

Chun Wo Construction &
Engineering Co Ltd

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

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

Second Issue

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Tsing Lung Tau

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September 2006

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

Job number 24583

Maunsell Environmental Management Consultants Ltd

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By Fax (2417 0134) and PostMeinhardt Halcrow JV
4/F., Wah Ming Centre,
421 Queen's Road West,
Hong Kong**Attn : Mr. Michael S Harfoot**

12 September 2006

Dear Sir,

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

We refer to the Monthly EM&A Report for Reclamation Works (EP No. EP-219/2005) – August 2006 received via emails on 11 September 2006 from Ove Arup & Partners Hong Kong Ltd., the Environmental Team (ET) of Castle Peak Road Improvement – West of Tsing Lung Tau (Remaining Contract).

Having addressed the IEC's comment on 12 September 2006, the Monthly EM&A Report for Reclamation Works (EP No. EP-219/2005) – August 2006 is verified to be acceptable for onward submission to the Engineer, HyD, EPD and AFCD.

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

Yours faithfully

for and on behalf of

**Maunsell Environmental
Management Consultants Ltd**


Y T Tang


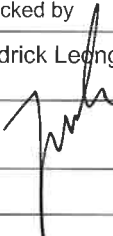
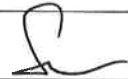
Independent Environmental Checker

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

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Executive Summary

This is the sixth monthly environmental monitoring and audit (EM&A) report presenting the progress of environmental monitoring and audit works for the reporting period between 1 August 2006 and 31 August 2006. Noise monitoring at Grand Bay Villa was temporarily suspended as the premises were vacant with no resident. Marine water monitoring and weekly environmental site audit were carried out during the reporting period.

Marine Water Quality

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

Summary of Mid-Ebb Tide

The lowest DO level for surface & middle position was 5.62 mg/L at WWFCZ1 on 14 August 2006 and the lowest DO level for bottom position was 5.35 mg/L at WWA3 on 30 August 2006. There were no exceedances of DO level during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest depth-averaged Tby level was 7.6 Nephelometric Turbidity Unit (NTU) at WWA2 on 9 August 2006. There was 1 exceedance of Tby Limit Level on 9 August 2006 when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest SS level was 17.8 mg/L at WWFCZ1 on 18 August 2006. There were 12 exceedances of SS Baseline Check Criteria on 11, 18, 23 and 25 August 2006 when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

Summary of Mid-Flood Tide

The lowest DO level for surface & middle and bottom positions were 5.58 mg/L and 5.32 mg/L at WWA3 respectively on 18 August 2006. There were no exceedances of DO levels during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest depth-averaged Tby level was 8.6 NTU at WWFCZ2 on 14 August 2006. There were no exceedances of Tby Levels during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest SS level was 23.2 mg/L at WWA2 on 18 August 2006. There were 3 exceedances of SS Baseline Check Criteria on 11, 18 and 25 August 2006 when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

Environmental Auditing

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

Air quality: Regular watering on exposed slopes and excavated materials;

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

Waste Management: Frequent clearing of construction waste and general refuse

Chemical Waste: Provision of drip trays to oil drums

Waste Disposal

A total of 7 tonnes of Construction & Demolition (C&D) waste and a total of 481 tonnes of C&D materials (transported by trucks) were disposed of at WENT Landfill and Public Filling Reception Facility at Tuen Mun Area 38 respectively in August 2006. No chemical waste was disposed of during the reporting period.

Complaint Records

No environmental complaint was received during the reporting period.

Exceedance

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

No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at monitoring stations during the reporting period. All the exceedances were marginal to Baseline Check Criteria. During the reporting period, formwork, reinforcement works and concreting were conducted at Seawall A and B. Hence, the exceedance were unlikely due to the construction works of the Project.

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

Notification of Summons and Successful Prosecution

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

Environmental Licences

There was no environmental licence 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.

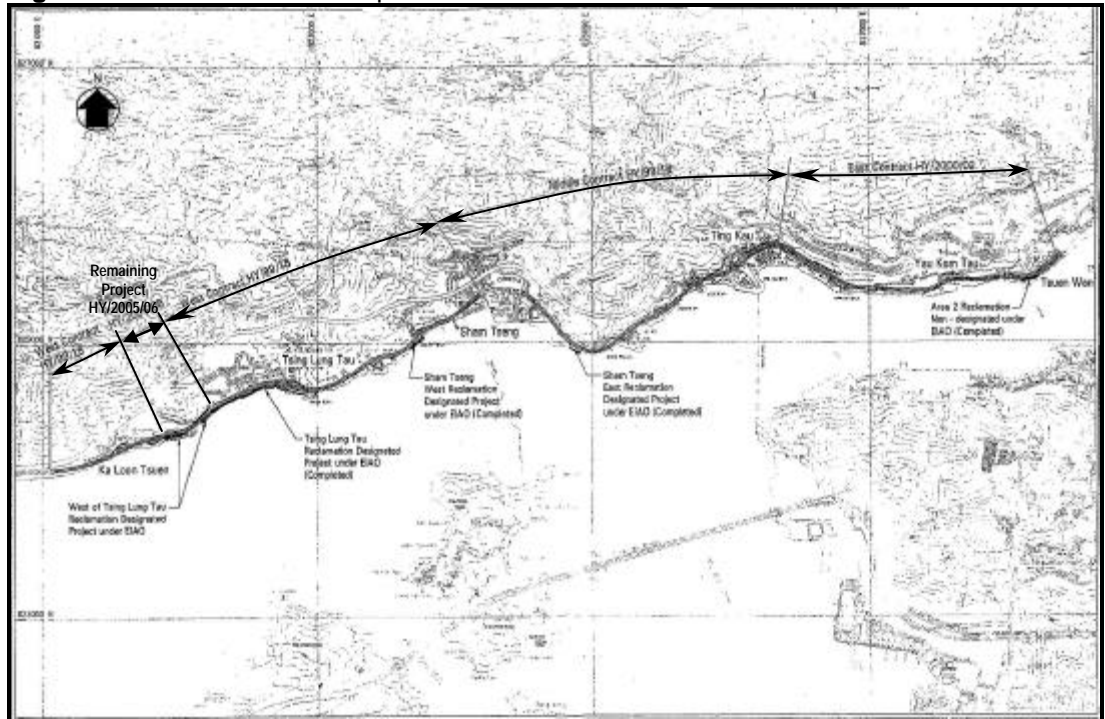
Following subsequent developments, the Route 10 project was placed under review, and Government therefore decided to implement the excised section of CPR (the Remaining Project) under the original CPR Improvement project. **Figure 1-1** shows the site location plan.

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.

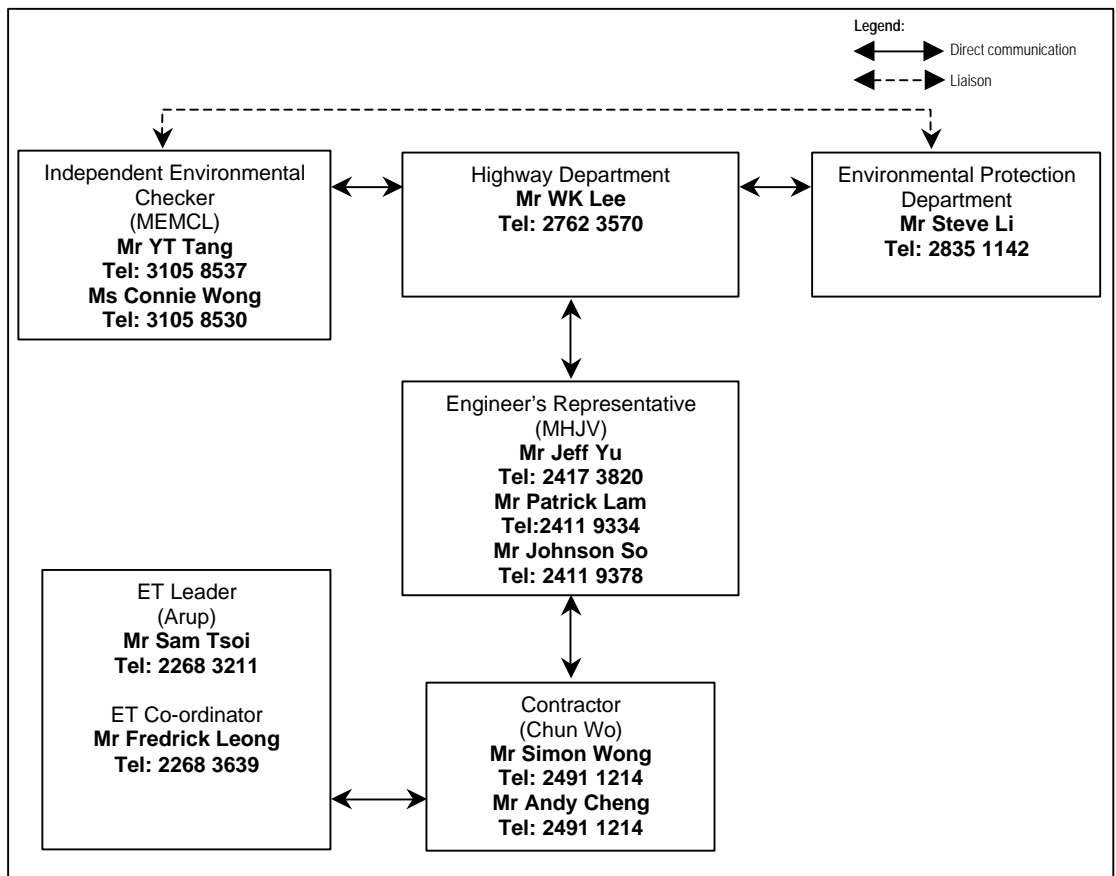
Figure 1-1: Site location plan



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 sixth monthly EM&A report summarising the monitoring methodology, locations, periods, frequencies, results and any observation from the noise, marine water quality and environmental site audit from 1 August 2006 to 31 August 2006.

2 Scope of Construction Works

2.1 Construction Programme

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

2.2 Construction Activities of the Month

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

- Construction of lower RC retaining wall and placement of rockfill at Seawall A; and
- Construction of RC retaining wall and backfilling at Seawall B.

3 Summary of EM&A Requirements

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

The monitoring schedule for August 2006 and the tentative schedule for September 2006 are attached in **Appendix B**.

3.1 Construction Noise

3.1.1 Monitoring Parameters

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

3.1.2 Monitoring Frequency

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

Table 3-1: Construction noise monitoring parameters and frequency

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

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

3.1.3 Monitoring Location

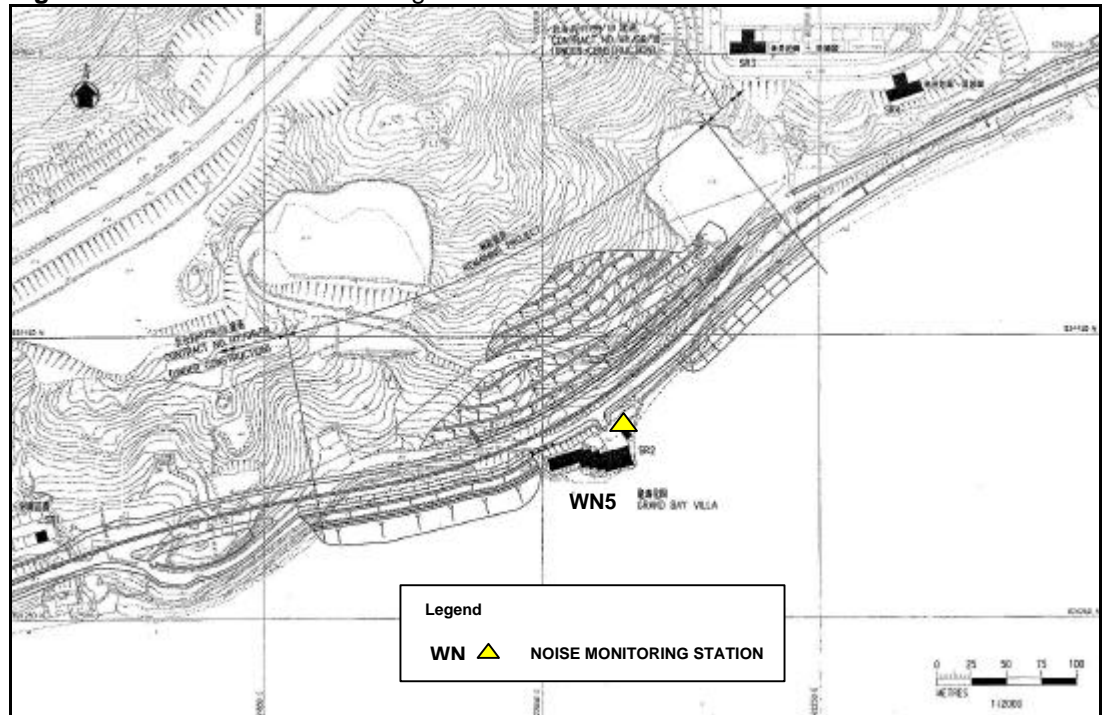
Noise monitoring will be conducted at one designated location as shown in **Figure 3-1**. The details of the noise monitoring location are given in **Table 3-2**. The measurements will be taken at a position 1m from the exterior of building façade and at a position of 1.2m above ground.

Table 3-2: Construction noise monitoring locations

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

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

Figure 3-1: Noise monitoring station



3.2 Marine Water Quality

3.2.1 Monitoring Parameters

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

3.2.2 Monitoring Frequency

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

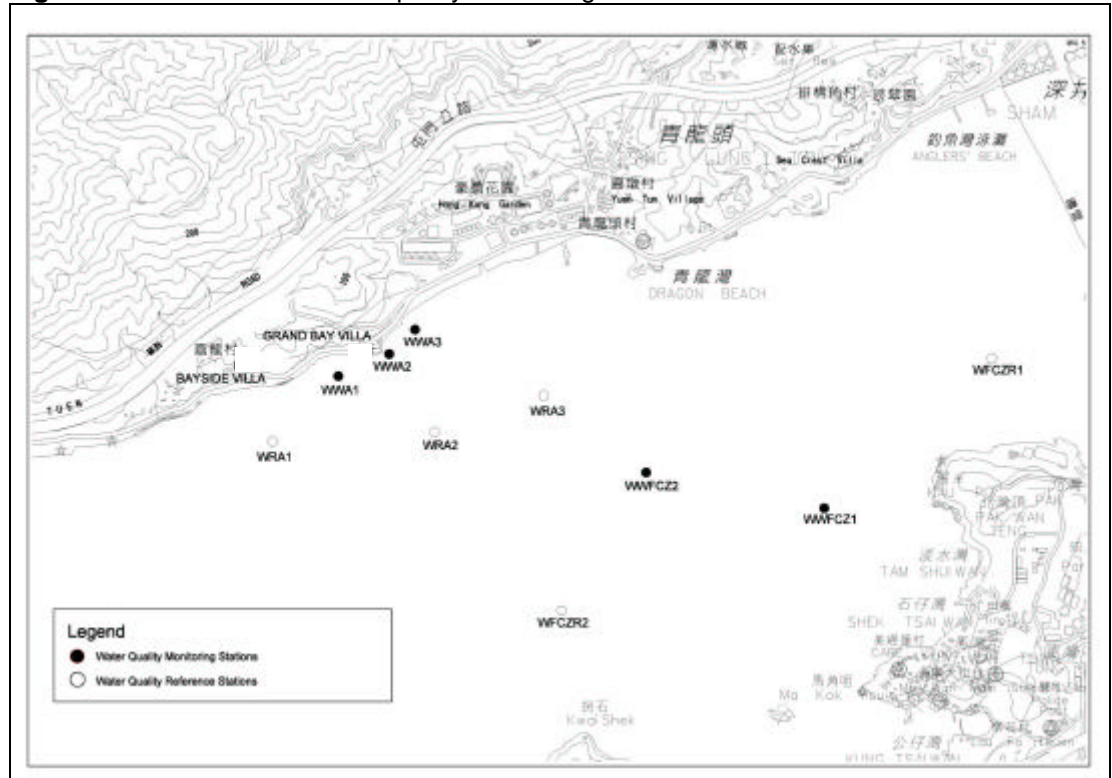
3.2.3 Monitoring Locations

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

Table 3-3: Marine water quality monitoring locations

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

Figure 3-2: Marine water quality monitoring locations



3.3 Performance Limits and Event and Action Plan

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

3.3.1 Construction Noise

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

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

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

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

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

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

3.3.2 Marine Water Quality

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

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

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

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

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

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

Notes:

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

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

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

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

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

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

3.4 Site Inspection and Environmental Complaint Handling

3.4.1 Site Inspection Frequency and Areas Covered

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

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

3.4.2 Site Inspection Procedures

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

3.4.3 Environmental Complaints

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

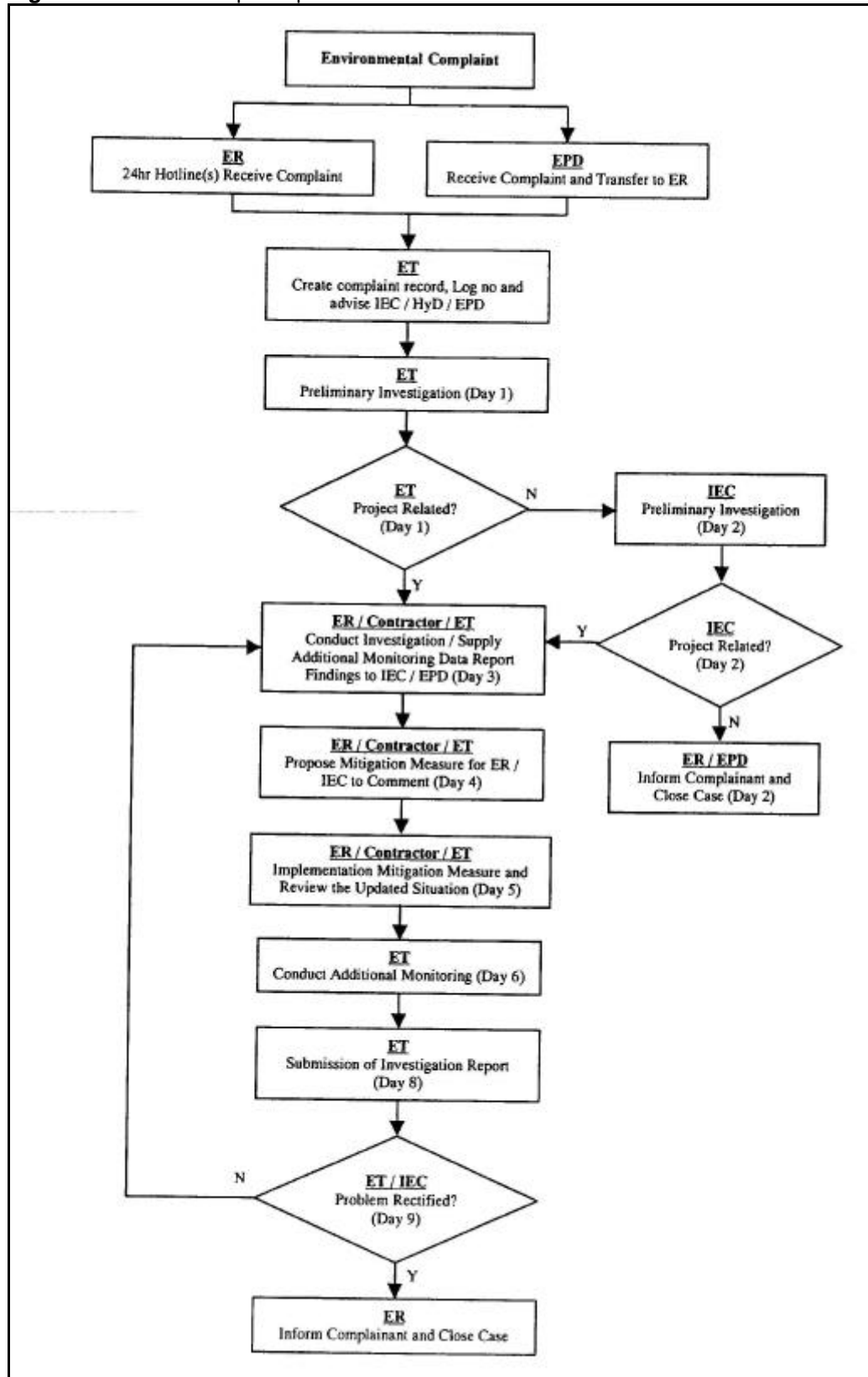
- a) The ET will record the details of the complaint and the date of receipt into the complaint database, and inform ER immediately.
- b) The ET will perform compliant investigation to determine its validity and to assess whether the source of the problem is due to work activities.
- c) The ER will instruct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

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

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

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

Figure 3-3: Complaint procedure



4 Noise Monitoring

4.1 Monitoring Equipment

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

Table 5-1: Equipment list for construction noise monitoring

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

4.2 Methodology

4.2.1 Occupancy Status of Grand Bay Villa

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

4.2.2 Field Measurement

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

4.2.3 Equipment Maintenance and Calibration

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

4.3 Results and Observations

4.3.1 Occupancy Status of Grand Bay Villa

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

5 Marine Water Quality Monitoring

5.1 Marine Water Quality Monitoring Equipment

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

Table 5-1: Marine water quality monitoring equipment

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

5.2 Methodology

5.2.1 DO, Temperature and Salinity Measuring Equipment

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

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

5.2.2 Tby Measurement Instrument

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

5.2.3 SS

The following equipment was used to monitor the SS:

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

5.2.4 Water Depth Detector

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

5.2.5 Location of the Monitoring Site

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

5.2.6 Calibration and Accuracy of Instrumentation

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

5.3 Results and Observations

5.3.1 Weather Conditions and Other Factors

No adverse weather conditions were recorded during the reporting period.

5.3.2 Summary of Results

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

Summary of Mid-Ebb Tide

The lowest DO level for surface & middle position was 5.62 mg/L at WWFCZ1 on 14 August 2006 and the lowest DO level for bottom position was 5.35 mg/L at WWA3 on 30 August 2006. There were no exceedances of DO level during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest depth-averaged Tby level was 7.6 Nephelometric Turbidity Unit (NTU) at WWA2 on 9 August 2006. There was 1 exceedance of Tby Limit Level on 9 August 2006 when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest SS level was 17.8 mg/L at WWFCZ1 on 18 August 2006. There were 12 exceedances of SS Baseline Check Criteria on 11, 18, 23 and 25 August 2006 when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

Summary of Mid-Flood Tide

The lowest DO level for surface & middle and bottom positions were 5.58 mg/L and 5.32 mg/L at WWA3 respectively on 18 August 2006. There were no exceedances of DO levels during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest depth-averaged Tby level was 8.6 NTU at WWFCZ2 on 14 August 2006. There were no exceedances of Tby Levels during reporting period when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

The highest SS level was 23.2 mg/L at WWA2 on 18 August 2006. There were 3 exceedances of SS Baseline Check Criteria on 11, 18 and 25 August 2006 when compared with the established A/L Levels and baseline check criteria in Section 3.3 of this report.

