOD	30-Apr-07			25.2	5.67	5.64		78.2	78.0	8.0	27.4	4.3	4.4		5.5	
710	WWFCZ1	M	MID-FLOOD	30-Apr-07	11:38	38.70	25.1	5.68	5.57	5.64	76.1	76.0	8.0	27.5	4.0	4.0		6.0	
711	WWFCZ1	B	MID-FLOOD	30-Apr-07			25.1	5.40	5.41	5.41	80.1	79.2	8.0	27.6	4.0	4.1	4.1	6.5	6.0
712	WWFCZ2	S	MID-FLOOD	30-Apr-07			25.2	5.88	5.80		81.2	81.3	8.0	27.4	4.1	4.1		6.0	
713	WWFCZ2	M	MID-FLOOD	30-Apr-07	11:19	38.10	24.8	5.71	5.70	5.77	76.3	76.0	8.0	30.0	3.9	3.9		6.0	
714	WWFCZ2	B	MID-FLOOD	30-Apr-07			24.9	5.45	5.42	5.44	74.9	75.3	8.0	28.1	3.8	3.8	3.9	9.0	7.0
715	WFCZR1	S	MID-FLOOD	30-Apr-07			25.2	5.63	5.59		82.4	81.7	8.0	27.4	3.3	3.4		6.5	
716	WFCZR1	M	MID-FLOOD	30-Apr-07	11:42	39.90	25.1	5.48	5.51	5.55	77.5	76.8	8.0	27.8	4.5	4.5		5.0	
717	WFCZR1	B	MID-FLOOD	30-Apr-07			25.0	5.47	5.41	5.44	81.4	81.0	8.0	28.4	3.4	3.5	3.8	5.5	5.7
718	WFCZR2	S	MID-FLOOD	30-Apr-07			25.3	5.56	5.55		77.2	76.1	8.0	27.4	3.1	3.1		5.5	
719	WFCZR2	M	MID-FLOOD	30-Apr-07	11:06	40.60	25.1	5.56	5.55	5.56	79.1	78.6	8.0	28.4	4.0	4.1		5.0	
720	WFCZR2	B	MID-FLOOD	30-Apr-07			24.8	5.60	5.57	5.59	72.6	72.3	8.0	30.0	4.5	4.1	3.8	8.0	6.2

Appendix E

Records on disposal of C&D material by barge

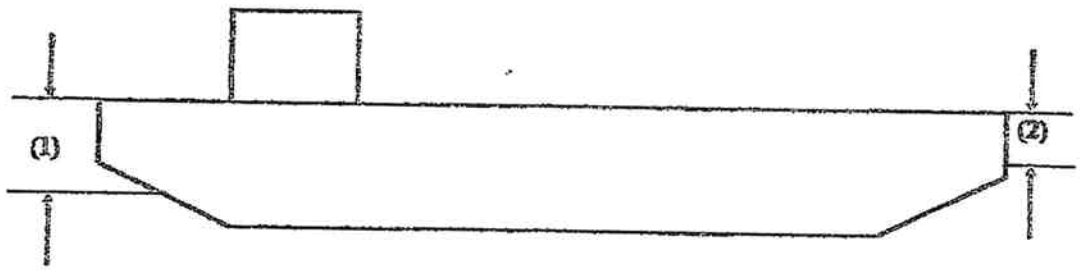
Shun Tat Construction Engineering Limited
信達建設工程有限公司

Date日期: 2.4.07

Delivery Note No.: TLT/07/04

BARGE DELIVERY RECORD
駁船載貨記錄

Source 來源:	青衣三角
Type of materials 物料類別:	泥石
Barge name 駁船名稱:	信達22
Barge registration no. 駁船登記號碼:	B21676V
Arrival time 到達時間:	2.4.07,
Unloading time 開始放料時間:	2.4.07 10[00] AM
Departure time 離開時間:	2.4.07 1900 PM
Deck level before loading 吉載 (1):	船頭 綠 3.2 m 紅 3.6 m 船尾 綠 3.7 m 紅 4.1 m
Deck level after loading 滿載 (2):	船頭 綠 1.3 m 紅 1.1 m 船尾 綠 1.1 m 紅 0.7 m
Estimated quantity (Base on Barge Information) 物料噸數:	2213.150噸
Destination (of Materials) 目的地:	Tsing Lung Tau 青龍頭



Agreed By
Shun Tat Construction Eng. Ltd.

Agreed By
Chun Wo Construction & Eng. Co. Ltd.

Shun Tat Construction Engineering Limited
信達建設工程有限公司

Date日期: 10-4-07

Delivery Note No.: TLT/07/05

BARGE DELIVERY RECORD
駁船載貨記錄

Source 來源:	Tsing Lung Tau
Type of materials 物料類別:	Rock and Soil Material
Barge name 駁船名稱:	ST22
Barge registration no. 駁船登記號碼:	B21696V
Arrival time 到達時間:	10.4.07 0830
Unloading time 開始放料時間:	10.4.07 0930
Departure time 離開時間:	11.4.07 1530
Deck level before loading 吉載 (1):	船頭 綠 3.5 m 紅 3.5 m 船尾 綠 4.0 m 紅 4.0 m
Deck level after loading 落載 (2):	船頭 綠 0.9 m 紅 0.9 m 船尾 綠 0.7 m 紅 0.7 m
Estimated quantity (Base on Barge Information) 物料噸數:	2305.243 吨
Destination (of Materials) 目的地:	Tuen Mun 38

