

Airport Management Services Limited

## SkyCity Golf Course EM&A

### Monthly Impact Report

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September 2006

11 October 2006

Report no: 01332R0081



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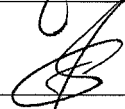
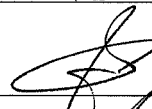
September 2006

**Author:** Adi LEE

**Checker:** Coleman NG

**Approver:** Coleman NG

**Report no:** 01332R0081



**Date:**

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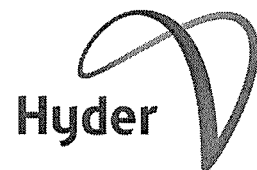
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Consulting

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# 1 Executive Summary

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The purpose of this Project is to construct and operate a 9-hole Golf Course at the east side of the North Commercial District (NCD) on the Airport Island as an interim arrangement prior to the area's future development as a business park (see Figure 1-1). The proposed interim golf facility, known as "SkyCity Golf Course" is intended to serve airport passengers, overseas visitors and airport workers until August 2013.

The Project will be managed by Airport Management Services Limited (AMS) who have employed a Works Contractor, Wing Fat Construction Co. Ltd., to carry out the construction works. Hyder Consulting have been employed as the Environmental Team (ET) for the Construction Period and have engaged ALS Technichem Pty Ltd as the HOKLAS accredited testing laboratory to carry out marine water analysis.

The construction work commenced on 7 March 2006 and it is anticipated to last for a period of six to seven months. According to the approved EM&A Manual, impact monitoring during the Construction Period is required for suspended solids, dissolved oxygen and turbidity.

The monthly site audit revealed that there were no significant non-compliances in terms of water, air, noise, waste or landscape and visual, although the Environmental Team made a number of recommendations to the Works Contractor to improve environmental conditions.

Impact monitoring was carried out during August 2006 in accordance with the approved EM&A Manual. Monitoring was carried out on 1, 5, 9, 12, 16, 19, 23, 26 and 30 September. The monitoring results are detailed in this report, which complies with the reporting requirements stated in the approved EM&A Manual. There was no exceedance of Action/Limit Levels of marine water quality monitoring during September 2006.

There were no complaints received and no notifications of summons.

Overall, there are no adverse environmental impacts caused by the Works during the reporting month, although there is room for improvement in overall site environmental management – recommendations have been made and will be followed up in due course.

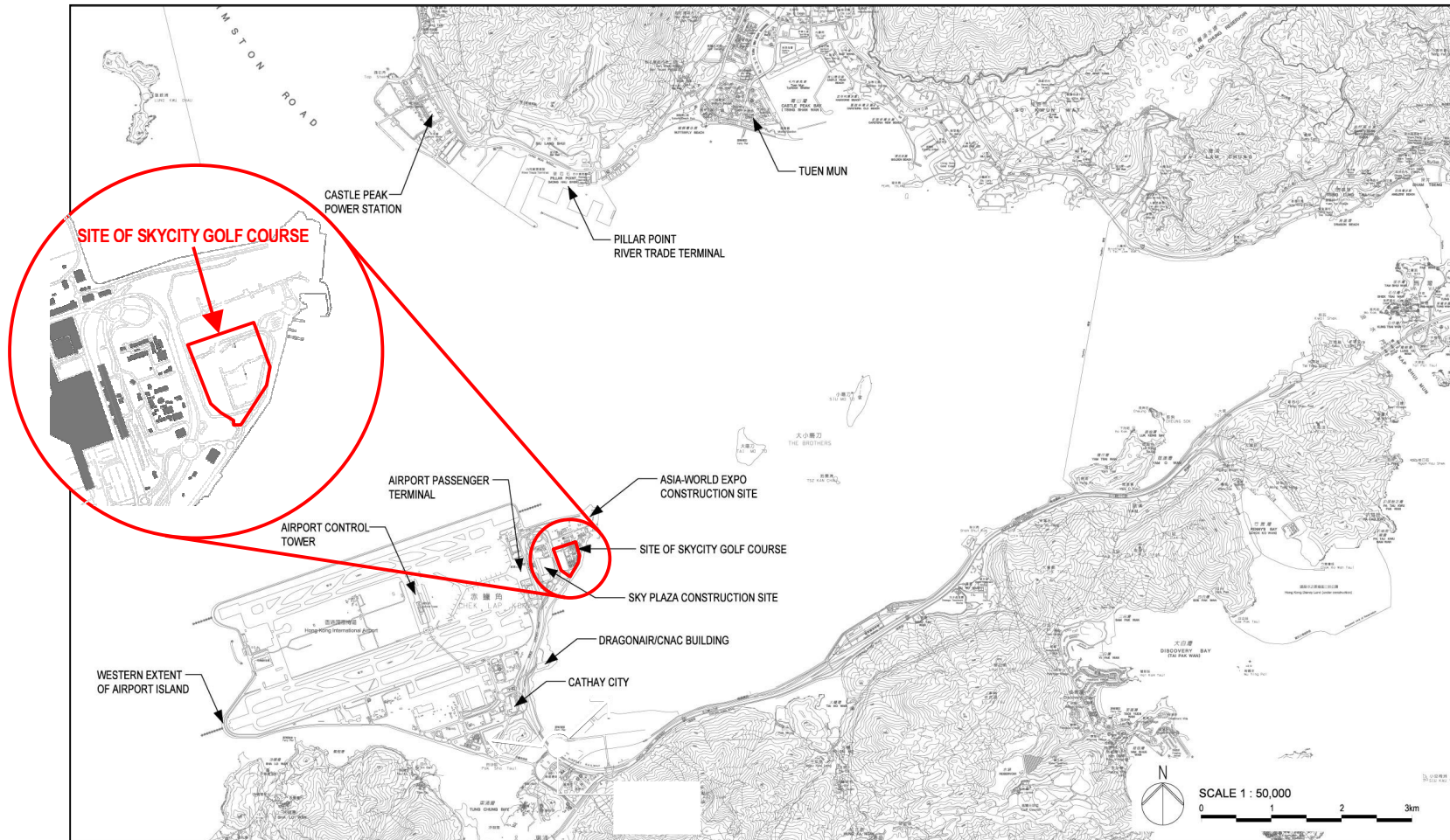


Figure 1-1 Location of SkyCity Golf Course on the Airport Island

## 2 Site Audit

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The monthly site audit examines the implementation status of environmental protection, mitigation and pollution control measures.

Appendix 1 contains the site audit checklist for September 2006. From this the following observations on the implementation status of environmental, mitigation and pollution control measures can be made. Areas for improvement and follow-up are indicated on the checklist and have been highlighted below. The Works Contractor is aware of any shortcomings and has been advised by the ET of any improvements that are required.

### 2.1 Water Quality

A vehicle wheelwash has been provided at the site egress point. However, the Contractor was reminded to the silt accumulated in the wheel washing bay frequently. The remaining perimeter U-channel of some 20m along the southern part of the site is being constructed.

As indicated by the Contractor, no water has been discharged from the site during the reporting month. Only little rainfall occurred during the reporting month. Rainwater was collected in the excavated lake bowls. During the site audit, it was observed that the placement of the impermeable liner for the artificial lakes was completed. Rainwater was found containing in the lakes.