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

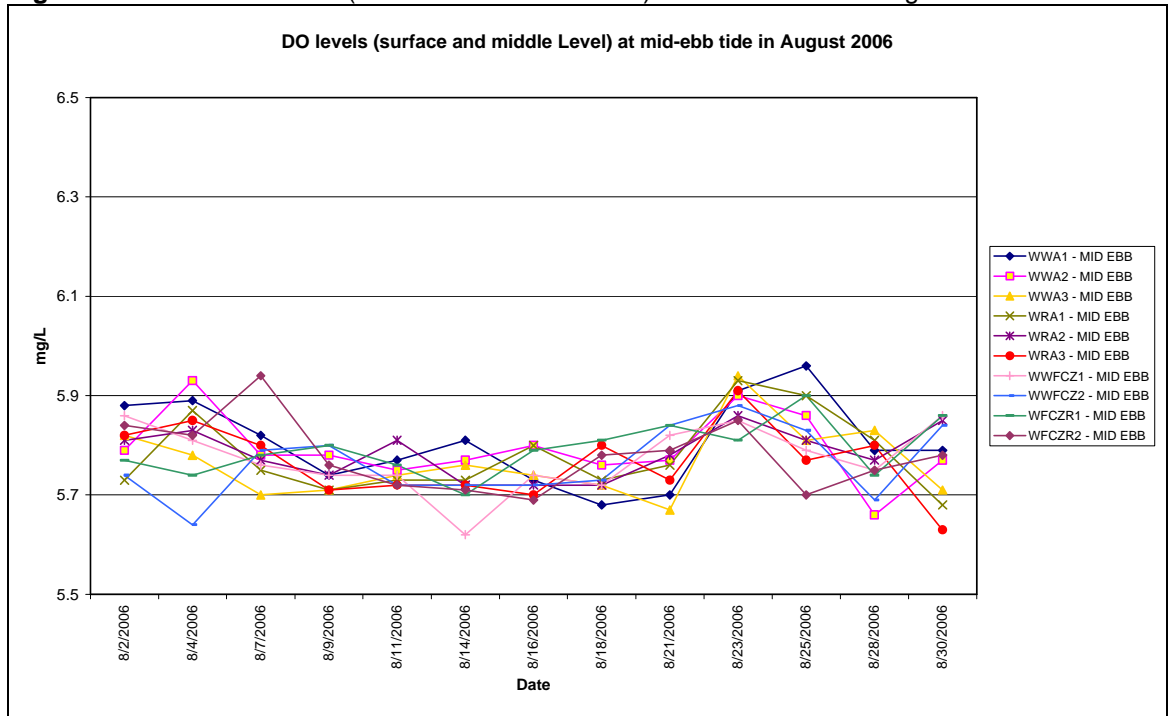


Figure 5-2: DO levels (bottom level) at mid-ebb tide in August 2006

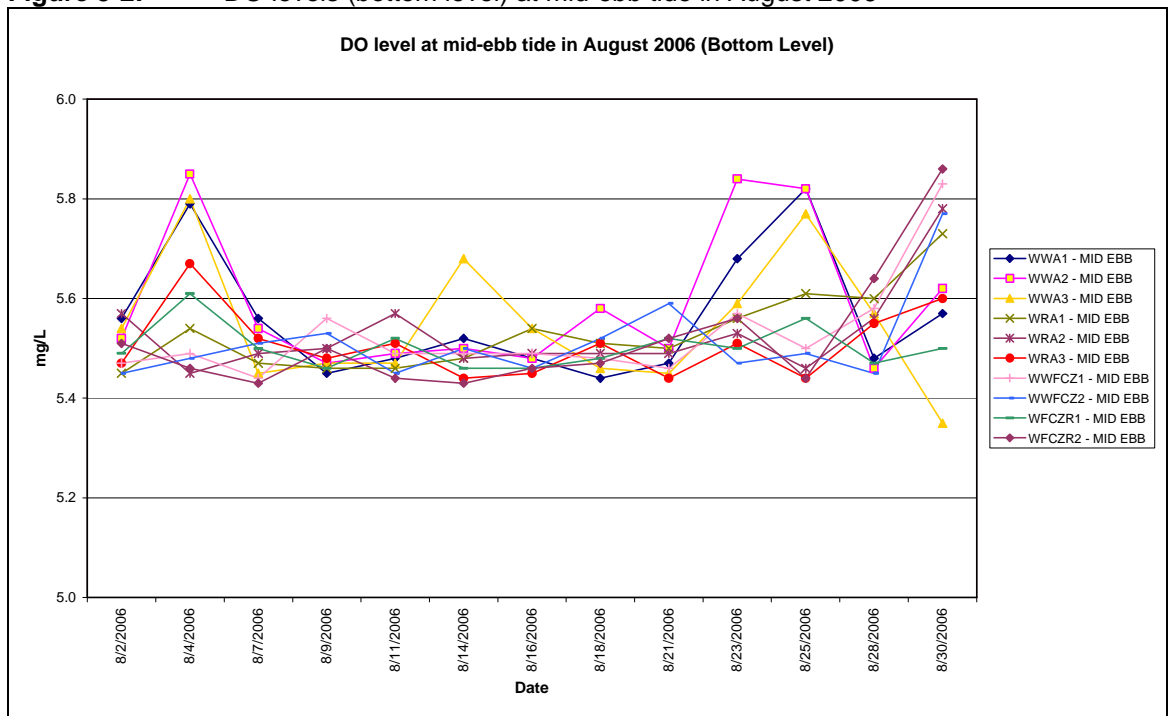


Figure 5-3: DO levels (surface and middle level) at mid-flood tide in August 2006

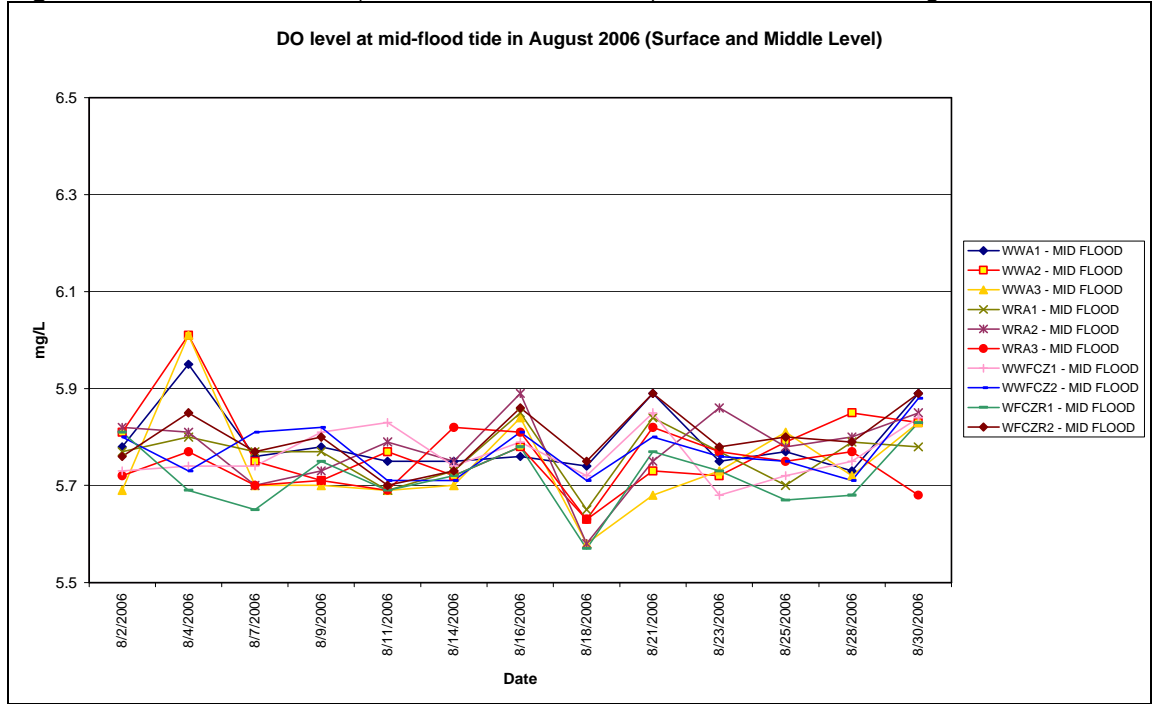


Figure 5-4: DO levels (bottom level) at mid-flood tide in August 2006

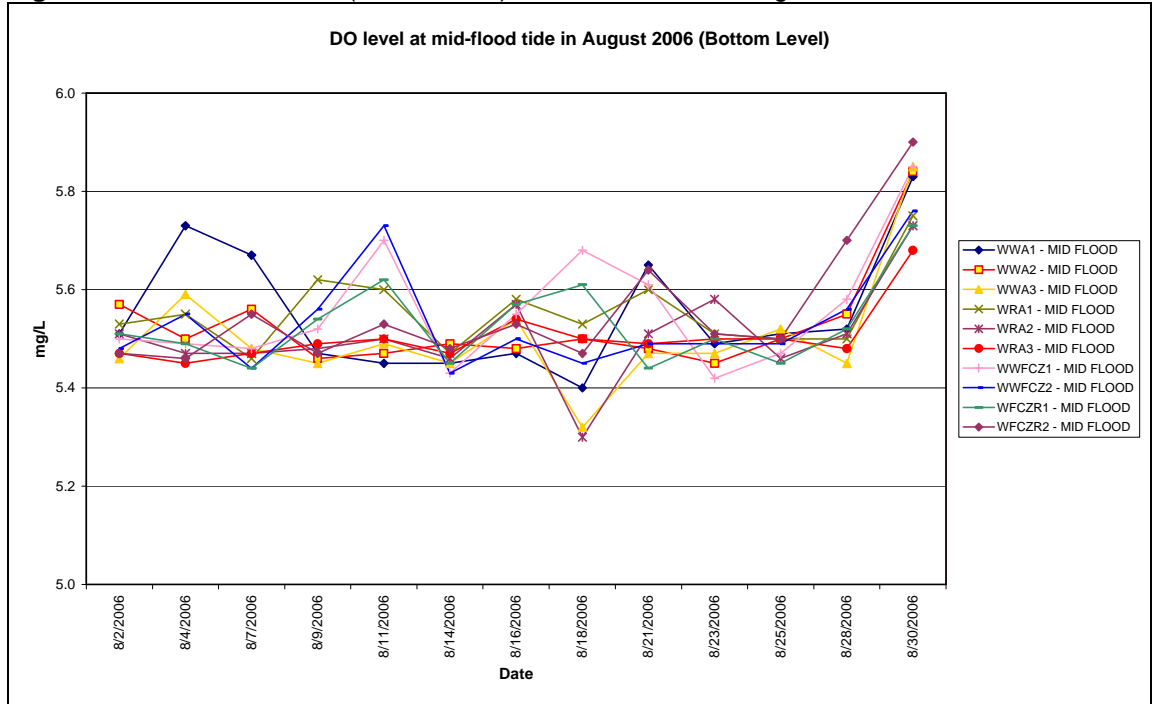


Figure 5-5: Turbidity levels at mid-ebb tide in August 2006

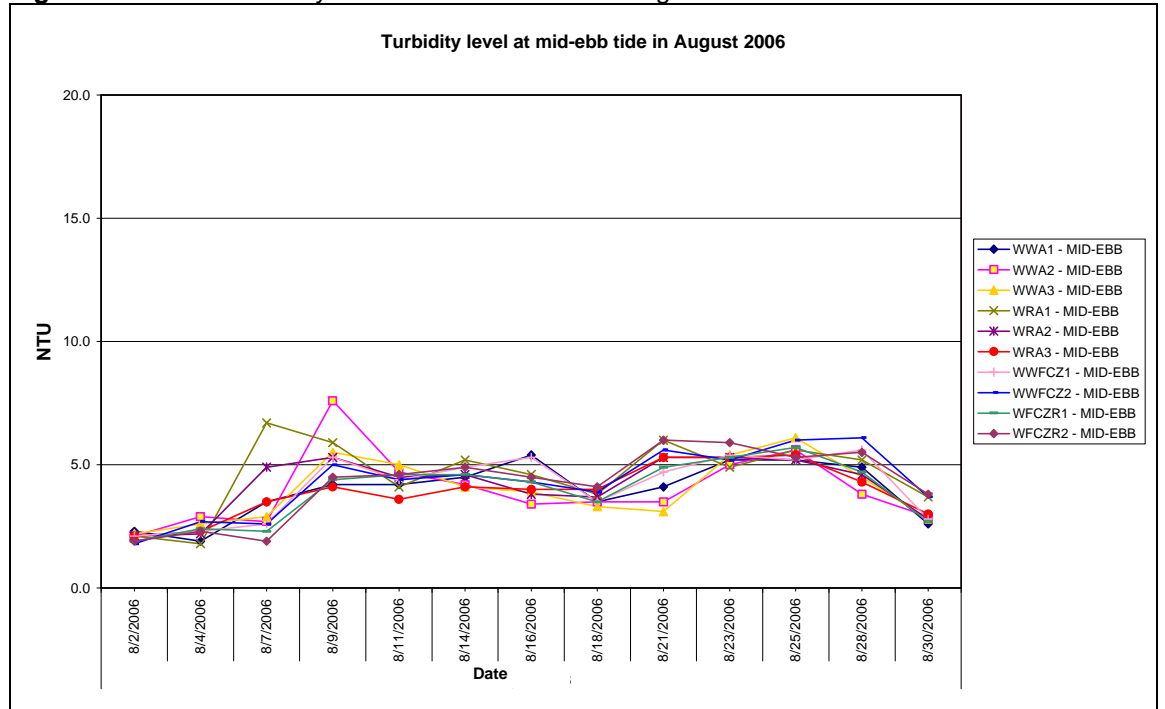


Figure 5-6: Turbidity levels at mid-flood tide in August 2006

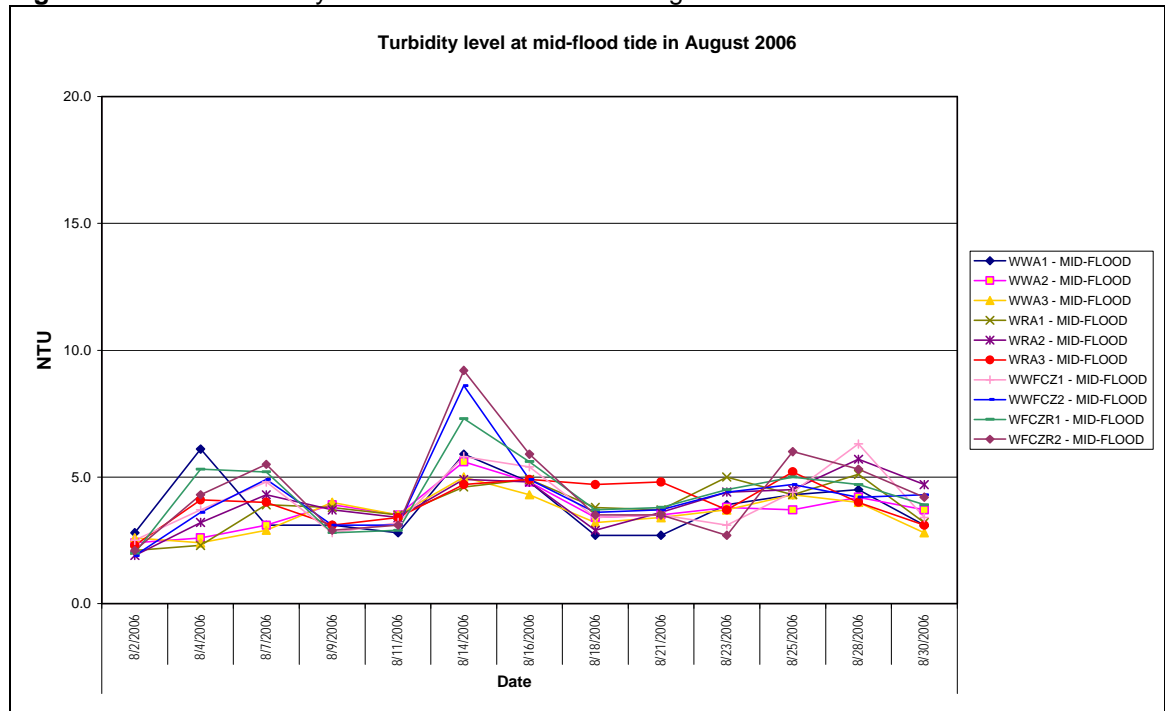


Figure 5-7: SS levels at mid-ebb tide in August 2006

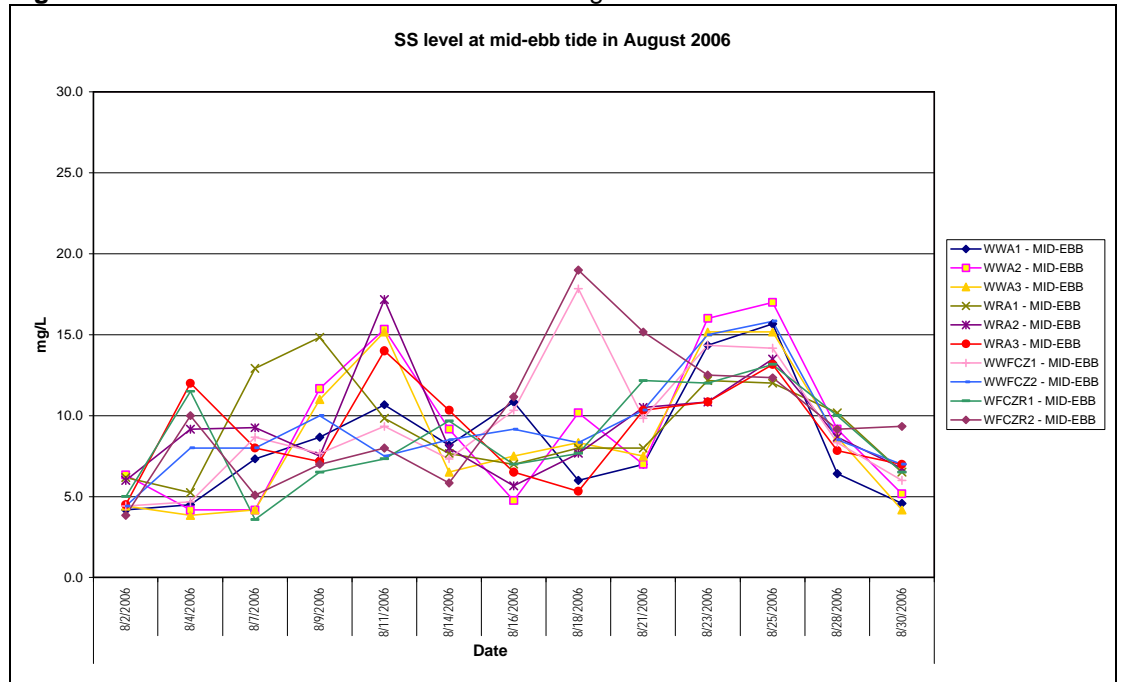
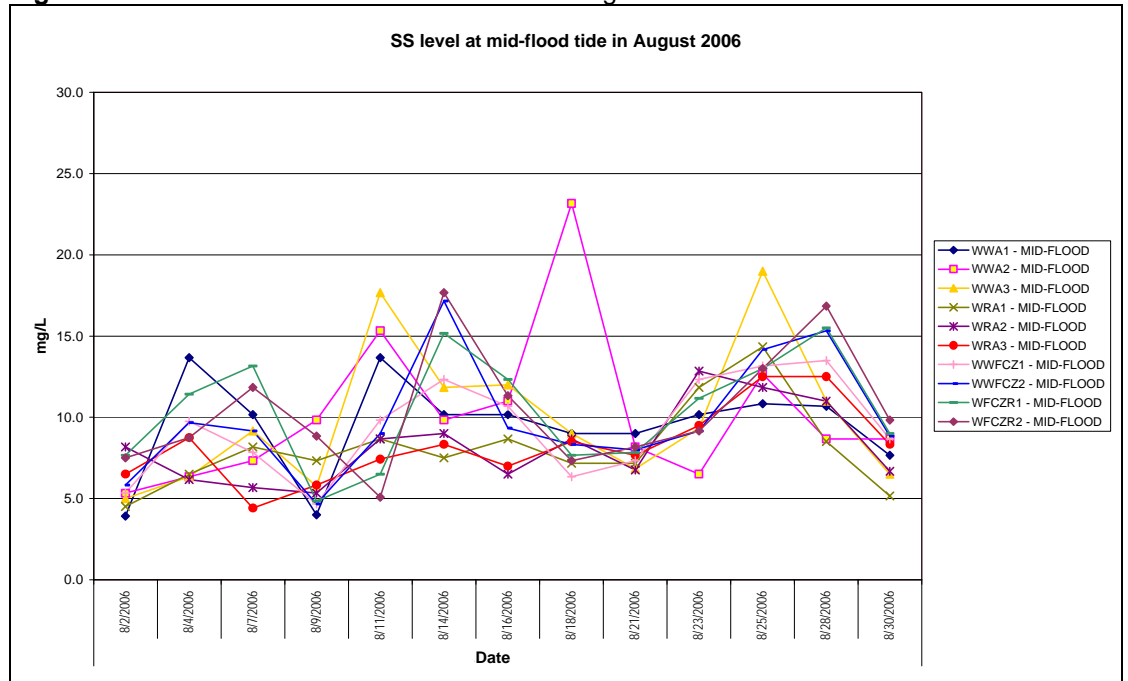


Figure 5-8: SS levels at mid-flood tide in August 2006



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

6.1 Site Audit Findings

Five weekly environmental site audits were carried out on 3, 10, 17, 24 and 31 August 2006. The findings of the site audits are summarised in **Table 6-1**.

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

Date of Issue Raised	Observation	Advice from EA	CT's Response / Environmental Outcomes	Closing Date
03 August 2006 (WTLT 028)	1. Stagnant water was observed within the site.	CT was reminded to clear the stagnant water to prevent mosquito breeding.	Agreed with the ET's advice.	10 August 2006
	2. Tarpaulin, which was used for covering of the excavated material, was observed broken at carpark after a typhoon event.	CT was reminded to repair the tarpaulin or provide appropriate dust suppression and water quality measures during dry/windy and rainy days respectively.	Agreed with the ET's advice.	
	3. Muddy water was observed near outfall of Seawall B and silt curtain was observed loosening.	CT was reminded to repair the silt curtain.	Agreed with the ET's advice.	
	4. Site surface runoff was observed discharging to the gullies without treatment near wheel wash facility.	CT was reminded to divert site runoff to nearby desilting tank before discharging.	Agreed with the ET's advice.	
	5. General refuse was observed scattered within the site after a typhoon event.	CT was reminded to conduct regular clearing of waste.	Agreed with the ET's advice.	
10 August 2006 (WTLT 029)	1. Waste was observed accumulated within Seawall A and B.	CT was reminded to conduct regular clearing of waste.	Agreed with the ET's advice.	17 August 2006
	2. Rubbish collection bins or containers were not observed within Seawall A site.	CT was reminded to provide adequate waste collection containers.	Agreed with the ET's advice.	
	3. Stagnant water was observed near Seawall B.	CT was reminded to clear the stagnant water to prevent mosquito breeding.	Agreed with the ET's advice.	
	4. Empty oil drums were observed within borepiling site.	CT was reminded to store the drums properly.	Agreed with the ET's advice.	