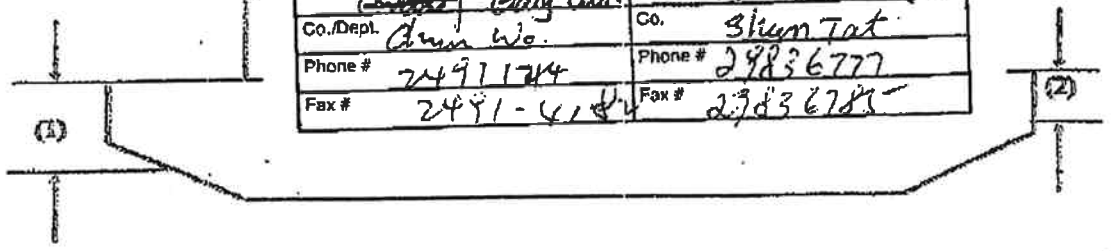
Post-it® Fax Note 7671 | Date 4/5/07 | # of pages ▶ 5

To Gary Lam | From W. M. Kwok

Co./Dept. Chun Wo | Co. Shun Tat

Phone # 2491 1744 | Phone # 29836777

Fax # 2491-4184 | Fax # 29836785



Agreed By _____
Shun Tat Construction Eng. Ltd.

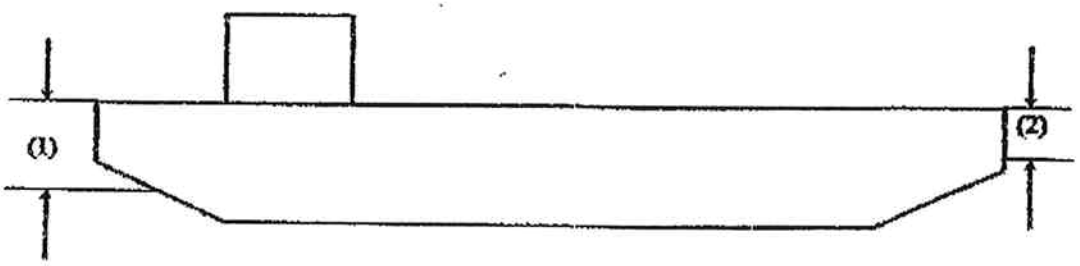
Agreed By K-L Kwok
Chun Wo Construction & Eng. Co. Ltd.

Shun Tat Construction Engineering Limited
信達建設工程有限公司

Date日期: 12.4.07	Delivery Note No.:

BARGE DELIVERY RECORD
駁船載運記錄

Source 來源:	青 [illegible] 皇 [illegible]
Type of materials 物料類別:	碎、石
Barge name 駁船名稱:	ST22
Barge registration no. 駁船登記號碼:	B21696V
Arrival time 到達時間:	12.4.07 1900
Unloading time 開始放料時間:	12.4.07
Departure time 離開時間:	
Deck level before loading 吉載 (1):	船頭 綠 3.5 m 紅 3.4 m 船尾 綠 3.9 m 紅 3.7 m
Deck level after loading 滿載 (2):	船頭 綠 1.0 m 紅 0.6 m 船尾 綠 1.4 m 紅 1.0 m
Estimated quantity (Base on Barge Information) 物料噸數:	2233.219 吨
Destination (of Materials) 目的地:	往: 屯門 31區



Agreed By [signature]
Shun Tat Construction Eng. Ltd.

CHUN WO CONST. & ENG. CO. LTD. HY/2005/06

Agreed By [signature]
Chun Wo Construction & Eng. Co. Ltd.

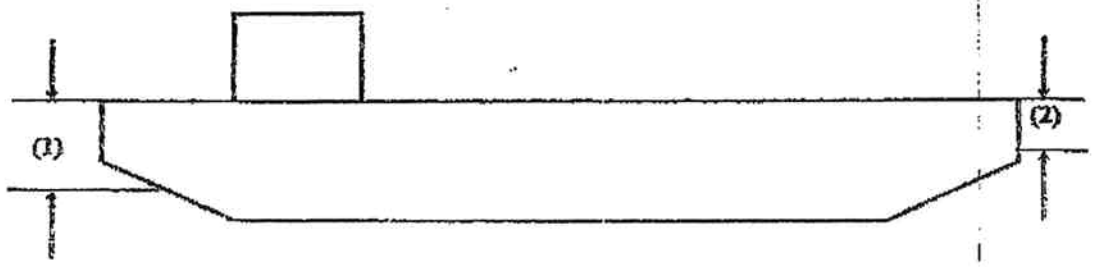
Shun Tat Construction Engineering Limited
信達建設工程有限公司

Date日期: 16.4.07

Delivery Note No.:

BARGE DELIVERY RECORD
運船載貨記錄

Source 來源:	Tsing Lung Tau
Type of materials 物料類別:	碎石
Barge name 運船名稱:	S122
Barge registration no. 運船登記號碼:	B2:696Y
Arrival time 到達時間:	16.4.07 0800
Unloading time 開始放料時間:	16.4.07 0900
Departure time 離開時間:	
Deck level before loading 吉載 (1):	船頭 綠 4.0 m 紅 4.0 m 船尾 綠 3.5 m 紅 3.5 m
Deck level after loading 滿載 (2):	船頭 綠 1.10 m 紅 1.0 m 船尾 綠 0.8 m 紅 0.7 m
Estimated quantity (Base on Barge Information) 物料噸數:	2380.247 吨
Destination (of Materials) 目的地:	屯門 38區



Agreed By _____
Shun Tat Construction Eng. Ltd.

