Chun Wo Construction & Engineering Co Ltd

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

Annual Environmental Monitoring and Audit Review Report for Reclamation Works (EP No EP-219/2005) – March 2006 to February 2007

**Second Issue** 

# Chun Wo Construction & Engineering Co Ltd

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

Annual Environmental Monitoring and Audit Review Report for Reclamation Works (EP No EP-219/2005) – March 2006 to February 2007

August 2007

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

ENSR | AECOM

MAUNSELL AECOM

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# By Fax (2492 6201) and Post

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

Attn: Mr. Michael S Harfoot

23 August 2007

Dear Sir.

Contract No. HY/2005/06
Castle Peak Road Improvement – West of Tsing Lung Tau
Annual EM&A Review Report for Reclamation Works (EP No. EP-219/2005) – March 2006 to
February 2007

We refer to the Annual EM&A Review Report for Reclamation Works (EP No. EP-219/2005) – March 2006 to February 2007 received via emails on 28 June 2007 and 21 August 2007 from Ove Arup & Partners Hong Kong Ltd., the Environmental Team (ET) of Castle Peak Road Improvement – West of Tsing Lung Tau (Remaining Contract).

Having addressed the IEC's comment on 6 July 2007, the Annual EM&A Review Report for Reclamation Works (EP No. EP-219/2005) — March 2006 to February 2007 is verified to be acceptable for onward submission to the Engineer, HyD, EPD and AFCD.

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

Yours faithfully, For and on behalf of ENSR Asia (HK) Ltd.

Y T Tang

Independent Environmental Checker

Encl.

CC

VLHM

Mr. Simon Illingworth

(Fax: 2559 1613)

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# **Executive Summary**

This is the first annual environmental monitoring and audit (EM&A) review report presenting the progress of environmental monitoring and audit works for the reporting period between March 2006 and February 2007. 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 of 4.9 mg/L was recorded at WWA1 on 15 May 2006 and the lowest level for bottom position of 4.7 mg/L was recorded at WWFCZ2 respectively on 15 May 2006. There were 2 exceedances of DO Baseline Check Criteria during the reporting period when compared with the established baseline check criteria in Section 3.3 of this report.

The highest depth-averaged Tby level of 22.1 Nephelometric Turbidity Unit (NTU) was recorded at WWA3 on 09 June 2006. There were 9 exceedances of Tby Baseline Check Criteria, 8 exceedances of Tby Action Level and 29 exceedances of Tby Limit Level during the reporting period when compared with the established baseline check criteria in Section 3.3 of this report.

The highest SS level of 31.0 mg/L was recorded at WWFCZ2 on 08 November 2006. There were 92 exceedances of SS Baseline Check Criteria and 5 exceedance of SS Limit Level during the reporting period when compared with the established baseline check criteria in Section 3.3 of this report.

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

The lowest DO level for surface & middle position of 4.9 mg/L was recorded at WWA1 on 15 May 2006 and the lowest DO level for bottom position of 4.9 mg/L was recorded at WWA1, WWA3 and WWFCZ2 respectively on 15 May 2006. There were 4 exceedances of DO levels during the reporting period when compared with the established baseline check criteria in Section 3.3 of this report.

The highest depth-averaged Tby level of 28.3 NTU was recorded at WWA1 on 04 May 2006. There were 5 exceedances of Tby Baseline Check Criteria, 3 exceedances of Tby Action Level and 13 exceedances of Tby Limit Level during the reporting period when compared with the established baseline check criteria in Section 3.3 of this report.

The highest SS level of 43.8 mg/L was recorded at WWFCZ2 on 08 November 2006. There were 20 exceedances of SS Baseline Check Criteria, 3 exceedances of Action Level and 4 exceedances of Limit Level during reporting period when compared with the established baseline check criteria in Section 3.3 of this report.

#### **Waste Disposal**

A total of 641.18 tonnes of Construction & Demolition (C&D) waste and 64,856.48 tonnes of C&D materials (Public Fill) were disposed of at WENT Landfills and Public Filling Area in Tuen Mun

respectively during the reporting period. No chemical waste was disposed of during the reporting period.

#### **Exceedance**

A total of 197 exceedances of marine water quality data was recorded during the reporting period.

The ET have conducted investigations and identified 45 of them recorded in March, April and May 2006 were likely attributed to the construction activities of the Project. The CT immediately inspected the integrity of silt curtains, sealed and repaired where required. In addition, the CT 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 muddy site run-off entering into the storm drainage system.

An exceedance of SS level recorded on 14 September 2006 was likely due to heavy rainstorm in preceding day leading to muddy runoff discharging into drainage system. The CT immediately cleared the silt deposited in gullies and along Castle Peak Road, paved the site entrance, diverted site runoff to desilting tank and conducted regular clearing of desilting facility.

The remaining 151 exceedances of marine water quality were likely attributed to unidentified source and natural variation of marine water as dredging and reclamation works were not conducted during monitoring periods. Neither muddy water nor abnormal activities were observed. Elevated levels of SS or Tby were also recorded at respective control stations.

#### **Complaint Records**

No environmental complaint was received during the reporting period.

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

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

#### **Environmental Licences**

The CT registered as a chemical waste producer in February 2006 and a water discharge licence was granted in March 2006. CEDD approved the CT to deliver C&D materials to PFRF at Tuen Mun Area 38 in May 2006. Three Construction Noise Permits were 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 (Tsuen 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 440 m 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. The site location plan is showed in **Appendix A**.

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.

#### 1.2 Project Organisation

The project organisation chart for environmental management is shown in **Appendix B**. The key personnel contact names and numbers are summarised in **Table 1-1**. The duties of respective parties are listed in Section 1.9 of the EM&A Manual.

**Table 1-1:** Contact Information of Key Personnel

Organisation	Name	Telephone
Highway Department	Mr WK Lee	Tel: 2762 3570
Environmental Protection Department	Mr Thomas To	Tel: 2835 1103
Engineer's Representative (MHJV)	Mr Michael Harfoot	Tel: 2417 3820
Independent Environmental Checker (MEMCL)	Mr YT Tang	Tel: 3105 8537
Contractor (Chun Wo)	Mr Simon Wong	Tel: 2491 1214
ET Leader (Arup)	Mr Sam Tsoi	Tel: 2268 3211

#### 1.3 Purpose of the Report

The purpose of the annual EM&A review 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 first annual EM&A summary report summarising the monitoring methodology, locations, periods, frequencies, results and any observation from the noise, marine water quality and environmental site audit from March 2006 to February 2007.

# 2 Scope of Construction Works

#### 2.1 Construction Programme

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

#### 2.2 Construction Activities of the Past Twelve Months

The major construction activities carried out by CT during the reporting period included:

- Construction of bored pile retaining wall;
- · Construction of Seawall A and B;
- Slope remedial works;
- Placement of armour rock and rockfill at Seawall A and B;
- Construction of RC retaining wall and backfilling at Seawall A and B;
- Installation of precast panel at Seawall A and B; and
- Removal of stockpile at Seawall B.

# 3 Summary of EM&A Requirements

The impact environmental monitoring and audit for the Project included noise, marine water quality and environmental site audit. The monitoring parameters, frequency and locations are shown in **Appendix D**.

#### 3.1 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.

#### 3.1.1 Construction Noise

The A/L Levels for the construction noise have been established during the baseline monitoring as summarised in **Table 3-1**.

**Table 3-1:** 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	75 dB(A)

The action required to be taken by different parties in case of occurrence of exceedances of A/L Levels are summarised in the Event and Action Plan in **Appendix E**.

#### 3.1.2 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 3-2**. If the water quality monitoring results at any impact stations exceeded the criteria, the actions in accordance with the Event-Action Plan in **Appendix E** 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 3-3**. 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 3-2) 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 3-3). 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 and Action Plan will be triggered for implementation of action based on exceedance of Action Level.

**Table 3-2:** Action and Limit Levels of marine water quality established in Baseline Monitoring Report \*

						Monitoring	locations	·			
P	arameters	ww	A1	ww	A2	ww	A3	WWF	CZ1	WWF	CZ2
		Action Level	Limit Level								
					Mid	-ebb					
DO	Surface & middle	3.5	3.5	3.5	3.4	3.4	3.3	5.0 *	5.0	5.0 *	5.0
(mg/L)	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 (//L)	Surface & middle	3.3	3.3	3.4	3.3	3.5	3.3	5.0 *	5.0	5.0 *	5.0
(mg/L)	Bottom	3.2	3.2	3.2	3.2	3.2	3.2	3.3	2.0	3.5	2.0
-	Tby (NTU)	6.9	7.2	7.6	8.2	8.7	10.7	7.4	11.0	5.9	6.5
	SS (mg/L)	24.1	24.3	23.5	23.6	22.3	23.5	24.4	25.8	27.4	28.0

#### Notes:

<sup>&</sup>lt;sup>#</sup> Action and Limit Level for marine water quality were extracted from Baseline Monitoring Report, January 2006.

<sup>\*</sup> 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 3-3:** Marine water quality data obtained in the baseline check on 27 February 2006

	Parameters			Monitoring locations		
	raiailleteis	WWA1	WWA2	WWA3	WWFCZ1	WWFCZ2
			Mid-	ebb		
DO	Surface & middle	5.4	5.4	5.4	5.4	5.4
(mg/L)	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-f	lood		
DO (====(l-)	Surface & middle	5.3	5.3	5.3	5.3	5.3
(mg/L)	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

#### 3.2 Site Inspection and Environmental Complaint Handling

#### 3.2.1 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 quality, noise, water quality 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.

#### 3.2.2 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.

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 **Appendix F** for reference.

# 4 Noise Monitoring

## 4.1 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 Summary of Results

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

#### 5.1.1 Summary of Mid-Ebb Tide

The lowest DO level for surface & middle position of 4.9 mg/L was recorded at WWA1 on 15 May 2006 and the lowest level for bottom position of 4.7 mg/L was recorded at WWFCZ2 respectively on 15 May 2006. There were 2 exceedances of DO Baseline Check Criteria during the reporting period when compared with the established baseline check criteria in Section 3.3 of this report.

The highest depth-averaged Tby level of 22.1 Nephelometric Turbidity Unit (NTU) was recorded at WWA3 on 09 June 2006. There were 9 exceedances of Tby Baseline Check Criteria, 8 exceedances of Tby Action Level and 29 exceedances of Tby Limit Level during the reporting period when compared with the established baseline check criteria in Section 3.3 of this report.

The highest SS level of 31.0 mg/L was recorded at WWFCZ2 on 08 November 2006. There were 92 exceedances of SS Baseline Check Criteria and 5 exceedance of SS Limit Level during the reporting period when compared with the established baseline check criteria in Section 3.3 of this report.

#### 5.1.2 Summary of Mid-Flood Tide

The lowest DO level for surface & middle position of 4.9 mg/L was recorded at WWA1 on 15 May 2006 and the lowest DO level for bottom position of 4.9 mg/L was recorded at WWA1, WWA3 and WWFCZ2 respectively on 15 May 2006. There were 4 exceedances of DO levels during the reporting period when compared with the established baseline check criteria in Section 3.3 of this report.

The highest depth-averaged Tby level of 28.3 NTU was recorded at WWA1 on 04 May 2006. There were 5 exceedances of Tby Baseline Check Criteria, 3 exceedances of Tby Action Level and 13 exceedances of Tby Limit Level during the reporting period when compared with the established baseline check criteria in Section 3.3 of this report.

The highest SS level of 43.8 mg/L was recorded at WWFCZ2 on 08 November 2006. There were 20 exceedances of SS Baseline Check Criteria, 3 exceedances of Action Level and 4 exceedances of Limit Level during reporting period when compared with the established baseline check criteria in Section 3.3 of this report.

# 6 Implementation Status on Environmental Protection Requirements

The CT had implemented various environmental mitigation measures as stipulated in the EIA Report and EM&A Manual. The implementation status of environmental mitigation measures during the reporting period is summarized in **Appendix H**.

# 7 Overall Summary, Environmental Complaint and Noncompliance Record

## 7.1 Site Inspection

Dry unpaved area, rock breaking works without watering and exposed slopes without covers were observed occasionally. The CT had implemented appropriate mitigation measures upon requested by the ET. These included frequent watering of dry and dusty haul road, covering of exposed slopes by tarpaulin and provision of water spraying during dusty works.

The CT had scheduled noisy construction activities properly to avoid cumulative impacts and maintained all equipment in good operating condition. The Contractor also sited powered mechanical equipment away from the NSRs.

Recycled and rubbish bins were provided on-site. The CT also provided and maintained chemical waste storage area properly in the reporting period. C&D materials was segregated into reusable items and materials to be disposed of or recycled. However, accumulation of general refuse and C&D waste were occasionally observed by the ET. The CT had cleared the waste upon requested by the ET. Some oil drums were not equipped with driptrays. The CT was reminded to provide driptray for all oil drums.

Silt curtains were installed to prevent sediment plume in the reporting period, but they were observed broken at the early periods of the project. The CT ceased the marine works, checked the integrity of silt curtain, then sealed and repaired the broken area where required. The CT closely monitored the effectiveness of silt curtain and maintained the performance to ensure normal functioning. With the remedial work implemented, the marine water quality monitoring had been improved and resumed to normal ambient conditions.