Date of Issue Raised	Observation	Advice from EA	CT's Response / Environmental Outcomes	Closing Date
17 August 2006 (WTLT 030)	1. Stagnant water was observed near Chemical Store.	CT was reminded to clear the stagnant water to prevent mosquito breeding.	Agreed with the ET's advice.	24 August 2006
	2. Site exit of Seawall A was observed dry.	CT was reminded to provide adequate watering during dry and windy days.	Agreed with the ET's advice.	
	3. Muddy water was observed in the vicinity of Seawall A. A gap was observed on the west side of the silt curtain.	CT was reminded to repair the silt curtain prior to commencement of marine works.	Agreed with the ET's advice.	
	4. Outlet of desilting facility was not connected to storm drain directly. There is a potential to cause muddy water when treated effluent passes through unpaved area.	CT was reminded to improve the desilting facility.	Agreed with the ET's advice.	
	5. General refuse and construction waste were observed within Seawall B.	CT was reminded to conduct regular of waste.	Agreed with the ET's advice.	
	6. One oil drum was observed without drip tray and three oil drums were observed with broken drip trays at borepiling site.	CT was reminded to provide drip tray to oil drum and replace all broken drip trays.	Agreed with the ET's advice.	31 August 2006
24 August 2006 (WTLT 031)	1. Refuse which was contained in bags was observed along haulroad of carpark, Seawall A and B.	CT was reminded to conduct regular disposal of waste.	Agreed with the ET's advice.	31 August 2006
	2. Dredging was observed in the concrete box within Seawall A. Silt curtain was observed broken near the east end of the Seawall	CT was reminded to repair the silt curtain to prevent muddy water dispersing.	Agreed with the ET's advice.	
	3. Sedimentation of the site discharge of the soil nailing works of slope was observed. Although no turbid water plume was observed surrounding the site near the outfall of Seawall B.	CT was reminded to clear of the accumulated silt in the sedimentation tank.	Agreed with the ET's advice.	
	4. Mud trails were observed on the Castle Peak Road joining the exit of Seawall B.	CT was reminded to clear the mud trails and provide wheelwashing for all vehicles leaving the site.	Agreed with ET's advice	

Date of Issue Raised	Observation	Advice from EA	CT's Response / Environmental Outcomes	Closing Date
	5. Site clearance was observed on the borepiling Site.	CT was reminded to implement full implementation of appropriate mitigation measures, such as dust suppression, noise minimisation and water quality mitigation measures.	Agreed with ET's advice	
31 Aug 2006 (WTLT 032)	1. Backfilling was observed on Carpark area.	CT was reminded to provide dust suppression measures during dry and windy days.	Agreed with ET's advice	7 September 2006
	2. Soil-nailing was observed on the site beside wheelwash facility.	CT was reminded to provide dust suppression measures.	Agreed with ET's advice	
	3. Oil drum was observed without drip tray within wheelwash site.	CT was reminded to provide drip tray to the oil drum.	Agreed with ET's advice	
	4. Exposed / un-paved / un-hydroseeded areas were observed within the site.	CT was reminded to provide dust suppression and water quality mitigation measures during dry and rainy days respectively.	Agreed with ET's advice	
	5. Stockpiles of excavated materials were observed on the Seawall B site for backfilling the site.	CT was reminded to provide dust suppression and water quality mitigation measures during dry and rainy days respectively.	Agreed with ET's advice	
	6. Exit road to borepiling site was observed dusty and dry.	CT was reminded to spray water along the road and provide cover to the dump truck leaving the site.	Agreed with ET's advice	

6.2 Waste Disposal

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

Table 6-2: Waste disposal quantity in August 2006

Type of waste or material	Disposal at	No. of loads or quantities
C&D waste	WENT Landfill	7 tonnes
C&D material	By truck	481 tonnes
	By barge	0 tonne
Chemical waste	Collected by licensed collector	0

In accordance with the Project Profile “Castle Peak Road Improvement between Area 2 and Ka Loon Tsuen, Tsuen Wan, Remaining Works Contract, Construction of Reclamation West of Tsing Lung Tau”, all dredged material will be transported by trucks to Public Fill Reception Facility (PFRF) at Tuen Mun Area 38 for ultimate reuse by alternative projects. As the depth of marine water near the reclamation site is found to be sufficient for barges to manoeuvre, the CT proposed to deliver the dredged material by barge to the PFRF. It will reduce the double handling of dredged material to the seashore and then to trucks by backhoe. EPD agreed with the CT’s proposal on 18 May 2006 via e-mail. The CT commenced to transport the dredged material by barge on 24 May 2006. During the reporting period, no C&D materials were transported to PFRF by barge.

6.3 Complaint Record

There was no environmental complaint received in August 2006.

6.4 Exceedance

There were exceedances of Tby and SS levels for marine water quality in August 2006 when compared with A/L Levels and baseline check criteria. After ET’s investigation, all exceedances were unlikely due to the construction activities of the Project. These exceedances are summarised in **Table 6.3**.

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

Date	Tide	Location	Exceedances of monitoring data					
			Tby (NTU)			SS (mg/L)		
			Control Station	Impact Station	Exceedance of	Control Station	Impact Station	Exceedance of
9-Aug	Mid-ebb	WWA2	5.3	7.6	Limit Level	-	-	-
11-Aug	Mid-ebb	WWA3	-	-	-	14.0	15.2	Baseline Check
11-Aug	Mid-flood	WWA3	-	-	-	7.4	17.7	Baseline Check
18-Aug	Mid-ebb	WWFCZ1	-	-	-	7.7	17.8	Baseline Check
18-Aug	Mid-flood	WWA2	-	-	-	8.7	23.2	Baseline Check
23-Aug	Mid-ebb	WWA1	-	-	-	12.2	14.3	Baseline Check
23-Aug	Mid-ebb	WWA2	-	-	-	10.8	16.0	Baseline Check
23-Aug	Mid-ebb	WWA3	-	-	-	10.8	15.2	Baseline Check
23-Aug	Mid-ebb	WWFCZ1	-	-	-	12.0	14.3	Baseline Check
23-Aug	Mid-ebb	WWFCZ2	-	-	-	12.5	15.0	Baseline Check
25-Aug	Mid-ebb	WWA1	-	-	-	12.0	15.7	Baseline Check
25-Aug	Mid-ebb	WWA2	-	-	-	13.5	17.0	Baseline Check
25-Aug	Mid-ebb	WWA3	-	-	-	13.2	15.2	Baseline Check
25-Aug	Mid-ebb	WWFCZ1	-	-	-	13.2	14.2	Baseline Check
25-Aug	Mid-ebb	WWFCZ2	-	-	-	12.3	15.8	Baseline Check
25-Aug	Mid-flood	WWA3	-	-	-	12.5	19.0	Baseline Check

No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at monitoring stations during the reporting period. All the exceedances were marginal to Baseline Check Criteria. During the reporting period, formwork, reinforcement works and concreting were conducted at Seawall A and B. Hence, the exceedances were unlikely due to the construction works of the Project.

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

6.5 Notification of Summons and Successful Prosecution

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

6.6 Environmental Licences

A summary of the valid environmental licences is given in **Table 6-4**. There was no environmental licence granted during the reporting period.

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

Type of Licence	Reference No.	Valid from	Valid to
Environmental Permit	EP-219/2005	20 Jun 2005	Not applicable
Registration of Chemical Waste Producer	5111-336-C2869-49	16 Feb 2006	Not applicable
Water Discharge Licence	EP760/336/011348 I	31 Mar 2006	31 Mar 2011
Delivery of C&D Materials to PFRF at Tuen Mun Area 38 by Barge	Application No.: CEDD00087 Billing Account No.: 5005407	12 May 2006	15 Aug 2006
Construction Noise Permit	GW-RW0326-06	9 June 2006	8 December 2006
Construction Noise Permit	GW-RW0349-06	23 June 2006	22 December 2006

7 Conclusions

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

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

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

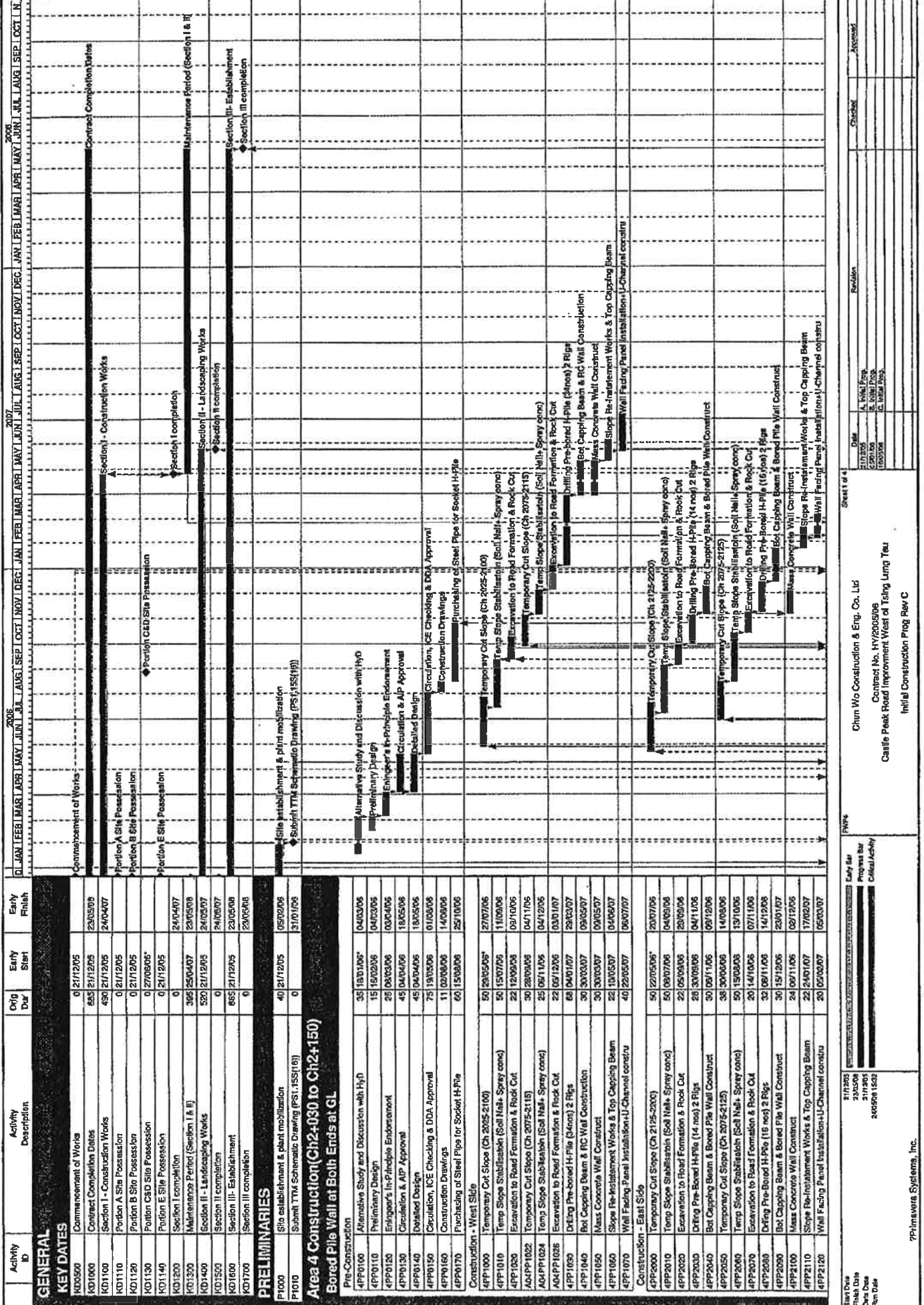
Weekly environmental site audit was carried out during the reporting month. The major environmental concerns were related to air quality, water quality and waste management.

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

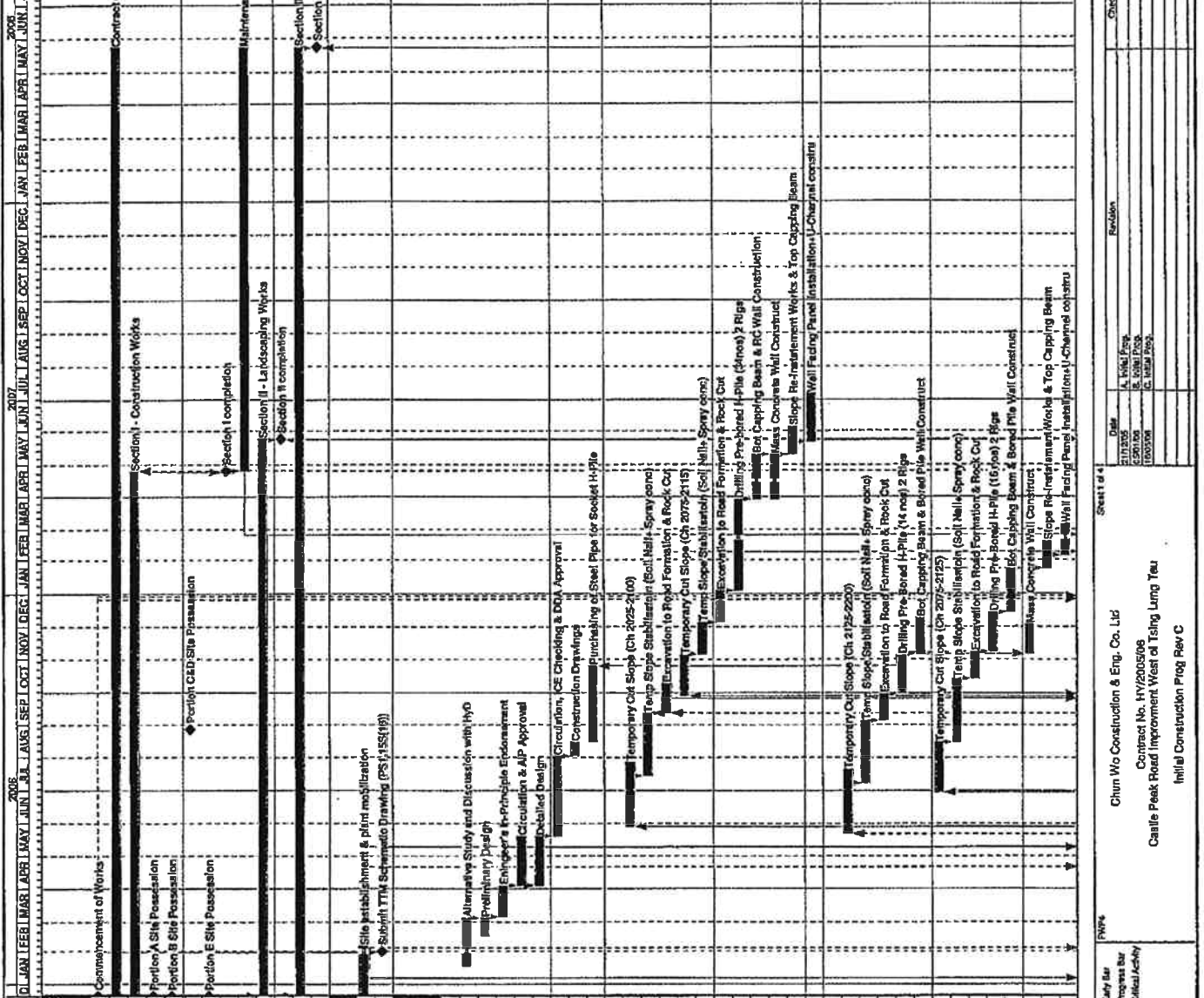
8 References

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

Appendix A
**Construction
programme**



2006
 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC 2007
 2007
 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC 2008



Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
GENERAL KEY DATES				
K03500	Commencement of Works	0	21/12/05	23/05/06
K01000	Contract Completion Dates	665	21/12/05	24/04/07
K01100	Section I - Construction Works	490	21/12/05	24/04/07
K01110	Portion A Site Possession	0	21/12/05	21/12/05
K01120	Portion B Site Possession	0	21/12/05	21/12/05
K01130	Portion C&D Site Possession	0	27/06/06	27/06/06
K01140	Portion E Site Possession	0	21/12/05	21/12/05
K01200	Section I completion	0	24/04/07	24/04/07
K01300	Maintenance Period (Section I & II)	365	25/04/07	23/05/08
K01400	Section II - Landscaping Works	520	21/12/05	24/02/07
K01500	Section II completion	0	24/02/07	24/02/07
K01600	Section III - Establishment	665	21/12/05	23/05/08
K01700	Section III completion	0	23/05/08	23/05/08
PRELIMINARIES				
P1000	Site establishment & plant mobilization	40	21/12/05	05/02/06
P1010	Submit TTM Schematic Drawing (PS:1551161)	0		31/10/06
Area 4 Construction (Ch2+030 to Ch2+150)				
Bored Pile Wall at Both Ends at GL				
Pre-Construction				
4PP0100	Alternative Study and Discussion with Hyd	35	19/01/06*	04/03/06
4PP0110	Preliminary Design	15	15/02/06	04/03/06
4PP0120	Engineer's In-Principle Endorsement	25	08/03/06	03/04/06
4PP0130	Circulation & AP Approval	45	04/04/06	18/05/06
4PP0140	Detailed Design	45	04/04/06	18/05/06
4PP0150	Circulation, ICE Checking & DDA Approval	75	19/05/06	01/08/06
4PP0160	Construction Drawings	11	02/08/06	14/08/06
4PP0170	Purchasing of Steel Piles for Socket H-Pile	60	15/08/06	25/10/06
Construction - West Side				
4PP1000	Temporary Cut Slope (Ch 2025-2100)	50	20/05/06*	27/07/06
4PP1010	Temp Slope Stabilisation (Soil Nails - Spray cone)	50	15/07/06	11/09/06
4PP1020	Excavation to Road Formation & Rock Cut	22	12/09/06	09/10/06
4PP1030	Temporary Cut Slope (Ch 2075-2115)	30	20/09/06	04/11/06
4PP1040	Temp Slope Stabilisation (Soil Nails - Spray cone)	25	05/11/06	04/12/06
4PP1050	Excavation to Road Formation & Rock Cut	22	05/12/06	03/01/07
4PP1060	Drilling Pre-bored H-Pile (6nos) 2 Rigs	68	04/01/07	29/03/07
4PP1070	Bot Capping Beam & RC Wall Construction	30	30/03/07	09/05/07
4PP1080	Mass Concrete Wall Construct	30	30/03/07	09/05/07
4PP1090	Slope Re-Instalment Works & Top Capping Beam	22	10/05/07	04/06/07
4PP1100	Wall Facing Panel Installation-U-Channel constr	40	22/05/07	06/07/07
Construction - East Side				
4PP2000	Temporary Cut Slope (Ch 2125-2200)	50	22/05/06*	20/07/06
4PP2010	Temp Slope Stabilisation (Soil Nails - Spray cone)	50	09/07/06	04/09/06
4PP2020	Excavation to Road Formation & Rock Cut	22	05/09/06	20/09/06
4PP2030	Drilling Pre-Bored H-Pile (14 nos) 2 Rigs	26	30/09/06	04/11/06
4PP2040	Bot Capping Beam & Bored Pile Wall Construct	30	09/11/06	09/12/06
4PP2050	Temporary Cut Slope (Ch 2075-2125)	38	30/09/06	14/08/06
4PP2060	Temp Slope Stabilisation (Soil Nails - Spray cone)	50	15/09/06	11/10/06
4PP2070	Excavation to Road Formation & Rock Cut	20	14/10/06	07/11/06
4PP2080	Drilling Pre-Bored H-Pile (16 nos) 2 Rigs	32	09/11/06	14/12/06
4PP2090	Bot Capping Beam & Bored Pile Wall Construct	30	15/12/06	23/01/07
4PP2100	Mass Concrete Wall Construct	24	09/11/06	02/12/06
4PP2110	Slope Re-Instalment Works & Top Capping Beam	22	24/01/07	17/02/07
4PP2120	Wall Facing Panel Installation-U-Channel constr	20	05/02/07	05/03/07

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish
50F2200	Construct cascades & pipe	40	07/02/07	20/03/07
Area 1 Construction (Ch1+600 to Ch1+705)				
5RW0500	WB: Clear existing road surface	12	27/12/06	10/01/07
5RW1500	Construct WB carriageway road surfacing	6	11/01/07	17/01/07
5RW2000	Divert the original road to the new road (WB)	1	18/01/07	18/01/07
5RW2500	EB: clear existing road surface	12	19/01/07	01/02/07
5RW3500	Construct EB carriageway road surfacing	6	02/02/07	08/02/07
5RW3510	TTM Staging Preparation	19	22/11/06	13/12/06
5RW3520	TMLG Meeting	1	14/12/06	14/12/06
5RW3530	RMC/Roadwork Advice	10	15/12/06	29/12/06
Area 6 Construction (Ch2+300 to Ch2+400)				
6RW0500	WB: clear existing road surface	14	19/12/06	16/01/07
6RW1500	Construct WB carriageway road surfacing	6	17/01/07	23/01/07
6RW2000	Divert the original road to the new road (WB)	1	24/01/07	24/01/07
6RW2500	EB: Clear existing road surface	12	25/01/07	07/02/07
6RW3500	Construct EB carriageway road surfacing	6	09/02/07	14/02/07
6RW3510	TTM Staging Preparation	19	22/11/06	19/12/06
6RW3520	TMLG Meeting	1	21/12/06	21/12/06
6RW3530	RMC/Roadwork Advice	10	22/12/06	05/01/07
Area 2 Construction (Ch1+705 to Ch1+825)				
1RW0500	WB: Excavation & demolish existing road surface	12	21/04/06	06/05/06
1RW1000	Construct WB, EB: UG drain, wearmath, etc	90	28/04/06	19/06/06
1RW1500	Construct WB, EB Kerb/Barriers/road surfacing	18	15/06/06	05/09/06
1RW2000	Divert the original road to the new road (WB)	1	05/09/06	06/09/06
1RW2010	Construct WB, EB Beam Barrier & Footpath	24	07/09/06	09/10/06
1RW2500	Slip Rd: Excav & demolish road surface	12	07/09/06	20/09/06
1RW3000	Slip Rd: UG drainage & utilities	82	15/09/06	23/12/06
1RW3500	Construct Slip Rd surfacing work	18	27/12/06	17/01/07
A01RW0500	Construction of Car Park	50	18/01/07	22/02/07
1RW3510	TTM Staging Preparation	19	15/07/06	05/08/06
1RW3520	TMLG Meeting	1	07/08/06	07/08/06
1RW3530	RMC/Roadwork Advice	10	08/08/06	18/08/06
Slope Remedial Works				
6SW0500	Remedial works to Slope No. 6SW-D/C170	57	22/11/06	31/01/07
6SW5000	Remedial works to Slope No. 6SW-D/FR286	70	18/04/06	08/07/08
6SW5500	Remedial works to Slope No. 6SW-D/FR298	90	13/06/06	26/08/06
6SW6000	Remedial works to Slope No. 6SW-D/FR83	75	22/08/06	21/11/06
6SW6500	Remedial works to Slope No. 6SW-D/FR82	92	23/12/06	23/04/07
6SW7000	Remedial works to Slope No. 6SW-D/R1	62	13/12/06	03/03/07
Section II - Landscaping Works				
ACLW1000	Tree Transplant	100	05/05/06	04/07/08
LW1000	Landscaping works	50	24/02/07	24/05/07
Section III - Establishment Period				
EP1000	Establishment works	365	25/05/07	23/05/08

2006
 01 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
 2007
 01 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
 2008
 01 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

2006
 01 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
 2007
 01 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
 2008
 01 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

Chun Wo Construction & Eng. Co. Ltd
 Contract No. HW2005/06
 Castle Peak Road Improvement West of Tsing Lung Tau
 Initial Construction Prog Rev C

Sheet 4 of 4

Checked	Approved

21/10/06
 20/02/06
 21/10/06
 24/05/06 15:32

7Primavera Systems, Inc.

Appendix B

**Monitoring schedule for
August and September
2006**

In accordance with the Project Profile "Castle Peak Road Improvement between Area 2 and Ka Loon Tsuen, Tsuen Wan, Remaining Works Contract, Construction of Reclamation West of Tsing Lung Tau", all dredged material will be transported by trucks to Public Fill Reception Facility (PFRF) at Tuen Mun Area 38 for ultimate reuse by alternative projects. As the depth of marine water near the reclamation site is found to be sufficient for barges to manoeuvre, the CT proposed to deliver the dredged material by barge to the PFRF. It will reduce the double handling of dredged material to the seashore and then to trucks by backhoe. EPD agreed with the CT's proposal on 18 May 2006 via e-mail. The CT commenced to transport the dredged material by barge on 24 May 2006. During the reporting period, no C&D materials were transported to PFRF by barge.

6.3 Complaint Record

There was no environmental complaint received in August 2006.

6.4 Exceedance

There were exceedances of Tby and SS levels for marine water quality in August 2006 when compared with A/L Levels and baseline check criteria. After ET's investigation, all exceedances were unlikely due to the construction activities of the Project. These exceedances are summarised in Table 6.3.