Agreed By _____
Chun Wo Construction & Eng. Co. Ltd.

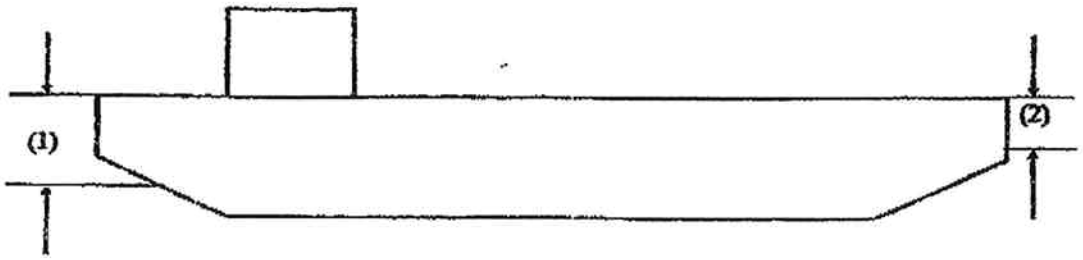
CHUN WO CONST. & ENG. CO. LTD. HY/2005/06

Shun Tat Construction Engineering Limited
信達建設工程有限公司

Date日期: 19.4.07 Delivery Note No.:

BARGE DELIVERY RECORD
聲船載貨記錄

Source 來源:	Tsing Lung Tau
Type of materials 物料類別:	碎石
Barge name 聲船名稱:	ST22
Barge registration no. 聲船登記號碼:	B21696V
Arrival time 到達時間:	18.4.07 1130
Unloading time 開始放料時間:	19.4.07 1400
Departure time 離開時間:	19.4.07
Deck level before loading 吉載 (1):	船頭 綠 3.9 m 紅 3.9 m 船尾 綠 3.5 m 紅 3.5 m
Deck level after loading 滿載 (2):	船頭 綠 1.0 m 紅 1.1 m 船尾 綠 0.7 m 紅 0.75 m
Estimated quantity (Base on Barge Information) 物料噸數:	2350.151 公噸
Destination (of Materials) 目的地:	屯門 38區



Agreed By
Shun Tat Construction Eng. Ltd.

Agreed By
Chun Wo Construction & Eng. Co. Ltd.

Appendix F

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				
2-Apr-07	Mid-flood	WWA3	-	-	-	-	-	-	-	6.6	8.7	17.3	The original silt curtain was not effective to prevent the dispersion of SS from the stockpile at Seawall B. Removal of stockpile was observed during marine water quality monitoring in early April 2007. On the other hand, seepage of muddy water was observed along Slope 82 on 04 April 2007, where fill materials was temporarily stockpiled along the shore. The Contractor installed a new silt curtain on 14 April 2007 and provided geotextile over boulders along the shore of Slope 82 in mid-April. The marine water quality was improved in subsequent marine water monitoring on 14 and 16 April 2007. However, the bottom of the new silt curtain was observed broken on 18 April 2007. Seepage of muddy water was observed from the silt curtain on 18 and 20 April 2007. The Contractor suspended all excavation works at Seawall B immediately. Inspection and repairing of silt curtain were conducted, which were completed on 28 April 2007.	The Contractor has repaired the silt curtain on 28 April 2007 and covered the stockpile on the seaside at Seawall B. The fill materials along the shore of Slope 82 were also removed in late April 2007. The Contactor suspended the excavation works and removal of stockpile at Seawall B from 21 to 30 April 2007. The Contractor also conducted daily inspection of the silt curtain. With the implementation of remedial works, the marine water quality was resumed to ambient level. Tby and SS levels were complied with the relevant Action and Limit Level from 23 to 30 April 2007.	7-May-07	Refer to ET's field record & CT's daily records.
4-Apr-07	Mid-ebb	WWA1	-	-	-	-	6.5	7.5	8.1	13.0	10.7	14.0				
4-Apr-07	Mid-ebb	WWA3	-	-	-	-	6.5	4.6	7.1	-	-	-				
4-Apr-07	Mid-flood	WWA3	-	-	-	-	6.6	4.2	7.0	-	-	-				
18-Apr-07	Mid-ebb	WWA1	-	-	-	-	-	-	-	13.0	6.8	18.5				
18-Apr-07	Mid-ebb	WWA2	-	-	-	-	-	-	-	13.0	8.5	16.8				
20-Apr-07	Mid-ebb	WWA1	-	-	-	-	-	-	-	13.0	6.0	13.2				
20-Apr-07	Mid-ebb	WWA2	-	-	-	-	6.5	5.0	12.7	13.0	7.8	16.8				
20-Apr-07	Mid-ebb	WWA3	-	-	-	-	6.5	6.2	8.5	-	-	-				

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				
10-Apr-07	Mid-ebb	WWFCZ1	-	-	-	-	-	-	-	13.0	8.0	14.5	The impact station WWFCZ1 is located away from the construction site. Exceedances were not recorded at stations closer to the site (WWA1, WWA2 and WWA3). The exceedance was likely attributed from an unidentified source, and not related to the construction activities of the Project. The Contractor, however, was reminded to keep regular maintenance of the silt curtain.	Contractor has conducted inspection of the silt curtain on a daily basis since late April 2007.	7-May-07	Refer to ET's field record & CT's daily records.