## 7.2 Waste Disposal

Disposal of waste material during the reporting period generally complied with the corresponding waste disposal requirements. The waste disposal quantity during the reporting period is summarised in **Table 7-1**.

**Table 7-1:** Waste disposal quantity during the reporting period

Type of was	te or material	Disposal at	No. of loads or quantities
C&D waste		SENT/WENT Landfill	641.18 tonnes
C&D material	By truck	Public Filling Reception Facility in	60,218.48 tonnes
Cad material	By barge	Tuen Mun Area 38	4,638 tonnes
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.

#### 7.3 Exceedances

A total of 197 exceedances of marine water quality data was recorded in the reporting period.

The ET have conducted investigations and identified 45 of them recorded in March, April and May 2006 were likely attributed to the construction activities of the Project. The CT immediately inspected the integrity of silt curtains, sealed and repaired where required. In addition, the CT 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 muddy site run-off entering into the storm drainage system.

An exceedance of SS level recorded on 14 September 2006 was likely due to heavy rainstorm in preceding day leading to muddy runoff discharging into drainage system. The CT immediately cleared the silt deposited in gullies and along Castle Peak Road, paved the site entrance, diverted site runoff to desilting tank and conducted regular clearing of desilting facility.

The remaining 151 exceedances of marine water quality were likely attributed to unidentified source and natural variation of marine water as dredging and reclamation works were not conducted during monitoring periods. Neither muddy water nor abnormal activities were observed. Elevated levels of SS or Tby were also recorded at respective control stations.

The investigation summary of marine water quality are given in **Appendix I**. The exceedances are summarized in **Table 7-2**.

**Table 7-2:** Summary of exceedances of marine water quality monitoring during the reporting period

				Number of	f exceedan	ces				
Tide	ι	00 (mg/L)		Т	by (NTU)		s	S (mg/L)		Total
	Baseline Check	Action Level	Limit Level	Baseline Check	Action Level	Limit Level	Baseline Check	Action Level	Limit Level	
Not related to o	onstruction	works								
Mid-ebb	2	0	0	6	5	20	73	0	4	110
Mid-flood	4	0	0	5	3	7	16	3	3	41
Total	6	0	0	11	8	27	89	3	7	151
Related to cons	struction wo	orks								
Mid-ebb	0	0	0	3	3	9	19	0	1	35
Mid-flood	0	0	0	0	0	6	4	0	1	11
Total	0	0	0	3	3	15	23	0	2	46

#### 7.4 Complaint Record

There was no environmental complaint received during the reporting period.

#### 7.5 Notification of Summons and Successful Prosecution

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

#### 7.6 Comparison of the EM&A Data with the EIA Predictions

Noise monitoring was temporary suspended as Grand Bay Villa (WN5) was vacant with no resident. Water quality modelling was not conducted during the EIA stage. No comparison was conducted for environmental monitoring results.

#### 7.7 Review of the Monitoring Methodology and EM&A Programme

The environmental monitoring methodologies and procedures were regularly reviewed by the ET. No modification to the existing monitoring methodology was recommended.

The implementation of EM&A programme and the effectiveness and efficiency of the mitigation measures were satisfactory during the construction period.

#### 7.8 Environmental Licenses

A summary of the valid environmental licences during the reporting period is given in **Table 7-4.** 

Table 7-4: Summary of valid environmental licences during the reporting period

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	EP-760/336/011348 I	31 Mar 2006	31 Mar 2011
Construction Noise Permit	GW-RW0326-06	09 Jun 2006	08 Dec 2006
Construction Noise Permit	GW-RW0349-06	23 Jun 2006	22 Dec 2006
Construction Noise Permit	GW-RW 0654-06	14 Nov 2006	15 Mar 2007
Delivery of C&D Materials to PFRF at	Application No.: CEDD00087	12 May 2006	15 Aug 2006
Tuen Mun Area 38 by Barge	Application No.: CEDD00160	30 Jan 2007	30 Jun 2007

# 7.9 Environmental Acceptability of the Project

Although occasional exceedances of marine water quality were reported during the reporting period, the CT had implemented relevant mitigation measures. The environmental monitoring results indicated that the construction activities in general complied with the relevant environmental requirements. The Project was generally undertaken in an environmental acceptable manner.

# 8 Conclusion

The EM&A programme was implemented during the reporting period, including marine water quality monitoring and environmental site audits. The environmental performance of the Contractor during the reporting period was in general satisfactory. Upon advised by the ET, remedial measures had been taken to mitigate the environmental impacts caused by the construction activities. As a whole, EM&A programme had been well conducted during the reporting period.

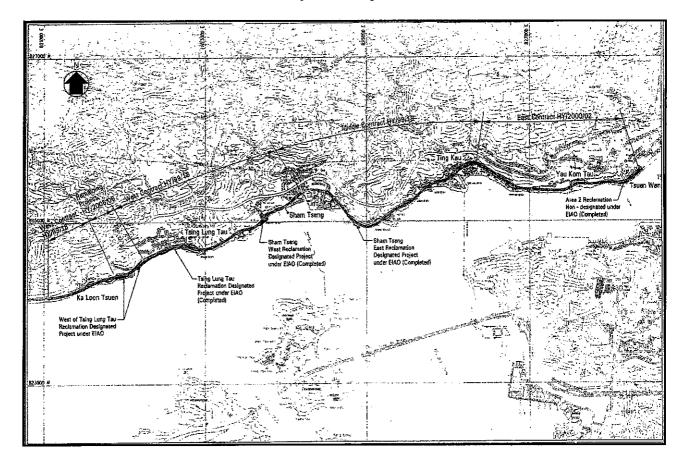
# 9 References

- [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. January 2006. Castle Peak Road Improvement West of Tsing Lung Tau. Contract No.HY2005/06. Environmental Baseline Monitoring Report (Second Issue)

Appendix A
Project Location Plan



# Project location plan

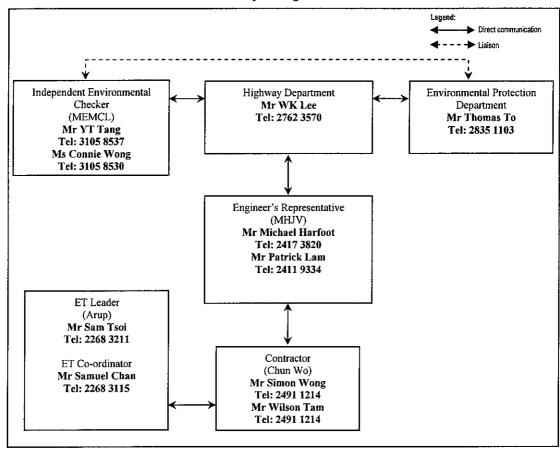




Appendix B
Project Organisation
Chart



# **Project Organisation**





Appendix C
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Appendix D
Summary of EM&A
Requirements



### **Construction Noise**

### **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.

### **Monitoring Frequency**

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

**Table D-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	Leq(30 min)		1
Between 1900-2300 hours on normal weekdays		Once per week	
Between 2300-0700 hours of next day	Leq(5 min)*	Once per week	3 (consecutive)
Between 0700-1900 hours on holidays			

<sup>\*</sup> The Legs min) will only be measured if construction activities are conducted in holidays and between the period of 1900 and 0700 hours during normal weekdays.

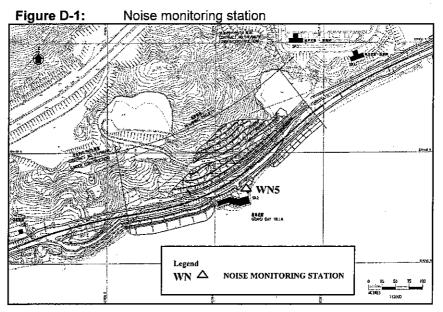
### **Monitoring Location**

Noise monitoring will be conducted at one designated location as shown in **Figure D-1**. The details of the noise monitoring location are given in **Table D-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 D-2: Construction noise monitoring locations

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

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



# 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.

### **Marine Water Quality**

### **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.

## **Monitoring Frequency**

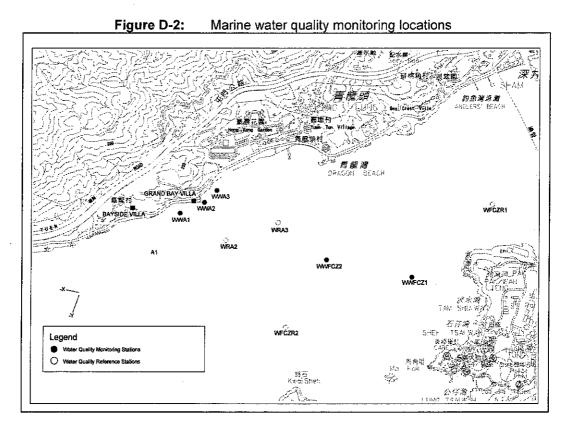
Impact marine water quality monitoring will be conducted three times per week, at mid-flood and mid-ebb tides and at 10 designated monitoring locations. The interval between two sets of monitoring will not be less than 36 hours.

### **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 D-3** and shown in **Figure D-2**.

Table D-3: Marine water quality monitoring locations

	Monitoring Location No.	Loca	ition
Marine Water Quarry i	wormoring Education No.	Eastings Eastings	Northings
Most of Crond Boy Villa	WWA1 (Impact Location)	821981	824282
West of Grand Bay Villa	WRA1 (Control Location)	821776	824078
Crond Boy Villa	WWA2 (Impact Location)	822141	824352
Grand Bay Villa	WRA2 (Control Location)	822283	824107
Fact of Crond Bay Villa	WWA3 (Impact Location)	822222	824429
East of Grand Bay Villa	WRA3 (Control Location)	822625	824222
	WWFCZ1 (Impact Location)	823500	823870
Ma Wan Fish Culture Zone	WWFCZ2(Impact Location)	822943	823983
ivia vvan rish Culture Zone	WFCZR1 (Control Location)	824024	824333
	WFCZR2 (Control Location)	822677	823547



Appendix E

**Event and Action Plan** 

 Table E-1:
 Event and Action Plan for construction noise

El leader	Action	G	
El Leavel		产品等限的 李安 <b>提与K</b> 可可能加强的	Contractor
tractor.	1. Review with the analysed	1. Confirm receipt of notification	1. Submit noise mitigation
Report the results of investigation	results submitted by E1.  2. Review the proposed	of exceedance in writing.  2. Notify the Contractor.	proposals to IEC. 2. Implement noise
to the IEC and the Contractor.	remedial measures by the		mitigation proposals.
Discuss with the Contractor and	Contractor and advise ER	propose remedial measures	-
Iormulate remedial measures. Increase monitoring frequency to	accordingly.	for the analysed noise	
		4. Ensure remedial measures	
	measures.	are properly implemented.	
ER, the DEP	1. Discuss amongst the ER,	1. Confirm receipt of notification	1. Take immediate action
and the Contractor.	the ET Leader and the	of exceedance in writing.	to avoid further
Identify the source.	Contractor on the potential	2. Notify the Contractor.	exceedance.
Repeat measurement to confirm	remedial actions.	3. Require the Contractor to	2. Submit proposals for
	<ol><li>Review the Contractor's</li></ol>	propose remedial measures	remedial actions to IEC
Increase monitoring frequency.	remedial actions whenever	for the analysed noise	within 3 working days
Carry out analysis of Contractor's	necessary to assure their	problem.	of notification.
working procedures to determine	effectiveness and advise	4. Ensure remedial measures	3. Implement the agreed
jation to be			proposals.
	<ol><li>Supervise the</li></ol>	5. If exceedance continues,	4. Resubmit proposals if
Inform the IEC, the ER, and the	implementation of remedial	consider what activity of the	problem still not under
DEP the causes & actions taken	measures.	work is responsible and	control.
for the exceedances.		instruct the Contractor to stop	5. Stop the relevant
Assess effectiveness of the		that activity of work until the	activity of works as
Contractor's remedial actions and		exceedance is abated.	determined by the ER
keep the IEC, the DEP and the ER			until the exceedance is
informed of the results.			abated.
If exceedance stops, cease			
additional monitoring			