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

Date	Tide	Location	Exceedances of monitoring data					
			Tby (NTU)			SS (mg/L)		
			Control Station	Impact Station	Exceedance of	Control Station	Impact Station	Exceedance of
9-Aug	Mid-ebb	VWA2	5.3	7.6	Limit Level	-	-	-
11-Aug	Mid-ebb	VWA3	-	-	-	14.0	15.2	Baseline Check
11-Aug	Mid-flood	VWA3	-	-	-	7.4	17.7	Baseline Check
18-Aug	Mid-ebb	VVFCZ1	-	-	-	7.7	17.8	Baseline Check
18-Aug	Mid-flood	VWA2	-	-	-	8.7	23.2	Baseline Check
23-Aug	Mid-ebb	VWA1	-	-	-	12.2	14.3	Baseline Check
23-Aug	Mid-ebb	VWA2	-	-	-	10.8	16.0	Baseline Check
23-Aug	Mid-ebb	VWA3	-	-	-	10.8	15.2	Baseline Check
23-Aug	Mid-ebb	VVFCZ1	-	-	-	12.0	14.3	Baseline Check
23-Aug	Mid-ebb	VVFCZ2	-	-	-	12.5	15.0	Baseline Check
25-Aug	Mid-ebb	VWA1	-	-	-	12.0	15.7	Baseline Check
25-Aug	Mid-ebb	VWA2	-	-	-	13.5	17.0	Baseline Check
25-Aug	Mid-ebb	VWA3	-	-	-	13.2	15.2	Baseline Check
25-Aug	Mid-ebb	VVFCZ1	-	-	-	13.2	14.2	Baseline Check
25-Aug	Mid-ebb	VVFCZ2	-	-	-	12.3	15.8	Baseline Check
25-Aug	Mid-flood	VWA3	-	-	-	12.5	19.0	Baseline Check

Environmental Monitoring and Audit Schedule - August 2006

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

Aug-2006						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2	3 Site Inspection	4	5
6	7	8	9 MW	10 Site Inspection	11 MW	12
13	14 MW	15	16 MW	17 Site Inspection	18 MW	19
20	21 MW	22	23 MW	24 Site Inspection	25 MW	26
27	28 MW	29	30 MW	31 Site Inspection	MW	
			MW			

Tentative Environmental Monitoring and Audit Schedule - September 2006

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

Sep-2006						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5	6	7 Site Inspection	8 MW	9
10	11 MW	12	13 MW	14 Site Inspection	15 MW	16
17	18	19 MW	20	21 MW	22	23 MW
24	25 MW	26	27 MW	28 Site Inspection	29 MW	30
	MW		MW		MW	

Appendix C

**Calibration certificates
of marine water
monitoring equipment**



CALIBRATION REPORT

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

Report No. : CR 000074
Page No. : 1 of 5
Issue Date : 04/08/2006

Received Date : 01/08/2006
Approved Signatory : Grace Ting
Remarks :

Completion Date : 02/08/2006

Calibration Results:

Item : YSI Model 85-10 FT Handheld Salinity, Conductivity & Temperature Instrument
Serial No. : 02D1076 AB
Calibration Method : APHA 18e 2520 A & B
Date of Calibration : 01/08/2006
Results: :

Salinity

Expected Reading (ppt)	Recorded Reading (ppt)
0	0
7.4	7.3
15	14.4
35	33.8
39.3	37.9

Approval Signatory:



CALIBRATION REPORT

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

Report No. : CR 000074
Page No. : 2 of 5
Issue Date : 04/08/2006

Received Date : 01/08/2006
Approved Signatory : Grace Ting
Remarks :

Completion Date : 02/08/2006

Calibration Results:

Item : YSI Model 85-10 FT Handheld Salinity, Conductivity & Temperature Instrument
Serial No. : 02D1076 AB
Calibration Method : In house method
Date of Calibration : 01/08/2006
Results: :

Temperature

Expected Reading (°C)	Recorded Reading (°C)
10.0	10.1
20.0	20.4
30.0	30.4
40.0	40.3

Approval Signatory:



CALIBRATION REPORT

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

Report No. : CR 000074
Page No. : 3 of 5
Issue Date : 04/08/2006

Received Date : 01/08/2006
Approved Signatory : Grace Ting
Remarks :

Completion Date : 02/08/2006

Calibration Results:

Item : YSI Model 85-10 FT Handheld Salinity, Conductivity & Temperature Instrument
Serial No. : 02D1076 AB
Calibration Method : APHA 18e 4500-O A, B, C & D
Date of Calibration : 01/08/2006
Results: :

Dissolved Oxygen

Expected Reading (mg/L)	Recorded Reading (mg/L)
3.75	3.68
4.80	4.80
5.75	5.69
6.80	6.88
7.90	7.90
9.00	8.92

Approval Signatory:



CALIBRATION REPORT

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

Report No. : CR 000074
Page No. : 4 of 5
Issue Date : 04/08/2006

Received Date : 01/08/2006
Approved Signatory : Grace Ting
Remarks :

Completion Date : 02/08/2006

Calibration Results:

Item : HACH 2100P Turbidimeter
Serial No. : 011100024354
Calibration Method : APHA 18e 2130 B
Date of Calibration : 01/08/2006
Results: :

Turbidity

Expected Reading (NTU)	Recorded Reading (NTU)
0	0.21
2	2.20
4	4.11
16	15.5
40	38.8
80	77.1

Approval Signatory:



CALIBRATION REPORT

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

Report No. : CR 000074
Page No. : 5 of 5
Issue Date : 04/08/2006

Received Date : 01/08/2006
Approved Signatory : Grace Ting
Remarks :

Completion Date : 02/08/2006

Calibration Results:

Item : HANNA instrument HI 98128 membrane pH meter
Serial No. : 1377140
Calibration Method : In house method
Date of Calibration : 01/08/2006
Results: :

pH

Expected Reading (pH unit)	Recorded Reading (pH unit)
4.00	4.18
6.86	7.10
10.0	10.2

Approval Signatory:

Appendix D

**Marine water quality
monitoring results**

West Contract No.HY/2005/06Castle Peak Road Improvement - West of Tsing Lung Tau
Water Quality Impact Monitoring - August 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
1	WWA1	S	MID-EBB	2-Aug-06	9:22	7.90	26.5	5.95	5.86	5.88	89.9	86.6	8.2	21.5	2.5	2.3	2.3	4.0	4.2
2	WWA1	M	MID-EBB	2-Aug-06			26.2	5.81	5.88		90.6	89.1	8.2	21.4	2.1	2.3		4.0	
3	WWA1	B	MID-EBB	2-Aug-06			25.9	5.60	5.51		88.3	85.8	8.2	22.3	2.3	2.4		4.5	
4	WWA2	S	MID-EBB	2-Aug-06	9:30	9.70	26.0	5.86	5.84	5.79	91.3	89.0	8.2	21.5	2.1	2.0	2.1	4.5	6.3
5	WWA2	M	MID-EBB	2-Aug-06			26.1	5.76	5.70		89.2	86.7	8.2	22.2	2.2	2.3		6.0	
6	WWA2	B	MID-EBB	2-Aug-06			26.3	5.58	5.46		88.1	86.2	8.2	21.6	2.2	2.2		8.5	
7	WWA3	S	MID-EBB	2-Aug-06	9:59	7.16	26.4	5.96	5.89	5.82	90.9	87.4	8.2	17.1	1.7	3.0	2.2	4.5	4.4
8	WWA3	M	MID-EBB	2-Aug-06			26.2	5.74	5.68		85.5	83.4	8.2	20.8	2.0	2.5		5.0	
9	WWA3	B	MID-EBB	2-Aug-06			25.9	5.58	5.49		85.9	84.1	8.2	23.1	1.9	2.3		3.8	
10	WRA1	S	MID-EBB	2-Aug-06	9:11	28.50	26.3	5.90	5.82	5.73	87.9	85.8	8.2	21.6	1.5	1.7	2.1	3.5	6.2
11	WRA1	M	MID-EBB	2-Aug-06			25.5	5.62	5.58		87.6	84.0	8.2	26.0	2.1	2.1		5.0	
12	WRA1	B	MID-EBB	2-Aug-06			24.9	5.48	5.41		85.7	81.7	8.2	28.9	2.4	2.7		10.0	
13	WRA2	S	MID-EBB	2-Aug-06	9:00	21.70	26.2	5.82	5.87	5.81	89.3	87.3	8.2	21.6	1.9	2.1	2.1	6.0	6.0
14	WRA2	M	MID-EBB	2-Aug-06			25.5	5.80	5.74		86.9	83.0	8.2	24.4	2.2	2.0		8.0	
15	WRA2	B	MID-EBB	2-Aug-06			25.3	5.60	5.54		86.0	83.3	8.2	25.0	2.1	2.0		4.0	
16	WRA3	S	MID-EBB	2-Aug-06	8:50	27.90	26.3	5.95	5.86	5.82	88.1	86.2	8.2	21.8	1.7	1.6	2.1	4.5	4.5
17	WRA3	M	MID-EBB	2-Aug-06			25.6	5.79	5.66		88.3	84.4	8.2	26.2	2.1	2.2		4.5	
18	WRA3	B	MID-EBB	2-Aug-06			25.1	5.50	5.43		88.5	84.5	8.2	28.0	2.3	2.3		4.5	
19	WWFCZ1	S	MID-EBB	2-Aug-06	8:13	31.30	26.3	5.88	5.93	5.86	90.3	86.9	8.2	21.9	1.6	1.9	2.1	3.0	4.4
20	WWFCZ1	M	MID-EBB	2-Aug-06			25.9	5.80	5.71		91.3	87.4	8.2	24.2	2.2	2.1		4.3	
21	WWFCZ1	B	MID-EBB	2-Aug-06			25.0	5.50	5.44		85.2	81.3	8.2	28.6	2.3	2.3		6.0	
22	WWFCZ2	S	MID-EBB	2-Aug-06	8:26	34.50	26.3	5.89	5.80	5.74	96.3	92.0	8.2	21.8	1.7	1.7	1.8	3.3	4.4
23	WWFCZ2	M	MID-EBB	2-Aug-06			25.4	5.68	5.60		93.1	89.1	8.2	26.5	1.6	1.6		4.5	
24	WWFCZ2	B	MID-EBB	2-Aug-06			25.0	5.49	5.40		85.0	80.9	8.2	28.0	1.9	2.0		5.5	
25	WFCZR1	S	MID-EBB	2-Aug-06	8:00	40.10	26.9	6.00	5.88	5.77	89.0	86.9	8.2	21.5	1.7	1.9	1.9	5.5	5.0
26	WFCZR1	M	MID-EBB	2-Aug-06			25.7	5.67	5.54		86.1	82.8	8.2	26.8	2.0	1.9		6.0	
27	WFCZR1	B	MID-EBB	2-Aug-06			25.2	5.52	5.46		85.8	81.9	8.2	27.9	1.9	2.1		3.5	
28	WFCZR2	S	MID-EBB	2-Aug-06	8:38	41.60	26.0	5.96	5.91	5.84	94.8	91.7	8.2	21.5	1.8	1.6	1.9	4.0	3.8
29	WFCZR2	M	MID-EBB	2-Aug-06			25.7	5.78	5.69		89.8	86.4	8.2	24.8	1.9	2.1		3.5	
30	WFCZR2	B	MID-EBB	2-Aug-06			25.4	5.53	5.48		87.4	83.4	8.2	27.0	2.2	2.0		4.0	
31	WWA1	S	MID-FLOOD	2-Aug-06	13:50	8.30	25.4	5.86	5.80	5.78	90.2	87.6	8.2	20.2	2.6	2.6	2.8	3.3	3.9
32	WWA1	M	MID-FLOOD	2-Aug-06			25.4	5.74	5.68		88.6	84.9	8.2	26.1	2.2	3.1		3.5	
33	WWA1	B	MID-FLOOD	2-Aug-06			25.2	5.54	5.48		91.3	88.0	8.2	28.3	3.3	3.2		5.0	
34	WWA2	S	MID-FLOOD	2-Aug-06	14:00	11.70	25.5	5.90	5.86	5.81	92.5	89.5	8.2	25.9	2.3	2.0	2.4	5.5	5.3
35	WWA2	M	MID-FLOOD	2-Aug-06			25.4	5.79	5.70		89.1	86.7	8.2	26.0	2.1	2.1		6.5	
36	WWA2	B	MID-FLOOD	2-Aug-06			25.3	5.63	5.51		89.1	86.9	8.2	28.0	3.1	3.2		4.0	
37	WWA3	S	MID-FLOOD	2-Aug-06	14:09	8.20	25.3	5.84	5.79	5.69	90.0	86.9	8.2	25.9	2.0	2.1	2.6	4.0	5.0
38	WWA3	M	MID-FLOOD	2-Aug-06			25.3	5.60	5.53		90.0	87.3	8.2	25.8	2.3	2.7		5.5	
39	WWA3	B	MID-FLOOD	2-Aug-06			25.2	5.50	5.41		85.1	82.1	8.2	26.1	3.2	3.2		5.5	
40	WRA1	S	MID-FLOOD	2-Aug-06	13:40	32.50	25.3	5.81	5.84	5.77	87.3	85.1	8.2	25.8	2.1	2.1	2.1	6.0	4.5
41	WRA1	M	MID-FLOOD	2-Aug-06			25.1	5.70	5.64		92.4	88.5	8.2	26.9	2.3	2.0		3.5	
42	WRA1	B	MID-FLOOD	2-Aug-06			25.1	5.57	5.49		84.1	80.4	8.2	27.3	2.5	2.0		4.0	
43	WRA2	S	MID-FLOOD	2-Aug-06	13:28	24.70	25.4	5.94	5.88	5.82	92.5	89.1	8.1	25.2	2.1	1.7	2.1	9.0	4.5
44	WRA2	M	MID-FLOOD	2-Aug-06			25.3	5.76	5.68		91.1	88.0	8.1	27.2	2.1	1.9		8.5	

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West Contract No.HY/2005/06Castle Peak Road Improvement - West of Tsing Lung Tau
Water Quality Impact Monitoring - August 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
45	WRA2	B	MID-FLOOD	2-Aug-06	13:17	31.30	24.6	5.54	5.47	5.51	83.4	80.6	8.1	29.3	1.8	1.6	1.9	7.0	8.2
46	WRA3	S	MID-FLOOD	2-Aug-06			25.4	5.88	5.74		90.6	86.6	8.0	26.0	2.0	1.9		5.0	
47	WRA3	M	MID-FLOOD	2-Aug-06			25.3	5.65	5.59		93.2	89.6	8.0	26.7	2.1	2.2		10.0	
48	WRA3	B	MID-FLOOD	2-Aug-06	12:43	32.70	25.2	5.50	5.43	5.47	90.2	87.1	8.1	27.1	2.6	2.8	2.3	4.5	6.5
49	WWFCZ1	S	MID-FLOOD	2-Aug-06			25.4	5.84	5.76		91.0	87.4	8.0	25.5	1.9	1.7		3.5	
50	WWFCZ1	M	MID-FLOOD	2-Aug-06			25.3	5.70	5.62		86.0	83.4	8.0	26.7	2.2	2.9		5.5	
51	WWFCZ1	B	MID-FLOOD	2-Aug-06	12:55	36.90	25.2	5.53	5.46	5.50	90.9	86.4	8.0	23.8	3.1	3.2	2.5	7.0	5.3
52	WWFCZ2	S	MID-FLOOD	2-Aug-06			25.4	5.93	5.87		93.9	89.7	8.1	25.9	1.9	1.8		7.5	
53	WWFCZ2	M	MID-FLOOD	2-Aug-06			25.0	5.73	5.68		90.7	86.9	8.1	27.8	1.7	1.7		4.5	
54	WWFCZ2	B	MID-FLOOD	2-Aug-06	12:30	40.80	24.7	5.51	5.45	5.48	87.0	83.4	8.1	28.9	2.0	2.1	1.9	5.5	5.8
55	WFCZR1	S	MID-FLOOD	2-Aug-06			26.0	5.94	5.86		86.9	83.6	8.2	21.6	1.9	1.9		7.0	
56	WFCZR1	M	MID-FLOOD	2-Aug-06			24.9	5.74	5.68		84.1	80.6	8.2	28.1	2.2	2.4		7.5	
57	WFCZR1	B	MID-FLOOD	2-Aug-06	13:07	41.60	24.4	5.54	5.47	5.51	88.0	82.6	8.2	30.1	2.0	1.8	2.0	8.5	7.7
58	WFCZR2	S	MID-FLOOD	2-Aug-06			25.2	5.89	5.80		98.7	94.0	8.2	26.3	1.6	1.6		8.5	
59	WFCZR2	M	MID-FLOOD	2-Aug-06			25.4	5.70	5.64		90.8	88.1	8.2	26.7	2.0	2.2		7.0	
60	WFCZR2	B	MID-FLOOD	2-Aug-06	10:52	6.80	24.9	5.50	5.43	5.47	88.9	86.0	8.2	28.1	2.2	2.9	2.1	7.0	7.5
61	WWA1	S	MID-EBB	4-Aug-06			25.8	6.02	5.92		96.4	94.3	8.2	22.7	2.0	2.1		4.0	
62	WWA1	M	MID-EBB	4-Aug-06			25.7	5.84	5.78		91.7	89.1	8.2	23.1	1.7	1.8		5.5	
63	WWA1	B	MID-EBB	4-Aug-06	11:02	10.00	25.6	5.83	5.74	5.79	91.2	89.1	8.2	25.3	2.0	2.0	1.9	4.0	4.5
64	WWA2	S	MID-EBB	4-Aug-06			25.8	5.95	5.87		94.7	92.6	8.2	22.6	2.1	2.1		2.5	
65	WWA2	M	MID-EBB	4-Aug-06			25.7	5.97	5.94		92.1	90.5	8.2	24.0	3.6	3.5		4.0	
66	WWA2	B	MID-EBB	4-Aug-06	11:12	7.00	25.7	5.86	5.83	5.85	90.2	86.4	8.2	24.2	3.1	3.2	2.9	6.0	4.2
67	WWA3	S	MID-EBB	4-Aug-06			25.6	5.93	5.88		94.2	90.2	8.2	22.8	2.3	2.5		2.8	
68	WWA3	M	MID-EBB	4-Aug-06			25.7	5.70	5.61		87.6	85.1	8.2	23.6	2.9	2.7		3.3	
69	WWA3	B	MID-EBB	4-Aug-06	10:41	32.50	25.7	5.79	5.80	5.80	87.9	86.4	8.2	22.3	2.9	2.7	2.6	5.5	3.8
70	WRA1	S	MID-EBB	4-Aug-06			25.7	5.95	5.90		95.1	93.0	8.2	22.6	1.9	1.8		6.8	
71	WRA1	M	MID-EBB	4-Aug-06			25.8	5.84	5.79		92.8	90.7	8.2	22.4	2.3	2.3		4.5	
72	WRA1	B	MID-EBB	4-Aug-06	10:30	24.00	25.4	5.58	5.49	5.54	87.8	85.8	8.2	26.4	1.3	1.4	1.8	4.5	5.3
73	WRA2	S	MID-EBB	4-Aug-06			25.6	5.93	5.87		94.2	91.9	8.2	22.8	3.3	3.5		9.0	
74	WRA2	M	MID-EBB	4-Aug-06			25.4	5.79	5.72		90.7	88.5	8.2	25.7	1.5	1.8		9.0	
75	WRA2	B	MID-EBB	4-Aug-06	10:20	23.80	25.3	5.48	5.42	5.45	88.3	83.5	8.2	26.9	1.5	1.6	2.2	9.5	9.2
76	WRA3	S	MID-EBB	4-Aug-06			26.1	5.92	5.85		94.7	92.0	8.2	22.7	2.3	2.6		18.0	
77	WRA3	M	MID-EBB	4-Aug-06			25.4	5.82	5.79		88.9	85.1	8.2	26.6	1.8	1.9		10.0	
78	WRA3	B	MID-EBB	4-Aug-06	9:43	30.70</													

West Contract No.HY/2005/06Castle Peak Road Improvement - West of Tsing Lung Tau
Water Quality Impact Monitoring - August 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
89	WFCZR2	M	MID-EBB	4-Aug-06	10:09	42.00	25.5	5.77	5.75	5.82	90.6	89.1	8.2	25.8	2.3	2.2	2.3	9.0	
90	WFCZR2	B	MID-EBB	4-Aug-06			25.1	5.50	5.42	5.46	87.5	84.6	8.2	27.5	2.2	2.2	2.3	16.5	10.0
91	WWA1	S	MID-FLOOD	4-Aug-06			26.2	6.15	6.06		93.1	91.6	8.2	22.9	9.3	8.5		23.5	
92	WWA1	M	MID-FLOOD	4-Aug-06	15:19	7.90	25.8	5.80	5.77	5.95	89.4	87.9	8.2	25.2	3.7	3.2		6.0	
93	WWA1	B	MID-FLOOD	4-Aug-06			25.7	5.75	5.71	5.73	89.3	87.9	8.2	24.9	6.1	5.8	6.1	9.5	13.7
94	WWA2	S	MID-FLOOD	4-Aug-06			26.6	6.13	6.07		93.1	91.9	8.2	21.9	2.5	3.2		6.0	
95	WWA2	M	MID-FLOOD	4-Aug-06	15:10	8.70	26.1	5.84	5.91	6.01	90.7	89.4	8.2	24.7	2.5	2.4		8.0	
96	WWA2	B	MID-FLOOD	4-Aug-06			25.7	5.54	5.46	5.50	85.4	82.4	8.2	25.6	2.8	2.4	2.6	5.0	6.3
97	WWA3	S	MID-FLOOD	4-Aug-06			27.6	6.07	5.97		88.5	88.1	6.1	16.6	1.9	1.7		5.5	
98	WWA3	M	MID-FLOOD	4-Aug-06	15:00	7.80	26.5	6.03	5.97	6.01	89.6	88.3	8.1	21.5	2.5	2.6		6.5	
99	WWA3	B	MID-FLOOD	4-Aug-06			26.3	5.62	5.55	5.59	89.2	87.6	8.1	23.7	2.8	2.8	2.4	7.0	6.3
100	WRA1	S	MID-FLOOD	4-Aug-06			26.1	5.89	5.82		93.9	91.9	8.2	22.9	1.9	2.1		6.5	
101	WRA1	M	MID-FLOOD	4-Aug-06	15:23	33.20	25.6	5.78	5.71	5.80	90.3	88.6	8.2	25.6	1.4	1.5		5.0	
102	WRA1	B	MID-FLOOD	4-Aug-06			25.4	5.60	5.49	5.55	87.5	84.6	8.2	27.2	3.5	3.5	2.3	8.0	6.5
103	WRA2	S	MID-FLOOD	4-Aug-06			26.0	5.84	5.89		93.2	90.7	8.2	23.9	1.6	2.1		6.0	
104	WRA2	M	MID-FLOOD	4-Aug-06	15:35	28.10	25.5	5.76	5.66	5.81	88.5	86.6	8.2	26.7	3.7	3.6		5.0	
105	WRA2	B	MID-FLOOD	4-Aug-06			25.5	5.50	5.44	5.47	89.8	86.9	8.2	27.3	4.0	4.1	3.2	7.5	6.2
106	WRA3	S	MID-FLOOD	4-Aug-06			25.9	5.90	5.81		92.1	90.4	8.2	23.9	1.4	1.7		5.6	
107	WRA3	M	MID-FLOOD	4-Aug-06	15:47	26.70	25.4	5.71	5.65	5.77	85.9	84.0	8.2	27.3	5.2	5.6		8.5	
108	WRA3	B	MID-FLOOD	4-Aug-06			25.4	5.46	5.42	5.45	87.4	84.9	8.2	27.3	5.2	5.5	4.1	12.0	8.8
109	WWFCZ1	S	MID-FLOOD	4-Aug-06			25.9	5.90	5.84		93.3	90.6	8.3	23.5	1.6	1.7		3.3	
110	WWFCZ1	M	MID-FLOOD	4-Aug-06	16:11	36.90	25.5	5.62	5.56	5.74	89.5	85.6	8.3	26.7	3.3	3.4		16.0	
111	WWFCZ1	B	MID-FLOOD	4-Aug-06			25.3	5.50	5.47	5.49	86.3	84.6	8.3	27.3	6.9	5.3	3.7	10.0	9.8
112	WWFCZ2	S	MID-FLOOD	4-Aug-06			25.6	5.83	5.78		90.9	88.9	8.2	25.0	2.0	2.4		14.0	
113	WWFCZ2	M	MID-FLOOD	4-Aug-06	16:25	37.40	25.4	5.70	5.62	5.73	88.6	86.8	8.2	27.1	4.1	3.9		9.0	
114	WWFCZ2	B	MID-FLOOD	4-Aug-06			25.4	5.56	5.53	5.55	85.9	83.5	8.2	27.5	4.8	4.7	3.6	6.0	9.7
115	WFCZR1	S	MID-FLOOD	4-Aug-06			25.6	5.82	5.76		92.3	89.7	8.3	26.6	3.2	3.5		4.8	
116	WFCZR1	M	MID-FLOOD	4-Aug-06	16:38	41.80	25.3	5.82	5.56	5.69	85.9	83.3	8.3	26.3	5.3	5.2		13.0	
117	WFCZR1	B	MID-FLOOD	4-Aug-06			25.1	5.52	5.46	5.49	84.4	82.0	8.3	28.6	7.2	7.1	5.3	16.5	11.4
118	WFCZR2	S	MID-FLOOD	4-Aug-06			25.9	5.96	5.90		95.8	92.4	8.2	24.1	1.9	1.6		3.8	
119	WFCZR2	M	MID-FLOOD	4-Aug-06	15:59	42.70	25.4	5.80	5.75	5.85	85.4	83.6	8.2	27.1	4.5	4.3		13.0	
120	WFCZR2	B	MID-FLOOD	4-Aug-06			25.3	5.50	5.41	5.46	86.7	84.2	8.2	27.7	6.8	6.3	4.3	9.5	8.8
121	WWA1	S	MID-EBB	7-Aug-06			27.3	5.91	5.86		90.9	87.1	8.1	17.9	2.7	2.8		4.0	
122	WWA1	M	MID-EBB	7-Aug-06	11:19	6.60	26.7	5.79	5.73	5.82	83.6	81.5	8.1	21.9	3.5	3.7		9.0	
123	WWA1	B	MID-EBB	7-Aug-06			26.6	5.60	5.51	5.56	87.9	85.5	8.1	22.5	4.2	3.9	3.5	9.0	7.3
124	WWA2	S	MID-EBB	7-Aug-06			27.2	5.88	5.84		91.2	89.6	8.1	19.2	2.5	3.0		5.5	
125	WWA2	M	MID-EBB	7-Aug-06	11:10	9.60	27.2	5.73	5.65	5.78	85.1	82.6	8.1	19.5	2.4	3.1		3.0	
126	WWA2	B	MID-EBB	7-Aug-06			27.1	5.56	5.52	5.54	88.4	85.7	8.1	19.8	2.4	2.5	2.7	4.0	4.2
127	WWA3	S	MID-EBB	7-Aug-06			27.6	5.89	5.80		86.6	84.2	8.1	19.0	2.2	2.5		4.5	
128	WWA3	M	MID-EBB	7-Aug-06	11:00	7.30	27.5	5.60	5.52	5.70	89.8	87.6	8.1	19.4	3.6	3.8		4.5	
129	WWA3	B	MID-EBB	7-Aug-06			27.2	5.48	5.41	5.45	85.1	83.6	8.1	20.2	2.7	2.7	2.9	3.5	4.2
130	WRA1	S	MID-EBB	7-Aug-06			27.5	5.86	5.80		90.6	89.1	7.6	15.9	2.1	2.1		2.8	
131	WRA1	M	MID-EBB	7-Aug-06	11:32	30.00	26.5	5.70	5.62	5.75	87.1	84.7	7.6	26.9	9.1	8.6		15.5	
132	WRA1	B	MID-EBB	7-Aug-06			26.3	5.50	5.44	5.47	89.1	85.6	7.6	27.4	9.3	8.8	6.7	20.5	12.9

