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TEST REPORT

CONCENTRIC CONSTRUCTION LIMITED

**OPERATION OF PUBLIC FILL
RECEPTION FACILITIES AT
TSEUNG KWAN O AREA 137,
QUARRY BAY AND MUI WO
(CONTRACT NO.: CV/2005/12)**

TSEUNG KWAN O AREA 137

**MONTHLY EM&A REPORT
(AUGUST 2006)**

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Report No.: ENA60627

**BMT Asia Pacific Limited**

13 September 2006
Our Ref: 8116/3038

By Hand

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For the attention of Mr. Stephen Choi

Dear Sir

Contract No. CV/2005/12
Fill Bank at Tseung Kwan O Area 137
Monthly EM&A Report

Following review of the Monthly EM&A Report No. 8 for the reporting period August 2006, the IEC has verified the information presented.

Should you have any queries regarding the above, please do not hesitate to contact the undersigned.

Yours sincerely
BMT Asia Pacific Limited

Ben Ridley
IEC

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EXECUTIVE SUMMARY

This is the eighth monthly Environmental Monitoring and Audit (EM&A) report prepared by ETS-Testconsult Ltd (ET) for the "Contract No. CV/2005/12 Operation of Public Fill Reception Facilities at Tseung Kwan O Area 137, Quarry Bay and Mui Wo" (The Project).

This report documented the findings of EM&A Works conducted during the operation phase of Fill Bank at Tseung Kwan O Area 137 in August 2006.

Construction Progress

As informed by the Contractor, the construction activities in this reporting month were as below:

- *Manage the incoming public fill dump trucks arriving through land access;*
- *Transport temporary stockpiled public fill from the Barge Handling Area (BHA) to Stockpile Areas or the Sorting Facility for Penny's Bay Reclamation Stage 2 (PBR2);*
- *Transport stockpile public fill from Stockpile Areas to the Sorting Facility for Penny's Bay Reclamation Stage 2 (PBR2);*
- *Direct some incoming public fill dump trucks to the Sorting Facility for Penny's Bay Reclamation Stage 2 (PBR2) for unloading;*
- *Routine site cleaning and maintenance of internal haul roads and access roads;*
- *Routine implementation of environmental mitigation measures such as dust suppression by water spraying, cleaning of nearby public roads by using road sweeper and collection of floating debris inside a berthing basin within the site boundary;*
- *Drainage improvement works within the Fill Bank of Tseung Kwan O Area 137;*
- *Landscaping works along the haul road towards the Construction Wastes Sorting Facility (CWSF);*
- *Construction of some sections of concrete pavement for access roads within the Fill Bank; and*
- *Construction of a pair of temporary working platforms along the haul road towards the CWSF for the future used by public dump truck drivers.*

Environmental Monitoring Progress

The summary of the monitoring activities in this monitoring month is listed below:

- *Noise Monitoring (Day-time): 1 Occasion at 1 designated location*
- *24-hour TSP Monitoring: 5 Occasions at 2 designated locations*
- *1-hour TSP Monitoring: 15 Occasions at 2 designated locations*
- *Marine Water Quality Monitoring: 13 Occasions at 2 designated locations*
- *Weekly-site inspection: 5 Occasions*

Noise Monitoring

No exceedances of Action and Limit levels for noise monitoring were recorded in the reporting month.

Air Monitoring

No exceedances of Action and Limit levels were recorded for 24-hr and 1-hr TSP monitoring in the reporting month.

Marine Water Quality Monitoring

Marine water quality monitoring on 02 August 2006 (mid-ebb) was cancelled due to bad weather (Typhoon Signal No.3).

According to the summary of marine water monitoring results, no exceedance of Action and Limit Level was recorded in this reporting month.

Site Inspection

Environmental site inspections conducted in this reporting month are presented as follows:

<u>Concerned Parties</u>	<u>Dates of Audit / Inspection</u>
ET Weekly site inspection	04, 10, 16, 22, 28
IEC site inspection	25

In general, performance on environmental mitigation measures implemented was found to be satisfactory in this reporting month. The major findings observed during site inspections are presented in the Section 7.0.



Landscape and Visual

The germination rate on the panel at Portion A, B, G, H and I was satisfactory in this reporting month. The Contractor should properly maintain the hydroseeded panels.

Environmental Complaints, Notification of summons and successful prosecutions

No complaints, notification of summons and prosecutions with respect to environmental issues were received in this monitoring month.

Permits and Licenses

An Amended Environmental Permit (No.: EP-134/2002/F) (the EP) was granted to the Project by EPD on 26 January 2006. Effluent discharge licence (Ref. No.: TE/D1152/839/1) for the site toilet and shower room issued on 06 June 2003 obtained from the previous contract continued to be valid in this Project. Chemical Waste Producer Licence (WPN No.: 5213-839-P2800-23) was also valid from 04 August 2005.

Future Key Issues

Based on the site inspections and forecast of engineering works in the coming month, key issues to be considered are as follows:

- *Noise and air quality impact due to construction works;*
- *Maintain wheel washing facilities properly;*
- *Maintain all drainage and desilting facilities properly;*
- *Use and maintain silt curtain properly;*
- *Clean up the fill material on concrete pavement along the BHA frequently;*
- *Watering, hydroseeding or covering all opening slopes and stockpiles with tarpaulin to avoid wind and water erosion;*
- *Sufficient drip trays for all oil drums / chemical containers;*
- *Implement all necessary preventive measures to avoid oil leakage. In the event an oil leakage happens, the Contractor should properly remove the leaked oil and handle the contaminated soil and all materials using for this cleaning works as chemical waste;*
- *Maintain good site practice and waste management to minimize environmental impacts at the site; and*
- *Follow-up improvements on waste management issues.*



1.0 INTRODUCTION

Concentric Construction Ltd (CCL) appointed Environmental Team (ET) of ETS-Testconsult Limited (ETL) to undertake the Environmental Monitoring and Audit (EM&A) for the "Operation of Public Fill Reception Facilities at Tseung Kwan O Area 137, Quarry Bay and Mui Wo" (Contract No.: CV/2005/12) (The Project).

In accordance with the Amended Environmental Permit (No.: EP-134/2002/F) (the EP), an EM&A programme should be implemented in accordance with the procedures and requirements in the EM&A Manual of the approved EIA report (Registration No. AEIAR-060/2002). The EM&A programme for this study as stated in Section 2.3.1 of the EM&A Manual covers the following environmental aspects during the establishment, operation and removal phases of the Fill Bank at Tseung Kwan O Area 137:

- Fugitive Dust;
- Noise generation from onsite activities;
- Water Quality; and
- Landscape and Visual.

The EM&A programme requires environmental monitoring for air quality, noise and water quality and environmental site inspections for air quality, noise, water quality, landscape and visual, and waste management. The EM&A requirements for each parameter described in the following sections include:

- All monitoring parameters;
- Monitoring schedules for the reporting month and forthcoming months;
- Action and Limit levels for all environmental parameters;
- Event/Action Plans;
- Environmental mitigation measures, as recommended in the Project EIA study final report; and
- Environmental requirements in contract documents.

Baseline monitoring was completed in August and September 2002 by Materialab. Action and Limit Levels were established for air and water quality parameters based on the baseline monitoring results.

This report documented the findings of EM&A Works conducted during the operation phase of Fill Bank at Tseung Kwan O Area 137 in August 2006.



2.0 PROJECT INFORMATION

2.1 Scope of the Project

The scale and scope of the Project as stated in the EP include:

- Site clearance;
- Construction of a temporary storm water system;
- Stockpiling of 6 million m³ of public fill;
- Setting up two barging points: one at the Tseung Kwan O Basin (TKO Basin) and one at the Construction and Demolition Material Sorting Facility (C&DMSF) for transporting the stockpiled public fill by barges;
- Setting up a temporary barging point at the existing Explosive Off-loading Barging Point located in the south-eastern part of Area 137 for the period of May 2004 to December 2004 for transporting the stockpiled public fill by barge;
- Construction and operation of a Construction and Demolition Material Sorting Facility (C&DMSF);
- Setting up a Construction and Demolition Material Crushing Facility at the TKO Basin; and
- Remove the temporary fill bank.

2.2 Site Description

Tseung Kwan O Area 137 is located at the southern end of Wan Po Road. In the vicinity of the site are other industrial uses such as SENT landfill, TKO Industrial Estate, etc. Both Island Resort and Fullview Garden are also situated at more than 1.8km from the site. Other existing ASRs and NSRs, including resident developments and schools, are located at a further distance away from TKO Area 137.

2.3 Construction Programme

Details of construction programme are shown in Appendix G.

2.4 Project Organization and Management Structure

The organization chart and lines of communication with respect to the on-site environmental management and monitoring program are shown in Appendix A.

2.5 Contact Details of Key Personnel

The key personnel contact names and telephone numbers are shown in Table 2.1.

Table 2.1 Contact Details of Key Personnel

Organization	Name of Key Staff	Project Role	Tel. No.	Fax No.
CEDD	Mr. H C TANG	Engineer	2762 5602	2714 0113
IEC (BMT)	Mr Ben Ridley	IEC	2815 2221	2815 3377
Contractor (CCL)	Mr. C P Lam	Project Manager	2398 8001 9212 9417	2398 8301
ET (ETL)	Mr C. L. Lau	ET Leader	2946 7791	2695 3944



3.0 CONSTRUCTION PROGRESS IN THIS REPORTING MONTH

As informed by the Contractor, the activities in the reporting month include:

- *Manage the incoming public fill dump trucks arriving through land access;*
- *Transport temporary stockpiled public fill from the Barge Handling Area (BHA) to Stockpile Areas or the Sorting Facility for Penny's Bay Reclamation Stage 2 (PBR2);*
- *Transport stockpile public fill from Stockpile Areas to the Sorting Facility for Penny's Bay Reclamation Stage 2 (PBR2);*
- *Direct some incoming public fill dump trucks to the Sorting Facility for Penny's Bay Reclamation Stage 2 (PBR2) for unloading;*
- *Routine site cleaning and maintenance of internal haul roads and access roads;*
- *Routine implementation of environmental mitigation measures such as dust suppression by water spraying, cleaning of nearby public roads by using road sweeper and collection of floating debris inside a berthing basin within the site boundary;*
- *Drainage improvement works within the Fill Bank;*
- *Landscaping works along the haul road towards the Construction Wastes Sorting Facility (CWSF);*
- *Construction of some sections of concrete pavements for access roads within the Fill Bank;*
and
- *Construction of a pair of temporary working platforms along the haul road towards the CWSF for the future use by public dump truck drivers.*



4.0 AIR QUALITY MONITORING

4.1 Monitoring Requirement

TSP levels were monitored in the reporting month in accordance with the EM&A Manual. Table 4.5 shows the Action and Limit Levels for the environmental monitoring works.

4.2 Monitoring Equipment

Both 1-hour and 24-hour TSP air quality monitoring was performed using a GMWS2310 High Volume Air Sampler (HVS) located at each of the designated monitoring station. Table 4.1 summarizes the equipment used in the air quality monitoring programme. A copy of the calibration certificates for the HVS and portable dust meter are attached in Appendix B1.

Table 4.1 Air Quality Monitoring Equipment

<i>Equipment</i>	<i>Model and Make</i>
<i>HVS</i>	<i>Greasby GMWS2310</i>
<i>Calibrator</i>	<i>Tisch TE-5025A</i>
<i>Wind Data Logger</i>	<i>Davis Weather Monitor II</i>

4.3 Monitoring Parameters, Frequency and Duration

Table 4.2 summarizes the monitoring parameters, monitoring duration and frequencies of air quality monitoring.

Table 4.2 Monitoring parameters, duration, frequency of air quality monitoring

<i>Parameter</i>	<i>Duration</i>	<i>Frequency</i>
<i>24-hr TSP</i>	<i>24 hr</i>	<i>Once every six days</i>
<i>1-hr TSP</i>	<i>1 hr</i>	<i>Three times per day every six days</i>

4.4 Monitoring Locations and Schedule

Table 4.3 tabulates the air quality monitoring locations of this project.

Table 4.3 Air quality monitoring locations

<i>Monitoring station</i>	<i>Location</i>
<i>AA1</i>	<i>Outside CEDD Site Office</i>
<i>AA2</i>	<i>Site Egress</i>

During the reporting month, 1-hr and 24-hr TSP monitoring were carried out as the schedule. The details for 24-hr and 1-hr TSP monitoring carried out in this reporting month are summarized in table 4.4.



Table 4.4 Monitoring Schedule for the air quality monitoring stations

Air quality monitoring stations	Location	Monitoring Period											
		24-hr TSP				1-hr TSP							
		Start		Finish		Date	Start	Finish					
		Date	Time	Date	Time								
AA1	Outside CEDD Site Office						04/08/06	08:30	09:30				
												11:00	12:00
												13:00	14:00
							10/08/06					08:30	09:30
												11:00	12:00
												13:00	14:00
							16/08/06					08:30	09:30
												11:00	12:00
												13:00	14:00
							22/08/06					08:30	09:30
												11:00	12:00
												14:00	15:00
							28/08/06					08:30	09:30
												11:00	12:00
												13:00	14:00
AA2	Site Egress						04/08/06	08:30	09:30				
												11:00	12:00
												13:00	14:00
							10/08/06					08:30	09:30
												11:00	12:00
												13:00	14:00
							16/08/06					08:30	09:30
												11:00	12:00
												13:00	14:00
							22/08/06					08:30	09:30
												11:00	12:00
												14:00	15:00
							28/08/06					08:30	09:30
												11:00	12:00
												13:00	14:00
AA1	Outside CEDD Site Office	04/08/06	14:15	05/08/06	14:16								
		10/08/06	14:15	11/08/06	14:16								
		16/08/06	14:15	17/08/06	14:15								
		22/08/06	15:30	23/08/06	15:46								
		28/08/06	15:30	29/08/06	16:02								
AA2	Site Egress	04/08/06	14:15	05/08/06	14:15								
		10/08/06	14:15	11/08/06	14:15								
		16/08/06	14:15	17/08/06	14:16								
		22/08/06	15:30	23/08/06	15:57								
		28/08/06	15:30	29/08/06	15:32								

4.5 Monitoring Methodology

Both 1-hr and 24-hr air quality monitoring (High Volume Sampler)

Instrumentation

High volume sampler, as HVS, (Greasby GMWS2310) complete with appropriate sampling inlets were employed for both 1-hour and 24-hour TSP monitoring. The sampler is composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complies with that required by USEPA standard Title 40, Code of Federation Regulations Chapter 1 (Part 50).

Installation

The installation of HVS refers to the requirement stated in EM&A Manual.



Operation/Analytical Procedures

Operating/analytical procedures for the operation of HVS are as below:

Prior to the commencement of the dust sampling, the flow rate of the high volume sampler was properly set (between 0.6m³/min and 1.7m³/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.

- For TSP sampling, fiberglass filters (GA-55) were used.
- The power supply was checked to ensure the sampler worked properly.
- On sampling, the sampler was operated 5 minutes to establish thermal equilibrium before placing any filter media at designated air monitoring station.
- The filter holding frame was then removed by loosening the four nuts and carefully a weighted and conditioned filter was centered with the stamped number upwards, on a supporting screen.
- The filter was aligned on the screen so that the gasket formed an air-tight seal on the outer edges of the filter. Then the filter holder frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
- The programmable timer will be set for a sampling period of 24 hours. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number.).
- After sampling, the filter was transferred from the filter holder of the HVS to a sealed plastic bag and sent to the laboratory for weighting. The elapsed time was also recoded.
- Before weighting, all filters were equilibrated in a desiccator for 24 hour with the temperature of 25°C ± 3°C and the relative humidity (RH) <50% ±5%.
- All measurement procedures in Section 2.3 of the EM&A Manual were followed during the reporting month.

Maintenance & Calibration

- The HVS and their accessories should be maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.
- HVS should be calibrated at bi-monthly intervals.

Wind Data Monitoring

Measuring Procedure

Upon installation of the wind data logger on site, temperature, wind speed and direction was automatically stored in the logger. Regular downloading of the information was carried out weekly.

Maintenance

Cleaning was provided for all the rotational parts of the wind data logger regularly. Replacement of battery was carried out weekly. The wind data logger was checked once per week and no calibration was required for the equipment as instructed by the manufacturer.

4.6 Action and Limit Levels

Table 4.5 shows the Action and Limit levels for 24-hr TSP and 1-hr TSP monitoring.

Table 4.5 Action and Limit Levels for 24-hr TSP and 1-hr TSP

Monitoring Location	24-hr TSP (µg/m ³)		1-hr TSP (µg/m ³)	
	Action Level *	Limit Level *	Action Level *	Limit Level *
AA1	210	260	376	500
AA2	210	260	376	500

* Traceable to Method Statement (Environmental Monitoring and Audit Manual) of Contract No.CV/2002/08, Rev. 2

4.7 Event-Action Plans

Please refer to Appendix F for details.

4.8 Results and Observation

4.8.1 1-hour and 24-hour TSP Monitoring results

All monitoring data of both 1-hour and 24-hour TSP monitoring is provided in Appendix B2. Graphical presentation of 1-hour and 24-hour TSP monitoring results for the reporting month is shown in Appendix B3. Wind data, including wind speed and wind direction, are annexed in Appendix E. Table 4.6 summarizes 1-hr TSP and 24-hr TSP monitoring results.

Table 4.6 Summary of 1-hr TSP and 24-hr TSP Monitoring Results

Air quality monitoring Stations	Location	Monitoring Period						
		24-hr TSP			1-hr TSP			
		Date	Result ($\mu\text{g}/\text{m}^3$)	Exceedance #	Date	Start Time	Result ($\mu\text{g}/\text{m}^3$)	Exceedance #
AA1	Outside CEDD Site Office	04/08/06	140	X	04/08/06	08:30	225	X
						11:00	309	
						13:00	291	
		10/08/06	105	X	10/08/06	08:30	149	X
						11:00	253	
						13:00	186	
		16/08/06	143	X	16/08/06	08:30	215	X
						11:00	286	
						13:00	259	
		22/08/06	157	X	22/08/06	08:30	186	X
						11:00	273	
						14:00	294	
		28/08/06	174	X	28/08/06	08:30	242	X
						11:00	312	
						13:00	275	
A2	Site Egress	04/08/06	129	X	04/08/06	08:30	242	X
						11:00	313	
						13:00	288	
		10/08/06	111	X	10/08/06	08:30	187	X
						11:00	263	
						13:00	220	
		16/08/06	159	X	16/08/06	08:30	213	X
						11:00	302	
						13:00	275	
		22/08/06	166	X	22/08/06	08:30	246	X
						11:00	320	
						14:00	287	
		28/08/06	190	X	28/08/06	08:30	230	X
						11:00	335	
						13:00	306	

Remark (*): L=Limit Level exceedance, A=Action Level exceedance and X= not an exceedance

No exceedances of Action and Limit Level of both 1-hour and 24-hour TSP monitoring results were recorded during the reporting month.

4.8.2 Observation

Generally, the Contractor implemented sufficient dust mitigation measures, including operation of the mist spraying systems at the CEDD Combined Reception Office and the site egress area, wheel washing facilities, road dampening by water bowsers and automatic water sprinklers on the main haul roads. Furthermore, hydroseeded slopes on the stockpiling areas was maintained properly in order to prevent dust generation from wind erosion of the exposed surfaces. Besides the Fill Bank operation, other dust sources near TKO Area 137 also included the operation of the C&DMSF at the PBR2 Project site, the temporary C&DMSF at Portion K and dumping activities at the SENT Landfill.



5.0 Noise Monitoring

5.1 Monitoring Requirements

Noise monitoring was conducted at 1 monitoring station as specified in the approved EM&A Monitoring Proposal for good site practice. The equipment, parameter, frequency, duration, methodology, calibration details, results and observations of the noise monitoring for the reporting month are presented in this section.

5.2 Monitoring Equipment

An Integrating Sound Level Meter was used for noise monitoring. It was a Type 1 sound level meter capable of giving a continuous readout of the noise level reading including equivalent continuous sound pressure level (L_{eq}) and percentile sound pressure level (L_x). It complies with International Electro Technical Commission Publications 651:1979 (Type1) and 804:1985 (Type1), and speed in m/s was used to monitor the wind speed.

Table 5.1 summarizes noise monitoring equipment model being used. A copy of the calibration certificate for noise meter and calibrator are attached in Appendix C1.

Table 5.1 Noise Monitoring Equipment

Equipment	Model
Integrating Sound Level Meter	Rion NL-31 Sound Level Meter
Calibrator	Rion NC-73 Sound Level Calibrator
Portable Wind Speed Indicator	TSI Model 8340-M Air Velocity Meter

5.3 Monitoring Parameters, Duration and Frequency

Duration, frequencies and parameters of noise measurement are presented in Table 5.2.

Table 5.2 Duration, Frequencies and Parameters of Noise Monitoring

Time period	Duration/min	Parameters	Frequency
Day-time: 0700-1900 hrs on normal weekday	30	L_{eq} L_{10} L_{90}	Once per month

5.4 Monitoring Locations and Period

Noise monitoring was conducted at the noise monitoring location, N1 as shown in Figure 3.1 during the reporting month. Table 5.3 describes the location of the monitoring station.

Table 5.3 Noise Monitoring Locations

Monitoring station	Location	Type of Measurement
N1	Outside site Egress along Wan Po Road	Facade

The noise-monitoring period of monitoring station is summarized in Table 5.4.

Table 5.4 Monitoring Period for noise monitoring stations

Noise monitoring stations	Monitoring Period	
	Day-time	
N1	02/06/06	09:50

5.5 Monitoring Procedures and Calibration Details

Operation/Analysis Procedures

- The Sound Level Meter was set on a tripod at a height of 1.2m above the ground.
- For free field measurement, the meter was positioned away from any nearby reflective surfaces.
- The battery condition was checked to ensure the correct functioning of the meter.

- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - Frequency weighting: A
 - Time weighting : Fast
 - Time measurement : 5 mins
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94 dB at 1000HZ. If the difference in the calibration level before and after measurement was more than 1dB(A), the measurement would be considered invalid and repeat measurement would be required after re-calibration or repair of the equipment.
- The wind speed was frequently checked with a portable wind meter.
- During the monitoring period, the Leq, L10 and L90 were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- Free Field correction to the measurements should be made. Correction factor of +3dB(A) should be made to the free Field measurements.
- Noise monitoring would be cancelled in the presence of fog, rain, wind with a steady speed exceeding 5m/s, or wind gusts exceeding 10m/s.

Maintenance and Calibration

- The microphone head of the sound level meter and calibrator are cleaned with soft cloth in quarterly intervals.
- The meter is sent to the supplier or HOKLAS laboratory to check and calibrated in yearly intervals.

5.6 Action and Limit Levels

The Action and Limit levels for noise levels derived as illustrated in Table 5.5.

Table 5.5 Action and Limit Levels for noise monitoring

Time Period	Time Period	Action *	Limit *
Normal hours	0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A)

*Traceable to Method Statement (Environmental Monitoring and Audit Manual) of Contract No.CV/2002/08, Rev. 2

5.7 Event-Action Plans

Please refer to the Appendix F for details.

5.8 Results and Observation

5.8.1 Results

Only Day-time noise monitoring was carried out at monitoring station, N1 in this reporting month. Noise level is provided in Appendix C2. Graphical presentation of the monitoring result for the reporting month is shown in Appendix C3. A summary of the monitoring result is presented in Table 5.6.

Table 5.6 Summary of Impact Noise Level

Date	Start Sampling Time (hh:mm)	Noise Level dB (A)		
		$L_{eq(30min)}$	L_{10}	L_{90}
04/08/06	09:49	69.0	73.0	59.5

No Day-time noise monitoring result at monitoring station N1 exceeded the Action Level since no documented complaints on noise issue were received in this reporting month. Besides, no exceedances in Limit Level were recorded according to the result from Day-time noise monitoring.



5.8.2 Observation

The major noise source during the monitoring event was the dump truck traffic. Operation of the Fill Bank was from 08:00 to 21:00 from Monday to Sunday in the reporting month. Whereas the operation hours for barge activities in the TKO Basin was from 08:00 to 23:00. The monitoring result complied with the noise limit of 75 dB(A).



6.0 MARINE WATER QUALITY MONITORING

6.1 Monitoring Requirements

In accordance with the EM&A Manual, impact marine water quality monitoring was conducted three days per week. Measurements were taken at both mid-flood and mid-ebb tides at three depths (i.e. 1m below surface, mid depth and 1m from seabed) at the Control Station, C1 and Monitoring Station, M4.

6.2 Monitoring Locations

For the Reclamation Project, there were 4 Designated Monitoring Stations and 2 Designated Control Stations specified in the EM&A Manual. Upon the completion of the monitoring programme under Stage 2 reclamation works, the ET started monitoring events at the impact station M4 and the control station C1 from 18 May 2004 onwards. Figure 4.1 shows the location of the marine water quality monitoring stations. Table 6.1 describes the locations of the monitoring stations in the reporting month.

Table 6.1 Location of Marine Water Monitoring Stations

Station Description	Code	HK Metric Grid E	HK Metric Grid N
Control Station (Ebb tide)	C1	844 740.208	815 371.502
Monitoring Station, Tung Lung Chau Fish Culture Zone	M4	847 741.029	812 977.878

6.3 Monitoring Parameters

Monitoring of the marine water quality parameters are listed in Table 6.2.

Table 6.2 Marine Water Quality Monitoring Parameters

In-situ measurement	Laboratory analysis
Depth (m)	Suspended solids (mg/L)
Temperature (°C)	
Dissolved Oxygen (mg/L and % saturation)	
Turbidity (NTU)	
Salinity (ppt)	

6.4 Monitoring Frequency

The monitoring frequency of the marine water monitoring is summarized in Table 6.3.

Table 6.3 The monitoring frequency of the marine water

Parameter	Frequency	No. of Location	No. of Depths
Temperate	3 days/week, 2 tides/day	2 (C1 and M4)	3 (Surface, mid- depth & bottom)
Salinity			
DO			
Turbidity			
pH value			
Suspended solids			

6.5 Monitoring Methodology and Equipment Used

For Location of the monitoring stations

Global Positioning System (GPS)

A hand-held digital GPS was used to identify the designated monitoring stations prior to water sampling.



For Water Depth measurement

Echo Sounder

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

For In-situ Water Quality Measurement

All in-situ monitoring instruments were checked, calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme before use, and subsequently re-calibrated at 3 monthly intervals or sometimes longer throughout all stages of the water quality monitoring.

Dissolved Oxygen (DO) and temperature measuring equipment

A portable, weatherproof DO-measuring meter with built-in salinity compensation (YSI model 95) was used in the impact monitoring. It can be capable for measuring:

- a dissolved oxygen level in the range of 0-20 mg/L and 0-200 % saturation; and
- a temperature of 0-45 degree Celsius

This type of DO-measuring meter has a membrane electrode with automatic temperature compensation complete with a 50-foot cable. Wet bulb calibration for a DO meter was carried out before measurement at each monitoring location

Turbidity Measurement Instrument

A portable and weatherproof turbidity meter (HACH model 2100P) was used during impact monitoring. It has a photoelectric sensor capable of measuring turbidity between 0-1000 NTU. Response of the sensor was checked with certified standard Turbidity solutions before the start of measurement.

Salinity Meter

A portable salinity meter capable of measuring salinity in the range 0-40 ppt (YSI Model 30M) was provided for measuring salinity of the water at each monitoring location. It was checked with standard 30 ppt Salinity solutions before the start of measurement.

For Water Sampling and Sample Analysis

In-situ monitoring was carried out at three depths: 1 meter below water surface, at mid-depth and 1 meter above the seabed. If the water depth is less than 6 m, the mid-depth station shall be omitted and if the water depth is below 3 m, only the mid depth station shall be monitored.

Water Sampler

A water sampler comprising a transparent PVC cylinder, with a capacity of not less than 2 liters, was lowered into the water body at the predetermined depth. The both opening ends of the sampler were then closed accordingly by dead weight and water samples were collected.

Water Container

The sample container, made by high-density polythene, was rinsed with a portion of the water sample. The water sample was then transferred to the container, labelled with a unique sample ID and sealed with a screw cap. The water samples were stored in a cool box maintained at 4°C. The water samples were then delivered to a local HOKLAS-accredited laboratory (Environmental Laboratory, ETS-Testconsult Ltd, HOKLAS Registration No. 022) on the same day for analysis.

The summary of testing method of testing parameter as recommended by EIA or required by EPD, with the QA/QC results in accordance with the requirement of HOKLAS or international accredited scheme is shown in Table 6.4.

Table 6.4 Summary of testing procedures

Laboratory Analysis	Testing Procedure	Detection Limit
Total suspended solids	In house method based on APHA 19 th ed 2540D	1.0 mg/L



In-situ measurement

All in-situ monitoring instruments were checked, calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme before use. Responses of sensors and electrodes were checked with certified standard solutions before each use. Wet bulb calibration for a DO meter was carried out before measurement at each monitoring location.

At each measurement/sampling depth, two consecutive measurements of dissolved oxygen (DO), dissolved oxygen saturation (DOS), turbidity and salinity were taken. For turbidity measurement, the sample was collected by using sampler and then transferred to the cell. The reading of turbidity of the sample was directly recorded from the Turbidimeter (HACH 2100P) after inserting the cell to the Turbidimeter. For DO, DOS and Salinity, duplicate measurements were performed by dropping the calibrated probes of the corresponding monitoring equipments to the designated depths of the water column and taking readings after stabilized. The duplicate measurements were averaged if the difference was not greater than 25%.

Table 6.5 shows the equipment used for in-situ monitoring of water quality. The calibration certificates are attached in Appendix D1.

Table 6.5 Details of Marine Water Quality Monitoring Equipment (In-site measurement)

Parameter	Model	Date of Calibration	Due Date	Equipment No.
Coordinate of Monitoring stations	MLR GPS Navigator, SP24	---	---	EW/005/01*
Dissolved Oxygen (Saturation), Temperature	YSI Dissolved Oxygen Meter, YSI 95	30-05-2006 22-08-2006	29-08-2006 21-11-2006	EW/003/001*
Turbidity	HACH Model 2100P Turbid Meter	28-07-2006	28-10-2006	ET/0505/002
Salinity	YSI Model 30M	28-07-2006	28-10-2006	ET/0527/001
Water Depth	EAGLE Strata 128 Sonar	---	---	EW/002/02

Remark: (*) indicates the instrument should be calibrated on use.

6.6 Action and Limit Level

The water quality criteria, namely Action and Limit (A/L) levels are presented in the table below.

Table 6.6 Water Quality Action and Limit Levels

Parameter	Action Level *	Limit Level *
DO (mg/L)	<u>Surface & Middle</u> <5.45 mg/L (5%-ile of baseline data) <u>Bottom</u> <4.72 mg/L (5%-ile of baseline data)	<u>Surface & Middle</u> <5.10 mg/L (1%-ile of baseline data) <u>Bottom</u> <2.00 mg/L
SS (mg/L) (Depth-averaged)	>6.74 mg/L (95%-ile of baseline data) or >120% of the upstream control station's SS at the same tide on the same day	>7.67 mg/L (99%-ile of baseline data) or >130% of the upstream control station's SS at the same tide on the same day
Turbidity (NTU) (Depth-averaged)	>4.28 NTU (95%-ile of Impact data) or >120% of the upstream control station's turbidity at the same tide on the same day	>4.58 NTU (99%-ile of Impact data) or >130% of the upstream control station's turbidity at the same tide on the same day

* Traceable to Method Statement (Marine Water Quality Monitoring and Audit Manual) of Contract No.CV/2002/08, Rev. 2, Section 3.1 – 3.21

6.7 Event and Action Plan

Please refer to the Appendix F for details.



6.8 Monitoring Duration and Period in this reporting month

Water quality monitoring on 02 August 2006 (mid-ebb) was cancelled due to bad weather (Typhoon Signal No.3).

Below is the time schedule for the water quality monitoring events that were conducted in this reporting month:

Table 6.7 Time Schedule of Water Quality Monitoring

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

Remark (▼) : Marine water quality monitoring carried out by ET
(◆) : Marine water quality on 02 August 2006 (mid-ebb) was cancelled due to bad weather (Typhoon Signal No.3)

The daily marine water quality monitoring duration are detailed in Appendix D2.

6.9 Marine Water Quality Monitoring Results

The impact water quality measurement results are detailed in Appendix D2. Appendix D3 presents the water quality monitoring data and graphical presentations of monitoring results respectively.

The summary of marine water quality exceedances is shown in Table 6.8.

Table 6.8 Summary of Marine Water Quality Exceedances in this reporting month

Station	Exceedance Level	DO		Turbidity		SS		Total	
		Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb
C1	Action	0	0	0	0	0	0	0	0
	Limit	0	0	0	0	0	0	0	0
M4	Action	0	0	0	0	0	0	0	0
	Limit	0	0	0	0	0	0	0	0

According to the summary of marine water monitoring results, no exceedance of Action and Limit Level was recorded in this reporting month.



7.0 IEC SITE AUDIT AND WEEKLY ET SITE INSPECTIONS

7.1 IEC Site Audit

7.1.1 During this reporting period, the IEC team conducted total of four independent site audits of the Contract CV 2005/12 site (Fill Bank at TKO Area 137) and the Contract CV 2004/13 site (Temporary C&DMSF at TKO Area 137).

7.1.2 Findings of the site audits have been recorded on site checklists, copies of which were submitted to the Contractor for their further action as appropriate, and to the Client for their records. Key issues were highlighted to the Contractor's representative at the completion of each site audit to ensure that they were aware of the problem(s) identified and where necessary, to take immediate corrective actions. A copy of the completed checklists are appended to this report in Appendix H.

Table 7.1 Dates of Site Audits in July 2006

Date of Audit	Work Period	Site Audit Checklist Submitted Under IEC's Ref No.
10 August 2006	Operations of Fill Bank & CWSF	8116/2965 & 8116/2966
25 August 2006	Operations of Fill Bank	8116/2994

7.1.3 The major findings recorded during the site audits conducted during this reporting period are summarized below. Full details are provided in the site audit checklists presented in Appendix H.

Table 7.2 Key Findings of Site Audits in July 2006 for Contract No. CV/2005/12

Date	Key Findings	Action Taken by the Contractor
10 Aug 06	• The Contractor was reminded to clear the mud, grasses and debris in all the trapezoidal channels.	• (refer to footnote 1)
	• No drip tray was provided for the generator of CCTV. The Contractor should provide a drip tray underneath the generator.	• (refer to footnote 1)
	• Black smoke was found emitted from an excavator. The Contractor was reminded to regularly maintain all the equipments to avoid black smoke emission.	• (refer to footnote 1)
	• The silt curtains were still found damaged. The Contractor is requested to repair the silt curtains as soon as possible. During re-installation, the Contractor should ensure the separation between the silt curtains is 80m in accordance with CEDD's drawing FM10035-16. In addition, the silt curtains should be properly secured to weights at the seabed bottom.	• (refer to footnote 1)
	• It is found that the chemical waste storage area was removed from the maintenance workshop. The Contractor is reminded to provide chemical waste storage for the site.	• (refer to footnote 1)
	• Some wheels/tyres stored near to the water filling station were not covered. The Contractor was reminded to cover the wheels/tyres by impervious sheeting to avoid stagnant water.	• (refer to footnote 1)
	• The door of a compressor (not in operation) located near to the water filling station was opened. The Contractor was reminded to close the door of the compressor when it is being used.	• (refer to footnote 1)



Date	Key Findings	Action Taken by the Contractor
25 Aug 06	<ul style="list-style-type: none"> The Contractor was reminded to clear the mud, grasses and debris in all the trapezoidal channels. 	<ul style="list-style-type: none"> (refer to footnote 1)
	<ul style="list-style-type: none"> Chamber A to C need to be cleared of debris and dead vegetation. 	<ul style="list-style-type: none"> (refer to footnote 1)
	<ul style="list-style-type: none"> Floating waste (plastic bottles, plastic bags, paper, etc.) were observed in the bay of the Barge Handling Area. No waste collection vessel was noted in the waters at the time of the site audit. 	<ul style="list-style-type: none"> (refer to footnote 1)
	<ul style="list-style-type: none"> The silt curtain (left side of entrance to barge handling area) had still not been replaced as at the time of the site audit. The Contractor is requested to repair the silt curtains as soon as possible. During re-installation, the Contractor should ensure the separation between the silt curtains is 80m in accordance with CEDD's drawing FM10035-16. In addition, the silt curtains should be properly secured to weights at the seabed bottom. 	<ul style="list-style-type: none"> (refer to footnote 1)
	<ul style="list-style-type: none"> As advised by the Contractor, the Maintenance Workshop has now been reestablished near the upstream point of DP4 (close to the southern discharge channel from SENT Landfill). The Contractor has been requested to review the appropriateness of locating the works area so close to the discharge channel. If there are no other alternative locations, the Contractor has been reminded to provide proper chemical waste storage for the area to prevent any spills into the adjacent channel. 	<ul style="list-style-type: none"> (refer to footnote 1)
	<ul style="list-style-type: none"> Wheels/tyres continue to be stored near to the water filling station and left uncovered. Moreover, a pile of 8-9 disused tyres were left on the bare soil in Portion J. The Contractor was reminded to cover the wheels/tyres by impervious sheeting to avoid the accumulation of stagnant water and to dispose of the disused tyres in Portion J to also prevent accumulation of stagnant water. 	<ul style="list-style-type: none"> (refer to footnote 1)
	<ul style="list-style-type: none"> During off-loading of material from the barges, some material has fallen onto the edge of the seawall in front of the concrete blocks). The material should be removed immediately to prevent material from washing out into the marine waters. If possible, the concrete blocks should also be pushed outwards towards the seawall edge to prevent recurrence of this situation. 	<ul style="list-style-type: none"> (refer to footnote 1)

Note

1. The contractor was requested and reminded to provide the IEC's site inspection corrective action form within one week of the issuance. However, as at the issue of this report, no response to the corrective action form from the Contractor was received.

7.1.4 Following from the previous two reporting periods (June 2006 and July 2006), there were again no air quality exceedances recorded during this reporting period. Based on observations recorded during site inspections and site supervision events, the Contractor has implemented most of their dust prevention measures during the reporting period. However, the CV/2005/12 Contractor was still reminded to ensure that all dust mitigation measures, particularly those near the site entrance,



were operated according to their design merits to ensure that fugitive dust impacts to neighbouring land users was minimized.

- 7.1.5** The frequency of road / platform watering was considered to be acceptable in the reporting period. Nevertheless, the Contractor has been reminded to regularly review the frequency of road watering in light of the sunny and dry weather conditions.
- 7.1.6** The Contractor was reminded to regularly clear the muds, grasses and debris along all the trapezoidal channels and chambers.
- 7.1.7** The Contractor was also reminded to repair/re-provide the silt curtain and maintain the separation of 80 m between two sides in accordance with CEDD's drawing FM10035-16. In addition, the silt curtain should be properly secured to weights at the seabed bottom.

7.2 Weekly ET Site Inspections

Weekly ET site inspections were carried out by ET to monitor the timely implementation of proper environmental pollution control and mitigation measures for the Project. In this reporting month, five weekly site inspections were conducted (04, 10, 16, 22 and 28 August 2006). After each site inspection, the Contractor was notified of the ET's observations and recommendations. A follow-up action plan detailing the environmental observations had also been prepared by the ET. The Contractor then completed this plan to propose / report their remedial works. The Contractor should also submit completed follow-up action report to ET by e-mail. This follow-up action plan submission procedure was adopted for each subsequent ET's inspection to notify all the relevant parties of the Contractor's follow up actions. The weekly site inspection reports are attached in Appendix I. Summaries of the weekly site inspection findings in this reporting month are described as follows:

Air Quality

- The major dust sources were dump truck movement on the unpaved haul roads and loading & unloading activities on various working platforms in the Fill Bank. The Contractor deployed water bowsers to dampen the haul roads and the working platforms;
- A road sweeper was used to remove settled dust particulates outside the site egress on Wan Po Road;
- Several automatic sprinklers served to dampen the haul roads outside the site office and on the ramp to the stockpiling area;
- Wheel washing facilities were operating during weekly site inspections. Besides, the Contractor operated several mist spraying systems at the site egress and weighbridge respectively. The truckloads were dampened during inspection of fill material at CEDD Combined Reception Office;
- No potential fugitive dust from vehicle movement was observed in this reporting month. The Contractor was still reminded to water the haul road more frequently during dry season;
- The dump trucks were operating below the speed limit in the Fill Bank. There were sufficient speed limit signs on site to advise the drivers;
- The fill material was usually dampened on the barge. Dust impact was minimal from the barge delivery and unloading activity at the BHA;
- Dark smoke emission was noted from the excavators during weekly site inspections on 10 and 28 August 2006. The Contractor was reminded to maintain all the Powered Mechanical Equipment (PME) regularly; and
- Other than the Fill Bank operation, dust sources also included road paving works of Wan Po Road outside the site egress, operation of PBR2 at Portion J of the Fill Bank, temp C&DMSF at Portion K, delivery of rock fill material from the SENT Landfill to the EPD's barging point and associated dumping activity, operation of the SENT Landfill, vehicular movement and wind erosion on Wan Po Road.



Noise

- The major noise source was dump truck traffic in the Fill Bank. Since the nearby NSR were remote from the Fill Bank, the noise impact was minimal; and
- During weekly site inspection on 10 August 2006, the door of an air compressor was found opened during operation. The Contractor was reminded to close the door of the said plant during its operation. The observation was verified during the subsequent weekly site inspection on 16 August 2006 and no further action was required.

Water Quality

- Debris and mud were observed to have accumulated at the drainage channel at Chamber A during the several ET weekly site inspections in this reporting month. The Contractor should clean up the drainage channel regularly. Since the finding was still observed during the last weekly site inspection in this reporting month, the finding will be verified in the coming month;
- Only the left hand side of the silt curtain was found repaired during the weekly site inspection on 22 August 2006. The Contractor was reminded to repair the right side of silt curtain immediately. Since the repairing work of silt curtain was not finished at the end of this reporting month, it will be verified in the coming month;
- No stagnant water was observed to be accumulated at site area in this reporting month. The contractor was still reminded to drain the stagnant water out or use pesticide to prevent mosquito breeding especially after the rain; and
- The Contractor should clean up the fill materials accumulated on the concrete embankment at the BHA as soon as each unloading activity is completed to avoid the fill materials from being washed into the sea.

Chemical and Waste Management

- The Contractor provided waste skips to collect general refuse and disposal of them regularly to the SENT Landfill. In this reporting month, 1.67 tons C&D waste were disposed to SENT Landfill and no waste oil was collected by licensed waste collector;
- The chemical waste was stored in the Chemical Waste Storage Area (CWSA). The Contractor should dispose chemical wastes regularly to avoid over accumulation of chemical waste on site;
- Follow-up action to the previous month, a generator at water truck filling station was found with drip tray during the weekly site inspection on 04 August 2006. However, another generator at CCTV station was found without drip tray. The Contractor should remind the site workers to provide appropriate drip trays for all generators.

Landscape and Visual

- The germination rate on the hydroseeded panels at Portion A, B, G, H and I were observed to be satisfactory in this reporting month. The Contractor was still advised to maintain the hydroseeded panels properly; and
- Sufficient lighting was provided for the Fill Bank operation in the evening.

Site Practices

- During the weekly site inspection on 10 August 2006, many tires was found placed improperly on the ground at water truck filling station. The Contractor was reminded to cover the many tires with tarpaulin sheets in order to avoid the accumulation of rainy water. The observation was found improved during the subsequent weekly site inspection on 16 August 2006;
- Sufficient rubbish skips had been provided at site by the Contractor and the site area was found tidy and clean; and
- The Contractor had provided drip tray for all generators in order to avoid oil spillage.

Landfill Gas

- The registered safety officer carried out landfill gas monitoring (oxygen, carbon dioxide and methane) twice per day for each temporary office in this reporting month;
- Equipments used in the monitoring have been calibrated for all these three parameters; and
- All the monitoring results were satisfactory.



7.3 Review of Environmental Monitoring Procedures

The monitoring works conducted by the Environmental Team were inspected regularly. The observations for the monitoring works were recorded and summarized as follows:

Air Quality Monitoring

- The monitoring team recorded the observations around the monitoring stations within and outside of the construction site.
- The monitoring team recorded the temperature, air pressure and general weather condition on the monitoring day.

Noise Monitoring

- The monitoring team recorded the observations around the monitoring station, which might affect the results.
- Major noise sources were identified and recorded.

Water Quality Monitoring

- The monitoring team recorded the observations around the monitoring stations, which might affect the results.

7.4 Assessment of Environmental Monitoring Results

All monitoring results were audited against the Action and Limit levels and any exceedances would be validated.

According to the summary of marine water monitoring results, no exceedance of Action and Limit Level was recorded in this reporting month.

No exceedances were recorded in air quality and noise monitoring in this reporting month.

The monitoring results in this reporting period were comparable with those of baseline period. Detailed discussions were given in Section 2, 3 and 4 of this Report.

7.5 Advice on the Solid and Liquid Waste Management Status

The Contractor should provide sufficient preventive measures during equipment maintenance works so as to avoid oil leakage on the ground. In the event of any oil leakage, the Contractor should clean up the polluted soil and handle all the materials used for this cleaning works as chemical waste.

Concrete bundings were erected outside the CEDD combined reception office and near the automatic wheel washing facilities for storing generator sets and oil drums. The drain outlet of all the bunded areas should be plugged properly. Besides, pre-cast drip trays were provided for oil drums at several areas, such as workshop and chemical storage area. The Contractor should collect and dispose of any stagnant water accumulated in the concrete bunding and drip trays and handle them as chemical waste.

The Contractor should use suitable containers with proper labels to store chemical wastes in accordance with Code of Practice on the Packaging, Labeling and Storage of Chemical Waste. The Contractor should also advise their workers of the proper procedures in handling the chemical waste. All the trip tickets for chemical waste disposal were properly kept in the site office. No chemical waste disposal was undertaken in the reporting month.

The Contractor was reminded to increase the frequency of inspection and cleaning of the site drainage system, including permanent desilting chambers, desilting facilities, oil interceptor bypass tank, DP3 and DP4 and all the trapezoidal channels. Moreover, the Contractor should apply approved pesticides in the stagnant water ponds.



All the runoff from the parking area should be pumped to the desilting facilities and oil interceptors to remove suspended solids and oil & grease prior to discharge.



9.0 ENVIRONMENTAL NON-CONFORMANCE

9.1 Summary of air quality, noise and marine water quality

No exceedances of Action and Limit Level of 24-hour and 1-hour TSP monitoring results were recorded during the reporting month.

No day-time noise level measured at all monitoring stations exceeded the Action and Limit Level in the reporting month.

According to the summary of marine water monitoring results, no exceedance of Action and Limit Level was recorded in this reporting month.

9.2 Summary of Environmental Complaints

No complaint was received in this reporting month.

9.3 Summary of Notification of Summons and Prosecution

There was no notification of summons respect to environmental issues registered in this reporting month.

10.0 IMPLEMENTATION STATUS

10.1 Implementation Status of Environmental Mitigation Measures

An updated summary of the Environmental Mitigation Implementation Schedule (EMIS) is presented in Appendix J. Most of the necessary mitigation measures were implemented properly. Any deficiencies were noted in the remarks of the schedule.

10.2 Implementation Status of Event and Action Plan

There was no exceedance on air quality and noise monitoring parameters recorded in this monitoring month. Hence no further actions were required.

According to the summary of marine water monitoring results, no exceedance of Action and Limit Level was recorded in this reporting month. Hence, no further actions were required.

10.3 Implementation Status of Environmental Complaint, Notifications of Summons and Successful Prosecutions Handling

No complaints, notifications of summons and successful prosecutions were received in this reporting month. A summary of environmental complaints, notifications of summons and successful prosecutions was given in Table 10.1. Further details of the Complaint Log present in Appendix M.

Table 10.1 Summary of Environmental Complaints and Prosecutions

<i>Complaints logged</i>		<i>Summons served</i>		<i>Successful Prosecution</i>	
<i>August 2006</i>	<i>Cumulative</i>	<i>August 2006</i>	<i>Cumulative</i>	<i>August 2006</i>	<i>Cumulative</i>
<i>0</i>	<i>1</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>

11.0 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

Impact monitoring of air quality and noise were carried out at designated locations in accordance with the EM&A Manual in this reporting month.

According to the summary of air monitoring results, no exceedances of Action and Limit Level of 24-hour and 1-hour TSP monitoring results were recorded during the reporting month.

Impact noise level monitoring was performed on 04 August 2006. The noise level measured at the monitoring station complied with the Limit Level of 75dB(A). No complaint was received regarding noise issue.

According to the summary of marine water monitoring results, no exceedance of Action and Limit Level was recorded in this reporting month.

According to the ET weekly site inspections and IEC site audits carried out in this reporting month, the Contractor generally implemented sufficient dust mitigation measures, including operation of the mist spraying systems and automatic wheel washing facilities, dampening of haul roads and stockpiling areas. However, the silt curtain enclosed the Marine Barging Area was found damaged after the Typhoon on 17 May 2006. The Contractor should repair it immediately.