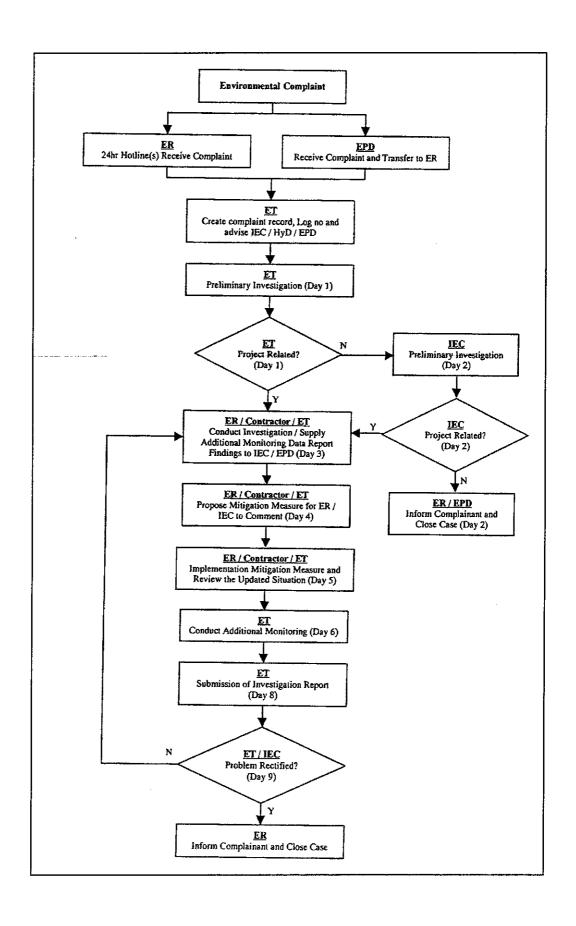
# Marine Water Quality

 Table E-2:
 Event and Action plan for marine water quality

	HICKSTON.		المتحد المطابدة		12.14.12.13.13.13.13.13.13.13.13.13.13.13.13.13.		7110
Event				Action			
		ET Leader	THE STATE OF THE S	E E		Contractor	
Action Level							
Action level being	÷	in-situ measurement to confirm	<ol> <li>Discuss with the ET Leader and</li> </ol>	1. Discuss with the IEC on	n the proposed	<ol> <li>Inform the ER and confirm notification of</li> </ol>	cation of
exceeded by one	,	findings.	the Contractor on the mitigation			•	
sampling day	N 6	identity source(s) of impact.		2. Make agreement on the mitigation measures to			
	. 4	pariioment	A nearties submitted by the	be implemented.			
	f	and the Contractor's working methods.	and advised the			<ol> <li>Consider changes of working memods.</li> <li>Discuss with the ET Leader and the IEC</li> </ol>	nods.
	ī.	le IEC					s to the
	(	Contractor.	effectivene			IEC and the ER.	
	oj.	Repeat measurement on next day of exceedance.	implemented mitigation measures		-	6. Implement the agreed in magainer	mitigation
Action level being	-	situ measurement to confirm	1. Discuss with the ET Leader and	1. Discuss with IEC on the proposed mitigation	oposed mitigation	1 Inform the ER and confirm notification of	ication of
exceeded by		•				the non-compliance in writing.	5
more than one	ر ان		measures.	<ol><li>Make agreement on the mitigation measures to</li></ol>			•••
consecutive days	mi •		oposals on mitiga			<ol><li>Check all plants and equipment.</li></ol>	
	4	Check monitoring data, all plant, equipment		<ol><li>Assess the effectiveness of the implemented</li></ol>			hods.
	ц	Dispute Contractor's Working methods.	Contractor and advised the ER	mitigation measures.			the IEC
	oʻ	and the Contractor	accordingly.			and propose mitigation measures to the	s to the
	g	ere serilseem do				e Erk within 3 working	days.
	i .	ented.				measures the agreed	miligation
	7	Prepare to increase the monitoring frequency					
		to daily.					
	ထ	Repeat measurement on next day of					
I imit   evel		exceeding.					
imit love being	•	-1, 1			ŀ		
exceeded by one	<u>-</u>	findings.	Discuss with the Ell Leader and the Contractor on the mitigation	<ol> <li>Discuss with IEC, the ET Confractor on the pro-</li> </ol>	El Leader and the	<ol> <li>Inform the ER and confirm notification of the non-compliance in uniting</li> </ol>	cation of
sampling day	2	Identify source(s) of impact.	measures	5	III A Batton		
· ·	က်	or and the DEP.	2. Review proposals on mitigation	2. Request the Contractor to critically review the		<ol> <li>Check all plants and equipment</li> </ol>	
	4.	ipment	measures submitted				hods.
	·	and the Contractor's working methods.	and advised the	<ol><li>Make agreement on the mitigation measures to</li></ol>	-		IEC and
	6	res with the IEC,		be implemented.		the ER, and propose mitigation measures	neasures
		and the Contractor.	effectivene	<ol> <li>Assess the effectiveness of the implemented</li> </ol>	the implemented	EC and the ER within	3 working
	o	implemental miligation measures are	implemented mitigation	mitigation measures.		days.	. :
		Increase the monitoring frequency to daily	measures.			6. Implement the agreed I	mitigation
	:	until no exceedance of the Limit Level.					
Limit level being	<del>-</del>	in-situ measurement to confirm	1. Discuss with the ET Leader and	ith IEC, the	l o	1. Inform the ER and confirm notification of	ication of
exceeded by	c	Tinglings.	the Contractor on the mitigation	on the	proposed mitigation		
consecutive days	vi es	Identity source(s) or impact. Inform the IEC the Contractor and the DEP	measures.	measures.		2. Rectify unacceptable practice.	
	· •		monariae gubmited by			-	_
	÷	and the Contractor's working methods.	Contractor and advised the FR	working methods.  3 Make agreement on the mitination measures to		4. Consider changes of working methods.	hods.
	ശ്	Discuss mitigation measures with the IEC.					neaclines
			3. Assess the effectiveness of the	4. Assess the effectiveness of the implemented	the implemented	to the IEC and the ER within 3 working	working
	ശ്	Ensure mitigation measures are	implemented mitigation			days.	D
	1	Implemented.	measures.	5. Consider and instruct, if	necessary, the	t the agreed	mitigation
	:	until no exceedance of the Limit Level for two		Contractor to slow down or to stop all or part of the marine work little no exceedance of limit		measures. 7 As directed by the FR slow down or ston	n eton
		consecutive days.		Level.			ities.
					-		

Appendix F
Complaint Procedures

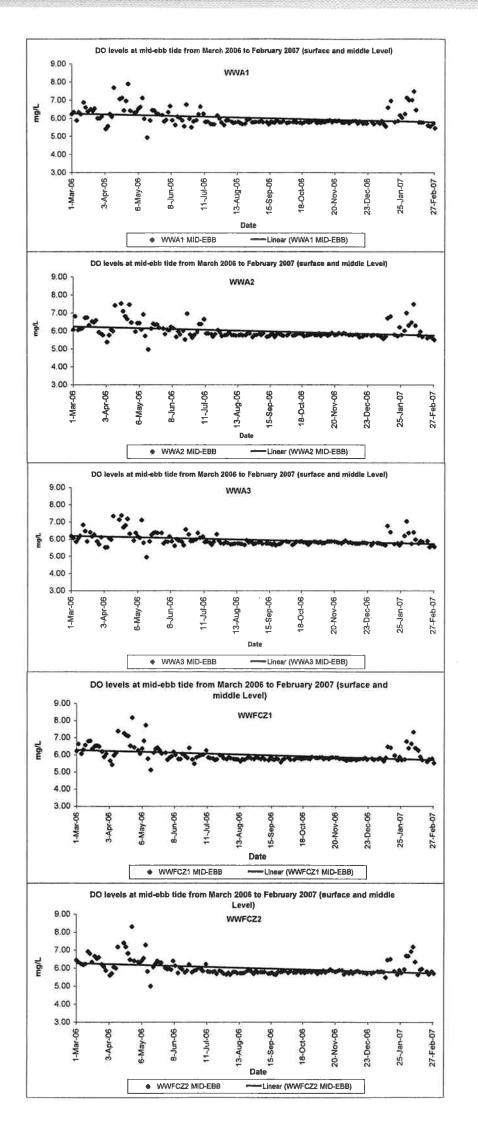


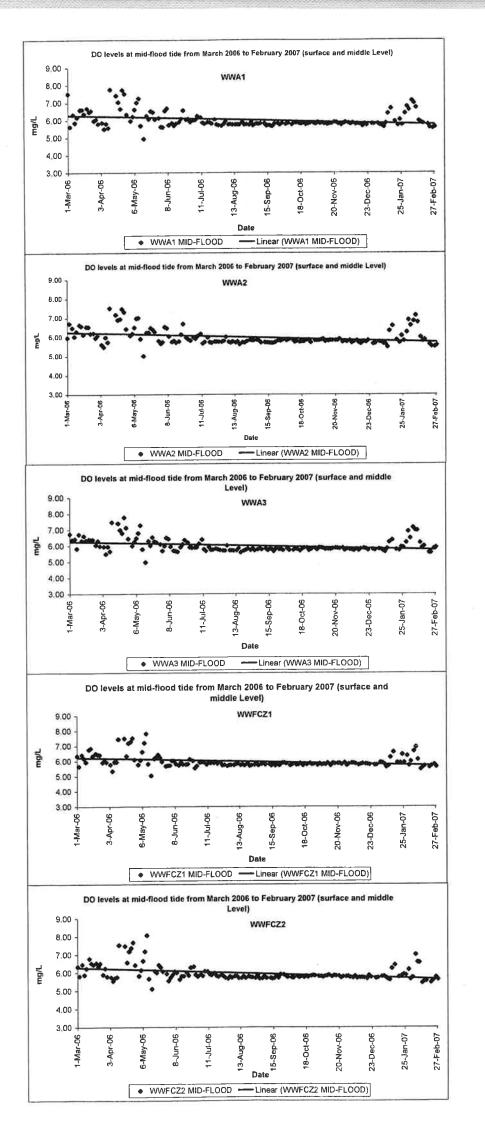


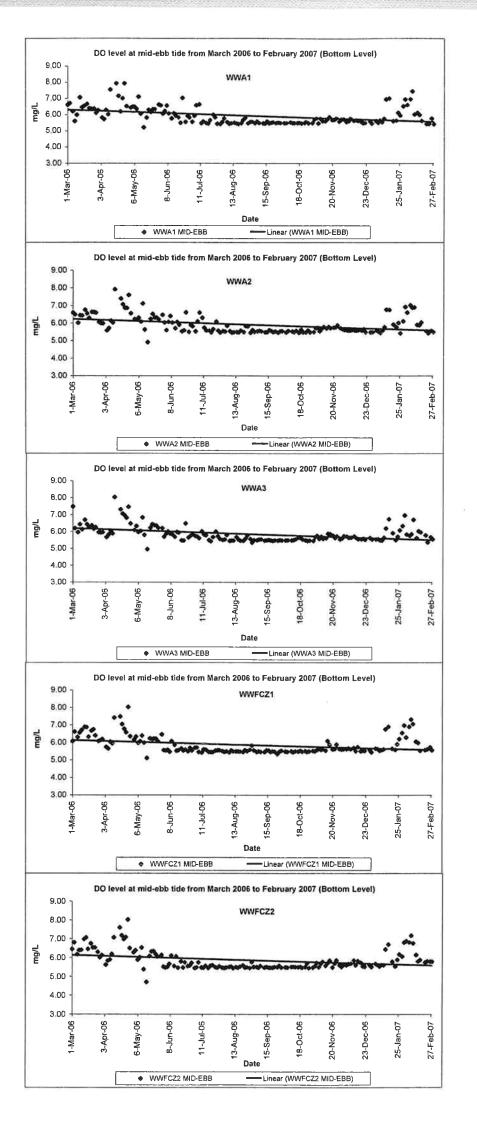


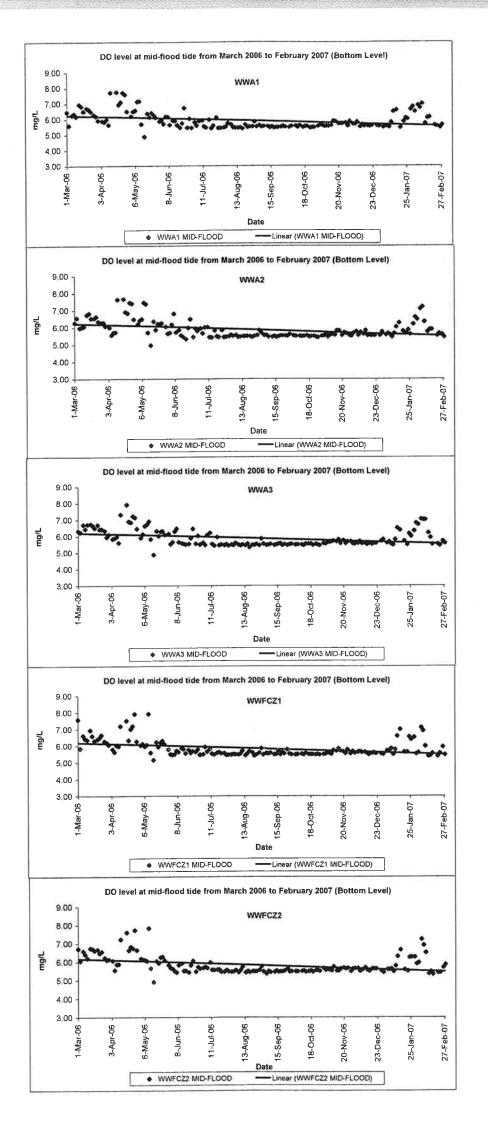
Appendix G
Graphical Presentation
of Marine Water
Monitoring Results