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West Contract No.HY/2005/06Castle Peak Road Improvement - West of Tsing Lung Tau
Water Quality Impact Monitoring - August 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
133	WRA2	S	MID-EBB	7-Aug-06			27.0	5.89	5.81		94.1	89.6	7.6	17.0	2.7	2.9		2.8	
134	WRA2	M	MID-EBB	7-Aug-06	11:43	26.90	26.2	5.71	5.66	5.77	86.1	83.6	7.6	25.8	6.6	7.1		9.0	
135	WRA2	B	MID-EBB	7-Aug-06			26.3	5.52	5.46	5.49	84.2	82.0	7.6	27.0	5.0	5.0	4.9	16.0	9.3
136	WRA3	S	MID-EBB	7-Aug-06			27.2	5.93	5.86		89.2	87.6	7.6	16.4	2.3	2.4		6.0	
137	WRA3	M	MID-EBB	7-Aug-06	11:54	25.20	26.4	5.73	5.68	5.80	87.6	84.6	7.6	25.8	4.8	4.8		11.0	
138	WRA3	B	MID-EBB	7-Aug-06			26.3	5.56	5.48	5.52	81.7	79.8	7.6	23.5	3.4	3.4	3.5	7.0	8.0
139	WWFCZ1	S	MID-EBB	7-Aug-06			26.9	5.90	5.84		91.1	88.1	7.8	16.2	2.0	2.3		8.0	
140	WWFCZ1	M	MID-EBB	7-Aug-06	12:33	35.60	26.4	5.70	5.61	5.76	87.6	83.1	7.8	25.5	2.7	2.5		11.5	
141	WWFCZ1	B	MID-EBB	7-Aug-06			26.2	5.46	5.41	5.44	87.2	83.9	7.8	26.2	3.1	2.9	2.6	6.5	8.7
142	WWFCZ2	S	MID-EBB	7-Aug-06			27.3	5.89	5.84		92.3	89.6	7.8	16.0	2.4	2.4		7.0	
143	WWFCZ2	M	MID-EBB	7-Aug-06	12:20	34.70	26.4	5.74	5.69	5.79	86.5	83.5	7.8	25.4	2.3	2.5		6.5	
144	WWFCZ2	B	MID-EBB	7-Aug-06			26.3	5.54	5.48	5.51	85.6	82.6	7.8	28.6	3.1	3.2	2.6	10.5	8.0
145	WFCZR1	S	MID-EBB	7-Aug-06			27.2	5.91	5.86		92.4	89.6	8.3	16.3	2.7	2.9		3.5	
146	WFCZR1	M	MID-EBB	7-Aug-06	12:46	39.10	26.6	5.69	5.64	5.78	86.2	83.5	8.3	23.2	1.6	2.0		3.3	
147	WFCZR1	B	MID-EBB	7-Aug-06			26.3	5.53	5.46	5.50	88.6	85.1	8.3	23.4	2.3	2.5	2.3	4.0	3.6
148	WFCZR2	S	MID-EBB	7-Aug-06			27.5	6.10	5.98		93.9	90.9	7.8	15.8	2.1	2.4		4.5	
149	WFCZR2	M	MID-EBB	7-Aug-06	12:08	42.20	26.7	5.96	5.71	5.94	92.1	86.9	7.8	24.2	1.6	1.7		3.8	
150	WFCZR2	B	MID-EBB	7-Aug-06			26.3	5.45	5.40	5.43	86.8	84.1	7.8	25.3	1.7	2.1	1.9	7.0	5.1
151	WWA1	S	MID-FLOOD	7-Aug-06			27.9	5.86	5.81		92.5	90.7	8.0	17.2	2.7	3.0		11.5	
152	WWA1	M	MID-FLOOD	7-Aug-06	16:20	7.30	27.5	5.70	5.65	5.76	88.0	84.6	8.0	18.4	2.9	2.8		7.5	
153	WWA1	B	MID-FLOOD	7-Aug-06			27.4	5.74	5.60	5.67	91.0	88.7	8.0	18.2	3.5	3.6	3.1	11.5	10.2
154	WWA2	S	MID-FLOOD	7-Aug-06			27.9	5.86	5.80		90.3	88.1	8.1	17.2	3.0	2.7		5.5	
155	WWA2	M	MID-FLOOD	7-Aug-06	16:10	9.80	27.7	5.70	5.63	5.75	86.9	86.5	8.1	17.8	3.3	3.4		6.0	
156	WWA2	B	MID-FLOOD	7-Aug-06			27.6	5.60	5.51	5.56	86.3	84.7	8.0	17.4	3.1	3.2	3.1	10.5	7.3
157	WWA3	S	MID-FLOOD	7-Aug-06			28.6	5.87	5.79		91.2	86.8	8.0	16.1	2.6	3.0		7.0	
158	WWA3	M	MID-FLOOD	7-Aug-06	16:00	8.20	27.9	5.63	5.52	5.70	86.5	86.2	8.0	17.6	2.8	3.2		6.5	
159	WWA3	B	MID-FLOOD	7-Aug-06			27.7	5.50	5.46	5.48	89.0	86.5	8.0	18.7	2.8	2.8	2.9	12.0	9.2
160	WRA1	S	MID-FLOOD	7-Aug-06			27.0	5.92	5.87		92.0	89.5	8.2	22.4	3.9	3.8		5.5	
161	WRA1	M																	

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 Water Quality Impact Monitoring - August 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
177	WFCZR1	B	MID-FLOOD	7-Aug-06			26.3	5.48	5.40	5.44	80.1	77.8	8.0	25.9	8.3	7.9	5.2	14.0	13.2
178	WFCZR2	S	MID-FLOOD	7-Aug-06			28.1	5.89	5.83		91.5	86.5	8.1	14.6	9.0	7.2		6.0	
179	WFCZR2	M	MID-FLOOD	7-Aug-06	17:06	43.80	26.6	5.71	5.63	5.77	86.5	82.9	8.1	23.9	3.6	3.0		7.0	
180	WFCZR2	B	MID-FLOOD	7-Aug-06			26.4	5.60	5.50	5.55	86.5	83.5	8.1	25.4	5.1	4.9	5.5	22.5	11.8
181	WWA1	S	MID-EBB	9-Aug-06			26.3	5.89	5.86		91.3	87.7	8.1	17.1	3.2	4.1		6.0	
182	WWA1	M	MID-EBB	9-Aug-06	13:50	6.70	28.1	5.64	5.57	5.74	88.3	84.4	8.1	17.7	4.8	4.9		9.5	
183	WWA1	B	MID-EBB	9-Aug-06			28.1	5.49	5.41	5.45	85.8	83.3	8.1	18.1	4.3	4.2	4.2	10.5	8.7
184	WWA2	S	MID-EBB	9-Aug-06			28.1	5.90	5.82		88.8	85.3	8.0	18.9	8.0	7.7		9.5	
185	WWA2	M	MID-EBB	9-Aug-06	13:40	8.50	28.0	5.73	5.66	5.78	88.1	85.0	8.0	18.9	7.0	6.5		12.5	
186	WWA2	B	MID-EBB	9-Aug-06			28.0	5.50	5.44	5.47	89.9	87.1	8.0	19.0	8.1	8.0	7.6	13.0	11.7
187	WWA3	S	MID-EBB	9-Aug-06			28.3	5.84	5.79		86.5	84.3	8.0	18.3	5.2	5.1		12.5	
188	WWA3	M	MID-EBB	9-Aug-06	13:30	6.50	28.2	5.63	5.58	5.71	87.7	85.1	8.0	19.1	6.0	5.8		10.5	
189	WWA3	B	MID-EBB	9-Aug-06			28.1	5.50	5.43	5.47	85.2	82.2	8.0	19.2	5.5	5.4	5.5	10.0	11.0
190	WRA1	S	MID-EBB	9-Aug-06			28.2	5.81	5.78		88.0	84.8	8.0	16.8	3.1	3.2		6.0	
191	WRA1	M	MID-EBB	9-Aug-06	14:02	31.30	28.0	5.66	5.57	5.71	85.0	82.3	8.0	20.3	5.1	4.9		6.5	
192	WRA1	B	MID-EBB	9-Aug-06			27.5	5.49	5.42	5.46	84.0	79.8	8.0	25.2	10.9	8.5	5.9	32.0	14.8
193	WRA2	S	MID-EBB	9-Aug-06			28.0	5.66	5.79		90.5	87.9	8.1	17.5	3.7	4.1		4.0	
194	WRA2	M	MID-EBB	9-Aug-06	14:14	23.90	27.9	5.70	5.60	5.74	84.6	81.8	8.1	20.5	6.5	6.3		8.5	
195	WRA2	B	MID-EBB	9-Aug-06			27.8	5.54	5.46	5.50	82.6	79.8	8.1	21.2	5.6	5.4	5.3	10.0	7.5
196	WRA3	S	MID-EBB	9-Aug-06			28.1	5.84	5.78		87.9	84.8	8.2	17.3	3.7	3.6		3.5	
197	WRA3	M	MID-EBB	9-Aug-06	14:26	22.70	28.0	5.63	5.58	5.71	90.2	85.8	8.2	19.5	4.4	4.4		7.5	
198	WRA3	B	MID-EBB	9-Aug-06			27.9	5.50	5.45	5.48	87.6	84.4	8.2	19.6	4.4	3.9	4.1	10.5	7.2
199	WWFCZ1	S	MID-EBB	9-Aug-06			28.3	5.87	5.79		89.7	86.6	8.1	16.0	4.3	3.7		6.5	
200	WWFCZ1	M	MID-EBB	9-Aug-06	15:04	29.50	27.6	5.66	5.64	5.74	87.1	82.6	8.1	21.8	3.9	3.6		5.5	
201	WWFCZ1	B	MID-EBB	9-Aug-06			27.5	5.60	5.51	5.56	86.5	87.6	8.1	24.0	8.6	7.5	5.3	11.0	7.7
202	WWFCZ2	S	MID-EBB	9-Aug-06			28.3	5.92	5.86		90.8	87.2	8.0	15.4	3.9	3.5		6.5	
203	WWFCZ2	M	MID-EBB	9-Aug-06	14:52	31.20	27.8	5.74	5.69	5.80	87.0	84.9	8.0	21.0	4.5	3.9		12.0	
204	WWFCZ2	B	MID-EBB	9-Aug-06			27.5	5.57	5.49	5.53	86.3	84.3	8.0	22.7	7.0	6.9	5.0	11.5	10.0
205	WFCZR1	S	MID-EBB	9-Aug-06			28.4	5.91	5.87		92.5	88.3	8.1	15.6	4.4	4.2		6.5	
206	WFCZR1	M	MID-EBB	9-Aug-06	15:17	39.50	28.0	5.72	5.68	5.80	85.9	84.9	8.1	20.6	4.4	4.4		6.5	
207	WFCZR1	B	MID-EBB	9-Aug-06			27.8	5.50	5.42	5.46	83.6	80.6	8.1	21.4	5.0	4.2	4.4	6.5	6.5
208	WFCZR2	S	MID-EBB	9-Aug-06			28.6	5.89	5.80		88.1	86.6	8.0	15.0	4.4	4.6		6.0	
209	WFCZR2	M	MID-EBB	9-Aug-06	14:39	41.30	27.8	5.72	5.64	5.76	90.6	86.5	8.0	21.4	4.0	3.9		6.5	
210	WFCZR2	B	MID-EBB	9-Aug-06			27.5	5.52	5.47	5.50	83.8	80.8	8.0	23.1	5.2	5.1	4.5	6.5	7.0
211	WWA1	S	MID-FLOOD	9-Aug-06			27.6	5.91	5.87		94.7	90.5	8.3	19.9	2.4	2.4		3.0	
212	WWA1	M	MID-FLOOD	9-Aug-06	9:19	7.30	27.1	5.70	5.65	5.78	89.3	86.4	8.3	25.8	2.6	2.8		5.5	
213	WWA1	B	MID-FLOOD	9-Aug-06			27.1	5.50	5.44	5.47	81.1	79.6	8.3	26.0	4.3	4.2	3.1	3.5	4.0
214	WWA2	S	MID-FLOOD	9-Aug-06			27.5	5.86	5.80		88.8	85.7	8.3	23.1	3.2	3.1		8.0	
215	WWA2	M	MID-FLOOD	9-Aug-06	9:10	8.30	27.2	5.61	5.57	5.71	84.0	82.6	8.3	25.4	4.4	4.2		9.5	
216	WWA2	B	MID-FLOOD	9-Aug-06			27.7	5.48	5.44	5.46	86.3	83.4	8.3	25.5	4.2	4.3	3.9	12.0	9.8
217	WWA3	S	MID-FLOOD	9-Aug-06			27.5	5.86	5.81		89.1	84.8	8.3	22.7	3.0	2.8		5.5	
218	WWA3	M	MID-FLOOD	9-Aug-06	9:00	7.50	27.4	5.60	5.53	5.70	86.1	84.2	8.3	24.1	4.3	4.1		7.5	
219	WWA3	B	MID-FLOOD	9-Aug-06			27.4	5.48	5.41	5.45	85.8	83.2	8.3	25.3	4.7	4.9	4.0	4.3	5.8
220	WRA1	S	MID-FLOOD	9-Aug-06			27.8	5.86	5.81		88.8	87.6	8.3	19.5	3.6	3.6		4.5	

West Contract No.HY2005/06Castle Peak Road Improvement - West of Tsing Lung Tau
 Water Quality Impact Monitoring - August 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
221	WRA1	M	MID-FLOOD	9-Aug-06	9:32	31.60	27.2	5.74	5.68	5.77	86.5	85.2	8.3	26.7	2.9	3.0		8.5	
222	WRA1	B	MID-FLOOD	9-Aug-06			27.1	5.57	5.66	5.62	85.0	81.6	8.3	26.5	5.0	4.8	3.8	9.0	7.3
223	WRA2	S	MID-FLOOD	9-Aug-06			27.6	5.86	5.79		88.8	86.4	8.3	19.5	4.1	4.1		3.5	
224	WRA2	M	MID-FLOOD	9-Aug-06	9:44	27.50	27.2	5.66	5.62	5.73	84.4	82.7	8.3	25.5	2.9	2.7		5.5	
225	WRA2	B	MID-FLOOD	9-Aug-06			27.1	5.50	5.46	5.48	84.4	80.5	8.3	27.0	4.0	4.2	3.7	7.0	5.3
226	WRA3	S	MID-FLOOD	9-Aug-06			27.5	5.87	5.76		89.0	86.0	8.3	18.7	3.8	3.6		4.0	
227	WRA3	M	MID-FLOOD	9-Aug-06	9:57	25.40	27.1	5.64	5.57	5.71	89.3	86.2	8.3	26.3	2.2	2.4		9.0	
228	WRA3	B	MID-FLOOD	9-Aug-06			27.1	5.52	5.46	5.49	80.1	78.6	8.3	25.4	3.5	3.2	3.1	4.5	5.8
229	WWFCZ1	S	MID-FLOOD	9-Aug-06			27.5	5.94	5.89		89.3	85.3	8.3	18.0	3.0	3.1		5.5	
230	WWFCZ1	M	MID-FLOOD	9-Aug-06	10:38	35.70	27.2	5.73	5.69	5.81	84.9	81.9	8.3	26.3	2.4	2.5		4.5	
231	WWFCZ1	B	MID-FLOOD	9-Aug-06			27.1	5.56	5.48	5.52	82.4	80.2	8.3	25.5	2.9	3.0	2.8	4.0	4.7
232	WWFCZ2	S	MID-FLOOD	9-Aug-06			27.6	5.92	5.89		91.0	88.6	8.3	18.8	2.8	2.8		2.0	
233	WWFCZ2	M	MID-FLOOD	9-Aug-06	10:11	36.20	27.1	5.76	5.70	5.82	85.6	83.7	8.3	25.5	3.3	3.1		4.5	
234	WWFCZ2	B	MID-FLOOD	9-Aug-06			27.1	5.60	5.51	5.56	84.7	81.4	8.3	26.5	3.3	3.2	3.1	7.5	4.7
235	WFCZR1	S	MID-FLOOD	9-Aug-06			27.4	5.65	5.80		89.8	85.7	8.3	19.0	2.2	2.9		5.0	
236	WFCZR1	M	MID-FLOOD	9-Aug-06	10:49	40.30	27.1	5.70	5.65	5.75	86.8	83.4	8.3	24.8	2.9	2.7		5.5	
237	WFCZR1	B	MID-FLOOD	9-Aug-06			27.1	5.58	5.49	5.54	83.9	81.1	8.3	23.9	3.1	3.1	2.8	4.0	4.8
238	WFCZR2	S	MID-FLOOD	9-Aug-06			27.4	5.89	5.85		89.2	85.2	8.3	18.5	2.6	2.7		10.5	
239	WFCZR2	M	MID-FLOOD	9-Aug-06	10:24	41.20	27.1	5.76	5.70	5.80	89.6	87.5	8.3	25.8	3.4	3.4		6.5	
240	WFCZR2	B	MID-FLOOD	9-Aug-06			27.1												

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Water Quality Impact Monitoring - August 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, mg/L	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
265	WFCZR1	S	MID-EBB	11-Aug-06	15:49	40.00	28.4	5.86	5.80	5.76	86.7	85.4	8.2	17.6	4.8	4.7	4.6	6.5	7.3
266	WFCZR1	M	MID-EBB	11-Aug-06			27.6	5.71	5.68		86.0	84.9	8.2	21.6	4.2	4.2		8.5	
267	WFCZR1	E	MID-EBB	11-Aug-06			27.1	5.57	5.47		83.5	82.1	8.2	23.0	4.8	4.7		7.0	
268	WFCZR2	S	MID-EBB	11-Aug-06	15:12	40.80	28.5	5.86	5.78	5.72	89.6	88.4	8.2	16.2	4.5	4.5	4.6	8.0	8.0
269	WFCZR2	M	MID-EBB	11-Aug-06			27.7	5.64	5.59		86.1	84.7	8.2	22.8	4.3	4.2		7.0	
270	WFCZR2	B	MID-EBB	11-Aug-06			27.3	5.48	5.40		80.8	79.8	8.2	23.9	5.0	4.9		8.0	
271	WWA1	S	MID-FLOOD	11-Aug-06	9:27	8.20	27.5	5.83	5.76	5.75	95.7	94.8	8.3	20.7	2.6	2.5	2.8	6.0	13.7
272	WWA1	M	MID-FLOOD	11-Aug-06			27.3	5.74	5.66		94.6	92.1	8.3	24.5	2.9	2.8		15.5	
273	WWA1	B	MID-FLOOD	11-Aug-06			27.2	5.49	5.41		90.5	88.6	8.3	25.9	3.1	3.1		19.5	
274	WWA2	S	MID-FLOOD	11-Aug-06	9:13	8.90	27.6	5.89	5.82	5.77	99.7	98.3	8.3	22.5	3.1	3.1	3.5	10.5	15.3
275	WWA2	M	MID-FLOOD	11-Aug-06			27.4	5.75	5.62		86.5	87.2	8.3	24.8	3.5	3.2		20.0	
276	WWA2	B	MID-FLOOD	11-Aug-06			27.3	5.53	5.41		87.5	86.2	8.3	25.7	4.1	4.0		15.5	
277	WWA3	S	MID-FLOOD	11-Aug-06	9:00	8.60	27.6	5.78	5.72	5.69	87.3	87.1	8.3	21.8	3.1	2.9	3.5	8.5	17.7
278	WWA3	M	MID-FLOOD	11-Aug-06			27.4	5.64	5.61		86.5	86.3	8.3	23.5	3.2	3.2		20.0	
279	WWA3	B	MID-FLOOD	11-Aug-06			27.2	5.56	5.42		86.9	86.4	8.3	26.9	4.5	4.2		24.5	
280	WRA1	S	MID-FLOOD	11-Aug-06	9:40	33.50	27.9	5.79	5.73	5.69	87.2	86.5	8.3	20.7	3.5	3.5	3.5	4.5	8.7
281	WRA1	M	MID-FLOOD	11-Aug-06			27.4	5.64	5.61		85.3	84.8	8.3	22.8	3.0	2.9		15.5	
282	WRA1	B	MID-FLOOD	11-Aug-06			27.2	5.63	5.57		85.1	84.2	8.3	27.5	4.2	4.1		6.0	
283	WRA2	S	MID-FLOOD	11-Aug-06	9:56	29.00	27.7	5.93	5.82	5.79	87.9	87.2	8.3	19.3	4.0	3.8	3.4	9.5	6.7
284	WRA2	M	MID-FLOOD	11-Aug-06			27.5	5.71	5.69		86.5	86.2	8.3	24.5	3.1	3.1		5.0	
285	WRA2	B	MID-FLOOD	11-Aug-06			27.3	5.58	5.41		84.9	84.2	8.3	26.2	3.2	3.2		11.5	
286	WRA3	S	MID-FLOOD	11-Aug-06	10:17	26.50	27.4	5.76	5.71	5.69	88.6	87.5	8.3	19.6	3.8	3.7	3.4	4.5	7.4
287	WRA3	M	MID-FLOOD	11-Aug-06			27.1	5.66	5.62		87.3	86.1	8.3	23.6	3.2	3.2		5.3	
288	WRA3	B	MID-FLOOD	11-Aug-06			27.0	5.48	5.51		85.3	84.6	8.3	24.1	3.3	3.2		12.5	
289	WWFCZ1	S	MID-FLOOD	11-Aug-06	10:54	36.50	27.6	5.83	5.79	5.83	87.2	86.1	8.3	19.5	3.2	3.2	3.2	7.5	9.8
290	WWFCZ1	M	MID-FLOOD	11-Aug-06			27.4	5.89	5.81		87.9	85.3	8.3	25.4	3.2	3.2		14.5	
291	WWFCZ1	B	MID-FLOOD	11-Aug-06			27.3	5.71	5.68		85.1	82.5	8.3	27.3	3.1	3.1		7.5	
292	WWFCZ2	S	MID-FLOOD	11-Aug-06	10:41	37.10	27.7	5.75	5.69	5.71	89.5	88.2	8.3	19.5	2.8	3.0	3.1	7.0	9.0
293	WWFCZ2	M	MID-FLOOD	11-Aug-06			27.5	5.71	5.69		85.7	84.6	8.3	24.9	3.2	3.2		8.0	
294	WWFCZ2	B	MID-FLOOD	11-Aug-06			27.4	5.77	5.68		83.7	82.5	8.3	28.3	3.1	3.2		12.0	
295	WFCZR1	S	MID-FLOOD	11-Aug-06	11:16	42.50	27.7	5.75	5.71	5.69	88.3	87.2	8.3	18.6	2.9	2.8	2.9	5.0	6.5
296	WFCZR1	M	MID-FLOOD	11-Aug-06			27.6	5.68	5.62		85.4	84.6	8.3	25.1	2.8	2.8		6.0	
297	WFCZR1	B	MID-FLOOD	11-Aug-06			27.5	5.63	5.61		82.5	82.1	8.3	25.7	3.2	3.2		5.5	
298	WFCZR2	S	MID-FLOOD	11-Aug-06	10:30	41.80	27.6	5.78	5.72	5.70	87.1	86.5	8.3	17.1	2.7	2.8	3.1	2.8	5.1
299	WFCZR2	M	MID-FLOOD	11-Aug-06			27.2	5.68	5.61		88.3	87.2	8.3	24.3	3.2	3.2		5.5	
300	WFCZR2	B	MID-FLOOD	11-Aug-06			27.2	5.56	5.49		85.4	83.2	8.3	25.8	3.3	3.1		7.0	
301	WWA1	S	MID-EBB	14-Aug-06	16:21	7.60	28.4	5.84	5.81	5.81	85.7	82.6	7.7	12.7	4.4	4.1	4.5	8.0	8.2
302	WWA1	M	MID-EBB	14-Aug-06			28.6	5.80	5.79		89.7	87.6	7.7	21.3	4.1	3.8		8.5	
303	WWA1	B	MID-EBB	14-Aug-06			28.4	5.54	5.50		87.3	84.8	7.7	23.9	5.6	5.1		10.0	
304	WWA2	S	MID-EBB	14-Aug-06	16:10	10.20	28.8	5.88	5.82	5.77	89.7	86.0	7.6	22.4	4.7	3.9	4.2	10.5	9.2
305	WWA2	M	MID-EBB	14-Aug-06			28.6	5.70	5.68		86.9	84.7	7.6	23.4	4.2	4.5		8.5	
306	WWA2	B	MID-EBB	14-Aug-06			28.3	5.53	5.46		87.6	85.1	7.6	24.7	3.8	4.0		7.5	
307	WWA3	S	MID-EBB	14-Aug-06	16:00	7.10	28.6	5.85	5.80	5.76	89.8	87.1	7.7	22.5	4.0	4.2	4.2	7.5	5.5
308	WWA3	M	MID-EBB	14-Aug-06			28.3	5.71	5.67		84.7	82.2	7.7	24.0	4.2	4.3		5.5	