It is noted that a Discharge Licence under the Water Pollution Control Ordinance has been issued by EPD to the Contractor. The Contractor is reminded to keep the license on site for inspection. The Contractor is also been reminded to make silt traps/settlement tanks available on-site in case these are needed for discharge off-site.

### 2.2 Air Quality

No adverse air quality caused by the construction activities as observed. However, the Contractor was reminded to provide water spray to the unpaved haul roads and areas frequently.

### 2.3 Noise

No significant noise problems were noted as noise sensitive receivers are far away from the site.

### 2.4 Waste/Chemical Management

Three-colour recycling bins have been placed near to the Contractor's site office. The Contractor has registered as a Waste Producer under the Waste Disposal Ordinance. It was observed that chemical waste storage has been provided.

However, the Contractor was reminded to provide drip trays for the oil drums standing on bare ground near the site office.

## 2.5 Landscape and Visual

The site is completely surrounded by a hoarding except a section where the construction of outfall no. 8 was being undertaken and there are no landscape or visual issues at this time.

## 2.6 General

The Environmental Permit is displayed at the entrance to the site as required. Although the Contractor has applied and/or received other permits and licences relating to environmental protection, these are not filed in an accessible manner. The Contractor was recommended to ensure that all relevant permits and licences are easily available for inspection, by both the ET and also by EPD.

Overall, the site operation is acceptable from an environmental point of view, but there is room for improvement. The Contractor has been advised of those areas which require immediate attention and this will be followed-up during the next site audit.



### 3 Marine Water Quality EM&A

Monitoring of Dissolved Oxygen (DO) concentration in mg/l, Suspended Solids (SS) in mg/l and turbidity in NTU, was carried out by the ET to ensure that any deterioration in marine water quality could be readily detected and timely action could be taken to rectify the situation if this was due to site activities. DO and turbidity were measured *in-situ* whilst SS was determined in laboratory.

Other parameters, such as water depth, sea temperature, salinity and DO saturation are recorded for reference, and weather conditions, sea conditions, tidal stage and any particular site activities are recorded for information.

## 3.1 Monitoring Results

### 3.1.1 Summary

A summary of monitoring results for the reporting month is provided in Table 3-1, below. Detailed results are provided in Appendix 2, in which exceedances of Action/Limit (A/L) Levels are highlighted.

Station		Temperature (°C)	Salinity (mg/l)	DO Saturation (%)	DO Concentration (mg/l)	Turbidity (NTU)	SS (mg/l)
C1	<b>Mean</b>	27.2	26.5	80.7	5.7	4	5
	<b>Maximum</b>	30.3	32.0	95.6	7.0	7	9
	<b>Minimum</b>	24.9	12.1	52.8	3.7	3	2
C2	<b>Mean</b>	27.0	26.6	79.5	5.7	3	5
	<b>Maximum</b>	30.2	32.0	96.4	7.0	5	8
	<b>Minimum</b>	24.7	12.4	53.4	3.8	2	2
M1	<b>Mean</b>	27.0	26.5	80.0	5.7	4	5
	<b>Maximum</b>	30.1	32.1	95.5	7.0	6	9
	<b>Minimum</b>	24.8	12.3	52.7	3.8	2	2
M2	<b>Mean</b>	27.1	26.6	80.3	5.7	4	5
	<b>Maximum</b>	30.2	32.1	95.4	7.0	6	8
	<b>Minimum</b>	24.8	12.3	53.0	3.8	3	2

Table 3-1 Summary of Impact Monitoring Data

### 3.1.2 Equipment and Methodology

Because of the relatively shallow water, *in-situ* measurements and water sampling were conducted at only one water depth – the mid-depth. Water samples for all monitoring parameters were collected, stored, preserved and analysed according to *APHA Standard Methods for the Examination of Water and Wastewater, 19<sup>th</sup> Edition, #17*.

*In-situ* DO concentration, turbidity (and temperature, salinity and DO saturation) were carried out using a YSI Model 6820 CE-C-M-Y multi-parameter meter:

Parameter	YSI Model 6820 CE-C-M-Y		
	Range	Resolution	Accuracy
DO Concentration	0 to 50 mg/l	0.01 mg/l	0 to 20 mg/l: $\pm 2\%$ of reading or 0.2 mg/l, whichever is greater; 20 to 50 mg/l: $\pm 6\%$ of reading
DO Saturation	0 to 500%	0.1%	0 to 200%: $\pm 2\%$ of reading or 2% air saturation, whichever is greater; 200 to 500%: $\pm 6\%$ of reading
Turbidity	0 to 1,000 NTU	0.1 NTU	$\pm 2\%$ of reading or 0.3 NTU, whichever is greater
Temperature	-5 to +70°C	0.01°C	$\pm 0.15^\circ\text{C}$
Salinity	0 to 70 ppt	0.01 ppt	$\pm 1\%$ of reading or 0.1 ppt, whichever is greater

**Table 3-2** *In-situ* Monitoring Equipment Details

A Kahlisco water sampler was used to obtain the water sample for subsequent SS analysis. Water samples were collected in high density polythene bottles, packed in ice (cooled to 4°C without being frozen), and delivered to ALS' laboratory (HOKLAS accredited) immediately after completion of monitoring. The analysis follows *APHA Standard Methods #2540D*.

A Global Positioning System (GPS) was used to determine the exact monitoring location and water depth was determined using an echo-sounder.

### 3.1.3 Maintenance and Calibration

All *in-situ* monitoring instruments are calibrated and certified by ALS at 3-monthly intervals throughout the marine water quality monitoring programme.

For DO, the probe (YSI 6820) is calibrated once per monitoring day by the wet bulb method. Calibration at ALS is carried out once every three months in a water sample of known dissolved oxygen concentration. The sensor is immersed in the water and after thermal equilibration, the known mg/l value is keyed in and the calibration is carried out automatically.

For turbidity, the probe (YSI 6820) is calibrated with a solution of known NTU at ALS once every three months. Calibration as per dissolved oxygen, above.

Calibration details are provided in Appendix 3.

### 3.1.4 Parameters Monitored

The following parameters are monitored and compared to A/L Levels:

- Dissolved Oxygen (DO)
- Suspended Solids (SS)
- Turbidity

Other parameters, such as water depth, sea temperature, salinity and dissolved oxygen saturation were recorded for reference, and weather conditions, sea conditions, tidal stage and any particular site activities were recorded for information.

### 3.1.5 Monitoring Locations

Monitoring locations together with grid references are shown in Figure 3-2. Control Stations are designated C1 and C2 and Monitoring Stations are designated M1 and M2.