Appendix G

Silt curtain daily inpsection record

俊和
CHUN WO

Project : Castle Peak Road Improvement

(1)

Seawall B Silt Curtain Daily Inspection Record

Date	Condition	Action
9/4/2007 (Mon)		
10/4/2007 (Tue)		
11/4/2007 (Wed)		
12/4/2007 (Thu)		
13/4/2007 (Fri)		
14/4/2007 (Sat)	A new Silt curtain installed	N/A
15/4/2007 (SUN)	N/A	N/A

Inspected by Chun Wo LAM KEUNG FAI

Date: 26/4/2007

Inspected by MHJV

Date: 26.4.07

(2)

俊和
CHUN WO

Project : Castle Peak Road Improvement

Seawall B Silt Curtain Daily Inspection Record

Date	Condition	Action
16/4/2007 (Mon)	Good	N/A
17/4/2007 (Tue)	Good	N/A
18/4/2007 (Wed)	Muddy water were found outside silt curtain.	Investigation by tomorrow.
19/4/2007 (Thu)	Muddy water were found outside silt curtain.	Additional geo-textile erected immediately along the bottom edge of slope 82.
20/4/2007 (Fri)	A few location of silt curtain were found damage.	• Investigation by diver to be arranged by tomorrow. • All excavation work was suspended.
21/4/2007 (Sat)	• No works commenced. • No muddy water observed.	Diver absent, Investigation by next Monday.
22/4/2007 (SUN)	N/A	N/A

Inspected by Chun Wo LAM KIN KEUNG

Date: 21/04/2007

Inspected by MHJV

Date: 21.4.07

(3)

俊和
CHUN WO

Project : Castle Peak Road Improvement

Seawall B Silt Curtain Daily Inspection Record

Date	Condition	Action
23/4/2007 (Mon)	No works.	Earth Bund Removal on Slope 82.
24/4/2007 (Tue)	No works (Red Rain Storm Hoisted).	Closing the gaps between silt curtains.
25/4/2007 (Wed)	No works. (rain) No muddy water observed.	N/A
26/4/2007 (Thu)	No works commenced. No muddy water observed	Damaged silt curtain will be fixed by tomorrow.
27/4/2007 (Fri)	No works commenced. No muddy water observed	Fixing damaged silt curtain.
28/4/2007 (Sat)	No works commenced. No muddy water observed	New silt curtain installed.
29/4/2007 (SUN)	N/A	N/A

Inspected by Chun Wo Gary Lam

Date: 30/04/2007

Inspected by MHJV Mr Mok

Date: 3-5-07

Appendix H

New Environmental Licence

FORM 3 [reg.5(a)]
NOISE CONTROL ORDINANCE
(Chapter 400)
SECTION 8(9)

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

CONSTRUCTION NOISE PERMIT NO. GW-RW0155-07

To : Chun Wo Construction & Engineering Company Limited

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

CONDITIONS

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

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

Lot No. ------

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

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

3. Powered Mechanical Equipment

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

Identification code of item of powered mechanical equipment (if applicable)	*Description of item of powered mechanical equipment*	*No. of units*
	Refer to attached sheet	

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

Date and time of commencement : 4 April 2007 at 1900 hours

Days and hours : 0000-2400 hours on general holidays (including Sundays), 0000-0700 hours and 1900-2400 hours on any day not being a general holiday [but note Condition 3.d.1 below for the operating hours within which the use of the above listed powered mechanical equipment is allowed].

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

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

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

Refer to attached sheet.

EPD76A(5)

4. Prescribed Construction Work

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

Identification code of type of prescribed construction work	*Description of type of prescribed construction work*
	NIL

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

Date and time of commencement : 4 April 2007 at 1900 hours

Days and hours : 0000-2400 hours on general holidays (including Sundays), 0000-0700 hours and 1900-2400 hours on any day not being a general holiday

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

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

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

Not Applicable

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

Dated this 4th day of April 2007

Signed:

(LEUNG Cho-shing)

for Authority

* Delete as necessary

表格 3 [第5(a)條]

噪音管制條例
(第400章)
第8(9)條

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

建築噪音許可證編號: GW-RW0155-07

致：俊和建築工程有限公司

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

條 件

1. 可使用機動設備及／或進行訂明建築工程的建築地盤：

詳細地址： 新界荃灣青龍頭西-青山公路

地段編號: ------

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

2. 該地盤部份/全部*位於指定範圍之內/外*。

3. 機動設備

a. 在地盤範圍內可使用的各項機動設備：

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

b. 可使用機動設備的建築噪音許可證有效期：

生效日期及時間： 二零零七年四月四日 下午七時正

日期及時間： 公眾假日（包括星期日）的凌晨零時至晚上十二時；公眾假日以外的任何一日凌晨零時至上午七時及下午七時至晚上十二時 [但須注意條件 3.d.1 有關可以使用上列機動設備的時間]。