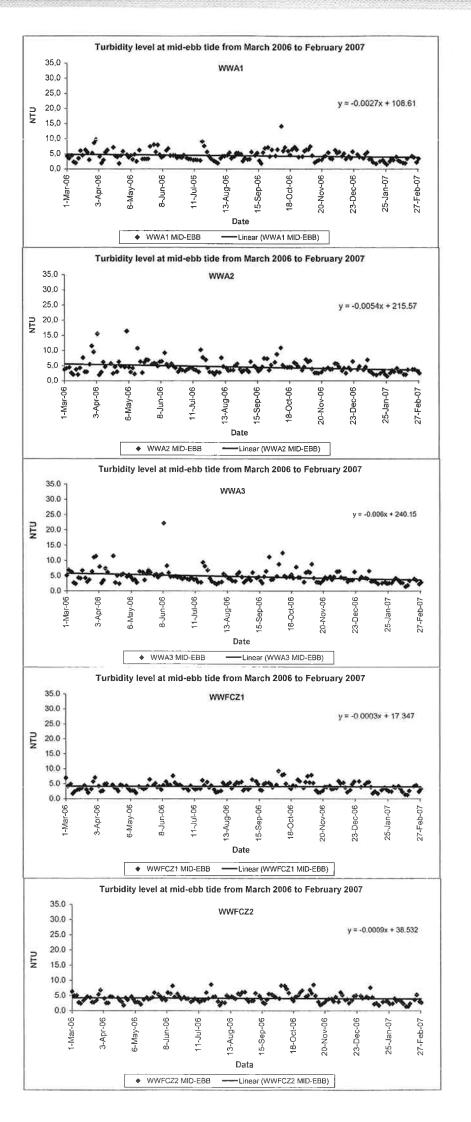


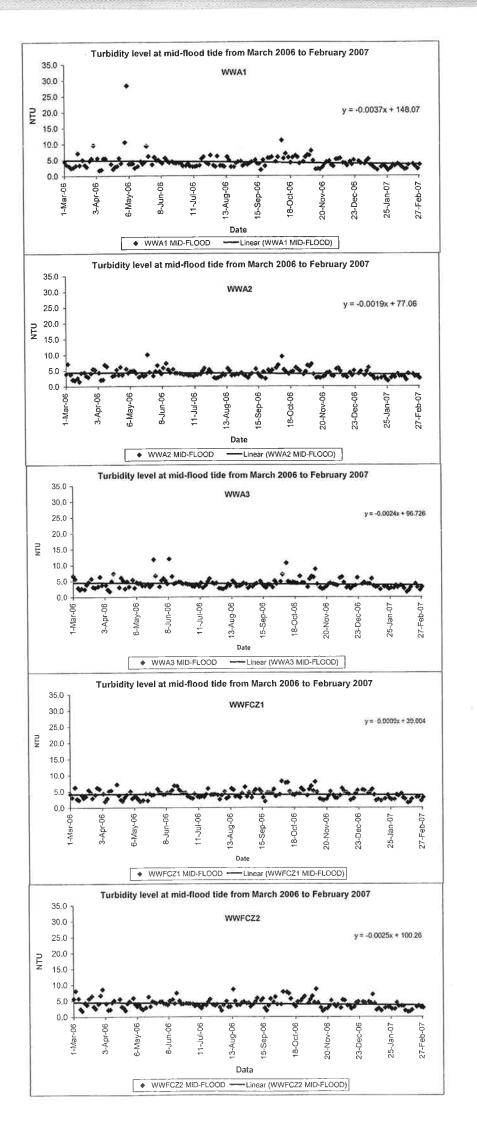


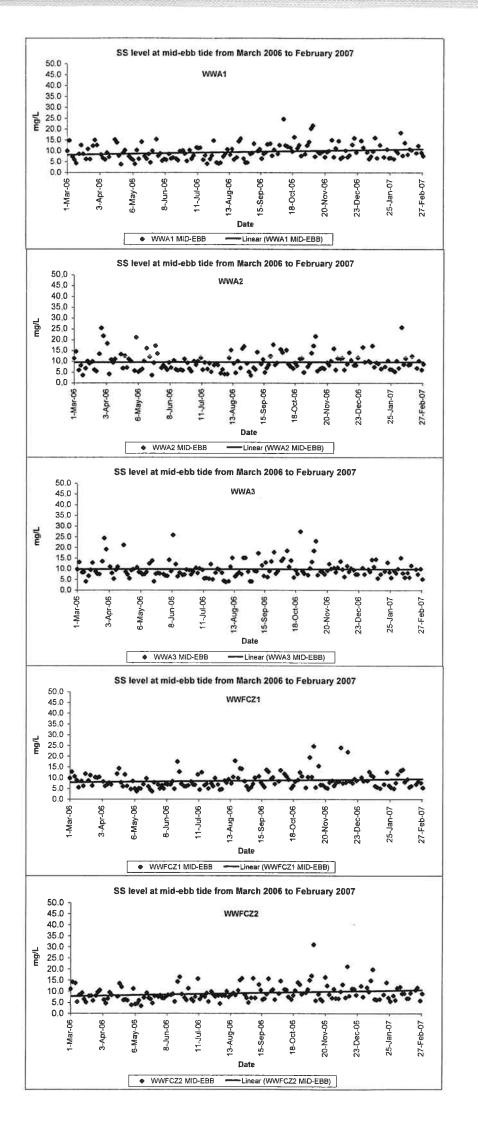


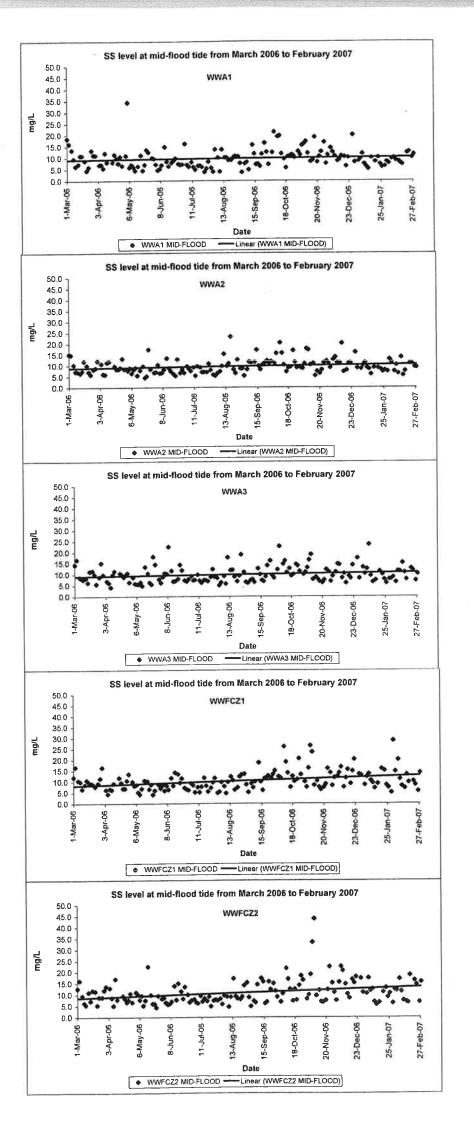














Appendix H
Implementation Status
on Environmental
Protection Requirements



# HY/2005/06 Castle Peak Road Improvement – West of Tsing Lung Tau (EP No. EP219/2005) Environmental Mitigation Implementation Schedule

Implementation	Status		Implemented	Implemented	Implemented	To be implemented when Grand Bay Villa becomes occupied
	Decommission					
Implementation Stages	Operation					
Implementa	Construction		`	`	`	`
	Design					
Relevant Standard or	Requirement		TMEIA and Project Profile	TMEIA and Project Profile	TMEIA and Project Profile	Environmental Permit No. 219/2005 Condition 3.11
Implementation	Agent		Contractor	Contractor	Contractor	Contractor
Location/	Timing		All areas	All areas	All areas	West of Tsing Lung Tau Reclamation
	Environmental Protection Measures	Construction Noise	Noisy equipment and activities should be sited by the Contractor as far away from sensitive receivers as is practical	Replace noisy plant with quieter alternatives	Schedule noisy activities to reduce duration and severity of noise exposure	In the event that Grand Bay Villa becomes occupied  west of Tsing Lung during the construction:  • 5m high temporary noise barriers with a material surface density of at least 7 kg/m² shall be erected to screen the façade of along Castle Peak Road and the Western end façade.  • Whenever the grab dredger is operating within 50 the reclamation west of Grand Bay Villa, the land based power mechanical equipment  • No more than a total of 2 derrick lighters shall be used for marine dredging works at the same time.

	l ocation/	Implementation	Relevant Standard or		Implementa	mplementation Stages		Implementation
Environmental Protection Measures	Timing	Agent	Requirement	Design	Construction	Operation	Decommission	Status
Construction Water Quality								
Dredging of marine sediment shall be limited to the scour apron.	West of Tsing Lung Tau Reclamation	Contractor	Environmental Permit No. 219/2005 Condition 3,1		`			Implemented
No more than a total of 2 derrick lighter shall be used West of Tsing Lung for marine dredger works. The maximum dredging rate shall not be more than 1,000 and 2,000 cum per day at the reclamation east and west of Grand Bay Mila respectively.	West of Tsing Lung Tau Reclamation	Contractor	Environmental Permit No. 219/2005 Condition 3.2		`			Implemented
All filling activities shall be carried behind rockfill and West of Tsing Lung rock armour.	West of Tsing Lung Tau Reclamation	Contractor	Environmental Permit No. 219/2005 Condition 3,3		`			Implemented
Tau Reclamation Tightly closing grabs shall be used to restrict the loss West of Tsing Lung of fine sediment to suspension.	West of Tsing Lung Tau Reclamation	Contractor	Environmental Permit No. 219/2005 Condition 3,4		>			Implemented
Silt curtain shall be installed along the reclamation area during construction to control sediment suspension within the work area.	West of Tsing Lung Tau Reclamation	Contractor	Environmental Permit No. 219/2005 Condition 3.5		>			Implemented
Marine water quality monitoring and audit programme shall be carried out.	West of Tsing Lung Tau Reclamation	Contractor	Environmental Permit No. 219/2005 Condition 3.6		>			Implemented
The construction method specified in Section 2.1 of the Project Profile (Register No. PP-245/2005) shall be followed during construction.	West of Tsing Lung Tau Reclamation	Contractor	Environmental Permit No. 219/2005 Condition 3.7		`			Implemented
Wastewater collected from canteen kitchens, including from basins, sinks and floor drains shall be discharged into public sewers via grease traps. Drainage system provided at car parking areas shall be equipped with oil interceptors in addition to sand or silf removal facilities.	West of Tsing Lung Tau Reclamation	Contractor	Environmental Permit No. 219/2005 Condition 3.10		`			Not Applicable

Appendix I
Investigation Summary
on Marine Water Quality
Exceedances

						ı	Exceedance	of Monitorin	g Data							
Date	Tide	Location		DO	(mg/L)			Tby (NTU)			SS (mg/L)	)	ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline	Control Station	Level at Impact Station				
27-Mar-06	mid-ebb	WWA2	-	-	-	-		-	-	<u>Check</u> 13.0	10.5	13.5	The ET's field staff observed some muddy water seepage from the silt curtains at Seawalls A and B works areas, which was likely due to leakage from silt curtain. The CT was advised to immediately check the integrity and normal functioning of the silt curtains and review the marine works procedures to avoid such seepage recurrence, e.g.	of silt curtain, then sealed and repaired the leakage area where required. The CT closely monitored the effectiveness of silt curtain and maintained the performance to ensure normal	6-Apr-06	Refer to ET's field record, photos & CT's daily records
27-Mar-06	mid-ebb	WWA3		-	,	-		,		13.0	12.5	13.5	implementing precautionary measures to avoid breaking silt curtain materials, frequent checking of integrity and maintenance to ensure normal functioning, etc.	functioning. With the remedial work implemented, the subsequent marine water quality monitoring data (6 April 2006) indicated resumption to normal ambient conditions.		
29-Mar-06	mid-ebb	WWA1	-	-	-	-	6.5	6.4	8.6	13.0	14.3	15.0	Ditto	Ditto	Ditto	Ditto
29-Mar-06	mid-ebb	WWA2	-	-	-	-	6.5	6.8	11.5	13.0	11.7	25.5				
29-Mar-06	mid-ebb	WWA3	-	-	-	-	6.5	5.8	11.0	13.0	15.8	24.3				
31-Mar-06	mid-flood	WWA1	-	-	-	-	6.6	5.7	9.6	-	-	-	Ditto	Ditto	Ditto	Ditto
31-Mar-06	mid-ebb	WWA2	-	-	-	-	6.5	7.5	9.5	13.0	19.2	21.8				
31-Mar-06	mid-ebb	WWA3	-	-	-	-	6.5	6.5	11.3	13.0	13.2	19.2				
31-Mar-06	mid-flood	WWFCZ2		-	-	-	6.6	8.5	8.6	-	-	-	No abnormal activity which would likely cause deterioration of water quality was observed at WWFCZ2 by ET's field staff. As the exceedance was only marginal to the Control Station WWWFCZR2, the exceedance contributed by the nearby stations WRA1, WRA2, WRA3 and WWFCZ1 would be unlikely due to their normal Tby levels, hence the exceedance would be unlikely caused by the construction works of the Project.	No action	NA	NA