### 3.1.6 Monitoring Date, Time, Frequency and Duration

Monitoring of marine water quality is carried out twice-weekly during mid-ebb and mid-flood tides. Table 3-3, below, provides details of the monitoring dates, times and duration:

Date	Duration of Ebb Tide	Monitoring at Mid-Ebb	Duration of Flood Time	Monitoring at Mid-Flood
1/9/06	04:43 to 07:43	06:13	17:11 to 20:11	18:41
5/9/06	09:30 to 12:30	11:00	17:02 to 20:02	18:32
9/9/06	12:30 to 15:30	14:00	06:04 to 09:04	07:34
12/9/06	14:27 to 17:27	15:57	08:43 to 11:46	10:16
16/9/06	06:46 to 09:43	08:16	19:37 to 22:37	21:07
19/9/06	09:52 to 12:52	11:22	16:55 to 19:55	18:25
23/9/06	12:03 to 15:03	13:33	05:45 to 08:45	07:15
26/9/06	13:25 to 16:25	14:55	07:36 to 10:36	09:06
30/9/06	04:03 to 07:03	05:33	16:30 to 19:30	18:00

**Table 3-3 Monitoring Date, Time, Frequency and Duration**

## 3.2 Action/Limit Levels

The A/L Levels for the impact monitoring stations (M1 and M2) were determined in the approved Interim Baseline Monitoring Report and are shown in Table 3-4:

Parameter	Action Level	Limit Level
DO Concentration	5 <sup>th</sup> percentile of baseline data = 7.0 mg/l, or 80% of the upstream control station	4.0 mg/l, or 70% of the upstream control station
Turbidity	95 <sup>th</sup> percentile of baseline data = 9.6 NTU, or 120% of the upstream control station	99 <sup>th</sup> percentile of baseline data = 10.5 NTU, or 130% of the upstream control station
SS	95 <sup>th</sup> percentile of baseline data = 9.4 mg/l, or 120% of the upstream control station	99 <sup>th</sup> percentile of baseline data = 9.9 mg/l, or 130% of the upstream control station

**Table 3-4 Action and Limit Levels for Water Monitoring Stations**

In case of exceedance of A/L Levels at M1 or M2, the Event/ Action Plan (shown in Table 3-5, below) shall be followed.

Event	Action	
	ET	Works Contractor
Exceedance of Action Level	<ol style="list-style-type: none"> <li>1. Identify the source(s) of impact. If not from the Project then provide justification and document this</li> <li>2. If exceedance is caused by the Project then inform Contractor</li> <li>3. Check monitoring data and Contractor's working methods</li> <li>4. Discuss possible mitigation measures with Contractor</li> <li>5. Repeat measurement on next day of exceedance</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm notification of the exceedance in writing</li> <li>2. Rectify any unacceptable practice</li> <li>3. Check all plant and equipment</li> <li>4. Amend working methods if appropriate</li> <li>5. Discuss possible mitigation measures with ET</li> <li>6. Implement the agreed mitigation measures</li> </ol>
Exceedance of Limit Level	<ol style="list-style-type: none"> <li>1. Identify the source(s) of impact. If not from the Project then provide justification and document this in the EM&amp;A Report</li> <li>2. If exceedance is caused by the Project then inform Contractor</li> <li>3. Check monitoring data and Contractor's working methods</li> <li>4. Agree mitigation measures with Contractor</li> <li>5. Ensure mitigation measures are implemented immediately</li> <li>6. Increase the monitoring frequency to daily until no further exceedance of Limit Level</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm notification of the exceedance in writing</li> <li>2. Rectify any unacceptable practice</li> <li>3. Check all plant and equipment</li> <li>4. Amend working methods if appropriate</li> <li>5. Agree possible mitigation measures with ET</li> <li>6. Implement the agreed mitigation measures immediately</li> </ol>

**Table 3-5 Event Action Plan for Marine Water Quality Monitoring**

### 3.3 Summary of Exceedances

#### 3.3.1 Review of Exceedances and Implications

There was no exceedance of Action/Limit Level of marine water quality monitoring during September 2006.

#### 3.3.2 Action Taken and Follow-up

As no exceedance of A/L Levels were recorded during the reporting month, no action or follow-up is deemed to be necessary.

### 3.4 Complaints and Notifications of Summons

#### 3.4.1 Complaints

No complaints were received during the reporting month and there are no outstanding follow-up issues to be addressed.

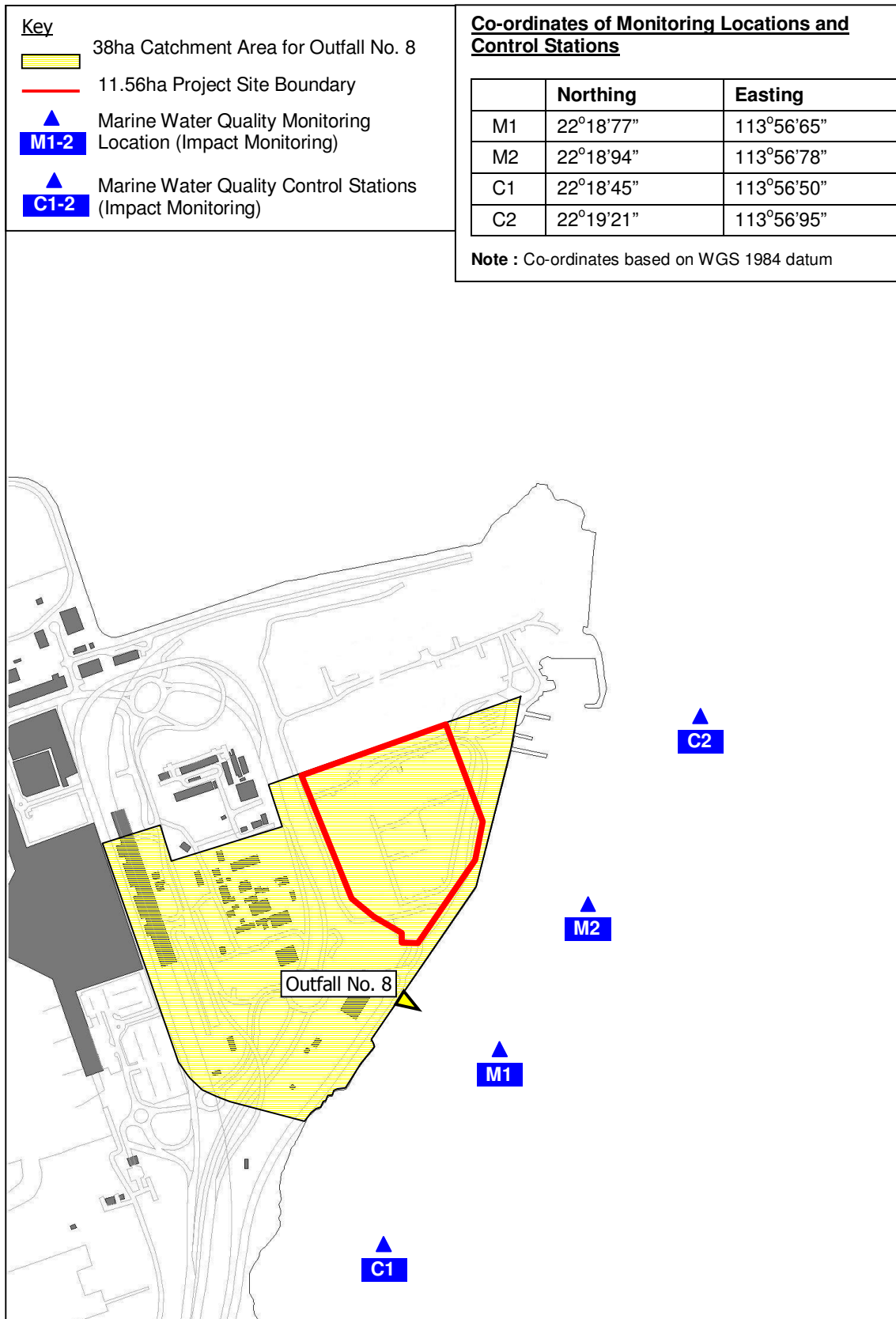
#### 3.4.2 Notifications of Summons

No notifications of summons were received during the reporting month and there are no outstanding follow-up issues to be addressed.