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Water Quality Impact Monitoring - August 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, mg/L	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
309	WWA3	B	MID-EBB	14-Aug-06	16:35	29.60	27.9	5.90	5.46	5.68	84.8	81.4	7.7	25.9	3.8	4.1	5.2	6.5	7.7
310	WRA1	S	MID-EBB	14-Aug-06			28.3	5.87	5.82		92.7	88.6	7.4	22.3	4.0	3.9		5.5	
311	WRA1	M	MID-EBB	14-Aug-06			27.9	5.84	5.58		89.6	85.9	7.4	25.8	5.6	5.6		7.5	
312	WRA1	B	MID-EBB	14-Aug-06	16:49	25.10	27.8	5.48	5.47	5.48	90.1	86.3	7.4	26.8	6.1	6.3	4.6	10.0	8.0
313	WRA2	S	MID-EBB	14-Aug-06			26.5	5.89	5.82		92.5	89.6	7.7	22.1	5.1	4.9		7.0	
314	WRA2	M	MID-EBB	14-Aug-06			27.8	5.60	5.57		88.1	84.4	7.6	24.8	3.8	4.1		7.0	
315	WRA2	B	MID-EBB	14-Aug-06	17:02	21.20	27.6	5.49	5.46	5.48	86.1	83.3	7.7	26.4	4.9	4.9	4.1	10.0	10.3
316	WRA3	S	MID-EBB	14-Aug-06			28.1	5.84	5.78		89.9	86.5	7.7	23.6	4.1	4.0		16.0	
317	WRA3	M	MID-EBB	14-Aug-06			27.8	5.84	5.61		86.6	83.6	7.7	25.4	3.9	4.1		7.5	
318	WRA3	B	MID-EBB	14-Aug-06	17:45	30.20	27.8	5.46	5.42	5.44	86.1	83.1	7.7	26.1	4.3	4.3	4.9	7.5	7.3
319	WWFCZ1	S	MID-EBB	14-Aug-06			28.1	5.79	5.74		91.0	87.2	7.5	22.2	4.1	4.3		6.0	
320	WWFCZ1	M	MID-EBB	14-Aug-06			27.8	5.60	5.33		87.9	86.4	7.5	25.9	5.7	4.8		7.0	
321	WWFCZ1	B	MID-EBB	14-Aug-06	17:32	33.60	27.7	5.51	5.46	5.49	85.1	81.8	7.5	26.7	5.3	5.3	4.6	9.0	8.5
322	WWFCZ2	S	MID-EBB	14-Aug-06			28.3	5.85	5.78		89.6	84.0	7.5	22.5	3.9	4.3		10.5	
323	WWFCZ2	M	MID-EBB	14-Aug-06			27.9	5.66	5.60		86.3	82.8	7.5	25.3	5.0	5.4		8.5	
324	WWFCZ2	B	MID-EBB	14-Aug-06	17:58	41.50	27.7	5.53	5.47	5.50	87.7	84.7	7.5	25.6	4.6	4.3	4.6	6.5	9.7
325	WFCZR1	S	MID-EBB	14-Aug-06			28.3	5.86	5.79		90.6	88.8	7.8	22.4	4.5	4.2		11.0	
326	WFCZR1	M	MID-EBB	14-Aug-06			27.7	5.80	5.56		87.9	84.1	7.9	26.2	4.0	3.9		9.0	
327	WFCZR1	B	MID-EBB	14-Aug-06	17:19	39.50	27.7	5.47	5.44	5.71	84.9	80.6	7.9	26.3	5.5	5.2	4.9	9.0	5.8
328	WFCZR2	S	MID-EBB	14-Aug-06			28.4	5.90	5.85		92.2	87.6	7.8	22.5	4.4	4.3		4.0	
329	WFCZR2	M	MID-EBB	14-Aug-06			27.9	5.58	5.50		86.8	83.5	7.8	24.6	5.4	5.4		6.0	
330	WFCZR2	B	MID-EBB	14-Aug-06	11:46	8.00	27.8	5.45	5.41	5.43	88.5	84.7	7.8	25.1	5.2	4.7	5.9	7.5	10.2
331	WWA1	S	MID-FLOOD	14-Aug-06			27.7	5.94	5.90		94.0	89.8	8.4	25.4	5.8	4.9		9.5	
332	WWA1	M	MID-FLOOD	14-Aug-06			27.7	5.60	5.54		83.7	81.7	8.35	25.5					

West Contract No.HY/2005/06Castle Peak Road Improvement - West of Tsing Lung Tau
Water Quality Impact Monitoring - August 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
353	WWFCZ2	M	MID-FLOOD	14-Aug-06	10:56	35.00	27.1	5.59	5.53	5.71	87.4	84.1	6.4	25.1	7.8	6.9		15.0	
354	WWFCZ2	B	MID-FLOOD	14-Aug-06			27.7	5.46	5.40	5.43	86.5	81.8	6.4	25.5	10.6	10.6	8.6	20.5	17.2
355	WFCZR1	S	MID-FLOOD	14-Aug-06			28.0	5.66	5.60		90.5	85.2	6.2	20.7	2.7	3.1		16.5	
356	WFCZR1	M	MID-FLOOD	14-Aug-06	10:30	42.70	27.7	5.64	5.58	5.72	88.6	86.1	8.2	26.1	7.5	6.8		19.0	
357	WFCZR1	B	MID-FLOOD	14-Aug-06			27.7	5.48	5.42	5.45	86.8	84.0	8.2	27.5	11.3	12.1	7.3	14.0	15.2
358	WFCZR2	S	MID-FLOOD	14-Aug-06			27.7	5.84	5.78		86.2	82.2	8.4	24.5	7.7	7.7		12.0	
359	WFCZR2	M	MID-FLOOD	14-Aug-06	11:06	40.90	27.7	5.68	5.59	5.73	87.2	83.4	8.4	25.6	11.3	10.7		18.0	
360	WFCZR2	B	MID-FLOOD	14-Aug-06			27.7	5.50	5.45	5.48	85.0	82.2	8.4	26.5	8.6	9.2	9.2	23.0	17.7
361	WWA1	S	MID-EBB	16-Aug-06			29.4	5.86	5.84		94.6	94.0	8.2	17.5	5.9	5.4		12.0	
362	WWA1	M	MID-EBB	16-Aug-06	10:44	30.20	29.0	5.63	5.58	5.73	90.0	88.3	8.2	19.0	6.1	6.0		11.0	
363	WWA1	B	MID-EBB	16-Aug-06			28.6	5.50	5.46	5.48	87.4	84.4	8.2	20.0	4.9	4.3	5.4	9.5	10.8
364	WWA2	S	MID-EBB	16-Aug-06			29.5	5.90	5.85		92.1	90.6	8.2	17.2	3.5	3.3		2.8	
365	WWA2	M	MID-EBB	16-Aug-06	11:00	24.70	28.7	5.76	5.68	5.80	90.1	87.4	8.2	19.0	3.7	3.3		7.5	
366	WWA2	B	MID-EBB	16-Aug-06			28.8	5.50	5.46	5.48	81.0	79.6	8.2	19.5	3.4	3.2	3.4	4.0	4.8
367	WWA3	S	MID-EBB	16-Aug-06			28.7	5.88	5.82		89.2	86.5	8.2	19.1	3.8	3.8		7.5	
368	WWA3	M	MID-EBB	16-Aug-06	11:13	25.10	28.7	5.64	5.60	5.74	90.0	87.3	8.2	19.3	4.1	4.1		8.5	
369	WWA3	B	MID-EBB	16-Aug-06			28.5	5.56	5.51	5.54	82.6	80.1	8.2	20.1	3.7	3.7	3.9	6.5	7.5
370	WRA1	S	MID-EBB	16-Aug-06			26.9	5.90	5.86		93.6	90.8	8.3	17.3	5.6	5.4		7.5	
371	WRA1	M	MID-EBB	16-Aug-06	10:29	8.30	28.3	5.74	5.71	5.80	89.0	84.5	8.3	23.8	4.2	4.1		7.5	
372	WRA1	B	MID-EBB	16-Aug-06			27.9	5.58	5.50	5.54	84.4	80.7	8.3	25.9	4.1	4.3	4.6	6.0	7.0
373	WRA2	S	MID-EBB	16-Aug-06			29.1	5.84	5.80		93.6	91.4	8.3	16.8	3.7	3.6		5.0	
374	WRA2	M	MID-EBB	16-Aug-06	10:19	10.90	28.5	5.66	5.59	5.72	89.0	84.0	8.3	21.8	4.0	3.7		5.5	
375	WRA2	B	MID-EBB	16-Aug-06			28.2	5.51	5.47	5.49	85.4	82.4	8.3	24.6	3.9	3.8	3.8	6.5	5.7
376	WRA3	S	MID-EBB	16-Aug-06			29.1	5.82	5.79		92.9	90.7	8.3	17.0	4.0	4.2		7.0	
377	WRA3	M	MID-EBB	16-Aug-06	10:09	9.50	28.7	5.60	5.57	5.70	85.6	82.7	8.3	21.1	3.8	3.7		7.0	
378	WRA3	B	MID-EBB	16-Aug-06			28.4	5.48	5.42	5.45	81.0	80.3	8.3	24.8	4.4	4.3	4.0	5.5	6.5
379	WWFCZ1	S	MID-EBB	16-Aug-06			28.7	5.94	5.89		93.3	91.3	8.3	16.8	4.7	4.8		8.5	
380	WWFCZ1	M	MID-EBB	16-Aug-06	9:32	33.00	28.3	5.60	5.54	5.74	87.5	83.9	8.3	22.1	5.3	5.0		10.0	
381	WWFCZ1	B	MID-EBB	16-Aug-06			28.1	5.51	5.46	5.49	86.8	82.5	8.3	24.9	6.1	6.1	5.3	12.5	10.3
382	WWFCZ2	S	MID-EBB	16-Aug-06			28.8	5.84	5.80		91.9	89.9	8.4	17.1	3.4	3.3		8.5	
383	WWFCZ2	M	MID-EBB	16-Aug-06	9:44	32.30	28.4	5.65	5.58	5.72	89.6	85.8	8.4	22.4	5.2	5.4		9.5	
384	WWFCZ2	B	MID-EBB	16-Aug-06			28.0	5.49	5.42	5.46	87.2	83.5	8.4	25.7	4.3	4.3	4.3	9.5	9.2
385	WFCZR1	S	MID-EBB	16-Aug-06			28.8	5.86	5.82		90.7	87.8	8.3	17.4	3.9	3.5		5.0	
386	WFCZR1	M	MID-EBB	16-Aug-06	9:20	38.00	28.4	5.76	5.71	5.79	87.4	84.3	8.3	22.2	4.6	4.3		8.0	
387	WFCZR1	B	MID-EBB	16-Aug-06			28.1	5.47	5.45	5.46	82.6	80.1	8.3	25.9	4.6	4.7	4.3	8.0	7.0
388	WFCZR2	S	MID-EBB	16-Aug-06			28.7	5.83	5.76		93.3	90.7	8.3	16.7	3.6	3.7		6.5	
389	WFCZR2	M	MID-EBB	16-Aug-06	9:57	38.80	28.6	5.59	5.56	5.69	87.1	84.4	8.2	23.4	5.5	5.4		11.5	
390	WFCZR2	B	MID-EBB	16-Aug-06			28.2	5.48	5.44	5.49	84.6	81.3	8.2	23.3	4.4	4.6	4.5	13.5	11.2
391	WWA1	S	MID-FLOOD	16-Aug-06			28.9	5.88	5.76		92.8	92.0	7.5	22.9	4.5	4.5		8.5	
392	WWA1	M	MID-FLOOD	16-Aug-06	13:48	8.60	28.8	5.71	5.68	5.76	89.1	88.7	7.5	24.6	5.0	4.9		10.0	
393	WWA1	B	MID-FLOOD	16-Aug-06			28.5	5.47	5.46	5.47	87.0	85.3	7.5	24.9	5.1	4.9	4.8	11.0	10.2
394	WWA2	S	MID-FLOOD	16-Aug-06			28.9	5.89	5.79		91.9	91.0	7.5	23.3	5.2	5.0		9.0	
395	WWA2	M	MID-FLOOD	16-Aug-06	13:39	11.50	28.7	5.78	5.66	5.78	89.9	89.1	7.5	23.9	4.8	4.8		12.5	
396	WWA2	B	MID-FLOOD	16-Aug-06			28.6	5.50	5.45	5.48	87.6	86.5	7.5	24.0	4.7	4.5	4.8	11.5	11.0

West Contract No.HY/2005/06Castle Peak Road Improvement - West of Tsing Lung Tau
Water Quality Impact Monitoring - August 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
397	WWA3	S	MID-FLOOD	16-Aug-06			29.6	5.90	5.85		88.2	85.0	7.5	10.5	4.1	4.0		11.5	
398	WWA3	M	MID-FLOOD	16-Aug-06	13:30	9.80	29.0	5.82	5.77	5.84	89.3	88.1	7.5	23.7	4.2	4.6		11.5	
399	WWA3	B	MID-FLOOD	16-Aug-06			28.8	5.58	5.50	5.54	82.8	81.6	7.5	23.9	4.6	4.5	4.3	13.0	12.0
400	WRA1	S	MID-FLOOD	16-Aug-06			28.7	5.93	5.90		92.2	91.5	7.5	23.4	4.8	4.3		10.0	
401	WRA1	M	MID-FLOOD	16-Aug-06	14:03	30.60	28.1	5.80	5.76	5.85	88.6	85.4	7.5	27.0	6.0	5.8		9.5	
402	WRA1	B	MID-FLOOD	16-Aug-06			28.1	5.60	5.55	5.58	86.3	82.9	7.5	26.6	4.6	4.3	4.9	6.5	8.7
403	WRA2	S	MID-FLOOD	16-Aug-06			28.7	5.96	5.97		94.7	93.8	7.3	22.7	6.1	5.9		7.5	
404	WRA2	M	MID-FLOOD	16-Aug-06	14:13	25.90	28.4	5.82	5.80	5.89	91.1	88.8	7.4	24.7	5.0	5.1		7.5	
405	WRA2	B	MID-FLOOD	16-Aug-06			28.1	5.60	5.54	5.57	85.3	81.3	7.3	26.4	3.5	3.3	4.8	4.5	6.5
406	WRA3	S	MID-FLOOD	16-Aug-06			29.3	5.95	5.86		93.5	92.6	7.5	19.9	4.3	4.4		7.5	
407	WRA3	M	MID-FLOOD	16-Aug-06	14:23	25.40	28.4	5.74	5.70	5.81	88.2	86.1	7.5	25.5	4.6	4.4		8.5	
408	WRA3	B	MID-FLOOD	16-Aug-06			28.2	5.58	5.49	5.54	85.0	82.1	7.5	26.5	5.8	5.9	4.9	5.0	7.0
409	WWFCZ1	S	MID-FLOOD	16-Aug-06			28.9	5.92	5.86		95.6	94.8	7.5	20.4	4.2	4.3		7.5	
410	WWFCZ1	M	MID-FLOOD	16-Aug-06	15:00	34.30	28.4	5.72	5.66	5.79	86.4	84.4	7.5	24.4	6.7	6.2		10.0	
411	WWFCZ1	B	MID-FLOOD	16-Aug-06			28.0	5.58	5.52	5.55	83.5	80.2	7.5	26.8	5.4	5.5	5.4	14.5	10.7
412	WWFCZ2	S	MID-FLOOD	16-Aug-06			28.7	5.93	5.89		94.7	93.8	7.3	22.5	4.1	4.1		9.0	
413	WWFCZ2	M	MID-FLOOD	16-Aug-06	14:48	33.60	28.3	5.72	5.68	5.81	87.4	85.4	7.3	26.0	5.4	5.4		9.0	
414	WWFCZ2	B	MID-FLOOD	16-Aug-06			28.0	5.52	5.47	5.50	87.6	84.5	7.3	26.9	5.2	5.2	4.9	10.0	9.3
415	WFCZR1	S	MID-FLOOD	16-Aug-06			28.5	5.85	5.83		91.5	89.9	7.5	23.6	4.7	4.7		15.5	
416	WFCZR1	M	MID-FLOOD	16-Aug-06	15:13	37.90	28.3	5.74	5.71	5.78	87.0	84.9	7.5	25.6	5.6	5.9		6.5	
417	WFCZR1	B	MID-FLOOD	16-Aug-06			27.8	5.60	5.54	5.57	83.8	81.4	7.5	28.7	6.6	6.1	5.6	15.0	12.3
418	WFCZR2	S	MID-FLOOD	16-Aug-06			29.2	5.94	5.90		92.1	89.8	7.4	19.6	4.5	4.3		12.0	
419	WFCZR2	M	MID-FLOOD	16-Aug-06	14:36	39.50	28.4	5.82	5.78	5.86	86.3	85.4	7.4	25.4	7.0	6.5		11.0	
420	WFCZR2	B	MID-FLOOD	16-Aug-06			28.2	5.56	5.49	5.53	85.9	82.3	7.4	26.3	6.7	6.3	5.9	11.0	11.3
421	WWA1	S	MID-EBB	18-Aug-06			29.0	5.84	5.73		88.7	88.3	8.4	21.8	3.2	3.2		5.5	
422	WWA1	M	MID-EBB	18-Aug-06	9:20	7.20	28.8	5.60	5.54	5.68	88.0	87.2	8.4	21.8	3.9	3.8		5.5	
423	WWA1	B	MID-EBB	18-Aug-06			28.8	5.47	5.41	5.44	84.1	83.2	8.4	22.0	3.6	3.5	3.5	7.0	6.0
424	WWA2	S	MID-EBB	18-Aug-06			29.2												