							Exceedance of	of Monitorin	g Data				]			
Date	Tide	Location		DO	(mg/L)			Tby (NTU)			SS (mg/L)		ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact Station				
4-Apr-06	mid-ebb	WWA2			-		6.5	4.1	15.5	13	5.2	18.3	The ET's field staff observed some muddy water seepage from the silt curtains at Seawalls A and B works areas, which was likely due to leakage from silt curtain. The CT was advised to immediately check the integrity and normal functioning of the silt curtains and review the marine works procedures to avoid such seepage recurrence, e.g. implementing precautionary measures to avoid breaking silt curtain materials, frequent checking of integrity and maintenance to ensure normal functioning, etc.	of silt curtain, then sealed and repaired the leakage area where required. The CT closely monitored the effectiveness of silt curtain and maintained the performance to ensure normal functioning. With the remedial	6-Apr-06	Refer to ET's field record, photos & CT daily records
4-Apr-06	mid-ebb	WWA3	-	-	-	-	6.5	3.7	7.9	-	-	-	Ditto	Ditto	Ditto	Ditto
10-Apr-06	mid-ebb	WWA3			-		6.5	5.2	7.3			•	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at WWA2 and WWA3 on 10 and 12 April 2006 by ET's field staff. The exceedances of Tby were only marginal to the Baseline Check Criteria at these 2 monitoring locations. In addition, there were no exceedances of SS levels, which were relatively low (between 9.5 and 11.5 mg/L). Hence, the exceedances were unlikely due to the construction works of the Project. Nevertheless, the Contractor has been reminded to monitor the effectiveness of silt curtain and maintain the performance to ensure normal functioning.	No action	21-Apr-06	Refer to ET's field record, photos & CT' daily records.
10-Apr-06	mid-flood	WWA2	-	-	-	-	6.6	3.1	6.8	-	-	-	Ditto	Ditto	Ditto	Ditto
12-Apr-06	mid-flood	WWA3	-	-	-	-	6.6	4.1	7.3	-	-	-	Ditto	Ditto	Ditto	Ditto

							Exceedance	of Monitorin	g Data	1			1			
Date	Tide	Location		DO	(mg/L)			Tby (NTU)			SS (mg/L)		ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline	Control	Level at	Baseline	Control	Level at	Baseline	Control	Level at				
18-Apr-06	mid-ebb	WWA1	-	Check	Station -	Impact -	6.5	Station 4.8	<u>Impact</u> 7.1	<u>Check</u> 13.0	Station 10.2	Impact Station 15.2	ET's field staff observed muddy water at WWA1 and WWA3 on 18 April 2006, which was likely due to leakage from silt curtain. ET conducted further investigation on 20 and 21 April 2006. Openings were observed at ends of silt curtains and muddy water was likely leaked from these openings. The CT was advised to immediately check the integrity and normal functioning of the silt curtains.	the integrity of silt curtain, then sealed and repaired the leakage area where required. The CT closely monitored the effectiveness of silt curtain and maintained the performance to ensure normal functioning. With the remedial work implemented, the subsequent marine water quality monitoring data (22	27-Apr-06	Refer to ET's field record, photos & CT' daily records.
18-Apr-06	mid-ebb	WWA2	-	-	-	-	-	-	-	13.0	10.7	13.3	Ditto	Ditto	Ditto	Ditto
18-Apr-06	mid-ebb	WWA3	-	-	-	-	6.5	4.2	11.4	13.0	12.3	21.2	Ditto	Ditto	Ditto	Ditto
20-Apr-06	mid-ebb	WWA1	-	-	-	-	-	-	-	13.0	7.0	13.8	Ditto	Ditto	Ditto	Ditto
20-Apr-06	mid-ebb	WWFCZ1	-	-	-	-	-	-	-	13.0	7.8	14.3	Ditto	Ditto	Ditto	Ditto
20-Apr-06	mid-ebb	WWFCZ2	-	-	-	-	-	-	-	13.0	8.8	13.5	Ditto	Ditto	Ditto	Ditto
2-May-06	mid-flood	WWA1	-	-	-	-	6.6	3.9	10.5	-	-	-	The ET's field staff observed muddy water at WWA1, which was likely due to leakage from silt curtain. The CT was advised to immediately check the integrity and normal functioning of the silt curtains and review the marine works procedures to avoid such seepage recurrence, e.g. implementing precautionary measures to avoid breaking silt curtain materials, frequent checking of integrity and maintenance to ensure normal functioning, etc	The CT has immediately to check the integrity of silt curtain, then sealed and repaired the leakage area where required. On 4 and 6 May 2006, the CT constructed a bund wall inside silt curtain and along the work area of Seawall B. The CT closely monitored the effectiveness of silt curtain and maintained the performance to ensure normal functioning. With the remedial work implemented, the subsequent marine water quality monitoring data (6, 8, 10 and 12 May 2006) indicated resumption to normal ambient conditions.	19-May-06	Refer to ET's field record, photos & CT's daily records.

						ı	Exceedance (	of Monitorin	g Data							
Date	Tide	Location		DO	(mg/L)			Tby (NTU)			SS (mg/L	)	ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact Station				
4-May-06	mid-ebb	WWA2	-	-	-	-	6.5	3.7	16.4	13.0	9.0	21.0	Ditto	Ditto	Ditto	Ditto
4-May-06	mid-flood	WWA1	-	-	-	-	6.6	3.1	28.3	17.0	6.8	34.3	Ditto	Ditto	Ditto	Ditto
15-May-06	mid-ebb	WWA1		-			-	•	•	13.0	8.7		All of exceedances of DO levels were marginal and comparable to the levels at their respective control stations (ambient levels). This may be due to influence of typhoon or natural variation of marine water quality. However, the exceedances of Tby and SS were likely due to leakage of silt curtains. The CT was advised to immediately check the integrity and normal functioning of the silt curtains and review the marine works procedures to avoid such seepage recurrence, e.g. implementing precautionary measures to avoid breaking silt curtain materials, frequent checking of integrity and maintenance to ensure normal functioning, etc	repaired the leakage area where required. The CT closely monitored the effectiveness of silt curtain and maintained the performance to ensure normal functioning. With the remedial work implemented, the subsequent marine water quality monitoring data (20	30-May-06	Refer to ET's field record, photos & CT's daily records.
15-May-06	mid-ebb	WWA2	-	-	-	-	6.5	4.4	10.7	13.0	8.2	16.0	Ditto	Ditto	Ditto	Ditto
15-May-06	mid-ebb	WWA3	Bottom	5.4	5.2	5.0	-	-	-	-	-	-	Ditto	Ditto	Ditto	Ditto
15-May-06	mid-ebb	WWFCZ2	Bottom	5.4	4.9	4.7	-	-	-	-	-	-	Ditto	Ditto	Ditto	Ditto
15-May-06	mid-flood	WWA1	Bottom	5.3	5.0	4.9	-	-	-	-	-	-	Ditto	Ditto	Ditto	Ditto
15-May-06	mid-flood	WWA2	Bottom	5.3	5.1	5.0	-	-	-	-	-	-	Ditto	Ditto	Ditto	Ditto
15-May-06	mid-flood	WWFCZ1	Surface & Middle	5.3	5.1	5	-	-	-	-	-	-	Ditto	Ditto	Ditto	Ditto
15-May-06	mid-flood	WWFCZ2	Bottom	5.3	5.2	4.9	-	-	-	17.0	11.5	22.5	Ditto	Ditto	Ditto	Ditto
18-May-06	mid-ebb	WWA3	-	-	-	-	-	-	-	13.0	11.2	13.8	Ditto	Ditto	Ditto	Ditto

							Exceedance of	of Monitorin	g Data							
Date	Tide	Location		DO	(mg/L)			Tby (NTU)			SS (mg/L	.)	ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact Station				
24-May-06	mid-ebb	WWA2	-		-		6.5	4.5	6.9	13	6.2	17.2	ET's field staff observed construction works were being conducted at Seawall A and B during marine water monitoring period on 24 and 26 May 2006. The exceedances were likely due to leakage from sift curtain. The CT was advised to immediately check the integrity and normal functioning of the silt curtains and review the marine works procedures to avoid such seepage recurrence, e.g. implementing precautionary measures to avoid breaking silt curtain materials, frequent checking of integrity and maintenance to ensure normal functioning, etc.	curtain at Seawall B on 24 and 25 May respectively. The CT closely monitored the effectiveness of silt curtain and maintained the performance to ensure normal functioning. With the remedial work implemented, the subsequent marine water quality monitoring data (30 May 2006) indicated resumption to normal ambient conditions.	6-Jun-06	Refer to ET field record photos & CT daily record
24-May-06	mid-ebb	WWA3	-	-	-	-	6.5	4.8	6.7	-	-	-	Ditto	Ditto	Ditto	Ditto
24-May-06	mid-flood	WWA1	-	-	-	-	6.6	4.4	9.3	-	-	-	Ditto	Ditto	Ditto	Ditto
24-May-06	mid-flood	WWA2	-	-	-	-	6.6	4.9	10.0	17	5.2	17.3	Ditto	Ditto	Ditto	Ditto
24-May-06	mid-flood	WWA3	-	-	-	-	6.6	4.8	11.7	17	4.8	18	Ditto	Ditto	Ditto	Ditto
26-May-06	mid-ebb	WWA1	-	-	-	-	6.5	6.5	7.4	-	-	-	Ditto	Ditto	Ditto	Ditto
26-May-06	mid-ebb	WWA2	_	_	-	_	6.5	5.9	6.8	-	11.0	13.5	Ditto	Ditto	Ditto	Ditto

			vestigation Summary  Exceedance of Monitoring Data													
Date	Tide	Location		DO	(mg/L)			Tby (NTU)			SS (mg/L)		ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact Station		,		
30-May-06	mid-ebb	WWA1				•				13.0	15.2	15.3	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at WWA1 on 30 May 2006 by ET's field staff. The exceedance of SS was only marginal to the Baseline Check Criteria at this monitoring location and 0.1mg/L higher than the respective control station. In addition, there was no exceedances of Tby level. Hence, the exceedance was unlikely due to the construction works of the Project. Nevertheless, the Contractor has been reminded to monitor the effectiveness of silt curtain and maintain the performance to ensure normal functioning.	No action	5-Jun-06	Refer to ET's field record, photos & CT's daily records.
3-Jun-06	mid-ebb	WWA1		•	•		6.5	4.0	7.9		-		No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at WWA1 on 3 June 2006 by ET's field staff. The exceedance of Tby was only marginal to the Baseline Check Criteria at this monitoring location. In addition, there was no exceedance of SS level, which was relatively low (8.8 mg/L). Hence, the exceedance was unlikely due to the construction works of the Project. Nevertheless, the Contractor has been reminded to monitor the effectiveness of silt curtain and maintain the performance to ensure normal functioning.	No action	13-Jun-06	Refer to ET's field record, photos & CT's daily records.

Date	Tide	Location		-		E	Exceedance	of Monitorin								
			DO (mg/L)				Tby (NTU)			SS (mg/L)			ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact Station				
5-Jun-06	mid-ebb	WWA3	-	-	-	inipact		-	-	13	6.2	14.2	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at WWA3 on 5 June 2006 by ET's field staff. The exceedance of SS was only marginal to the Baseline Check Criteria at this monitoring location. In addition, there was no exceedance of Tby level, which was relatively low (5.1 NTU). Hence, the exceedance was unlikely due to the construction works of the Project. Nevertheless, the Contractor has been reminded to monitor the effectiveness of silt curtain and maintain the performance to ensure normal functioning.	No action	13-Jun-06	Refer to ET's field record, photos & CT's daily records.
9-Jun-06	mid-ebb	WWA3	•	-		•	6.5	4.4	22.1	13	5.5	25.8	Warning was issued. Soil and dirt were washed down from shore to the sea. The exceedances of marine water quality were unlikely due to the construction activities. The Contractor has been advised to check the integrity and normal	The CT mobilised workers to check the integrity of silt curtain and clear the silt in drainage channel. The CT also closely monitored the effectiveness of silt curtain and maintained the performance to ensure normal functioning. With the remedial work implemented, the subsequent marine water quality monitoring data (14 June 2006) indicated resumption to normal ambient conditions.	28-Jun-06	Refer to ET's field record, photos & CT's daily records.
9-Jun-06	mid-flood	WWA3	-	-	-	-	6.6	4.0	11.9	17	6.3	22.5	Ditto	Ditto	Ditto	Ditto

		eedance Inv	·	<u> </u>		I	Exceedance	of Monitorin	ng Data							
Date	Tide	Location		DO	(mg/L)			Tby (NTU)			SS (mg/L)	)	ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact Station				
12-Jun-06	mid-ebb	WWA2					6.5	5.9	9.2				Heavy rain was observed occasionally on 12 June 2006. Soil and dirt were washed down from shore to the sea. Hence, the exceedances of Tby at WWA2 and WWA3 were unlikely related to Construction activities of the Project. The Contractor has been advised to check the integrity and normal functioning of the construction methods and mitigation measures especially the silt curtains. In addition, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains	drainage channel. The CT also closely monitored the effectiveness of silt curtain and maintained the performance to ensure normal		Refer to ET's field record, photos & CT's daily records.
12-Jun-06	mid-ebb	WWA3	-	-	-	-	6.5	4.9	8.2	-	-	-	Ditto	Ditto	Ditto	Ditto
12-Jun-06	mid-flood	WWA2	-	-	-	-	6.6	6.6	7.2	-	-	-	Ditto	Ditto	Ditto	Ditto
14-Jun-06	mid-ebb	WWFCZ2	•	-	-	•	6.5	6.1	8.1	-	-	-	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at monitoring stations on 14 June 2006 by ET's field staff. As the exceedance was only marginal to the Control Station WWWFCZR2, the exceednace contributed by the nearby stations WRA1, WRA2, WRA3 and WWFCZ1 would be unlikely due to their normal Tby levels, hence the exceedance would be unlikely caused by the construction works of the Project.	No action	28-Jun-06	Refer to ET's field record, photos & CT's daily records.