### 3.5 Works Programme and Future Monitoring Schedule

Appendix 4 shows the current work programme for the works and Appendix 5 provides the future schedule for marine water quality monitoring.

Based on the work to be carried out in future months, no significant impacts to marine water quality are anticipated.



**Figure 3-2 Location of Impact Monitoring Stations**

## 4 Comments, Recommendations and Conclusions

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The monthly site audit revealed that there was no significant non-compliance in terms of water, air, noise, waste or landscape and visual, although the Environmental Team made a number of recommendations to the Works Contractor to improve environmental conditions.

In terms of marine water quality monitoring, there were no exceedances of A/L Levels during September 2006.

There were no complaints received and no notifications of summons.

Overall, there are no adverse environmental impacts caused by the Works during the reporting month, although there is room for improvement in overall site environmental management – recommendations have been made and will be followed up in due course.

# Appendix 1

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## Site Audit Checklist



SkyCity Golf Course  
Environmental Team (ET) for Construction Period  
SITE INSPECTION/AUDIT CHECKLIST



Inspection No.

Inspection Date 29 Sep 06

Time 10:00 a.m.

Inspected By Client:   
Contractor: *Kit*   
ET: *Adi Lee*

Site *SkyCity Golf Course*

Contractor *Wing Fat*

**Weather**

Condition  Sunny  Fine  Overcast  Drizzle  Rain  Storm  Hazy

Temperature 30 °C Humidity  High  Moderate  Low

Wind  Calm  Light  Breeze  Strong Direction

	N/A or not observed	Yes	No	Photo/Remarks
<b>1 Water Quality</b>				
1.1 Perimeter cut off drains direct off-site water around the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.2 Is all surface runoff directed to silt removal facilities prior to discharge?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.3 Channels, earth bunds or sandbags direct surface runoff to silt removal facilities?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.4 Is groundwater pumped out from tunnelling and excavations discharged via silt removal facilities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.5 Are there silt removal facilities for settling surface runoff prior to discharge?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.5.1 Constructed from pre-formed individual cells or silt traps / basins?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.5.2 Adequate capacity?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.5.3 Free from silt and sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.5.4 Inspected and maintained after rain storm?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.6 Is drainage system well maintained to prevent flooding and overflow?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.7 Is exposed earth stabilized after earthworks have been completed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.8 Are exposed slope surfaces covered (by tarpaulin or other means)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.9 Are open stockpiles of excavated and construction materials covered during rainstorms?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.10 Any measures to prevent the washing away of excavated and construction materials e.g. sand/silt to drains?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.11 Are manholes covered and sealed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.12 Are vehicles and plant cleaned of earth, mud and debris before leaving the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.13 Are vehicle washing facilities provided at every site exit?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

SkyCity Golf Course  
Environmental Team (ET) for Construction Period  
SITE INSPECTION/AUDIT CHECKLIST

	N/A or not observed	Yes	No	Photo/Remarks
1.13.1 Wastewater treated in silt removal facility? Silt removal facility emptied of silt regularly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.13.2 Washing area and road exiting from washing facility paved?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.13.3 Access road has sufficient backfall toward washing facility or bunded to prevent of untreated wastewater?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.14 Equipment oil and lubrication replacements performed only in bunded maintenance area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.15 Drainage from maintenance area discharged via an oil interceptor?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.15.1 Oil and grease removed regularly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.16 Toilets that connect to foul sewer or chemical toilets provided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.17 Is debris and rubbish prevented from entering drains?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.18 Is Effluent Discharge Licence available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____

**2 AIR QUALITY**

2.1 Are hoarding not less than 2.4m tall provided beside roads or areas with public access?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
2.2 Are the roads and unpaved areas watered regularly to avoid dust generation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>see Note 4</u>
2.3 Are stockpiles of excavated material covered or regularly watered?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.4 Is stockpile of dusty materials kept to not extend beyond the pedestrian barriers, fencing or traffic cones?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.5 Is the public road around the site entrance kept clean and free from dust?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
2.6 Do the site vehicles use the vehicle wash facility at the site exits?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
2.7 Are materials transported on trucks covered?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
2.8 Are dusty materials sprayed prior to loading?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
2.9 Are all truck loads to a level within the side and tail boards?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
2.10 Are areas where demolition/site clearance/breaking take place regularly watered?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.11 Is every stock of more than 20 bags of cement or day covered entirely by impervious sheeting or placed in an area sheltered on the top and the three sided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.12 Are potentially dusty demolished items/debris covered or placed in a three sided shelter?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.12.1 Is the debris sprayed with water/dust suppression chemical to keep wet before it is dumped onto a debris chute?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.13 Odorous materials immediately covered and promptly removed from site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.14 Are there enclosures around the main dust-generating activities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

SkyCity Golf Course  
Environmental Team (ET) for Construction Period  
SITE INSPECTION/AUDIT CHECKLIST

	N/A or not observed	Yes	No	Photo/Remarks
2.15 Is open burning prohibited?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
2.16 Are completed earthworks sealed and hydroseeded and planted as soon as practicable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.17 Are vehicles and equipment switched off while not in use?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
2.18 Do vehicles and equipment maintained that no excessive smoke or visible vapour emitted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Observable dust sources	<input checked="" type="checkbox"/> Wind erosion	<input checked="" type="checkbox"/> Vehicle/equipment movements		
	<input type="checkbox"/> Loading/unloading of materials	<input type="checkbox"/> Others _____		

**3 Noise**

3.1 Are the construction works scheduled to minimise noise nuisance?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
3.2 Are the works or equipment sited to minimize noise nuisance? Mobile plant sited away from NSRs? Noisy plant oriented away from NSRs?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
3.3 Are all plant and equipment well maintained and in good operating condition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
3.4 Is idle equipment turned off or throttled down?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
3.5 Are powered mechanical equipment covered or shielded by appropriate acoustic materials?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.6 Are quiet plant used as required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.7 Are silencers/mufflers fitted and maintained?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.8 Are mobile/temporary noise barriers used where specified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.9 Do air compressors ( $\geq 500\text{kPa}$ of supplying compressed air) and hand held percussive breakers ( $> 10\text{kg}$ in weight) have valid noise labels?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
3.10 Do compressors and generators operate with doors closed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
3.11 Are Construction Noise Permits available for inspection?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Major noise source(s)	<input type="checkbox"/> Traffic	<input checked="" type="checkbox"/> Construction activities inside of site		
	<input checked="" type="checkbox"/> Construction activities outside of site	<input type="checkbox"/> Others _____		

**4 Waste/Chemical Management**

4.1 General refuse				
4.1.1 Accumulation on-site avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
4.1.2 Receptacles (e.g. rubbish bins) available?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
4.1.3 Disposed of regularly and properly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
4.1.4 Records of quantities generated/recycled/disposed maintained?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____

SkyCity Golf Course  
Environmental Team (ET) for Construction Period  
SITE INSPECTION/AUDIT CHECKLIST