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Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
441	WWFCZ1	B	MID-EBB	18-Aug-06	10:23	30.00	27.4	5.50	5.46	5.48	82.6	81.9	8.3	27.9	3.1	3.2	3.5	19.0	17.6
442	WWFCZ2	S	MID-EBB	18-Aug-06			26.9	5.86	5.80	5.73	89.0	91.6	8.4	21.3	3.2	3.1	3.9	6.5	8.3
443	WWFCZ2	M	MID-EBB	18-Aug-06			27.9	5.63	5.61	5.73	88.0	86.2	8.4	24.6	4.0	4.1	3.9	7.5	
444	WWFCZ2	B	MID-EBB	18-Aug-06			27.4	5.54	5.49	5.52	80.6	79.7	8.4	27.1	4.6	4.5	3.9	6.5	
445	WFCZR1	S	MID-EBB	18-Aug-06	10:48	37.70	28.9	5.92	5.86	5.81	92.2	89.9	8.3	22.0	4.1	4.0	4.1	6.0	
446	WFCZR1	M	MID-EBB	18-Aug-06			27.9	5.77	5.69	5.81	87.1	86.0	8.4	23.9	3.2	3.5	3.5	8.5	
447	WFCZR1	B	MID-EBB	18-Aug-06			27.5	5.52	5.44	5.48	83.3	82.2	8.4	25.0	3.0	2.9	3.5	8.5	7.7
448	WFCZR2	S	MID-EBB	18-Aug-06			29.2	5.90	5.85	5.78	90.0	88.8	8.4	22.0	3.7	3.6	3.5	17.0	
449	WFCZR2	M	MID-EBB	18-Aug-06	10:10	37.40	28.1	5.69	5.65	5.78	84.0	83.7	8.4	26.0	4.5	4.6	4.1	17.0	
450	WFCZR2	B	MID-EBB	18-Aug-06			27.4	5.50	5.43	5.47	82.1	81.6	8.4	28.1	4.0	3.9	4.1	23.0	19.0
451	WWA1	S	MID-FLOOD	18-Aug-06			28.5	5.87	5.65	5.74	94.3	92.6	8.2	21.9	2.5	2.7	2.7	6.5	
452	WWA1	M	MID-FLOOD	18-Aug-06			28.4	5.73	5.69	5.74	91.2	90.8	8.2	25.4	2.8	2.6	2.7	8.0	
453	WWA1	B	MID-FLOOD	18-Aug-06	16:28	8.70	28.4	5.48	5.31	5.40	86.6	87.2	8.2	24.2	2.3	3.0	2.7	12.5	
454	WWA2	S	MID-FLOOD	18-Aug-06			28.4	5.65	5.46	5.40	85.7	84.9	8.2	25.3	3.2	3.1	2.7	22.5	
455	WWA2	M	MID-FLOOD	18-Aug-06			28.4	5.66	5.72	5.63	83.2	82.6	8.2	27.2	3.8	3.6	3.4	24.0	
456	WWA2	B	MID-FLOOD	18-Aug-06			28.3	5.49	5.51	5.50	84.5	84.3	8.2	28.3	3.5	3.1	3.4	23.0	23.2
457	WWA3	S	MID-FLOOD	18-Aug-06	16:00	8.50	28.5	5.67	5.63	5.58	85.7	84.6	8.2	22.4	3.0	2.9	3.2	12.5	
458	WWA3	M	MID-FLOOD	18-Aug-06			28.5	5.49	5.51	5.58	85.3	84.9	8.2	25.6	3.5	3.5	3.2	8.5	
459	WWA3	B	MID-FLOOD	18-Aug-06			28.4	5.37	5.26	5.32	83.3	82.1	8.2	26.4	3.2	3.2	3.2	6.0	9.0
460	WRA1	S	MID-FLOOD	18-Aug-06			28.7	5.73	5.61	5.65	90.2	89.3	8.3	19.3	2.1	2.1	3.8	9.5	
461	WRA1	M	MID-FLOOD	18-Aug-06	16:44	30.40	28.5	5.63	5.61	5.53	87.2	86.1	8.3	29.7	4.9	4.6	3.8	5.0	
462	WRA1	B	MID-FLOOD	18-Aug-06			28.5	5.57	5.49	5.53	85.3	84.6	8.3	28.5	4.7	4.6	3.8	7.0	
463	WRA2	S	MID-FLOOD	18-Aug-06			28.9	5.73	5.63	5.58	89.7	88.3	8.3	21.3	2.9	2.9	3.8	12.0	
464	WRA2	M	MID-FLOOD	18-Aug-06			28.7	5.53	5.41	5.58	87.2	86.3	8.3	24.4	2.8	2.6	3.8	6.0	
465	WRA2	B	MID-FLOOD	18-Aug-06	16:59	26.90	28.7	5.31	5.29	5.30	85.4	83.7	8.3	28.7	3.1	3.2	2.9	6.0	8.7
466	WRA3	S	MID-FLOOD	18-Aug-06			28.4	5.83	5.73	5.63	85.3	87.2	8.3	25.3	3.1	3.2	3.8	8.5	
467	WRA3	M	MID-FLOOD	18-Aug-06			28.2	5.41	5.53	5.63	88.1	84.6	8.3	30.6	5.4	5.4	3.8	9.0	
468	WRA3	B	MID-FLOOD	18-Aug-06			28.2	5.57	5.43	5.50	85.9	84.2	8.3	30.5	5.7	5.4	4.7	8.0	8.5
469	WWFCZ1	S	MID-FLOOD	18-Aug-06	17:48	33.60	28.5	5.74	5.68	5.72	95.3	94.6	8.3	22.4	2.4	2.7	3.4	6.0	
470	WWFCZ1	M	MID-FLOOD	18-Aug-06			28.3	5.77	5.69	5.72	89.2	88.7	8.3	28.6	3.5	3.6	3.4	7.0	
471	WWFCZ1	B	MID-FLOOD	18-Aug-06			28.1	5.72	5.63	5.68	85.4	84.2	8.3	29.7	4.1	3.9	3.4	6.0	6.3
472	WWFCZ2	S	MID-FLOOD	18-Aug-06			28.5	5.85	5.61	5.68	91.3	90.6	8.3	22.5	3.2	3.5	3.4	9.5	
473	WWFCZ2	M	MID-FLOOD	18-Aug-06	17:34	31.40	28.3	5.66	5.53	5.71	91.3	90.5	8.3	28.4	3.6	3.6	3.6	7.0	
474	WWFCZ2	B	MID-FLOOD	18-Aug-06			28.2	5.48	5.41	5.45	89.7	86.6	8.3	30.9	3.7	3.7	3.6	6.5	8.3
475	WFCZR1	S	MID-FLOOD	18-Aug-06			28.5	5.69	5.61	5.57	92.6	91.7	8.3	22.4	2.2	2.3	3.6	4.5	
476	WFCZR1	M	MID-FLOOD	18-Aug-06			28.3	5.57	5.42	5.57	90.5	90.1	8.3	21.6	2.9	2.9	3.6	9.0	
477	WFCZR1	B	MID-FLOOD	18-Aug-06	17:22	37.40	28.3	5.63	5.58	5.61	88.7	86.4	8.3	22.7	6.1	6.1	3.7	8.5	7.7
478	WFCZR2	S	MID-FLOOD	18-Aug-06			28.7	5.72	5.63	5.75	90.3	88.6	8.3	21.8	3.2	3.2	3.7	7.0	
479	WFCZR2	M	MID-FLOOD	18-Aug-06			28.6	5.83	5.81	5.75	87.2	86.5	8.3	22.4	3.8	3.8	3.8	4.5	
480	WFCZR2	B	MID-FLOOD	18-Aug-06			28.6	5.54	5.39	5.47	85.4	84.1	8.3	29.6	3.5	3.6	3.5	10.5	7.3
481	WWA1	S	MID-EBB	21-Aug-06	14:07	8.70	29.2	5.80	5.77	5.70	89.2	88.5	8.3	22.8	3.4	3.2	4.1	7.5	
482	WWA1	M	MID-EBB	21-Aug-06			29.1	5.62	5.59	5.70	86.7	86.2	8.3	22.8	5.3	5.5	4.1	6.0	
483	WWA1	B	MID-EBB	21-Aug-06			29.0	5.48	5.45	5.47	86.2	85.8	8.3	22.9	3.7	3.6	4.1	7.5	7.0
484	WWA2	S	MID-EBB	21-Aug-06			29.5	5.86	5.83	5.47	92.7	90.4	8.3	21.9	3.2	3.2	4.1	6.5	

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Water Quality Impact Monitoring - August 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
485	WWA2	M	MID-EBB	21-Aug-06	13:59	9.50	29.4	5.70	5.65	5.77	89.3	88.6	8.3	22.5	3.8	3.6	3.5	7.5	
486	WWA2	B	MID-EBB	21-Aug-06			29.4	5.52	5.48	5.50	89.7	89.0	8.3	22.3	3.7	3.5	3.5	7.0	7.0
487	WWA3	S	MID-EBB	21-Aug-06			30.2	5.80	5.74	5.50	89.0	89.5	8.3	17.2	2.7	3.1	3.5	6.0	
488	WWA3	M	MID-EBB	21-Aug-06			29.6	5.61	5.54	5.67	86.0	85.7	8.3	21.7	2.9	2.8	3.1	8.0	
489	WWA3	B	MID-EBB	21-Aug-06	13:45	9.70	29.6	5.47	5.42	5.45	86.7	86.4	8.3	21.9	3.6	3.6	3.1	8.5	7.5
490	WRA1	S	MID-EBB	21-Aug-06			29.4	5.86	5.82	5.67	93.6	91.2	8.2	22.7	3.2	3.5	3.5	6.5	
491	WRA1	M	MID-EBB	21-Aug-06			28.0	5.70	5.64	5.76	84.1	82.0	8.2	26.1	6.9	6.7	3.8	7.0	
492	WRA1	B	MID-EBB	21-Aug-06			27.5	5.52	5.48	5.50	84.6	80.3	8.2	28.8	8.1	7.5	6.0	10.5	8.0
493	WRA2	S	MID-EBB	21-Aug-06	13:14	28.80	29.2	5.90	5.84	5.84	94.5	91.6	8.2	22.3	3.1	3.4	3.8	11.0	
494	WRA2	M	MID-EBB	21-Aug-06			28.4	5.71	5.66	5.78	86.0	84.0	8.2	26.0	6.2	5.4	3.8	10.0	
495	WRA2	B	MID-EBB	21-Aug-06			29.4	5.50	5.47	5.49	85.1	84.5	8.2	22.2	7.3	6.4	5.3	10.5	10.5
496	WRA3	S	MID-EBB	21-Aug-06			28.9	5.84	5.79	5.49	88.3	86.0	8.3	22.5	3.0	3.0	3.8	8.5	
497	WRA3	M	MID-EBB	21-Aug-06	13:27	25.90	28.4	5.66	5.61	5.73	84.2	82.1	8.3	25.7	6.4	6.2	3.8	10.5	
498	WRA3	B	MID-EBB	21-Aug-06			27.9	5.47	5.40	5.44	81.2	78.9	8.3	27.4	6.9	6.1	5.3	12.0	10.3
499	WWFCZ1	S	MID-EBB	21-Aug-06			28.6	5.98	5.90	5.82	96.8	97.7	8.3	23.0	3.9	3.2	3.8	11.0	
500	WWFCZ1	M	MID-EBB	21-Aug-06			28.3	5.74	5.67	5.82	88.4	86.3	8.3	25.2	4.9	4.9	3.8	9.0	
501	WWFCZ1	B	MID-EBB	21-Aug-06	12:14	32.60	27.9	5.50	5.42	5.46	80.0	79.2	8.3	27.0	5.8	5.4	4.7	9.5	9.8
502	WWFCZ2	S	MID-EBB	21-Aug-06			28.9	5.96	5.92	5.82	87.4	87.2	8.3	22.8	3.0	2.9	3.8	9.5	
503	WWFCZ2	M	MID-EBB	21-Aug-06			28.1	5.76	5.71	5.84	87.6	86.4	8.3	26.6	5.6	5.8	5.6	8.5	
504	WWFCZ2	B	MID-EBB	21-Aug-06			27.7	5.60	5.57	5.59	81.7	80.2	8.3	27.7	8.7	7.5	5.6	13.0	10.3
505	WFCZR1	S	MID-EBB	21-Aug-06	12:00	37.40	29.2	5.96	5.92	5.82	84.1	82.0	8.3	22.3	3.2	3.4	3.8	10.5	
506	WFCZR1	M	MID-EBB	21-Aug-06			29.1	5.78	5.70	5.84	89.2	87.0	8.3	22.5	3.6	3.5	3.8	16.0	
507	WFCZR1	B	MID-EBB	21-Aug-06			29.0	5.54	5.49	5.52	82.6	80.7	8.3	22.5	8.2	7.5	4.9	10.0	12.2
508	WFCZR2	S	MID-EBB	21-Aug-06			28.8	5.93	5.89	5.79	97.9	96.9	8.3	23.0	2.9	3.2	3.8	10.5	
509	WFCZR2	M	MID-EBB	21-Aug-06	12:42	38.20	28.2	5.70	5.62	5.79	86.4	85.6	8.3	26.1	4.8	4.5	4.1	17.0	
510	WFCZR2	B	MID-EBB	21-Aug-06			27.5	5.54	5.50	5.52	85.6	80.5	8.3	28.9	11.1	9.7	6.0	18.0	15.2
511	WWA1	S	MID-FLOOD	21-Aug-06			28.8	5.94	5.90	5.82	95.7	94.6	8.4	21.6	2.4	2.7	3.8	7.0	
512	WWA1	M	MID-FLOOD	21-Aug-06			28.5	5.88	5.82	5.89	90.3	88.8	8.4	23.6	2.7	2.6	3.8	10.5	

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Water Quality Impact Monitoring - August 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
526	WWFCZ1	S	MID-FLOOD	21-Aug-06	18:44	33.80	28.6	5.96	5.90	5.85	96.9	96.0	8.4	21.1	2.4	2.7	3.5	7.0	7.3
530	WWFCZ1	M	MID-FLOOD	21-Aug-06			27.5	5.80	5.75		87.5	83.1	8.3	29.0	3.7	3.5		7.0	
531	WWFCZ1	B	MID-FLOOD	21-Aug-06			26.9	5.63	5.56		80.0	78.4	8.3	30.6	4.5	4.4		8.0	
532	WWFCZ2	S	MID-FLOOD	21-Aug-06	18:23	32.50	28.5	5.90	5.86	5.80	92.6	92.2	8.3	21.4	3.2	3.3	3.7	9.0	8.0
533	WWFCZ2	M	MID-FLOOD	21-Aug-06			27.3	5.74	5.69		87.4	81.1	8.3	29.3	4.0	4.1		7.0	
534	WWFCZ2	B	MID-FLOOD	21-Aug-06			26.9	5.51	5.47		80.4	78.8	8.3	30.2	3.9	3.7		8.0	
535	WFCZR1	S	MID-FLOOD	21-Aug-06	18:59	36.40	26.7	5.94	5.88	5.77	96.9	97.0	8.3	20.9	2.1	2.1	3.8	5.5	7.6
536	WFCZR1	M	MID-FLOOD	21-Aug-06			27.2	5.67	5.60		87.2	82.1	8.3	29.7	4.4	4.4		9.5	
537	WFCZR1	B	MID-FLOOD	21-Aug-06			26.6	5.48	5.40		80.4	79.1	8.3	30.7	5.2	4.4		8.5	
538	WFCZR2	S	MID-FLOOD	21-Aug-06	18:09	38.10	28.6	5.98	5.90	5.89	96.9	96.0	8.3	21.2	2.7	2.7	3.5	8.0	8.2
539	WFCZR2	M	MID-FLOOD	21-Aug-06			27.2	5.84	5.82		88.1	86.7	8.3	29.6	3.9	3.6		9.5	
540	WFCZR2	B	MID-FLOOD	21-Aug-06			27.0	5.66	5.61		84.0	82.1	8.3	30.3	4.2	4.1		7.0	
541	WWA1	S	MID-EBB	23-Aug-06	13:27	8.50	29.1	5.99	5.97	5.91	100.1	100.0	8.0	23.3	4.4	4.2	5.2	13.0	14.3
542	WWA1	M	MID-EBB	23-Aug-06			28.5	5.86	5.82		96.1	93.7	8.0	24.7	5.1	5.2		16.0	
543	WWA1	B	MID-EBB	23-Aug-06			28.4	5.70	5.66		94.6	93.5	8.0	25.0	6.1	6.0		14.0	
544	WWA2	S	MID-EBB	23-Aug-06	13:13	9.20	29.1	6.02	5.98	5.90	101.5	99.3	8.0	24.3	4.2	4.2	5.0	15.5	16.0
545	WWA2	M	MID-EBB	23-Aug-06			29.1	5.82	5.79		98.2	97.8	8.0	24.8	6.5	6.2		18.5	
546	WWA2	B	MID-EBB	23-Aug-06			29.0	5.80	5.88		101.4	102.9	8.0	24.7	4.5	4.2		14.0	
547	WWA3	S	MID-EBB	23-Aug-06	13:00	9.50	29.4	6.04	6.00	5.94	101.3	100.1	8.0	22.8	6.2	6.0	5.4	14.0	15.2
548	WWA3	M	MID-EBB	23-Aug-06			28.9	5.88	5.84		97.7	96.6	8.0	24.6	4.5	4.5		15.5	
549	WWA3	B	MID-EBB	23-Aug-06			28.9	5.60	5.58		95.7	95.1	8.0	24.7	5.6	5.4		16.0	
550	WRA1	S	MID-EBB	23-Aug-06	13:45	28.40	29.1	6.05	5.98	5.93	101.2	103.0	8.0	22.7	4.3	4.1	4.9	6.5	12.2
551	WRA1	M	MID-EBB	23-Aug-06			28.3	5.88	5.84		90.7	88.4	8.0	25.5	6.1	6.1		8.5	
552	WRA1	B	MID-EBB	23-Aug-06			27.6	5.60	5.52		80.2	78.6	8.0	27.9	4.3	4.2		19.5	
553	WRA2	S	MID-EBB	23-Aug-06	13:57	25.30	29.0	5.99	5.94	5.86	102.3	100.6	8.0	23.2	4.2	4.1	5.3	8.5	10.8
554	WRA2	M	MID-EBB	23-Aug-06			28.4	5.78	5.71		85.7	83.2	8.0	25.0	5.9	5.3		9.5	
555	WRA2	B	MID-EBB	23-Aug-06			28.1	5.56	5.50		80.9	78.4	8.0	26.5	6.2	6.1		14.5	
556	WRA3	S	MID-EBB	23-Aug-06	14:10	25.20	29.1	6.03	5.99	5.91	101.8	100.7	8.0	22.8	4.0	4.1	5.3	10.0	10.8
557	WRA3	M	MID-EBB	23-Aug-06			28.3	5.82	5.79		91.2	89.3	8.0	24.8	5.2	5.5		9.5	
558	WRA3	B	MID-EBB	23-Aug-06			27.8	5.53	5.48		82.9	79.5	8.0	27.5	6.9	6.1		13.0	
559	WWFCZ1	S	MID-EBB	23-Aug-06	14:53	31.90	28.9	5.97	5.90	5.85	100.6	99.2	7.8	22.9	5.4	5.1	5.4	12.5	14.3
560	WWFCZ1	M	MID-EBB	23-Aug-06			28.4	5.80	5.74		92.8	91.1	7.8	24.5	7.4	6.2		14.0	
561	WWFCZ1	B	MID-EBB	23-Aug-06			27.8	5.60	5.53		86.2	82.9	7.8	28.9	4.1	4.0		16.5	
562	WWFCZ2	S	MID-EBB	23-Aug-06	14:38	32.70	29.1	6.02	5.98	5.88	101.3	98.4	7.8	22.9	4.9	4.2	5.2	15.0	15.0
563	WWFCZ2	M	MID-EBB	23-Aug-06			28.1	5.79	5.73		87.3	85.4	7.8	25.9	6.2	5.8		11.5	
564	WWFCZ2	B	MID-EBB	23-Aug-06			27.2	5.50	5.44		84.8	80.9	7.8	27.9	5.2	5.2		8.5	
565	WFCZR1	S	MID-EBB	23-Aug-06	15:09	36.30	29.0	5.94	5.89	5.81	99.6	97.4	7.8	23.1	4.6	4.1	5.3	10.0	12.0
566	WFCZR1	M	MID-EBB	23-Aug-06			28.5	5.72	5.67		91.2	90.4	7.6	24.3	6.2	6.1		12.5	
567	WFCZR1	B	MID-EBB	23-Aug-06			27.8	5.53	5.47		87.3	83.8	7.8	27.0	5.1	5.4		13.5	
568	WFCZR2	S	MID-EBB	23-Aug-06	14:22	39.50	28.9	5.96	5.90	5.85	100.4	98.0	7.9	22.7	5.6	5.1	5.9	13.5	12.5
569	WFCZR2	M	MID-EBB	23-Aug-06			28.1	5.79	5.74		92.7	90.1	7.8	24.5	6.2	6.0		12.0	
570	WFCZR2	B	MID-EBB	23-Aug-06			28.1	5.60	5.52		89.4	87.6	7.8	24.6	6.2	6.1		12.0	
571	WWA1	S	MID-FLOOD	23-Aug-06	8:27	9.20	28.0	5.88	5.82	5.75	91.5	89.5	7.7	27.1	3.8	3.2	3.5	10.5	8.5
572	WWA1	M	MID-FLOOD	23-Aug-06			27.9	5.68	5.62		87.5	85.0	7.7	27.8	2.8	2.5		8.5	

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Water Quality Impact Monitoring - August 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
573	WWA1	B	MID-FLOOD	23-Aug-06	8:13	9.50	27.7	5.50	5.47	5.49	82.6	79.5	7.7	28.3	5.9	5.2	3.9	11.5	10.2
574	WWA2	S	MID-FLOOD	23-Aug-06			28.3	5.86	5.80		91.5	89.1	7.7	27.2	3.3	3.2		5.5	
575	WWA2	M	MID-FLOOD	23-Aug-06			28.0	5.64	5.59		86.7	84.7	7.7	28.1	3.0	2.9		7.5	
576	WWA2	B	MID-FLOOD	23-Aug-06	8:00	10.70	27.8	5.49	5.41	5.45	84.0	81.2	7.7	28.4	5.4	5.3	3.8	6.5	6.5
577	WWA3	S	MID-FLOOD	23-Aug-06			28.1	5.88	5.79		90.8	88.2	7.7	27.7	3.3	3.2		8.0	
578	WWA3	M	MID-FLOOD	23-Aug-06			27.6	5.67	5.59		83.2	79.9	7.7	28.9	3.8	3.3		11.5	
579	WWA3	B	MID-FLOOD	23-Aug-06	8:43	28.20	27.4	5.48	5.46	5.47	81.9	79.6	7.7	29.0	4.4	4.2	3.7	8.5	9.3
580	WRA1	S	MID-FLOOD	23-Aug-06			28.5	5.89	5.84		93.3	92.5	7.6	26.1	3.4	3.4		7.0	
581	WRA1	M	MID-FLOOD	23-Aug-06			27.4	5.70	5.63		86.1	82.9	7.6	29.7	6.4	6.2		17.0	
582	WRA1	B	MID-FLOOD	23-Aug-06	8:59	24.90	27.1	5.56	5.45	5.51	81.1	79.2	7.6	30.1	5.3	5.1	5.0	11.5	11.8
583	WRA2	S	MID-FLOOD	23-Aug-06			28.3	5.93	5.91		92.3	91.2	7.5	26.5	4.4	4.2		11.0	
584	WRA2	M	MID-FLOOD	23-Aug-06			27.6	5.80	5.78		86.2	84.1	7.5	29.0	4.9	4.2		14.0	
585	WRA2	B	MID-FLOOD	23-Aug-06	9:00	26.30	27.2	5.61	5.54	5.58	84.7	80.0	7.5	29.8	4.6	4.1	4.4	13.5	12.8
586	WRA3	S	MID-FLOOD	23-Aug-06			28.7	5.88	5.80		91.3	90.8	7.5	26.0	2.9	2.8		6.5	
587	WRA3	M	MID-FLOOD	23-Aug-06			26.1	5.71	5.68		88.9	85.4	7.5	27.8	3.2	3.1		10.5	
588	WRA3	B	MID-FLOOD	23-Aug-06	9:48	32.30	27.4	5.52	5.48	5.50	88.7	82.8	7.5	29.2	5.1	5.1	3.7	11.5	9.5
589	WWFCZ1	S	MID-FLOOD	23-Aug-06			28.1	5.80	5.77		89.1	86.8	7.8	27.1	2.8	2.8		8.5	
590	WWFCZ1	M	MID-FLOOD	23-Aug-06			27.6	5.60	5.54		83.6	81.3	7.8	28.7	3.4	3.2		11.5	
591	WWFCZ1	B	MID-FLOOD	23-Aug-06	9:35	31.60	27.3	5.43	5.40	5.42	79.8	78.4	7.8	29.0	3.1	3.1	3.1	17.0	12.3
592	WWFCZ2	S	MID-FLOOD	23-Aug-06			27.8	5.87	5.82		90.5	87.9	7.9	27.5	3.3	3.1		8.0	
593	WWFCZ2	M	MID-FLOOD	23-Aug-06			27.4	5.70	5.64		85.7	80.9	7.9	29.4	5.1	5.1		9.0	
594	WWFCZ2	B	MID-FLOOD	23-Aug-06	10:01	35.40	27.1	5.50	5.47	5.49	81.3	78.2	7.9	29.8	4.8	4.8	4.4	10.5	9.2
595	WFCZR1	S	MID-FLOOD	23-Aug-06			28.3	5.84	5.80		89.9	88.1	7.6	25.8	3.9	3.7		6.0	
596	WFCZR1	M	MID-FLOOD	23-Aug-06			27.4	5.66</											