						I	Exceedance of	of Monitorin	g Data				]			
Date	Tide	Location		DO	(mg/L)			Tby (NTU)			SS (mg/L)		ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact Station				
19-Jun-06	mid-ebb	WWFCZ1							-	13	11.2	17.5	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at monitoring stations on 19 and 21 June 2006 by ET's field staff. The exceednaces contributed by the nearby stations WRA1, WRA2, WRA3, WFCZR1 and WFCZR2 would be unlikely due to their normal SS levels, hence the exceedances would be unlikely caused by the construction works of the Project.	No action	29-Jun-06	Refer to ET's field record, photos & CT' daily records
19-Jun-06	mid-ebb	WWFCZ2	-	-	-	-	-	-	-	13	7.0	14.3	Ditto	Ditto	Ditto	Ditto
21-Jun-06	mid-ebb	WWFCZ2	-	-	-	-	-	-	-	13	6	16.5	Ditto	Ditto	Ditto	Ditto
19-Jul-06	mid-ebb	WWA1				•	6.5	4.9	9.1	-		•	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at monitoring stations on 19, 21 and 24 July 2006 by ET's field staff. The exceedances of Tby were only marginal to the Baseline Check Criteria, Action and Limit Levels at WWA1, WWA2 and WWA3. In addition, there were no exceedances of SS levels, which were relatively low (4.1 - 12.2 mg/L). 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.	No action	1-Aug-06	Refer to ET's field record, photos & CT's daily records.
19-Jul-06	mid-ebb	WWA2	-	-	-	-	6.5	6.4	10.2	-	-	-	Ditto	Ditto	Ditto	Ditto
	mid-ebb	WWA3	-	-	-	-	6.5	6.0	9.3	-	_	-	Ditto	Ditto	Ditto	Ditto
19-Jul-06	mu-ebb						0.0							Dillo	Dillo	Ditto

							Exceedance	of Monitorir	ng Data							
Date	Tide	Location		DO	(mg/L)			Tby (NTU)			SS (mg/L	.)	ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact Station				
21-Jul-06	mid-ebb	WWA2	-	-	-	-	6.5	5.9	7.7	-	-	-	Ditto	Ditto	Ditto	Ditto
21-Jul-06	mid-ebb	WWA3	-	-	-	-	6.5	5.9	8.1	-	-	-	Ditto	Ditto	Ditto	Ditto
24-Jul-06	mid-ebb	WWA2	-	-	-	-	6.5	4.9	6.9	-	-	-	Ditto	Ditto	Ditto	Ditto
24-Jul-06	mid-ebb	WWA3	-	-	-	-	6.5	5.1	6.8	-	-	-	Ditto	Ditto	Ditto	Ditto
28-Jul-06	mid-ebb	WWA1		-			-	-	-	13.0	11.7	14.7	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at WWA1 on 28 July 2006 by ET's field staff. The exceedance of SS was only marginal to the Baseline Check Criteria. In addition, there was no exceedance of Tby level, which was relatively low (3.4 NTU). Hence, the exceedance was 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.	No action	4-Aug-06	Refer to ET' field record photos & CT daily records

						E	Exceedance	of Monitorin	g Data							
Date	Tide	Location		DO	(mg/L)			Tby (NTU)			SS (mg/L)	1	ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact Station				
9-Aug-06	mid-ebb	WWA2	-	-	-		6.5	5.3	7.6	·	-		No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at WWA2 on 9 August 2006 by ET's field staff. The exceedance of Tby was only marginal to the Baseline Check Criteria, Action and Limit Level. In addition, there was no exceedance of SS level on the same tide and same day at this station. Hence, the exceedance was 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.	No action	15-Aug-06	Refer to ET's field record, photos & CT daily records
11-Aug-06	mid-ebb	WWA3	-	-	-					13.0	14.0		No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at WWA3 on 11 August 2006 by ET's field staff. The exceedances of SS were only marginal to the Baseline Check Criteria. In addition, there were no exceedances of Tby levels on the same station and the same day. During the monitoring period, formwork and reinforcement works were being conducted at Seawall B and no reclamation works were being carried out. 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.	No action	18-Aug-06	Refer to ET's field record, photos & CT' daily records
11-Aug-06	mid-flood	WWA3	-	-	-	-	-	-	-	17.0	7.4	17.7	Ditto	Ditto	Ditto	Ditto

						I	Exceedance	of Monitorin	ng Data							
Date	Tide	Location		DO	(mg/L)			Tby (NTU)			SS (mg/L	)	ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact Station				
18-Aug-06	Mid-ebb	WWFCZ1	•	-		•	-	-	-	13.0	7.7		No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at WWFCZ1 on 18 August 2006 by ET's field staff. The exceednace contributed by the nearby stations WRA1, WRA2, WRA3 and WWFCZ2 would be unlikely due to their normal So levels, hence the exceedance would be unlikely caused by the construction works of the Project.	No action	29-Aug-06	Refer to ET's field record, photos & CT daily records
18-Aug-06	Mid-flood	WWA2	-	-	-	-	-	-	-	17.0	8.7		No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at WWA2 on 18 August 2006 by ET's field staff. The exceedance of SS was only marginal to the Baseline Check Criteria. In addition, there was no exceedance of Tby level on the same station on the same day. Hence, the exceedance was 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.	No action	29-Aug-06	Refer to ET's field record, photos & CT' daily records

							Exceedance of	ot Monitorin	g Data	ı						
Date	Tide	Location		DO	(mg/L)			Tby (NTU)			SS (mg/L)	)	ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact Station				
23-Aug-06	Mid-ebb	WWA1				-				13.0	12.2	14.3	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at WWA1, WWA2, WWFCZ1 and WWFCZ2 on 23 August 2006 by ET's field staff. The exceedances of SS levels were only marginal to the Baseline Check Criteria. In addition, there were no exceedances of Tby levels on the same stations on the same day. 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.	No Action	29-Aug-06	Refer to ET field record photos & CT daily record:
23-Aug-06	Mid-ebb	WWA2				-	-	1	-	13.0	10.8	16.0	Ditto	Ditto	Ditto	Ditto
23-Aug-06	Mid-ebb	WWA3	-	-	-	-	-	-	-	13.0	10.8	15.2	Ditto	Ditto	Ditto	Ditto
23-Aug-06	Mid-ebb	WWFCZ1	-	-	-	-	-	-	-	13.0	12.0	14.3	Ditto	Ditto	Ditto	Ditto
23-Aug-06	Mid-ebb	WWFCZ2	-	-	-	-	-	-	-	13.0	12.5	15.0	Ditto	Ditto	Ditto	Ditto
25-Aug-06	mid-ebb	WWA1				-	-		-	13.0	12.0		No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at WWA1, WWA2, WWA3, WWFCZ1 and WWFCZ2 on 25 August 2006 by ET's field staff. The exceedances of SS levels were only marginal to the Baseline Check Criteria. In addition, there were no exceedances of Tby levels on the same stations on the same day. 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.	No action	5-Sep-06	Refer to ET' field record photos & CT daily records

						I	Exceedance	of Monitorin	g Data							
Date	Tide	Location		DO	(mg/L)			Tby (NTU)			SS (mg/L)	)	ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact Station				
25-Aug-06	mid-ebb	WWA3	-	-	-	-	-	-	-	13.0	13.2	15.2	Ditto	Ditto	Ditto	Ditto
25-Aug-06	mid-ebb	WWFCZ1	-	-	-	-	-	-	-	13.0	13.2	14.2	Ditto	Ditto	Ditto	Ditto
25-Aug-06	mid-ebb	WWFCZ2	-	-	-	-	-	-	-	13.0	12.3	15.8	Ditto	Ditto	Ditto	Ditto
25-Aug-06	mid-flood	WWA3	-	-	-	-	-	-	-	17.0	12.5	19.0	Ditto	Ditto	Ditto	Ditto
6-Sep-06	mid-ebb	WWFCZ2	-	-	-		-	-	-	13.0	14.2	15.8	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at WWFCZ2 on 6 September 2006 by ET's field staff. The exceednace contributed by the nearby stations WRA1, WRA2 and WRA3 would be unlikely due to their normal SS levels, hence the exceedance would be unlikely caused by the construction works of the Project.	No action	15-Sep-06	Refer to ET: field record & CT's daily records.
8-Sep-06	mid-ebb	WWA1	-							13.0	13.0	13.3	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at WWA1, WWA2 and WWA3 on 8 September 2006 by ET's field staff. The exceedances of SS levels were only marginal to the Baseline Check Criteria. In addition, there were no exceedances of Tby levels on the same stations on the same day. 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.	No action	15-Sep-06	Refer to ET's field record & CT's daily records.
8-Sep-06	mid-ebb	WWA2	-	-	-	-	-	-	-	13.0	8.8	14.3	Ditto	Ditto	Ditto	Ditto
8-Sep-06	mid-ebb	WWA3	-	-	-	-	-	-	-	13.0	12.7	17.3	Ditto	Ditto	Ditto	Ditto

						I	Exceedance	of Monitorin	g Data							
Date	Tide	Location		DO	(mg/L)			Tby (NTU)			SS (mg/L	)	ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact Station				
14-Sep-06	mid-flood	WWA2	-	-	-			-	-	17.0	5.7	17.2	Muddy runoff was observed discharging into nearby gullies at Castle Peak Road from the site entrance of Slope A and muddy marine water was also observed near Seawall A and Eduring site inspection conducted by ET auditor on 14 September 2006. This might due to heavy rainstorm in preceding day (i.e. 13 September 2006). Although the exceedance of SS level was only marginal to the Baseline Check Criteria, the SS level at WWA2 was higher than that at control station, WRA2. The exceedance was unlikely due to the construction of the Seawalls, but still related to the Project. The Contractor was reminded to intercept stormwater entering the site, provide cover to exposed slopes and divert all runoff to desilting facilities before discharging.	to desilting tank and conducted regular clearing of the desiliting facility. The CT closely monitored the effectiveness of the temporary drainage system. With the remedial work implemented, the subsequent marine water quality monitoring data (16, 18	29-Sep-06	Refer to ET's field record & CT's daily records.
20-Sep-06	mid-ebb	WWFCZ1	-	-	-	•	-	-	-	13.0	12.2		No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at WWFCZ1 on 20 September 2006 by ET's field staff and no exceedances were recrded at other impact monitoring stations. The exceednace contributed by the nearby stations WRA1, WRA2, WRA3 and WWFCZ2 would be unlikely due to their normal SS levels. Hence, the exceedance would be unlikely caused by the construction works of the Project and might be due to natural variation.	No action	29-Sep-06	Refer to ET's field record & CT's daily records.

							Exceedance of	of Monitorin	g Data							
Date	Tide	Location		DO	(mg/L)			Tby (NTU)			SS (mg/L)		ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact Station				
22-Sep-06	mid-ebb	WWA2	-			-	6.5	6.8	7.4	-			No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at WWA2, WWA3 and WWFCZ2 on 22 September 2006 by ET's field staff. The exceedance levels were comparable to the levels recored at the control stations and the exceedances were marginal to the Baseline Check Criteria. Hence the exceedance would be unlikely caused by the construction works of the Project and might be due to natural variation of marine water. The Contractor was reminded to intercept stormwater entering the site, provide cover to exposed slopes and divert all runoff to desilting facilities before discharging.	No action	3-Oct-06	Refer to ET's field record & CT's daily records.
22-Sep-06	mid-ebb	WWA3	-	-	-	=	=	-	=	13.0	9.3	13.5	Ditto	Ditto	Ditto	Ditto
22-Sep-06	mid-ebb	WWFCZ2	-	-	-	-	-	-	-	13.0	13.5	15.7	Ditto	Ditto	Ditto	Ditto
25-Sep-06	mid-ebb	WWA1		-	-		6.5	4.4	7.1	13.0	10.0	13.3	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at WWA1, WWA2 and WWA3 on 25 September 2006 by ET's field staff. The exceedances were marginal to the Baseline Check Criteria. During monitoring period, rock fill was being unloaded from the barge at Seawall A and no reclmation works was conducted. Hence the exceedances would be unlikely caused by the construction works of the Project and might be due to natural variation of marine water. The Contractor was reminded to intercept stormwater entering the site, provide cover to exposed slopes and divert all runoff to desiting facilities before discharging.	No action	3-Oct-06	Refer to ET's field record & CT's daily records.
25-Sep-06	mid-ebb	WWA2	-	-	-	-	6.5	4.6	7.3	13.0	8.2	17.8	Ditto	Ditto	Ditto	Ditto
25-Sep-06	mid-ebb	WWA3	-	-	-	-	6.5	4.7	11.1	13.0	12.0	17.8	Ditto	Ditto	Ditto	Ditto