No complaints, prosecutions or notifications of summons were received in this reporting month.

Recommendations

According to the environmental site inspections performed in the reporting month, the following recommendations were provided:

Air Quality

- Ensure the frequency of water spraying on haul roads, unloading areas and stockpiles to be sufficient to suppress the dust sources;
- Provide proper maintenance for the powered mechanical equipment and barges to avoid emission of dark smoke;
- Provide water spraying onto the truckloads during inspection of fill material;
- Conduct road sweeping on the public road and the main haul roads outside and near the site egress by the road sweeper. Undertake water spraying on stockpiling area by water bowers;
- Erect adequate speed limit signs to advise the truck drivers of the speed limit;
- Operate mist spraying systems and automatic water sprinklers in the Fill Bank;
- Implement the dust mitigation measures for the construction activities;
- Designate proper haul roads to ensure effective water spraying; and
- Ensure all vehicles to be washed before leaving the site egress by provision, operation and maintenance of automatic wheel washing facilities.

Noise

- Conduct noisy activities at a farther location from the NSRs.



Water Quality

- Maintain the drainage system, including the trapezoidal channels, permanent desilting chambers, DP3 & DP4 regularly;
- Operate and maintain the silt curtains regularly;
- Operate the cleaning vessel within the TKO Basin regularly;
- Provide proper treatment for the oil discharge from the area near air monitoring station AA1;
- Clean up the fill material on the concrete pavement at BHA frequently; and
- Remove the stagnant water or provide approved pesticides for the stagnant water in the permanent desilting chambers, if any.

Chemical and Waste Management

- Remove waste materials from the site to avoid accumulation regularly;
- Handle and store chemical wastes properly;
- Remove unwanted material in the existing stockpiles and avoid further dumping of such material;
- Provide and maintain sufficient drip trays for diesel drums, chemical containers, chemical waste storage drums and diesel operated generator set;
- Maintain mesh screen on top of the additional drainage, DP3 to avoid improper dumping of rubbish;
- Maintain good housekeeping at the workshop area;
- Ensure sufficient tarpaulin sheets are provided to cover drip trays; and
- Avoid soil being polluted during oil filling and equipment maintenance; hence, properly remove and store the contaminated soil, if any.

Landscape and Visual

- Provide hydroseeding on the exposed slopes, on which the final profile has been formed;
- Erect all the site hoarding / chaining fences in accordance with agreed design at proper location; and
- Maintain the hydroseeded slopes in accordance with the Landscape Plan.



12.0 FUTURE KEY ISSUES

12.1 Construction Programme for the Coming Month

As informed by the Contractor, the activities to be conducted by them in the next month included:

- *Manage the incoming public fill dump trucks arriving through land access;*
- *Transport temporary stockpiled public fill from the Barge Handling Area (BHA) to Stockpile Areas or the Sorting Facility for Penny's Bay Reclamation Stage 2 (PBR2);*
- *Transport stockpile public fill from Stockpile Areas to the Sorting Facility for Penny's Bay Reclamation Stage 2 (PBR2);*
- *Direct some incoming public fill dump trucks to the Sorting Facility for Penny's Bay Reclamation Stage 2 (PBR2) for unloading;*
- *Routine site cleaning and maintenance of internal haul roads and access roads;*
- *Routine implementation of environmental mitigation measures such as dust suppression by water spraying, cleaning of nearby public roads by using road sweeper and collection of floating debris inside a berthing basin within the site boundary;*
- *Drainage improvement works within the Fill Bank;*
- *Landscaping works along the haul road towards the Construction Wastes Sorting Facility (CWSF);*
- *Construction of some sections of concrete pavements for access roads within the Fill Bank; and*
- *Construction of a pair of temporary working platforms along the haul road towards the CWSF for the future use by public dump truck drivers.*

12.2 Key Issues for the Coming Month

Key issues to be considered in the coming month include:

- Chemical and waste management
- Treatment of runoff and wastewater prior to discharge
- Dust generated from loading and unloading activities; and
- Dust generated from dump trucks traffic.

Mitigation measures to be required in the coming month:

Air Quality Impact

- To provide adequate water spraying on haul roads and working platform;
- To operate and maintain automatic wheel washing facilities properly;
- To dampen the fill material prior to unloading or movement;
- To provide road sweeping on the haul road near site egress and the public roads outside site egress;
- To ensure implementation of the dust mitigation measures for the construction activities;
- To maintain proper operation of the mist spraying system;
- To provide proper maintenance for vehicles and machines on site; and
- To investigate any other dust sources around the air sensitive receivers.

Noise

- To switch off equipment if not in use;
- To operate silent equipment;
- To identify the noise sources inside and outside of the site;
- To follow up any exceedance caused by the Fill Bank operation; and
- To re-schedule the work activities in the event of valid noise exceedance.



Water Quality Impact

- To maintain the drainage system in the Fill Bank;
- To ensure the cleanliness of oil interceptor bypass tanks and all the drainage channels;
- To maintain the existing silt trap to ensure good efficiency of wheel wash facilities;
- To repair, inspect and maintain the silt curtains regularly;
- To provide covers for the drip trays to avoid stagnant water pond due to rainfall;
- To provide proper treatment for oily water discharged from the area around air monitoring station AA1;
- To deploy a cleaning vessel to remove floating rubbish in the TKO Basin;
- To clean up the concrete paved area at Portion I every night to avoid fill materials from being washed into the sea; and
- To avoid any stagnant water or provide insecticide to avoid mosquito breeding in the Fill Bank.

Chemical and Waste Management

- To remove waste from the site regularly;
- To properly store and handle chemical wastes on site;
- To implement trip ticket system for all the imported public fill and general refuse disposal;
- To provide and manage sufficiently sized drip trays for diesel drums or chemical containers;
- To remove existing unwanted material in the stockpiles and avoid improper disposal at the Fill Bank through inspection of imported truckloads;
- To maintain proper housekeeping at the workshop area;
- To remove the oil stains in the event of leakage and handle all materials used for this cleaning work as chemical waste;
- To maintain mesh screen on top of the additional drainage, DP3 opening to avoid improper dumping of rubbish into this channel; and
- To identify C&D material by packaging, labeling, storage, transportation and disposal in accordance with statutory regulations.

12.3 Monitoring Schedule for the Coming Month

The proposed EM&A program of the coming month is attached in Appendix L.



Appendix A

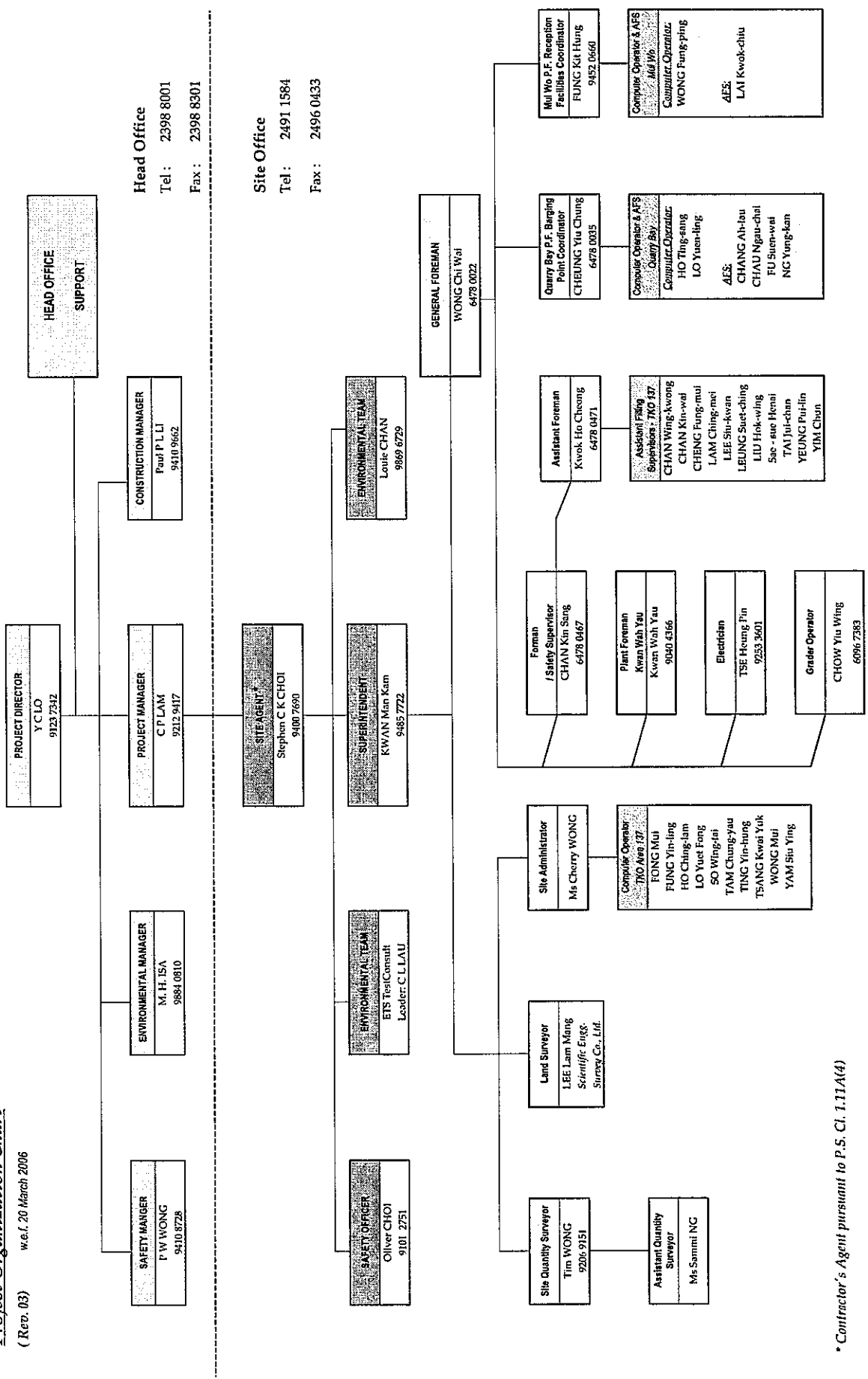
Organization Chart and Lines of Communication



CEDD Contract No. CV/2005/12
 Operation of Public Fill Reception Facilities at
 Tseung Kwan O Area 137, Quarry Bay and Mui Wo

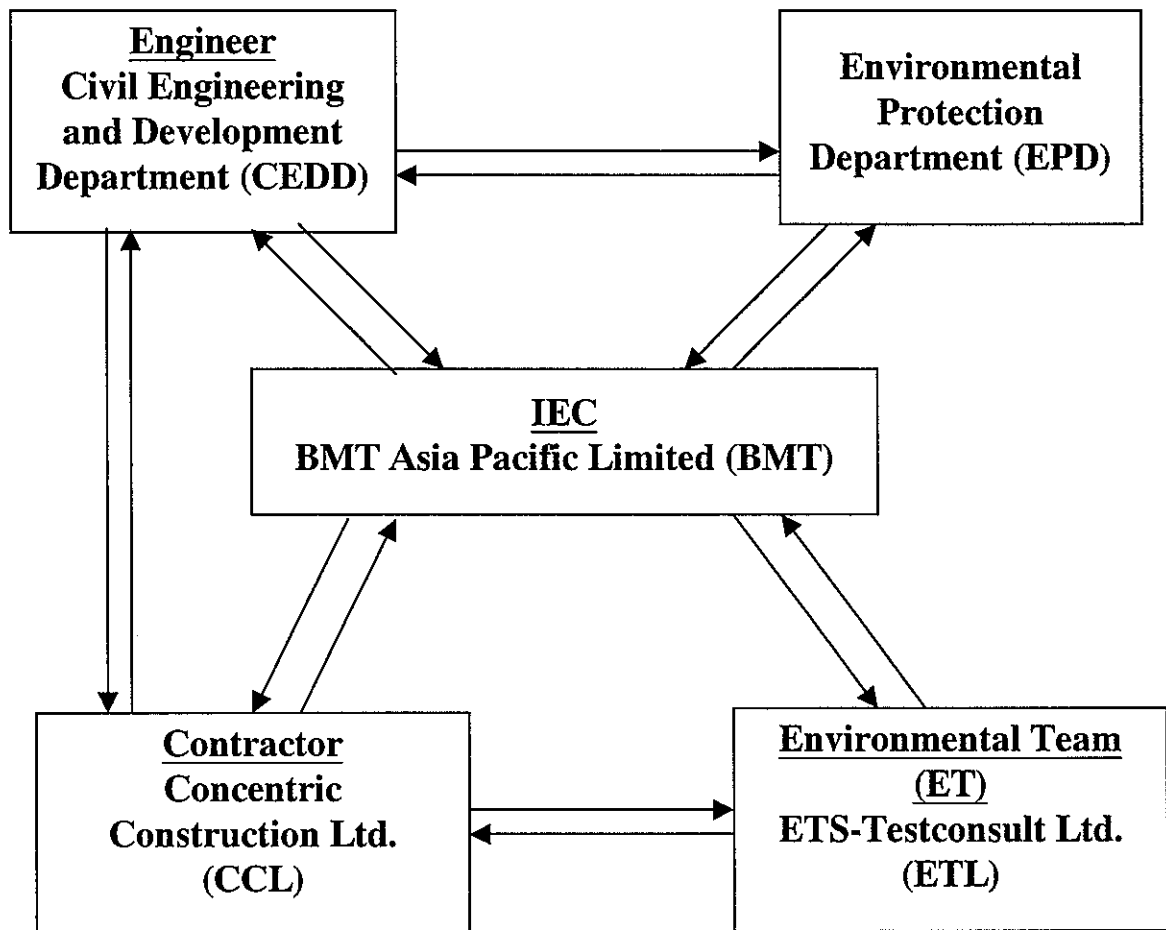
Project Organization Chart

(Rev. 03) w.e.f. 20 March 2006



* Contractor's Agent pursuant to P.S. Ci. 1.11A(4)

Lines of Communication





Appendix B1

Calibration Certificates for Air Quality Monitoring Equipments



東業德勤測試顧問有限公司
ETS-TESTCONSULT LIMITED

8/F, Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fotan, Hong Kong
Tel : 2695 8318 E-mail : etl@ets-testconsult.com
Fax : 2695 3944 Web site : www.ets-testconsult.com

TEST REPORT

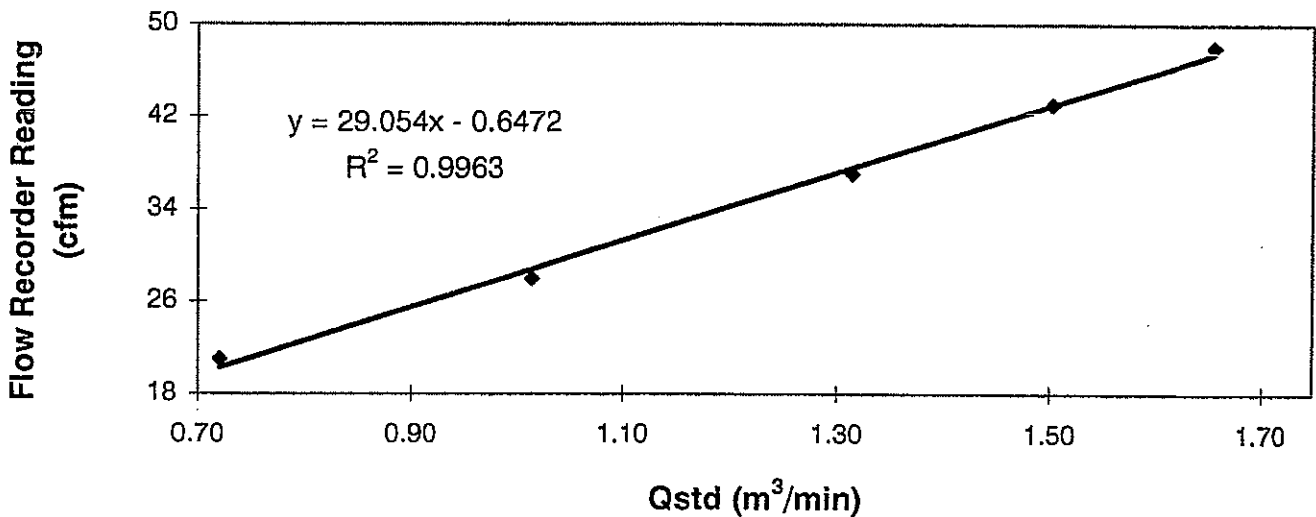
Calibration Report
of
High Volume Air Sampler

Manufacturer : Greasby GMW **Date of Calibration** : 21 July 2006
Serial No. : 1176 (ET / EA / 003 / 05) **Calibration Due Date** : 20 September 2006
Method : Based on Operations Manual for in series calibration method by TISCH
ENVIRONMENTAL Model Te-5025A calibration kit

Results :

Flow recorder reading (cfm)	48	43	37	28	21
Qstd (Actual flow rate, m ³ /min)	1.65	1.50	1.31	1.01	0.72
Pressure :	755.16 mm Hg			Temp. :	307 K

Air Sampler 1176 Calibration Curve
Site: Tseung Kwan O (AA2)
Date of Calibration: 21 July 2006

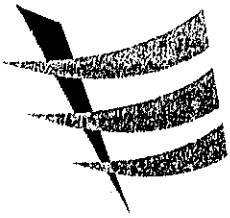


Acceptance Criteria : Correlation coefficient (r) of the calibration curve greater than 0.990 after a 5 point calibration

The high volume sampler complies * / ~~does not comply~~ * with the specified requirements and is deemed acceptable * / unacceptable * for use.

Calibrated by : H. T. Chow
H. T. Chow
(Asst. Environmental Officer)

Approved by : Linda Law
Linda Law
(Environmental Officer)



東業德勤測試顧問有限公司
ETS-TESTCONSULT LIMITED

8/F., Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fotan, Hong Kong
Tel : 2695 8318 E-mail : etl@ets-testconsult.com
Fax : 2695 3944 Web site : www.ets-testconsult.com

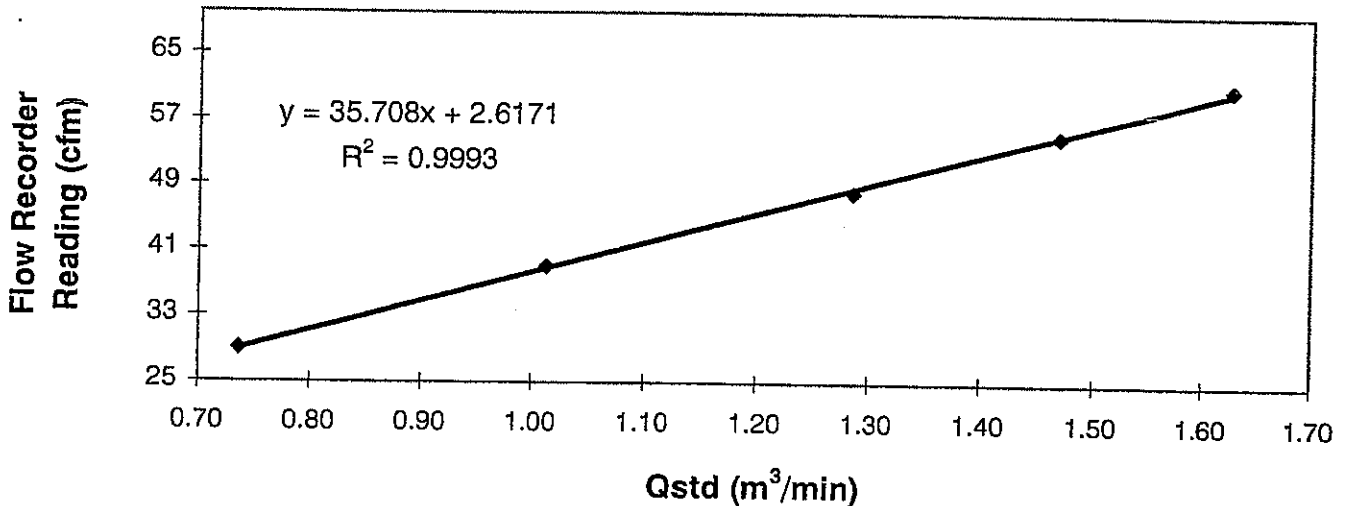
TEST REPORT

**Calibration Report
of
High Volume Air Sampler**

Manufacturer : Greasby GMW Date of Calibration : 21 July 2006
Serial No. : 10347 (ET / EA / 003 / 06) Calibration Due Date : 20 September 2006
Method : Based on Operations Manual for in series calibration method by TISCH
ENVIROMENTAL Model Te-5025A calibration kit

Results	Flow recorder reading (cfm)	61	55	48	39	29
	Qstd (Actual flow rate, m ³ /min)	1.63	1.47	1.29	1.01	0.74
	Pressure :	755.16 mm Hg		Temp. :	307 K	

**Air Sampler 10347 Calibration Curve
Site:Tseung Kwan O (AA1)
Date of Calibration: 21 July 2006**



Acceptance Criteria : Correlation coefficient (r) of the calibration curve greater than 0.990 after a 5 point calibration

The high volume sampler complies * / ~~does not comply~~ * with the specified requirements and is deemed acceptable * / unacceptable * for use.

Calibrated by : H. T. Chow
(Asst. Environmental Officer)

Approved by : Linda Law
(Environmental Officer)



TISCH ENVIRONMENTAL, INC.
 145 SOUTH MIAMI AVE.
 VILLAGE OF CLEVELAND, OH 45002
 513.467.9000
 877.263.7610 TOLL FREE
 513.467.9009 FAX
 WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Jun 16, 2006 Rootmeter S/N 9833620 Ta (K) - 296
 Operator Tisch Orifice I.D. - 1061 Pa (mm) - 753.11

PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1	NA	NA	1.00	1.3950	3.1	2.00
2	NA	NA	1.00	0.9820	6.3	4.00
3	NA	NA	1.00	0.8770	7.8	5.00
4	NA	NA	1.00	0.8360	8.6	5.50
5	NA	NA	1.00	0.6910	12.6	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
0.9935	0.7122	1.4125	0.9959	0.7139	0.8866
0.9893	1.0074	1.9976	0.9916	1.0098	1.2539
0.9872	1.1256	2.2334	0.9895	1.1283	1.4019
0.9862	1.1797	2.3424	0.9885	1.1825	1.4703
0.9809	1.4195	2.8251	0.9832	1.4229	1.7732
Qstd slope (m) = 1.99638			Qa slope (m) = 1.25010		
intercept (b) = -0.01172			intercept (b) = -0.00736		
coefficient (r) = 0.99998			coefficient (r) = 0.99998		
y axis = SQRT[H2O(Pa/760)(298/Ta)]			y axis = SQRT[H2O(Ta/Pa)]		

CALCULATIONS

Vstd = Diff. Vol [(Pa-Diff. Hg)/760] (298/Ta)
 Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa]
 Qa = Va/Time

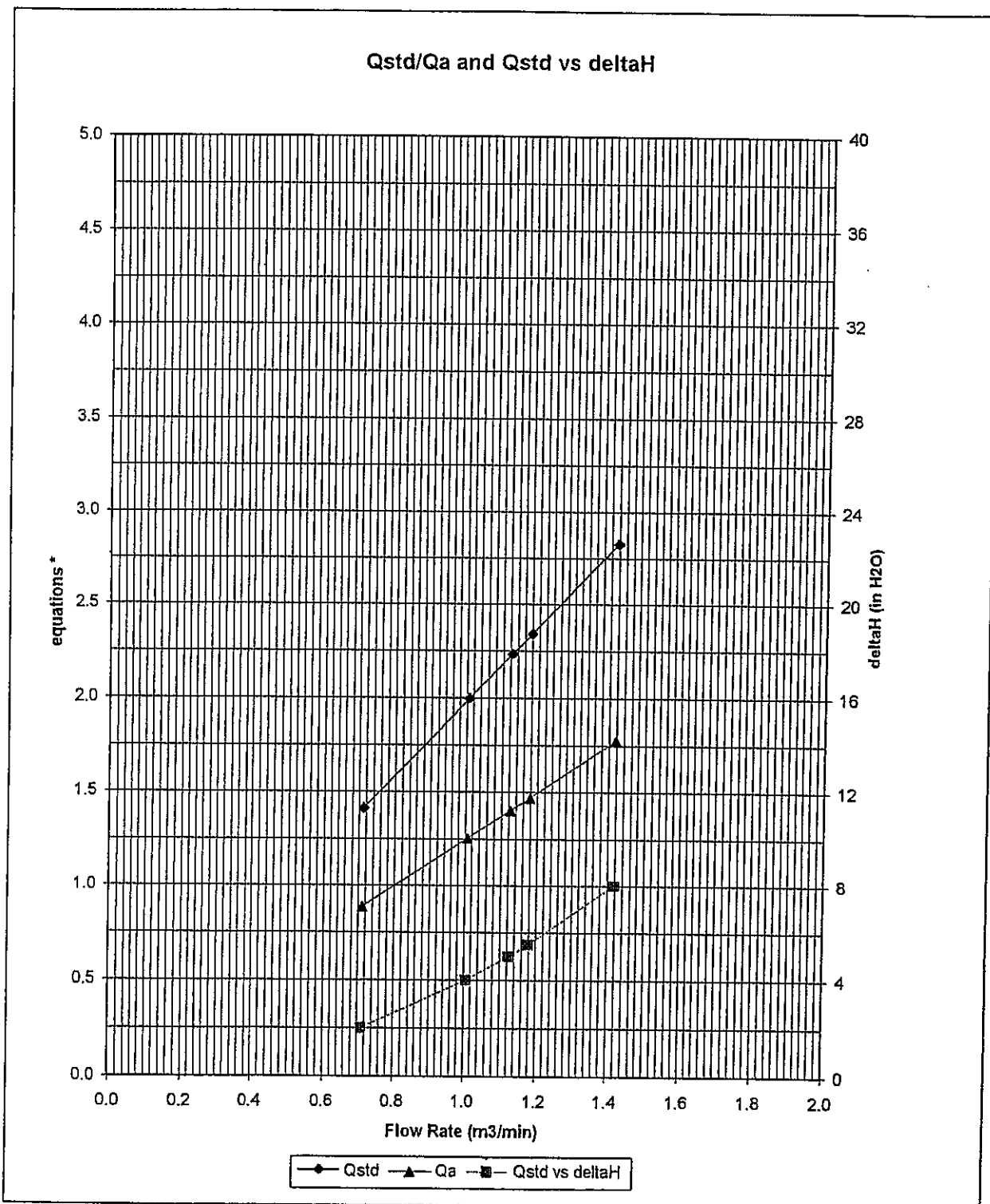
For subsequent flow rate calculations:

Qstd = 1/m{ [SQRT(H2O(Pa/760)(298/Ta))] - b }
 Qa = 1/m{ [SQRT H2O(Ta/Pa)] - b }



TISCH ENVIROMENTAL, INC.
 145 SOUTH MIAMI AVE.
 VILLAGE OF CLEVES, OH 45002
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 513.467.9009 FAX
 WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT



* y-axis equations:

Qstd series:

$$\sqrt{\Delta H \left(\frac{P_a}{P_{std}} \right) \left(\frac{T_{std}}{T_a} \right)}$$

Qa series:

$$\sqrt{(\Delta H (T_a / P_a))}$$

#1061



Appendix B2

Air Quality Monitoring Results

Summary of 24-hr TSP Monitoring Results

Monitoring Station : AA1
Location : Outside CEDD Site Office

Start Date	Start Time	Finish		Elapse Time		Sampling Time (hrs)	Flow Rate (m ³ /min.)		Average (m ³ /min.)	Filter Weight (g)		Conc. (µg/m ³)
		Date	Time	Initial	Final		Initial	Final		Initial	Final	
04/08/06	14:15	05/08/06	14:16	9220.88	9244.89	24.01	1.21	1.21	1.21	2.8989	3.1429	140
10/08/06	14:15	11/08/06	14:16	9247.89	9271.90	24.01	1.02	1.02	1.02	2.8826	3.0369	105
16/08/06	14:15	17/08/06	14:15	9274.90	9298.90	24.00	0.99	0.99	0.99	2.8693	3.0732	143
22/08/06	15:30	23/08/06	15:46	9301.90	9326.17	24.27	1.02	1.02	1.02	2.8644	3.0976	157
28/08/06	15:30	29/08/06	16:02	9329.17	9353.70	24.53	1.02	1.02	1.02	2.8709	3.1321	174

Monitoring Station : AA2
Location : Site Egress

Start Date	Start Time	Finish		Elapse Time		Sampling Time (hrs)	Flow Rate (m ³ /min.)		Average (m ³ /min.)	Filter Weight (g)		Conc. (µg/m ³)
		Date	Time	Initial	Final		Initial	Final		Initial	Final	
04/08/06	14:15	05/08/06	14:15	12514.42	12538.42	24.00	1.67	1.67	1.67	2.8821	3.1923	129
10/08/06	14:15	11/08/06	14:15	12541.42	12565.42	24.00	1.12	1.12	1.12	2.9007	3.0797	111
16/08/06	14:15	17/08/06	14:16	12568.42	12592.43	24.01	1.12	1.12	1.12	2.8572	3.1137	159
22/08/06	15:30	23/08/06	15:57	12595.43	12619.88	24.45	1.12	1.12	1.12	2.8751	3.1478	166
28/08/06	15:30	29/08/06	15:32	12622.88	12646.92	24.04	1.16	1.16	1.16	2.8877	3.2056	190

Summary of 1-hr TSP Monitoring Results

Monitoring Station : AA1
Location : Outside CEDD Site Office

Date	Time			Elapse Time		Sampling Time (hrs)	Flow Rate (m ³ /min.)		Average (m ³ /min.)	Filter Weight (g)		Conc. (µg/m ³)
	Start	Finish	Time	Initial	Final		Initial	Final		Initial	Final	
04/08/06	08:30	09:30	9217.88	9218.88	1.00	1.21	1.21	1.21	1.21	2.8439	2.8602	225
	11:00	12:00	9218.88	9219.88	1.00	1.21	1.21	1.21	1.21	2.8672	2.8896	309
	13:00	14:00	9219.88	9220.88	1.00	1.21	1.21	1.21	1.21	2.8515	2.8726	291
10/08/06	08:30	09:30	9244.89	9245.89	1.00	1.02	1.02	1.02	1.02	2.8587	2.8678	149
	11:00	12:00	9245.89	9246.89	1.00	1.02	1.02	1.02	1.02	2.8693	2.8848	253
	13:00	14:00	9246.89	9247.89	1.00	1.02	1.02	1.02	1.02	2.8547	2.8661	186
16/08/06	08:30	09:30	9271.90	9272.90	1.00	0.99	0.99	0.99	0.99	2.8456	2.8584	215
	11:00	12:00	9272.90	9273.90	1.00	0.99	0.99	0.99	0.99	2.8397	2.8567	286
	13:00	14:00	9273.90	9274.90	1.00	0.99	0.99	0.99	0.99	2.8600	2.8754	259
22/08/06	08:30	09:30	9298.90	9299.90	1.00	1.02	1.02	1.02	1.02	2.8967	2.9081	186
	11:00	12:00	9299.90	9300.90	1.00	1.02	1.02	1.02	1.02	2.8817	2.8984	273
	14:00	15:00	9300.90	9301.90	1.00	1.02	1.02	1.02	1.02	2.8843	2.9023	294
28/08/06	08:30	09:30	9326.17	9327.17	1.00	1.02	1.02	1.02	1.02	2.8617	2.8765	242
	11:00	12:00	9327.17	9328.17	1.00	1.02	1.02	1.02	1.02	2.8395	2.8586	312
	13:00	14:00	9328.18	9329.17	1.00	1.02	1.02	1.02	1.02	2.8424	2.8592	275

Monitoring Station : AA2
Location : Site Egress

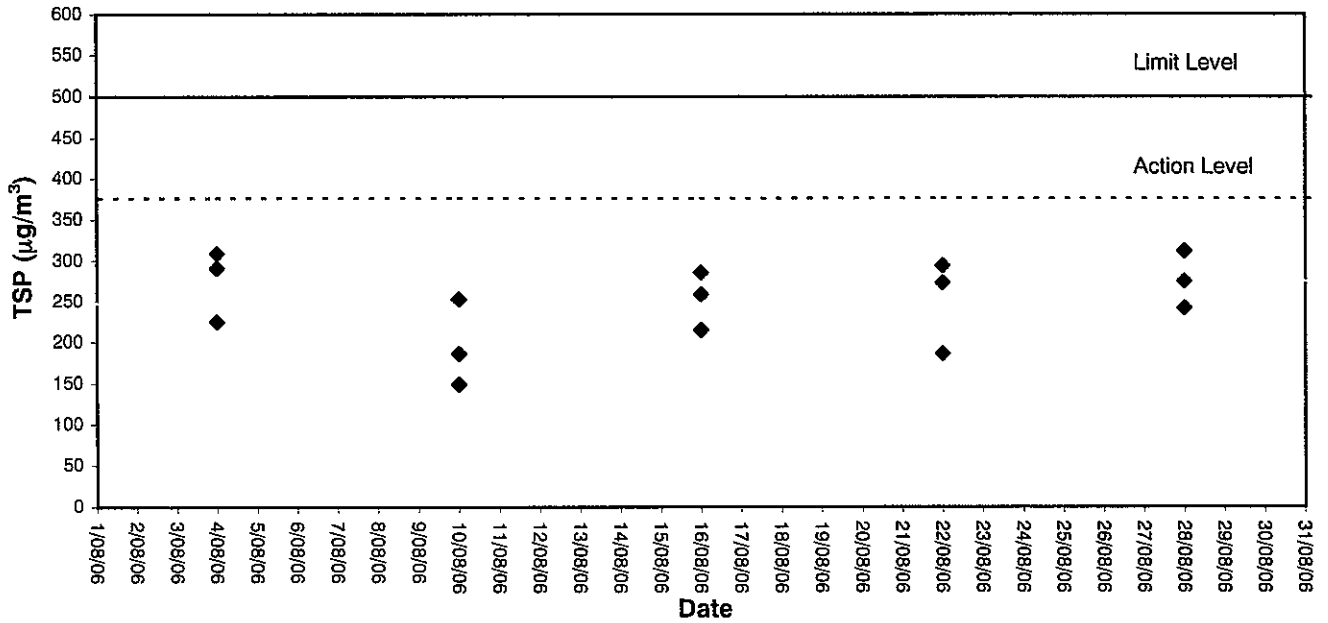
Date	Time			Elapse Time		Sampling Time (hrs)	Flow Rate (m ³ /min.)		Average (m ³ /min.)	Filter Weight (g)		Conc. (µg/m ³)
	Start	Finish	Time	Initial	Final		Initial	Final		Initial	Final	
04/08/06	08:30	09:30	12511.42	12512.42	1.00	1.67	1.67	1.67	1.67	2.8693	2.8935	242
	11:00	12:00	12512.42	12513.42	1.00	1.67	1.67	1.67	1.67	2.8721	2.9035	313
	13:00	14:00	12513.42	12514.42	1.00	1.67	1.67	1.67	1.67	2.8749	2.9038	288
10/08/06	08:30	09:30	12538.42	12539.42	1.00	1.12	1.12	1.12	1.12	2.8729	2.8855	187
	11:00	12:00	12539.42	12540.42	1.00	1.12	1.12	1.12	1.12	2.8814	2.8991	263
	13:00	14:00	12540.42	12541.42	1.00	1.12	1.12	1.12	1.12	2.8625	2.8773	220
16/08/06	08:30	09:30	12565.42	12566.42	1.00	1.12	1.12	1.12	1.12	2.8543	2.8686	213
	11:00	12:00	12566.42	12567.42	1.00	1.12	1.12	1.12	1.12	2.8622	2.8825	302
	13:00	14:00	12567.42	12568.42	1.00	1.12	1.12	1.12	1.12	2.8718	2.8903	275
22/08/06	08:30	09:30	12592.43	12593.43	1.00	1.12	1.12	1.12	1.12	2.8572	2.8737	246
	11:00	12:00	12593.43	12594.43	1.00	1.12	1.12	1.12	1.12	2.8498	2.8713	320
	14:00	15:00	12594.43	12595.43	1.00	1.12	1.12	1.12	1.12	2.8613	2.8806	287
28/08/06	08:30	09:30	12619.88	12620.88	1.00	1.16	1.16	1.16	1.16	2.8672	2.8892	290
	11:00	12:00	12620.88	12621.88	1.00	1.16	1.16	1.16	1.16	2.8593	2.8826	335
	13:00	14:00	12621.88	12622.88	1.00	1.16	1.16	1.16	1.16	2.8311	2.8524	306



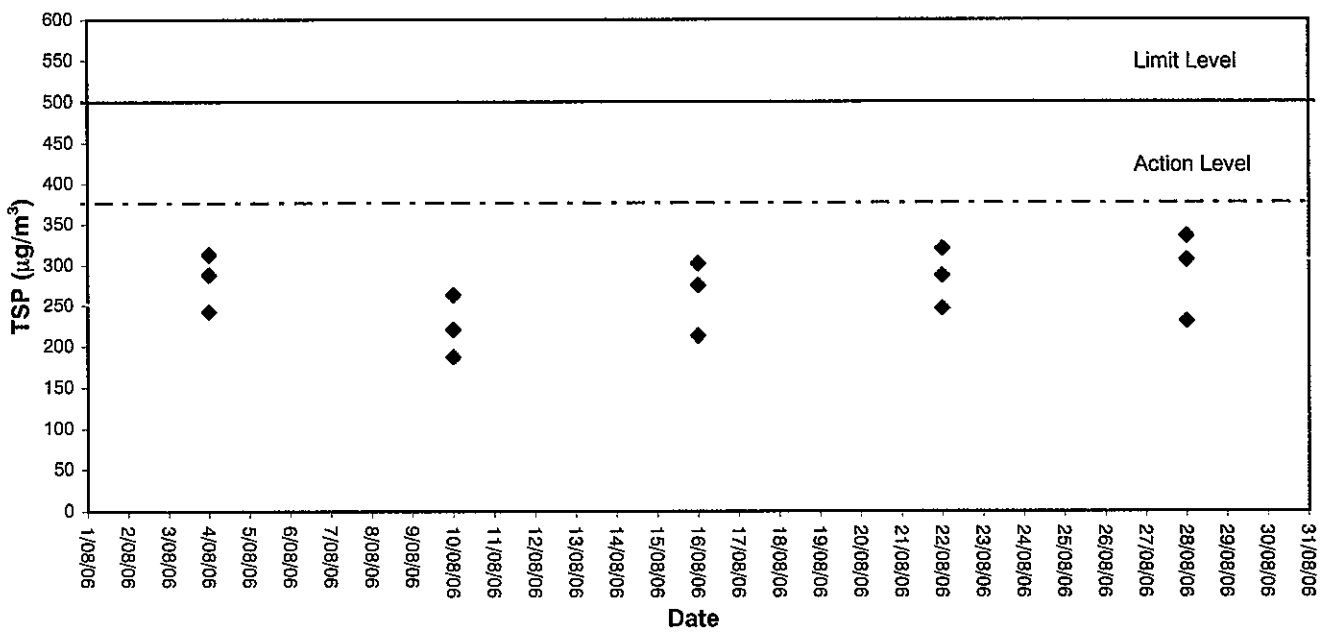
Appendix B3

Graphical Plots of Air Quality Monitoring Data

1-hour TSP level at AA1 (Outside CEDD Site Office)

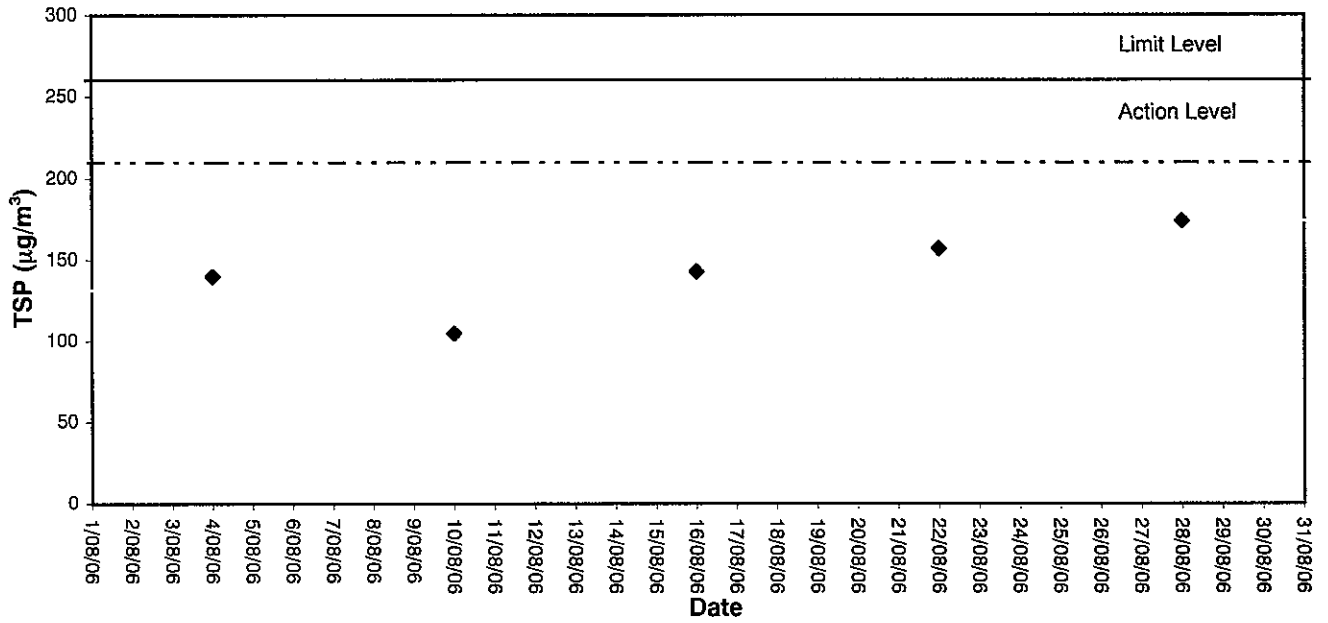


1-hour TSP level at AA2 (Site Egress)

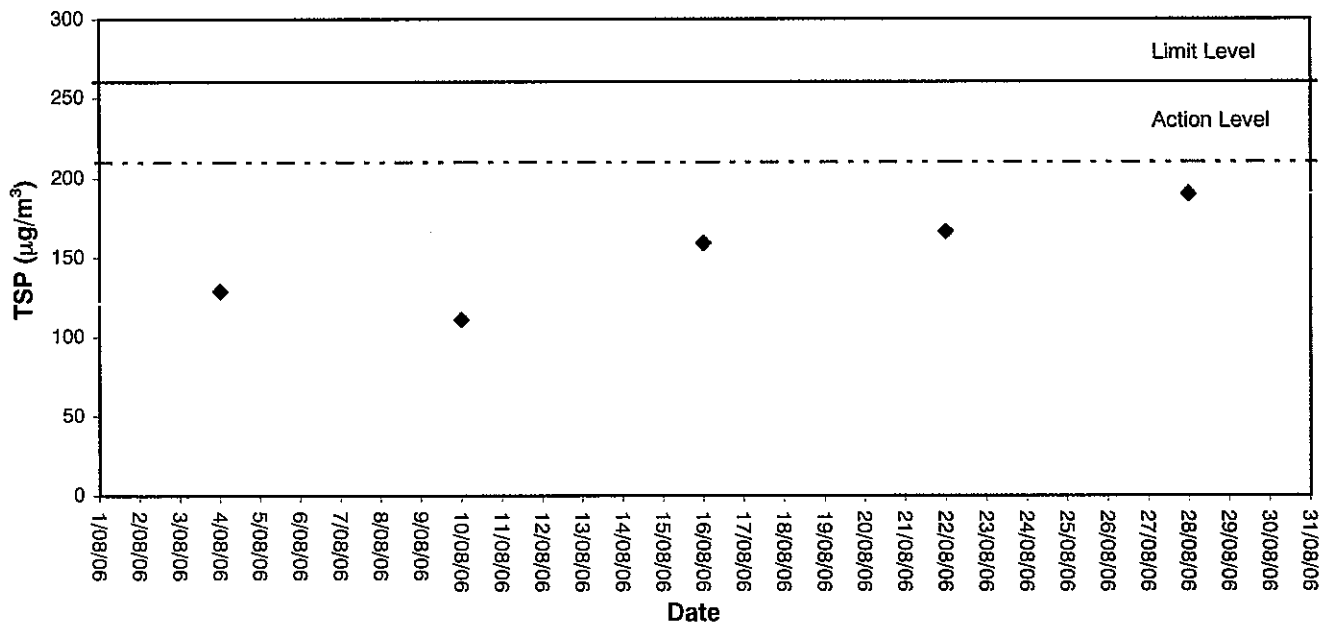




24-hour TSP level at AA1 (Outside CEDD Site Office)



24-hour TSP level at AA2 (Site Egress)





Appendix C1

Calibration Certificates for Noise Monitoring Equipments



Calibration Certificate

Certificate No. **61398**

Page 1 of 3 Pages

Customer : ETS-Testconsult Limited

Address : 8/F., Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan St., Fotan, Hong Kong.

Order No. : Q60555

Date of receipt : 29-Mar-06

Item Tested

Description : Precision Integrating Sound Level Meter

Manufacturer : Rion

Model : NL-31

Serial No. : 00110024

Test Conditions

Date of Test : 4-Apr-06

Supply Voltage : --

Ambient Temperature : (23 ± 3)°C

Relative Humidity : (50 ± 25) %

Test Specifications

Calibration check.

Calibration procedure : Z01.

Test Results

All results were within the IEC 651 Type 1 and IEC 804 Type 1 specification.

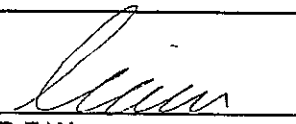
The results are shown in the attached page(s).

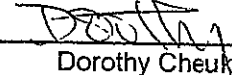
Test equipment used:

<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Due Date</u>	<u>Traceable to</u>
S017	Function Generator	C051022	21-Mar-07	HKGSCS
S024	Calibrator	S41431	22-May-06	PRC-NIM

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI).
The test results apply to the above Unit-Under-Test only

Calibrated by : 
P.F. Wong

Approved by : 
Dorothy Cheuk

Date: 4-Apr-06



Calibration Certificate

Certificate No. 61398

Page 2 of 3 Pages

Results :

1. SPL Accuracy

UUT Setting			Applied Value (dB)	UUT Reading (dB)
Level Range (dB)	Weight	Response		
20 - 100	L _A	Fast	94.0	93.8
		Slow		93.8
	L _C	Fast		93.8
		L _p		Fast
30 - 120	L _A	Fast	94.0	93.8
		Slow		93.7
	L _C	Fast		93.8
	L _p	Fast		93.8
30 - 120	L _A	Fast	113.9	113.8
		Slow		113.7
	L _C	Fast		113.8
	L _p	Fast		113.8

IEC 651 Type 1 Spec. : ± 0.7 dB

Uncertainty : ± 0.2 dB

2. Level Stability : 0.0 dB

IEC 651 Type 1 Spec. : ± 0.3 dB

Uncertainty : ± 0.01 dB



Calibration Certificate

Certificate No. 61398

Page 3 of 3 Pages

3. Frequency Weighting

A weighting

Frequency	Attenuation (dB)	IEC 651 Type 1 Spec.
31.5 Hz	- 39.5	- 39.4 dB, ± 1.5 dB
63 Hz	- 26.2	- 26.2 dB, ± 1.5 dB
125 Hz	- 16.2	- 16.1 dB, ± 1 dB
250 Hz	- 8.8	- 8.6 dB, ± 1 dB
500 Hz	- 3.3	- 3.2 dB, ± 1 dB
1 kHz	0.0 (Ref.)	0 dB, ± 1 dB
2 kHz	+ 1.2	+ 1.2 dB, ± 1 dB
4 kHz	+ 1.1	+ 1.0 dB, ± 1 dB
8 kHz	- 1.2	- 1.1 dB, + 1.5 dB ~ - 3 dB
16 kHz	- 6.7	- 6.6 dB, + 3 dB ~ ∞

Uncertainty : ± 0.1 dB

4. Time Averaging

Applied Burst duty Factor	Applied Leq Value (dB)	UUT Reading (dB)	IEC 804 Type 1 Spec.
continuous	40.0	40.0	--
1/10	40.0	39.8	± 0.5 dB
1/10 ²	40.0	40.0	
1/10 ³	40.0	40.0	± 1.0 dB
1/10 ⁴	40.0	40.0	

Uncertainty : ± 0.1 dB

Remark : 1. UUT : Unit-Under-Test

2. The uncertainty claimed is for a confidence probability of not less than 95%.

3. Atmospheric Pressure : 1 000 hPa.

----- END -----



Calibration Certificate

Certificate No. **61399**

Page 1 of 2 Pages

Customer : ETS-Testconsult Limited

Address : 8/F., Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan St., Fotan, Hong Kong.