此部分許可證屆滿日期及時間： 二零零七年八月十五日 晚上十一時正
日期 時間

c. 建築地盤須備有本建築噪音許可證所述每件機動設備的照片各一幀，供監督隨時查看；該等照片須經監督認可。

d. 規限使用機動設備的其他條件：

參見附頁

4. 訂明建築工程

a. 在地盤範圍內可進行的訂明建築工程：

訂明建築工程的識辨代碼	*訂明建築工程的類別的說明*
	無

b. 可進行訂明建築工程的建築噪音許可證有效期：

生效日期及時間： 二零零七年四月四日 下午七時正

日期及時間： 公眾假日（包括星期日）的凌晨零時至晚上十二時；公眾假日以外的任何一日凌晨零時至上午七時及下午七時至晚上十二時

此部分許可證屆滿日期及時間： 二零零七年八月十五日 晚上十一時正
日期 時間

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

d. 規限進行訂明建築工程的其他條件：

不適用

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

日期： 二零零七年四月四日

簽署： (梁祖成 代行)
監督

* 刪去不適用者

Sheets Attached to
Construction Noise Permit No. GW-RW0155-07

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

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

Signed: _____
(LEUNG Cho-shing)
for Authority

Sheets Attached to
Construction Noise Permit No. GW-RW0155-07

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

1. The above listed powered mechanical equipment shall only be operated during the hours shown below:

General Holiday (including Sunday)	0700-2300 hours
Any day not being a general holiday	1900-2300 hours

2. The powered mechanical equipment shall only be operated within the corresponding work zones specified in condition no. 3a above.

3. In each work zone, only one group of the powered mechanical equipment listed in condition no.3a shall be operated at any time.

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

Signed: _____
(LEUNG Cho-shing)
for Authority

建築噪音許可證
編號 GW-RW0155-07 的附頁

3a. 在地盤範圍內可使用的各項機動設備：

各項機動設備的識辨代碼（如適用的話）	各項機動設備的說明	數目	工作範圍
A 組			
-------	灌漿攪拌機	壹	I 及 II
-------	灌漿泵	壹	
-------	發電機，在距離發電機中心點的 7 米所量度的聲壓級（A）≦ 75 分貝(A)	貳	
CNP 283	潛水泵（電動）	陸	
B 組			
-------	灌漿攪拌機	壹	I 及 II
-------	灌漿泵	壹	
-------	空氣壓縮機，備有噪音標籤顯示聲功率級≦ 102 分貝(A)	壹	
C 組			
-------	發電機，在距離發電機中心點的 7 米所量度的聲壓級（A）≦ 75 分貝(A)	壹	I 及 II
CNP 283	潛水泵（電動）	參	
D 組			
-------	發電機，在距離發電機中心點的 7 米所量度的聲壓級（A）≦ 75 分貝(A)	壹	I 及 II
CNP 283	潛水泵（電動）	叁	
-------	吊臂貨車，總重量≦ 38 噸	壹	
E 組			
-------	發電機，在距離發電機中心點的 7 米所量度的聲壓級（A）≦ 75 分貝(A)	壹	I
CNP 283	潛水泵（電動）	柒	
CNP 081	挖土機，履帶式	壹	
F 組			
-------	發電機，在距離發電機中心點的 7 米所量度的聲壓級（A）≦ 75 分貝(A)	壹	I 及 II
CNP 283	潛水泵（電動）	叁	
CNP 065	鑽，手提型（電動）	叁	
CNP 065	磨機，手提型（電動）	肆	
G 組			
CNP 045	混凝土攪拌機（電動）	壹	I 及 II
-------	空氣壓縮機，備有噪音標籤顯示聲功率級≦ 102 分貝(A)	壹	