	N/A or not observed	Yes	No	Photo/Remarks
4.2 Chemical waste				
4.2.1 Stored properly in designated area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
4.2.2 Storage in accordance with Code of Practice?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
4.2.3 Disposed of properly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
4.2.4 Trip tickets available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
4.3 Chemical/fuel storage				
4.3.1 Is storage area bunded?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
4.3.2 Adequate bund capacity? (>110% of the largest tank)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
4.3.3 Area storage area provided with locks and located on sealed areas?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
4.3.4 Are oil/fuel drums and plant/equipment provided with drip trays to prevent soil contamination?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	see note ③
4.4 C&D Material				
4.4.1 Reused/recycled where practicable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
4.4.2 Inert/non inert materials segregated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
4.4.3 Disposed of properly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
4.4.4 Records of quantities generated/recycled/disposed maintained?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
4.5 Excavated Material				
4.5.1 Reused where practicable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
4.5.2 Records of quantities generated/reused/disposed maintained?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
4.6 Are spent bentonite slurries or grouts collected, reconditioned and reused?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.7 Is foam, oil, grease, litter or other objectionable matters in water to nearby drain/sewer avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
<b>5 Landscape and Visual</b>				
5.1 Are retained trees protected by fencing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.2 Is the work site confined within site boundaries?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
5.3 Is damage to surrounding areas avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____

SkyCity Golf Course  
Environmental Team (ET) for Construction Period  
SITE INSPECTION/AUDIT CHECKLIST



Remarks


- ① As the ground profile of the golf course is almost completed, no stockpile of dusty materials was observed.
- ② Scattered rubbishes observed last audit were removed.
- ③ Some oil drums without drip tray standing on bare ground near the site office were observed. Drip trays should be provided.
- ④ The contractor was reminded to spray water on unpaved haul roads and areas frequently as it becomes dry.

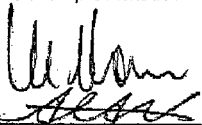
Signatures:


ET Inspector

AMS Site Representative

Contractor's Representative

  
 Name: Adi Lee  
 Date: 29 Sep 2006

  
 Name: Alan Sheng Kwan  
 Date: 29 Sep 2006

  
 Name: Alan Sheng Kwan  
 Date: 28 Sep 2006

## Appendix 2

---

# Marine Water Quality Monitoring Data

Date	Time	Station	Sample Depth (m)	Water Depth (m)	Sea Temp (°C)	Salinity (ppt)	DO Sat (%age)	DO Conc (mg/ℓ)	Turbidity (NTU)	SS (mg/ℓ)
01-Sep-06	(mid-ebb)	M1	3	6	29.8	12.5	84	6.0	3	3
01-Sep-06	(mid-ebb)	M2	3	6	29.8	12.3	83	6.0	3	4
01-Sep-06	(mid-ebb)	C1	2	3	29.9	12.1	83	6.1	4	4
01-Sep-06	(mid-ebb)	C2	3	6	29.8	12.4	82	6.0	2	3
01-Sep-06	(mid-flood)	M1	3	6	30.1	12.3	84	6.1	2	3
01-Sep-06	(mid-flood)	M2	3	6	30.2	12.3	86	6.2	3	3
01-Sep-06	(mid-flood)	C1	2	3	30.3	12.2	87	6.3	3	3
01-Sep-06	(mid-flood)	C2	3	6	30.2	12.4	85	6.2	3	2
05-Sep-06	(mid-ebb)	M1	3	6	29.6	15.9	94	6.9	4	3
05-Sep-06	(mid-ebb)	M2	3	6	29.7	16.0	95	7.0	4	4
05-Sep-06	(mid-ebb)	C1	2	3	29.8	15.8	96	7.0	4	3
05-Sep-06	(mid-ebb)	C2	3	6	29.8	16.1	95	6.9	3	4
05-Sep-06	(mid-flood)	M1	3	6	29.3	15.8	96	7.0	3	4
05-Sep-06	(mid-flood)	M2	3	6	29.7	15.8	95	7.0	4	3
05-Sep-06	(mid-flood)	C1	2	3	29.6	15.7	95	6.9	5	5
05-Sep-06	(mid-flood)	C2	3	7	29.6	16.1	96	7.0	3	4
09-Sep-06	(mid-ebb)	M1	3	6	26.7	23.8	73	5.2	4	5
09-Sep-06	(mid-ebb)	M2	3	6	26.8	23.9	74	5.2	4	7
09-Sep-06	(mid-ebb)	C1	2	3	26.8	23.8	76	5.3	4	4
09-Sep-06	(mid-ebb)	C2	3	7	26.6	23.9	73	5.2	3	6
09-Sep-06	(mid-flood)	M1	3	6	26.6	23.7	72	5.1	4	5

Date	Time	Station	Sample Depth (m)	Water Depth (m)	Sea Temp (°C)	Salinity (ppt)	DO Sat (%age)	DO Conc (mg/ℓ)	Turbidity (NTU)	SS (mg/ℓ)
09-Sep-06	(mid-flood)	M2	3	6	26.6	23.8	71	5.1	5	5
09-Sep-06	(mid-flood)	C1	2	3	26.7	23.7	73	5.2	4	3
09-Sep-06	(mid-flood)	C2	3	6	26.5	23.8	70	5.0	4	8
12-Sep-06	(mid-ebb)	M1	3	6	24.8	31.1	55	3.9	5	7
12-Sep-06	(mid-ebb)	M2	3	6	24.8	31.0	54	3.8	4	8
12-Sep-06	(mid-ebb)	C1	2	3	25.0	30.9	56	4.0	5	8
12-Sep-06	(mid-ebb)	C2	3	7	24.9	30.9	53	3.8	4	8
12-Sep-06	(mid-flood)	M1	3	6	24.8	30.9	53	3.8	5	8
12-Sep-06	(mid-flood)	M2	3	6	24.8	31.0	53	3.8	6	8
12-Sep-06	(mid-flood)	C1	2	3	24.9	30.8	53	3.7	6	9
12-Sep-06	(mid-flood)	C2	3	7	24.7	30.1	54	3.8	5	8
16-Sep-06	(mid-ebb)	M1	3	6	25.7	29.8	70	5.0	4	2
16-Sep-06	(mid-ebb)	M2	3	6	25.8	29.9	71	5.1	4	2
16-Sep-06	(mid-ebb)	C1	2	3	25.8	29.8	72	5.2	4	3
16-Sep-06	(mid-ebb)	C2	3	7	25.6	29.9	70	5.0	3	2
16-Sep-06	(mid-flood)	M1	3	6	25.6	29.7	69	4.9	4	3
16-Sep-06	(mid-flood)	M2	3	6	25.6	29.8	68	4.9	4	2
16-Sep-06	(mid-flood)	C1	2	3	25.7	29.7	70	5.0	4	2
16-Sep-06	(mid-flood)	C2	3	7	25.5	29.8	66	4.8	4	2
19-Sep-06	(mid-ebb)	M1	3	6	26.2	32.0	80	5.7	3	4
19-Sep-06	(mid-ebb)	M2	3	6	26.1	32.0	79	5.6	4	4