Order No. : Q60555

Date of receipt : 29-Mar-06

Item Tested

Description : Sound Level Calibrator

Manufacturer : Rion

Model : NC-73

Serial No. : 10644871

Test Conditions

Date of Test : 4-Apr-06

Supply Voltage : -

Ambient Temperature : (23 ± 3)°C

Relative Humidity : (50 ± 25) %

Test Specifications

Calibration check.

Calibration procedure : F21, Z02.

Test Results

All results were within the manufacturer's specification.

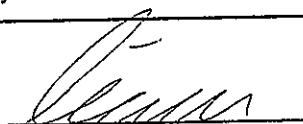
The results are shown in the attached page(s).

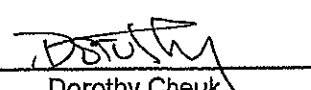
Test equipment used:

<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Due Date</u>	<u>Traceable to</u>
S014	Spectrum Analyzer	53024	7-Jul-06	PRC-NIM
S024	Calibrator	S41431	22-May-06	PRC-NIM
S041	Universal Counter	53972	26-Aug-06	HKGSCCL

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI).
The test results apply to the above Unit-Under-Test only

Calibrated by : 
P.F. Wong

Approved by : 
Dorothy Cheuk

Date: 4-Apr-06

This Certificate is issued by:
Hong Kong Calibration Ltd.
Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong.
Tel: 2425 8801 Fax: 2425 8646

The copyright of this certificate is owned by Hong Kong Calibration Ltd.. It may not be reproduced except in full.



Calibration Certificate

Certificate No. 61399

Page 2 of 2 Pages

Results :

1. Level Accuracy (at 1 kHz)

UUT Nominal Value	Measured Value		Mfr's Spec.
	Before Adjust.	After Adjust.	
94 dB	94.7	94.2	± 1 dB

Uncertainty : ± 0.2 dB

2. Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's Spec.
1 kHz	0.984 kHz	± 2 %

Uncertainty : ± 0.1 %

3. Level Stability : 0.0 dB

Uncertainty : ± 0.01 dB

4. Total Harmonic Distortion : < 0.3 %

Mfr's Spec. : < 3 %

Uncertainty : ± 2.3 % of reading

Remark : 1. UUT : Unit-Under-Test

2. The uncertainty claimed is for a confidence probability of not less than 95%.

3. The above measured values are the mean of 3 measurement.

4. Atmospheric Pressure : 1 000 hPa

----- END -----



Appendix C2

Noise Monitoring Results

Day-time Noise Monitoring

Monitoring Location: N1 (Site Egress)

Date	Start Sampling Time (hh:mm)	Noise Level dB (A)			Wind Speed (m/s)	Weather Condition
		L _{eq(30min)}	L ₁₀	L ₉₀		
04/08/06	09:49	69.0	73.0	59.5	0.9	Cloudy

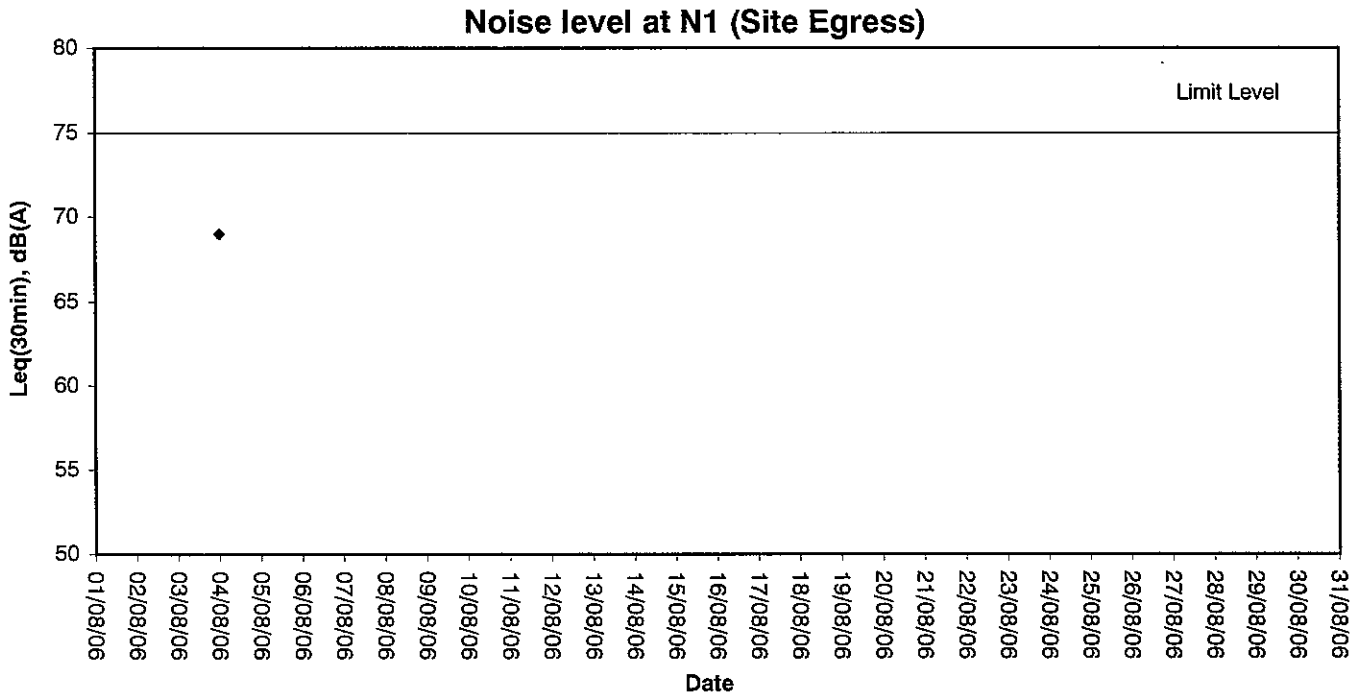


Appendix C3

Graphical Plots of Noise Monitoring Data



Noise Monitoring (Day-time)





Appendix D1

Calibration Certificates for Marine Water Quality Monitoring Equipments



Internal Calibration Report of Turbidimeter

Equipment Ref. No. : ET/0505/02

Manufacturer : HACH

Model No. : 2100P

Serial No. : 930900 003728

Date of Calibration : 28/7/06

Calibration Due : 28/10/06

Data

(4.95) 0 - 10 NTU Gelex Vial	(49.0) 10 - 100 NTU Gelex Vial	(409) 100 - 1000 NTU Gelex Vial
4.92	48.2	405

The equipment complies * / ~~does not comply~~ * with the specified requirements and is deemed acceptable * / ~~unacceptable~~ * for use.

* Delete as appropriate

Calibrated by : pk

Approved by : Golda Law



Performance Check of Salinity Meter

Equipment Ref. No. : ET/0527/001 Manufacturer : YSI
Model No. : Model 30 Serial No. : 9961183
Date of Calibration : 28/7/06 Due Date : 28/10/06

Ref. No. of Salinity Standard used (30ppt)



I196A

Salinity Standard (ppt)	Measured Salinity (ppt)	Difference %
30	29.5	1.7%

Acceptance Criteria

Difference : <10 %

The salinity meter complies * / ~~does not comply~~ * with the specified requirements and is deemed acceptable * / ~~unacceptable~~ * for use. Measurements are traceable to national standards.

Checked by :  Approved by : 



Internal Calibration Report of Dissolved Oxygen Meter

Equipment Ref. No. : ET/EW/003/001 Manufacturer : YSI
 Model No. : 95 Serial No. : 9714 04071AD
 Date of Calibration : 30/5/6 Calibration Due Date : 29/8/6

Ref. No. of Reference Thermometer : ET/2403/01
 Ref. No. of Potassium Dichromate : ET/0520/003/02

Temperature Verification

	Temperature (°C)
Thermometer reading	20.0
Meter reading	20.0

Linearity Checking

Purging time, min	DO meter reading, mg/L			Winkler Titration result, mg/L			Difference (%) of DO Content
	1	2	Average	1	2	Average	
2	7.45	7.43	7.44	7.50	7.52	7.51	0.94
5	5.51	5.49	5.50	5.63	5.61	5.62	2.16
10	3.68	3.66	3.67	3.56	3.54	3.55	3.32
Linear regression coefficient				0.9981			

Zero Point Checking

DO meter reading, mg/L	0.00
------------------------	------

Salinity Checking

Salinity (ppt)	DO meter reading, mg/L			Winkler Titration result, mg/L			Difference (%) of DO Content
	1	2	Average	1	2	Average	
10	7.11	7.09	7.10	7.20	7.18	7.19	1.26
30	6.53	6.51	6.52	6.66	6.64	6.65	1.97

Acceptance Criteria

- (1) Difference between temperature readings from temperature sensor of DO probe and reference thermometer : < 0.5 °C
- (2) Linear regression coefficient : > 0.99
- (3) Zero checking: 0.0mg/L
- (4) Difference (%) of DO content from the meter reading and by winkler titration : within ± 5%

The equipment complies * / ~~does not comply~~ * with the specified requirements and is deemed acceptable * / ~~unacceptable~~ * for use.

* Delete as appropriate

Calibrated by : Cade Lam Approved by :



Appendix D2

Impact Marine Water Quality Monitoring Results

Mid-Flood Tide



東業 標動測 試 類 問 有 限 公 司
ETS-TESTCONSULT LIMITED

Monitoring Station : C1

Date	Sampling Duration	Ambient Temp (°C) / Weather Condition	Monitoring Depth (m)	Temp (°C)	Salinity (ppt)		Dissolved Oxygen (mg/L)			Dissolved Oxygen Saturation (%)			Turbidity (NTU)			Suspended Solids (mg/L)		
					Value	Average	Value	Average	Depth-average	Value	Average	Depth-average	Value	Average	Depth-average	Value	Average	Depth-average
02/08/06	11:16-11:30	30/Cloudy	Surface	27.1	30.9	30.9	6.60	6.65	6.50	99.8	100.3	3.27	3.24	3.5	3.5	3.7		
					30.9	30.9	6.70	6.35	100.8	3.20	3.5	3.5						
					31.7	31.7	6.39	95.5	3.06	3.03	3.5	3.5						
04/08/06	17:30-17:45	28/Rainy	Bottom	26.0	31.4	31.4	6.16	6.21	6.21	92.7	93.2	3.40	3.35	4.0	4.0	3.8		
					31.4	31.4	6.26	6.61	93.7	3.30	4.0	4.0						
					28.4	28.4	6.62	94.4	4.15	4.16	4.5	4.5						
07/08/06	18:16-18:30	32/Sunny	Middle	27.0	30.9	30.9	6.07	6.09	6.35	86.8	87.1	3.88	3.88	3.5	3.5	3.4		
					30.8	30.8	6.11	6.67	101.2	3.87	3.5	3.5						
					31.6	31.6	5.59	5.57	102.2	3.97	3.2	3.2						
09/08/06	17:30-17:45	32/Sunny	Bottom	27.8	31.6	31.6	5.55	6.06	6.06	79.3	79.6	3.95	3.96	3.5	3.5	3.7		
					32.0	32.0	6.01	6.32	92.0	3.00	3.2	3.2						
					32.4	32.4	6.11	5.63	93.0	3.06	4.0	4.0						
11/08/06	07:00-07:15	28/Cloudy	Surface	28.1	29.5	29.5	6.30	6.42	6.19	31.9	32.2	3.74	3.74	2.5	2.5	2.7		
					29.5	29.5	6.33	5.95	98.3	2.05	2.3	2.3						
					31.8	31.8	5.61	5.57	91.7	1.90	2.2	2.2						
14/08/06	08:30-08:45	32/Cloudy	Middle	28.2	31.8	31.8	5.64	6.34	5.93	82.3	82.1	3.31	3.32	3.2	3.2	3.5		
					31.8	31.8	5.39	5.52	80.7	3.15	3.2	3.2						
					32.4	32.4	5.35	5.80	80.5	3.17	3.2	3.2						
16/08/06	12:15-12:30	32/Sunny	Bottom	28.2	32.3	32.3	6.37	6.35	6.07	78.6	78.4	3.15	3.16	2.5	2.5	3.1		
					29.9	29.9	6.47	5.52	92.2	2.15	2.5	2.5						
					30.0	30.0	6.00	5.57	92.7	2.00	3.0	3.0						
16/08/06	12:15-12:30	32/Sunny	Surface	29.2	31.0	31.0	5.62	6.35	5.14	85.1	84.6	3.00	2.95	4.0	4.0	3.8		
					31.0	31.0	5.52	5.80	74.8	2.88	2.5	2.5						
					30.2	30.2	6.32	5.60	74.8	2.88	3.0	3.0						
16/08/06	12:15-12:30	32/Sunny	Middle	28.3	32.1	32.1	6.35	6.35	5.60	92.2	92.5	3.62	3.61	2.5	2.5	3.8		
					32.1	32.1	5.53	5.80	88.4	2.35	2.5	2.5						
					32.1	32.1	5.50	5.55	87.4	2.25	3.0	3.0						
16/08/06	12:15-12:30	32/Sunny	Bottom	28.2	32.4	32.4	5.12	6.35	5.60	80.6	80.6	3.12	3.13	3.0	3.0	3.8		
					32.4	32.4	5.16	5.55	74.8	2.88	3.0	3.0						
					30.5	30.5	6.39	5.60	74.8	2.88	3.8	3.8						

Mid-Flood Tide



東業 德 勘 測 試 驗 有 限 公 司
ETS-TESTCONSULT LIMITED

Monitoring Station : C1

Date	Sampling Duration	Ambient Temp (°C) / Weather Condition	Monitoring Depth (m)	Temp (°C)	Salinity (ppt)		Dissolved Oxygen (mg/L)			Dissolved Oxygen Saturation (%)			Turbidity (NTU)			Suspended Solids (mg/L)		
					Value	Average	Value	Average	Depth-average	Value	Average	Value	Average	Depth-average	Value	Average	Depth-average	
18/08/06	18:35-18:48	31/Sunny	Surface	27.3	29.1	29.1	6.32	6.30	6.17	88.4	88.1	3.26	3.29	3.5	3.5			
					29.1	6.28	6.17	87.8	3.31	3.5								
					30.9	6.07	6.05	84.9	3.02	3.2								
	Middle		26.7	30.9	6.02	6.05	84.2	2.97	3.00	3.2								
				31.4	5.42	5.39	75.8	3.12	3.2									
				31.3	5.35	5.39	74.8	3.16	3.2									
21/08/06	16:59-17:14	34/Cloudy	Surface	29.0	30.1	30.1	6.67	6.64	6.43	101.1	100.6	4.11	4.06	4.5	4.4			
					30.1	6.60	6.43	100.1	4.01	4.3								
					30.7	6.17	6.22	93.3	3.92	3.5								
	Middle		28.3	30.7	6.27	6.22	94.3	3.82	3.87	3.5								
				31.1	6.36	6.33	96.7	3.66	4.0									
				31.1	6.30	6.33	96.0	3.60	4.0									
Bottom	27.2	30.0	6.39	6.44	98.1	3.77	3.74	3.5										
		30.0	6.49	6.44	99.1	3.70	3.5											
		30.1	6.07	6.04	92.5	3.69	3.8											
23/08/06	18:16-18:30	33/Sunny	Surface	29.4	31.8	31.8	5.99	5.95	5.95	90.1	89.6	3.92	3.87	4.0	4.0			
					31.8	5.90	5.95	89.1	3.82	4.0								
					27.0	6.62	6.64	95.3	3.67	3.5								
	Middle		28.5	27.0	6.65	6.64	95.7	3.69	3.68	3.2								
				30.1	6.39	6.38	92.0	3.98	3.5									
				30.1	6.36	6.38	91.5	3.97	3.5									
Bottom	27.9	30.5	5.89	5.87	84.8	3.77	3.76	3.8										
		31.8	5.85	5.87	84.3	3.75	3.8											
		27.0	6.85	6.83	100.0	4.15	4.5											
25/08/06	17:30-17:45	29/Rainy	Surface	27.6	27.8	27.8	6.81	6.83	6.51	99.4	99.7	4.17	4.16	4.5	4.5			
					27.8	6.81	6.83	99.4	4.17	4.5								
					30.1	6.39	6.38	92.0	3.98	3.5								
	Middle		27.3	30.1	6.36	6.38	91.5	3.97	3.98	3.5								
				30.5	5.89	5.87	84.8	3.77	3.8									
				30.6	5.85	5.87	84.3	3.75	3.8									
Bottom	27.0	27.0	6.65	6.64	95.7	3.69	3.68	3.2										
		30.1	6.39	6.38	92.0	3.98	3.5											
		30.1	6.36	6.38	91.5	3.97	3.5											
28/08/06	07:30-07:45	29/Cloudy	Surface	27.6	30.4	30.4	6.21	6.20	6.51	90.6	90.4	3.96	3.96	4.0	4.0			
					30.4	6.18	6.20	90.2	3.95	3.5								
					31.3	5.52	5.51	80.0	3.87	4.0								
	Middle		27.2	31.2	5.49	5.51	79.6	3.89	3.88	4.0								
				31.3	7.21	7.16	109.2	3.11	3.4									
				31.0	7.11	7.16	108.2	3.01	3.3									
Bottom	26.8	31.4	6.52	6.47	99.0	3.00	2.95	3.5										
		31.4	6.42	6.47	98.0	2.90	3.5											
		31.9	6.39	6.34	96.4	3.49	3.3											
30/08/06	10:00-10:13	30/Sunny	Surface	29.9	31.9	31.9	6.29	6.34	6.34	95.4	95.9	3.40	3.45	3.2	3.3			
					31.9	6.29	6.34	95.4	3.40	3.3								
					31.0	7.11	7.16	108.2	3.01	3.3								
	Middle		28.4	31.4	6.52	6.47	99.0	3.00	2.95	3.5								
				31.4	6.42	6.47	98.0	2.90	3.5									
				31.9	6.39	6.34	96.4	3.49	3.3									
Bottom	27.3	31.9	6.29	6.34	95.4	3.40	3.45	3.2										
		31.9	6.29	6.34	95.4	3.40	3.3											
		31.0	7.11	7.16	108.2	3.01	3.3											

Mid-Flood Tide



東業德勤測試顧問有限公司
ETS-TESTCONSULT LIMITED

Monitoring Station : M4

Date	Sampling Duration	Ambient Temp (°C) / Weather Condition	Monitoring Depth (m)	Temp (°C)	Salinity (ppt)		Dissolved Oxygen (mg/L)			Dissolved Oxygen Saturation (%)			Turbidity (NTU)			Suspended Solids (mg/L)		
					Value	Average	Value	Average	Depth-average	Value	Average	Depth-average	Value	Average	Depth-average	Value	Average	Depth-average
02/08/06	12:00-12:15	30/Cloudy	Surface	26.9	31.7	6.80	6.75	102.8	102.4	3.09	3.14	3.2	3.3	3.4				
			Middle	26.7	31.9	6.52	6.47	98.0	97.5	3.20	3.15	3.5	3.5					
			Bottom	26.4	32.1	6.25	6.30	95.3	95.8	3.33	3.28	3.3	3.4					
04/08/06	18:15-18:30	28/Rainy	Surface	27.3	28.5	6.78	6.77	96.9	96.7	3.86	3.86	3.2	3.2	3.4				
			Middle	27.0	31.0	6.34	6.32	90.6	90.3	3.53	3.53	3.5	3.5					
			Bottom	26.9	31.6	5.95	5.93	84.4	84.2	3.29	3.30	3.5	3.5					
07/08/06	17:30-17:44	32/Sunny	Surface	27.1	31.7	6.61	6.56	99.9	99.5	2.81	2.76	2.5	2.5	3.0				
			Middle	26.8	32.1	6.42	6.47	96.5	97.0	2.69	2.65	3.0	3.0					
			Bottom	26.4	32.4	6.26	6.23	94.7	94.4	2.88	2.84	3.5	3.5					
09/08/06	18:15-18:30	32/Sunny	Surface	28.8	29.5	6.41	6.40	93.5	93.3	3.54	3.53	3.2	3.2	3.4				
			Middle	28.4	31.8	5.78	5.77	83.9	84.1	3.10	3.11	3.5	3.5					
			Bottom	28.0	32.4	5.84	5.82	85.2	84.9	2.97	2.97	3.2	3.4					
11/08/06	07:45-07:59	28/Cloudy	Surface	28.2	28.0	6.62	6.57	100.1	99.6	2.27	2.24	2.5	2.5	2.4				
			Middle	28.1	28.9	6.82	6.77	103.7	103.4	2.61	2.56	2.3	2.3					
			Bottom	28.2	30.1	6.40	6.36	97.8	97.4	3.17	3.14	2.5	2.5					
14/08/06	09:15-09:30	32/Cloudy	Surface	28.7	30.6	6.49	6.48	94.7	94.5	2.99	2.98	3.2	3.2	2.9				
			Middle	28.4	32.1	5.78	5.77	84.3	84.1	2.76	2.77	2.5	2.5					
			Bottom	27.8	32.4	5.29	5.31	77.2	77.5	2.53	2.54	3.0	3.0					
16/08/06	11:30-11:43	32/Sunny	Surface	29.9	29.0	6.52	6.48	100.9	100.5	2.52	2.47	3.0	3.0	2.8				
			Middle	28.9	29.4	6.85	6.80	106.2	105.7	2.53	2.48	2.5	2.5					
			Bottom	29.0	29.5	7.05	7.10	108.0	107.5	2.71	2.67	2.7	2.9					

Mid-Flood Tide

Monitoring Station : M4

Date	Sampling Duration	Ambient Temp (°C) / Weather Condition	Monitoring Depth (m)	Temp (°C)	Salinity (ppt)		Dissolved Oxygen (mg/L)			Dissolved Oxygen Saturation (%)			Turbidity (NTU)			Suspended Solids (mg/L)		Depth-average
					Value	Average	Value	Average	Depth-average	Value	Average	Value	Average	Value	Average	Depth-average	Value	
18/08/06	11:12-19:26	31/Sunny	Surface	1.0	27.4	29.0	29.0	6.49	6.46	6.33	90.8	90.3	2.86	2.88	3.0	3.0	3.0	
						29.0	6.42	89.8	2.90	3.0								
			Middle	4.6	26.7	30.2	30.2	6.25	6.21	86.2	86.8	2.61	2.58	2.7	2.7	2.7		
						30.1	6.16	87.4	2.54	3.0								
			Bottom	8.2	26.4	31.0	31.0	5.84	5.81	81.7	81.2	2.90	2.92	3.2	3.2	3.2		
						31.0	5.77	80.7	2.94	3.0								
21/08/06	16:15-16:30	34/Cloudy	Surface	1.0	29.1	29.6	29.6	6.82	6.77	6.52	103.4	102.9	3.27	3.26	3.5	3.5	3.4	
						29.6	6.72	102.4	3.25	3.0								
			Middle	4.0	28.6	30.1	30.1	6.31	6.26	96.1	95.6	3.89	3.85	3.5	3.5	3.5		
						30.1	6.21	95.1	3.80	3.0								
			Bottom	7.0	28.3	31.0	31.0	6.40	6.35	96.9	96.5	3.06	3.11	3.2	3.2	3.2		
						31.0	6.30	96.0	3.16	3.0								
23/08/06	17:30-17:46	33/Sunny	Surface	1.0	29.2	30.1	30.1	6.44	6.49	6.37	98.6	99.1	2.79	2.75	3.5	3.5	3.2	
						30.1	6.54	99.6	2.70	3.0								
			Middle	4.1	28.7	30.2	30.2	6.30	6.25	96.1	95.6	2.99	2.95	3.2	3.2	3.2		
						30.2	6.20	95.1	2.90	3.0								
			Bottom	7.2	28.5	30.6	30.6	5.93	5.88	89.8	89.4	3.71	3.76	3.0	3.0	3.0		
						30.6	5.83	89.0	3.81	3.0								
25/08/06	18:15-18:30	29/Rainy	Surface	1.0	27.6	27.0	27.0	6.87	6.86	6.54	98.9	98.8	3.43	3.44	3.3	3.3	3.3	
						27.0	6.85	98.6	3.45	3.0								
			Middle	4.8	27.4	30.1	30.1	6.23	6.22	89.0	88.8	3.52	3.52	3.2	3.2	3.2		
						30.1	6.20	88.6	3.51	3.0								
			Bottom	8.6	27.2	30.5	30.5	6.06	6.05	86.6	86.4	3.01	3.02	3.5	3.5	3.5		
						30.5	6.03	86.2	3.03	3.0								
28/08/06	08:15-08:30	29/Cloudy	Surface	1.0	27.7	28.0	28.0	6.94	6.92	6.64	101.3	101.0	3.62	3.62	3.5	3.5	3.9	
						28.0	6.90	100.7	3.61	3.0								
			Middle	4.9	27.4	30.6	30.6	6.37	6.36	93.0	92.8	3.43	3.44	3.8	3.8	3.8		
						30.6	6.34	92.5	3.45	3.0								
			Bottom	8.8	27.6	31.0	31.0	5.79	5.77	84.5	84.2	3.57	3.57	4.2	4.3	4.3		
						31.0	5.75	83.9	3.56	3.0								
30/08/06	09:15-09:30	30/Sunny	Surface	1.0	29.8	31.1	31.1	7.07	7.04	6.74	106.8	106.4	3.00	2.96	3.0	3.0	3.1	
						31.1	7.00	106.0	2.92	3.0								
			Middle	3.7	29.2	31.4	31.4	6.50	6.45	98.9	98.5	2.77	2.74	3.0	3.0	3.0		
						31.4	6.40	98.0	2.70	3.0								
			Bottom	6.4	28.9	31.2	31.2	6.62	6.57	101.0	100.5	2.91	2.96	3.2	3.2	3.2		
						31.2	6.52	100.0	3.01	3.0								

Mid-Ebb Tide

Monitoring Station : C1

Date	Sampling Duration	Ambient Temp (°C) / Weather Condition	Monitoring Depth (m)	Temp (°C)	Salinity (ppt)		Dissolved Oxygen (mg/L)			Dissolved Oxygen Saturation (%)			Turbidity (NTU)			Suspended Solids (mg/L)		
					Value	Average	Value	Average	Depth-average	Value	Average	Value	Average	Depth-average	Value	Average	Value	Average
04/08/06	07:30-07:45	28/Rainy	Surface	26.8	28.0	6.30	6.32	90.0	90.3	3.72	3.73	4.0	4.0	3.8	3.8	3.8		
			Middle	26.4	30.8	5.98	5.97	85.5	85.3	3.53	3.54	3.8	3.8					
			Bottom	26.3	31.4	5.23	5.25	74.2	74.5	3.46	3.45	3.5	3.5					
07/08/06	10:06-10:20	32/Sunny	Surface	26.9	30.6	6.55	6.50	99.7	99.4	2.51	2.46	3.2	3.3	3.3	3.3	3.3		
			Middle	27.0	31.1	6.77	6.74	103.0	102.5	2.77	2.74	3.0	3.0					
			Bottom	25.8	31.7	6.22	6.17	94.7	94.4	2.96	2.93	3.5	3.5					
09/08/06	11:00-11:15	32/Sunny	Surface	28.4	29.4	6.57	6.56	95.9	95.7	4.18	4.19	4.5	4.5	4.2	4.2	4.2		
			Middle	27.9	31.6	5.80	5.82	84.6	84.9	3.89	3.88	4.0	4.0					
			Bottom	27.3	32.0	5.20	5.22	75.9	76.2	3.65	3.66	4.0	4.0					
11/08/06	13:32-13:45	28/Cloudy	Surface	28.3	29.5	6.20	6.15	94.0	93.5	2.07	2.04	3.2	3.2	3.0	3.0	3.0		
			Middle	27.6	29.4	5.84	5.79	87.7	87.4	1.93	1.88	2.2	2.3					
			Bottom	27.5	30.5	5.44	5.39	82.1	82.1	3.46	3.43	3.5	3.5					
14/08/06	14:45-15:00	32/Cloudy	Surface	28.8	30.7	6.56	6.55	95.7	95.5	3.29	3.30	3.5	3.5	3.3	3.3	3.3		
			Middle	28.5	32.2	6.07	6.06	88.6	88.4	3.12	3.12	3.2	3.2					
			Bottom	27.9	32.4	5.59	5.57	81.6	81.4	3.05	3.06	3.2	3.2					
16/08/06	17:25-17:40	32/Sunny	Surface	29.6	29.0	6.47	6.44	90.5	90.0	2.58	2.54	2.5	2.5	3.1	3.1	3.1		
			Middle	28.4	29.6	5.99	5.95	82.8	82.4	3.10	3.05	3.3	3.3					
			Bottom	28.0	31.0	5.71	5.66	72.7	72.4	3.76	3.71	3.5	3.5					
18/08/06	08:50-09:14	30/Sunny	Surface	27.0	28.8	6.72	6.69	96.0	95.5	4.65	4.69	4.2	4.3	3.8	3.8	3.8		
			Middle	26.6	30.6	6.25	6.22	89.3	88.9	3.29	3.33	3.5	3.5					
			Bottom	26.3	31.1	5.83	5.79	83.3	82.8	3.08	3.11	3.5	3.5					

Mid-Ebb Tide



英業德測試顧問有限公司
EIS-TESTCONSULT LIMITED

Monitoring Station : C1

Date	Sampling Duration	Ambient Temp (°C) / Weather Condition	Monitoring Depth (m)	Temp (°C)	Salinity (ppt)		Dissolved Oxygen (mg/L)			Dissolved Oxygen Saturation (%)			Turbidity (NTU)			Suspended Solids (mg/L)		
					Value	Average	Value	Average	Depth-average	Value	Average	Value	Average	Depth-average	Value	Average	Depth-average	
21/08/06	10:42-10:54	34/Cloudy	Surface	28.6	30.0	6.79	6.75	103.3	102.8	3.77	3.74	4.0	4.0	3.7				
			Middle	28.1	30.4	6.30	6.25	95.2	94.7	3.50	3.45	3.8	3.8					
			Bottom	27.1	31.0	6.39	6.44	96.8	97.3	3.61	3.56	3.2	3.3					
23/08/06	11:35-11:48	33/Sunny	Surface	29.4	29.1	6.52	6.47	99.4	98.9	3.90	3.85	3.5	3.5	3.8				
			Middle	29.0	30.0	6.22	6.17	94.3	93.8	3.73	3.68	4.0	4.0					
			Bottom	27.8	30.1	6.36	6.33	96.8	96.4	3.92	3.87	4.0	3.8					
25/08/06	12:30-18:45	29/Rainy	Surface	27.6	26.8	6.36	6.35	91.5	91.3	4.07	4.08	3.5	3.4	3.6				
			Middle	27.4	29.8	5.49	5.47	79.0	78.7	3.96	3.97	3.5	3.5					
			Bottom	26.9	30.6	5.21	5.24	74.5	74.8	4.15	4.16	3.8	3.8					
28/08/06	13:45-14:00	29/Cloudy	Surface	28.0	27.9	6.46	6.50	94.3	94.1	3.89	3.89	3.8	3.8	3.8				
			Middle	27.6	30.5	5.95	5.93	86.8	86.5	3.21	3.22	4.0	4.0					
			Bottom	27.0	31.2	5.40	5.43	78.8	79.1	3.63	3.64	3.5	3.5					
30/08/06	16:00-16:13	30/Sunny	Surface	30.1	30.6	6.97	6.94	105.1	104.6	3.31	3.26	3.5	3.5	3.2				
			Middle	29.0	31.1	6.55	6.50	98.0	97.5	3.34	3.32	3.2	3.2					
			Bottom	27.8	30.6	6.07	6.12	93.0	93.5	3.62	3.57	3.0	3.0					

Mid-Ebb Tide

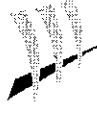


東業德勤測試顧問有限公司
ETS-TESTCONSULT LIMITED

Monitoring Station : M4

Date	Sampling Duration	Ambient Temp (°C) / Weather Condition	Monitoring Depth (m)		Temp (°C)	Salinity (ppt)		Dissolved Oxygen (mg/L)			Dissolved Oxygen Saturation (%)			Turbidity (NTU)			Suspended Solids (mg/L)			
			Surface	Bottom		Value	Average	Depth-average	Value	Average	Value	Average	Depth-average	Value	Average	Depth-average	Value	Average	Depth-average	
04/08/06	08:15-08:30	28/Rainy	Surface	1.0	27.0	28.2	28.2	6.47	6.45	6.25	92.5	95.2	3.21	3.22	3.0	3.0				
			Middle	4.6	26.9	30.8	30.8	6.07	6.05	86.8	86.5	2.88	2.88	3.5	3.5	3.04	3.5	3.3		
			Bottom	8.2	26.7	31.4	31.3	5.88	5.87	84.0	84.8	3.02	3.03	3.02	3.04	3.2	3.3			
07/08/06	09:00-09:15	32/Sunny	Surface	1.0	26.6	31.1	31.1	6.49	6.45	6.60	98.3	97.8	2.66	2.60	2.5	2.5				
			Middle	4.0	26.1	31.4	31.4	6.81	6.76	103.1	102.6	2.92	2.95	2.92	2.98	3.0	3.0	2.84	3.0	2.7
			Bottom	7.0	25.9	31.4	31.4	6.31	6.26	95.7	95.4	3.00	2.95	3.00	2.90	2.7	2.7			
09/08/06	11:45-12:00	32/Sunny	Surface	1.0	28.5	29.5	29.5	6.69	6.67	6.31	97.6	97.4	3.74	3.73	3.5	3.5				
			Middle	4.6	27.8	31.6	31.6	5.97	5.95	87.1	86.8	3.25	3.26	3.25	3.26	3.5	3.5	3.48	3.5	3.7
			Bottom	8.2	27.6	32.1	32.1	5.53	5.55	80.7	80.9	3.43	3.44	3.43	3.45	4.0	4.0			
11/08/06	12:45-13:00	28/Cloudy	Surface	1.0	28.3	27.1	27.1	6.68	6.64	6.66	100.3	99.8	2.10	2.00	2.0	2.0				
			Middle	4.3	28.3	29.1	29.1	6.63	6.68	101.3	100.8	2.31	2.26	2.31	2.21	2.5	2.5	2.45	2.5	2.6
			Bottom	7.6	28.3	29.4	29.4	6.39	6.35	97.7	97.4	3.06	3.03	3.06	3.00	3.2	3.3			
14/08/06	15:30-15:45	32/Cloudy	Surface	1.0	28.9	30.7	30.7	6.82	6.81	6.56	99.5	99.3	2.96	2.75	2.5	2.5				
			Middle	4.6	28.3	32.2	32.2	6.34	6.32	91.9	91.6	2.58	2.58	2.57	2.57	3.0	3.0	2.71	3.0	2.8
			Bottom	8.2	28.0	32.4	32.5	5.87	5.86	85.1	84.9	2.69	2.70	2.69	2.70	2.7	2.8			
16/08/06	16:40-16:55	32/Sunny	Surface	1.0	29.8	29.4	29.4	6.72	6.67	6.81	103.9	103.5	2.66	2.60	2.5	2.5				
			Middle	3.8	28.8	30.0	30.0	6.99	6.95	108.1	107.6	2.80	2.75	2.80	2.70	2.5	2.5	2.58	2.5	2.6
			Bottom	6.6	29.1	30.8	30.8	7.19	7.15	111.2	110.7	2.41	2.36	2.41	2.31	2.7	2.9			
18/08/06	09:42-09:56	30/Sunny	Surface	1.0	27.2	28.9	28.9	6.90	6.86	6.63	98.6	98.1	3.28	3.30	3.2	3.2				
			Middle	4.9	26.7	29.5	29.5	6.44	6.40	92.0	91.5	3.62	3.60	3.62	3.57	3.5	3.5	3.29	3.5	3.5
			Bottom	8.8	26.3	30.9	31.0	6.06	6.03	86.6	86.1	2.96	2.99	2.96	3.01	3.8	3.8			

Mid-Ebb Tide



東業德勤測試顧問有限公司
ETS-TESTCONSULT LIMITED

Monitoring Station : M4

Date	Sampling Duration	Ambient Temp (°C) / Weather Condition	Monitoring Depth (m)	Temp (°C)	Salinity (ppt)		Dissolved Oxygen (mg/L)			Dissolved Oxygen Saturation (%)			Turbidity (NTU)			Suspended Solids (mg/L)		
					Value	Average	Value	Average	Depth-average	Value	Average	Depth-average	Value	Average	Depth-average	Value	Average	Depth-average
21/08/06	10:00-10:12	34/Cloudy	Surface	28.9	30.1	30.1	6.59	6.64	6.44	100.2	100.7	2.96	2.93	3.5	3.5	3.4		
					30.1		6.69			101.2							2.90	
			Middle	28.2	30.7	30.7	6.20	6.23	6.06	93.7	94.2	3.07	3.04	3.03	3.0		3.1	
					30.7		6.26			94.7		3.00						
			Bottom	28.0	31.7	31.7	6.11	6.06	6.06	92.9	92.5	3.16	3.13	3.10	3.5		3.5	
					31.7		6.01			92.0		3.10						
23/08/06	12:20-12:33	33/Sunny	Surface	29.3	28.6	28.6	6.61	6.56	6.35	100.8	100.4	3.21	3.16	3.0	3.0			
					28.6		6.51			99.9						3.11		
			Middle	29.1	29.2	29.2	6.19	6.15	6.15	92.6	92.3	3.37	3.34	3.30	2.8	2.9		
					29.2		6.10			92.0		3.30						
			Bottom	28.7	30.1	30.1	6.26	6.23	6.23	95.7	95.4	4.00	3.95	4.00	3.5	3.5		
					30.1		6.20			95.0		3.90						
25/08/06	13:15-13:30	29/Rainy	Surface	27.8	27.0	27.0	6.67	6.65	6.38	96.0	95.7	3.88	3.89	3.3	3.3			
					27.0		6.63			95.4						3.89		
			Middle	27.5	30.0	30.1	6.12	6.10	6.10	88.1	87.8	3.76	3.77	3.76	3.2	3.2		
					30.1		6.08			87.5		3.77						
			Bottom	27.4	30.7	30.7	5.98	5.97	5.97	85.5	85.3	3.29	3.30	3.29	3.5	3.5		
					30.6		5.95			85.0		3.30						
28/08/06	14:30-14:45	29/Cloudy	Surface	28.2	28.0	28.0	6.72	6.71	6.45	98.1	97.9	3.43	3.43	3.3	3.4			
					28.0		6.69			97.6						3.42		
			Middle	27.9	30.6	30.6	6.21	6.20	6.20	90.6	90.4	3.57	3.57	3.56	3.5	3.5		
					30.6		6.18			90.2		3.56						
			Bottom	27.4	31.2	31.2	5.74	5.72	5.72	83.8	83.5	3.10	3.11	3.10	3.0	3.1		
					31.1		5.70			83.2		3.12						
30/08/06	16:44-17:00	30/Sunny	Surface	30.4	31.1	31.1	6.84	6.79	6.55	104.0	103.6	3.17	3.14	3.3	3.3			
					31.1		6.74			103.2						3.10		
			Middle	29.5	30.2	30.2	6.36	6.31	6.31	97.0	96.5	3.02	3.07	3.02	3.3	3.3		
					30.2		6.26			96.0		3.12						
			Bottom	29.2	30.0	30.0	6.20	6.15	6.15	95.1	94.6	2.98	2.94	2.98	3.2	3.1		
					30.0		6.10			94.1		2.90						

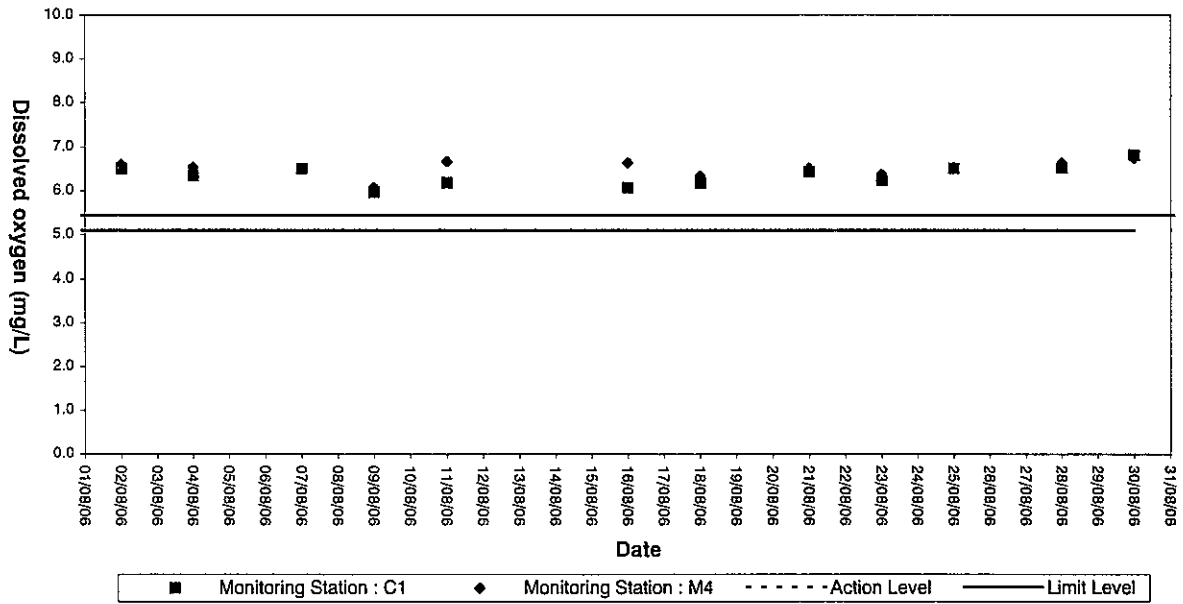


Appendix D3

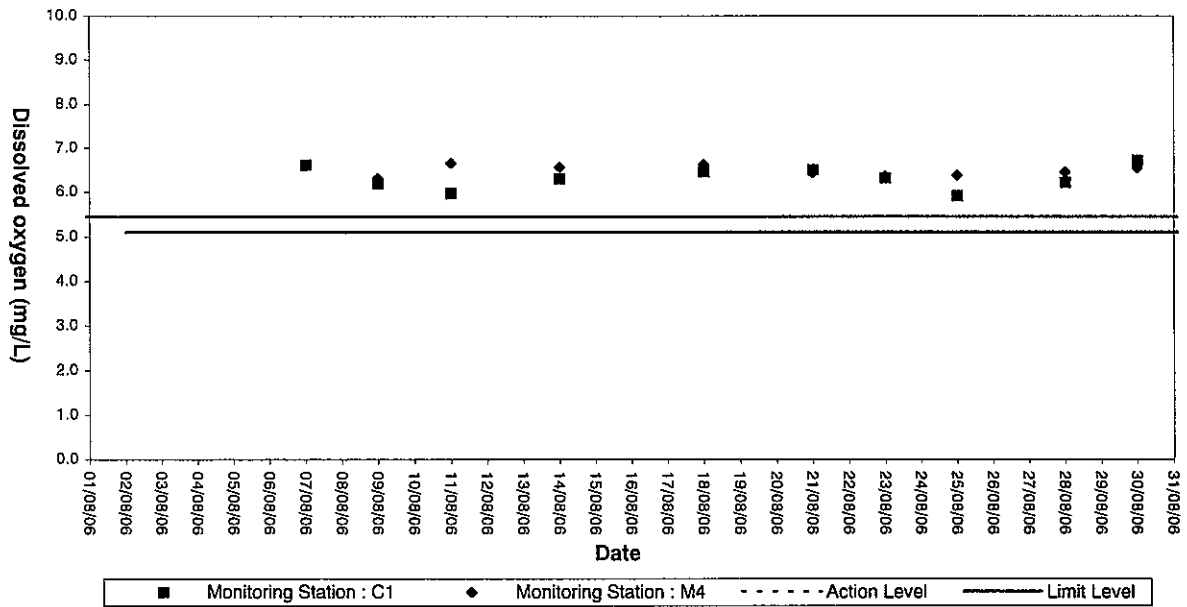
Graphical Plots of Impact Marine Water Quality Monitoring Data



Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide

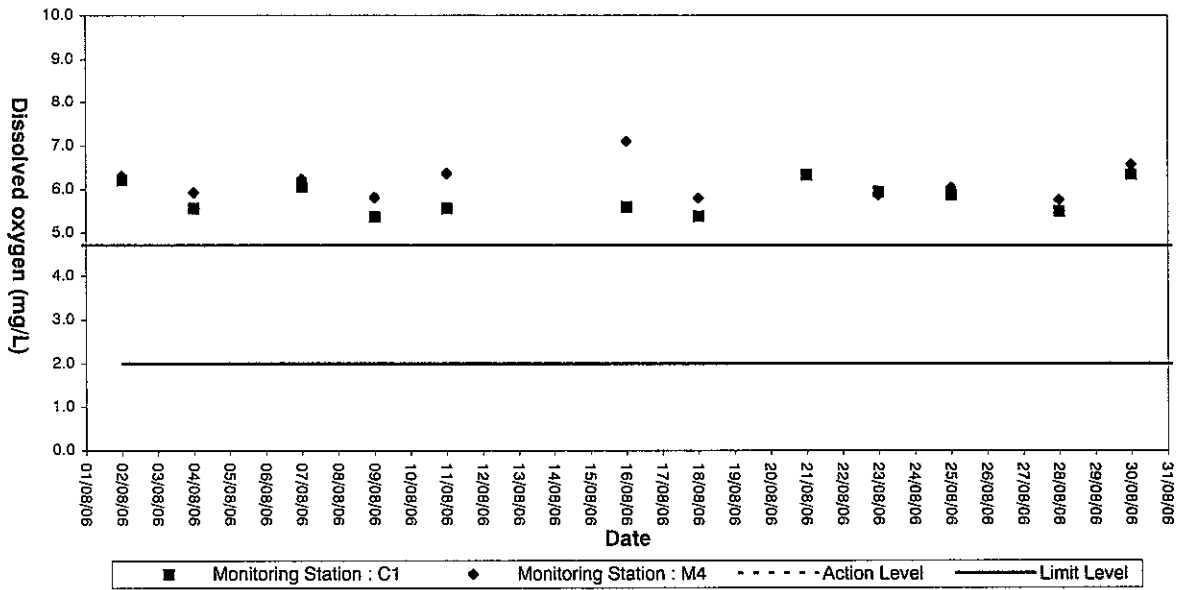


Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide

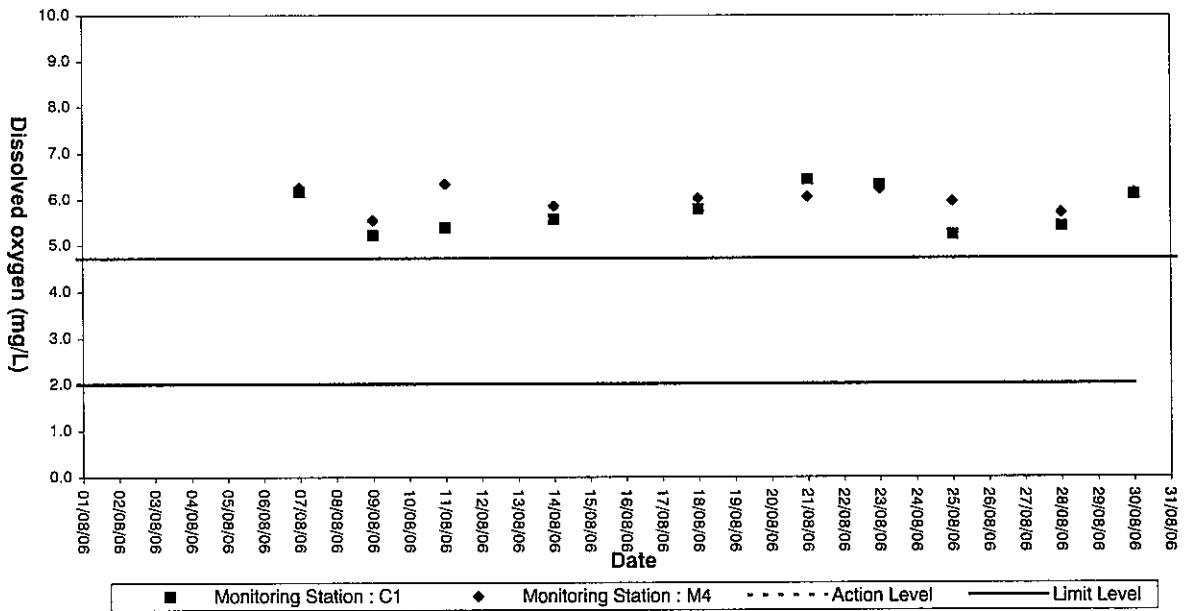




Dissolved Oxygen (Bottom) at Mid-Flood Tide

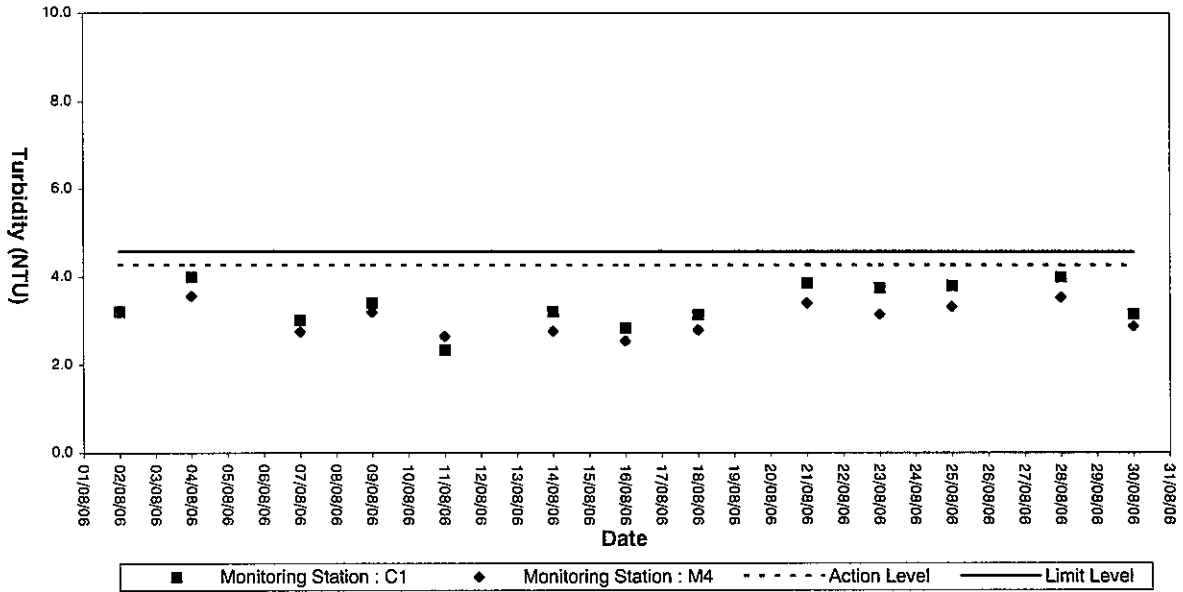


Dissolved Oxygen (Bottom) at Mid-Ebb Tide

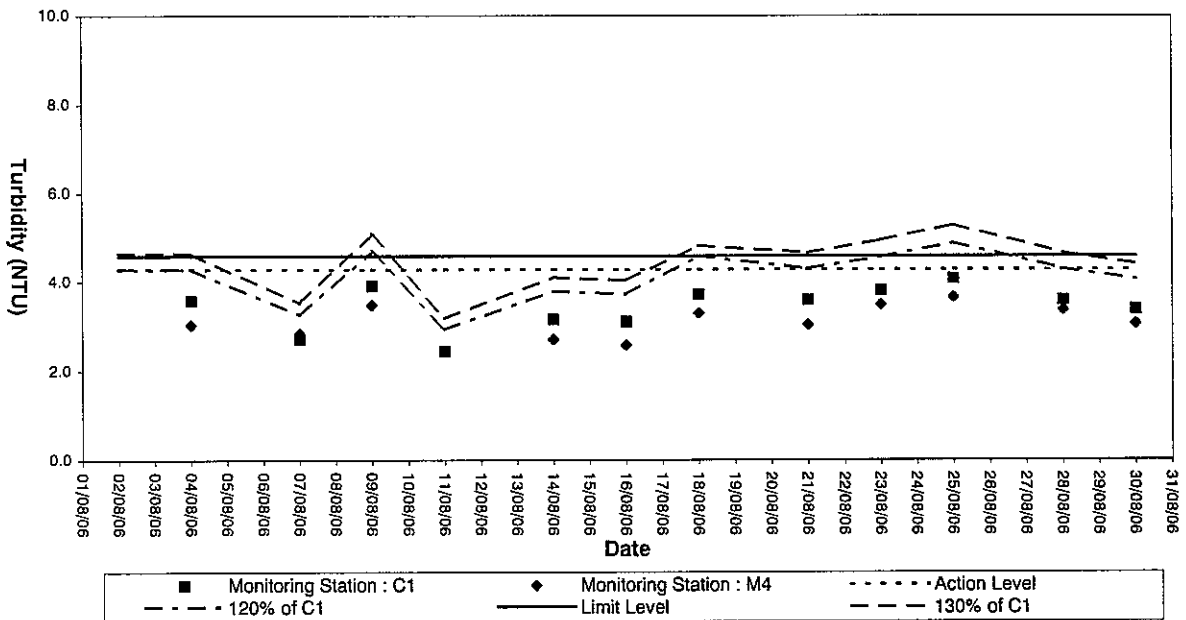




Turbidity (Depth-average) at Mid-Flood Tide

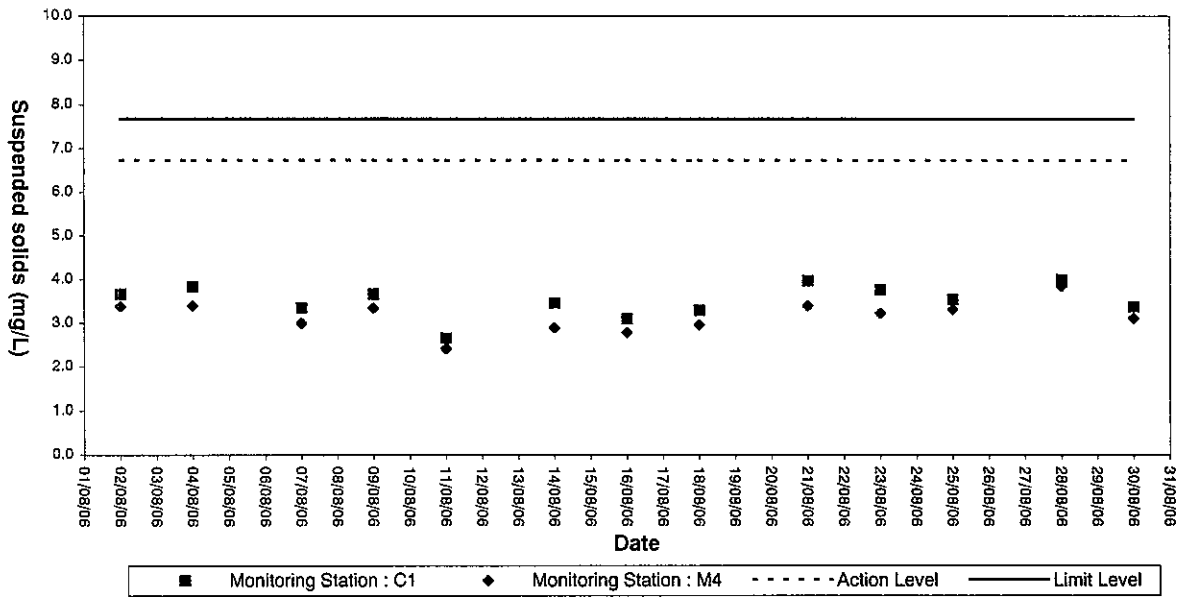


Turbidity (Depth-average) at Mid-Ebb Tide

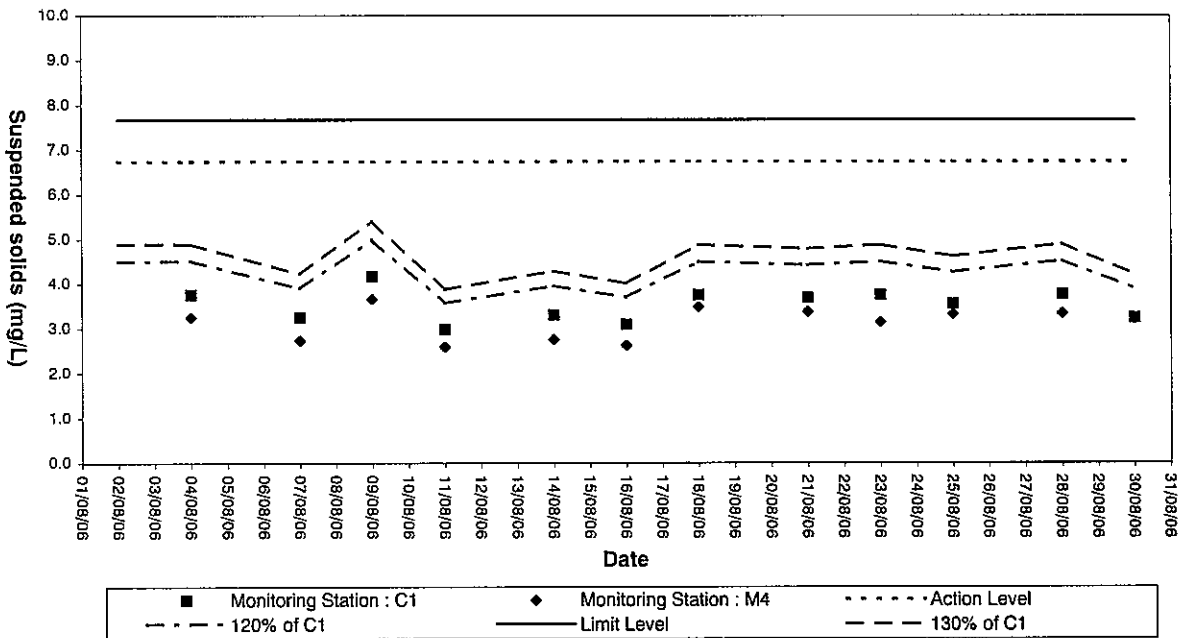




Suspended solids (Depth-average) at Mid-Flood Tide



Suspended Solids (Depth-average) at Mid-Ebb Tide





Appendix E

Weather Condition

Weather information in August 2006

Date (DMY)	Time	Average	Hi	Low	Wind Speed (m/s)		Wind Direction	Period
		Temp	Temp	Temp	Average	Hi		
01/08/06	12:00 AM	24.9	24.9	24.8	0.2	1.2	N	30
01/08/06	12:30 AM	24.9	25.3	24.6	0.3	1.7	N	30
01/08/06	1:00 AM	24.8	24.9	24.7	0.5	1.3	N	30
01/08/06	1:30 AM	24.7	25.0	24.4	0.2	1.4	N	30
01/08/06	2:00 AM	24.6	25.0	24.6	0.9	1.5	N	30
01/08/06	2:30 AM	24.5	24.5	24.4	0.2	2.0	N	30
01/08/06	3:00 AM	24.5	24.7	24.2	0.3	0.9	N	30
01/08/06	3:30 AM	24.8	25.0	24.5	0.5	1.7	N	30
01/08/06	4:00 AM	24.6	24.6	24.5	0.4	1.5	N	30
01/08/06	4:30 AM	24.5	24.8	24.5	0.2	0.3	N	30
01/08/06	5:00 AM	24.5	24.6	24.5	0.6	1.8	N	30
01/08/06	5:30 AM	24.2	24.5	23.9	0.3	2.2	N	30
01/08/06	6:00 AM	24.2	24.4	24.0	0.5	2.8	N	30
01/08/06	6:30 AM	24.8	24.9	24.6	1.9	2.3	NE	30
01/08/06	7:00 AM	25.4	25.7	25.2	0.2	0.2	E	30
01/08/06	7:30 AM	26.2	26.3	26.1	1.0	3.2	NE	30
01/08/06	8:00 AM	27.2	27.4	27.0	0.4	2.1	N	30
01/08/06	8:30 AM	28.6	28.7	28.4	1.1	2.6	NE	30
01/08/06	9:00 AM	29.1	29.2	28.8	1.0	2.4	NE	30
01/08/06	9:30 AM	29.4	29.4	29.3	3.6	5.0	E	30
01/08/06	10:00 AM	29.8	30.1	29.5	2.9	3.1	E	30
01/08/06	10:30 AM	30.0	30.2	29.9	4.0	4.2	SE	30
01/08/06	11:00 AM	30.0	30.3	29.8	2.8	4.2	SE	30
01/08/06	11:30 AM	30.8	31.1	30.7	1.9	2.7	SE	30
01/08/06	12:00 PM	31.1	31.5	31.0	3.0	4.3	SE	30
01/08/06	12:30 PM	31.1	31.4	30.8	2.7	3.2	SE	30
01/08/06	1:00 PM	32.0	32.2	31.8	2.1	4.0	SE	30
01/08/06	1:30 PM	32.2	32.5	31.9	0.3	1.8	W	30
01/08/06	2:00 PM	33.0	33.4	33.0	2.0	4.1	W	30
01/08/06	2:30 PM	33.0	33.2	32.9	1.8	3.2	W	30
01/08/06	3:00 PM	33.0	33.4	32.8	2.4	3.2	SW	30
01/08/06	3:30 PM	33.1	33.3	32.9	1.9	3.1	W	30
01/08/06	4:00 PM	31.9	32.0	31.6	0.5	1.0	SE	30
01/08/06	4:30 PM	30.0	30.0	29.9	4.8	6.2	SE	30
01/08/06	5:00 PM	29.5	29.5	29.3	4.3	4.9	SE	30
01/08/06	5:30 PM	29.0	29.0	28.8	2.5	3.9	SE	30
01/08/06	6:00 PM	28.6	28.7	28.4	4.3	4.9	SE	30
01/08/06	6:30 PM	28.0	28.2	28.0	4.9	6.7	E	30
01/08/06	7:00 PM	28.0	28.1	27.8	4.7	6.0	SE	30
01/08/06	7:30 PM	27.6	27.8	27.4	2.8	3.4	SE	30
01/08/06	8:00 PM	28.0	28.3	27.8	2.6	4.0	SE	30
01/08/06	8:30 PM	27.1	27.3	26.9	0.4	2.5	SE	30
01/08/06	9:00 PM	27.5	27.5	27.4	2.9	3.6	SE	30
01/08/06	9:30 PM	27.5	27.8	27.5	3.1	3.9	E	30
01/08/06	10:00 PM	27.5	27.7	27.3	2.7	3.0	E	30
01/08/06	10:30 PM	27.1	27.5	26.9	2.6	2.8	E	30
01/08/06	11:00 PM	27.6	27.9	27.3	3.4	5.4	E	30
01/08/06	11:30 PM	27.6	27.7	27.5	2.7	3.3	E	30
02/08/06	12:00 AM	27.5	27.7	27.2	4.6	4.8	E	30
02/08/06	12:30 AM	27.8	27.8	27.5	4.4	5.8	NE	30
02/08/06	1:00 AM	27.9	28.0	27.9	6.9	7.3	NE	30
02/08/06	1:30 AM	28.0	28.0	27.8	3.5	3.8	NE	30
02/08/06	2:00 AM	28.0	28.0	27.9	4.4	5.7	NE	30
02/08/06	2:30 AM	28.0	28.2	27.9	3.6	4.7	NE	30
02/08/06	3:00 AM	28.0	28.2	27.8	3.8	4.2	E	30
02/08/06	3:30 AM	28.1	28.4	28.1	6.2	6.7	NE	30
02/08/06	4:00 AM	28.0	28.2	28.0	4.5	6.0	NE	30
02/08/06	4:30 AM	28.1	28.2	27.8	6.4	8.3	NE	30
02/08/06	5:00 AM	27.6	27.9	27.4	4.9	6.6	E	30
02/08/06	5:30 AM	25.9	26.2	25.6	6.8	7.5	NE	30
02/08/06	6:00 AM	25.0	25.2	24.7	4.0	5.2	NE	30
02/08/06	6:30 AM	24.8	24.9	24.7	4.9	5.6	E	30
02/08/06	7:00 AM	24.9	25.3	24.9	5.4	6.8	E	30
02/08/06	7:30 AM	25.9	26.0	25.6	4.7	6.2	E	30
02/08/06	8:00 AM	26.1	26.5	26.0	4.5	5.4	E	30
02/08/06	8:30 AM	27.0	27.4	26.9	3.7	4.1	E	30
02/08/06	9:00 AM	27.0	27.0	26.8	4.4	4.6	NE	30
02/08/06	9:30 AM	27.0	27.1	26.9	3.8	4.8	E	30
02/08/06	10:00 AM	27.2	27.5	27.1	4.8	7.1	NE	30
02/08/06	10:30 AM	27.0	27.4	26.9	5.3	7.3	NE	30
02/08/06	11:00 AM	27.1	27.4	27.0	6.2	6.7	NE	30
02/08/06	11:30 AM	27.5	27.8	27.3	5.8	7.5	NE	30
02/08/06	12:00 PM	27.9	28.1	27.7	5.6	7.6	NE	30
02/08/06	12:30 PM	26.4	26.7	26.3	8.2	8.6	NE	30
02/08/06	1:00 PM	26.1	26.1	25.9	5.4	5.6	NE	30
02/08/06	1:30 PM	25.5	25.8	25.2	7.2	7.8	NE	30
02/08/06	2:00 PM	25.2	25.4	25.1	6.5	7.7	NE	30
02/08/06	2:30 PM	26.0	26.1	25.9	8.1	8.8	NE	30
02/08/06	3:00 PM	25.3	25.6	25.1	9.2	11.4	NE	30
02/08/06	3:30 PM	25.0	25.0	24.8	8.2	8.2	E	30
02/08/06	4:00 PM	25.1	25.2	24.9	6.1	7.8	E	30
02/08/06	4:30 PM	25.4	25.6	25.2	6.5	6.9	E	30
02/08/06	5:00 PM	25.4	25.5	25.3	5.7	6.6	E	30
02/08/06	5:30 PM	25.4	25.7	25.2	5.8	6.9	E	30
02/08/06	6:00 PM	25.7	25.7	25.5	6.2	6.6	E	30
02/08/06	6:30 PM	25.8	26.0	25.7	8.9	10.2	E	30
02/08/06	7:00 PM	25.6	25.9	25.3	7.2	9.4	E	30
02/08/06	7:30 PM	26.3	26.6	26.2	7.3	9.3	E	30
02/08/06	8:00 PM	26.5	26.8	26.4	7.1	8.4	E	30
02/08/06	8:30 PM	26.5	26.7	26.3	6.7	8.1	E	30
02/08/06	9:00 PM	26.1	26.3	25.9	5.9	6.2	E	30
02/08/06	9:30 PM	26.3	26.4	26.1	9.5	11.1	E	30
02/08/06	10:00 PM	26.6	26.9	26.6	6.3	6.9	E	30
02/08/06	10:30 PM	27.0	27.3	26.7	6.9	7.5	E	30
02/08/06	11:00 PM	26.0	26.1	25.8	6.7	8.8	E	30
02/08/06	11:30 PM	26.5	26.8	26.5	8.7	9.1	E	30



Weather information in August 2006

Date (DMY)	Time	Average	Hi	Low	Wind Speed (m/s)		Wind Direction	Period
		Temp	Temp	Temp	Average	Hi		
03/08/06	12:00 AM	27.0	27.1	27.0	6.6	8.8	E	30
03/08/06	12:30 AM	27.1	27.2	27.0	7.3	7.3	E	30
03/08/06	1:00 AM	27.0	27.3	26.8	8.6	9.1	E	30
03/08/06	1:30 AM	24.3	24.4	24.0	7.2	9.5	E	30
03/08/06	2:00 AM	26.2	26.3	26.1	8.5	10.5	E	30
03/08/06	2:30 AM	26.1	26.4	26.0	9.2	11.3	E	30
03/08/06	3:00 AM	26.8	27.1	26.7	7.1	7.3	E	30
03/08/06	3:30 AM	26.8	27.0	26.6	8.1	8.2	E	30
03/08/06	4:00 AM	25.9	26.1	25.8	6.5	8.8	E	30
03/08/06	4:30 AM	25.0	25.1	24.7	7.3	7.6	E	30
03/08/06	5:00 AM	25.8	25.9	25.6	8.4	10.6	SE	30
03/08/06	5:30 AM	25.7	25.8	25.7	9.9	10.6	SE	30
03/08/06	6:00 AM	26.3	26.5	26.1	7.4	8.3	SE	30
03/08/06	6:30 AM	26.3	26.6	26.3	10.2	11.4	SE	30
03/08/06	7:00 AM	26.5	26.5	26.2	12.6	14.5	SE	30
03/08/06	7:30 AM	26.5	26.8	26.4	9.5	10.0	SE	30
03/08/06	8:00 AM	26.9	27.0	26.7	10.4	12.2	E	30
03/08/06	8:30 AM	26.0	26.0	25.9	8.5	10.6	E	30
03/08/06	9:00 AM	25.7	25.7	25.7	7.2	8.8	E	30
03/08/06	9:30 AM	25.7	26.0	25.4	10.8	13.0	SE	30
03/08/06	10:00 AM	25.8	25.9	25.5	9.4	11.4	SE	30
03/08/06	10:30 AM	25.2	25.4	25.0	9.2	10.3	E	30
03/08/06	11:00 AM	25.2	25.4	25.0	8.5	10.4	E	30
03/08/06	11:30 AM	24.6	24.9	24.4	11.4	12.5	E	30
03/08/06	12:00 PM	25.0	25.2	24.9	8.9	9.3	E	30
03/08/06	12:30 PM	25.4	25.4	25.1	11.0	13.2	E	30
03/08/06	1:00 PM	25.9	26.3	25.7	9.9	10.9	E	30
03/08/06	1:30 PM	26.2	26.5	26.2	11.0	12.8	E	30
03/08/06	2:00 PM	25.7	26.0	25.7	8.2	8.4	E	30
03/08/06	2:30 PM	25.8	26.1	25.7	6.8	8.0	E	30
03/08/06	3:00 PM	26.0	26.1	25.8	10.1	11.0	E	30
03/08/06	3:30 PM	26.0	26.1	26.0	11.2	11.5	E	30
03/08/06	4:00 PM	26.2	26.5	25.9	10.9	12.8	E	30
03/08/06	4:30 PM	26.4	26.5	26.2	12.3	14.1	E	30
03/08/06	5:00 PM	25.0	25.2	24.9	11.2	11.4	E	30
03/08/06	5:30 PM	25.0	25.2	24.9	9.8	10.0	SE	30
03/08/06	6:00 PM	25.1	25.3	25.1	8.4	10.0	SE	30
03/08/06	6:30 PM	25.1	25.2	24.9	5.5	5.7	SE	30
03/08/06	7:00 PM	25.6	25.7	25.3	7.2	8.9	SE	30
03/08/06	7:30 PM	25.8	25.9	25.6	8.5	9.1	SE	30
03/08/06	8:00 PM	24.7	25.0	24.5	8.4	9.3	SE	30
03/08/06	8:30 PM	24.3	24.5	24.2	5.9	8.1	SE	30
03/08/06	9:00 PM	24.8	24.9	24.6	5.4	7.1	SE	30
03/08/06	9:30 PM	25.0	25.1	24.8	6.1	7.0	SE	30
03/08/06	10:00 PM	25.2	25.3	25.1	5.7	6.2	SE	30
03/08/06	10:30 PM	26.0	26.2	25.7	8.2	8.3	SE	30
03/08/06	11:00 PM	26.8	27.0	26.7	5.8	6.0	E	30
03/08/06	11:30 PM	26.8	27.1	26.7	6.2	7.9	SE	30
04/08/06	12:00 AM	26.5	26.7	26.4	7.1	7.7	SE	30
04/08/06	12:30 AM	26.5	26.8	26.3	6.8	8.5	SE	30
04/08/06	1:00 AM	26.6	26.7	26.3	7.2	7.7	SE	30
04/08/06	1:30 AM	26.5	26.8	26.2	7.5	9.1	SE	30
04/08/06	2:00 AM	26.5	26.7	26.5	8.4	10.2	SE	30
04/08/06	2:30 AM	26.5	26.6	26.4	9.6	9.9	SE	30
04/08/06	3:00 AM	26.4	26.6	26.4	5.8	8.0	SE	30
04/08/06	3:30 AM	26.3	26.5	26.2	7.1	7.8	SE	30
04/08/06	4:00 AM	26.4	26.7	26.1	4.9	5.6	SE	30
04/08/06	4:30 AM	26.3	26.4	26.0	4.9	6.2	SE	30
04/08/06	5:00 AM	26.3	26.6	26.0	2.8	3.0	SE	30
04/08/06	5:30 AM	26.2	26.3	26.0	5.5	6.9	SE	30
04/08/06	6:00 AM	26.4	26.4	26.2	3.2	3.2	SE	30
04/08/06	6:30 AM	26.7	27.1	26.7	2.4	2.8	SE	30
04/08/06	7:00 AM	26.8	26.9	26.8	2.9	3.0	S	30
04/08/06	7:30 AM	26.9	27.0	26.7	4.3	5.0	SE	30
04/08/06	8:00 AM	27.0	27.2	26.8	4.1	4.3	SE	30
04/08/06	8:30 AM	27.0	27.2	27.0	4.8	6.3	SE	30
04/08/06	9:00 AM	27.1	27.2	26.9	4.5	4.6	SE	30
04/08/06	9:30 AM	27.3	27.5	27.1	3.8	4.0	SE	30
04/08/06	10:00 AM	27.3	27.3	27.3	2.9	3.2	SE	30
04/08/06	10:30 AM	27.3	27.4	27.3	2.5	3.0	E	30
04/08/06	11:00 AM	27.2	27.5	27.0	2.0	2.9	SE	30
04/08/06	11:30 AM	27.3	27.5	27.2	1.0	1.6	SE	30
04/08/06	12:00 PM	27.6	27.9	27.3	2.9	4.3	SE	30
04/08/06	12:30 PM	27.6	27.9	27.3	3.3	4.7	SE	30
04/08/06	1:00 PM	27.7	28.1	27.5	4.9	6.0	SE	30
04/08/06	1:30 PM	28.5	28.8	28.3	4.5	5.2	SE	30
04/08/06	2:00 PM	28.7	28.8	28.6	2.3	4.4	SE	30
04/08/06	2:30 PM	28.6	28.8	28.6	4.4	4.6	S	30
04/08/06	3:00 PM	28.1	28.3	28.1	2.0	3.3	S	30
04/08/06	3:30 PM	27.9	28.0	27.8	4.4	6.5	S	30
04/08/06	4:00 PM	27.8	28.1	27.8	4.1	4.7	S	30
04/08/06	4:30 PM	27.7	28.0	27.7	3.9	4.2	S	30
04/08/06	5:00 PM	27.6	27.7	27.5	2.1	3.0	S	30
04/08/06	5:30 PM	27.6	28.0	27.6	4.3	5.2	SE	30
04/08/06	6:00 PM	27.6	27.6	27.5	3.0	4.6	SE	30
04/08/06	6:30 PM	27.5	27.6	27.4	3.5	5.5	SE	30
04/08/06	7:00 PM	27.4	27.7	27.1	2.1	2.1	S	30
04/08/06	7:30 PM	27.2	27.4	27.1	4.6	5.4	SE	30
04/08/06	8:00 PM	27.2	27.3	27.1	3.4	4.9	E	30
04/08/06	8:30 PM	27.1	27.3	27.0	4.7	6.0	E	30
04/08/06	9:00 PM	27.1	27.1	26.8	4.0	4.9	E	30
04/08/06	9:30 PM	27.1	27.1	26.9	3.7	5.2	E	30
04/08/06	10:00 PM	27.1	27.5	26.9	4.8	6.0	E	30
04/08/06	10:30 PM	27.1	27.1	27.0	4.6	6.7	E	30
04/08/06	11:00 PM	27.1	27.3	26.8	4.1	4.9	SE	30
04/08/06	11:30 PM	27.0	27.1	26.9	3.3	5.3	E	30

Weather information in August 2006

Date (DMY)	Time	Average	Hi	Low	Wind Speed (m/s)		Wind Direction	Period
		Temp	Temp	Temp	Average	Hi		
05/08/06	12:00 AM	27.1	27.2	27.0	3.6	4.6	E	30
05/08/06	12:30 AM	27.2	27.3	27.1	4.3	6.0	SE	30
05/08/06	1:00 AM	27.1	27.4	26.9	4.5	5.1	SEE	30
05/08/06	1:30 AM	27.0	27.3	27.0	3.9	4.7	SEE	30
05/08/06	2:00 AM	27.0	27.1	26.7	3.0	5.3	SEE	30
05/08/06	2:30 AM	26.9	27.2	26.8	4.0	5.6	SEE	30
05/08/06	3:00 AM	26.9	27.1	26.7	3.9	4.3	SEE	30
05/08/06	3:30 AM	26.9	26.9	26.9	3.5	5.3	SEE	30
05/08/06	4:00 AM	26.9	27.1	26.8	4.0	4.9	SEE	30
05/08/06	4:30 AM	26.5	26.6	26.5	3.3	3.4	SEE	30
05/08/06	5:00 AM	26.5	26.9	26.3	3.5	3.7	SEE	30
05/08/06	5:30 AM	26.4	26.7	26.3	2.0	2.1	SEE	30
05/08/06	6:00 AM	26.0	26.3	25.9	2.9	5.2	SEE	30
05/08/06	6:30 AM	26.0	26.1	25.9	1.9	2.3	SEE	30
05/08/06	7:00 AM	25.9	26.2	25.8	2.7	4.6	SEE	30
05/08/06	7:30 AM	26.0	26.1	25.7	2.0	4.3	SEE	30
05/08/06	8:00 AM	26.4	26.7	26.2	1.7	2.3	SEE	30
05/08/06	8:30 AM	26.8	27.0	26.7	2.5	4.7	SEE	30
05/08/06	9:00 AM	26.8	27.1	26.6	2.3	4.5	SE	30
05/08/06	9:30 AM	27.8	28.0	27.7	2.1	3.3	SE	30
05/08/06	10:00 AM	28.0	28.3	27.7	2.3	4.5	SEE	30
05/08/06	10:30 AM	29.0	29.3	28.8	0.4	2.5	SE	30
05/08/06	11:00 AM	29.1	29.2	29.0	0.9	2.4	SE	30
05/08/06	11:30 AM	29.4	29.7	29.4	2.1	4.3	SEE	30
05/08/06	12:00 PM	29.5	29.6	29.3	2.9	4.0	SEE	30
05/08/06	12:30 PM	29.6	29.9	29.5	2.5	2.6	SE	30
05/08/06	1:00 PM	29.6	29.8	29.3	3.2	3.8	SE	30
05/08/06	1:30 PM	29.4	29.7	29.2	3.9	4.2	SEE	30
05/08/06	2:00 PM	29.2	29.2	29.1	2.1	2.7	SEE	30
05/08/06	2:30 PM	29.2	29.3	28.9	0.9	2.8	SE	30
05/08/06	3:00 PM	29.1	29.2	29.0	2.1	2.5	SE	30
05/08/06	3:30 PM	28.9	29.3	28.7	0.4	2.5	SE	30
05/08/06	4:00 PM	28.8	29.0	28.6	0.8	1.3	SEE	30
05/08/06	4:30 PM	28.6	28.8	28.4	2.1	3.7	SEE	30
05/08/06	5:00 PM	28.4	28.5	28.4	1.3	2.6	SEE	30
05/08/06	5:30 PM	28.1	28.1	28.0	1.9	3.7	SEE	30
05/08/06	6:00 PM	27.8	28.1	27.5	1.5	3.5	SE	30
05/08/06	6:30 PM	27.4	27.5	27.3	0.8	2.8	SE	30
05/08/06	7:00 PM	27.2	27.3	27.1	0.4	1.4	SE	30
05/08/06	7:30 PM	26.9	27.3	26.9	1.3	2.6	SE	30
05/08/06	8:00 PM	26.5	26.7	26.5	1.9	2.8	SEE	30
05/08/06	8:30 PM	26.3	26.6	26.0	2.3	3.9	SEE	30
05/08/06	9:00 PM	26.2	26.4	26.0	1.8	2.6	SEE	30
05/08/06	9:30 PM	26.1	26.3	25.9	2.5	3.1	SEE	30
05/08/06	10:00 PM	25.9	26.0	25.7	2.9	4.1	SEE	30
05/08/06	10:30 PM	25.7	25.8	25.7	1.5	2.1	SEE	30
05/08/06	11:00 PM	25.6	25.8	25.4	1.2	3.0	SE	30
05/08/06	11:30 PM	25.6	25.9	25.3	1.6	1.8	SEE	30
06/08/06	12:00 AM	25.5	25.5	25.4	1.1	2.8	SEE	30
06/08/06	12:30 AM	25.4	25.5	25.3	0.8	1.7	SEE	30
06/08/06	1:00 AM	25.3	25.5	25.0	1.6	2.0	SEE	30
06/08/06	1:30 AM	25.2	25.4	25.1	1.5	2.4	SEE	30
06/08/06	2:00 AM	25.1	25.2	25.1	1.9	2.3	SEE	30
06/08/06	2:30 AM	24.9	25.2	24.6	2.1	3.1	SEE	30
06/08/06	3:00 AM	24.8	24.9	24.7	2.5	2.7	SEE	30
06/08/06	3:30 AM	24.7	24.9	24.6	2.9	3.2	SE	30
06/08/06	4:00 AM	24.7	25.0	24.6	2.1	3.5	SEE	30
06/08/06	4:30 AM	24.6	24.7	24.5	1.7	3.8	SEE	30
06/08/06	5:00 AM	24.6	24.8	24.6	1.5	2.4	SE	30
06/08/06	5:30 AM	24.6	24.7	24.5	1.2	3.1	SE	30
06/08/06	6:00 AM	24.8	24.9	24.5	1.6	3.3	SE	30
06/08/06	6:30 AM	25.0	25.2	24.9	1.2	2.9	SE	30
06/08/06	7:00 AM	25.3	25.6	25.3	2.1	3.9	E	30
06/08/06	7:30 AM	25.9	26.1	25.6	2.9	3.2	E	30
06/08/06	8:00 AM	26.0	26.2	25.9	2.1	2.7	SEE	30
06/08/06	8:30 AM	26.2	26.4	26.2	1.8	3.1	SEE	30
06/08/06	9:00 AM	26.3	26.5	26.0	1.3	2.5	SEE	30
06/08/06	9:30 AM	26.5	26.7	26.5	0.8	1.8	SEE	30
06/08/06	10:00 AM	26.8	27.2	26.7	1.1	1.9	SE	30
06/08/06	10:30 AM	27.0	27.4	27.0	0.1	0.5	SE	30
06/08/06	11:00 AM	27.1	27.2	27.1	2.3	3.4	SEE	30
06/08/06	11:30 AM	27.2	27.6	27.0	1.5	1.7	SEE	30
06/08/06	12:00 PM	27.4	27.6	27.3	0.3	1.4	SEE	30
06/08/06	12:30 PM	28.0	28.1	28.0	1.4	2.1	SEE	30
06/08/06	1:00 PM	28.0	28.3	28.0	2.0	3.2	SEE	30
06/08/06	1:30 PM	28.0	28.2	27.8	2.8	3.2	SEE	30
06/08/06	2:00 PM	28.2	28.2	27.9	3.2	4.7	SEE	30
06/08/06	2:30 PM	28.7	28.9	28.5	2.9	3.2	SEE	30
06/08/06	3:00 PM	28.2	28.6	27.9	2.8	4.8	SEE	30
06/08/06	3:30 PM	28.0	28.2	27.9	2.2	3.5	SEE	30
06/08/06	4:00 PM	28.6	28.9	28.3	3.0	3.9	SEE	30
06/08/06	4:30 PM	28.0	28.3	27.7	3.0	3.9	SEE	30
06/08/06	5:00 PM	27.9	28.1	27.8	2.1	3.4	E	30
06/08/06	5:30 PM	27.7	27.8	27.6	3.4	4.9	SEE	30
06/08/06	6:00 PM	27.5	27.6	27.3	2.9	4.9	SEE	30
06/08/06	6:30 PM	26.6	26.7	26.5	3.0	3.8	SEE	30
06/08/06	7:00 PM	26.7	26.9	26.4	3.1	3.3	SEE	30
06/08/06	7:30 PM	26.1	26.2	26.1	2.5	2.6	SEE	30
06/08/06	8:00 PM	26.0	26.1	25.8	2.2	2.3	SE	30
06/08/06	8:30 PM	26.0	26.0	25.8	2.5	3.6	SEE	30
06/08/06	9:00 PM	26.0	26.1	25.9	2.7	3.1	SEE	30
06/08/06	9:30 PM	26.0	26.1	25.9	2.4	3.4	SEE	30
06/08/06	10:00 PM	25.9	26.0	25.8	2.3	3.7	SEE	30
06/08/06	10:30 PM	26.0	26.0	25.9	1.9	2.8	SEE	30
06/08/06	11:00 PM	25.9	26.1	25.8	2.0	4.2	SEE	30
06/08/06	11:30 PM	25.8	25.9	25.6	0.3	2.5	SEE	30



Weather information in August 2006

Date (DMY)	Time	Average	Hi	Low	Wind Speed (m/s)		Wind	Period
		Temp	Temp	Temp	Average	Hi	Direction	
07/08/06	12:00 AM	25.6	25.9	25.5	0.4	2.7	SEE	30
07/08/06	12:30 AM	25.5	25.7	25.5	0.2	0.2	N	30
07/08/06	1:00 AM	25.4	25.5	25.2	0.2	1.0	SEE	30
07/08/06	1:30 AM	25.0	25.3	24.9	0.0	0.2	N	30
07/08/06	2:00 AM	25.0	25.2	24.9	0.2	2.1	N	30
07/08/06	2:30 AM	25.0	25.3	24.7	0.2	1.6	N	30
07/08/06	3:00 AM	25.0	25.0	24.8	0.0	0.0	N	30
07/08/06	3:30 AM	25.0	25.2	24.8	1.3	1.7	SEE	30
07/08/06	4:00 AM	24.9	25.3	24.7	0.1	0.7	N	30
07/08/06	4:30 AM	24.7	25.0	24.6	0.0	0.5	N	30
07/08/06	5:00 AM	24.6	25.0	24.4	0.0	2.1	N	30
07/08/06	5:30 AM	24.5	24.9	24.2	0.0	0.4	N	30
07/08/06	6:00 AM	24.5	24.8	24.2	0.1	0.6	N	30
07/08/06	6:30 AM	24.7	24.8	24.5	0.0	2.0	N	30
07/08/06	7:00 AM	25.0	25.1	24.8	0.2	0.5	N	30
07/08/06	7:30 AM	26.0	26.2	26.0	0.1	1.2	N	30
07/08/06	8:00 AM	27.0	27.1	26.8	0.0	0.2	N	30
07/08/06	8:30 AM	27.3	27.6	27.2	0.2	1.5	N	30
07/08/06	9:00 AM	28.0	28.4	27.9	0.0	1.6	N	30
07/08/06	9:30 AM	29.1	29.1	29.0	0.6	2.8	N	30
07/08/06	10:00 AM	29.0	29.1	28.9	1.7	2.7	W	30
07/08/06	10:30 AM	29.1	29.4	28.9	2.6	3.2	W	30
07/08/06	11:00 AM	30.1	30.3	29.9	1.3	2.3	W	30
07/08/06	11:30 AM	31.0	31.3	30.9	0.8	1.8	W	30
07/08/06	12:00 PM	31.0	31.3	30.7	2.1	3.7	W	30
07/08/06	12:30 PM	30.5	30.6	30.4	1.9	4.1	W	30
07/08/06	1:00 PM	31.0	31.1	30.7	1.3	2.0	W	30
07/08/06	1:30 PM	31.0	31.3	30.8	0.9	3.0	NWW	30
07/08/06	2:00 PM	31.0	31.2	30.9	1.5	1.6	NWWW	30
07/08/06	2:30 PM	30.2	30.3	30.1	1.4	1.6	W	30
07/08/06	3:00 PM	30.0	30.1	29.9	0.2	0.3	W	30
07/08/06	3:30 PM	30.2	30.6	29.9	0.2	2.2	SE	30
07/08/06	4:00 PM	30.0	30.3	30.0	0.3	2.6	SW	30
07/08/06	4:30 PM	29.1	29.3	28.9	0.5	2.6	S	30
07/08/06	5:00 PM	28.8	28.8	28.7	1.6	2.6	S	30
07/08/06	5:30 PM	28.2	28.5	28.2	0.2	0.4	N	30
07/08/06	6:00 PM	28.0	28.3	27.8	0.4	2.0	N	30
07/08/06	6:30 PM	27.8	28.0	27.5	0.2	1.7	W	30
07/08/06	7:00 PM	27.2	27.4	27.2	0.2	2.1	N	30
07/08/06	7:30 PM	27.0	27.3	26.8	0.0	0.0	N	30
07/08/06	8:00 PM	27.0	27.0	26.9	0.0	0.4	N	30
07/08/06	8:30 PM	26.1	26.2	26.1	0.2	1.5	N	30
07/08/06	9:00 PM	26.0	26.0	25.7	0.2	2.3	W	30
07/08/06	9:30 PM	25.0	25.2	24.9	0.0	1.8	N	30
07/08/06	10:00 PM	25.8	25.9	25.7	0.0	0.4	N	30
07/08/06	10:30 PM	25.5	25.6	25.2	0.0	0.8	N	30
07/08/06	11:00 PM	25.3	25.6	25.2	0.0	1.0	N	30
07/08/06	11:30 PM	25.2	25.3	25.0	0.0	1.9	N	30
08/08/06	12:00 AM	25.1	25.1	25.0	0.2	2.3	N	30
08/08/06	12:30 AM	25.0	25.1	24.7	1.5	3.4	W	30
08/08/06	1:00 AM	25.0	25.4	24.9	1.3	1.8	W	30
08/08/06	1:30 AM	25.0	25.4	24.9	0.6	1.2	W	30
08/08/06	2:00 AM	25.0	25.3	25.0	0.0	1.9	W	30
08/08/06	2:30 AM	25.0	25.4	24.9	0.6	1.5	W	30
08/08/06	3:00 AM	25.0	25.3	24.8	0.2	1.4	N	30
08/08/06	3:30 AM	24.9	25.0	24.8	0.0	2.0	N	30
08/08/06	4:00 AM	24.9	25.0	24.8	0.2	1.9	N	30
08/08/06	4:30 AM	24.8	25.2	24.8	0.0	1.0	N	30
08/08/06	5:00 AM	24.8	24.9	24.7	0.2	1.0	W	30
08/08/06	5:30 AM	24.7	25.1	24.4	1.8	2.3	W	30
08/08/06	6:00 AM	24.7	25.0	24.5	0.4	2.4	SWW	30
08/08/06	6:30 AM	25.0	25.1	24.8	0.0	1.3	N	30
08/08/06	7:00 AM	25.2	25.5	24.9	0.0	0.5	N	30
08/08/06	7:30 AM	26.5	26.8	26.4	0.2	0.4	N	30
08/08/06	8:00 AM	27.0	27.4	26.7	0.2	2.4	N	30
08/08/06	8:30 AM	28.0	28.2	27.8	0.0	1.3	N	30
08/08/06	9:00 AM	28.8	29.0	28.8	0.2	1.7	N	30
08/08/06	9:30 AM	30.0	30.3	29.9	0.2	1.1	N	30
08/08/06	10:00 AM	30.8	30.8	30.7	0.0	1.2	N	30
08/08/06	10:30 AM	30.8	31.0	30.5	0.0	2.2	N	30
08/08/06	11:00 AM	31.5	31.7	31.2	0.0	2.1	N	30
08/08/06	11:30 AM	32.0	32.1	31.8	0.0	0.3	N	30
08/08/06	12:00 PM	31.9	31.9	31.7	1.7	3.0	E	30
08/08/06	12:30 PM	31.5	31.7	31.4	1.7	2.8	S	30
08/08/06	1:00 PM	31.0	31.1	30.8	2.8	3.5	SWS	30
08/08/06	1:30 PM	31.5	31.6	31.4	2.2	2.8	SWS	30
08/08/06	2:00 PM	32.0	32.2	31.9	2.2	3.0	S	30
08/08/06	2:30 PM	32.0	32.2	31.9	1.8	2.2	S	30
08/08/06	3:00 PM	31.8	32.0	31.7	3.2	4.0	S	30
08/08/06	3:30 PM	31.8	32.1	31.6	1.2	2.2	S	30
08/08/06	4:00 PM	31.0	31.1	30.8	1.1	1.3	SWS	30
08/08/06	4:30 PM	30.0	30.1	29.9	1.0	1.6	SW	30
08/08/06	5:00 PM	29.2	29.4	29.1	0.6	2.4	SWS	30
08/08/06	5:30 PM	28.8	29.1	28.8	2.1	2.8	SWS	30
08/08/06	6:00 PM	28.0	28.4	27.9	1.6	2.2	SE	30
08/08/06	6:30 PM	27.1	27.3	27.0	0.6	1.7	SWS	30
08/08/06	7:00 PM	26.7	27.1	26.6	0.4	2.1	NE	30
08/08/06	7:30 PM	26.3	26.4	26.3	0.6	2.8	NE	30
08/08/06	8:00 PM	26.8	26.9	26.8	1.8	3.8	N	30
08/08/06	8:30 PM	27.0	27.0	26.9	1.5	3.6	NEN	30
08/08/06	9:00 PM	27.0	27.3	26.8	1.1	2.2	NE	30
08/08/06	9:30 PM	28.8	28.9	28.6	2.2	2.4	NEN	30
08/08/06	10:00 PM	26.8	27.0	26.8	1.8	3.2	NE	30
08/08/06	10:30 PM	26.2	26.3	26.1	1.3	2.6	NEN	30
08/08/06	11:00 PM	26.1	26.4	25.9	0.5	2.4	NW	30
08/08/06	11:30 PM	26.0	26.0	25.8	1.0	1.0	NW	30