監督
（梁祖成 代行）

建築噪音許可證
編號 GW-RW0155-07 的附頁

3d. 規限使用機動設備的其他條件：

1. 上列機動設備祇可於以下時間內使用：

公眾假日（包括星期日）	早上七時至晚上十一時
公眾假日以外的任何一日	下午七時至晚上十一時

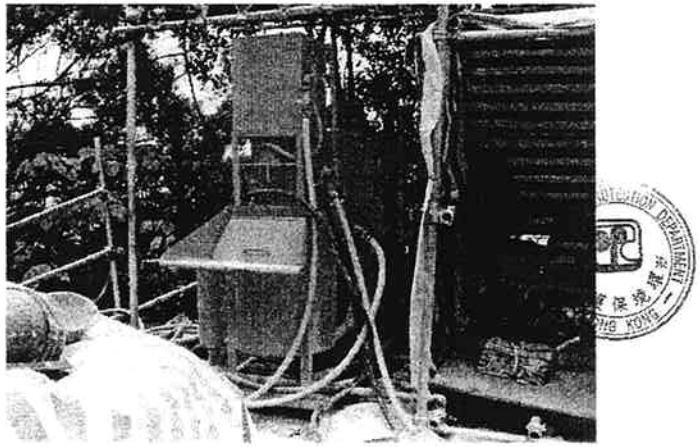
2. 所有機動設備祇可在上述條件 3a 指定的工作範圍內操作。

3. 每個工作範圍內，在任何時間只可使用條件 3a 內載的其中一組機動設備。

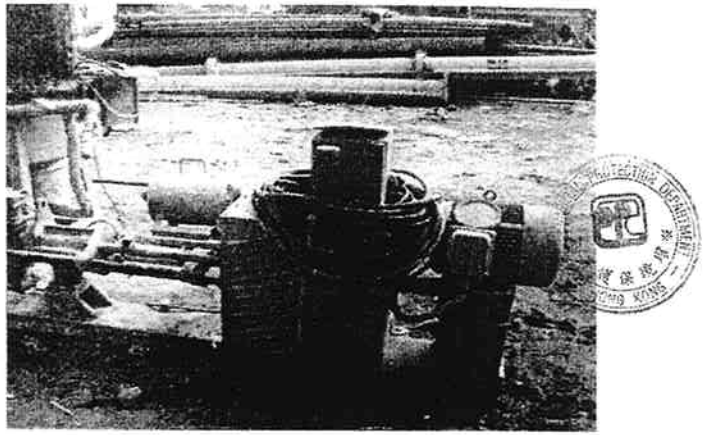
4. 空氣壓縮機及發電機的所有覆蓋及嵌板於操作時必須關閉。

監督
（梁祖成 代行）

建築噪音許可證編號 GW-RW0155-07 的相片
Photographs attached to Construction Noise Permit No. GW-RW0155-07

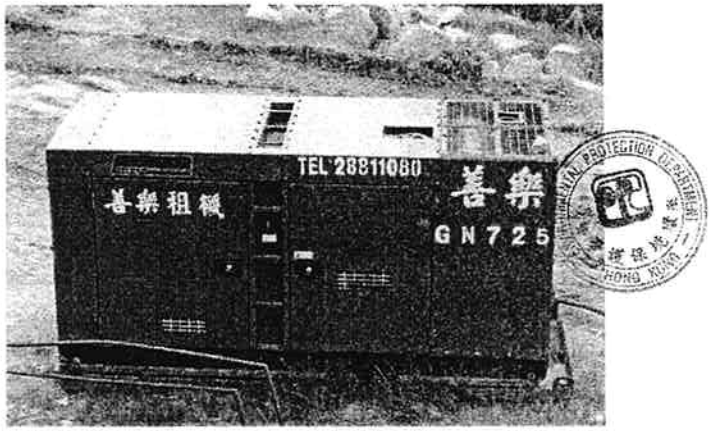


灌漿攪拌機
Grout mixer

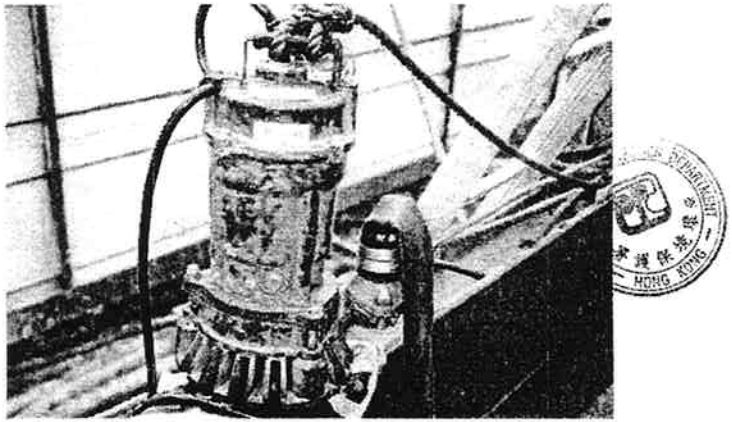


灌漿泵
Grout pump

建築噪音許可證編號 GW-RW0155-07 的相片
Photographs attached to Construction Noise Permit No. GW-RW0155-07



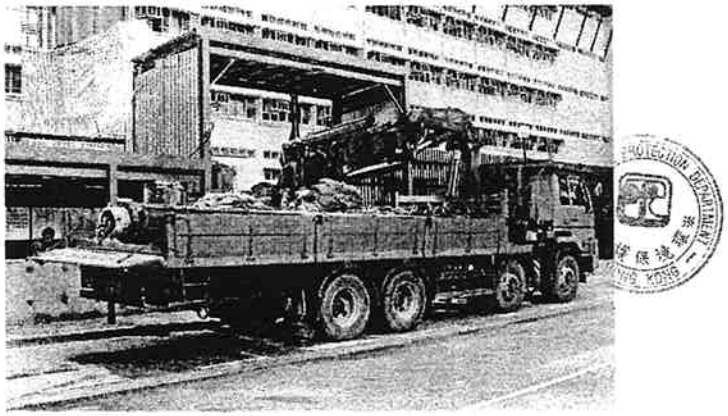
發電機，在距離發電機中心點的 7 米所量度的聲壓級 (A) 為 75 分貝(A)
Generator, with sound pressure level of ≤ 75 dB(A) measured at 7 m from the centre of the generator



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

建築噪音許可證編號 GW-RW0155-07 的相片
Photographs attached to Construction Noise Permit No. GW-RW0155-07