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Water Quality Impact Monitoring - August 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp, °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
617	WRA3	M	MID-EBB	25-Aug-06	14:41	24.70	27.9	5.66	5.62	5.77	83.3	81.9	8.3	25.6	6.5	6.2	5.4	14.0	
618	WRA3	B	MID-EBB	25-Aug-06			27.8	5.47	5.40	5.44	80.0	79.2	8.3	27.3	4.4	4.3	5.4	12.5	13.2
619	WWFCZ1	S	MID-EBB	25-Aug-06			28.4	5.88	5.80		96.2	97.5	8.4	21.7	5.7	5.1		11.5	
620	WWFCZ1	M	MID-EBB	25-Aug-06	15:20	33.80	28.4	5.76	5.70	5.79	89.1	87.9	8.4	24.0	5.7	5.5	5.2	14.0	
621	WWFCZ1	B	MID-EBB	25-Aug-06			28.5	5.51	5.48	5.50	90.9	87.3	8.4	24.2	4.4	4.7	5.2	17.0	14.2
622	WWFCZ2	S	MID-EBB	25-Aug-06			28.7	5.94	5.88		98.9	98.0	8.4	21.8	4.7	4.5		12.5	
623	WWFCZ2	M	MID-EBB	25-Aug-06	15:08	34.20	28.3	5.79	5.69	5.83	89.9	87.0	8.4	24.6	7.1	7.4	6.0	16.5	
624	WWFCZ2	B	MID-EBB	25-Aug-06			27.8	5.52	5.45	5.49	85.8	83.6	8.4	26.4	6.2	6.1	6.0	18.5	15.8
625	WFCZR1	S	MID-EBB	25-Aug-06			28.8	6.03	5.98		99.7	98.7	8.4	21.5	5.2	5.2		10.0	
626	WFCZR1	M	MID-EBB	25-Aug-06	15:34	40.00	28.5	5.84	5.76	5.90	89.4	85.6	8.4	23.4	6.2	6.0	5.7	11.5	
627	WFCZR1	B	MID-EBB	25-Aug-06			28.4	5.60	5.51	5.56	86.7	85.1	8.4	24.2	5.7	5.8	5.7	18.0	13.2
628	WFCZR2	S	MID-EBB	25-Aug-06			28.6	5.86	5.78		98.9	97.6	8.4	21.9	4.3	4.3		12.0	
629	WFCZR2	M	MID-EBB	25-Aug-06	14:54	39.60	28.8	5.60	5.55	5.70	95.3	94.6	8.4	24.0	5.7	5.4	5.3	12.0	
630	WFCZR2	B	MID-EBB	25-Aug-06			28.2	5.47	5.41	5.44	86.1	82.9	8.4	25.2	6.0	6.1	5.3	13.0	12.3
631	WWA1	S	MID-FLOOD	25-Aug-06			28.2	5.89	5.84		91.7	89.7	8.2	25.2	5.1	5.1		9.5	
632	WWA1	M	MID-FLOOD	25-Aug-06	8:56	7.30	28.3	5.69	5.64	5.77	88.8	87.4	8.2	25.2	4.5	4.2	4.3	11.5	
633	WWA1	B	MID-FLOOD	25-Aug-06			28.1	5.54	5.48	5.51	87.9	86.4	8.2	26.7	3.4	3.4	4.3	11.5	10.8
634	WWA2	S	MID-FLOOD	25-Aug-06			28.2	5.96	5.86		93.2	92.3	8.2	25.2	3.7	3.1		9.5	
635	WWA2	M	MID-FLOOD	25-Aug-06	8:44	9.60	28.0	5.70	5.64	5.79	89.4	87.8	8.2	26.0	4.1	4.2	3.7	12.5	12.7
636	WWA2	B	MID-FLOOD	25-Aug-06			27.8	5.52	5.47	5.50	88.6	85.8	8.2	27.0	3.6	3.6	4.5	12.5	
637	WWA3	S	MID-FLOOD	25-Aug-06			28.1	5.94	5.86		91.0	88.8	8.2	25.7	3.9	3.6		14.5	
638	WWA3	M	MID-FLOOD	25-Aug-06	8:30	7.50	27.9	5.76	5.68	5.81	86.0	83.9	8.2	26.6	6.3	6.1	4.3	21.0	
639	WWA3	B	MID-FLOOD	25-Aug-06			27.9	5.56	5.47	5.52	86.6	84.5	8.2	26.7	2.9	2.9	4.3	21.5	19.0
640	WRA1	S	MID-FLOOD	25-Aug-06			28.5	5.88	5.70		91.0	89.6	8.2	24.5	4.2	4.2		15.0	
641	WRA1	M	MID-FLOOD	25-Aug-06	9:14	32.80	27.9	5.64	5.56	5.70	85.2	82.4	8.2	27.4	5.5	5.7	4.3	14.5	
642	WRA1	B	MID-FLOOD	25-Aug-06			27.7	5.51	5.49	5.50	84.4	81.9	8.2	27.7	3.1	3.4	4.3	13.5	14.3
643	WRA2	S	MID-FLOOD	25-Aug-06			28.1	5.86	5.80		90.9	88.7	8.2	25.1	4.4	4.3		11.0	
644	WRA2	M	MID-FLOOD	25-Aug-06	9:27	25.30	27.8	5.75	5.69	5.78	84.9	82.6	8.2	27.4	4.9	4.8	4.5	12.5	11.8
645	WRA2	B	MID-FLOOD	25-Aug-06			27.6	5.49	5.42	5.46	85.7	82.7	8.2	27.9	4.5	4.4	4.5	12.0	
646	WRA3	S	MID-FLOOD	25-Aug-06			28.1	5.85	5.80		90.1	88.0	8.2	24.7	4.8	4.5		12.0	
647	WRA3	M	MID-FLOOD	25-Aug-06	9:39	24.90	27.8	5.70	5.63	5.75	85.8	82.6	8.2	27.7	5.9	5.6	5.2	17.0	
648	WRA3	B	MID-FLOOD	25-Aug-06			27.6	5.53	5.47	5.50	80.3	79.6	8.2	27.9	5.2	5.2	5.2	8.5	12.5
649	WWFCZ1	S	MID-FLOOD	25-Aug-06			28.1	5.85	5.79		98.1	86.4	8.2	24.6	2.7	2.7		9.5	
650	WWFCZ1	M	MID-FLOOD	25-Aug-06	10:20	34.60	27.8	5.64	5.58	5.72	88.4	85.2	8.2	27.2	4.3	4.2	4.4	15.0	
651	WWFCZ1	B	MID-FLOOD	25-Aug-06			27.6	5.50	5.44	5.47	84.6	81.6	8.2	28.0	6.5	6.2	4.4	15.0	13.2
652	WWFCZ2	S	MID-FLOOD	25-Aug-06			28.2	5.86	5.81		90.9	88.8	8.2	24.6	3.6	3.5		11.5	
653	WWFCZ2	M	MID-FLOOD	25-Aug-06	10:07	35.20	27.7	5.72	5.60	5.75	83.7	83.9	8.2	27.8	5.6	5.5	4.7	13.0	14.2
654	WWFCZ2	B	MID-FLOOD	25-Aug-06			27.6	5.51	5.47	5.49	85.4	82.4	8.2	27.9	5.1	5.1	4.7	18.0	
655	WFCZR1	S	MID-FLOOD	25-Aug-06			27.9	5.80	5.73		89.9	86.9	8.3	23.6	5.7	5.6		14.0	
656	WFCZR1	M	MID-FLOOD	25-Aug-06	10:34	41.80	27.6	5.60	5.56	5.67	85.5	84.0	8.3	27.9	6.0	6.2	5.0	13.0	
657	WFCZR1	B	MID-FLOOD	25-Aug-06			27.4	5.47	5.42	5.45	83.3	81.1	8.3	28.4	3.1	3.2	5.0	12.0	13.0
658	WFCZR2	S	MID-FLOOD	25-Aug-06			28.3	5.81	5.85		92.8	89.5	8.3	24.7	5.4	5.2		9.5	
659	WFCZR2	M	MID-FLOOD	25-Aug-06	9:52	39.70	27.6	5.76	5.68	5.80	88.8	85.3	8.3	26.4	6.4	6.3	6.0	14.0	
660	WFCZR2	B	MID-FLOOD	25-Aug-06			27.6	5.51	5.48	5.50	85.5	83.1	8.3	28.0	6.4	6.2	6.0	15.5	13.0

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Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp, °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
661	WWA1	S	MID-EBB	28-Aug-06			28.3	5.86	5.82		89.4	88.7	8.1	23.5	4.2	4.1		3.8	
662	WWA1	M	MID-EBB	28-Aug-06	15:32	7.20	28.0	5.79	5.69	5.79	84.7	83.6	8.1	25.2	5.6	5.5	4.9	10.0	6.4
663	WWA1	B	MID-EBB	28-Aug-06			27.8	5.50	5.45	5.48	83.9	82.1	8.1	25.9	5.2	4.9	4.9	5.5	
664	WWA2	S	MID-EBB	28-Aug-06			28.2	5.76	5.74		89.5	87.6	8.0	24.1	3.2	3.2		10.0	
665	WWA2	M	MID-EBB	28-Aug-06	15:16	8.10	28.2	5.60	5.55	5.66	88.3	85.4	8.0	24.3	4.1	4.1	3.8	10.0	
666	WWA2	B	MID-EBB	28-Aug-06			28.1	5.49	5.43	5.46	87.8	85.0	8.0	24.9	4.2	4.1	3.8	7.5	9.2
667	WWA3	S	MID-EBB	28-Aug-06			28.3	5.90	5.82		94.2	90.4	8.0	25.0	3.9	3.7		8.0	
668	WWA3	M	MID-EBB	28-Aug-06	15:00	7.40	28.1	5.84	5.76	5.83	88.1	85.4	8.0	25.2	4.4	4.2	4.5	9.0	
669	WWA3	B	MID-EBB	28-Aug-06			27.9	5.60	5.53	5.57	89.2	85.4	8.0	25.4	5.4	5.3	4.5	9.0	8.7
670	WRA1	S	MID-EBB	28-Aug-06			28.5	5.92	5.87		93.6	90.4	8.0	22.7	4.5	4.1		8.5	
671	WRA1	M	MID-EBB	28-Aug-06	15:45	28.60	27.5	5.79	5.64	5.81	86.7	84.3	8.0	26.3	6.1	6.0	5.2	11.5	
672	WRA1	B	MID-EBB	28-Aug-06			27.7	5.66	5.53	5.60	84.8	82.1	8.0	28.6	5.4	5.3	5.2	10.5	10.2
673	WRA2	S	MID-EBB	28-Aug-06			29.7	5.86	5.77		90.7	88.6	8.0	21.4	4.7	4.3		9.5	
674	WRA2	M	MID-EBB	28-Aug-06	15:59	23.90	27.6	5.79	5.65	5.77	87.8	84.1	8.0	26.6	4.2	4.2	4.6	8.0	
675	WRA2	B	MID-EBB	28-Aug-06			27.1	5.60	5.52	5.56	88.1	84.6	8.0	28.7	5.1	5.3	4.6	8.5	8.7
676	WRA3	S	MID-EBB	28-Aug-06			28.6	5.92	5.87		89.2	86.8	8.0	21.9	3.9	3.2		6.5	
677	WRA3	M	MID-EBB	28-Aug-06	16:13	23.50	27.7	5.74	5.67	5.80	87.9	86.2	8.0	26.7	5.4	5.2	4.3	11.0	
678	WRA3	B	MID-EBB	28-Aug-06			27.3	5.58	5.51	5.55	85.1	83.8	8.0	28.3	4.2	4.2	4.3	6.0	7.8
679	WWFCZ1	S	MID-EBB	28-Aug-06			28.3	5.84	5.80		91.4	88.9	8.0	22.8	4.4	4.6		11.5	
680	WWFCZ1	M	MID-EBB	28-Aug-06	16:53	33.80	27.6	5.76	5.60	5.75	86.4	84.3	8.0	26.9	4.6	4.7	5.6	6.5	
681	WWFCZ1	B	MID-EBB	28-Aug-06			27.2	5.64	5.51	5.58	81.6	79.4	8.0	28.5	7.5	7.7	5.6	7.0	8.3
682	WWFCZ2	S	MID-EBB	28-Aug-06			28.4	5.86	5.72		89.6	87.2	8.1	22.8	4.1	4.1		7.0	
683	WWFCZ2	M	MID-EBB	28-Aug-06	16:29	32.50	27.2	5.61	5.56	5.89	87.0	85.4	8.1	28.0	6.9	6.9	6.1	7.5	
684	WWFCZ2	B	MID-EBB	28-Aug-06			27.2	5.47	5.42	5.45	84.8	82.0	8.1	28.7	7.5	7.1	6.1	11.0	8.5
685	WFCZR1	S	MID-EBB	28-Aug-06			28.5	5.84	5.76		88.6	87.1	8.1	22.4	4.8	4.7		8.5	
686	WFCZR1	M	MID-EBB	28-Aug-06	17:08	38.60	27.6	5.70	5.64	5.74	85.0	84.4	8.1	26.6	5.0	5.1	4.7	10.0	
687	WFCZR1	B	MID-EBB	28-Aug-06			27.0	5.50	5.43	5.47	80.8	80.0							

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Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
705	WRA2	B	MID-FLOOD	28-Aug-06			27.0	5.54	5.47	5.51	83.2	81.5	8.2	28.3	6.6	6.1	5.7	8.5	11.0
706	WRA3	S	MID-FLOOD	28-Aug-06			27.4	5.66	5.80		93.2	86.9	8.2	26.8	4.1	4.6		12.0	
707	WRA3	M	MID-FLOOD	28-Aug-06	10:20	24.10	26.8	5.74	5.66	5.77	90.1	84.1	8.2	29.0	3.0	3.2	4.0	14.0	
708	WRA3	B	MID-FLOOD	28-Aug-06			26.9	5.50	5.45	5.48	89.4	86.0	8.2	28.5	4.6	4.5		11.5	12.5
709	WWFCZ1	S	MID-FLOOD	28-Aug-06			27.3	5.89	5.83		93.3	91.7	8.2	25.9	4.6	4.2		13.5	
710	WWFCZ1	M	MID-FLOOD	28-Aug-06	9:56	34.20	27.3	5.66	5.60	5.75	87.4	85.1	8.2	26.2	8.7	7.3		13.0	
711	WWFCZ1	B	MID-FLOOD	28-Aug-06			27.1	5.83	5.52	5.58	83.5	80.7	8.2	28.3	6.7	6.2	6.3	14.0	13.5
712	WWFCZ2	S	MID-FLOOD	28-Aug-06			27.9	5.84	5.79		91.6	89.0	8.2	23.8	6.1	5.9		14.5	
713	WWFCZ2	M	MID-FLOOD	28-Aug-06	9:43	33.60	27.5	5.64	5.57	5.71	90.9	85.5	8.2	26.2	3.1	3.2		13.0	
714	WWFCZ2	B	MID-FLOOD	28-Aug-06			27.2	5.60	5.51	5.56	89.0	84.1	8.3	25.2	3.4	3.4	4.2	18.5	15.3
715	WFCZR1	S	MID-FLOOD	28-Aug-06			28.0	5.80	5.74		88.9	86.7	8.2	27.2	3.2	4.5		6.0	
716	WFCZR1	M	MID-FLOOD	28-Aug-06	9:30	39.10	27.2	5.62	5.56	5.68	83.5	82.1	8.2	28.4	6.1	6.1		20.0	
717	WFCZR1	B	MID-FLOOD	28-Aug-06			26.7	5.58	5.46	5.52	82.6	80.0	8.2	29.5	4.4	4.2	4.7	20.5	15.5
718	WFCZR2	S	MID-FLOOD	28-Aug-06			28.4	5.84	5.79		89.4	86.9	8.2	21.0	4.8	4.2		15.5	
719	WFCZR2	M	MID-FLOOD	28-Aug-06	10:08	40.00	27.4	5.81	5.71	5.79	88.7	85.9	8.2	27.4	6.2	6.4		17.0	
720	WFCZR2	B	MID-FLOOD	28-Aug-06			26.8	5.79	5.60	5.70	83.1	81.2	8.2	28.4	5.1	5.0	5.3	18.0	16.8
721	WWA1	S	MID-EBB	30-Aug-06			29.2	5.87	5.80		93.5	86.5	8.3	19.0	2.2	2.3		3.3	
722	WWA1	M	MID-EBB	30-Aug-06	16:18	7.10	29.0	5.79	5.71	5.79	87.4	87.0	8.3	17.9	3.0	2.9		5.0	
723	WWA1	B	MID-EBB	30-Aug-06			28.9	5.60	5.53	5.57	86.5	82.7	8.3	20.0	2.5	2.5	2.6	5.5	4.6
724	WWA2	S	MID-EBB	30-Aug-06			29.1	5.86	5.72		91.3	90.6	8.3	20.0	2.5	2.7		4.0	
725	WWA2	M	MID-EBB	30-Aug-06	16:07	7.80	29.0	5.79	5.71	5.77	85.9	84.2	8.3	21.5	3.1	3.2		5.5	
726	WWA2	B	MID-EBB	30-Aug-06			28.9	5.66	5.58	5.62	86.3	85.3	8.3	23.8	3.0	3.1	2.9	6.0	5.2
727	WWA3	S	MID-EBB	30-Aug-06			29.1	5.87	5.76		89.3	87.1	8.3	21.0	2.4	2.5		3.5	
728	WWA3	M	MID-EBB	30-Aug-06	16:00	7.50	29.1	5.69	5.52	5.71	88.4	87.6	8.3	24.6	3.6	3.2		5.0	
729	WWA3	B	MID-EBB	30-Aug-06			28.9	5.38	5.31	5.35	87.5	87.1	8.3	25.7	2.7	2.5	2.8	4.0	4.2
730	WRA1	S	MID-EBB	30-Aug-06			29.1	5.79	5.77		89.3	88.2	8.3	19.0	2.3	2.5		4.0	
731	WRA1	M	MID-EBB	30-Aug-06	16:29	28.30	29.0	5.64	5.53	5.68	88.6	87.3	8.3	25.2	3.4	3.5		7.5	
732	WRA1	B	MID-EBB	30-Aug-06			29.0	5.76	5.69	5.73	85.4	83.9	8.3	26.3	5.2	5.0	3.7	8.0	6.5
733	WRA2	S	MID-EBB	30-Aug-06			29.2	5.86	5.81		89.3	86.6	8.3	20.0	2.5	2.6		3.3	
734	WRA2	M	MID-EBB	30-Aug-06	16:44	24.50	29.1	5.85	5.88	5.85	87.2	86.3	8.3	23.6	2.4	2.8		7.0	
735	WRA2	B	MID-EBB	30-Aug-06			29.1	5.79	5.76	5.78	85.9	84.6	8.3	24.8	3.1	3.7	2.8	10.0	6.8
736	WRA3	S	MID-EBB	30-Aug-06			29.2	5.74	5.68		87.1	86.3	8.3	19.7	2.0	2.0		5.5	
737	WRA3	M	MID-EBB	30-Aug-06	16:57	24.70	29.1	5.59	5.51	5.63	86.8	86.2	8.3	22.8	3.0	2.9		7.0	
738	WRA3	B	MID-EBB	30-Aug-06			29.1	5.62	5.57	5.60	87.5	86.2	8.3	24.7	4.3	4.1	3.0	8.5	7.0
739	WWFCZ1	S	MID-EBB	30-Aug-06			28.7	5.94	5.83		90.3	89.6	8.2	19.2	2.2	2.3		3.5	
740	WWFCZ1	M	MID-EBB	30-Aug-06	17:36	33.50	28.6	5.96	5.72	5.86	89.7	88.2	8.2	24.3	3.4	3.2		7.0	
741	WWFCZ1	B	MID-EBB	30-Aug-06			28.6	5.85	5.81	5.83	88.4	87.1	8.2	26.5	3.1	2.9	2.8	7.5	6.0
742	WWFCZ2	S	MID-EBB	30-Aug-06			28.8	5.89	5.73		89.5	88.1	8.2	18.7	2.8	2.9		5.0	
743	WWFCZ2	M	MID-EBB	30-Aug-06	17:22	33.40	28.7	5.90	5.83	5.84	87.9	87.2	8.2	23.5	4.8	4.5		10.0	
744	WWFCZ2	B	MID-EBB	30-Aug-06			28.7	5.82	5.71	5.77	86.9	85.2	8.2	27.6	3.6	3.7	3.7	6.0	7.0
745	WFCZR1	S	MID-EBB	30-Aug-06			28.9	5.99	5.86		91.7	84.7	8.2	18.1	2.3	2.5		6.5	
746	WFCZR1	M	MID-EBB	30-Aug-06	17:49	37.80	28.3	5.84	5.73	5.86	88.6	84.0	8.2	23.2	2.9	2.8		6.5	
747	WFCZR1	B	MID-EBB	30-Aug-06			27.8	5.58	5.43	5.50	85.3	83.1	8.2	29.2	2.9	2.8	2.7	6.5	6.5
748	WFCZR2	S	MID-EBB	30-Aug-06			29.0	5.84	5.75		88.4	87.6	8.2	19.3	2.8	2.9		10.0	

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Water Quality Impact Monitoring - August 2006

Lab ID	Location	Position	Tide	Sampling Date	Time	Water depth, m	Temp. °C	DO, mg/L (1)	DO, mg/L (2)	DO, Average value	DO, % saturation (1)	DO, % saturation (2)	pH, Unit	Salinity, ppt	Turbidity, NTU (1)	Turbidity, NTU (2)	NTU, Averaged Value	Suspended Solid, mg/L	SS, Averaged Value
749	WFCZR2	M	MID-EBB	30-Aug-06	17:07	38.50	28.9	5.82	5.71	5.78	89.3	88.2	8.2	24.5	3.2	3.2		7.0	
750	WFCZR2	B	MID-EBB	30-Aug-06			28.8	5.88	5.83	5.86	89.4	88.6	8.2	27.3	5.4	5.5	3.8	11.0	9.3
751	WWA1	S	MID-FLOOD	30-Aug-06			29.1	5.92	5.87		92.4	91.5	8.3	21.0	3.2	3.5		6.0	
752	WWA1	M	MID-FLOOD	30-Aug-06	10:27	7.80	29.0	5.93	5.84	5.89	89.2	88.3	8.3	22.4	2.9	2.8		6.0	
753	WWA1	B	MID-FLOOD	30-Aug-06			29.0	5.87	5.79	5.83	87.4	86.3	8.3	27.9	2.9	3.1	3.1	11.0	7.7
754	WWA2	S	MID-FLOOD	30-Aug-06			29.2	5.87	5.66		89.5	88.2	8.3	22.3	2.9	3.1		7.0	
755	WWA2	M	MID-FLOOD	30-Aug-06	10:13	8.70	29.1	5.95	5.83	5.83	89.7	88.3	8.4	24.8	3.5	3.3		8.0	
756	WWA2	B	MID-FLOOD	30-Aug-06			29.1	5.87	5.81	5.84	90.4	89.1	8.4	26.9	4.7	4.7	3.7	11.0	8.7
757	WWA3	S	MID-FLOOD	30-Aug-06			29.1	5.88	5.76		88.3	87.2	8.3	21.8	2.6	2.7		6.5	
758	WWA3	M	MID-FLOOD	30-Aug-06	10:00	7.90	29.0	5.85	5.82	5.83	87.4	86.5	8.3	23.5	2.7	2.7		7.5	
759	WWA3	B	MID-FLOOD	30-Aug-06			29.0	5.89	5.81	5.85	88.3	88.1	8.3	26.7	2.9	2.9	2.8	5.5	6.5
760	WRA1	S	MID-FLOOD	30-Aug-06			29.0	5.76	5.73		89.7	88.1	8.3	21.3	3.1	3.1		5.0	
761	WRA1	M	MID-FLOOD	30-Aug-06	10:40	30.10	28.9	5.84	5.79	5.78	88.4	87.2	8.3	25.4	3.2	3.3		5.5	
762	WRA1	B	MID-FLOOD	30-Aug-06			28.9	5.77	5.72	5.75	86.5	86.3	8.3	25.7	3.1	3.2	3.2	5.0	5.2
763	WRA2	S	MID-FLOOD	30-Aug-06			29.1	5.93	5.82		88.3	87.2	8.3	19.8	3.3	3.2		5.0	
764	WRA2	M	MID-FLOOD	30-Aug-06	10:55	25.80	29.0	5.84	5.82	5.85	87.4	86.5	8.3	22.6	5.8	5.3		7.0	
765	WRA2	B	MID-FLOOD	30-Aug-06			29.0	5.75	5.71	5.73	86.9	85.4	8.3	27.9	5.2	5.2	4.7	8.0	6.7
766	WRA3	S	MID-FLOOD	30-Aug-06			29.1	5.77	5.72		87.3	86.5	8.3	18.5	3.0	2.6		7.5	
767	WRA3	M	MID-FLOOD	30-Aug-06	11:09	25.60	29.0	5.63	5.65	5.68	87.2	86.3	8.3	21.8	3.1	3.2		9.5	
768	WRA3	B	MID-FLOOD	30-Aug-06			28.9	5.71	5.58	5.68	88.5	86.2	8.3	25.3	3.7	3.4	3.1	8.0	8.3
769	WWFCZ1	S	MID-FLOOD	30-Aug-06			28.9	5.84	5.77		89.3	88.5	8.2	20.3	3.0	2.9		4.5	
770	WWFCZ1	M	MID-FLOOD	30-Aug-06	11:54	33.90	28.8	5.95	5.79	5.84	88.7	88.3	8.2	25.7	3.5	3.7		9.0	
771	WWFCZ1	B	MID-FLOOD	30-Aug-06			28.6	5.86	5.83	5.85	87.4	87.1	8.2	28.6	3.5	3.7	3.4	12.5	8.7
772	WWFCZ2	S	MID-FLOOD	30-Aug-06			28.9	5.92	5.88		88.3	87.6	8.2	19.5	2.6	2.7		6.0	
773	WWFCZ2	M	MID-FLOOD	30-Aug-06	11:38	32.50	28.7	5.87	5.84	5.88	88.9	87.3	8.2	24.4	4.5	4.7		9.0	
774	WWFCZ2	B	MID-FLOOD	30-Aug-06			28.7	5.79	5.73	5.76	85.4	84.2	8.2	27.9	5.9	5.7	4.3	11.5	8.8
775	WFCZR1	S	MID-FLOOD	30-Aug-06			29.0	5.86	5.74		90.4	89.8	8.2	19.5	3.2	3.2		7.5	
776	WFCZR1	M	MID-FLOOD	30-Aug-06	12:08	38.40	28.8	5.92	5.										