Date	Time	Station	Sample Depth (m)	Water Depth (m)	Sea Temp (°C)	Salinity (ppt)	DO Sat (%age)	DO Conc (mg/ℓ)	Turbidity (NTU)	SS (mg/ℓ)
19-Sep-06	(mid-ebb)	C1	1	3	26.3	31.9	78	5.6	5	4
19-Sep-06	(mid-ebb)	C2	3	6	26.2	32.0	79	5.7	3	5
19-Sep-06	(mid-flood)	M1	3	6	26.4	32.1	81	5.8	4	6
19-Sep-06	(mid-flood)	M2	3	6	26.4	32.1	81	5.8	4	5
19-Sep-06	(mid-flood)	C1	2	3	26.4	31.9	81	5.7	4	5
19-Sep-06	(mid-flood)	C2	3	6	26.3	32.0	82	5.8	4	5
23-Sep-06	(mid-ebb)	M1	3	6	27.1	31.0	89	6.3	4	6
23-Sep-06	(mid-ebb)	M2	3	6	27.0	31.0	89	6.3	3	7
23-Sep-06	(mid-ebb)	C1	2	3	27.1	31.0	91	6.4	5	7
23-Sep-06	(mid-ebb)	C2	3	6	27.0	31.1	89	6.4	4	7
23-Sep-06	(mid-flood)	M1	3	6	27.2	31.0	90	6.4	3	7
23-Sep-06	(mid-flood)	M2	3	6	27.2	30.9	91	6.4	3	6
23-Sep-06	(mid-flood)	C1	2	3	27.3	30.8	91	6.5	4	7
23-Sep-06	(mid-flood)	C2	3	6	27.2	31.0	90	6.4	3	7
26-Sep-06	(mid-ebb)	M1	3	6	26.7	31.9	85	5.7	6	8
26-Sep-06	(mid-ebb)	M2	3	6	26.6	32.0	86	5.7	6	8
26-Sep-06	(mid-ebb)	C1	2	3	26.7	31.9	86	5.8	7	9
26-Sep-06	(mid-ebb)	C2	3	6	26.6	32.0	85	5.7	5	7
26-Sep-06	(mid-flood)	M1	3	6	26.5	32.0	88	5.9	5	9
26-Sep-06	(mid-flood)	M2	3	6	26.6	32.1	91	5.8	6	8
26-Sep-06	(mid-flood)	C1	2	3	26.6	32.0	89	5.9	7	6

Date	Time	Station	Sample Depth (m)	Water Depth (m)	Sea Temp (°C)	Salinity (ppt)	DO Sat (%age)	DO Conc (mg/ℓ)	Turbidity (NTU)	SS (mg/ℓ)
26-Sep-06	(mid-flood)	C2	3	7	26.6	32.0	87	5.8	4	6
30-Sep-06	(mid-ebb)	M1	3	6	26.8	31.2	89	6.2	3	4
30-Sep-06	(mid-ebb)	M2	3	6	26.9	31.1	90	6.3	3	4
30-Sep-06	(mid-ebb)	C1	1	3	26.9	31.1	89	6.2	4	3
30-Sep-06	(mid-ebb)	C2	3	6	26.8	31.2	88	6.2	3	4
30-Sep-06	(mid-flood)	M1	3	6	26.8	31.2	89	6.2	4	4
30-Sep-06	(mid-flood)	M2	3	6	26.8	31.1	88	6.2	3	3
30-Sep-06	(mid-flood)	C1	2	3	26.9	31.1	88	6.2	4	4
30-Sep-06	(mid-flood)	C2	3	6	26.8	31.2	88	6.2	3	4

**Notes** : “-“ indicates no data is available

**Bold** indicates Action Level exceedance

**Bold** indicates Limit Level exceedance

<b>Mean</b>	27.1	26.5	80.1	5.7	3.9	5.0
<b>Maximum</b>	30.3	32.1	96.4	7.0	7.2	9.0
<b>Minimum</b>	24.7	12.1	52.7	3.7	2.0	2.0

## Appendix 3

---

# Equipment Calibration Details



# ALS Environmental

## SUB-CONTRACT LABORATORY RESULTS COVERSHEET for ALS WORKORDER HK0602101

### Client Details

Client : MAUNSELL ENVIRONMENTAL  
MANAGEMENT CONSULTANTS LTD

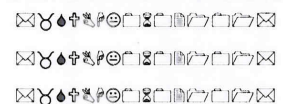
Project : - Not provided -  
Order number : - Not provided -  
C-O-C Number : - Not provided -  
Site : - Not provided -  
Sampler : - Not provided -

### Comments

- The attached report contains sub-contracted components of ALS Environmental work order HK0602101. This report has been electronically stored for ALS record purposes and has not been altered in any way.

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FOR LABORATORY USE ONLY





### CERTIFICATE OF ANALYSIS

<b>CONTACT:</b>	MR EDDIE YANG	<b>Batch:</b>	HK0602101
<b>CLIENT:</b>	MAUNSELL ENV MGT CNLT LTD	<b>Sub Batch:</b>	0
<b>ADDRESS:</b>	11TH FLOOR TOWER II GRAND CENTRAL PLAZA 138 SHATIN RURAL COMMITTEE RD NT	<b>LABORATORY:</b>	HONG KONG
<b>ORDER No.:</b>		<b>DATE RECEIVED:</b>	10/08/2006
<b>PROJECT:</b>		<b>DATE OF ISSUE:</b>	21/08/2006
		<b>SAMPLE TYPE:</b>	EQUIPMENT
		<b>No. of SAMPLES:</b>	1

### COMMENTS

The calibration procedure used for the analysis has been applied for the calibration of the above instrument.

### NOTES

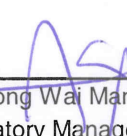
This is the Final Report and supersedes any preliminary report with this batch number.  
Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

### ISSUING LABORATORY: HONG KONG

#### Address

ALS Technichem (HK) Pty Ltd  
11/F  
Chung Shun Knitting Centre  
1-3 Wing Yip Street  
Kwai Chung  
HONG KONG

**Phone:** 852-2610 1044  
**Fax:** 852-2610 2021  
**Email:** hongkong@alsenviro.com

  
Ms Wong Wai Man, Alice  
Laboratory Manager - Hong Kong

#### Other ALS Environmental Laboratories

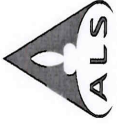
AUSTRALIA		AMERICAS
Brisbane	Hong Kong	Vancouver
Melbourne	Singapore	Santiago
Sydney	Kuala Lumpur	Amtofagasta
Newcastle	Bogor	Lima

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Abbreviations: % SPK REC denotes percentage spike recovery  
CHK denotes duplicate check sample  
LOR denotes limit of reporting

ALS Technichem (HK) Pty Ltd  
Part of the ALS Laboratory Group  
11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., H.K.