Marine Water Exceedance Investigation Summary **Exceedance of Monitoring Data** DO (mg/L) Tby (NTU) SS (mg/L) Date Tide Location ET's investigation CT's action Closing Date Remark Baseline Control Level at Baseline Control Level at Baseline Control Level at Position Check Station Impact Check Station Impact Check Station Impact Station 3-Oct-06 mid-ebb WWA2 13.0 15.7 No muddy water and abnormal No-action 13-Oct-06 Refer to ET's 7.2 field record, activities which would likely cause deterioration of water photos & CT's quality were observed at daily records. WWA2 and WWA3 on 3 October 2006 by ET's field staff. The weather was sunny and fine during monitoirng period. In addition, there were no exceedances of Tby levels on the same stations on the same day. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains. 3-Oct-06 mid-ebb WWA3 13.0 9.5 13.8 Ditto Ditto Ditto Ditto 13-Oct-06 Refer to ET's 5-Oct-06 mid-ebb WWA2 6.5 7.4 8.8 13.0 11.2 14.2 No muddy water and abnormal No-action activities which would likely field record. cause deterioration of water photos & CT's daily records. quality were observed at all impact monitoring stations on 5 October 2006 by ET's field staff. The weather was sunny and fine during monitoring period. There were no filling activities conducted on the same day. In general, the exceedance levels were comparable to the levels recorded at control stations. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains. Ditto 5-Oct-06 mid-ebb WWA3 6.5 6.5 8.7 13.0 12.7 14.8 Ditto Ditto Ditto WWFCZ1 5-Oct-06 mid-ebb 6.5 7.0 9.2 13.0 11.0 13.5 Ditto Ditto Ditto Ditto

						ı	Exceedance	of Monitorin	g Data							
Date	Tide	Location		DO	(mg/L)			Tby (NTU)			SS (mg/L	.)	ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact Station				
5-Oct-06	mid-flood	WWA1	-	-	-	-	-	-	-	17.0	14.8	21.3	Ditto	Ditto	Ditto	Ditto
5-Oct-06	mid-flood	WWA3	-	-	-	-	6.6	6.2	7.0	17.0	8.3	22.7	Ditto	Ditto	Ditto	Ditto
5-Oct-06	mid-flood	WWFCZ1	-	-	-	-	6.6	7.1	8.1	-	-	-	Ditto	Ditto	Ditto	Ditto
5-Oct-06	mid-flood	WWFCZ2	-	-	-	-	6.6	7.7	7.8	-	-	-	Ditto	Ditto	Ditto	Ditto
9-Oct-06	mid-ebb	WWA1	•	-	-	-	6.5	11.1	14.1	13.0	18.3		No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 9 October 2006 by ET's field staff. No marine works were being conducted on the same day. In general, the exceedance levels were comparable to the levels recorded at control stations. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No-action	20-Oct-06	Refer to ET's field record, photos & CT's daily records.
9-Oct-06	mid-ebb	WWA2	-	-	-	-	6.5	9.5	10.9	-	-	-	Ditto	Ditto	Ditto	Ditto
9-Oct-06	mid-ebb	WWA3	-	-	-	-	6.5	11.1	12.4	13.0	16.8	18.5	Ditto	Ditto	Ditto	Ditto
9-Oct-06	mid-ebb	WWFCZ2	-	-	-	-	6.5	7.0	8.1	-	-	-	Ditto	Ditto	Ditto	Ditto
9-Oct-06	mid-flood	WWA1	-	-	-	-	6.6	10.1	11.1	17.0	15.8	19.3	Ditto	Ditto	Ditto	Ditto
9-Oct-06	mid-flood	WWA2	-	-	-	-	-	-	-	17.0	14.8	20.3	Ditto	Ditto	Ditto	Ditto
9-Oct-06	mid-flood	WWA3	-	-	-	-	6.6	10.2	10.6	-	-	-	Ditto	Ditto	Ditto	Ditto
9-Oct-06	mid-flood	WWFCZ1	-	-	-	-	-	-	-	17.0	25.5	26.0	Ditto	Ditto	Ditto	Ditto
9-Oct-06	mid-flood	WWFCZ2	-	-	-	-	6.6	6.8	7.7	-	-	-	Ditto	Ditto	Ditto	Ditto

							Exceedance	of Monitorin	ng Data	1						
Date	Tide	Location		DO	(mg/L)			Tby (NTU)			SS (mg/L)		ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact Station				
11-Oct-06	mid-ebb	WWFCZ1	•		•	-	6.5	6.8	8.1				No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 11 October 2006 by ET's field staff. No marine works were being conducted on the same day. In general, the exceedance levels were comparable to the levels recorded at control stations. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No action	26-Oct-06	Refer to ET field record photos & CT daily record
11-Oct-06	mid-flood	WWA1	-	-	-	-	-	-	-	17.0	11.2	19.7	Ditto	Ditto	Ditto	Ditto
11-Oct-06	mid-flood	WWFCZ1	-	-	-	-	6.6	5.9	7.7	-	-	-	Ditto	Ditto	Ditto	Ditto
11-Oct-06	mid-flood	WWFCZ2	-	-	-	-	6.6	6.8	7.3	-	-	-	Ditto	Ditto	Ditto	Ditto
13-Oct-06	mid-ebb	WWA1	-	-	-	-	6.5	3.6	7.1		-	-	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 13 October 2006 by ET's field staff. No marine works were being conducted on the same day. The exceedance levels were marginal to the baseline check criteria. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm daries.	No action	26-Oct-06	Refer to ET's field record, photos & CT' daily records
13-Oct-06	mid-ebb	WWA3	-	-	-	-	-	-	-	13.0	7.5	14.0	Ditto	Ditto	Ditto	Ditto

				-		E	Exceedance	of Monitorin	g Data							
Date	Tide	Location		DO	(mg/L)			Tby (NTU)			SS (mg/L)		ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline	Control Station	Level at	Baseline Check	Control	Level at	Baseline	Control Station	Level at Impact Station				
20-Oct-06	mid-ebb	WWA1	-	Check	-	Impact .	-	Station	Impact .	<u>Check</u> 13.0	11.5	16.3	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 20 October 2006 by ET's field staff. No marine works were being conducted on the same day. The weather was sunny and fine during monitoring and the exceedance levels were marginal to the baseline check criteria. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No action	28-Oct-06	Refer to ET's field record 8 CT's daily records.
23-Oct-06	Mid-ebb	WWA3	-				6.5	5.0	7.8	13.0	18.8		No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 23 October 2006 by ET's field staff. No marine works were being conducted on the same day. The weather was sunny and fine during monitoring and the exceedance levels were marginal to the baseline check criteria. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm darins.	No action	8-Nov-06	Refer to ET's field record & CT's daily records.
23-Oct-06 23-Oct-06	Mid-ebb Mid-ebb	WWFCZ2 WWA1	-	-	-	-	- 6.5	5.0	7.2	13.0	10.2	14.0	Ditto Ditto	Ditto Ditto	Ditto Ditto	Ditto Ditto

						ı	Exceedance	of Monitorin	ng Data							
Date	Tide	Location		DO	(mg/L)			Tby (NTU)			SS (mg/L)	1	ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact Station				
25-Oct-06		WWFCZ1	-	-	-	-	-	-	-	17.0	18.3	20.5	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 25 October 2006 by ET's field staff. No marine works were being conducted on the same day. The weather was sunny and fine during monitoring and the exceedance levels were marginal to the baseline check criteria. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No action	8-Nov-06	Refer to ET's field record & CT's daily records.
4-Nov-06	Mid-ebb	WWFCZ1	-	•		•	•			13.0	18.8	19.5	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 4 Nov 2006 by ET's field staff. No marine works were being conducted on the same day. The SS level at WWFCZ1 was comparable to that at control station WFCR1, where high SS level was also recorded. In addition, the location of WWFCZ1 is far away from the construction site and no exceedances were recorded at other impact stations. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No action	24-Nov-06	Refer to ET field record a CT's daily records.

							Exceedance (	of Monitorin	g Data							
Date	Tide	Location		DO	(mg/L)			Tby (NTU)			SS (mg/L)	)	ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact Station				
6-Nov-06	Mid-ebb	WWA1	-	-	-	-		-	-	13.0	10.5	20.3	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at WWA1, WWA2, WWA3 and WWFCZ2 on 6 Nov 2006 by ET's field staff. No marine works were being conducted on the same day. High SS levels were also recorded at control stations, WRA1, WRA2, WRA3 and WFCR2. In addition, the location of WWFCZ2 is far away from the construction site. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No action	24-Nov-06	Refer to ET's field record 8 CT's daily records.
6-Nov-06	Mid-ebb	WWA2	-	-	-	-	-	-	-	13.0	11.5	17.3	Ditto	Ditto	Ditto	Ditto
6-Nov-06	Mid-ebb	WWA3	-	-	-	-	-	-	-	13.0	13.3	18.5	Ditto	Ditto	Ditto	Ditto
6-Nov-06	Mid-ebb	WWFCZ2	-	-	-	-	-	-	-	13.0	12.3	17.0	Ditto	Ditto	Ditto	Ditto
8-Nov-06	Mid-ebb	WWA1	-	-				-		13.0	16.5	21.7	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 8 Nov 2006 by ET's field staff. No marine works were being conducted on the same day. HIgh SS levels were also recorded at control stations. In addition, the locations of WWFCZ1 and WWFCZ2 are far away from the construction site. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No action	24-Nov-06	Refer to ET's field record & CT's daily records.

							Exceedance	of Monitorin	ng Data							
Date	Tide	Location		DO	(mg/L)			Tby (NTU)			SS (mg/L	-)	ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact Station				
8-Nov-06	Mid-ebb	WWA2	-	-	-	-	-	-	-	13.0	13.5	21.7	Ditto	Ditto	Ditto	Ditto
8-Nov-06	Mid-ebb	WWA3	-	-	-	-	-	-	-	13.0	16.2	23.0	Ditto	Ditto	Ditto	Ditto
8-Nov-06	Mid-ebb	WWFCZ1	-	-	-	-	-	-	-	13.0	22.2	24.7	Ditto	Ditto	Ditto	Ditto
8-Nov-06	Mid-ebb	WWFCZ2	-	-	-	-	-	-	-	13.0	19.2	31.0	Ditto	Ditto	Ditto	Ditto
8-Nov-06	Mid-flood	WWFCZ2	-	-	-	-	-	-	-	17.0	29.8	43.8	Ditto	Ditto	Ditto	Ditto
13-Nov-06	Mid-ebb	WWFCZ1	-	-	-	-	-	-	-	13.0	5.5		No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 13 Nov 2006 by ET's field staff. No marine works were being conducted on the same day. The location of WWFCZ1 is far away from the construction site and no exceedances were recorded at WWA1, WWA2 and WWA3, which are closer to the construction site. Hence, the exceedance was unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No action	5-Dec-06	Refer to ET field record . CT's daily records.

						E	Exceedance	of Monitorin	ng Data				]			
Date	Tide	Location		DO	(mg/L)			Tby (NTU)			SS (mg/L)	ı	ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact Station				
17-Nov-06	Mid-flood	WWA1	•	•	•	-				17.0	9.0	19.0	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 17 Nov 2006 by ET's field staff. No marine works were being conducted on the same day. It was the only one exceedance recorded on that day and the weather condition is sunny and fine during marine water quality monitoring. Hence, the exceedance was unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No action	5-Dec-06	Refer to ET field record CT's daily records.
20-Nov-06	Mid-ebb	WWFCZ2		-	-	-	-	-	-	13.0	9.5	16.3	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 20 Nov 2006 by ET's field staff. No marine works were being conducted on the same day. The location of WWFCZ2 is far away from the construction site and no exceedances were recorded at WWA1, WWA2 and WWA3, which are closer to the construction site. Hence, the exceedance was unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No action	5-Dec-06	Refer to ET field record CT's daily records.

						ı	Exceedance	of Monitorin	ng Data							
Date	Tide	Location		DO	(mg/L)			Tby (NTU)			SS (mg/L)	1	ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact Station				
24-Nov-06	Mid-ebb	WWFCZ1	-	-	-	·	-	-	-	13.0	14.3	22.3	No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 24 Nov 2006 by ET's field staff. No marine works were being conducted on the same day. The location of WWFCZ1 is far away from the construction site and no exceedances were recorded at WWA1, WWA2 and WWA3, which are closer to the construction site. In addition, high SS level (14.3 mg/L) was recorded at WFCZR1. Hence, the exceedance was unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site	No action	7-Dec-06	Refer to ET's field record & CT's daily records.
27-Nov-06	Mid-ebb	WWA1	-	-	-	-	-	-		13.0	10.2	15.0	effluent into storm drains.  No muddy water and abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 27 November 2006 by ET's field staff. No marine works were being conducted on the same day. The exceedances were marginal to the Baseline Check Criteria and high SS levels were also recorded at the control stations, WRA1 and WRA2. Hence, the exceedances were unlikely due to the construction works of the Project and might be due to natural variation of marine water. Nevertheless, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No action	7-Dec-06	Refer to ET's field record 8 CT's daily records.
27-Nov-06	Mid-ebb	WWA2	-	-	-	-	-	-	-	13.0	8.3	16.0	Ditto	Ditto	Ditto	Ditto

						ı	Exceedance	of Monitorin	ng Data							
Date	Tide	Location		DO	(mg/L)			Tby (NTU)			SS (mg/L)	)	ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact Station				
4-Dec-06	Mid-ebb	WWA1		•	•	•	•		-	13.0	10.5	14.5	Neither muddy water nor abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 04 Dec 2006 by ET's field staff. No marine works were being conducted on the same day. The exceedances were marginal against the Baseline Check Criteria. High levels of SS were also recorded at respective control stations. The exceedances are considered unlikely due to the construction activities of the Project. The Contractor, however, was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No action	2-Jan-07	Refer to ET's field record & CT's daily records.
4-Dec-06	mid-ebb	WWA3	-	-	-	-	-	-	-	13.0	7.5	13.5	Ditto	Ditto	Ditto	Ditto
6-Dec-06	mid-ebb	WWFCZ1						-	-	13.0	11.3	24.0	Neither muddy water nor abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 06 Dec 2006 by ET's field staff. No marine works were being conducted on the same day. The location of WWFCZ1 is far away from the construction site and no exceedances were recorded at WWA1, WWA2 and WWA3, which are closer to the construction site. The exceedance was unlikely due to the construction works of the Project and might be due to natural variation of marine water. The Contractor, however, was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to maintainze run-off of muddy site effluent into storm drains.	No action	2-Jan-07	Refer to ET's field record & CT's daily records.