Weather information in August 2006

Date (DMY)	Time	Average	Hi	Low	Wind Speed (m/s)		Wind	Period
		Temp	Temp	Temp	Average	Hi	Direction	
09/08/06	12:00 AM	25.9	26.0	25.7	0.8	2.5	NW	30
09/08/06	12:30 AM	25.7	26.0	25.7	0.6	2.4	N	30
09/08/06	1:00 AM	25.7	25.8	25.4	0.1	0.1	SWW	30
09/08/06	1:30 AM	25.2	25.2	25.0	0.6	2.2	NW	30
09/08/06	2:00 AM	25.1	25.2	25.1	0.3	1.7	NWW	30
09/08/06	2:30 AM	25.1	25.2	24.9	1.1	1.8	W	30
09/08/06	3:00 AM	25.1	25.4	25.0	0.5	1.3	W	30
09/08/06	3:30 AM	25.0	25.1	25.0	0.9	1.1	NWW	30
09/08/06	4:00 AM	25.0	25.2	25.0	1.5	1.7	NWW	30
09/08/06	4:30 AM	25.0	25.0	24.9	0.1	2.3	S	30
09/08/06	5:00 AM	25.0	25.1	24.7	0.6	2.3	W	30
09/08/06	5:30 AM	24.9	25.1	24.8	0.2	0.9	N	30
09/08/06	6:00 AM	24.9	25.0	24.7	0.4	0.7	W	30
09/08/06	6:30 AM	25.0	25.1	24.8	0.5	2.6	NW	30
09/08/06	7:00 AM	26.0	26.1	25.9	0.6	0.7	N	30
09/08/06	7:30 AM	27.0	27.2	26.9	0.3	1.2	SE	30
09/08/06	8:00 AM	28.0	28.4	27.8	1.0	1.8	E	30
09/08/06	8:30 AM	29.0	29.2	29.0	1.7	2.1	N	30
09/08/06	9:00 AM	29.6	29.6	29.3	1.8	3.8	N	30
09/08/06	9:30 AM	30.6	30.9	30.6	1.8	3.0	N	30
09/08/06	10:00 AM	31.0	31.1	30.8	2.2	3.8	N	30
09/08/06	10:30 AM	31.1	31.4	31.1	2.1	2.7	SW	30
09/08/06	11:00 AM	31.1	31.5	30.8	1.7	3.1	SWS	30
09/08/06	11:30 AM	31.5	31.5	31.3	1.7	3.6	SWS	30
09/08/06	12:00 PM	31.1	31.4	30.9	0.8	2.9	SES	30
09/08/06	12:30 PM	31.7	31.7	31.7	1.0	2.5	SW	30
09/08/06	1:00 PM	31.0	31.3	30.8	0.7	1.7	N	30
09/08/06	1:30 PM	32.0	32.1	31.7	0.8	3.1	E	30
09/08/06	2:00 PM	32.2	32.4	32.0	2.5	4.6	NEE	30
09/08/06	2:30 PM	31.9	32.1	31.8	0.8	2.9	NEE	30
09/08/06	3:00 PM	32.0	32.2	31.9	1.6	1.6	S	30
09/08/06	3:30 PM	32.0	32.0	32.0	1.3	2.3	SWS	30
09/08/06	4:00 PM	32.0	32.3	31.8	1.6	2.3	S	30
09/08/06	4:30 PM	31.1	31.5	30.9	1.8	2.2	SWS	30
09/08/06	5:00 PM	31.0	31.1	30.9	1.7	1.8	S	30
09/08/06	5:30 PM	30.8	31.1	30.6	0.8	1.3	SWS	30
09/08/06	6:00 PM	30.0	30.3	29.9	1.7	2.4	SWW	30
09/08/06	6:30 PM	29.7	30.0	29.6	2.3	3.6	SWW	30
09/08/06	7:00 PM	29.0	29.3	28.9	1.9	3.7	W	30
09/08/06	7:30 PM	28.7	28.8	28.6	2.2	3.6	W	30
09/08/06	8:00 PM	28.6	28.9	28.3	1.7	3.9	W	30
09/08/06	8:30 PM	27.4	27.6	27.2	0.8	2.9	NW	30
09/08/06	9:00 PM	27.1	27.5	26.8	0.2	2.0	N	30
09/08/06	9:30 PM	27.1	27.1	27.1	0.7	1.3	NWN	30
09/08/06	10:00 PM	27.1	27.4	27.0	0.9	1.0	NWN	30
09/08/06	10:30 PM	27.1	27.2	26.9	0.8	1.1	SW	30
09/08/06	11:00 PM	27.1	27.3	26.9	2.5	4.2	SWS	30
09/08/06	11:30 PM	27.0	27.1	26.9	1.5	1.5	SWS	30
10/08/06	12:00 AM	26.0	26.0	25.9	4.3	5.8	N	30
10/08/06	12:30 AM	24.1	24.5	23.9	1.9	2.6	SWS	30
10/08/06	1:00 AM	24.1	24.3	23.8	0.1	1.1	SWS	30
10/08/06	1:30 AM	24.1	24.1	23.9	1.6	2.7	W	30
10/08/06	2:00 AM	24.2	24.6	24.0	0.8	3.0	W	30
10/08/06	2:30 AM	24.4	24.7	24.1	1.6	2.5	W	30
10/08/06	3:00 AM	24.4	24.6	24.2	1.4	3.4	NW	30
10/08/06	3:30 AM	24.4	24.8	24.3	1.5	1.8	NW	30
10/08/06	4:00 AM	24.4	24.6	24.3	1.2	1.9	N	30
10/08/06	4:30 AM	24.2	24.4	24.2	2.9	3.7	NW	30
10/08/06	5:00 AM	24.1	24.3	23.9	0.8	2.6	NW	30
10/08/06	5:30 AM	24.2	24.4	24.0	0.8	1.0	NWN	30
10/08/06	6:00 AM	24.2	24.6	24.0	0.8	1.0	NWN	30
10/08/06	6:30 AM	24.3	24.4	24.0	0.3	0.3	N	30
10/08/06	7:00 AM	24.2	24.5	24.0	0.8	2.6	W	30
10/08/06	7:30 AM	24.9	25.0	24.8	1.0	2.8	W	30
10/08/06	8:00 AM	25.0	25.2	24.8	0.8	2.8	W	30
10/08/06	8:30 AM	25.7	26.0	25.5	0.9	1.4	N	30
10/08/06	9:00 AM	25.8	26.1	25.5	0.4	0.8	S	30
10/08/06	9:30 AM	26.9	27.1	26.7	0.4	0.9	E	30
10/08/06	10:00 AM	27.8	27.9	27.8	1.7	1.8	NWN	30
10/08/06	10:30 AM	27.0	27.2	26.7	0.2	0.3	N	30
10/08/06	11:00 AM	26.9	27.2	26.6	2.2	4.2	NWN	30
10/08/06	11:30 AM	26.4	26.5	26.3	1.7	3.4	NWN	30
10/08/06	12:00 PM	26.8	26.8	26.6	2.2	2.6	NWN	30
10/08/06	12:30 PM	28.2	28.5	28.2	2.5	4.7	NWN	30
10/08/06	1:00 PM	27.6	27.8	27.5	2.2	4.0	NE	30
10/08/06	1:30 PM	27.6	27.8	27.4	3.3	4.7	NWN	30
10/08/06	2:00 PM	27.5	27.9	27.4	2.5	2.6	NWN	30
10/08/06	2:30 PM	27.7	27.9	27.5	0.8	3.0	N	30
10/08/06	3:00 PM	28.5	28.9	28.4	0.3	2.2	S	30
10/08/06	3:30 PM	28.9	29.3	28.9	1.7	2.5	SES	30
10/08/06	4:00 PM	28.8	29.1	28.6	0.4	1.4	E	30
10/08/06	4:30 PM	28.7	28.8	28.6	0.8	2.7	S	30
10/08/06	5:00 PM	28.5	28.8	28.5	1.1	2.9	S	30
10/08/06	5:30 PM	28.5	28.8	28.4	0.4	1.8	SWS	30
10/08/06	6:00 PM	28.0	28.2	27.8	0.8	2.7	SEE	30
10/08/06	6:30 PM	27.2	27.5	26.9	0.8	2.3	SWS	30
10/08/06	7:00 PM	27.0	27.3	26.8	0.4	2.5	SE	30
10/08/06	7:30 PM	26.8	27.0	26.8	0.2	2.2	SW	30
10/08/06	8:00 PM	26.8	27.0	26.8	0.2	2.2	NWW	30
10/08/06	8:30 PM	26.8	27.2	26.7	0.2	1.5	N	30
10/08/06	9:00 PM	26.8	26.9	26.6	1.7	2.5	SEE	30
10/08/06	9:30 PM	26.4	26.5	26.3	1.8	3.3	NWN	30
10/08/06	10:00 PM	26.4	26.5	26.1	0.4	1.4	NW	30
10/08/06	10:30 PM	26.2	26.3	26.1	0.8	1.0	NW	30
10/08/06	11:00 PM	26.2	26.5	26.1	0.4	1.8	W	30
10/08/06	11:30 PM	26.0	26.3	25.7	0.6	2.8	NWN	30



Weather information in August 2006

Date (DMY)	Time	Average	Hi	Low	Wind Speed (m/s)		Wind Direction	Period
		Temp	Temp	Temp	Average	Hi		
11/08/06	12:00 AM	26.0	26.4	25.8	0.4	0.8	NWN	30
11/08/06	12:30 AM	26.2	26.5	26.0	1.6	2.3	NWN	30
11/08/06	1:00 AM	26.5	26.7	26.4	1.7	3.8	NWN	30
11/08/06	1:30 AM	26.3	26.6	26.2	4.1	5.1	NE	30
11/08/06	2:00 AM	26.4	26.6	26.2	2.5	4.2	NEN	30
11/08/06	2:30 AM	26.0	26.3	25.8	2.5	4.4	NEN	30
11/08/06	3:00 AM	26.0	26.2	25.8	2.7	4.9	NEN	30
11/08/06	3:30 AM	26.8	27.1	26.6	3.0	4.4	N	30
11/08/06	4:00 AM	26.8	26.9	26.8	3.0	3.4	N	30
11/08/06	4:30 AM	26.8	27.1	26.6	4.2	6.3	NEE	30
11/08/06	5:00 AM	26.9	27.0	26.6	1.7	2.1	E	30
11/08/06	5:30 AM	26.9	27.1	26.8	2.1	3.9	E	30
11/08/06	6:00 AM	26.9	27.2	26.8	2.5	2.8	NE	30
11/08/06	6:30 AM	26.9	27.1	26.8	3.2	4.3	SEE	30
11/08/06	7:00 AM	26.9	27.0	26.6	3.3	4.9	SEE	30
11/08/06	7:30 AM	26.8	26.8	26.6	3.3	4.0	SEE	30
11/08/06	8:00 AM	26.6	26.8	26.6	2.5	3.3	SEE	30
11/08/06	8:30 AM	26.6	26.8	26.5	3.3	3.9	SEE	30
11/08/06	9:00 AM	26.6	26.8	26.3	4.0	4.6	E	30
11/08/06	9:30 AM	26.7	26.7	26.5	2.0	2.6	SEE	30
11/08/06	10:00 AM	26.7	26.8	26.6	2.6	3.4	SEE	30
11/08/06	10:30 AM	26.6	26.9	26.3	3.1	3.8	SEE	30
11/08/06	11:00 AM	27.0	27.4	26.7	3.5	5.4	SEE	30
11/08/06	11:30 AM	27.2	27.3	27.1	3.1	3.4	SEE	30
11/08/06	12:00 PM	27.9	28.2	27.7	3.3	4.3	SEE	30
11/08/06	12:30 PM	28.0	28.4	27.9	2.8	4.0	SEE	30
11/08/06	1:00 PM	28.7	28.9	28.7	1.7	3.3	SEE	30
11/08/06	1:30 PM	28.8	29.0	28.6	2.8	4.9	SEE	30
11/08/06	2:00 PM	28.8	29.1	28.6	2.7	3.2	SEE	30
11/08/06	2:30 PM	28.8	28.9	28.8	2.8	3.5	NEE	30
11/08/06	3:00 PM	28.6	28.7	28.5	3.6	5.7	NE	30
11/08/06	3:30 PM	29.0	29.3	28.9	2.2	3.9	NEE	30
11/08/06	4:00 PM	28.8	29.0	28.6	1.7	3.3	E	30
11/08/06	4:30 PM	28.5	28.6	28.3	2.2	3.3	SE	30
11/08/06	5:00 PM	28.2	28.4	28.1	1.8	3.0	SE	30
11/08/06	5:30 PM	28.0	28.1	27.7	1.7	2.8	NEE	30
11/08/06	6:00 PM	27.8	27.8	27.7	1.7	3.1	NE	30
11/08/06	6:30 PM	27.7	27.9	27.5	1.1	2.5	SE	30
11/08/06	7:00 PM	27.7	27.8	27.6	1.7	1.8	SE	30
11/08/06	7:30 PM	27.6	27.8	27.6	1.6	2.7	NE	30
11/08/06	8:00 PM	27.6	27.6	27.3	1.5	1.9	NE	30
11/08/06	8:30 PM	27.5	27.9	27.5	2.2	4.3	NEE	30
11/08/06	9:00 PM	27.5	27.5	27.5	1.3	2.0	SEE	30
11/08/06	9:30 PM	27.5	27.7	27.3	1.1	1.5	SEE	30
11/08/06	10:00 PM	27.5	27.6	27.4	1.2	2.7	SEE	30
11/08/06	10:30 PM	27.4	27.5	27.4	1.1	1.5	SE	30
11/08/06	11:00 PM	27.4	27.7	27.4	2.2	3.3	SE	30
11/08/06	11:30 PM	27.4	27.6	27.2	1.7	2.1	SE	30
12/08/06	12:00 AM	27.3	27.4	27.0	1.7	1.7	SE	30
12/08/06	12:30 AM	27.3	27.6	27.2	1.7	3.6	SE	30
12/08/06	1:00 AM	27.3	27.7	27.3	1.1	2.3	E	30
12/08/06	1:30 AM	27.3	27.6	27.1	1.1	1.2	SEE	30
12/08/06	2:00 AM	27.3	27.6	27.1	1.1	1.9	SE	30
12/08/06	2:30 AM	27.4	27.6	27.1	1.7	3.8	SE	30
12/08/06	3:00 AM	27.4	27.4	27.3	1.7	2.0	NE	30
12/08/06	3:30 AM	27.4	27.7	27.2	1.7	3.2	SEE	30
12/08/06	4:00 AM	27.4	27.5	27.2	1.1	1.8	E	30
12/08/06	4:30 AM	27.4	27.6	27.4	1.1	2.4	SE	30
12/08/06	5:00 AM	27.4	27.5	27.4	2.1	2.7	SE	30
12/08/06	5:30 AM	27.3	27.4	27.0	1.7	3.0	SE	30
12/08/06	6:00 AM	27.1	27.3	26.8	1.1	1.4	SE	30
12/08/06	6:30 AM	27.1	27.1	27.1	1.7	1.7	SE	30
12/08/06	7:00 AM	27.2	27.4	27.1	1.1	1.3	SE	30
12/08/06	7:30 AM	27.2	27.5	27.1	1.3	3.6	NE	30
12/08/06	8:00 AM	27.6	27.8	27.5	1.7	2.7	NEE	30
12/08/06	8:30 AM	27.9	28.2	27.9	2.4	2.9	NEE	30
12/08/06	9:00 AM	28.7	29.1	28.6	2.8	5.1	N	30
12/08/06	9:30 AM	28.6	28.7	28.5	2.8	4.1	NE	30
12/08/06	10:00 AM	29.0	29.0	28.7	2.2	3.7	NE	30
12/08/06	10:30 AM	29.9	29.9	29.7	1.7	2.2	NE	30
12/08/06	11:00 AM	30.2	30.5	30.2	2.8	4.3	NE	30
12/08/06	11:30 AM	30.5	30.8	30.5	1.5	2.4	NE	30
12/08/06	12:00 PM	30.8	30.8	30.6	2.0	3.0	NE	30
12/08/06	12:30 PM	30.9	31.2	30.7	1.9	2.9	NEE	30
12/08/06	1:00 PM	31.0	31.1	30.8	2.5	2.9	NEE	30
12/08/06	1:30 PM	31.2	31.5	30.9	3.2	3.6	NEE	30
12/08/06	2:00 PM	31.2	31.3	31.1	1.2	3.0	NE	30
12/08/06	2:30 PM	31.0	31.3	31.0	1.9	4.2	NE	30
12/08/06	3:00 PM	30.9	31.0	30.8	2.2	2.7	NE	30
12/08/06	3:30 PM	30.7	31.0	30.6	2.6	2.7	NEE	30
12/08/06	4:00 PM	30.5	30.9	30.3	0.8	1.3	NEE	30
12/08/06	4:30 PM	29.5	29.6	29.2	2.1	2.8	NEE	30
12/08/06	5:00 PM	29.2	29.5	28.9	1.9	3.3	NE	30
12/08/06	5:30 PM	29.0	29.3	28.7	2.3	2.5	NE	30
12/08/06	6:00 PM	28.7	29.0	28.6	2.9	3.4	NEE	30
12/08/06	6:30 PM	28.5	28.8	28.2	2.1	2.7	NEE	30
12/08/06	7:00 PM	28.0	28.1	27.8	2.8	4.2	NEE	30
12/08/06	7:30 PM	27.8	27.9	27.6	3.5	5.2	NEE	30
12/08/06	8:00 PM	27.6	27.8	27.5	2.2	3.5	NEE	30
12/08/06	8:30 PM	27.4	27.6	27.2	1.9	4.1	NE	30
12/08/06	9:00 PM	27.3	27.5	27.0	1.1	2.0	NE	30
12/08/06	9:30 PM	27.0	27.3	26.7	2.1	3.1	NE	30
12/08/06	10:00 PM	26.9	27.2	26.7	2.3	2.9	NE	30
12/08/06	10:30 PM	26.7	27.0	26.5	1.7	2.7	NEE	30
12/08/06	11:00 PM	26.6	26.7	26.4	0.8	1.5	NEE	30
12/08/06	11:30 PM	26.4	26.8	26.2	0.9	2.3	NEE	30



Weather information in August 2006

Date (DMY)	Time	Average	Hi	Low	Wind Speed (m/s)		Wind	Period
		Temp	Temp	Temp	Average	Hi	Direction	
13/08/06	12:00 AM	26.2	26.2	26.1	1.1	1.6	NE	30
13/08/06	12:30 AM	26.1	26.3	26.1	1.6	3.6	NE	30
13/08/06	1:00 AM	25.9	26.1	25.8	1.8	3.7	NE	30
13/08/06	1:30 AM	25.7	25.7	25.5	2.5	2.5	NEE	30
13/08/06	2:00 AM	25.5	25.8	25.3	2.3	4.6	NEE	30
13/08/06	2:30 AM	25.4	25.8	25.1	2.1	3.1	NEE	30
13/08/06	3:00 AM	25.3	25.3	25.3	1.9	3.4	NE	30
13/08/06	3:30 AM	25.2	25.5	25.2	1.4	3.6	NE	30
13/08/06	4:00 AM	25.1	25.2	24.9	1.9	3.0	NEE	30
13/08/06	4:30 AM	25.1	25.2	25.0	2.3	4.2	NE	30
13/08/06	5:00 AM	25.0	25.2	25.0	2.1	3.8	NEE	30
13/08/06	5:30 AM	25.1	25.2	24.9	2.9	4.6	NEE	30
13/08/06	6:00 AM	25.3	25.4	25.2	2.1	4.4	NE	30
13/08/06	6:30 AM	25.5	25.6	25.4	3.2	4.1	NE	30
13/08/06	7:00 AM	25.6	25.8	25.4	2.9	5.1	NE	30
13/08/06	7:30 AM	25.9	25.9	25.8	1.5	2.7	NE	30
13/08/06	8:00 AM	27.2	27.2	27.1	0.5	1.6	NE	30
13/08/06	8:30 AM	27.9	28.0	27.7	0.9	2.7	NEE	30
13/08/06	9:00 AM	28.8	28.9	28.5	1.2	2.0	NEE	30
13/08/06	9:30 AM	29.9	30.3	29.7	2.6	4.4	NEE	30
13/08/06	10:00 AM	30.8	31.0	30.6	2.9	4.5	NEE	30
13/08/06	10:30 AM	31.1	31.1	31.0	3.0	4.8	NEE	30
13/08/06	11:00 AM	31.1	31.2	30.9	2.5	4.2	E	30
13/08/06	11:30 AM	31.0	31.0	30.8	2.6	4.2	NEE	30
13/08/06	12:00 PM	31.2	31.3	31.1	3.3	4.6	NEE	30
13/08/06	12:30 PM	31.0	31.2	30.8	3.3	4.8	NEE	30
13/08/06	1:00 PM	31.5	31.8	31.3	2.7	3.5	NEE	30
13/08/06	1:30 PM	31.0	31.4	30.9	3.3	3.5	NE	30
13/08/06	2:00 PM	31.2	31.3	31.1	2.6	4.4	E	30
13/08/06	2:30 PM	31.0	31.1	30.8	2.3	2.7	NEE	30
13/08/06	3:00 PM	30.5	30.8	30.3	2.5	4.1	NEE	30
13/08/06	3:30 PM	30.0	30.0	29.7	3.3	3.8	NEN	30
13/08/06	4:00 PM	30.1	30.1	29.9	2.3	4.4	NEE	30
13/08/06	4:30 PM	30.0	30.1	30.0	1.7	2.3	SEE	30
13/08/06	5:00 PM	30.0	30.1	30.0	1.4	2.1	SE	30
13/08/06	5:30 PM	29.6	29.7	29.5	1.4	2.1	E	30
13/08/06	6:00 PM	29.6	29.8	29.3	1.0	2.2	SEE	30
13/08/06	6:30 PM	29.0	29.1	28.8	1.7	2.5	SEE	30
13/08/06	7:00 PM	28.7	28.9	28.6	1.5	2.1	SEE	30
13/08/06	7:30 PM	28.0	28.3	27.9	1.7	2.9	E	30
13/08/06	8:00 PM	28.0	28.2	27.9	0.8	1.2	E	30
13/08/06	8:30 PM	28.0	28.2	27.9	1.2	2.1	NE	30
13/08/06	9:00 PM	28.0	28.2	27.9	0.8	0.9	SE	30
13/08/06	9:30 PM	28.0	28.2	27.7	1.9	2.7	SE	30
13/08/06	10:00 PM	28.0	28.1	28.0	0.8	1.0	SE	30
13/08/06	10:30 PM	28.0	28.2	27.9	1.6	2.4	SE	30
13/08/06	11:00 PM	28.0	28.4	28.0	0.9	2.9	SE	30
13/08/06	11:30 PM	28.0	28.0	27.8	1.9	2.4	SE	30
14/08/06	12:00 AM	27.9	27.9	27.7	1.4	1.8	SE	30
14/08/06	12:30 AM	27.7	27.7	27.5	2.0	2.5	SE	30
14/08/06	1:00 AM	27.8	27.9	27.6	1.5	3.8	SE	30
14/08/06	1:30 AM	27.8	27.9	27.6	1.4	3.5	SES	30
14/08/06	2:00 AM	27.2	27.4	26.9	0.7	2.3	SE	30
14/08/06	2:30 AM	27.0	27.3	26.8	1.7	2.1	N	30
14/08/06	3:00 AM	27.0	27.2	26.9	0.1	0.3	NE	30
14/08/06	3:30 AM	27.0	27.1	26.9	1.5	3.3	SE	30
14/08/06	4:00 AM	27.0	27.3	26.9	1.0	1.9	SEE	30
14/08/06	4:30 AM	26.7	26.9	26.5	0.4	2.3	SE	30
14/08/06	5:00 AM	26.8	27.0	26.7	0.8	1.3	SE	30
14/08/06	5:30 AM	26.5	26.6	26.5	0.2	1.1	N	30
14/08/06	6:00 AM	26.5	26.7	26.4	0.8	1.3	SEE	30
14/08/06	6:30 AM	26.6	26.6	26.3	0.8	1.0	E	30
14/08/06	7:00 AM	26.9	27.0	26.9	0.8	0.8	NEN	30
14/08/06	7:30 AM	27.6	27.9	27.5	2.2	3.6	NEN	30
14/08/06	8:00 AM	27.8	27.9	27.6	1.7	3.0	NEN	30
14/08/06	8:30 AM	28.0	28.0	27.8	1.7	3.8	NEN	30
14/08/06	9:00 AM	28.5	28.8	28.5	1.7	2.5	SEE	30
14/08/06	9:30 AM	30.0	30.0	29.8	2.4	2.6	E	30
14/08/06	10:00 AM	29.5	29.6	29.3	2.5	3.2	NE	30
14/08/06	10:30 AM	30.0	30.1	29.7	2.6	3.3	SEE	30
14/08/06	11:00 AM	30.9	31.0	30.7	2.2	3.2	SEE	30
14/08/06	11:30 AM	31.0	31.3	30.8	2.2	3.4	E	30
14/08/06	12:00 PM	30.5	30.5	30.4	3.9	4.3	NE	30
14/08/06	12:30 PM	30.5	30.8	30.4	3.3	5.3	NE	30
14/08/06	1:00 PM	30.7	30.8	30.6	2.8	3.6	NE	30
14/08/06	1:30 PM	30.5	30.7	30.3	3.0	3.1	NEN	30
14/08/06	2:00 PM	30.6	30.6	30.4	3.3	5.3	NEN	30
14/08/06	2:30 PM	31.0	31.0	30.7	2.8	4.7	SE	30
14/08/06	3:00 PM	30.9	31.0	30.7	2.8	3.1	E	30
14/08/06	3:30 PM	30.1	30.3	29.9	2.8	4.3	E	30
14/08/06	4:00 PM	29.9	30.2	29.9	2.3	4.3	N	30
14/08/06	4:30 PM	29.5	29.6	29.4	2.2	2.5	N	30
14/08/06	5:00 PM	29.0	29.2	28.9	1.1	1.3	N	30
14/08/06	5:30 PM	28.5	28.6	28.3	2.1	3.3	SEE	30
14/08/06	6:00 PM	28.5	28.5	28.5	1.1	1.5	SEE	30
14/08/06	6:30 PM	28.0	28.1	27.9	1.1	1.2	SEE	30
14/08/06	7:00 PM	27.7	28.0	27.6	2.2	4.3	SE	30
14/08/06	7:30 PM	27.5	27.7	27.2	2.2	4.1	SE	30
14/08/06	8:00 PM	27.1	27.5	27.0	2.2	3.9	SEE	30
14/08/06	8:30 PM	26.7	27.0	26.7	1.7	1.8	SEE	30
14/08/06	9:00 PM	26.0	26.3	25.9	2.0	4.1	SEE	30
14/08/06	9:30 PM	25.9	25.9	25.8	1.7	1.8	SEE	30
14/08/06	10:00 PM	26.0	26.1	25.7	1.9	2.2	SEE	30
14/08/06	10:30 PM	27.0	27.4	26.8	2.0	3.1	SE	30
14/08/06	11:00 PM	27.0	27.1	26.9	1.8	2.4	SE	30
14/08/06	11:30 PM	27.0	27.1	26.9	2.2	4.4	SE	30

Weather information in August 2006

Date (DMY)	Time	Average	Hi	Low	Wind Speed (m/s)		Wind	Period
		Temp	Temp	Temp	Average	Hi	Direction	
15/08/06	12:00 AM	27.0	27.1	27.0	1.8	2.9	SE	30
15/08/06	12:30 AM	27.0	27.3	26.9	1.1	3.2	SE	30
15/08/06	1:00 AM	27.0	27.2	26.9	1.7	2.3	SE	30
15/08/06	1:30 AM	27.0	27.2	26.9	1.1	1.4	SE	30
15/08/06	2:00 AM	27.0	27.2	26.9	1.7	4.0	SE	30
15/08/06	2:30 AM	27.0	27.1	26.7	1.7	2.9	SE	30
15/08/06	3:00 AM	27.0	27.0	26.9	1.7	1.7	SE	30
15/08/06	3:30 AM	27.0	27.2	27.0	1.4	3.1	SE	30
15/08/06	4:00 AM	27.0	27.0	26.9	1.7	3.8	SE	30
15/08/06	4:30 AM	27.0	27.3	26.7	1.2	2.0	SES	30
15/08/06	5:00 AM	27.0	27.4	27.0	1.1	1.4	SES	30
15/08/06	5:30 AM	26.6	26.9	26.4	1.7	3.9	NE	30
15/08/06	6:00 AM	26.6	26.6	26.5	1.7	2.4	NEN	30
15/08/06	6:30 AM	26.5	26.8	26.3	2.2	4.3	NEN	30
15/08/06	7:00 AM	26.7	26.9	26.4	1.1	2.8	NEN	30
15/08/06	7:30 AM	27.0	27.3	27.0	1.7	2.3	NEN	30
15/08/06	8:00 AM	27.3	27.4	27.3	2.2	2.7	NEN	30
15/08/06	8:30 AM	28.0	28.1	27.8	2.8	3.5	NEN	30
15/08/06	9:00 AM	29.1	29.1	29.1	2.8	4.3	NEN	30
15/08/06	9:30 AM	30.0	30.1	29.9	3.3	5.4	NEN	30
15/08/06	10:00 AM	29.3	29.5	29.1	2.9	3.7	NE	30
15/08/06	10:30 AM	29.9	30.3	29.7	3.3	4.3	E	30
15/08/06	11:00 AM	30.0	30.3	29.8	2.8	4.5	NEE	30
15/08/06	11:30 AM	29.5	29.6	29.4	3.9	5.7	NEE	30
15/08/06	12:00 PM	30.9	31.2	30.8	3.0	3.6	NEE	30
15/08/06	12:30 PM	31.0	31.4	30.9	2.8	5.0	NEE	30
15/08/06	1:00 PM	30.5	30.5	30.3	3.3	3.6	NEE	30
15/08/06	1:30 PM	31.0	31.2	30.8	2.8	2.9	NEE	30
15/08/06	2:00 PM	30.5	30.8	30.4	2.0	2.9	NEE	30
15/08/06	2:30 PM	31.0	31.2	30.9	1.7	1.7	NEE	30
15/08/06	3:00 PM	31.0	31.4	30.9	2.2	3.1	NEE	30
15/08/06	3:30 PM	31.0	31.1	30.9	2.0	3.2	NE	30
15/08/06	4:00 PM	30.7	30.7	30.5	1.6	3.4	NE	30
15/08/06	4:30 PM	30.0	30.3	29.9	2.0	3.2	SE	30
15/08/06	5:00 PM	29.9	30.1	29.8	1.7	2.8	SE	30
15/08/06	5:30 PM	29.6	29.9	29.5	1.8	4.0	SEE	30
15/08/06	6:00 PM	29.0	29.0	28.8	1.9	3.7	SE	30
15/08/06	6:30 PM	28.5	28.8	28.5	2.0	3.5	SE	30
15/08/06	7:00 PM	28.2	28.6	28.0	1.7	2.6	SES	30
15/08/06	7:30 PM	28.0	28.3	27.8	1.2	1.8	SE	30
15/08/06	8:00 PM	27.9	28.2	27.8	1.7	4.0	SEE	30
15/08/06	8:30 PM	27.6	28.0	27.3	2.2	4.5	SEE	30
15/08/06	9:00 PM	27.6	27.8	27.5	1.7	2.7	SEE	30
15/08/06	9:30 PM	27.8	28.1	27.6	1.7	4.0	SE	30
15/08/06	10:00 PM	27.5	27.5	27.4	1.7	2.1	SES	30
15/08/06	10:30 PM	27.1	27.2	27.0	0.6	1.7	E	30
15/08/06	11:00 PM	27.0	27.3	27.0	1.1	2.2	SEE	30
15/08/06	11:30 PM	27.1	27.4	27.1	1.4	2.1	SEE	30
16/08/06	12:00 AM	27.2	27.5	27.0	2.1	4.4	SEE	30
16/08/06	12:30 AM	26.9	27.0	26.8	1.1	1.5	SEE	30
16/08/06	1:00 AM	26.7	27.0	26.6	0.6	1.0	SEE	30
16/08/06	1:30 AM	26.8	27.1	26.8	1.7	2.0	SEE	30
16/08/06	2:00 AM	26.8	26.9	26.6	1.7	1.9	SEE	30
16/08/06	2:30 AM	26.2	26.2	25.9	0.3	1.8	SEE	30
16/08/06	3:00 AM	26.2	26.6	26.0	1.1	1.4	SEE	30
16/08/06	3:30 AM	26.6	26.7	26.4	2.0	4.2	SEE	30
16/08/06	4:00 AM	26.7	27.0	26.5	1.1	2.1	SE	30
16/08/06	4:30 AM	26.7	26.8	26.7	1.8	2.9	SEE	30
16/08/06	5:00 AM	26.5	26.8	26.4	0.6	2.8	SEE	30
16/08/06	5:30 AM	26.0	26.0	25.8	1.1	2.1	SEE	30
16/08/06	6:00 AM	26.2	26.4	25.9	1.7	2.6	SEE	30
16/08/06	6:30 AM	26.7	26.9	26.6	0.6	2.2	SEE	30
16/08/06	7:00 AM	27.0	27.3	26.9	0.6	1.8	SE	30
16/08/06	7:30 AM	27.0	27.3	26.9	1.0	1.9	E	30
16/08/06	8:00 AM	27.5	27.9	27.5	0.1	2.0	N	30
16/08/06	8:30 AM	28.1	28.2	27.9	1.7	3.5	N	30
16/08/06	9:00 AM	29.0	29.1	28.9	1.7	2.1	NEN	30
16/08/06	9:30 AM	29.5	29.7	29.3	2.8	4.5	NE	30
16/08/06	10:00 AM	29.2	29.5	29.0	1.2	3.3	SE	30
16/08/06	10:30 AM	30.0	30.2	30.0	2.4	3.0	E	30
16/08/06	11:00 AM	29.8	29.9	29.7	1.1	2.1	NEN	30
16/08/06	11:30 AM	29.8	30.1	29.5	2.2	2.2	SEE	30
16/08/06	12:00 PM	29.6	30.0	29.5	2.2	3.6	SE	30
16/08/06	12:30 PM	30.0	30.2	29.8	2.2	4.1	SE	30
16/08/06	1:00 PM	31.1	31.5	31.0	2.2	2.8	E	30
16/08/06	1:30 PM	31.8	32.1	31.6	2.8	4.5	S	30
16/08/06	2:00 PM	31.9	32.1	31.8	2.0	3.1	S	30
16/08/06	2:30 PM	31.8	32.0	31.6	1.7	2.4	S	30
16/08/06	3:00 PM	32.0	32.2	31.7	2.1	3.5	S	30
16/08/06	3:30 PM	31.1	31.5	31.1	1.7	3.0	SWS	30
16/08/06	4:00 PM	31.0	31.4	30.8	1.7	3.1	S	30
16/08/06	4:30 PM	30.0	30.3	29.8	2.2	4.2	SWS	30
16/08/06	5:00 PM	29.1	29.3	28.9	2.6	3.1	SWS	30
16/08/06	5:30 PM	28.9	28.9	28.7	2.1	4.3	SWS	30
16/08/06	6:00 PM	28.8	29.1	28.6	1.9	2.8	SWS	30
16/08/06	6:30 PM	28.7	29.0	28.5	1.7	2.4	SWS	30
16/08/06	7:00 PM	28.0	28.1	27.9	1.7	2.0	SWS	30
16/08/06	7:30 PM	27.9	28.2	27.8	1.7	2.7	SWS	30
16/08/06	8:00 PM	27.9	28.2	27.6	1.5	3.7	SWS	30
16/08/06	8:30 PM	28.0	28.3	27.7	1.1	2.6	SWS	30
16/08/06	9:00 PM	27.2	27.3	26.9	1.4	3.4	SWW	30
16/08/06	9:30 PM	27.0	27.2	26.8	1.1	2.8	SWW	30
16/08/06	10:00 PM	26.9	27.0	26.8	1.1	2.7	SW	30
16/08/06	10:30 PM	26.7	27.1	26.6	1.7	3.3	SW	30
16/08/06	11:00 PM	26.7	26.9	26.6	2.1	3.6	SWS	30
16/08/06	11:30 PM	26.7	27.0	26.6	1.1	2.6	SWS	30



Weather information in August 2006

Date (DMY)	Time	Average	Hi	Low	Wind Speed (m/s)		Wind	Period
		Temp	Temp	Temp	Average	Hi	Direction	
17/08/06	12:00 AM	26.9	27.2	26.6	1.6	3.1	SWS	30
17/08/06	12:30 AM	27.0	27.1	26.8	1.7	2.4	SWS	30
17/08/06	1:00 AM	27.0	27.4	26.8	2.0	3.0	SWS	30
17/08/06	1:30 AM	27.0	27.1	26.7	1.9	3.0	SWS	30
17/08/06	2:00 AM	27.0	27.3	26.7	1.7	3.0	SWS	30
17/08/06	2:30 AM	27.0	27.0	26.8	2.1	3.8	SWS	30
17/08/06	3:00 AM	26.7	26.8	26.5	1.1	1.5	SWS	30
17/08/06	3:30 AM	26.8	26.9	26.6	1.6	1.9	SWS	30
17/08/06	4:00 AM	26.4	26.7	26.2	1.4	2.3	SW	30
17/08/06	4:30 AM	26.0	26.2	25.7	1.7	3.1	SWS	30
17/08/06	5:00 AM	26.0	26.4	25.9	1.7	3.3	SWS	30
17/08/06	5:30 AM	26.0	26.2	25.7	1.7	2.3	SWS	30
17/08/06	6:00 AM	26.1	26.4	25.9	1.1	2.8	SWS	30
17/08/06	6:30 AM	26.9	26.9	26.9	1.1	3.1	SWS	30
17/08/06	7:00 AM	26.5	26.7	26.5	0.1	1.5	N	30
17/08/06	7:30 AM	27.3	27.7	27.0	0.1	0.5	E	30
17/08/06	8:00 AM	28.0	28.1	27.7	0.8	1.2	NE	30
17/08/06	8:30 AM	29.2	29.2	28.9	0.8	2.9	NW	30
17/08/06	9:00 AM	29.0	29.1	28.7	1.2	3.4	SWW	30
17/08/06	9:30 AM	30.2	30.5	29.9	0.6	1.0	N	30
17/08/06	10:00 AM	31.0	31.1	31.0	1.7	2.9	E	30
17/08/06	10:30 AM	31.0	31.1	30.8	1.8	3.7	NE	30
17/08/06	11:00 AM	31.2	31.4	31.1	2.2	4.2	NE	30
17/08/06	11:30 AM	31.1	31.3	30.9	2.2	3.3	NE	30
17/08/06	12:00 PM	30.5	30.6	30.5	1.8	3.4	E	30
17/08/06	12:30 PM	31.5	31.6	31.5	1.7	2.0	SEE	30
17/08/06	1:00 PM	32.0	32.4	31.9	1.6	1.9	SE	30
17/08/06	1:30 PM	30.1	30.4	30.0	1.6	2.7	NW	30
17/08/06	2:00 PM	31.6	31.8	31.4	0.6	0.7	N	30
17/08/06	2:30 PM	31.4	31.7	31.4	1.7	3.2	S	30
17/08/06	3:00 PM	32.0	32.3	31.9	1.9	2.8	SWS	30
17/08/06	3:30 PM	32.0	32.3	31.7	1.7	2.1	S	30
17/08/06	4:00 PM	32.0	32.1	31.8	1.5	2.9	S	30
17/08/06	4:30 PM	31.0	31.0	30.8	1.7	3.9	S	30
17/08/06	5:00PM	30.7	30.8	30.5	1.1	1.3	SW	30
17/08/06	5:30 PM	30.0	30.0	29.8	1.7	1.8	SWS	30
17/08/06	6:00PM	30.0	30.1	29.9	1.1	1.9	SWS	30
17/08/06	6:30 PM	29.7	29.7	29.6	3.3	3.9	SWS	30
17/08/06	7:00PM	29.2	29.4	29.1	2.8	3.0	SWS	30
17/08/06	7:30 PM	29.0	29.0	28.7	2.0	2.8	SWS	30
17/08/06	8:00PM	28.8	28.9	28.7	1.6	2.6	SWS	30
17/08/06	8:30 PM	28.3	28.5	28.3	1.4	3.2	SWS	30
17/08/06	9:00PM	28.0	28.1	27.7	1.2	2.1	SWW	30
17/08/06	9:30 PM	27.8	27.9	27.7	1.4	1.6	SWW	30
17/08/06	10:00PM	27.8	28.0	27.5	0.6	2.3	W	30
17/08/06	10:30 PM	27.6	27.9	27.5	1.2	2.0	W	30
17/08/06	11:00PM	27.5	27.5	27.4	0.2	1.5	SWW	30
17/08/06	11:30 PM	27.3	27.5	27.2	0.6	2.9	SWW	30
18/08/06	12:00AM	28.0	28.1	27.9	2.1	3.6	SWW	30
18/08/06	12:30 AM	28.5	28.7	28.4	2.2	3.4	SW	30
18/08/06	1:00AM	28.3	28.5	28.1	1.6	1.9	SW	30
18/08/06	1:30 AM	28.0	28.4	28.0	0.6	1.7	SWS	30
18/08/06	2:00AM	28.0	28.3	27.8	0.6	2.0	SW	30
18/08/06	2:30 AM	27.5	27.5	27.3	1.1	1.9	SWW	30
18/08/06	3:00AM	27.9	27.9	27.8	1.2	1.8	SWW	30
18/08/06	3:30 AM	27.5	27.7	27.3	0.6	2.2	SWW	30
18/08/06	4:00AM	27.2	27.4	26.9	0.2	1.8	SWW	30
18/08/06	4:30 AM	27.5	27.7	27.3	1.7	3.8	SWW	30
18/08/06	5:00AM	28.0	28.3	27.8	2.2	4.4	SW	30
18/08/06	5:30 AM	27.9	27.9	27.9	1.1	2.1	SW	30
18/08/06	6:00AM	27.3	27.4	27.3	0.8	1.4	N	30
18/08/06	6:30 AM	28.2	28.3	28.1	0.6	1.9	W	30
18/08/06	7:00AM	27.9	28.2	27.6	0.1	0.7	N	30
18/08/06	7:30 AM	29.0	29.1	28.8	0.3	0.5	S	30
18/08/06	8:00AM	29.2	29.5	29.2	2.1	2.8	S	30
18/08/06	8:30 AM	30.0	30.0	30.0	0.6	2.3	SW	30
18/08/06	9:00AM	30.0	30.1	29.8	1.1	2.8	SW	30
18/08/06	9:30 AM	30.4	30.6	30.3	1.1	1.3	SWW	30
18/08/06	10:00AM	31.0	31.1	30.9	1.1	2.1	N	30
18/08/06	10:30 AM	31.5	31.8	31.5	1.7	2.6	S	30
18/08/06	11:00AM	30.6	30.6	30.5	0.8	1.7	NWN	30
18/08/06	11:30 AM	30.7	31.1	30.6	0.8	1.4	SWS	30
18/08/06	12:00NN	31.0	31.1	30.8	2.0	2.6	S	30
18/08/06	12:30 PM	32.5	32.6	32.3	2.5	2.8	S	30
18/08/06	1:00 PM	33.0	33.3	32.7	1.7	2.6	SW	30
18/08/06	1:30 PM	33.0	33.0	32.9	1.7	2.8	SWW	30
18/08/06	2:00 PM	33.4	33.6	33.1	1.7	2.2	S	30
18/08/06	2:30 PM	33.6	33.9	33.4	1.9	4.0	S	30
18/08/06	3:00 PM	33.0	33.0	32.9	2.5	4.5	SWS	30
18/08/06	3:30 PM	33.0	33.2	32.8	2.6	3.2	SWS	30
18/08/06	4:00 PM	32.5	32.8	32.4	3.3	4.7	SWS	30
18/08/06	4:30 PM	31.9	31.9	31.8	3.3	3.8	SWS	30
18/08/06	5:00 PM	31.7	31.8	31.7	2.5	3.2	SWS	30
18/08/06	5:30 PM	31.0	31.0	30.8	3.3	4.0	SWS	30
18/08/06	6:00 PM	30.9	30.9	30.6	1.7	3.3	SWS	30
18/08/06	6:30 PM	30.2	30.4	30.1	1.7	3.8	SWS	30
18/08/06	7:00 PM	30.1	30.1	29.8	1.7	3.4	SWS	30
18/08/06	7:30 PM	30.0	30.2	29.9	0.8	1.9	SWS	30
18/08/06	8:00 PM	29.8	30.2	29.7	0.6	1.4	SWS	30
18/08/06	8:30 PM	29.0	29.1	29.0	0.1	0.7	SWS	30
18/08/06	9:00 PM	29.0	29.1	28.8	0.4	1.5	SW	30
18/08/06	9:30 PM	28.6	28.8	28.5	1.7	2.2	SW	30
18/08/06	10:00 PM	29.0	29.1	28.8	0.9	2.1	SW	30
18/08/06	10:30 PM	29.2	29.5	29.1	1.7	2.6	SWS	30
18/08/06	11:00 PM	29.9	30.1	29.7	2.1	3.6	SWS	30
18/08/06	11:30 PM	29.0	29.0	28.8	4.8	6.1	NE	30

Weather information in August 2006

Date (DMY)	Time	Average	Hi	Low	Wind Speed (m/s)		Wind Direction	Period
		Temp	Temp	Temp	Average	Hi		
19/08/06	12:00 AM	25.0	25.3	24.9	3.3	4.3	E	30
19/08/06	12:30 AM	24.0	24.2	23.8	1.7	3.6	NEE	30
19/08/06	1:00 AM	24.0	24.3	23.7	1.5	3.6	E	30
19/08/06	1:30 AM	24.2	24.4	24.0	1.7	3.7	E	30
19/08/06	2:00 AM	24.2	24.5	23.9	0.8	1.4	E	30
19/08/06	2:30 AM	24.2	24.4	24.1	1.1	1.7	E	30
19/08/06	3:00 AM	24.2	24.3	24.0	1.7	1.7	E	30
19/08/06	3:30 AM	24.2	24.4	24.2	1.7	2.5	E	30
19/08/06	4:00 AM	24.2	24.3	24.0	1.2	3.0	NEE	30
19/08/06	4:30 AM	24.2	24.3	24.0	2.5	4.5	E	30
19/08/06	5:00 AM	24.2	24.3	24.1	0.8	3.0	E	30
19/08/06	5:30 AM	24.1	24.5	23.8	1.7	2.6	E	30
19/08/06	6:00 AM	24.1	24.5	23.8	0.8	1.3	NEE	30
19/08/06	6:30 AM	24.1	24.4	24.0	0.8	1.1	E	30
19/08/06	7:00 AM	25.0	25.2	25.0	0.8	2.6	E	30
19/08/06	7:30 AM	25.0	25.3	24.9	0.4	1.2	NEE	30
19/08/06	8:00 AM	25.5	25.5	25.3	0.6	2.3	NEE	30
19/08/06	8:30 AM	27.0	27.1	26.9	1.3	3.5	E	30
19/08/06	9:00 AM	28.0	28.2	27.8	0.4	0.9	E	30
19/08/06	9:30 AM	29.0	29.1	28.8	0.7	2.8	E	30
19/08/06	10:00 AM	29.8	30.1	29.7	0.8	1.2	E	30
19/08/06	10:30 AM	30.5	30.6	30.4	0.9	1.4	NE	30
19/08/06	11:00 AM	30.9	31.2	30.9	1.1	2.2	NEE	30
19/08/06	11:30 AM	31.0	31.2	30.7	1.3	3.5	NEE	30
19/08/06	12:00 PM	31.3	31.3	31.3	1.2	1.6	NE	30
19/08/06	12:30 PM	31.4	31.4	31.2	1.9	2.5	NE	30
19/08/06	1:00 PM	31.2	31.4	31.1	1.2	3.3	NE	30
19/08/06	1:30 PM	31.0	31.1	30.9	0.9	1.0	NE	30
19/08/06	2:00 PM	30.8	31.0	30.7	0.4	1.1	NE	30
19/08/06	2:30 PM	30.6	31.0	30.6	0.8	1.4	NE	30
19/08/06	3:00 PM	30.2	30.5	30.2	0.4	1.9	NEE	30
19/08/06	3:30 PM	29.9	30.0	29.9	1.2	3.3	NEE	30
19/08/06	4:00 PM	29.6	30.0	29.5	1.8	3.6	NEE	30
19/08/06	4:30 PM	29.4	29.4	29.2	1.4	3.1	E	30
19/08/06	5:00 PM	29.1	29.5	28.9	1.2	1.4	E	30
19/08/06	5:30 PM	28.8	28.9	28.7	1.9	3.1	E	30
19/08/06	6:00 PM	28.5	28.7	28.4	0.8	2.2	E	30
19/08/06	6:30 PM	28.1	28.3	27.9	0.6	1.6	E	30
19/08/06	7:00 PM	27.7	28.1	27.5	1.2	2.0	E	30
19/08/06	7:30 PM	27.4	27.7	27.3	1.6	2.1	NEE	30
19/08/06	8:00 PM	27.1	27.4	27.0	1.1	1.1	NEE	30
19/08/06	8:30 PM	26.8	27.1	26.6	0.8	1.5	NE	30
19/08/06	9:00 PM	26.4	26.6	26.2	1.2	2.2	NEE	30
19/08/06	9:30 PM	26.2	26.5	25.9	1.9	2.3	E	30
19/08/06	10:00 PM	25.9	26.0	25.6	1.4	1.5	E	30
19/08/06	10:30 PM	25.6	25.8	25.3	0.5	1.4	E	30
19/08/06	11:00 PM	25.4	25.6	25.3	1.6	2.6	E	30
19/08/06	11:30 PM	25.2	25.3	25.1	0.8	1.6	E	30
20/08/06	12:00 AM	25.0	25.1	24.9	0.1	0.7	E	30
20/08/06	12:30 AM	24.9	25.3	24.8	0.5	1.5	E	30
20/08/06	1:00 AM	24.7	24.8	24.5	0.3	1.4	E	30
20/08/06	1:30 AM	24.6	24.6	24.4	0.9	3.1	NEE	30
20/08/06	2:00 AM	24.4	24.7	24.4	1.1	3.1	NEE	30
20/08/06	2:30 AM	24.3	24.5	24.2	1.9	4.2	NEE	30
20/08/06	3:00 AM	24.1	24.2	23.9	2.1	3.3	NE	30
20/08/06	3:30 AM	24.1	24.4	23.9	1.2	3.0	NE	30
20/08/06	4:00 AM	24.2	24.4	24.0	1.6	2.1	NEE	30
20/08/06	4:30 AM	24.1	24.3	23.9	1.3	1.9	NE	30
20/08/06	5:00 AM	24.0	24.1	23.7	2.9	5.1	NEE	30
20/08/06	5:30 AM	24.1	24.4	23.9	2.5	3.4	NEE	30
20/08/06	6:00 AM	24.2	24.3	24.0	2.4	4.0	E	30
20/08/06	6:30 AM	24.2	24.3	24.0	1.6	2.5	E	30
20/08/06	7:00 AM	24.5	24.9	24.4	2.1	2.3	E	30
20/08/06	7:30 AM	24.9	25.2	24.7	1.2	1.7	E	30
20/08/06	8:00 AM	25.1	25.5	25.0	0.8	1.5	E	30
20/08/06	8:30 AM	25.9	26.0	25.8	0.3	1.7	E	30
20/08/06	9:00 AM	26.1	26.3	26.0	0.5	1.2	E	30
20/08/06	9:30 AM	26.8	27.1	26.5	0.2	0.4	E	30
20/08/06	10:00 AM	27.2	27.6	27.1	0.9	0.9	NEE	30
20/08/06	10:30 AM	28.5	28.7	28.4	1.4	3.0	NEE	30
20/08/06	11:00 AM	29.5	29.6	29.2	1.9	3.1	NE	30
20/08/06	11:30 AM	30.5	30.7	30.4	2.1	3.4	E	30
20/08/06	12:00 PM	31.3	31.4	31.2	2.0	2.2	E	30
20/08/06	12:30 PM	30.0	30.0	29.9	1.1	2.4	E	30
20/08/06	1:00 PM	28.8	29.0	28.5	0.8	2.4	E	30
20/08/06	1:30 PM	26.0	26.2	25.8	3.3	4.0	E	30
20/08/06	2:00 PM	26.7	26.9	26.6	1.7	1.8	E	30
20/08/06	2:30 PM	26.1	26.5	26.0	0.6	2.3	E	30
20/08/06	3:00 PM	26.1	26.2	25.8	1.0	2.0	E	30
20/08/06	3:30 PM	26.1	26.1	25.9	1.0	2.6	E	30
20/08/06	4:00 PM	26.0	26.2	25.7	0.5	2.6	E	30
20/08/06	4:30 PM	26.0	26.0	25.8	0.6	2.3	E	30
20/08/06	5:00 PM	26.0	26.2	25.7	0.6	2.1	E	30
20/08/06	5:30 PM	25.8	26.1	25.8	0.6	1.9	E	30
20/08/06	6:00 PM	25.7	26.1	25.6	1.0	2.9	E	30
20/08/06	6:30 PM	25.5	25.8	25.5	0.9	3.0	E	30
20/08/06	7:00 PM	25.3	25.7	25.2	0.1	1.0	E	30
20/08/06	7:30 PM	25.2	25.5	25.2	0.6	0.8	E	30
20/08/06	8:00 PM	25.0	25.4	24.9	1.1	2.2	E	30
20/08/06	8:30 PM	25.0	25.2	24.8	0.6	2.0	E	30
20/08/06	9:00 PM	25.0	25.2	24.7	0.6	2.7	E	30
20/08/06	9:30 PM	25.0	25.2	24.7	0.6	1.7	E	30
20/08/06	10:00 PM	24.9	25.0	24.7	0.6	1.2	E	30
20/08/06	10:30 PM	24.7	25.0	24.5	0.1	1.0	E	30
20/08/06	11:00 PM	24.9	25.1	24.6	0.1	0.5	E	30
20/08/06	11:30 PM	25.0	25.2	24.8	0.6	1.8	E	30