Phone: 852-2610 1044 Fax: 852-2610 2021 www.alsenviro.com  
A Campbell Brothers Limited Company



# CERTIFICATE OF ANALYSIS

Batch: HK0602101  
 Sub Batch : 0  
 Date of Issue: 21/08/2006  
 Client: MAUNSELL ENV MGT CNLT LTD  
 Client Reference:

## Calibration of Turbiditymeter

Item : YSI SONDE Environmental Monitoring System  
 Model No. : 6820-C-M  
 Serial No. : 00013244  
 Equipment No. : W-026-29  
 Calibration Method : This meter was calibrated in accordance with standard method APHA (19th Ed.) 2130B  
 Date of Calibration : 10 August, 2006

### Testing Results :

Expected Reading	Recording Reading
0.00 NTU	0.30 NTU
4.00 NTU	4.40 NTU
16.0 NTU	17.3 NTU
80.0 NTU	72.2 NTU
160 NTU	157 NTU
Allowing Deviation	±10%

Ms Wong Wai Man, Alice  
 Laboratory Manager - Hong Kong



# CERTIFICATE OF ANALYSIS

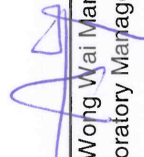
Batch: HK0602101  
 Sub Batch : 0  
 Date of Issue: 21/08/2006  
 Client: MAUNSELL ENV MGT CNLT LTD  
 Client Reference:

## Calibration of Conductivity System

Item : YSI SONDE Environmental Monitoring System  
 Model No. : 6820-C-M  
 Serial No. : 00013244  
 Equipment No. : W-026-29  
 Calibration Method : This meter was calibrated in accordance with standard method APHA (19th Ed.) 2510B  
 Date of Calibration : 10 August, 2006

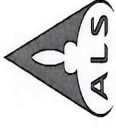
### Testing Results :

Expected Reading	Recording Reading
1412 uS/cm 6667 uS/cm 58670 uS/cm	1482 uS/cm 6874 uS/cm 59900 uS/cm
Allowing Deviation	±10%

  
 Ms Wong Wai Man, Alice  
 Laboratory Manager - Hong Kong



# CERTIFICATE OF ANALYSIS



Batch: HK0602101  
Sub Batch : 0  
Date of Issue: 21/08/2006  
Client: MAUNSELL ENV MGT CNLT LTD  
Client Reference:

## Calibration of Salinity System

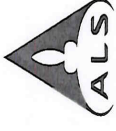
Item : YSI SONDE Environmental Monitoring System  
Model No. : 6820-C-M  
Serial No. : 00013244  
Equipment No. : W-026-29  
Calibration Method : This meter was calibrated in accordance with standard method APHA (19th Ed.) 2520 A and B  
Date of Calibration : 10 August, 2006

### Testing Results :

Expected Reading	Recording Reading
10.0 g/L	9.98 g/L
20.0 g/L	20.0 g/L
30.0 g/L	29.6 g/L
Allowing Deviation	±10%

Ms Wong Wai Man, Alice  
Laboratory Manager - Hong Kong





# CERTIFICATE OF ANALYSIS


Batch: HK0602101  
 Sub Batch : 0  
 Date of Issue: 21/08/2006  
 Client: MAUNSELL ENV MGT CNLT LTD  
 Client Reference:

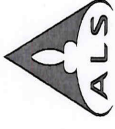
## Calibration of Thermometer

Item : YSI SONDE Environmental Monitoring System  
 Model No. : 6820-C-M  
 Serial No. : 00013244  
 Equipment No. : W-026-29  
 Calibration Method : In-house Method  
 Date of Calibration : 10 August, 2006

### Testing Results :

Reference Temperature (°C)	Recorded Temperature (°C)
21.4 °C	23.1 °C
35.1 °C	36.1 °C
Allowing Deviation	±2.0°C

  
 Ms Wong Wa Man, Alice  
 Laboratory Manager - Hong Kong



# CERTIFICATE OF ANALYSIS

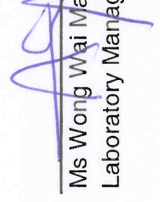
Batch: HK0602101  
 Sub Batch : 0  
 Date of Issue: 21/08/2006  
 Client: MAUNSELL ENV MGT CNLT LTD  
 Client Reference:

## Calibration of DO System

Item : YSI SONDE Environmental Monitoring System  
 Model No. : 6820-C-M  
 Serial No. : 00013244  
 Equipment No. : W-026-29  
 Calibration Method : This meter was calibrated in accordance with standard method APHA (18th Ed.) 4500-OC & G  
 Date of Calibration : 10 August, 2006

### Testing Results :

Expected Reading	Recording Reading
0.00 mg/L	0.08 mg/L
1.84 mg/L	2.01 mg/L
5.20 mg/L	5.00 mg/L
7.81 mg/L	7.61 mg/L
Allowing Deviation	±0.2 mg/L