							Exceedance	of Monitorin	g Data							
Date	Tide	Location		DO	(mg/L)			Tby (NTU)			SS (mg/L)		ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline	Control Station	Level at	Baseline Check	Control Station	Level at	Baseline	Control Station	Level at Impact Station				
8-Dec-06	Mid-ebb	WWFCZ2		<u>Check</u>	- ·	Impact	- Ciligar		Impact	<u>Check</u> 13.0	19.8	20.7	No muddy water and abnormal activities were observed by our field staff during marine water quality monitoring. The location of WWFCZ2 is far away from the construction sites and no exceedances were recorded at other impact monitoring stations (WWA1, WWA2 and WWA3), which are closer to the construction site, on 08 December 2006. In addition, higher level of SS (19.8 mg/L) was also recorded at control station, WFCR2. Hence, the exceedance is considered unlikely due to the construction activities of the Project. However, the Contractor was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No action	21-Dec-06	Refer to ET's field record 8 CT's daily records.
13-Dec-06	Mid-ebb	WWA2	•		•	•	•	-	,	13.0	7.8	14.2	Nains.  Neither muddy water nor abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 13 Dec 2006 by ET's field staff. No marine works were being conducted on the same day. High levels of SS were also recorded at respective control stations. The exceedances are considered unlikely due to the construction activities of the Project. The Contractor, however, was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No action	2-Jan-07	Refer to ET' field record CT's daily records.
13-Dec-06	Mid-flood	WWFCZ1	-	-	-	-	-	-	-	13.0	11.5	22.0	Ditto	Ditto	Ditto	Ditto
13-Dec-06	Mid-ebb	WWA2	-	-	-	-	-	-	-	17.0	12.2	20.2	Ditto	Ditto	Ditto	Ditto

							Exceedance (	of Monitorin	ng Data							
Date	Tide	Location		DO	(mg/L)			Tby (NTU)			SS (mg/L	)	ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact Station				
20-Dec-06	Mid-ebb	WWA1			-			-	-	13.0	12.7	15.8	Neither muddy water nor abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 20 Dec 2006 by ET's field staff. No marine works were being conducted on the same day. High levels of SS were also recorded at control station, WRA1. The exceedance is considered unlikely due to the construction activities of the Project. The Contractor, however, was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No action	5-Jan-07	Refer to ET'field record CT's daily records.
22-Dec-06	Mid-flood	WWFGZ2	-		-			-	-	13.0	14.2	17.8	Neither muddy water nor abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 22 Dec 2006 by ET's field staff. No marine works were being conducted on the same day. In addition, the loaction of WWFCZ2 is far away from the the construction sites. High level of SS was also recorded at control station, WFCZR2. The exceedance is considered unlikely due to the construction activities of the Project. The Contractor, however, was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No action	5-Jan-07	Refer to ETifield records.  CT's daily records.

						ļ	Exceedance	of Monitorin	g Data							
Date	Tide	Location		DO	(mg/L)			Tby (NTU)			SS (mg/L	)	ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact Station				
27-Dec-06	Mid-ebb	WWA1			-	•	-			13.0	10.2	14.7	Neither muddy water nor abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 22 Dec 2006 by ET's field staff. No marine works were being conducted on the same day. High level of SS was also recorded at control station, WFCZR2. In addition, the loaction of WWFCZ2 is far away from the the construction sites. The exceedances are considered unlikely due to the construction activities of the Project. The Contractor, however, was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No action	5-Jan-07	Refer to ET field record CT's daily records.
27-Dec-06	Mid-ebb	WWA2	-	-	-	-	-	-	-	13.0	8.5	16.7	Ditto	Ditto	Ditto	Ditto
27-Dec-06	Mid-flood	WWA1	-	-	-	-	-	-	-	17.0	14.8	20.0	Ditto	Ditto	Ditto	Ditto
27-Dec-06	Mid-flood	WWFCZ2	-	-	-	-	-	-	-	17.0	12.5	17.2	Ditto	Ditto	Ditto	Ditto

						I	Exceedance	of Monitorin	g Data							
Date	Tide	Location		DO	(mg/L)			Tby (NTU)			SS (mg/L)		ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact Station				
4-Jan-07	Mid-flood	WWFGZ2	•	-	-	•	-		•	17.0	17.2	17.3	Neither muddy water nor abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 04 January 2007 by ET's field staff. The location of WWFCZ2 is far away from the construction sites and no exceedances were recorded at other impact monitoring stations (WWA1, WWA2 and WWA3), which are closer to the construction site. In addition, high level of SS (17.2 mg/L) was recorded at control station, WFCR2. No marine works were being conducted during monitoring period. The exceedance is considered unlikely due to the construction activities of the Project. The Contractor, however, 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	No action	18-Jan-07	Refer to ET' field record CT's daily records.
6-Jan-07	Mid-ebb	WWA2	•	-	-	·	-		·	13.0	12.8	17.3	drains.  Neither muddy water nor abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 06 January 2007 by ET's field staff. Higher levels of SS (>10 mg/L) was recorded at control stations. In addition, the location of WWFCZ2 is far away from the construction sites. No marine works were being conducted on the same day. The exceedances are considered unlikely due to the construction activities of the Project. The Contractor, however, was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No action	22-Jan-07	Refer to ET's field record & CT's daily records.
6-Jan-07	Mid-ebb	WWA3	-	_	_	-	_	-	-	13.0	14.2	14.3	Ditto	Ditto	Ditto	Ditto

Marine Water Exceedance Investigation Summary

						- 1	Exceedance	of Monitorir	ng Data							
Date	Tide	Location		DO	(mg/L)			Tby (NTU)			SS (mg/L)	)	ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact Station				
6-Jan-07	Mid-ebb	WWFCZ2	-	-	-	-	6.5	5.5	7.6	13.0	10.8	14.8	Ditto	Ditto	Ditto	Ditto
6-Jan-07	Mid-flood	WWFCZ2	-	-	-	-	6.5	5.7	7.0	-	-	-	Ditto	Ditto	Ditto	Ditto
8-Jan-07	Mid-ebb	WWFCZ2	-	-	-	-	-	-	-	13.0	10.8	19.8	Neither muddy water nor abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 08 January 2007 by ET's field staff. No marine works were being conducted on the same day. In addition, the location of WWFCZ2 is far away from the construction sites. The exceedances are considered unlikely due to the construction activities of the Project. The Contractor, however, was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No action	22-Jan-07	Refer to ET field record CT's daily records.
8-Jan-07	Mid-flood	WWA3	-	-	-	-	-	-	-	17.0	6.8	23.5	Ditto	Ditto	Ditto	Ditto
10-Jan-07	Mid-ebb	WWA1		-	•	-	-	-	-	13.0	10.2	16.0	Neither muddy water nor abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations on 10 January 2007 by ET's field staff. No marine works were being conducted on the same day. High SS levels (>10mg/L) were also recorded at respective control stations. The exceedances are considered unlikely due to the construction activities of the Project. The Contractor, however, was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No action	26-Jan-07	Refer to ET field record CT's daily records.
10-Jan-07	Mid-ebb	WWA3	-	-	-	-	-	-	-	13.0	13.5	14.5	Ditto	Ditto	Ditto	Ditto

							Exceedance	of Monitorin	ng Data				]			
Date	Tide	Location		DO	(mg/L)			Tby (NTU)			SS (mg/L)	1	ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline	Control	Level at	Baseline	Control	Level at	Baseline	Control	Level at				
22-Jan-07	Mid-ebb	WWFCZ2	-	Check	Station	impact	Check	Station	Impact	13.0	Station 5.8	14.0	Neither muddy water nor abnormal activities which would likely cause deterioration of water quality were observed at all impact monitoring stations by ET's fied staff on 22 January 2007. No marine works was conducted during monitoring period. The location of WWFCZ2 is far away from the construction site and no exceedances were recorded at other impact monitoring stations (WWA1, WWA2 and WWA3), which are closer to the construction site. The exceedance is considered unlikely due to the construction activities of the Project. The Contractor, however, was reminded to maintain regular clearance of perimeter channels at site boundaries to intercept stormwater entering the site and implement appropriate mitigation measures to minimize run-off of muddy site effluent into storm drains.	No action	2-Feb-07	Refer to ET's field record & CT's daily records.
31-Jan-07	Mid-flood	WWFC21	-	-	-	-	-	-	-	17.0	9.8	28.8	Neither muddy water nor abnormal activities were observed by our field staff during marine water quality monitoring. The silt curtain at Seawall B and desilting facilities were properly installed. No marine works was conducted during monitoring period. The monitoring station, WWFCZ1, is located far away from the site. SS Levels at other impact monitoring stations (WWA1, WWA2 and WWA3), locating closer to the construction site, were well within the Action/ Limit Levels. It is likely that the exceedance on 31 Jan 2007 was attributed to an unidentified source near WWFCZ1, and not related to the construction activities of the Project. Subsequent marine water quality monitoring was conducted on 02 February 2007, the Action/Limit Level was satisifed at all impact monitoring stations.	No action	8-Feb-07	Refer to ET's field record & CT's daily records.

						I	Exceedance (	of Monitorin								
Date	Tide	Location	DO (mg/L)				Tby (NTU)			SS (mg/L)			ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact Station				
5-Feb-07	Mid-ebb	WWA1				-	-	-	•	13.0	17.3	18.3	The silt curtain at Seawall B and desilting facilities were properly installed during monitoring period. Neither muddy water nor abnormal activities were observed by our field staff on 05 February 2007. No marine works was conducted during monitoring period. In addition, high SS levels were recorded at respective control stations (9.5 – 17.3 mg/L). The exceedances were likely attributed from an unidentified source, and not related to the construction activities of the Project.	No action	15-Feb-07	Refer to ET's field record & CT's daily records.
5-Feb-07	Mid-ebb	WWA2	-	-	-	-	-	-	-	13.0	12.7	25.8	Ditto	Ditto	Ditto	Ditto
5-Feb-07	Mid-ebb	WWA3	-	-	-	-	-	-	-	13.0	10.2	15.2	Ditto	Ditto	Ditto	Ditto
5-Feb-07	Mid-ebb	WWFCZ1	-	-	-	-	-	-	-	13.0	9.5	13.3	Ditto	Ditto	Ditto	Ditto
5-Feb-07	Mid-flood	WWFCZ1	-	-	-	-	-	-	-	17.0	16.5	20.0	Ditto	Ditto	Ditto	Ditto
7-Feb-07	Mid-ebb	WWFCZ1		-		-	-	-	•	13.0	9.2	13.8	Neither muddy water nor abnormal activities were observed by our field staff on 07 February 2007. No marine works was conducted during monitoring period. the monitoring station, WWFCZ1, is located far away from the site. SS Levels at other impact monitoring stations (WWA1, WWA2 and WWA3), locating closer to the construction site, were well within the Action/ Limit Levels. The exceedance was likely attributed from an unidentified source, and not related to the construction activities of the Project.	No action	15-Feb-07	Refer to ET's field record & CT's daily records.
9-Feb-07	Mid-ebb	WWA1	-	-	-	-	-	-	-	13.0	10.8	13.7	No marine works was conducted during monitoring period. Neither muddy water nor abnormal activities were observed by our field staff during marine water quality monitoring. In addition, high SS levels were recorded at respective control station (10.8 mg/L). The exceedances were likely attributed from an unidentified source, and not related to the construction activities of the Project.	No action	23-Feb-07	Refer to ET's field record & CT's daily records.

Contract No. HY/2005/06

Castle Peak Road Improvement - West of Tsing Lung Tau (EP No. EP-219/2005)

Marine Water Exceedance Investigation Summary

Date		Location				I	Exceedance	of Monitorin								
	Tide		DO (mg/L)				Tby (NTU)			SS (mg/L)			ET's investigation	CT's action	Closing Date	Remark
			Position	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact	Baseline Check	Control Station	Level at Impact Station				
16-Feb-07	Mid-flood	WWFCZ2			•	-	-	•	-	17.0	5.3	18.7	The site was closed during Chinese New Year. No marine works was conducted during monitoring period. The location of WWFCZ2 is far away from the construction site and SS Levels at other impact monitoring stations (WWA1, WWA2 and WWA3), locating closer to the construction site, were well within the Action/ Limit Levels. It is likely that the exceedance on 16 February 2007 was attributed to an unidentified source, and not related to the construction activities of the Project, however, the Contractor was reminded to repair the silt curtain promptly to prevent the propagation of sediment plume.	No action	2-Mar-07	Refer to ET field record CT's daily records.