Weather information in August 2006

Date (DMY)	Time	Average	Hi	Low	Wind Speed (m/s)		Wind Direction	Period
		Temp	Temp	Temp	Average	Hi		
21/08/06	12:00 AM	25.0	25.1	24.7	0.6	1.2	E	30
21/08/06	12:30 AM	25.0	25.3	24.9	0.1	1.8	E	30
21/08/06	1:00 AM	25.0	25.1	24.7	0.1	1.1	E	30
21/08/06	1:30 AM	25.0	25.0	24.8	0.1	0.7	E	30
21/08/06	2:00 AM	25.0	25.2	24.8	0.3	1.4	E	30
21/08/06	2:30 AM	25.0	25.0	25.0	0.3	0.9	E	30
21/08/06	3:00 AM	24.9	25.2	24.8	0.5	1.3	E	30
21/08/06	3:30 AM	24.7	24.8	24.6	0.3	2.6	E	30
21/08/06	4:00 AM	24.3	24.5	24.2	1.5	2.9	E	30
21/08/06	4:30 AM	24.2	24.3	24.0	0.6	0.7	E	30
21/08/06	5:00 AM	24.8	25.0	24.7	0.2	0.9	E	30
21/08/06	5:30 AM	24.3	24.7	24.2	0.3	1.5	E	30
21/08/06	6:00 AM	24.3	24.7	24.1	0.4	0.7	E	30
21/08/06	6:30 AM	24.2	24.6	24.1	1.7	3.9	E	30
21/08/06	7:00 AM	25.0	25.4	24.7	1.5	1.8	E	30
21/08/06	7:30 AM	25.8	25.8	25.5	0.6	2.8	E	30
21/08/06	8:00 AM	26.0	26.1	25.8	2.8	4.4	E	30
21/08/06	8:30 AM	27.2	27.3	27.1	0.9	2.6	E	30
21/08/06	9:00 AM	28.0	28.3	27.8	1.7	2.3	E	30
21/08/06	9:30 AM	29.2	29.5	29.0	1.7	2.7	E	30
21/08/06	10:00 AM	30.0	30.3	29.8	2.2	4.0	E	30
21/08/06	10:30 AM	30.8	30.8	30.7	1.8	2.6	E	30
21/08/06	11:00 AM	31.0	31.0	31.0	2.2	4.2	E	30
21/08/06	11:30 AM	31.3	31.7	31.0	2.0	4.0	E	30
21/08/06	12:00 PM	31.9	32.2	31.7	1.7	2.6	E	30
21/08/06	12:30 PM	31.6	31.7	31.5	2.8	4.2	E	30
21/08/06	1:00 PM	31.5	31.5	31.5	2.9	4.8	E	30
21/08/06	1:30 PM	32.0	32.3	32.0	1.7	3.0	E	30
21/08/06	2:00 PM	31.7	31.8	31.7	1.7	1.8	E	30
21/08/06	2:30 PM	32.0	32.3	32.0	1.7	2.6	E	30
21/08/06	3:00 PM	31.5	31.8	31.5	1.7	2.9	E	30
21/08/06	3:30 PM	31.3	31.5	31.2	2.3	4.4	E	30
21/08/06	4:00 PM	30.9	31.0	30.8	1.1	3.0	E	30
21/08/06	4:30 PM	30.0	30.3	29.7	2.8	3.3	E	30
21/08/06	5:00 PM	29.8	30.1	29.7	2.4	3.1	E	30
21/08/06	5:30 PM	29.1	29.2	29.0	1.1	2.6	E	30
21/08/06	6:00 PM	29.0	29.2	28.9	1.7	3.6	E	30
21/08/06	6:30 PM	28.3	28.7	28.1	1.7	1.8	E	30
21/08/06	7:00 PM	28.0	28.4	27.8	1.2	3.0	E	30
21/08/06	7:30 PM	28.0	28.2	27.7	1.7	3.5	E	30
21/08/06	8:00 PM	27.8	27.9	27.8	1.8	3.1	E	30
21/08/06	8:30 PM	27.7	27.9	27.5	1.1	1.3	E	30
21/08/06	9:00 PM	27.3	27.5	27.2	1.8	2.3	E	30
21/08/06	9:30 PM	27.0	27.3	26.9	1.8	2.0	E	30
21/08/06	10:00 PM	27.0	27.0	26.9	1.7	1.7	E	30
21/08/06	10:30 PM	27.0	27.3	26.8	1.3	2.3	E	30
21/08/06	11:00 PM	27.1	27.2	26.8	1.6	3.9	E	30
21/08/06	11:30 PM	27.3	27.5	27.1	1.1	1.8	E	30
22/08/06	12:00 AM	27.0	27.2	27.0	0.6	1.7	E	30
22/08/06	12:30 AM	26.5	26.5	26.3	2.2	2.9	E	30
22/08/06	1:00 AM	26.8	26.9	26.7	1.6	3.0	E	30
22/08/06	1:30 AM	27.0	27.2	26.9	1.6	3.2	E	30
22/08/06	2:00 AM	26.7	26.8	26.6	0.8	2.9	E	30
22/08/06	2:30 AM	26.5	26.9	26.4	1.8	3.6	E	30
22/08/06	3:00 AM	26.5	26.6	26.3	1.1	1.6	E	30
22/08/06	3:30 AM	25.8	25.9	25.8	0.3	2.5	E	30
22/08/06	4:00 AM	25.2	25.5	25.1	0.3	1.5	E	30
22/08/06	4:30 AM	25.1	25.5	25.0	1.1	2.1	E	30
22/08/06	5:00 AM	25.1	25.2	25.0	0.6	2.6	E	30
22/08/06	5:30 AM	25.0	25.2	24.8	1.0	3.1	E	30
22/08/06	6:00 AM	24.9	25.3	24.9	1.1	3.3	E	30
22/08/06	6:30 AM	24.9	25.0	24.8	0.1	2.0	E	30
22/08/06	7:00 AM	25.0	25.0	24.8	0.6	2.6	E	30
22/08/06	7:30 AM	26.0	26.1	25.8	1.1	2.7	E	30
22/08/06	8:00 AM	27.0	27.1	26.8	1.7	2.9	E	30
22/08/06	8:30 AM	28.0	28.3	27.9	2.5	4.7	E	30
22/08/06	9:00 AM	28.1	28.4	27.9	2.5	3.1	E	30
22/08/06	9:30 AM	29.0	29.2	28.8	3.3	5.5	E	30
22/08/06	10:00 AM	30.0	30.3	29.8	2.8	2.9	E	30
22/08/06	10:30 AM	30.3	30.4	30.0	2.1	3.3	SEE	30
22/08/06	11:00 AM	30.7	30.8	30.6	2.2	4.1	SEE	30
22/08/06	11:30 AM	31.0	31.3	31.0	2.8	3.1	SEE	30
22/08/06	12:00 PM	31.1	31.4	30.9	2.2	3.7	SEE	30
22/08/06	12:30 PM	31.1	31.4	30.8	2.7	4.1	SE	30
22/08/06	1:00 PM	31.7	31.7	31.7	2.2	2.3	SE	30
22/08/06	1:30 PM	31.6	31.8	31.3	2.2	3.1	SE	30
22/08/06	2:00 PM	31.0	31.3	31.0	2.8	4.2	SE	30
22/08/06	2:30 PM	31.0	31.3	30.8	1.7	1.7	SE	30
22/08/06	3:00 PM	31.0	31.1	30.7	2.1	3.0	SE	30
22/08/06	3:30 PM	30.1	30.4	29.8	2.2	3.8	SE	30
22/08/06	4:00 PM	30.6	30.9	30.6	1.1	2.2	SEE	30
22/08/06	4:30 PM	29.0	29.2	29.0	2.8	3.1	SEE	30
22/08/06	5:00 PM	29.0	29.2	28.9	1.3	2.3	SEE	30
22/08/06	5:30 PM	28.7	28.9	28.6	1.1	2.6	SEE	30
22/08/06	6:00 PM	28.0	28.1	27.9	2.1	3.6	SE	30
22/08/06	6:30 PM	27.5	27.8	27.5	2.2	3.8	SE	30
22/08/06	7:00 PM	27.0	27.4	26.8	2.0	3.4	SEE	30
22/08/06	7:30 PM	26.8	26.9	26.8	1.1	2.1	SEE	30
22/08/06	8:00 PM	26.7	26.8	26.6	0.6	2.8	SE	30
22/08/06	8:30 PM	26.5	26.8	26.5	1.3	3.2	SE	30
22/08/06	9:00 PM	26.5	26.6	26.3	1.7	3.8	SE	30
22/08/06	9:30 PM	26.5	26.7	26.5	1.1	2.0	SEE	30
22/08/06	10:00 PM	26.7	26.7	26.7	1.1	1.7	SEE	30
22/08/06	10:30 PM	26.2	26.2	26.0	0.5	1.9	SEE	30
22/08/06	11:00 PM	26.0	26.4	25.9	0.7	2.0	SEE	30
22/08/06	11:30 PM	26.0	26.2	25.9	1.8	4.0	SEE	30

Weather information in August 2006

Date (DMY)	Time	Average	Hi	Low	Wind Speed (m/s)		Wind Direction	Period
		Temp	Temp	Temp	Average	Hi		
23/08/06	12:00 AM	26.0	26.1	25.9	1.2	3.0	SEE	30
23/08/06	12:30 AM	26.5	26.7	26.3	1.1	2.9	SEE	30
23/08/06	1:00 AM	25.5	25.5	25.5	0.1	2.1	SEE	30
23/08/06	1:30 AM	25.1	25.1	25.0	0.1	0.9	SEE	30
23/08/06	2:00 AM	25.1	25.2	25.1	0.1	1.2	SEE	30
23/08/06	2:30 AM	25.0	25.0	25.0	0.2	2.2	E	30
23/08/06	3:00 AM	25.0	25.2	24.8	0.5	2.3	E	30
23/08/06	3:30 AM	25.0	25.0	25.0	0.4	1.5	E	30
23/08/06	4:00 AM	25.0	25.2	24.9	0.2	2.5	N	30
23/08/06	4:30 AM	25.0	25.0	24.9	0.1	0.7	N	30
23/08/06	5:00 AM	25.0	25.2	24.9	0.1	0.6	S	30
23/08/06	5:30 AM	25.0	25.3	24.7	0.6	2.9	N	30
23/08/06	6:00 AM	25.0	25.2	24.9	0.6	1.1	N	30
23/08/06	6:30 AM	25.0	25.2	25.0	0.1	1.9	N	30
23/08/06	7:00 AM	25.9	26.2	25.9	0.1	0.6	N	30
23/08/06	7:30 AM	27.0	27.2	26.7	1.1	2.9	SE	30
23/08/06	8:00 AM	27.5	27.7	27.2	0.9	2.8	E	30
23/08/06	8:30 AM	28.9	29.1	28.7	1.7	3.7	SE	30
23/08/06	9:00 AM	28.9	29.3	28.8	1.7	3.3	E	30
23/08/06	9:30 AM	29.0	29.3	28.8	1.7	3.2	SE	30
23/08/06	10:00 AM	30.0	30.1	29.9	1.7	3.2	NE	30
23/08/06	10:30 AM	30.5	30.8	30.3	2.2	2.7	E	30
23/08/06	11:00 AM	30.7	30.9	30.7	2.7	3.2	E	30
23/08/06	11:30 AM	32.0	32.1	31.9	1.7	1.8	SEE	30
23/08/06	12:00 PM	32.7	33.0	32.6	2.2	2.2	SE	30
23/08/06	12:30 PM	32.0	32.2	32.0	2.3	4.2	SE	30
23/08/06	1:00 PM	31.3	31.3	31.3	2.8	4.8	SE	30
23/08/06	1:30 PM	32.2	32.4	32.0	2.2	3.0	SE	30
23/08/06	2:00 PM	31.7	32.1	31.7	2.3	2.8	SE	30
23/08/06	2:30 PM	31.7	31.9	31.4	2.2	4.2	SEE	30
23/08/06	3:00 PM	31.9	32.3	31.7	2.0	2.5	SEE	30
23/08/06	3:30 PM	31.8	31.9	31.8	1.1	1.4	SEE	30
23/08/06	4:00 PM	30.0	30.2	29.8	2.6	4.3	SE	30
23/08/06	4:30 PM	29.0	29.1	29.0	2.2	3.8	SEE	30
23/08/06	5:00 PM	29.1	29.1	29.0	2.2	3.0	SEE	30
23/08/06	5:30 PM	29.0	29.2	29.0	1.6	3.9	SEE	30
23/08/06	6:00 PM	28.7	28.8	28.5	2.1	3.7	SEE	30
23/08/06	6:30 PM	28.5	28.6	28.4	1.1	2.3	SES	30
23/08/06	7:00 PM	28.0	28.1	27.9	0.6	1.0	SEE	30
23/08/06	7:30 PM	27.9	28.2	27.8	1.7	1.9	SEE	30
23/08/06	8:00 PM	27.6	27.9	27.6	1.2	1.8	SE	30
23/08/06	8:30 PM	28.0	28.3	27.8	1.1	2.7	SES	30
23/08/06	9:00 PM	28.0	28.4	27.9	2.2	2.6	SES	30
23/08/06	9:30 PM	27.1	27.4	27.1	1.5	2.1	SEE	30
23/08/06	10:00 PM	27.9	27.9	27.7	2.2	3.5	SEE	30
23/08/06	10:30 PM	28.0	28.3	27.8	1.9	4.2	SEE	30
23/08/06	11:00 PM	28.0	28.1	27.8	1.7	2.3	E	30
23/08/06	11:30 PM	28.0	28.1	27.9	1.9	3.6	E	30
24/08/06	12:00 AM	28.0	28.3	27.8	2.1	3.0	E	30
24/08/06	12:30 AM	28.0	28.1	27.7	1.9	2.5	E	30
24/08/06	1:00 AM	28.0	28.3	27.8	2.5	4.0	SEE	30
24/08/06	1:30 AM	27.4	27.5	27.3	1.1	2.9	SE	30
24/08/06	2:00 AM	27.0	27.1	26.8	1.4	3.2	SEE	30
24/08/06	2:30 AM	27.1	27.2	27.0	1.1	1.4	SEE	30
24/08/06	3:00 AM	27.5	27.6	27.3	1.6	3.6	SEE	30
24/08/06	3:30 AM	27.5	27.8	27.3	1.7	3.9	SEE	30
24/08/06	4:00 AM	27.9	28.1	27.8	1.1	2.0	SEE	30
24/08/06	4:30 AM	28.0	28.3	27.8	1.7	2.6	SEE	30
24/08/06	5:00 AM	27.9	28.1	27.7	2.1	4.0	SEE	30
24/08/06	5:30 AM	27.9	28.1	27.9	1.1	2.5	SEE	30
24/08/06	6:00 AM	27.2	27.5	27.0	2.3	4.3	S	30
24/08/06	6:30 AM	27.0	27.2	26.8	0.6	1.0	N	30
24/08/06	7:00 AM	27.3	27.4	27.1	0.3	1.3	SEE	30
24/08/06	7:30 AM	27.9	28.1	27.8	2.2	3.9	N	30
24/08/06	8:00 AM	28.0	28.4	27.9	1.7	3.9	E	30
24/08/06	8:30 AM	28.0	28.0	27.9	0.3	2.5	SEE	30
24/08/06	9:00 AM	29.0	29.1	28.8	2.2	4.3	SEE	30
24/08/06	9:30 AM	25.6	25.7	25.4	2.8	3.1	SEE	30
24/08/06	10:00 AM	28.1	28.4	27.9	2.2	4.3	SEE	30
24/08/06	10:30 AM	28.1	28.2	27.9	2.8	4.5	E	30
24/08/06	11:00 AM	28.3	28.5	28.1	2.9	4.5	E	30
24/08/06	11:30 AM	28.7	28.8	28.4	3.3	4.3	E	30
24/08/06	12:00 PM	28.9	29.2	28.6	3.9	5.9	E	30
24/08/06	12:30 PM	28.9	29.0	28.6	2.8	4.2	SEE	30
24/08/06	1:00 PM	29.1	29.3	29.0	2.8	4.6	SEE	30
24/08/06	1:30 PM	29.3	29.6	29.3	2.9	5.0	E	30
24/08/06	2:00 PM	29.3	29.7	29.2	2.6	4.3	E	30
24/08/06	2:30 PM	29.3	29.6	29.1	2.4	4.6	E	30
24/08/06	3:00 PM	29.3	29.7	29.1	2.8	4.1	SEE	30
24/08/06	3:30 PM	30.0	30.3	29.8	2.8	3.9	SEE	30
24/08/06	4:00 PM	29.2	29.5	29.1	1.7	2.7	SEE	30
24/08/06	4:30 PM	28.9	29.1	28.7	2.7	4.8	SEE	30
24/08/06	5:00 PM	28.7	28.9	28.5	3.3	4.9	SEE	30
24/08/06	5:30 PM	28.5	28.8	28.3	1.7	3.0	SEE	30
24/08/06	6:00 PM	28.4	28.6	28.4	3.2	3.4	SEE	30
24/08/06	6:30 PM	28.0	28.3	27.9	3.9	5.3	SE	30
24/08/06	7:00 PM	27.3	27.6	27.2	2.2	3.1	SEE	30
24/08/06	7:30 PM	27.1	27.4	26.9	1.8	3.9	SEE	30
24/08/06	8:00 PM	27.5	27.8	27.3	1.8	3.2	NEN	30
24/08/06	8:30 PM	27.9	28.1	27.8	2.2	4.2	SEE	30
24/08/06	9:00 PM	28.0	28.3	27.8	2.0	4.3	SEE	30
24/08/06	9:30 PM	27.3	27.3	27.1	2.8	3.5	SEE	30
24/08/06	10:00 PM	27.3	27.4	27.1	2.8	4.3	SEE	30
24/08/06	10:30 PM	26.0	26.3	26.0	0.9	1.4	SES	30
24/08/06	11:00 PM	26.0	26.2	25.9	2.2	4.3	E	30
24/08/06	11:30 PM	26.0	26.0	25.7	2.2	3.9	NEE	30



Weather information in August 2006

Date (DMY)	Time	Average	Hi	Low	Wind Speed (m/s)		Wind Direction	Period
		Temp	Temp	Temp	Average	Hi		
25/08/06	12:00 AM	26.0	26.3	25.8	3.2	4.6	E	30
25/08/06	12:30 AM	26.4	26.7	26.1	0.9	3.0	SE	30
25/08/06	1:00 AM	26.1	26.4	26.0	3.2	3.9	E	30
25/08/06	1:30 AM	26.0	26.0	25.7	1.7	3.9	SEE	30
25/08/06	2:00 AM	26.6	26.7	26.6	1.1	2.5	SES	30
25/08/06	2:30 AM	27.0	27.0	27.0	1.0	3.3	SEE	30
25/08/06	3:00 AM	27.0	27.1	26.9	0.8	1.8	E	30
25/08/06	3:30 AM	27.0	27.1	26.7	1.1	2.6	SES	30
25/08/06	4:00 AM	26.9	27.2	26.8	1.1	1.6	SEE	30
25/08/06	4:30 AM	26.7	26.7	26.7	1.1	1.8	SES	30
25/08/06	5:00 AM	26.9	26.9	26.7	1.7	2.4	SES	30
25/08/06	5:30 AM	26.5	26.8	26.3	0.6	2.4	SEE	30
25/08/06	6:00 AM	26.9	27.1	26.6	0.6	1.7	SE	30
25/08/06	6:30 AM	26.9	27.1	26.7	0.6	1.1	SE	30
25/08/06	7:00 AM	27.0	27.0	26.8	0.5	2.5	SE	30
25/08/06	7:30 AM	27.1	27.3	26.9	1.1	1.2	SE	30
25/08/06	8:00 AM	27.0	27.3	26.9	0.6	0.8	SEE	30
25/08/06	8:30 AM	27.5	27.8	27.5	0.6	1.1	SE	30
25/08/06	9:00 AM	27.7	28.0	27.5	1.1	3.2	SE	30
25/08/06	9:30 AM	27.9	28.0	27.9	1.7	3.3	SES	30
25/08/06	10:00 AM	28.2	28.3	28.1	1.9	3.5	SES	30
25/08/06	10:30 AM	28.1	28.3	28.1	1.7	2.9	SES	30
25/08/06	11:00 AM	28.9	29.2	28.8	1.7	2.0	SES	30
25/08/06	11:30 AM	29.4	29.7	29.3	1.7	2.1	S	30
25/08/06	12:00 PM	29.3	29.5	29.2	1.2	3.4	SES	30
25/08/06	12:30 PM	29.3	29.4	29.1	2.7	4.8	SES	30
25/08/06	1:00 PM	29.3	29.4	29.1	2.5	2.9	SES	30
25/08/06	1:30 PM	30.0	30.3	29.9	2.3	3.3	SE	30
25/08/06	2:00 PM	28.0	28.4	27.8	3.9	5.7	W	30
25/08/06	2:30 PM	27.0	27.4	26.9	0.8	1.0	SW	30
25/08/06	3:00 PM	27.7	28.0	27.5	0.6	2.3	N	30
25/08/06	3:30 PM	27.9	28.0	27.6	0.6	2.7	S	30
25/08/06	4:00 PM	27.9	28.1	27.7	0.6	2.3	W	30
25/08/06	4:30 PM	27.9	28.3	27.8	1.1	3.2	N	30
25/08/06	5:00 PM	27.9	28.2	27.6	1.3	1.8	N	30
25/08/06	5:30 PM	27.9	28.0	27.8	0.6	2.2	SE	30
25/08/06	6:00 PM	27.9	28.2	27.6	3.2	4.5	SE	30
25/08/06	6:30 PM	27.7	27.7	27.4	1.1	1.5	SW	30
25/08/06	7:00 PM	26.0	26.3	25.7	0.6	2.1	NW	30
25/08/06	7:30 PM	25.8	26.1	25.6	0.1	0.2	NW	30
25/08/06	8:00 PM	25.9	26.1	25.8	0.6	1.7	NW	30
25/08/06	8:30 PM	25.0	25.3	24.9	0.1	1.2	E	30
25/08/06	9:00 PM	26.1	26.3	26.0	1.2	1.9	E	30
25/08/06	9:30 PM	26.1	26.2	25.9	0.1	1.6	S	30
25/08/06	10:00 PM	26.0	26.2	25.9	3.3	5.1	N	30
25/08/06	10:30 PM	25.9	25.9	25.8	0.6	2.5	S	30
25/08/06	11:00 PM	26.1	26.5	26.0	0.1	1.7	S	30
25/08/06	11:30 PM	26.2	26.6	26.1	0.9	0.9	S	30
26/08/06	12:00 AM	26.7	26.8	26.5	0.2	0.7	S	30
26/08/06	12:30 AM	26.5	26.6	26.5	1.1	1.4	SE	30
26/08/06	1:00 AM	26.5	26.8	26.5	0.7	2.8	SES	30
26/08/06	1:30 AM	26.2	26.2	26.0	2.8	4.8	SE	30
26/08/06	2:00 AM	26.0	26.4	25.8	0.6	0.8	SES	30
26/08/06	2:30 AM	25.3	25.5	25.0	0.8	1.4	SE	30
26/08/06	3:00 AM	25.3	25.6	25.1	1.1	2.9	SE	30
26/08/06	3:30 AM	25.3	25.5	25.1	0.1	1.0	SEE	30
26/08/06	4:00 AM	25.3	25.6	25.2	2.4	3.2	S	30
26/08/06	4:30 AM	25.3	25.7	25.3	0.6	1.9	SEE	30
26/08/06	5:00 AM	25.3	25.5	25.2	0.6	1.9	SE	30
26/08/06	5:30 AM	25.2	25.2	25.2	0.1	2.3	E	30
26/08/06	6:00 AM	25.2	25.5	25.0	0.1	1.5	NEE	30
26/08/06	6:30 AM	25.3	25.4	25.0	0.1	1.4	E	30
26/08/06	7:00 AM	25.9	26.1	25.9	0.1	1.3	SE	30
26/08/06	7:30 AM	26.5	26.8	26.3	1.6	3.5	SES	30
26/08/06	8:00 AM	27.0	27.2	26.7	2.0	2.8	SE	30
26/08/06	8:30 AM	28.0	28.3	28.0	2.2	3.1	SES	30
26/08/06	9:00 AM	28.5	28.6	28.3	2.2	3.9	SES	30
26/08/06	9:30 AM	29.1	29.4	29.0	2.1	3.2	S	30
26/08/06	10:00 AM	29.1	29.2	28.8	2.0	3.2	S	30
26/08/06	10:30 AM	29.3	29.6	29.2	1.9	3.6	SE	30
26/08/06	11:00 AM	29.4	29.7	29.2	2.1	4.0	SE	30
26/08/06	11:30 AM	29.6	29.9	29.3	2.5	3.3	SES	30
26/08/06	12:00 PM	30.2	30.5	29.9	1.9	3.4	SES	30
26/08/06	12:30 PM	30.5	30.8	30.3	1.7	3.0	SES	30
26/08/06	1:00 PM	30.8	30.9	30.7	1.8	3.5	SE	30
26/08/06	1:30 PM	30.6	30.8	30.5	1.1	2.3	SE	30
26/08/06	2:00 PM	30.3	30.4	30.1	1.5	2.6	SE	30
26/08/06	2:30 PM	29.9	30.1	29.9	1.9	3.9	SE	30
26/08/06	3:00 PM	29.5	29.8	29.3	2.5	4.1	SES	30
26/08/06	3:30 PM	29.2	29.5	29.2	2.4	2.6	SES	30
26/08/06	4:00 PM	28.9	29.3	28.7	1.2	3.4	SES	30
26/08/06	4:30 PM	28.7	29.1	28.5	1.9	2.1	SES	30
26/08/06	5:00 PM	28.5	28.7	28.4	0.8	2.0	SE	30
26/08/06	5:30 PM	28.2	28.4	28.1	0.2	1.5	SE	30
26/08/06	6:00 PM	28.0	28.3	28.0	0.9	2.5	SE	30
26/08/06	6:30 PM	28.0	28.3	27.9	1.3	3.2	SE	30
26/08/06	7:00 PM	27.9	28.2	27.7	1.8	3.1	S	30
26/08/06	7:30 PM	27.9	28.0	27.9	1.7	2.8	S	30
26/08/06	8:00 PM	27.8	28.0	27.7	1.2	3.0	S	30
26/08/06	8:30 PM	27.5	27.8	27.3	1.9	2.5	SE	30
26/08/06	9:00 PM	27.4	27.8	27.3	2.1	4.0	SE	30
26/08/06	9:30 PM	27.4	27.4	27.3	2.6	2.6	SE	30
26/08/06	10:00 PM	27.1	27.3	27.1	2.4	3.6	S	30
26/08/06	10:30 PM	26.9	27.3	26.8	2.5	4.2	S	30
26/08/06	11:00 PM	26.7	27.0	26.4	2.2	3.9	SE	30
26/08/06	11:30 PM	26.4	26.5	26.1	1.8	1.9	S	30



Weather information in August 2006

Date (DMY)	Time	Average	Hi	Low	Wind Speed (m/s)		Wind	Period
		Temp	Temp	Temp	Average	Hi	Direction	
27/08/06	12:00 AM	26.3	26.5	26.1	1.5	3.6	S	30
27/08/06	12:30 AM	26.2	26.5	25.9	1.9	3.7	S	30
27/08/06	1:00 AM	26.1	26.4	25.9	2.3	4.2	SE	30
27/08/06	1:30 AM	26.2	26.4	26.0	2.7	4.2	SEE	30
27/08/06	2:00 AM	25.9	25.9	25.8	1.3	2.7	SEE	30
27/08/06	2:30 AM	25.8	26.2	25.5	1.9	2.8	SEE	30
27/08/06	3:00 AM	25.9	26.2	25.7	1.6	3.7	SEE	30
27/08/06	3:30 AM	25.8	26.1	25.7	2.2	3.1	SEE	30
27/08/06	4:00 AM	25.7	25.8	25.4	1.9	3.9	SE	30
27/08/06	4:30 AM	25.7	25.8	25.6	2.5	4.8	SE	30
27/08/06	5:00 AM	25.7	26.1	25.6	1.2	1.3	SEE	30
27/08/06	5:30 AM	25.9	26.2	25.7	1.9	2.4	E	30
27/08/06	6:00 AM	25.9	26.0	25.7	2.1	2.7	E	30
27/08/06	6:30 AM	26.1	26.2	25.8	2.9	3.6	E	30
27/08/06	7:00 AM	26.3	26.6	26.1	1.8	1.9	SEE	30
27/08/06	7:30 AM	26.7	26.8	26.7	1.2	1.4	SEE	30
27/08/06	8:00 AM	27.2	27.2	26.9	1.9	2.8	E	30
27/08/06	8:30 AM	27.3	27.7	27.0	1.2	3.1	E	30
27/08/06	9:00 AM	27.5	27.6	27.5	0.8	1.4	E	30
27/08/06	9:30 AM	27.9	28.2	27.7	1.2	1.2	SEE	30
27/08/06	10:00 AM	27.9	28.2	27.6	0.7	1.9	SEE	30
27/08/06	10:30 AM	28.5	28.8	28.2	1.9	2.7	SEE	30
27/08/06	11:00 AM	29.1	29.5	28.8	2.2	2.6	E	30
27/08/06	11:30 AM	29.2	29.5	29.0	2.5	3.0	E	30
27/08/06	12:00 PM	30.1	30.5	30.1	0.9	2.8	SEE	30
27/08/06	12:30 PM	29.0	29.0	29.0	0.8	2.7	SEE	30
27/08/06	1:00 PM	30.0	30.1	29.7	1.7	4.0	E	30
27/08/06	1:30 PM	30.0	30.1	29.9	1.7	2.4	E	30
27/08/06	2:00 PM	29.8	30.0	29.5	1.7	2.0	SEE	30
27/08/06	2:30 PM	29.5	29.8	29.3	1.7	3.5	SEE	30
27/08/06	3:00 PM	29.5	29.8	29.3	1.2	2.9	SEE	30
27/08/06	3:30 PM	28.0	28.3	28.0	3.3	4.4	SEE	30
27/08/06	4:00 PM	27.9	28.3	27.9	0.8	1.0	SEE	30
27/08/06	4:30 PM	27.7	27.9	27.6	1.7	4.0	SEE	30
27/08/06	5:00 PM	27.8	28.2	27.8	1.7	2.5	SEE	30
27/08/06	5:30 PM	27.9	28.1	27.7	1.7	2.9	SEE	30
27/08/06	6:00 PM	27.8	27.8	27.5	0.8	1.1	SEE	30
27/08/06	6:30 PM	27.2	27.4	27.0	1.5	1.6	SEE	30
27/08/06	7:00 PM	27.1	27.2	26.9	1.7	2.8	SEE	30
27/08/06	7:30 PM	27.2	27.3	27.1	0.9	2.2	SEE	30
27/08/06	8:00 PM	27.0	27.1	26.9	1.6	2.3	SEE	30
27/08/06	8:30 PM	26.5	26.6	26.3	0.8	2.8	SEE	30
27/08/06	9:00 PM	26.7	26.9	26.6	0.7	2.2	SEE	30
27/08/06	9:30 PM	26.6	26.9	26.4	0.8	2.7	SEE	30
27/08/06	10:00 PM	26.2	26.3	26.0	0.8	1.3	SEE	30
27/08/06	10:30 PM	26.2	26.3	26.0	0.7	1.5	SEE	30
27/08/06	11:00 PM	26.0	26.2	25.8	1.6	1.9	SEE	30
27/08/06	11:30 PM	26.0	26.3	25.7	1.7	3.0	NE	30
28/08/06	12:00 AM	25.9	26.0	25.8	1.3	2.9	NE	30
28/08/06	12:30 AM	26.0	26.0	26.0	0.8	2.3	SEE	30
28/08/06	1:00 AM	25.3	25.3	25.1	0.3	1.0	SEE	30
28/08/06	1:30 AM	27.0	27.3	26.8	1.7	1.8	SEE	30
28/08/06	2:00 AM	27.0	27.0	26.8	1.7	2.3	SEE	30
28/08/06	2:30 AM	27.0	27.2	26.7	2.9	5.1	SEE	30
28/08/06	3:00 AM	27.0	27.1	26.7	2.5	3.0	SEE	30
28/08/06	3:30 AM	27.0	27.3	26.7	1.7	3.4	SEE	30
28/08/06	4:00 AM	26.8	26.9	26.7	1.7	2.7	SEE	30
28/08/06	4:30 AM	26.6	26.7	26.3	1.1	3.1	SEE	30
28/08/06	5:00 AM	26.6	26.7	26.5	1.2	1.3	SEE	30
28/08/06	5:30 AM	26.9	27.2	26.7	1.0	2.2	SEE	30
28/08/06	6:00 AM	27.0	27.1	26.8	1.7	2.4	SEE	30
28/08/06	6:30 AM	27.5	27.5	27.4	0.8	2.1	SEE	30
28/08/06	7:00 AM	27.4	27.7	27.3	0.8	2.0	SEE	30
28/08/06	7:30 AM	27.6	27.6	27.4	0.7	1.7	SEE	30
28/08/06	8:00 AM	28.4	28.6	28.3	1.1	1.7	SEE	30
28/08/06	8:30 AM	28.9	28.9	28.7	1.9	4.0	E	30
28/08/06	9:00 AM	29.0	29.1	28.9	0.8	1.1	E	30
28/08/06	9:30 AM	29.3	29.5	29.1	0.9	1.1	E	30
28/08/06	10:00 AM	29.4	29.4	29.4	1.5	3.8	NE	30
28/08/06	10:30 AM	29.7	29.8	29.6	2.5	3.1	N	30
28/08/06	11:00 AM	29.5	29.5	29.4	3.3	4.6	N	30
28/08/06	11:30 AM	28.0	28.2	27.8	3.2	5.0	E	30
28/08/06	12:00 PM	26.9	27.2	26.7	3.1	4.0	NEN	30
28/08/06	12:30 PM	27.5	27.6	27.3	1.6	2.2	NE	30
28/08/06	1:00 PM	27.1	27.4	26.8	0.6	2.4	SE	30
28/08/06	1:30 PM	28.0	28.3	27.8	1.7	3.8	NEN	30
28/08/06	2:00 PM	27.2	27.2	27.0	4.2	5.5	NEN	30
28/08/06	2:30 PM	28.6	28.9	28.4	1.9	2.3	NEN	30
28/08/06	3:00 PM	28.9	29.1	28.8	2.5	4.2	NE	30
28/08/06	3:30 PM	29.3	29.4	29.0	1.8	3.2	NE	30
28/08/06	4:00 PM	29.0	29.3	28.7	2.4	3.0	NE	30
28/08/06	4:30 PM	28.4	28.6	28.2	1.7	3.9	NE	30
28/08/06	5:00 PM	28.4	28.8	28.2	1.7	2.0	NE	30
28/08/06	5:30 PM	27.2	27.6	27.1	1.2	3.1	NEN	30
28/08/06	6:00 PM	26.8	26.8	26.5	0.8	1.8	N	30
28/08/06	6:30 PM	26.4	26.6	26.2	1.7	3.9	NEN	30
28/08/06	7:00 PM	26.5	26.8	26.2	0.8	1.2	NEN	30
28/08/06	7:30 PM	26.5	26.5	26.4	1.7	2.5	N	30
28/08/06	8:00 PM	26.3	26.5	26.1	1.1	1.5	N	30
28/08/06	8:30 PM	26.1	26.2	26.0	0.9	1.3	N	30
28/08/06	9:00 PM	26.1	26.4	25.9	0.8	2.6	N	30
28/08/06	9:30 PM	26.1	26.1	25.8	0.8	2.6	N	30
28/08/06	10:00 PM	26.1	26.4	25.9	1.7	3.0	N	30
28/08/06	10:30 PM	26.1	26.2	26.0	2.4	3.2	NWN	30
28/08/06	11:00 PM	26.1	26.2	26.1	0.8	3.1	NE	30
28/08/06	11:30 PM	26.2	26.4	26.0	1.3	2.6	NE	30

Weather information in August 2006

Date (DMY)	Time	Average	Hi	Low	Wind Speed (m/s)		Wind	Period
		Temp	Temp	Temp	Average	Hi	Direction	
29/08/06	12:00 AM	26.5	26.6	26.4	0.9	2.5	N	30
29/08/06	12:30 AM	26.5	26.8	26.4	1.2	2.6	SE	30
29/08/06	1:00 AM	27.0	27.3	26.9	1.7	2.8	SEE	30
29/08/06	1:30 AM	27.0	27.0	26.8	2.3	3.6	SEE	30
29/08/06	2:00 AM	26.8	26.8	26.8	1.5	1.5	SEE	30
29/08/06	2:30 AM	27.0	27.1	26.8	1.7	2.2	SEE	30
29/08/06	3:00 AM	27.2	27.6	27.0	1.7	3.7	E	30
29/08/06	3:30 AM	27.1	27.3	27.1	1.7	2.7	SEE	30
29/08/06	4:00 AM	27.1	27.2	26.8	2.3	3.1	SEE	30
29/08/06	4:30 AM	27.1	27.1	27.1	2.2	4.3	SEE	30
29/08/06	5:00 AM	27.1	27.2	26.9	1.7	2.0	SEE	30
29/08/06	5:30 AM	27.1	27.3	26.9	1.7	2.9	SEE	30
29/08/06	6:00 AM	26.0	26.1	25.8	2.3	3.8	SEE	30
29/08/06	6:30 AM	26.0	26.1	25.9	2.5	4.4	SEE	30
29/08/06	7:00 AM	26.0	26.2	25.8	0.8	0.9	SEE	30
29/08/06	7:30 AM	26.5	26.6	26.3	0.8	1.5	SWS	30
29/08/06	8:00 AM	28.3	28.3	28.1	2.5	4.8	SEE	30
29/08/06	8:30 AM	28.9	29.1	28.8	1.7	2.8	SEE	30
29/08/06	9:00 AM	28.7	29.0	28.6	1.7	3.1	SEE	30
29/08/06	9:30 AM	29.7	29.8	29.5	1.7	2.0	SEE	30
29/08/06	10:00 AM	30.3	30.4	30.2	2.5	4.2	SEE	30
29/08/06	10:30 AM	30.0	30.0	29.9	2.5	4.2	SWS	30
29/08/06	11:00 AM	29.7	29.9	29.5	2.1	3.2	SWS	30
29/08/06	11:30 AM	29.6	29.8	29.3	2.8	3.7	SWS	30
29/08/06	12:00 PM	30.0	30.3	29.9	2.1	2.5	SWS	30
29/08/06	12:30 PM	31.0	31.4	30.8	2.2	3.0	SWS	30
29/08/06	1:00 PM	30.9	31.2	30.7	1.9	2.3	SWS	30
29/08/06	1:30 PM	31.1	31.3	30.9	3.3	4.5	SWS	30
29/08/06	2:00 PM	31.2	31.4	31.0	2.2	4.4	SWS	30
29/08/06	2:30 PM	29.9	30.0	29.9	2.2	2.7	SWS	30
29/08/06	3:00 PM	29.3	29.3	29.2	2.2	2.8	SWS	30
29/08/06	3:30 PM	30.0	30.1	29.9	2.2	4.1	SWS	30
29/08/06	4:00 PM	29.5	29.5	29.2	2.2	4.4	SWS	30
29/08/06	4:30 PM	29.3	29.3	29.2	1.1	1.6	SWS	30
29/08/06	5:00 PM	29.1	29.2	29.1	1.8	2.0	SWS	30
29/08/06	5:30 PM	28.9	29.1	28.8	1.7	2.9	SW	30
29/08/06	6:00 PM	28.5	28.7	28.2	2.2	2.9	SW	30
29/08/06	6:30 PM	28.4	28.8	28.4	1.7	2.8	SW	30
29/08/06	7:00 PM	28.0	28.1	27.8	1.7	3.7	SEE	30
29/08/06	7:30 PM	27.5	27.8	27.2	0.4	0.9	SEE	30
29/08/06	8:00 PM	27.5	27.7	27.2	0.9	1.0	N	30
29/08/06	8:30 PM	27.0	27.3	26.8	0.6	2.0	E	30
29/08/06	9:00 PM	26.8	27.0	26.6	0.6	1.3	SEE	30
29/08/06	9:30 PM	26.9	27.1	26.6	0.6	0.8	SEE	30
29/08/06	10:00 PM	26.8	27.1	26.7	1.1	1.8	SEE	30
29/08/06	10:30 PM	26.8	26.8	26.6	1.3	1.4	SEE	30
29/08/06	11:00 PM	26.8	27.2	26.6	0.6	1.4	NW	30
29/08/06	11:30 PM	26.8	27.1	26.6	0.3	2.5	SEE	30
30/08/06	12:00 AM	26.8	26.9	26.7	0.6	2.1	NEE	30
30/08/06	12:30 AM	26.8	27.0	26.6	0.2	1.6	NW	30
30/08/06	1:00 AM	27.0	27.4	26.9	0.4	2.7	SW	30
30/08/06	1:30 AM	27.0	27.3	26.9	0.6	1.2	SW	30
30/08/06	2:00 AM	26.1	26.4	26.0	1.6	3.0	SW	30
30/08/06	2:30 AM	26.1	26.1	26.0	1.2	3.2	SW	30
30/08/06	3:00 AM	26.1	26.2	25.8	0.6	1.6	SW	30
30/08/06	3:30 AM	26.0	26.4	25.8	1.8	1.8	SW	30
30/08/06	4:00 AM	26.1	26.1	25.8	0.6	2.4	SWW	30
30/08/06	4:30 AM	25.9	25.9	25.7	0.7	1.1	SWWW	30
30/08/06	5:00 AM	25.8	25.8	25.5	1.0	1.4	SW	30
30/08/06	5:30 AM	25.7	25.7	25.6	0.6	1.3	SWW	30
30/08/06	6:00 AM	25.6	25.9	25.4	0.2	1.7	SWWW	30
30/08/06	6:30 AM	25.8	26.1	25.8	0.1	0.9	N	30
30/08/06	7:00 AM	26.1	26.3	26.0	0.1	0.4	SEE	30
30/08/06	7:30 AM	28.0	28.2	27.9	0.6	2.5	SE	30
30/08/06	8:00 AM	28.8	28.8	28.7	1.0	1.7	SWS	30
30/08/06	8:30 AM	29.0	29.3	29.0	0.3	0.8	S	30
30/08/06	9:00 AM	30.0	30.3	29.7	0.6	1.2	SE	30
30/08/06	9:30 AM	30.5	30.8	30.4	1.7	3.4	SWS	30
30/08/06	10:00 AM	30.0	30.3	29.8	1.1	2.3	SWWW	30
30/08/06	10:30 AM	31.1	31.4	31.0	2.2	3.4	SW	30
30/08/06	11:00 AM	32.0	32.3	31.9	2.8	4.2	SWS	30
30/08/06	11:30 AM	32.0	32.4	32.0	3.0	3.2	SWS	30
30/08/06	12:00 PM	32.0	32.2	31.8	1.2	1.4	SWS	30
30/08/06	12:30 PM	32.9	33.2	32.7	2.8	3.5	SWS	30
30/08/06	1:00 PM	32.6	32.9	32.5	2.8	3.0	SWS	30
30/08/06	1:30 PM	32.6	32.9	32.5	2.8	4.3	SWS	30
30/08/06	2:00 PM	32.5	32.8	32.3	2.2	2.3	SWS	30
30/08/06	2:30 PM	32.8	33.2	32.6	2.8	3.7	SWS	30
30/08/06	3:00 PM	32.2	32.6	32.0	2.8	4.5	SWS	30
30/08/06	3:30 PM	32.0	32.3	31.9	1.9	3.7	SWS	30
30/08/06	4:00 PM	30.5	30.9	30.2	1.7	3.9	S	30
30/08/06	4:30 PM	30.0	30.3	29.9	1.2	1.3	SW	30
30/08/06	5:00 PM	29.8	29.8	29.6	2.2	4.2	SW	30
30/08/06	5:30 PM	29.1	29.1	28.8	1.7	3.4	SW	30
30/08/06	6:00 PM	29.0	29.3	28.9	2.2	2.6	SW	30
30/08/06	6:30 PM	28.7	29.1	28.5	2.2	4.2	SW	30
30/08/06	7:00 PM	28.0	28.2	27.9	1.1	3.2	SW	30
30/08/06	7:30 PM	28.1	28.3	28.0	2.2	3.0	SW	30
30/08/06	8:00 PM	28.0	28.0	27.8	1.7	4.0	SW	30
30/08/06	8:30 PM	28.0	28.3	27.8	2.2	2.3	SWS	30
30/08/06	9:00 PM	27.6	27.7	27.5	2.8	3.9	SWS	30
30/08/06	9:30 PM	27.9	28.0	27.6	2.8	3.9	SWS	30
30/08/06	10:00 PM	28.0	28.4	27.9	2.8	4.8	SWS	30
30/08/06	10:30 PM	27.5	27.9	27.2	2.7	4.3	SWS	30
30/08/06	11:00 PM	27.4	27.5	27.3	2.8	4.4	SWS	30
30/08/06	11:30 PM	27.0	27.2	26.7	1.6	2.7	SWS	30



Weather information in August 2006

Date (DMY)	Time	Average	Hi	Low	Wind Speed (m/s)		Wind	Period
		Temp	Temp	Temp	Average	Hi	Direction	
31/08/06	12:00 AM	27.0	27.3	26.8	1.1	2.0	SWS	30
31/08/06	12:30 AM	27.0	27.2	27.0	1.0	2.2	SWS	30
31/08/06	1:00 AM	27.0	27.4	26.9	1.7	1.8	SWS	30
31/08/06	1:30 AM	27.0	27.1	27.0	1.2	2.0	SWS	30
31/08/06	2:00 AM	27.1	27.3	27.0	1.4	2.2	SW	30
31/08/06	2:30 AM	27.5	27.5	27.5	1.1	2.0	SW	30
31/08/06	3:00 AM	27.5	27.5	27.4	1.8	3.7	SWS	30
31/08/06	3:30 AM	27.5	27.5	27.4	1.7	2.0	SW	30
31/08/06	4:00 AM	27.2	27.4	27.0	1.7	3.6	SW	30
31/08/06	4:30 AM	27.5	27.6	27.5	1.7	2.5	SW	30
31/08/06	5:00 AM	27.1	27.4	26.9	0.8	2.6	SW	30
31/08/06	5:30 AM	27.0	27.4	26.9	1.1	2.9	SW	30
31/08/06	6:00 AM	27.0	27.1	26.9	0.6	2.6	SW	30
31/08/06	6:30 AM	27.7	28.0	27.5	0.8	2.8	NWW	30
31/08/06	7:00 AM	27.6	27.7	27.4	0.6	2.6	S	30
31/08/06	7:30 AM	27.9	28.2	27.8	1.7	2.1	W	30
31/08/06	8:00 AM	28.9	29.0	28.7	1.1	1.5	N	30
31/08/06	8:30 AM	29.8	29.9	29.7	2.1	3.0	N	30
31/08/06	9:00 AM	30.0	30.2	30.0	1.1	3.4	SE	30
31/08/06	9:30 AM	30.5	30.7	30.2	1.6	2.9	SE	30
31/08/06	10:00 AM	30.9	31.1	30.7	0.9	1.4	SEE	30
31/08/06	10:30 AM	31.4	31.6	31.2	0.5	1.8	SEE	30
31/08/06	11:00 AM	32.0	32.2	31.8	0.9	2.0	SE	30
31/08/06	11:30 AM	32.9	33.1	32.9	1.2	3.1	SE	30
31/08/06	12:00 PM	33.2	33.4	33.0	1.9	3.5	SEE	30
31/08/06	12:30 PM	33.3	33.6	33.2	1.5	3.2	SEE	30
31/08/06	1:00 PM	33.1	33.4	33.1	1.9	2.6	SEE	30
31/08/06	1:30 PM	32.8	32.9	32.8	2.2	4.2	E	30
31/08/06	2:00 PM	32.5	32.8	32.5	1.9	2.2	E	30
31/08/06	2:30 PM	32.3	32.4	32.2	2.4	4.3	E	30
31/08/06	3:00 PM	32.0	32.3	31.7	1.2	3.2	SEE	30
31/08/06	3:30 PM	31.7	32.0	31.5	1.9	2.0	SEE	30
31/08/06	4:00 PM	31.5	31.6	31.4	2.5	4.1	E	30
31/08/06	4:30 PM	31.2	31.3	31.1	2.2	2.3	E	30
31/08/06	5:00 PM	31.0	31.0	30.8	2.9	3.0	E	30
31/08/06	5:30 PM	30.9	31.0	30.8	2.1	3.3	SEE	30
31/08/06	6:00 PM	30.5	30.5	30.2	1.9	2.2	SEE	30
31/08/06	6:30 PM	30.1	30.2	29.8	2.1	3.6	SEE	30
31/08/06	7:00 PM	29.7	30.1	29.5	1.5	3.6	SEE	30
31/08/06	7:30 PM	29.1	29.4	28.8	1.0	1.4	E	30
31/08/06	8:00 PM	28.7	28.8	28.7	1.6	3.9	E	30
31/08/06	8:30 PM	28.5	28.6	28.4	1.0	1.9	E	30
31/08/06	9:00 PM	28.2	28.4	27.9	1.9	3.9	E	30
31/08/06	9:30 PM	28.1	28.4	28.0	1.3	2.4	SEE	30
31/08/06	10:00 PM	28.0	28.3	28.0	1.2	2.9	SEE	30
31/08/06	10:30 PM	27.9	27.9	27.7	1.9	3.8	SEE	30
31/08/06	11:00 PM	27.8	28.1	27.6	2.1	2.4	SEE	30
31/08/06	11:30 PM	27.6	27.8	27.5	2.9	4.8	SEE	30



Appendix F

Event-Action Plans

EVENT/ACTION PLAN FOR AIR QUALITY EXCEEDANCE

EVENT		ACTION			Contractor
		ET Leader	IC(E)	ER	
ACTION LEVEL					
1. Exceedance for one sample	<ol style="list-style-type: none"> 1. Identify source, investigate the causes of exceedance and propose remedial measures 2. Inform ER, IC(E) and Contractor 3. Repeat measurement to confirm finding 4. Increase monitoring frequency to daily 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by the ET 2. Check contractor's working method 	<ol style="list-style-type: none"> 1. Notify Contractor 		<ol style="list-style-type: none"> 1. Rectify any unacceptable practise 2. Amend working methods if appropriate
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 1. Identify source, investigate the causes of exceedance and propose remedial measures 2. Inform IC(E) and Contractor 3. Repeat measurements to confirm finding 4. Increase monitoring frequency to daily 5. Discuss with IC(E) and Contractor on remedial actions 6. If exceedance continues, arrange meeting with IC(E) and ER. 7. If exceedance stops, cease additional monitoring 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by the ET Leader 2. Check the Contractor's working method 3. Discuss with ET and Contractor on possible remedial measures 4. Advise the ER on the effectiveness of the proposed remedial measures 5. Supervise implementation of remedial measures 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing 2. Notify the Contractor 3. Ensure remedial measures properly implemented 		<ol style="list-style-type: none"> 1. Submit proposals for remedial actions to IC(E) within 3 working days of notification 2. Implement the agreed proposals 3. Amend proposal if appropriate
LIMIT LEVEL					
1. Exceedance for one sample	<ol style="list-style-type: none"> 1. Identify source, investigate the causes of exceedance and propose remedial measures 2. Inform ER, Contractor and EPD 3. Repeat measurement to confirm finding 4. Increase monitoring frequency to daily 5. Assess the effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by the ET Leader 2. Check Contractor's working method 3. Discuss with ET and Contractor on possible remedial measures 4. Advise the ER on the effectiveness of the proposed remedial measures 5. Supervise implementation of remedial measures 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing 2. Notify the Contractor 3. Ensure remedial measures properly implemented 		<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance 2. Submit proposals for remedial actions to IC(E) within 3 working days of notification 3. Implement the agreed proposals 4. Amend proposal if appropriate.