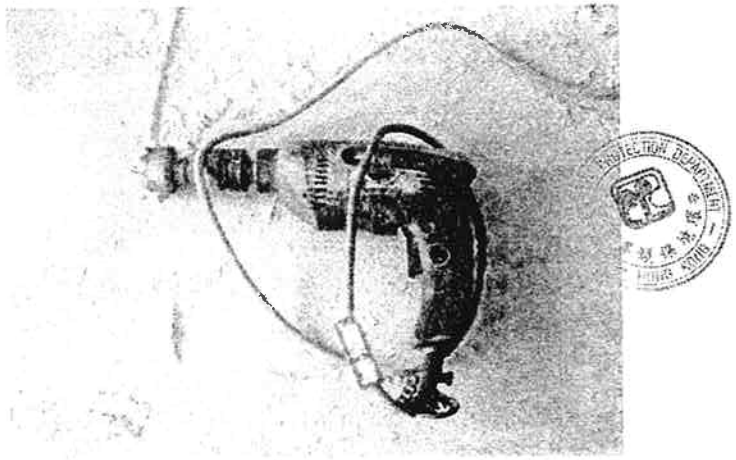
空氣壓縮機，備有噪音標籤顯示聲功率級≦ 102 分貝(A)
Air Compressor, with Noise Emission Label showing
a sound power level of ≦ 102 dB(A)



吊臂貨車，總重量≦ 38 噸
Lorry, with crane, gross vehicle weight ≦ 38 tonnes

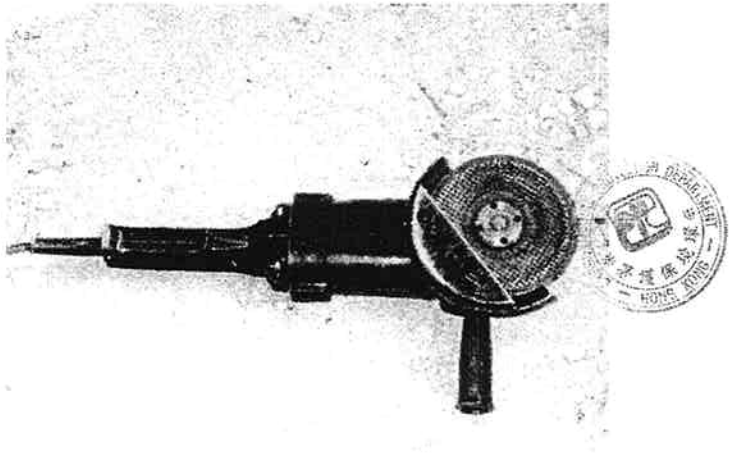
建築噪音許可證編號 GW-RW0155-07 的相片
Photographs attached to Construction Noise Permit No. GW-RW0155-07

CNP 081 挖土機，履帶式
Excavator, tracked

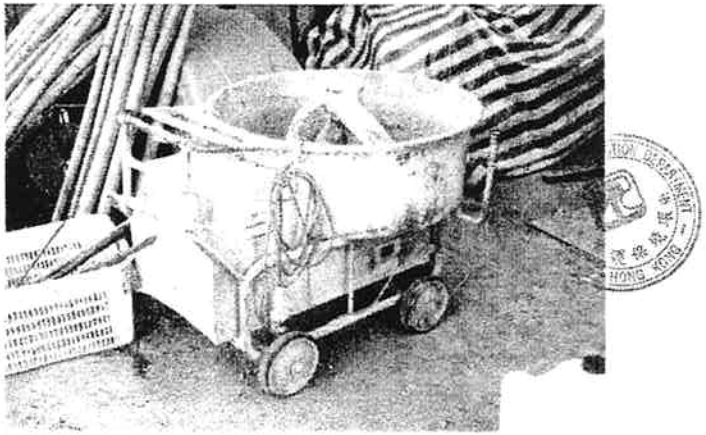


CNP 065 鑽，手提型 (電動)
Drill, hand-held (electric)