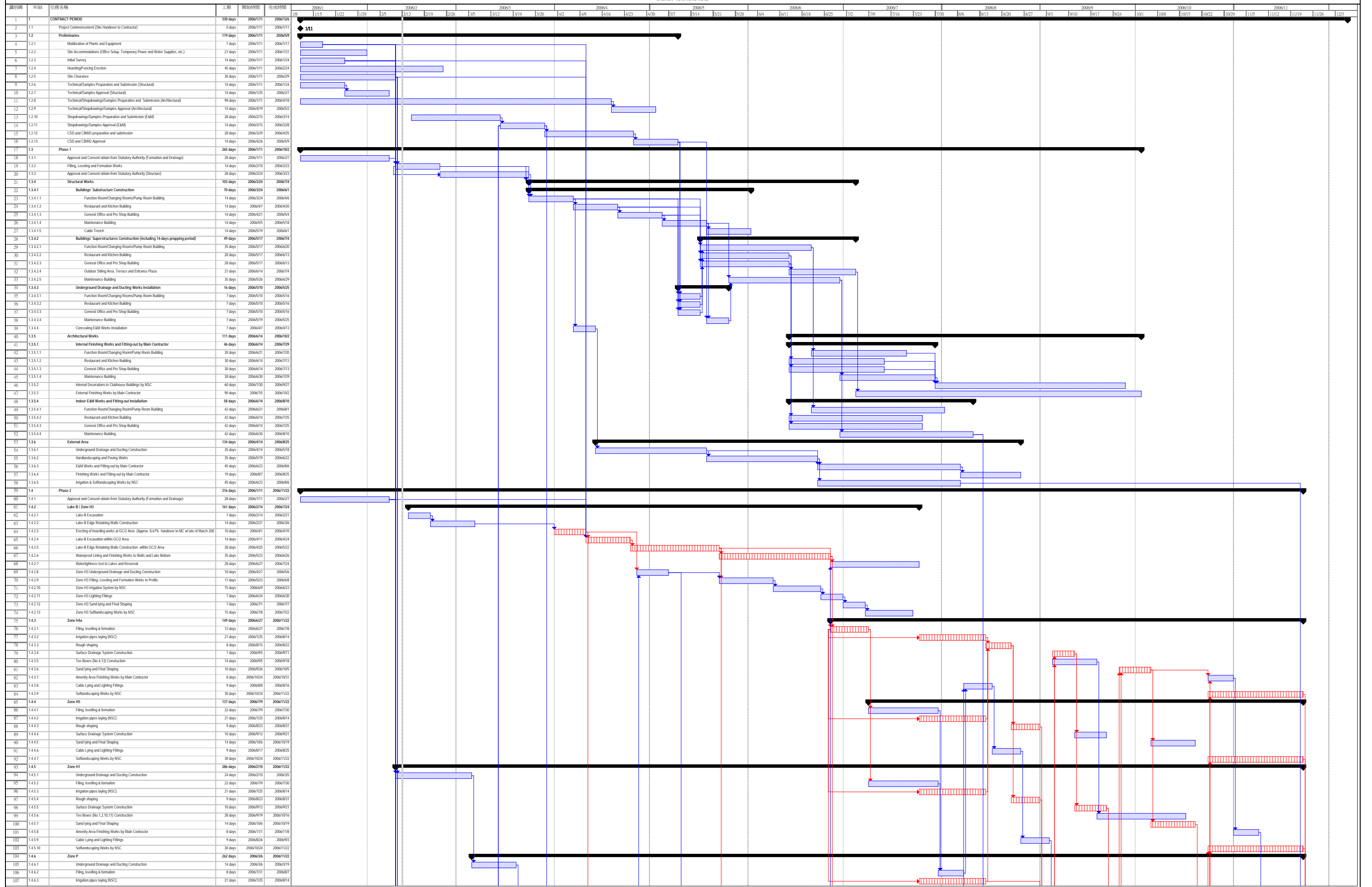
  
 Ms Wong Wai Man, Alice  
 Laboratory Manager - Hong Kong

## Appendix 4

---

# Works Programme

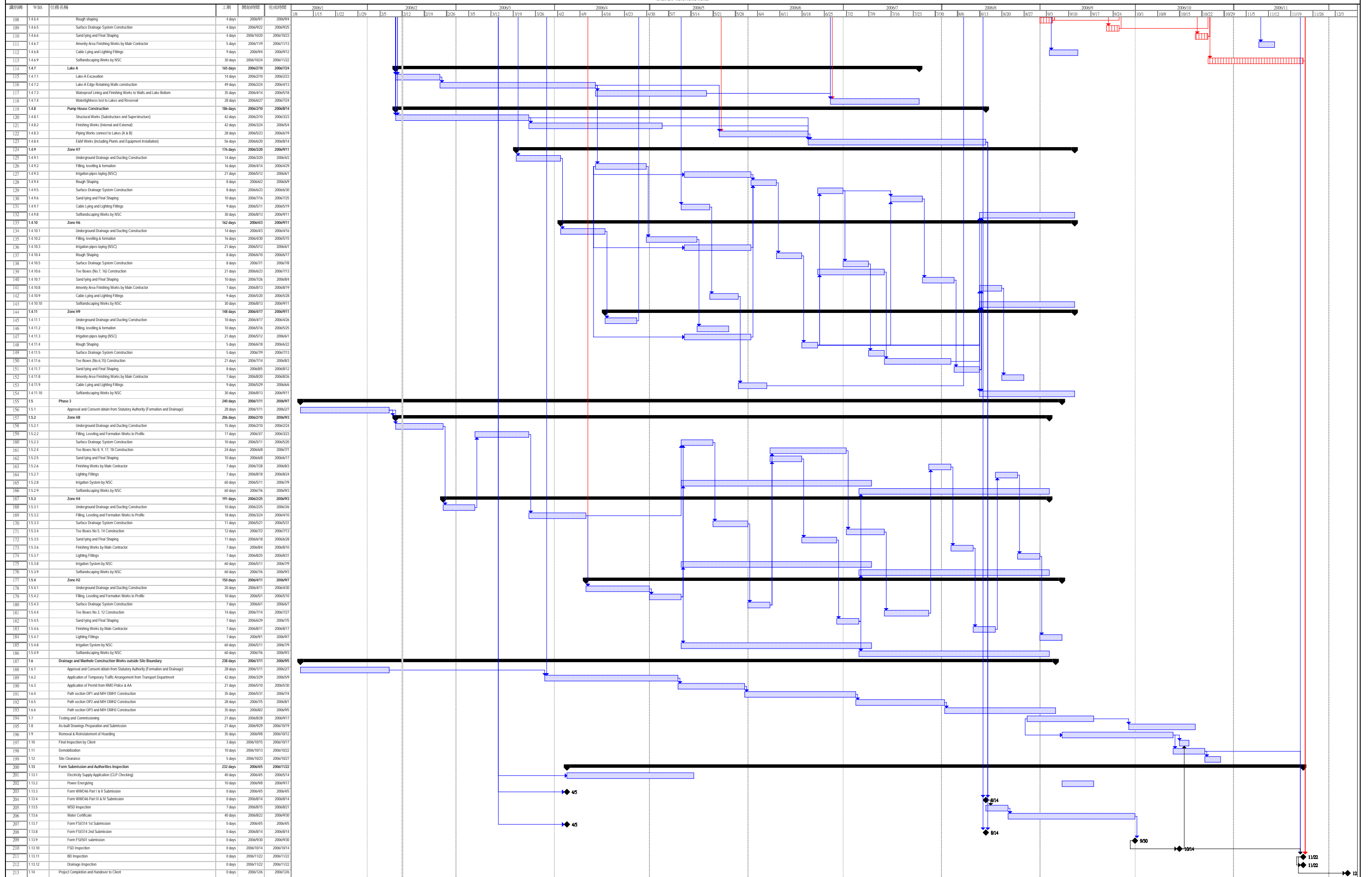
PROJECT: SKYCIITY GOLF COURSE  
LOT NO.825, REP. OF CHEK LAP KOK LOT NO. 1 AND THE EXTENSION THERETO,  
CHEK LAP KOK, HONG KONG



Title: Master Programme Revision 1  
Revision Date: 10 Feb 2006

■ 任務 ■ 變型任務 ■ 進度  里程碑 ◆ 摘要 ▶ 上層型任務 ▶ 上層型變型任務 ▶ 上層型里程碑 ◇ 上層型進度  分割 ⋯ 外部任務  專家摘要 ▶ 摘要詳組

PROJECT: SKY CITY GOLF COURSE  
 LOT NO.825, REP. OF CHEK LAP KOK LOT NO. 1 AND THE EXTENSION THERETO,  
 CHEK LAP KOK, HONG KONG



## Appendix 5

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# Marine Water Monitoring Schedule for Next Month

**Sky City Golf Course EM&A  
Tentative Water Quality Monitoring Schedule for October 2006 (Rev.1)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01-Oct	02-Oct	03-Oct	04-Oct	05-Oct	06-Oct	07-Oct
		Mid-Ebb 09:33 <i>05:25 13:41</i> Mid-Flood 17:20 <i>13:41 20:59</i>			Mid-Ebb 12:10 <i>08:50 15:30</i> Mid-Flood 18:36 <i>15:30 21:43</i>	
08-Oct	09-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct
		Mid-Flood 09:21 <i>06:09 12:33</i> Mid-Ebb 14:55 <i>12:33 17:18</i>				Mid-Ebb 06:02 <i>01:28 10:36</i> Mid-Flood 18:40 <i>10:36 02:44</i>
15-Oct	16-Oct	17-Oct	18-Oct	19-Oct	20-Oct	21-Oct
		Mid-Ebb 09:57 <i>06:16 13:38</i> Mid-Flood 17:14 <i>13:38 20:50</i>				Mid-Ebb 12:31 <i>09:37 15:26</i> Mid-Flood 18:26 <i>15:26 21:26</i>
22-Oct	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct
		Mid-Flood 08:25 <i>05:12 11:38</i> Mid-Ebb 14:02 <i>11:38 16:27</i>				Mid-Ebb 04:13 <i>23:58 08:28</i> Mid-Flood 16:34 <i>08:28 00:41</i>
29-Oct	30-Oct	31-Oct	01-Nov	02-Nov	03-Nov	04-Nov
		Mid-Ebb 07:37 <i>03:19 11:55</i> Mid-Flood 15:54 <i>11:55 19:54</i>				Mid-Ebb 11:40 <i>08:44 14:37</i> Mid-Flood 17:44 <i>14:37 20:52</i>