EVENT/ACTION PLAN FOR AIR QUALITY EXCEEDANCE

EVENT	ACTION			Contractor
	ET Leader	IC(E)	ER	
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 1. Identify source, investigate the causes of exceedance and propose remedial measures 2. Notify IC(E), ER, EPD and Contractor 3. Repeat measurement to confirm finding 4. Increase monitoring frequency to daily 5. Carry out analysis of contractor's working procedures to determine possible mitigation to be implemented 6. Arrange meeting with IC(E) and ER to discuss the remedial actions to be taken 7. Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results 8. If exceedance stops, cease additional monitoring 	<ol style="list-style-type: none"> 1. Discuss amongst ER, ET and Contractor on the potential remedial actions 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly 3. Supervise the implementation of remedial measures 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing 2. Notify Contractor 3. In consultation with the IC(E), agree with the Contractor on the remedial measures to be implemented 4. Ensure remedial measures are properly implemented 5. If exceedances continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedances 2. Submit proposals for remedial actions to IC(E) within 3 working days of notification 3. Implement the agreed proposals 4. Resubmit proposals if problem still not under control 5. Stop the relevant activity of works as determined by the ER until the exceedance is abated

EVENT/ACTION PLAN FOR NOISE EXCEEDANCE

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

EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE

Event	ACTION		
	ET Leader	Contractor	ER IEC
<p>Action level being exceeded by one sampling day</p>	<ol style="list-style-type: none"> 1. Identify source(s) of impact; 2. Repeat in-situ measurement to confirm findings; 3. Notify Contractor in writing within 24 hours of identification of the exceedance 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Carry out investigation 6. Report the results of investigation to the Contractor within 3 working days of identification of exceedance and advise contractor if exceedance is due to contractor's construction works 7. Discuss mitigation measures with Contractor if exceedance is due to the construction works within 4 working days 8. Repeat measurement on next day of exceedance if exceedance is due to the construction works 	<ol style="list-style-type: none"> 1. Notify the ER and IEC in writing within 24 hours of identification of exceedance 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Submit investigation report to IEC and ER within 3 working days of the identification of an exceedance 5. Consider changes of working method if exceedance is due to the construction works 6. Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER if exceedance is due to the construction works within 4 working days of identification of an exceedance 7. Implement the agreed mitigation measures within reasonable time scale 	<ol style="list-style-type: none"> 1. Notify EPD and other relevant governmental agencies in writing within 24 hours of the identification of the exceedance 2. Discuss with IEC, ET and Contractor on the proposed mitigation measures; 3. Require contractor to propose remedial measures for the analysed problem if related to the construction works 4. Ensure remedial measures are properly implemented 5. Assess the effectiveness of the mitigation measure
			<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET 2. Confirm ET assessment if exceedance is due / not due to the works 3. Discuss with ET, ER and Contractor on the mitigation measures 4. Review contractor's mitigation measures whenever necessary to ensure their effectiveness and advise the ER accordingly 5. Supervise the implementation of mitigation measures

EVENT AND ACTION PLAN FOR WATER QUALITY

	ACTION			
Event	ET Leader	Contractor	ER	IEC
<p>Action level being exceeded by more than one consecutive sampling days</p>	<ol style="list-style-type: none"> 1. Identify source(s) of impact; 2. Repeat in-situ measurement to confirm findings 3. Notify Contractor in writing within 24 hours of identification 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Carry out investigation 6. Report the results of investigation to the Contractor within 3 working days of identification of exceedance and advise contractor if exceedance is due to contractor's construction works 7. Discuss mitigation measures with IEC and Contractor within 4 working of identification of an exceedance 8. Ensure mitigation measures are implemented; 9. Prepare to increase the monitoring frequency to daily; 10. Repeat measurement on next day of exceedance. 	<ol style="list-style-type: none"> 1. Notify IEC and ER in writing within 24 hours of identification of exceedance 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Consider changes of working methods; 5. Submit the results of the investigation to IEC and ER within 3 working days of the identification of an exceedance 6. Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 4 working days of identification of an exceedance 7. Implement the agreed mitigation measures within reasonable time scale 	<ol style="list-style-type: none"> 1. Notify EPD and other relevant governmental agencies in writing within 24 hours of the identification of the exceedance 2. Discuss with IEC, ET and Contractor on the proposed mitigation measures; 3. Require contractor to propose remedial measures for the analysed problem if related to the construction works 4. Ensure remedial measures are properly implemented 5. Assess the effectiveness of the mitigation measure 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET 2. Confirm ET assessment if exceedance is due / not due to the works 3. Discuss with ET, ER and Contractor on the mitigation measures. 4. Review contractor's mitigation measures whenever necessary to ensure their effectiveness and advise the ER accordingly 5. Assess the effectiveness of the implemented mitigation measures.

EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE

Event	ACTION			IEC
	ET Leader	Contractor	ER	
Limit level being exceeded by one sampling day	<ol style="list-style-type: none"> 1. Repeat in-situ measurement to confirm findings; 2. Identify source(s) of impact; 3. Notify Contractor in writing within 24 hours of identification of the exceedance 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Carry out investigation 6. Report the results of investigation to the Contractor within 3 working days of identification of exceedance and advise contractor if exceedance is due to contractor's construction works 7. Discuss mitigation measures with IEC, ER and Contractor within 4 working of identification of an exceedance 8. Ensure mitigation measures are implemented; 9. Increase the monitoring frequency to daily until no exceedance of Limit Level. 	<ol style="list-style-type: none"> 1. Notify IEC and ER in writing; within 24 hours of the identification of the exceedance 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Consider changes of working methods; 5. Submit the results of the investigation to IEC and ER within 3 working days of the identification of an exceedance 6. Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 4 working days of the identification of an exceedance 7. Implement the agreed mitigation measures within reasonable time scale 	<ol style="list-style-type: none"> 1. Notify EPD and other relevant governmental agencies in writing within 24 hours of identification of exceedance 2. Discuss with IEC, ET and Contractor on the proposed mitigation measures; 3. Request Contractor to critically review the working methods; 4. Ensure remedial measures are properly implemented 5. Assess the effectiveness of the implemented mitigation measures. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET 2. Confirm ET assessment if exceedance is due / not due to the works 3. Discuss with ET, ER and Contractor on the mitigation measures. 4. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly. 5. Assess the effectiveness of the implemented mitigation measures

EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE

Event	ACTION		
	ET Leader	Contractor	ER
Limit Level being exceeded by more than one consecutive sampling days	<ol style="list-style-type: none"> 1. Repeat in-situ measurement to confirm findings; 2. Identify source(s) of impact; 3. Notify Contractor in writing within 24 hours of identification of the exceedance 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Carry out investigation 6. Report the results of investigation to the Contractor within 3 working days of identification of exceedance and advise contractor if exceedance is due to contractor's construction works 7. Discuss mitigation measures with IEC, ER and Contractor; 8. Ensure mitigation measures are implemented; 9. Increase the monitoring frequency to daily until no exceedance of Limit Level for two consecutive days. 	<ol style="list-style-type: none"> 1. Notify ER and IEC in writing within 24 hours of the identification of the exceedance and 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Consider changes of working methods; 8. Submit the results of the investigation to IEC and ER within 3 working days of the identification of an exceedance 5. Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 4 working days; 6. Implement the agreed mitigation measures within reasonable time scale 7. As directed by the Engineer, to slow down or to stop all or part of the marine work or construction activities. 	<ol style="list-style-type: none"> 1. Notify EPD and other relevant governmental agencies in writing within 24 hours of identification of exceedance 2. Discuss with IEC, ET and Contractor on the proposed mitigation measures; 3. Request Contractor to critically review the working methods; 6. Ensure remedial measures are properly implemented 4. Assess the effectiveness of the implemented mitigation measures; 5. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine work until no exceedance of Limit Level.
			IEC

1. Check monitoring data submitted by ET
2. Confirm ET assessment if exceedance is due / not due to the works
3. Discuss with ER, ET and Contractor on the mitigation measures.
4. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly.
5. Assess the effectiveness of the implemented mitigation measures.



Appendix G

Construction Programme

GCC Clause 16 Programme

KEYDATES & SUMMARY

KD-001	Contract Commencement	0	30DEC05 A	100
KD-002	Commencement of the Works	0	31DEC05 A	100
PRELIMINARIES				
1-0100	Take over Principal Site Office for the Engineer	0	31DEC05 A	100
1-0200	Provision of Transport for the Engineer	7	30DEC05 A	05JAN06 A
1-1100	Contractor's Submissions	28	30DEC05 A	26JAN06 A
1-1200	Setup of Environmental Team for EM&A Monitoring	7	30DEC05 A	05JAN06 A
1-1300	Temporary Accommodation for Contractor	21	31DEC05 A	20JAN06 A

OPERATION OF PUBLIC FILL RECEPTION FACILITIES

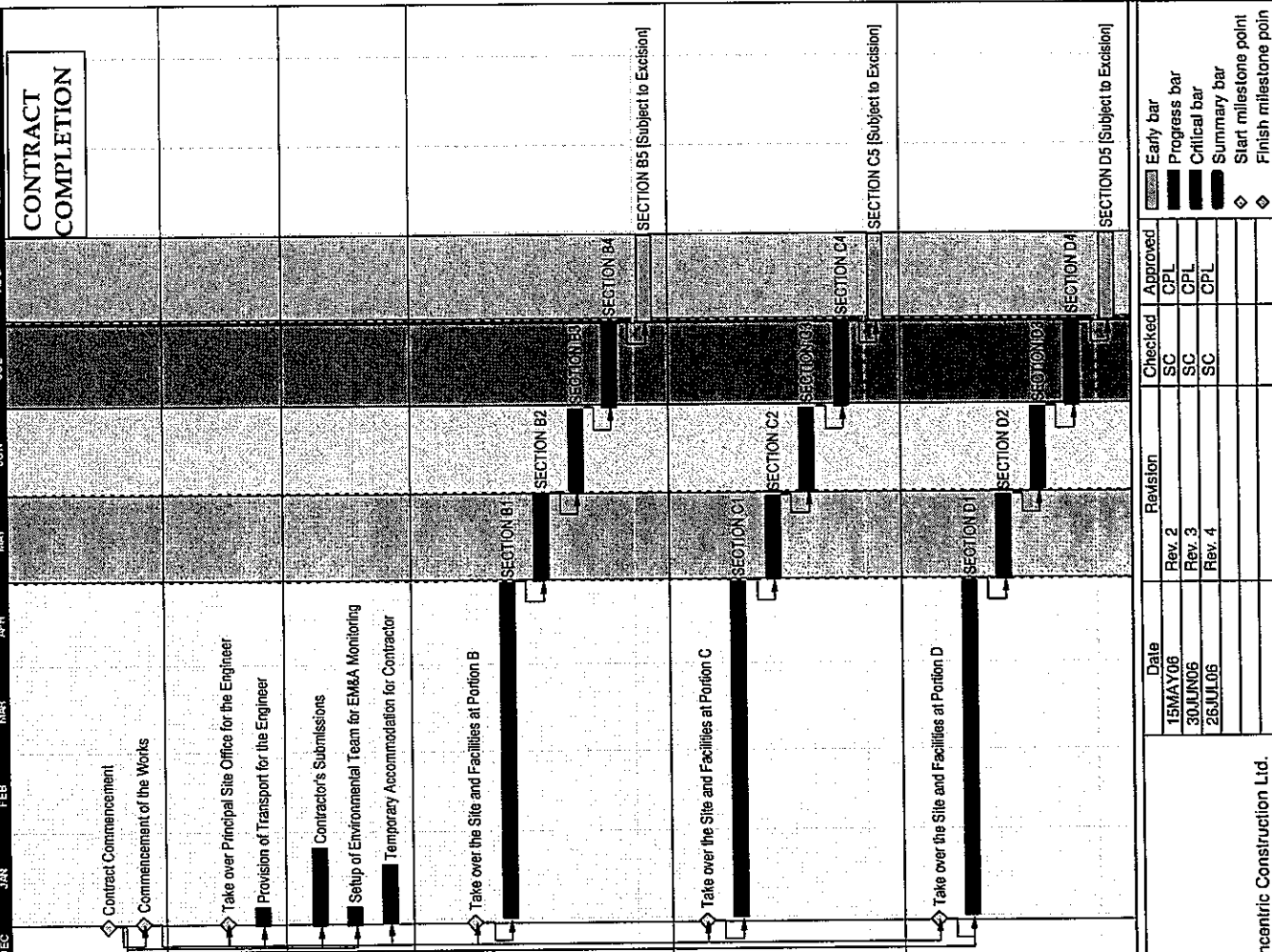
B1-0000	Take over the Site and Facilities at Portion B	0	31DEC05 A	100
B1-0100	SECTION B1	121	01JAN06 A	30APR06 A
B2-0100	SECTION B2	31	01MAY06 A	31MAY06 A
B3-0100	SECTION B3	30	01JUN06 A	30JUN06 A
B4-0100	SECTION B4	31	01JUL06 A	31JUL06 A
B5-0100	SECTION B5 [Subject to Excision]	31	31JUL06	30AUG06

OPERATION OF QUARRY

C1-0000	Take over the Site and Facilities at Portion C	0	31DEC05 A	100
C1-0100	SECTION C1	121	01JAN06 A	30APR06 A
C2-0100	SECTION C2	31	01MAY06 A	30MAY06 A
C3-0100	SECTION C3	30	01JUN06 A	30JUN06 A
C4-0100	SECTION C4	31	01JUL06 A	31JUL06 A
C5-0100	SECTION C5 [Subject to Excision]	31	31JUL06	30AUG06

OPERATION OF QUARRY AND RECEPTION FACILITIES

D1-0000	Take over the Site and Facilities at Portion D	0	31DEC05 A	100
D1-0100	SECTION D1	121	01JAN06 A	30APR06 A
D2-0100	SECTION D2	31	01MAY06 A	30MAY06 A
D3-0100	SECTION D3	30	01JUN06 A	30JUN06 A
D4-0100	SECTION D4	31	01JUL06 A	31JUL06 A
D5-0100	SECTION D5 [Subject to Excision]	31	31JUL06	30AUG06



CEDD Contract No. CV/2005/12
 Operation of Public Fill Reception Facilities at
 Tseung Kwan O Area 137, Quarry Bay and Mui Wo

Main Contractor: Concentric Construction Ltd.



Appendix H

IEC's Site Audit Records

Agreement No. 42/2002 Fill Bank at Tseung Kwan O Area 137 - Investigation

Date of Site Audit:	25/08/2006	Time of Site Audit:	2:10 PM
Site Auditor:	Lyn Ip	Phase of Works:	Operational
Checked by:	Ben Ridley		

Checklist (FB)	Yes	No	Remarks
Operational Phase			
Fugitive Dust Emission			
Have dust control/mitigation measures been implemented to ensure full protection of the nearby ASRs?	x		
Are all installed air pollution control systems and measures operated and/or implemented in accordance with their design merits?	x		
A buffer zone of at least 100m shall be maintained between the edge of the stockpiling area and the nearest ASRs at the TKO Industrial Estate. Within the buffer zone, no dusty material shall be stockpiled and no loading/unloading and similar activities should be allowed.	x		
Truck speed limit shall be limited to within 10km per hour.	x		
Is the designated site main haul route (paved)?	x		
Are water lorries and/or road sweepers used in dust suppression? Frequency of watering at least four times per day (as per PS Clause 1.76)? The frequency shall be increased when the weather is dry, when the truckloads are high, and for haul roads located within 100m from the northern boundary of the site.		x	Not observed at time of site inspection as rain activity recorded just prior to commencing inspection.
All dusty fill material shall be sprayed with water or a dust suppression chemical prior to loading, unloading or transfer so as to maintain the fill material wet, except for situations where the moisture content of the dusty material is a matter of concern.	x		Not observed at time of site inspection as rain activity recorded just prior to commencing inspection.
Frequent watering (at least three times per day) of the worksites with active dusty operations. The frequency shall be increased when the weather is dry.	x		Not observed at time of site inspection as rain activity recorded just prior to commencing inspection.
Vehicle washing facilities including high pressure water jet installed at the existing exit shall be maintained and operated by designated staff to ensure that these dust control measures are being used.	x		
Before leaving the fill bank, every vehicle shall be washed to remove any dusty materials from its body and wheels.	x		
Trucks carrying dusty load entered to the site shall be sprayed with water once the impervious sheeting covering the load is removed.	x		
Have the temporary slope surfaces, especially those facing to the north of the site, been covered (tarpaulin sheeting or other impermeable sheeting), or sprayed (with water or a dust suppression chemical) or protected by other methods approved by CEDD?			Finished Slopes in Portions A,B,G,H and I have been hydroseeded.
Final slope surfaces, especially those facing to the north of the site, shall be treated by compaction, followed by hydroseeding, vegetation plating or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface stabiliser approved by CEDD.			Finished Slopes in Portions A,B,G,H and I have been hydroseeded.
Note: Public fill at the stockpiling area should be handled to avoid segregation, deterioration, erosion or instability of the material, especially for the stockpiling surface facing to the north of the site.			
Fixed Noise Impact			
Have the approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) been adopted?	x		

Agreement No. 42/2002 Fill Bank at Tseung Kwan O Area 137 - Investigation

Checklist (FB)	Yes	No	Remarks
Note: The noise standards specified in the Technical Memorandum for the Assessment of Noise From Places Other Than Domestic Premises, Public Places or Construction Sites shall be met.			
Water Quality			
The existing/realigned Intercepting channels and the sand/silt removal facilities should be used and maintained.		x	See observation 1.
Temporary intercepting drains should be used at the stockpiling area to divert polluted stormwater to the intercepting channels. Earth bunds and sand bag barriers shall be used to assist the diversion of polluted stormwater to the silt removal facilities.		x	In some areas, collected rainwater diverted to open (disused areas) and left to soak away.
Has a buffer distance of at least 100m been maintained between the boundary of the public fill stockpiling area and the sea front?	x		
Are materials properly covered when there is any chance for the materials to be washed away?	x		
Temporary slope surfaces shall be covered as far as practicable with tarpaulin sheets or other impermeable sheeting or protected by other methods approved by CED especially when a rainstorm is imminent or forecast.			Hydroseeded slopes in Portions A, B, G, H and I
Final slope surfaces shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shotcrete, latex, vinyl, bitumen, or other suitable surface stabiliser approved by CED to prevent the washing away of stockpiled material.			Hydroseeded slopes in Portions A, B, G, H and I
Existing and newly constructed catchpits, sand and silt removal facilities and intercepting channels should be maintained, and the deposited silt and grit should be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.		x	See observation 2.
A wheel washing bay should be provided at the site exit and wash-water should have sand and silt settled out or removed before being discharged into storm drains.	x		
Is the section of construction road between the wheel washing bay the public road paved with concrete, bituminous materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains?	x		
Sewage from toilets should be discharged into a foul sewer, or chemical toilets should be provided.	x		
Should the use of chemical toilets be necessary, these should be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities.	x		
Are the grease traps in the canteen kitchens put into use and effective ?			N/A
If no communal sewer can be provided, has the sewage generated from the workforce at the site offices been diverted to septic tanks and regularly removed by using vacuum tankers.	x		Discharged to DP4 as per discharge licence.
The drainage system provided at car parking areas should be installed with oil interceptors in addition to sand/silt removal facilities. Has regular cleaning of the system been carried out?	x		
Has disturbance to seabed sediments and undue turbidity from vessel movement or propeller wash been minimized?	x		
Barges should not be filled to a level which may cause the overflow of material during loading or transportation. Barge effluents should be properly collected and treated before disposal.	x		
Is foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the vicinity of the barging point? Are these due to work activities?	x		See observation 3.
Have silt curtains been provided at the outward side of the basin near the barging point throughout the operational phase when there is public fill intake by barges (after Dec 2003)?	x		See observation 4

Agreement No. 42/2002 Fill Bank at Tseung Kwan O Area 137 - Investigation

Checklist (FB)	Yes	No	Remarks
Has a waste collection vessel been deployed to remove floating debris on the sea near the fill bank for proper disposal?	x		But not observed at the time of site inspection.
Note: Effluent discharged from the site shall meet the relevant discharge limits specified in the Technical Memorandum Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters.			
Landfill Gas Hazard			
Are gas detection equipment and appropriate breathing apparatus available and used when workers entering confined spaces or trenches deeper than 2 metres?	x		
A Safety Officer/Supervisor should be present on site throughout the operational stage.	x		
Has the Safety Officer/Supervisor been provided with intrinsically safe portable instrument(s), appropriately calibrated and capable of measuring the gases in the ranges as recommended in the EIA Report?	x		
Has a LFG monitoring programme been formulated by the Safety Officer/Supervisor or by a qualified person?	x		
Has periodic/routine monitoring been conducted during ground-works, in all excavations, and works in confined spaces, if any?	x		
Landscape and Visual			
Does the design of the fill bank and platform heights adopted allow the fill bank to fit into the general topography of the surrounding land? Straight edged slopes should be avoided.	x		
The maximum stockpiling height at the fill bank shall be limited to a maximum of +35.2mPD.	x		
Surface of outer slopes of the fill bank shall preferably be hydroseeded or covered with geo-textile matting of appropriate colour (e.g. dark green/brown) once completed.	x		
The barging point and the C&DMSF at the fill bank shall not be in operation from 7:00pm to 8:00am daily to avoid potential visual impact from glare.	x		To 11pm as per latest EP.
Other Environmental Factors			
C&D waste sorted from mixed C&D material at the C&DMSF shall be removed from the temporary buffer storage area on a daily basis and transfer to SENT landfill for disposal.	x		
Environmental Monitoring and Audit			
Is a log book maintained by the ET?	x		
At the time of site audit, was any monitoring underway?	x		Water Quality
If yes, what parameters are being monitored and were the correct procedures adopted?			In-situ - Turbidity, pH, DO, DOS; Lab - SS
Have any mitigation measures been implemented as a result of exceedance of Action-Limit Levels? If so, do they appear to be effective?			N/A

Agreement No. 42/2002 Fill Bank at Tseung Kwan O Area 137 - Investigation

Observations

Issue	Action Taken (to be filled in by Contractor)	Date Completed (to be filled in by Contractor)
<p>1) The Contractor was reminded to clear the mud, grasses and debris in all the trapezoidal channels.</p> <p>2) Chamber A to C need to be cleared of debris and dead vegetation.</p> <p>3) Floating waste (plastic bottles, plastic bags, paper, etc.) were observed in the bay of the Barge Handling Area. No waste collection vessel was noted in the waters at the time of the site audit.</p> <p>4) The silt curtain (left side of entrance to barge handling area) had still not been replaced as at the time of the site audit. The Contractor is requested to repair the silt curtains as soon as possible. During re-installation, the Contractor should ensure the separation between the silt curtains is 80m in accordance with CEDD's drawing FM10035-16. In addition, the silt curtains should be properly secured to weights at the seabed bottom.</p> <p>5) As advised by the Contractor, the Maintenance Workshop has now been reestablished near the upstream point of DP4 (close to the southern discharge channel from SENT Landfill). The Contractor has been requested to review the appropriateness of locating the works area so close to the discharge channel. If there are no other alternative locations, the Contractor has been reminded to provide proper chemical waste storage for the area to prevent any spills into the adjacent channel.</p> <p>6) Wheels/tyres continue to be stored near to the water filling station and left uncovered. Moreover, a pile of 8-9 disused tyres were left on the bare soil in Portion J. The Contractor was reminded to cover the wheels/tyres by impervious sheeting to avoid the accumulation of stagnant water and to dispose of the disused tyres in Portion J to also prevent accumulation of stagnant water.</p> <p>7) During off-loading of material from the barges, some material has fallen onto the edge of the seawall in front of the concrete blocks). The material should be removed immediately to prevent material from washing out into the marine waters. If possible, the concrete blocks should also be pushed outwards towards the seawall edge to prevent recurrence of this situation.</p>		



Appendix I

Weekly ET's Site Inspection Record

CEDD Contract No.: CV/2005/12
Project: Fill Bank at Tseung Kwan O Area 137

Inspection Date : 04 August 2006
Time : 10:15

Weather : Sunny/Fine/Cloudy/Overcast/Drizzle/Rain/Storm/Hazy
Wind : Calm/Light/Breeze/Strong

Temperature : 28°C
Humidity : High/Moderate/Low

Environmental Checklist

	Implementation Stages*			Remark
	Yes	No	N/A	
Fugitive Dust Emission				
▪ Dust control / mitigation measures shall be provided to prevent dust nuisance.	✓			
▪ A buffer zone of at least 100m shall be maintained between the edge of the stockpiling area and the nearest ASRs at the TKO Industrial Estate. Within the buffer zone, no dusty material shall be stockpiled and no loading / unloading and similar activities should be allowed.	✓			
▪ Water sprays shall be provided and used to dampen materials.	✓			
▪ Regular cleaning and watering the site shall be provided to minimize the fugitive dust emissions.	✓			
▪ All vehicles shall be restrict to a maximum speed of 10 km per hour.	✓			
▪ Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin.	✓			
▪ The designated site main haul road shall be paved or regular watering.	✓			Refer to item 4
▪ Frequent watering of work site shall be at least three times per day.	✓			
▪ Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site.	✓			
▪ Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank.	✓			
▪ The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD.	✓			
▪ Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydrosseding, vegetation planting or sealing with shot concrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.	✓			
▪ When fill material is transfer by belt conveyor systems, the conveyors shall be enclosed on top and 2 sides.	✓			
▪ The belt scraper shall be equipped with bottom plates or other similar means to prevent falling of material from the return belt.	✓			
▪ The level of stockpiling belt conveyor shall be adjustable such that the vertical distance between the belt conveyor and the material landing point is maintained at no more than 1m.	✓			
Noise Impact				
▪ The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.	✓			
▪ Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works.	✓			
▪ Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.	✓			
▪ Air compressors and hand held breakers should have noise labels.	✓			
▪ Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.	✓			
▪ Noisy equipment and mobile plant shall always be site away from NSFs.	✓			

Environmental Checklist

	Implementation Stages*			Remark
	Yes	No	N/A	
Water Quality				
▪ The existing / realigned intercepting channels and the sand / silt removal facilities shall be used and maintained.				
▪ Temporary intercepting drains should be used at the stockpiling area to divert polluted stormwater to the intercepting channels. Earth bunds and sand bay barriers shall be used to assist the diversion of polluted stormwater to the intercepting channels.	✓			Refer to item 2
▪ A buffer distance of at least 100m shall be maintained between the boundary of the public fill stockpiling area and the sea front.	✓			
▪ A buffer distance of at least 20m shall be maintained between the boundary of the C&DMSF and the seafront.	✓			
▪ The stormwater intercepting system shall be effective to collect of runoff and remove suspended solids before discharge.	✓			
▪ The material shall be properly covered to prevent washed away especially before rainstorm.	✓			
▪ The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD.	✓			
▪ Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shotcrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.	✓			
▪ Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	✓			
▪ A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or removed before being discharged into storm drains.	✓			
▪ The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.	✓			
▪ Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided.	✓			
▪ The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities.	✓			
▪ Wastewater collected from canteen kitchen, including that from basins, sinks and floor drains, shall be discharged into foul sewers via grease traps.	✓			
▪ Oil intercept in addition of sand / silt removal facilities shall be provided at the car parking areas.	✓			
▪ The barges shall be in right size such that adequate clearance is maintained between the vessels and the seabed at all states of the tide to ensure the undue turbidity is not generated by turbulence from vessel movement or propeller wash.	✓			
▪ All vessels used for transportation of fill material shall have tight fitting seals to their bottom openings to prevent leakage of material during transport.	✓			
▪ Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer.	✓			
▪ Barges shall not be filled to a level which may cause the overflow of material during loading or transportation. Barge effluents shall be properly collected and treated before disposal.	✓			
▪ The work activities shall not cause any visible foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the vicinity of the barging facilities.	✓			
▪ Existing silt curtain at the outward side of the basin near the Barging Handling Area throughout the period shall be repair, maintain and service when there is public fill intake by barges to the Fill Bank in accordance with PS Clause 1.68. The total length of the silt curtains shall not be less than 160m, and a gap of about 80m shall be left open for access of barges. The silt curtain shall be properly maintained such that it can also serve the function of refuse containment boom to confine floating refuse.	✓			
▪ A waste collection vessel shall be deployed to remove floating debris.	✓			Refer to item 1



Landscape and Visual							
<ul style="list-style-type: none"> The design of the fill bank and platform heights adopted should allow the fill bank to fit into the general topography of the surrounding land. Straight edged slopes should be avoided. 	✓						
<ul style="list-style-type: none"> The maximum stockpiling height at the fill bank shall be limited to a maximum of +35.2mPD. 	✓						
<ul style="list-style-type: none"> Surface of outer slopes of the fill bank shall preferably be hydroseeded or covered with geo-textile matting of appropriate colour (e.g. dark green / brown) once completed. 	✓						
<ul style="list-style-type: none"> The barging point and the C&DMSF at the fill bank shall not be in operation from 07:00 pm to 08:00 am daily to avoid potential visual impact from glare. 	✓						
<p>Other Environmental Factors</p>							
<ul style="list-style-type: none"> C&D waste sorted from mixed C&D material at the C&DMSF shall be removed from the temporary buffer storage area on a daily basis and transfer to SENT landfill for disposal. 	✓						
<ul style="list-style-type: none"> Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. 	✓						
<ul style="list-style-type: none"> Any unused materials or those with remaining functional capacity should be recycled. 	✓						
<ul style="list-style-type: none"> All generators, fuel and oil storage are within bundle areas. 	✓						Refer to item 3
<ul style="list-style-type: none"> Oil leakage from machinery, vehicle and plant is prevented. 	✓						

Summary of the Weekly Site Inspection:

Item	Details of defective works or observations	Photo Ref.	Further Action Required (Yes/No)
1	Follow up action to previous comments on 02/06/06 (item 4), 08/06/06 (item 4), 14/06/06 (item 3), 20/06/06 (item 3), 26/06/06 (item 4), 06/07/06 (item 2), 12/07/06 (item 3) and 24/07/06 (item 1), silt curtain at marine barging area was still found damaged. The Contractor should repair the damaged part of the silt curtain immediately.	060804_001	Yes
2	Follow up action to the previous comments on 20/06/06 (item 2), 26/06/06 (item 2), 06/07/06 (item 1), 12/07/06 (item 2), 18/07/06 (item 1) and 24/07/06 (item 2), mud and debris were still observed to be accumulated in the drainage channel at Chamber A. The Contractor was reminded to remove the mud and debris accumulated regularly.	060804_002	Yes
3	Follow up action to the previous comments on 12/07/06 (item 1), 18/07/06 (item 2) and 24/07/06 (item 4), generator at water truck station was found with drip tray.	060804_003	No
4	Follow up action to the previous comment on 24/07/06 (item 3), haul road was wet and no fugitive dust generated by vehicle was observed at Portion D3.	060804_004	No

Remark

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Name	Signature	Date
Inspected by H. T. Chow		04 August 2006
Checked by Linda Law		04 August 2006

Photos

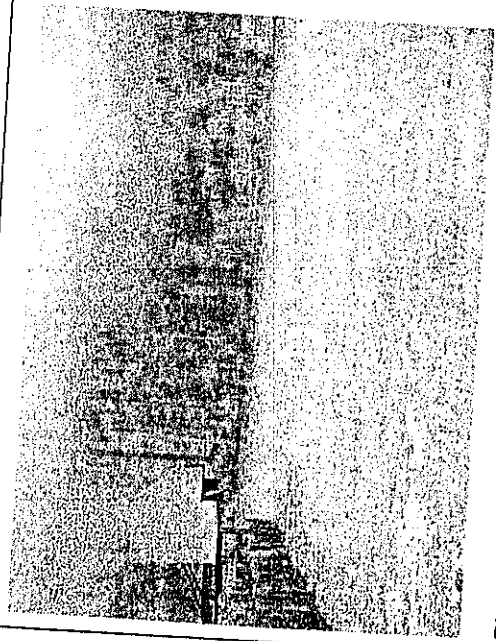


Photo 060804_001

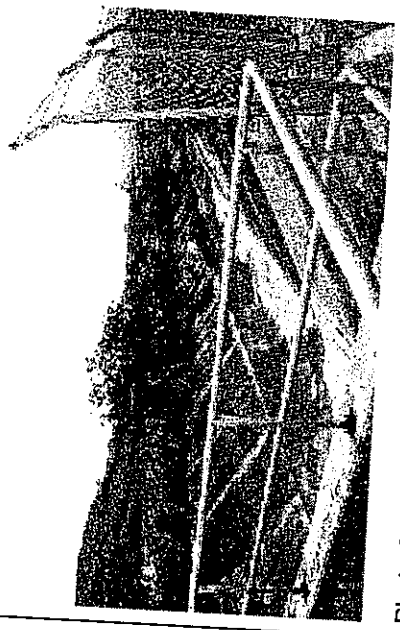


Photo 060804_002

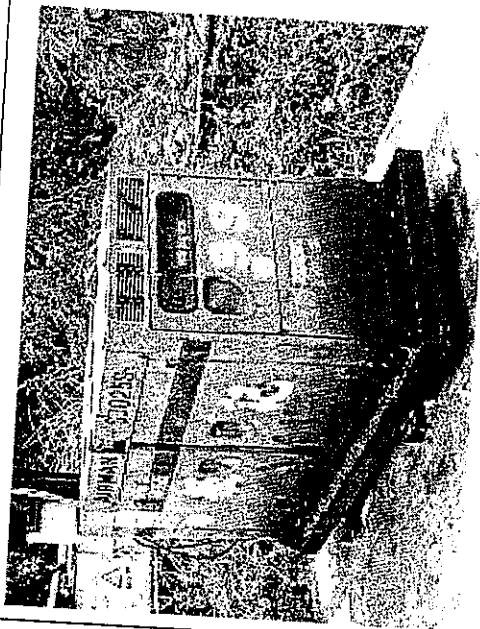


Photo 060804_003



Photo 060804_004

Follow-up Action of the Weekly Site Inspection

Inspection Date : 04 August 2006
 Time : 10:15
 Inspected by : H C Kwok (Contractor)
 Name : H T Chow (ET)

Weather : Sunny / Fine / Cloudy / Overcast / Drizzle / Rain / Storm / Hazy
 Wind : Calm / Light / Breeze / Strong
 Temperature : 28°C
 Humidity : High / Moderate / Low

Item	Details of defective works or observations	Response	Date of Action taken	Photo Ref.
1	Follow up action to previous comments on 02/06/06 (item 4), 08/06/06 (item 4), 14/06/06 (item 3), 20/06/06 (item 3), 26/06/06 (item 4), 06/07/06 (item 4), 12/07/06 (item 4), 18/07/06 (item 3) and 24/07/06 (item 1), silt curtain at marine barging area was still found damaged. The Contractor should repair the damaged part of the silt curtain immediately.	The Contractor had repaired well the whole pair of silt curtain.	29 Aug 2006	20060804a
2	Follow up action to the previous comments on 20/06/06 (item 2), 26/06/06 (item 2), 06/07/06 (item 1), 12/07/06 (item 2), 18/07/06 (item 1) and 24/07/06 (item 2), mud and debris were still observed to be accumulated in the drainage channel at Chamber A. The Contractor was reminded to remove the mud and debris accumulated regularly.	The Contractor had already removed the mud and debris accumulated in the drainage channel at the Chamber A.	30 Aug 2006	20060804b

Photo of Follow-up Action



20060804a



20060804b

CEDD Contract No.: CV/2005/12
Project: Fill Bank at Tseung Kwan O Area 137

Inspection Date : 10 August 2006
Time : 10:50

Weather : Sunny/Fine/Cloudy/Overcast/Drizzle/Rain/Storm/Hazy
Wind : Calm/Light/Breeze/Strong

Temperature : 29°C
Humidity : High/Moderate/Low

	Implementation Stages*			Remark
	Yes	No	N/A	
Environmental Checklist				
Fugitive Dust Emission				
▪ Dust control / mitigation measures shall be provided to prevent dust nuisance.	✓			
▪ A buffer zone of at least 100m shall be maintained between the edge of the stockpiling area and the nearest ASRs at the TKO Industrial Estate. Within the buffer zone, no dusty material shall be stockpiled and no loading / unloading and similar activities should be allowed.	✓			
▪ Water sprays shall be provided and used to dampen materials.	✓			
▪ Regular cleaning and watering the site shall be provided to minimize the fugitive dust emissions.	✓			
▪ All vehicles shall be restrict to a maximum speed of 10 km per hour.	✓			
▪ Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin.	✓			
▪ The designated site main haul road shall be paved or regular watering.	✓			
▪ Frequent watering of work site shall be at least three times per day.	✓			
▪ Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site.	✓			
▪ Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank.	✓			
▪ The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD.	✓			
▪ Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shot concrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.	✓			
▪ When fill material is transfer by belt conveyor systems, the conveyors shall be enclosed on top and 2 sides.	✓			
▪ The belt scraper shall be equipped with bottom plates or other similar means to prevent falling of material from the return belt.	✓			
▪ The level of stockpiling belt conveyor shall be adjustable such that the vertical distance between the belt conveyor and the material landing point is maintained at no more than 1m.	✓			
Noise Impact				
▪ The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.	✓			
▪ Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works.	✓			
▪ Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.		✓		Refer to item 7
▪ Air compressors and hand held breakers should have noise labels.	✓			
▪ Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.	✓			
▪ Noisy equipment and mobile plant shall always be site away from NSRs.	✓			

CEDD Contract No.: CV/2005/12
 Project: Fill Bank at Tseung Kwan O Area 137



No.	Description	Compliance	Remarks
Landscape and Visual			
	The design of the fill bank and platform heights adopted should allow the fill bank to fit into the general topography of the surrounding land. Straight edged slopes should be avoided.	✓	
	The maximum stockpiling height at the fill bank shall be limited to a maximum of +35.2mPD.	✓	
	Surface of outer slopes of the fill bank shall preferably be hydroseeded or covered with geo-textile matting of appropriate colour (e.g. dark green / brown) once completed.	✓	
	The barging point and the C&DMSF at the fill bank shall not be in operation from 07:00 pm to 08:00 am daily to avoid potential visual impact from glare.	✓	
Other Environmental Factors			
	C&D waste sorted from mixed C&D material at the C&DMSF shall be removed from the temporary buffer storage area on a daily basis and transfer to SENT landfill for disposal.	✓	Refer to item 8
	Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	✓	
	Any unused materials or those with remaining functional capacity should be recycled.	✓	Refer to item 4
	All generators, fuel and oil storage are within bundle areas.	✓	
	Oil leakage from machinery, vehicle and plant is prevented.	✓	

Summary of the Weekly Site Inspection:

Item	Details of defective works or observations	Photo Ref.	Further Action Required (Yes/No)
1	Follow up action to previous comments on 02/06/06 (item 4), 08/06/06 (item 4), 14/06/06 (item 3), 20/06/06 (item 3), 26/06/06 (item 4), 06/07/06 (item 2), 12/07/06 (item 4), 18/07/06 (item 3), 24/07/06 (item 1) and 04/08/06 (item 1), silt curtain at marine barging area was still found damaged. The Contractor should repair the damaged part of the silt curtain immediately.	060810_001	Yes
2	Follow up action to the previous comments on 20/06/06 (item 2), 26/06/06 (item 2), 06/07/06 (item 1), 12/07/06 (item 2), 18/07/06 (item 1), 24/07/06 (item 2) and 04/08/06 (item 2), mud and debris were still observed to be accumulated in the drainage channel at Chamber A. The Contractor was reminded to remove the mud and debris accumulated regularly.	060810_002	Yes
3	Black smoke emission from an excavator at Portion D3 was observed. The Contractor should stop to use the excavator before repaired. Besides, the Contractor was reminded to maintain all site machines properly to prevent black smoke emission.	060810_003	Yes
4	A Generator at CCTV station was found without drip tray. The Contractor should provide drip trays for all generators.	060810_004	Yes
5	Dead vegetation was found to be accumulated at Chamber B. The Contractor was reminded to clean up the dead vegetation accumulated.	060810_005	Yes
6	Mud and debris were found to be accumulated at Chamber C. The Contractor should clean up the mud and debris regularly.	060810_006	Yes
7	The door of air compressor at water truck filling station was opened. The Contractor was reminded to close the door during the work period.	060810_007	Yes
8	Many tires were found placed on the ground at water truck filling station without covers. The Contractor was reminded to cover the tires with tarpaulin sheets.	060810_008	Yes

Remark

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Name	Signature	Date
Inspected by H. T. Chow		10 August 2006
Checked by Linda Law		10 August 2006

Photos

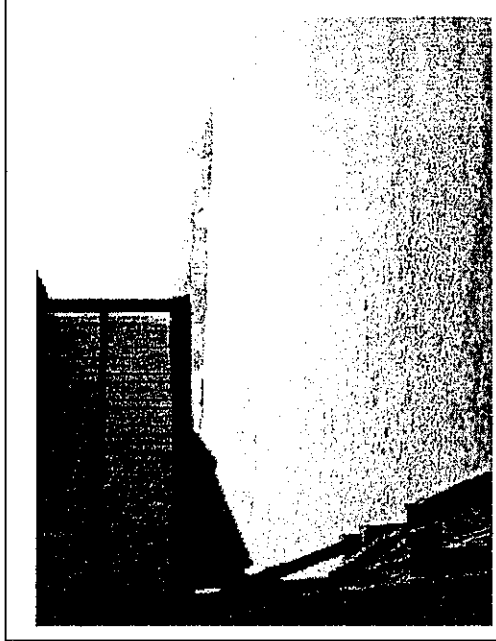


Photo 060810_001



Photo 060810_002

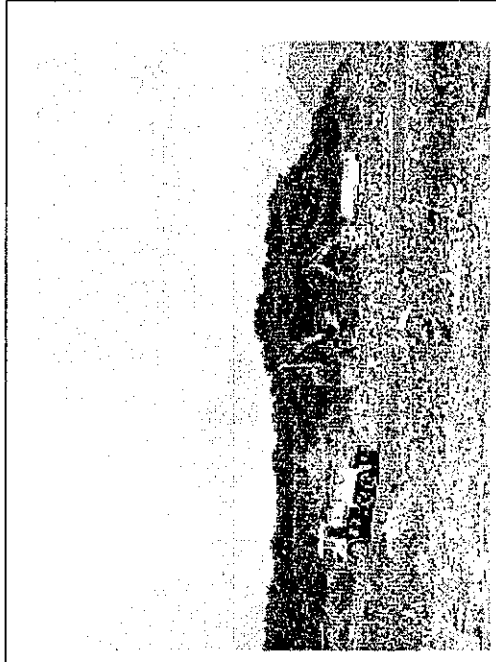


Photo 060810_003

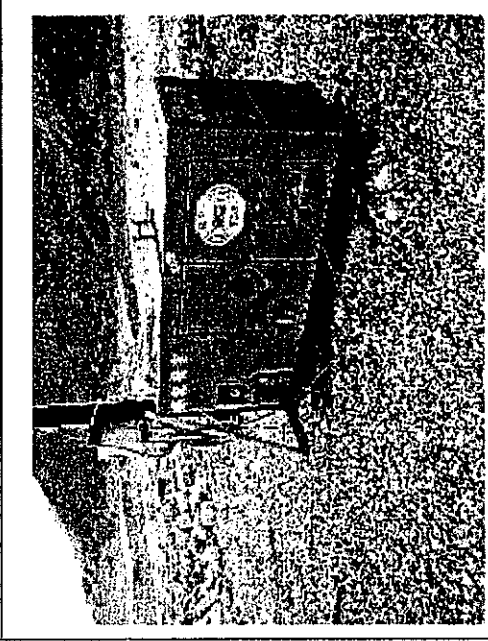


Photo 060810_004

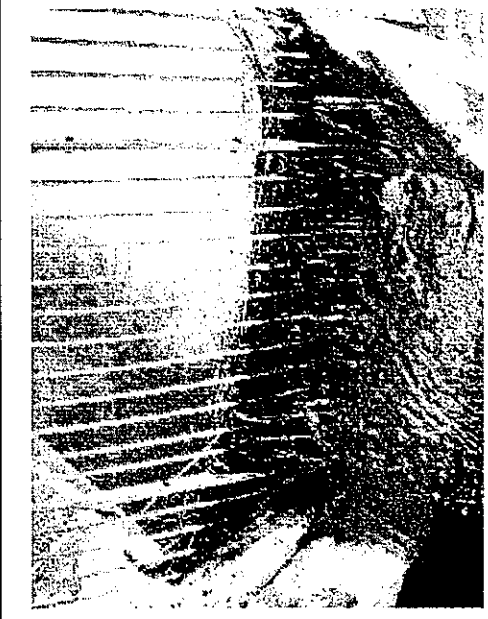


Photo 060810_005



Photo 060810_006



Photo 060810_007

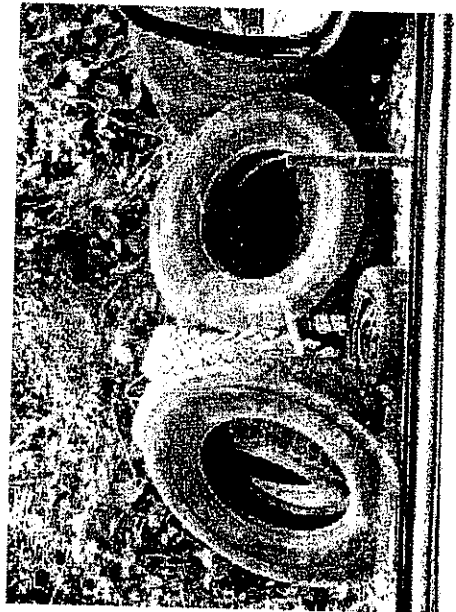
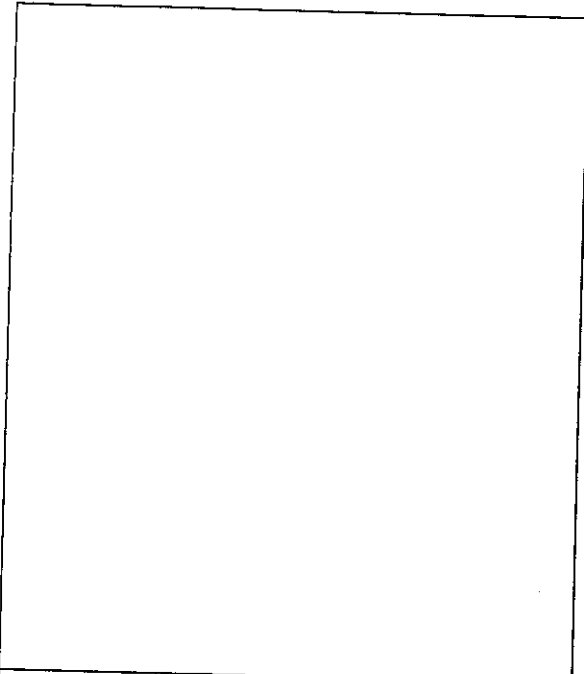