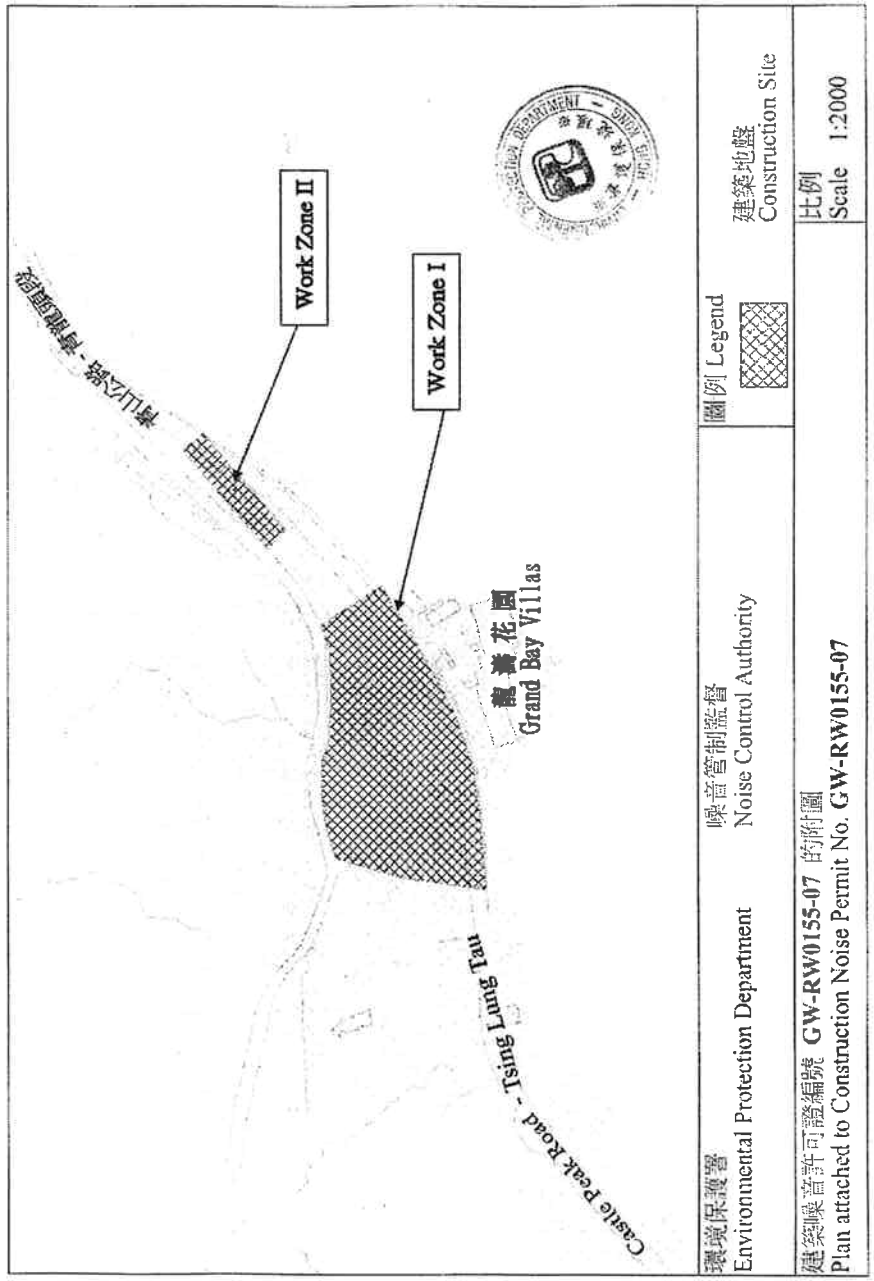
建築噪音許可證編號 GW-RW0155-07 的相片
Photographs attached to Construction Noise Permit No. GW-RW0155-07



CNP 065 磨機，手提型 (電動)
Grinder, hand-held (electric)



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



Appendix I

EPD Inspection Record

環境保護署
污染管制辦事處
(市區西及離島)
新界荃灣
西樓角路 38 號
荃灣政府合署 8 樓

檔案編號：EP760/336/RW3

公司／負責人姓名：俊和工程建築有限公司

執事先生：荃灣青龍頭西建築地盤 (HY/2004/06)

水污染管制條例（第 358 章）
巡查記錄

本署職員於 12.4.2007 在 上午 巡查時，發現貴處所可能有以下問題（在 □ 內有 ✓ 者）：

- □ 廢水由＿＿＿＿＿＿被錯誤接駁到雨水渠 / 內陸水域 / 海岸水域*。
- □ 排放水質很可能達不到牌照標準。
- □ 廢水處理設施缺乏適當設計 / 操作 / 維修*，導致排放出不符合標準的污水。問題可能包括＿＿＿＿＿＿。
- □ 廢水處理不足，以致排放物未能達致牌照標準。
- □ 廢水由化糞池及滲水系統經溢流管排入雨水渠/內陸水域/海岸水域*。
- □ 排放並非未經污染的水。
- ☑ 其他：(1)在岸邊張貼工作位置，未有安裝 silt-curtain 引致污染沿岸海水。
  (2)在打石工程中，未有採取有效措施，引致塵埃。

2. 你必須採取一切所需的措施去防止以上問題發生，以免觸犯法例。否則，我們將會根據水污染管制條例採取法律行動。

3. 你亦需要：＿＿＿＿＿＿

4. 如有任何查詢，請致電 24176109 與 鍾先生 聯絡。

備註：此表須與附頁一併閱讀，該頁有環保署及公司/負責人的代表簽名，和關於這表的註釋。

*刪去不適用者

CHUN WO
HY/2005/06
12 APR 2007
RECEIVED

巡查記錄

條例／規例	附上的表格 (有✓者)	
	粉紅色	黃色
空氣污染管制條例 / 空氣污染管制 規例		✓
噪音管制條例		
廢物處置條例 / 廢物處置（化學廢物）（一般）規例		
廢物處置條例 / 廢物處置（禽畜廢物）規例		
水污染管制條例		✓
發件人	姓名：鍾少倫 職級及職位：SI(RW)3 電話號碼：24176109 簽名： 日期：12.4.2007	
收件人 *（見備註）*	姓名：Jeff Lau 職位：Senior Engineer 電話號碼：2891 1214 簽名： 日期：12/04/2007.	
公司印鑑	CHUN WO CONST. & ENG. CO. LTD. HY/2005/06	

備註：

1. 附表爲記錄環保署職員在現場所提供的建議及採取的行動。
2. 收件人應獲授權爲公司／負責人代收巡查記錄。
3. 收件人須盡快把記錄轉交負責人，讓其知道污染問題／違例情況／可能的法律行動，並即時採取所有需要的措施以防止污染問題／更正違例情況。
4. 本署會因應違例情況而向有關的公司／負責人採取法律行動。