Photo 060810_008



CEDD Contract No.: CV/2005/12
Project: Fill Bank at Tseung Kwan O Area 137

Follow-up Action of the Weekly Site Inspection

(IEC)
(Contractor)
(ET)

Inspected by Name : Anthony Wong
H C Kwok
H T Chow

Inspection Date : 10 August 2006
Time : 10:50

Temperature : 29°C
Humidity : High-Moderate-Low

Weather : Sunny-Fine-Cloudy-Overcast-Drizzle-Rain-Storm-Hazy
Wind : Calm-Light-Breeze-Strong

Item	Details of defective works or observations	Response	Date of Action taken	Photo Ref.
1	Follow up action to previous comments on 02/06/06 (item 4), 08/06/06 (item 4), 14/06/06 (item 3), 20/06/06 (item 3), 26/06/06 (item 4), 06/07/06 (item 2), 12/07/06 (item 4), 18/07/06 (item 3), 24/07/06 (item 1) and 04/08/06 (item 1), silt curtain at marine barging area was still found damaged. The Contractor should repair the damaged part of the silt curtain immediately.	The Contractor had repaired well the whole pair of silt curtain.	29 Aug 2006	20060810a
2	Follow up action to the previous comments on 20/06/06 (item 2), 26/06/06 (item 2), 06/07/06 (item 1), 12/07/06 (item 1), 18/07/06 (item 1), 24/07/06 (item 2) and 04/08/06 (item 2), mud and debris were still observed to be accumulated in the drainage channel at Chamber A. The Contractor was reminded to remove the mud and debris accumulated regularly.	The Contractor had already removed the mud and debris accumulated in the drainage channel at the Chamber A.	30 Aug 2006	20060810b
3	Black smoke emission from an excavator at Portion D3 was observed. The Contractor should stop to use the excavator before repaired. Besides, the Contractor was reminded to maintain all site machines properly to prevent black smoke emission.	The excavator concerned had already been removed off site.	-	-
4	A Generator at CCTV station was found without drip tray. The Contractor should provide drip trays for all generators.	The Contractor had provided drip tray for the generator concerned at the CCTV station.	29 Aug 2006	20060810c
5	Dead vegetation was found to be accumulated at Chamber B. The Contractor was reminded to clean up the dead vegetation accumulated.	The Contractor had cleaned up the dead vegetation accumulated at the Chamber B.	10 Aug 2006	20060810d
6	Mud and debris were found to be accumulated at Chamber C. The Contractor should clean up the mud and debris regularly.	The Contractor had cleaned up the mud and debris accumulated at the Chamber C.	10 Aug 2006	20060810e
7	The door of air compressor at water truck filling station was opened. The Contractor was reminded to close the door during the work period.	The Contractor had closed the doors of the air compressor concerned immediately.	10 Aug 2006	20060810f
8	Many tires were found placed on the ground at water truck filling station without covers. The Contractor was reminded to cover the tires with tarpaulin sheets.	The Contractor had well covered the tires with tarpaulin sheets immediately.	10 Aug 2006	20060810g

Photo of Follow-up Action (Page 1 of 2)



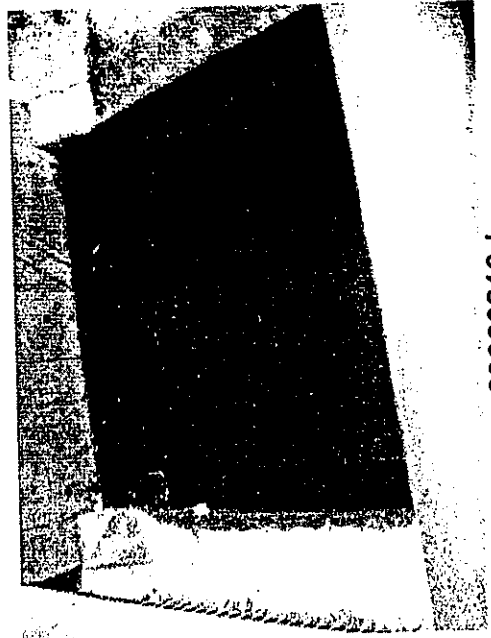
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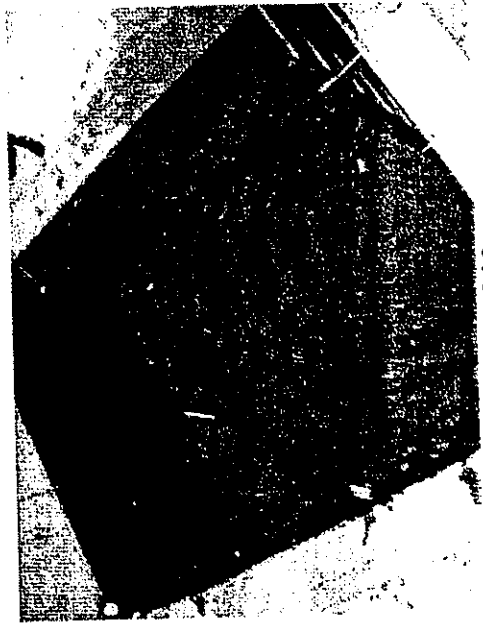
20060810b



20060810c



20060810d



20060810e



20060810f

Photo of Follow-up Action (Page 2 of 2)



20060810g

CEDD Contract No.: CV/2005/12
Project: Fill Bank at Tseung Kwan O Area 137

Inspection Date : 16 August 2006
Time : 10:30

Weather : Sunny/Fine/Cloudy/Overcast/Drizzle/Rain/Storm/Hazy
Wind : Calm/Light/Breeze/Strong

Temperature : 33°C
Humidity : High/Moderate/Low

Environmental Checklist	Implementation Stages*			Remark
	Yes	No	N/A	
Fugitive Dust Emission				
▪ Dust control / mitigation measures shall be provided to prevent dust nuisance.	✓			
▪ A buffer zone of at least 100m shall be maintained between the edge of the stockpiling area and the nearest ASRs at the TKO Industrial Estate. Within the buffer zone, no dusty material shall be stockpiled and no loading / unloading and similar activities should be allowed.	✓			
▪ Water sprays shall be provided and used to dampen materials.	✓			
▪ Regular cleaning and watering the site shall be provided to minimize the fugitive dust emissions.	✓			
▪ All vehicles shall be restrict to a maximum speed of 10 km per hour.	✓			
▪ Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin.	✓			
▪ The designated site main haul road shall be paved or regular watering.	✓			
▪ Frequent watering of work site shall be at least three times per day.	✓			
▪ Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site.	✓			
▪ Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank.	✓			
▪ The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD.	✓			
▪ Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shot concrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.	✓			
▪ When fill material is transfer by belt conveyor systems, the conveyors shall be enclosed on top and 2 sides.	✓			
▪ The belt scraper shall be equipped with bottom plates or other similar means to prevent falling of material from the return belt.	✓			
▪ The level of stockpiling belt conveyor shall be adjustable such that the vertical distance between the belt conveyor and the material landing point is maintained at no more than 1m.	✓			
Noise Impact				
▪ The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.	✓			
▪ Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works.	✓			
▪ Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.	✓			Refer to item 1
▪ Air compressors and hand held breakers should have noise labels.	✓			
▪ Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.	✓			
▪ Noisy equipment and mobile plant shall always be site away from NSFRs.	✓			

CEDD Contract No.: CV/2005/12
Project: Fill Bank at Tseung Kwun O Area 137



Landscape and Visual				
▪ The design of the fill bank and platform heights adopted should allow the fill bank to fit into the general topography of the surrounding land. Straight edged slopes should be avoided.	✓			
▪ The maximum stockpiling height at the fill bank shall be limited to a maximum of +35.2mPD.	✓			
▪ Surface of outer slopes of the fill bank shall preferably be hydroseeded or covered with geo-textile matting of appropriate colour (e.g. dark green / brown) once completed.	✓			
▪ The barging point and the C&DMSF at the fill bank shall not be in operation from 07:00 pm to 08:00 am daily to avoid potential visual impact from glare.	✓			
Other Environmental Factors				
▪ C&D waste sorted from mixed C&D material at the C&DMSF shall be removed from the temporary buffer storage area on a daily basis and transfer to SENT landfill for disposal.	✓			Refer to item 2
▪ Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	✓			
▪ Any unused materials or those with remaining functional capacity should be recycled.	✓		✓	Refer to item 3
▪ All generators, fuel and oil storage are within bundle areas.	✓			
▪ Oil leakage from machinery, vehicle and plant is prevented.	✓			

CEDD Contract No.: CV/2005/12
Project: Fill Bank at Tseung Kwan O Area 137

Summary of the Weekly Site Inspection:

Item	Details of defective works or observations	Photo Ref.	Further Action Required (Yes/No)
1	Follow up action to previous comment on 10/08/06 (item 7), the door of air compressor at water truck filling station was closed.	060816_001	No
2	Follow up action to previous comment on 10/08/06 (item 8), many tires were found placed on the ground at water truck filling station with covers.	060816_002	No
3	Follow up action to previous comment on 10/08/06 (item 4), the Generator at CCTV station was still found without drip tray. The Contractor should provide drip trays for all generators.	060816_003	Yes
4	Follow up action to previous comment on 10/08/06 (item 3), no black smoke was found emitted from an excavator at Portion D3	060816_004	No
5	Follow up action to previous comment on 10/08/06 (item 5), dead vegetation at Chamber B was cleaned up.	060816_005	No
6	Follow up action to previous comment on 10/08/06 (item 6), mud and debris at Chamber C were cleaned up.	060816_006	No
7	Follow up action to the previous comments on 20/06/06 (item 2), 26/06/06 (item 2), 06/07/06 (item 2), 12/07/06 (item 2), 18/07/06 (item 2), 24/07/06 (item 2), 04/08/06 (item 2) and 10/08/06 (item 2), mud and debris were still observed to be accumulated in the drainage channel at Chamber A. The Contractor was reminded to remove the mud and debris accumulated regularly.	060816_007	Yes
8	Follow up action to previous comments on 02/06/06 (item 4), 08/06/06 (item 4), 14/06/06 (item 3), 20/06/06 (item 3), 26/06/06 (item 4), 06/07/06 (item 2), 12/07/06 (item 4), 18/07/06 (item 4), 24/07/06 (item 3), 24/07/06 (item 1), 04/08/06 (item 1) and 10/08/06 (item 1), silt curtain at marine barging area was still found damaged. The Contractor should repair the damaged part of the silt curtain immediately.	060816_008	Yes

Remark

Name	Signature	Date
Inspected by H. T. Chow		16 August 2006
Checked by Linda Law		16 August 2006

Photos

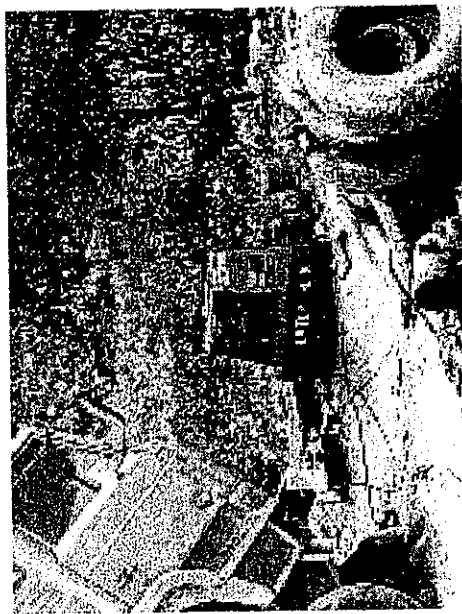


Photo 060816_001



Photo 060816_002

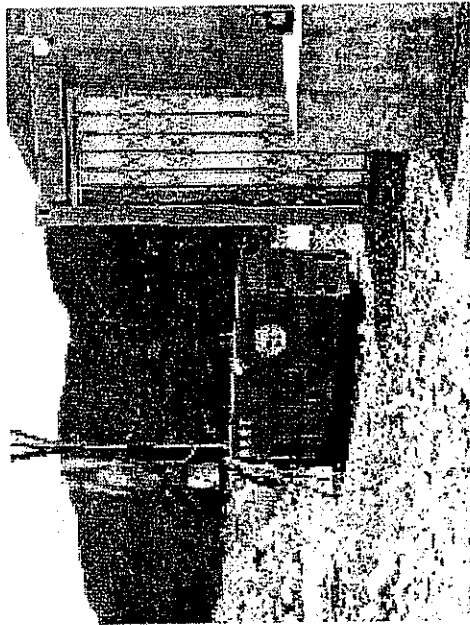


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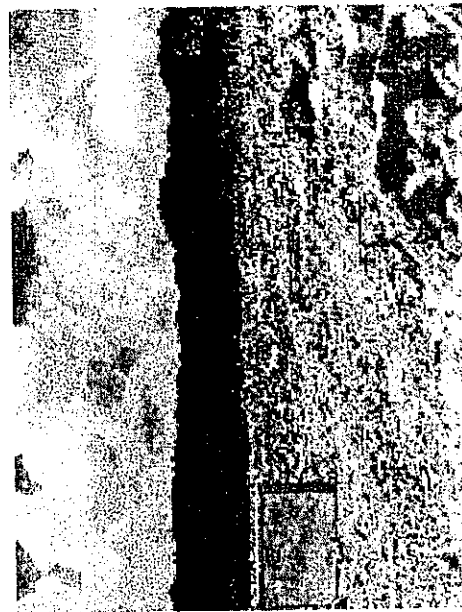


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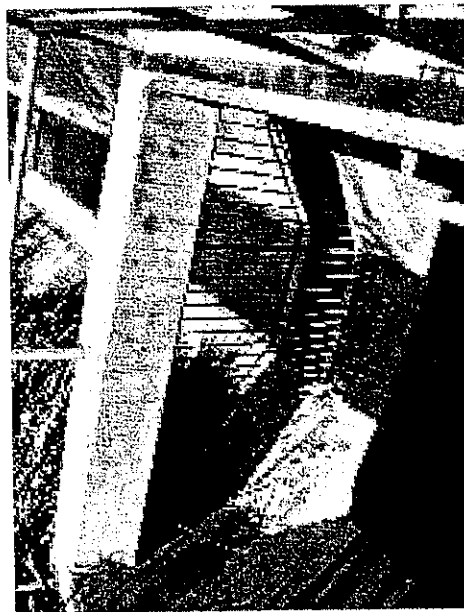


Photo 060816_005



Photo 060816_006



Photo 060816_007

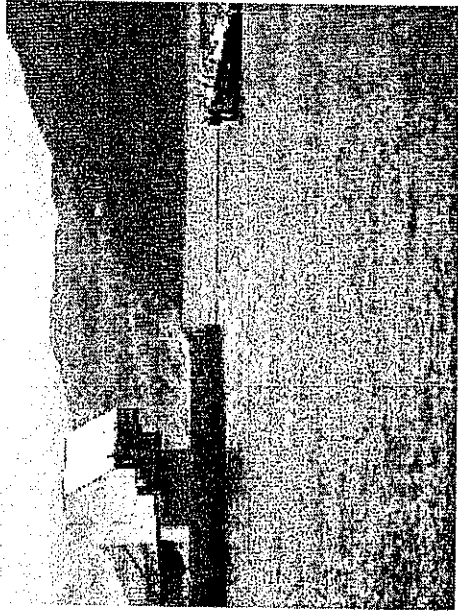
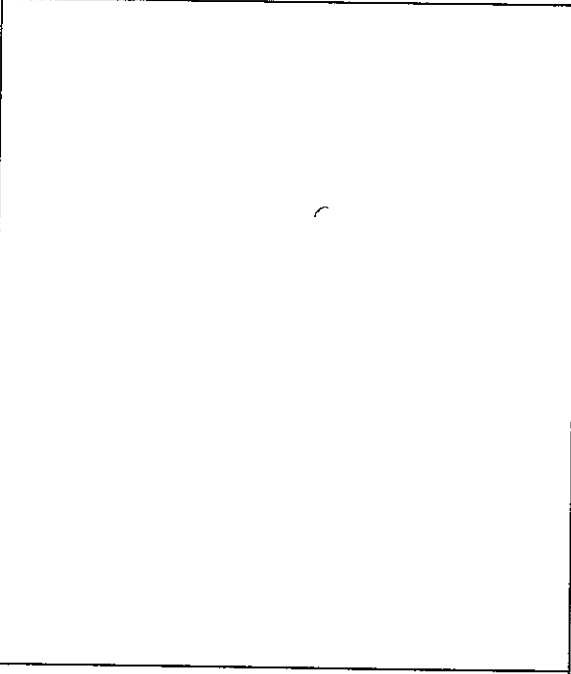


Photo 060816_008



CEDD Contract No.: CV/2005/12
 Project: Fill Bank at Tseung Kwan O Area 137

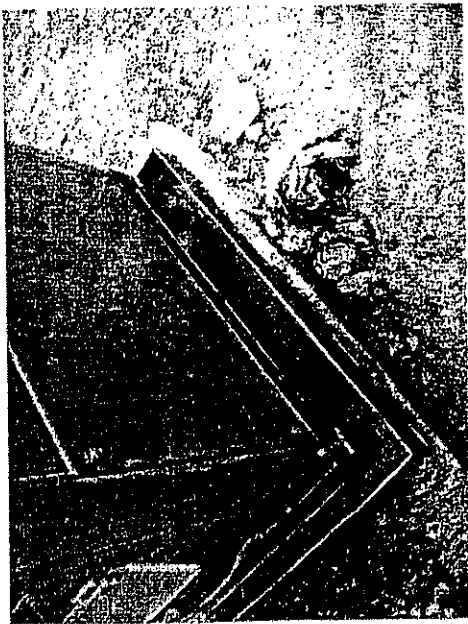
Follow-up Action of the Weekly Site Inspection

Inspection Date : 16 August 2006
 Time : 10:30
 Inspected by Name : H C Kwok
 (Contractor) (ET)

Weather : Sunny/Fine/Cloudy/Overcast/Drizzle/Rain/Sterrn/Hazy
 Wind : Calm/Light/Breeze/Strong
 Temperature : 33°C
 Humidity : High/Moderate/Low

Item	Details of defective works or observations	Response	Date of Action taken	Photo Ref.
1	Follow up action to previous comment on 10/08/06 (item 4), the Generator at CCTV station was still found without drip tray. The Contractor should provide drip trays for all generators.	The Contractor had provided drip tray for the generator concerned at the CCTV station.	29 Aug 2006	20060816a
2	Follow up action to the previous comments on 20/06/06 (item 2), 26/06/06 (item 2), 06/07/06 (item 1), 12/07/06 (item 2), 18/07/06 (item 1), 24/07/06 (item 2), 04/08/06 (item 2) and 10/08/06 (item 2), mud and debris were still observed to be accumulated in the drainage channel at Chamber A. The Contractor was reminded to remove the mud and debris accumulated regularly.	The Contractor had already removed the mud and debris accumulated in the drainage channel at the Chamber A.	30 Aug 2006	20060816b
3	Follow up action to previous comments on 02/06/06 (item 4), 08/06/06 (item 4), 14/06/06 (item 3), 20/06/06 (item 3), 26/06/06 (item 4), 06/07/06 (item 2), 12/07/06 (item 4), 18/07/06 (item 3), 24/07/06 (item 1), 04/08/06 (item 1) and 10/08/06 (item 1), silt curtain at marine barging area was still found damaged. The Contractor should repair the damaged part of the silt curtain immediately.	The Contractor had repaired well the whole pair of silt curtain.	29 Aug 2006	20060816c

Photo of Follow-up Action



20060816a



20060816b



20060816c

CEDD Contract No.: CVI2005/12
Project: Fill Bank at Tseung Kwun O Area 137

Inspection Date : 22 August 2006
Time : 14:00

Weather : Sunny/Fine/Cloudy/Overcast/Drizzle/Rain/Storm/Hazy
Wind : Calm/Light/Breeze/Strong

Temperature : 32°C
Humidity : High/Moderate/Low



Environmental Checklist	Implementation Stages*			Remark
	Yes	No	N/A	
	Fugitive Dust Emission			
▪ Dust control / mitigation measures shall be provided to prevent dust nuisance.	✓			
▪ A buffer zone of at least 100m shall be maintained between the edge of the stockpiling area and the nearest ASRs at the TKO Industrial Estate. Within the buffer zone, no dusty material shall be stockpiled and no loading / unloading and similar activities should be allowed.	✓			
▪ Water sprays shall be provided and used to dampen materials.	✓			
▪ Regular cleaning and watering the site shall be provided to minimize the fugitive dust emissions.	✓			
▪ All vehicles shall be restricted to a maximum speed of 10 km per hour.	✓			
▪ Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin.	✓			
▪ The designated site main haul road shall be paved or regular watering.	✓			
▪ Frequent watering of work site shall be at least three times per day.	✓			
▪ Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site.	✓			
▪ Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank.	✓			
▪ The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD.	✓			
▪ Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shot concrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.	✓			
▪ When fill material is transfer by belt conveyor systems, the conveyors shall be enclosed on top and 2 sides.	✓			
▪ The belt scraper shall be equipped with bottom plates or other similar means to prevent falling of material from the return belt.	✓			
▪ The level of stockpiling belt conveyor shall be adjustable such that the vertical distance between the belt conveyor and the material landing point is maintained at no more than 1m.	✓			
Noise Impact				
▪ The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.	✓			
▪ Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works.	✓			
▪ Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.	✓			
▪ Air compressors and hand held breakers should have noise labels.	✓			
▪ Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.	✓			
▪ Noisy equipment and mobile plant shall always be site away from NSRs.	✓			

Summary of the Weekly Site Inspection:

Item	Details of defective works or observations	Photo Ref.	Further Action Required (Yes/No)
1	Follow up action to previous comments on 10/08/06 (item 4) and 16/08/06 (item 3), the Generator at CCTV station was still found without drip tray. The Contractor should provide drip trays for all generators.	060822_001	Yes
2	Follow up action to the previous comments on 20/06/06 (item 2), 26/06/06 (item 2), 06/07/06 (item 1), 12/07/06 (item 2), 18/07/06 (item 1), 24/07/06 (item 2), 04/08/06 (item 2), 10/08/06 (item 2) and 16/08/06 (item 7), mud and debris were still observed to be accumulated in the drainage channel at Chamber A. The Contractor was reminded to remove the mud and debris accumulated regularly.	060822_002	Yes
3	Follow up action to previous comments on 02/06/06 (item 4), 08/06/06 (item 4), 14/06/06 (item 3), 20/06/06 (item 3), 26/06/06 (item 4), 06/07/06 (item 2), 12/07/06 (item 4), 18/07/06 (item 4), 24/07/06 (item 3), 24/07/06 (item 1), 04/08/06 (item 1), 10/08/06 (item 1) and 16/08/06 (item 8), the damaged silt curtain at marine barging area was found repaired.	060822_003	No

Remark

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Inspected by	Name	Signature	Date
	H. T. Chow		22 August 2006
Checked by	Linda Law		22 August 2006

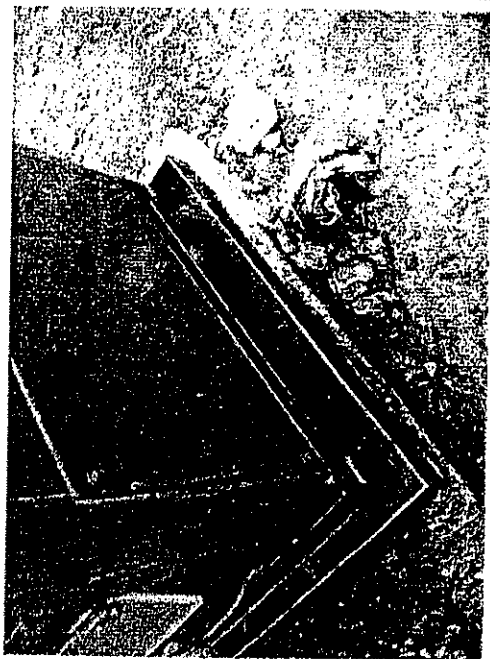
Follow-up Action of the Weekly Site Inspection

Inspection Date : 22 August 2006
 Time : 14:00
 Inspected by Name : H C Kwok (Contractor)
 HT Chow (ET)

Weather : Sunny/Fine/Clear/Overcast/Drizzle/Rain/Sterim/Hazy
 Wind : Calm/Light/Breeze/Strong
 Temperature : 32°C
 Humidity : High/Moderate/Low

Item	Details of defective works or observations	Response	Date of Action taken	Photo Ref.
1	Follow up action to previous comments on 10/08/06 (item 4) and 16/08/06 (item 3), the Generator at CCTV station was still found without drip tray. The Contractor should provide drip trays for all generators.	The Contractor had provided drip tray for the generator concerned at the CCTV station.	29 Aug 2006	20060822a
2	Follow up action to the previous comments on 20/06/06 (item 2), 26/06/06 (item 2), 06/07/06 (item 1), 12/07/06 (item 2), 18/07/06 (item 1), 24/07/06 (item 2), 04/08/06 (item 2), 10/08/06 (item 7), mud and debris were still observed to be accumulated in the drainage channel at Chamber A. The Contractor was reminded to remove the mud and debris accumulated regularly.	The Contractor had already removed the mud and debris accumulated in the drainage channel at the Chamber A.	30 Aug 2006	20060822b

Photo of Follow-up Action



20060822a



20060822b

CEDD Contract No.: CV/2005/12
 Project: Fill Bank at Tseung Kwan O Area 137

Inspection Date : 28 August 2006
 Time : 11:15
 Weather : Sunny/Fine/Cloudy/Overcast/Drizzle/Rain/Storm/Hazy
 Wind : Calm/Light/Breeze/Strong
 Temperature : 30°C
 Humidity : High/Moderate/Low

Environmental Checklist

Implementation Stages*	Remark	
	Yes	No / N/A
Fugitive Dust Emission		
✓		Dust control / mitigation measures shall be provided to prevent dust nuisance.
✓		A buffer zone of at least 100m shall be maintained between the edge of the stockpiling area and the nearest ASRs at the TKO Industrial Estate. Within the buffer zone, no dusty material shall be stockpiled and no loading / unloading and similar activities should be allowed.
✓		Water sprays shall be provided and used to dampen materials.
✓		Regular cleaning and watering the site shall be provided to minimize the fugitive dust emissions.
✓		All vehicles shall be restricted to a maximum speed of 10 km per hour.
✓		Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin.
✓		The designated site main haul road shall be paved or regular watering.
✓		Frequent watering of work site shall be at least three times per day.
✓		Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site.
✓		Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank.
✓		The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD.
✓		Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shot concrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.
✓		When fill material is transfer by belt conveyor systems, the conveyors shall be enclosed on top and 2 sides.
✓		The belt scraper shall be equipped with bottom plates or other similar means to prevent falling of material from the return belt.
✓		The level of stockpiling belt conveyor shall be adjustable such that the vertical distance between the belt conveyor and the material landing point is maintained at no more than 1m.
Noise Impact		
✓		The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.
✓		Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works.
✓		Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.
✓		Air compressors and hand held breakers should have noise labels.
✓		Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.
✓		Noisy equipment and mobile plant shall always be site away from NSRs.

CEDD Contract No.: CV/2005/12
Project: Fill Bank at Tseung Kwan O Area 137

Implementation Stages*		Remark
Water Quality		
▪	✓	The existing / realigned intercepting channels and the sand / silt removal facilities shall be used and maintained.
▪	✓	Temporary intercepting drains should be used at the stockpiling area to divert polluted stormwater to the intercepting channels. Earth bunds and sand bay barriers shall be used to assist the diversion of polluted stormwater to the intercepting channels.
▪	✓	A buffer distance of at least 100m shall be maintained between the boundary of the public fill stockpiling area and the sea front.
▪	✓	A buffer distance of at least 20m shall be maintained between the boundary of the C&DMSF and the seafront.
▪	✓	The stormwater intercepting system shall be effective to collect of runoff and remove suspended solids before discharge.
▪	✓	The material shall be properly covered to prevent washed away especially before rainstorm.
▪	✓	The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD.
▪	✓	Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.
▪	✓	Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.
▪	✓	A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or removed before being discharged into storm drains.
▪	✓	The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcore to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.
▪	✓	Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided.
▪	✓	The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities.
▪	✓	Wastewater collected from canteen kitchen, including that from basins, sinks and floor drains, shall be discharged into foul sewers via grease traps.
▪	✓	Oil intercept in addition of sand / silt removal facilities shall be provided at the car parking areas.
▪	✓	The barges shall be in right size such that adequate clearance is maintained between the vessels and the seabed at all states of the tide to ensure the undue turbidity is not generated by turbulence from vessel movement or propeller wash.
▪	✓	All vessels used for transportation of fill material shall have tight fitting seals to their bottom openings to prevent leakage of material during transport.
▪	✓	Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer.
▪	✓	Barges shall not be filled to a level which may cause the overflow of material during loading or transportation. Barge effluents shall be properly collected and treated before disposal.
▪	✓	The work activities shall not cause any visible foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the vicinity of the barging facilities.
▪	✓	Existing silt curtain at the outward side of the basin near the Barging Handling Area throughout the period shall be repair, maintain and service when there is public fill intake by barges to the Fill Bank in accordance with PS Clause 1.68. The total length of the silt curtains shall not be less than 160m, and a gap of about 80m shall be left open for access of barges. The silt curtain shall be properly maintained such that it can also serve the function of refuse containment boom to confine floating refuse.
▪	✓	A waste collection vessel shall be deployed to remove floating debris.
	✓	Refer to item 4


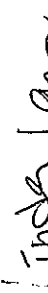
No.	Description	Compliance	Remarks
Landscape and Visual			
	▪ The design of the fill bank and platform heights adopted should allow the fill bank to fit into the general topography of the surrounding land. Straight edged slopes should be avoided.	√	
	▪ The maximum stockpiling height at the fill bank shall be limited to a maximum of +35.2mPD.	√	
	▪ Surface of outer slopes of the fill bank shall preferably be hydroseeded or covered with geo-textile matting of appropriate colour (e.g. dark green / brown) once completed.	√	
	▪ The barging point and the C&DMSF at the fill bank shall not be in operation from 07:00 pm to 08:00 am daily to avoid potential visual impact from glare.	√	
Other Environmental Factors			
	▪ C&D waste sorted from mixed C&D material at the C&DMSF shall be removed from the temporary buffer storage area on a daily basis and transfer to SENT landfill for disposal.	√	
	▪ Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	√	
	▪ Any unused materials or those with remaining functional capacity should be recycled.	√	
	▪ All generators, fuel and oil storage are within bundle areas.	√	Refer to item 2
	▪ Oil leakage from machinery, vehicle and plant is prevented.	√	

Summary of the Weekly Site Inspection:

Item	Details of defective works or observations		Photo Ref.	Further Action Required (Yes/No)
1	Follow up action to previous comments on 02/06/06 (item 4), 08/06/06 (item 3), 14/06/06 (item 3), 20/06/06 (item 4), 06/07/06 (item 2), 12/07/06 (item 4), 18/07/06 (item 3), 24/07/06 (item 1), 04/08/06 (item 1), 10/08/06 (item 1), 16/08/06 (item 8) and 22/08/06 (item 3), only left side of the silt curtain at marine barging area was found repaired. The Contractor was reminded to repair the right side of the silt curtain immediately.		060828_001	Yes
2	Follow up action to previous comments on 10/08/06 (item 4), 16/08/06 (item 3) and 22/08/06 (item 1), the generator at CCTV station was still found without drip tray. The Contractor should provide drip trays for all generators.		060828_002	Yes
3	Black smoke was emitted from an excavator at Portion D3. The Contractor should repair the excavator immediately.		060828_003	Yes
4	Follow up action to the previous comments on 20/06/06 (item 2), 26/06/06 (item 1), 12/07/06 (item 2), 18/07/06 (item 1), 24/07/06 (item 2), 04/08/06 (item 2), 10/08/06 (item 7) and 22/08/06 (item 2), mud and debris were still observed to be accumulated in the drainage channel at Chamber A. The Contractor was reminded to remove the mud and debris accumulated regularly.		060828_004	Yes

Remark

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Inspected by	Name	Signature	Date
	H. T. Chow		28 August 2006
Checked by	Name	Signature	Date
	Linda Law		28 August 2006

Photos

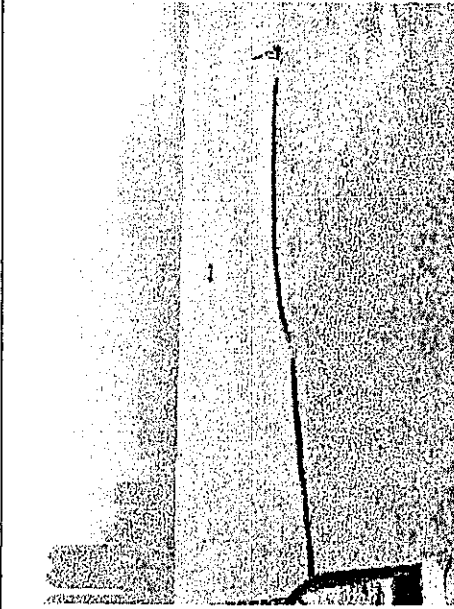


Photo 060828_001

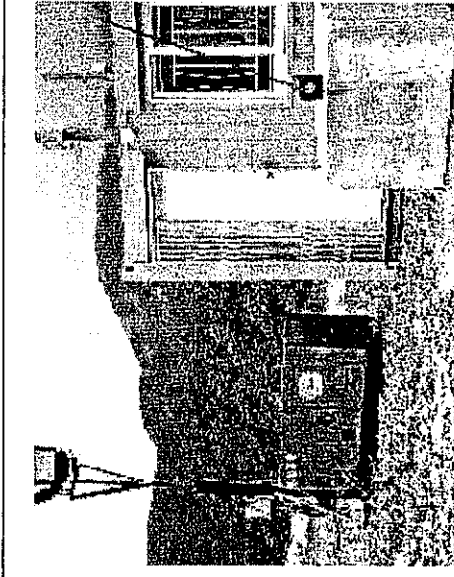


Photo 060828_002

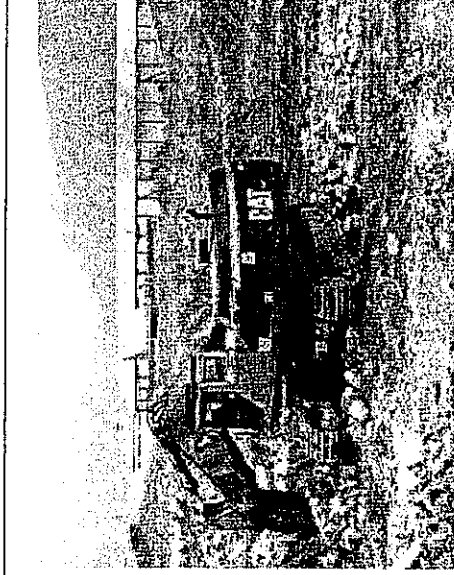


Photo 060828_003



Photo 060828_004

CEDD Contract No.: CV/2005/12
 Project: Fill Bank at Tseung Kwan O Area 137


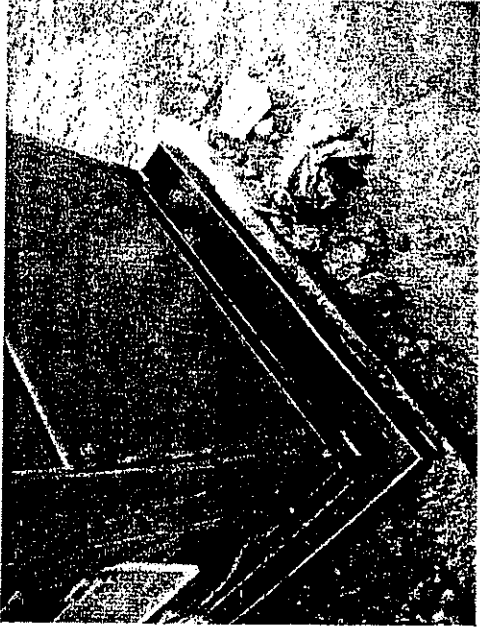

Follow-up Action of the Weekly Site Inspection

Inspection Date : 28 August 2006
 Time : 11:15
 Inspected by Name : HC Kwok
 (Contractor) (ET) HT Chow

Weather : Sunny/Fine/Cloudy/Overcast/Drizzle/Rain/Storm/Hazy
 Wind : Calm/Light/Breeze/Strong
 Temperature : 30°C
 Humidity : High/Moderate/Low

Item	Details of defective works or observations	Response	Date of Action taken	Photo Ref.
1	Follow up action to previous comments on 02/06/06 (item 4), 08/06/06 (item 4), 14/06/06 (item 3), 20/06/06 (item 3), 26/06/06 (item 4), 06/07/06 (item 2), 12/07/06 (item 4), 18/07/06 (item 3), 24/07/06 (item 1), 04/08/06 (item 1), 10/08/06 (item 1), 16/08/06 (item 8) and 22/08/06 (item 3), only left side of the silt curtain at marine barging area was found repaired. The Contractor was reminded to repair the right side of the silt curtain immediately.	The Contractor had finished the repair of the whole pair of silt curtain.	29 Aug 2006	20060828a
2	Follow up action to previous comments on 10/08/06 (item 4), 16/08/06 (item 3) and 22/08/06 (item 1), the generator at CCTV station was still found without drip tray. The Contractor should provide drip trays for all generators.	The Contractor had provided drip tray for the generator concerned at the CCTV station.	29 Aug 2006	20060828b
3	Black smoke was emitted from an excavator at Portion D3. The Contractor should repair the excavator immediately.	The excavator concerned had already been removed off site.	-	-
4	Follow up action to the previous comments on 20/06/06 (item 2), 26/06/06 (item 2), 06/07/06 (item 1), 12/07/06 (item 2), 18/07/06 (item 1), 24/07/06 (item 2), 04/08/06 (item 2), 10/08/06 (item 2), 16/08/06 (item 7) and 22/08/06 (item 2), mud and debris were still observed to be accumulated in the drainage channel at Chamber A. The Contractor was reminded to remove the mud and debris accumulated regularly.	The Contractor had already removed the mud and debris accumulated in the drainage channel at the Chamber A.	30 Aug 2006	20060828c

Photo of Follow-up Action

 <p>20060828a</p>	 <p>20060828b</p>	 <p>20060828c</p>			
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Appendix J

Implementation Schedule of Mitigation Measures

Environmental Mitigation Implementation Schedule

	Location	Implementation Status				
		Implemented	Partially Implemented	Not Implemented	Not Applicable	
Environmental Protection Measures						
Air Quality						
<ul style="list-style-type: none"> ▪ Dust control / mitigation measures shall be provided to prevent dust nuisance. ▪ A buffer zone of at least 100m shall be maintained between the edge of the stockpiling area and the nearest ASRs at the TKO Industrial Estate. Within the buffer zone, no dusty material shall be stockpiled and no loading / unloading and similar activities should be allowed. ▪ Water sprays shall be provided and used to dampen materials. ▪ Regular cleaning and watering the site shall be provided to minimize the fugitive dust emissions. ▪ All vehicles shall be restrict to a maximum speed of 10 km per hour. ▪ Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin. ▪ The designated site main haul rout shall be paved or regular watering. ▪ Frequent watering of work site shall be at least three times per day. ▪ Wheel washing facilities including high pressure water jet shall be provided at the entrance of work site. ▪ Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank. ▪ The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD. ▪ Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD. ▪ When fill material is transfer by belt conveyor systems, the conveyors shall be enclosed on top and 2 sides. ▪ The belt scraper shall be equipped with bottom plates or other similar means to prevent falling of material from the return belt. ▪ The level of stockpiling belt conveyor shall be adjustable such that the vertical distance between the belt conveyor and the material landing point is maintained at no more than 1m. 						
Noise Impact						
<ul style="list-style-type: none"> ▪ The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted. ▪ Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works. ▪ Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials. ▪ Air compressors and hand held breakers should have noise labels. ▪ Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum. ▪ Noisy equipment and mobile plant shall always be site away from NSFs. 						



Appendix K

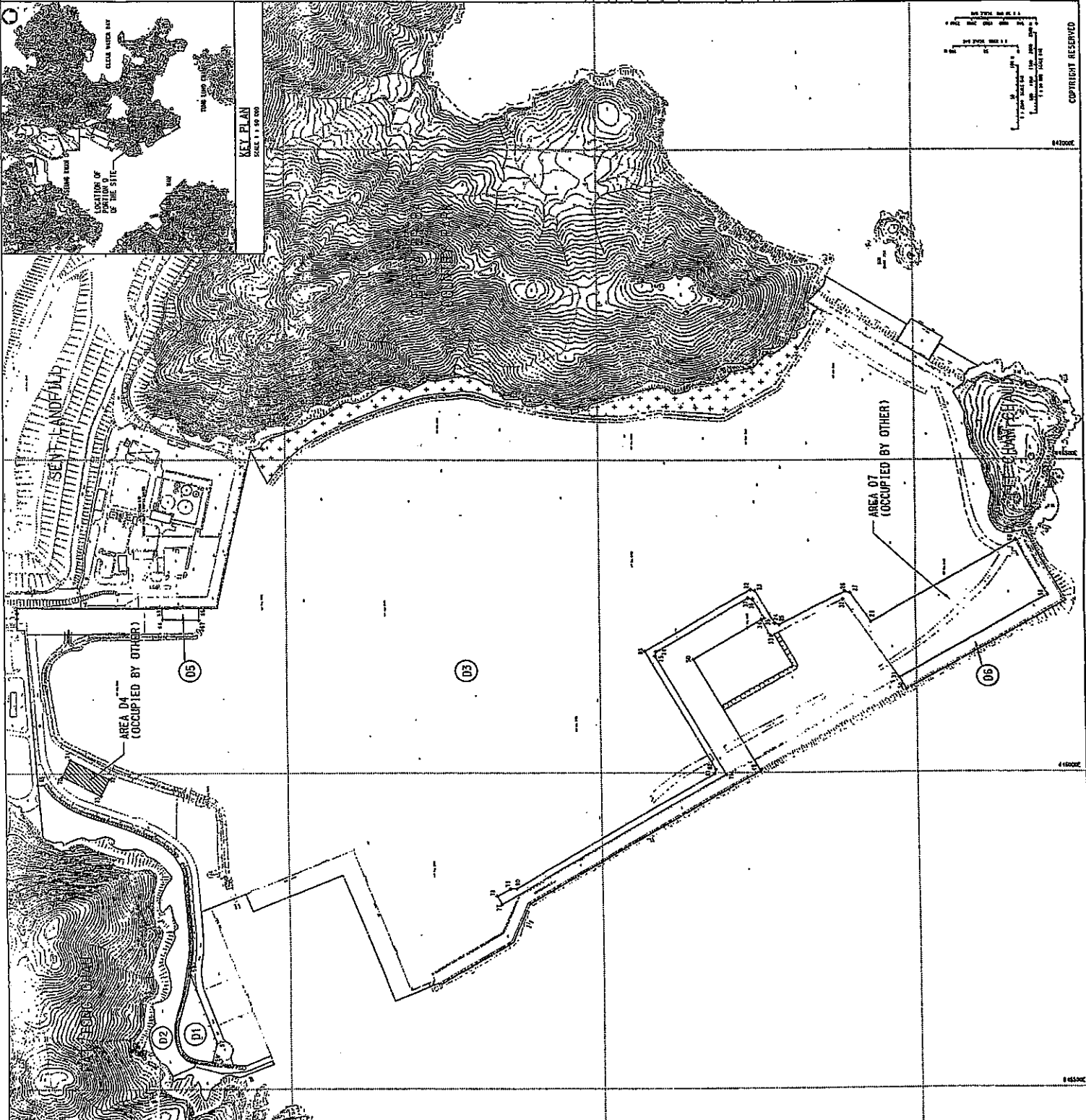
Site General Layout plan

NOTES:
 1. ALL CONCRETE SHALL BE 28 DAY COMPRESSIVE STRENGTH OF 30 MPa.
 2. ALL LEVELS REFER TO MEAN SEA LEVEL UNLESS OTHERWISE SPECIFIED.
 3. DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.

LEGEND:
 - SITE BOUNDARY
 - PORTION 1 OF THE PORTLAND
 - DATE: 10/10/2008

KEY PLAN
 SCALE 1:5000

REV. NO.	DATE	DESCRIPTION	BY	CHECKED	SCALE
01	10/10/2008	ISSUED FOR TENDER	Y. S. TAN	Y. S. TAN	1:1000
02	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
03	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
04	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
05	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
06	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
07	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
08	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
09	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
10	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
11	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
12	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
13	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
14	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
15	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
16	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
17	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
18	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
19	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
20	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
21	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
22	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
23	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
24	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
25	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
26	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
27	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
28	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
29	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
30	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
31	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
32	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
33	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
34	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
35	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
36	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
37	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
38	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
39	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
40	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
41	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
42	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
43	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
44	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
45	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
46	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
47	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
48	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
49	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000
50	10/10/2008	REVISED TO REFLECT COMMENTS	Y. S. TAN	Y. S. TAN	1:1000



SETTING OUT DETAILS

NO.	DESCRIPTION	COORDINATES (Easting, Northing)
01
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Appendix L

Monitoring Schedule for the Coming Month

CEDD Contract No. CV/2005/12
Operation of Public Fill Reception Facilities at Tseung Kwan O Area 137,
Quarry Bay and Mui Wo

Tseung Kwan O Fill Bank

**Time Schedule for Water Quality Impact Monitoring (WQM),
 Impact Day-time Noise Monitoring (NM) and Impact Air Monitoring (1-hr TSP & 24-hr
 TSP) and Weekly Site Inspection (Weekly SI)**

September 2006

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1 WQM Mid-ebb (07:00-09:00) Mid-flood (17:00-19:00)	2 1-hr TSP, 24-hr TSP
3	4 WQM Mid-ebb (08:30-10:30) Mid-flood (16:30-18:30)	5	6 WQM Mid-ebb (10:00-12:00) Mid-flood (17:30-19:30)	7	8 WQM Mid-ebb (11:30-13:30) Mid-flood (17:30-19:30) 1-hr TSP, 24-hr TSP Weekly SI NM	9
10	11 WQM Mid-flood (07:30-09:30) Mid-ebb (13:45-15:45)	12	13 WQM Mid-flood (09:45-11:45) Mid-ebb (15:15-17:15)	14 1-hr TSP, 24-hr TSP Weekly SI	15 WQM Mid-ebb (07:30-09:30) Mid-flood (17:30-19:30)	16
17	18 WQM Mid-ebb (09:00-11:00) Mid-flood (16:30-18:30)	19	20 WQM Mid-ebb (10:15-12:15) Mid-flood (17:00-19:00) 1-hr TSP, 24-hr TSP Weekly SI	21	22 WQM Mid-ebb (11:30-13:30) Mid-flood (17:00-19:00)	23
24	25 WQM Mid-flood (07:00-09:00) Mid-ebb (12:45-14:45)	26 1-hr TSP, 24-hr TSP Weekly SI	27 WQM Mid-flood (08:15-10:15) Mid-ebb (14:00-16:00)	28	29	30 WQM Mid-ebb (07:00-09:00) Mid-flood (16:00-18:00)



Appendix N

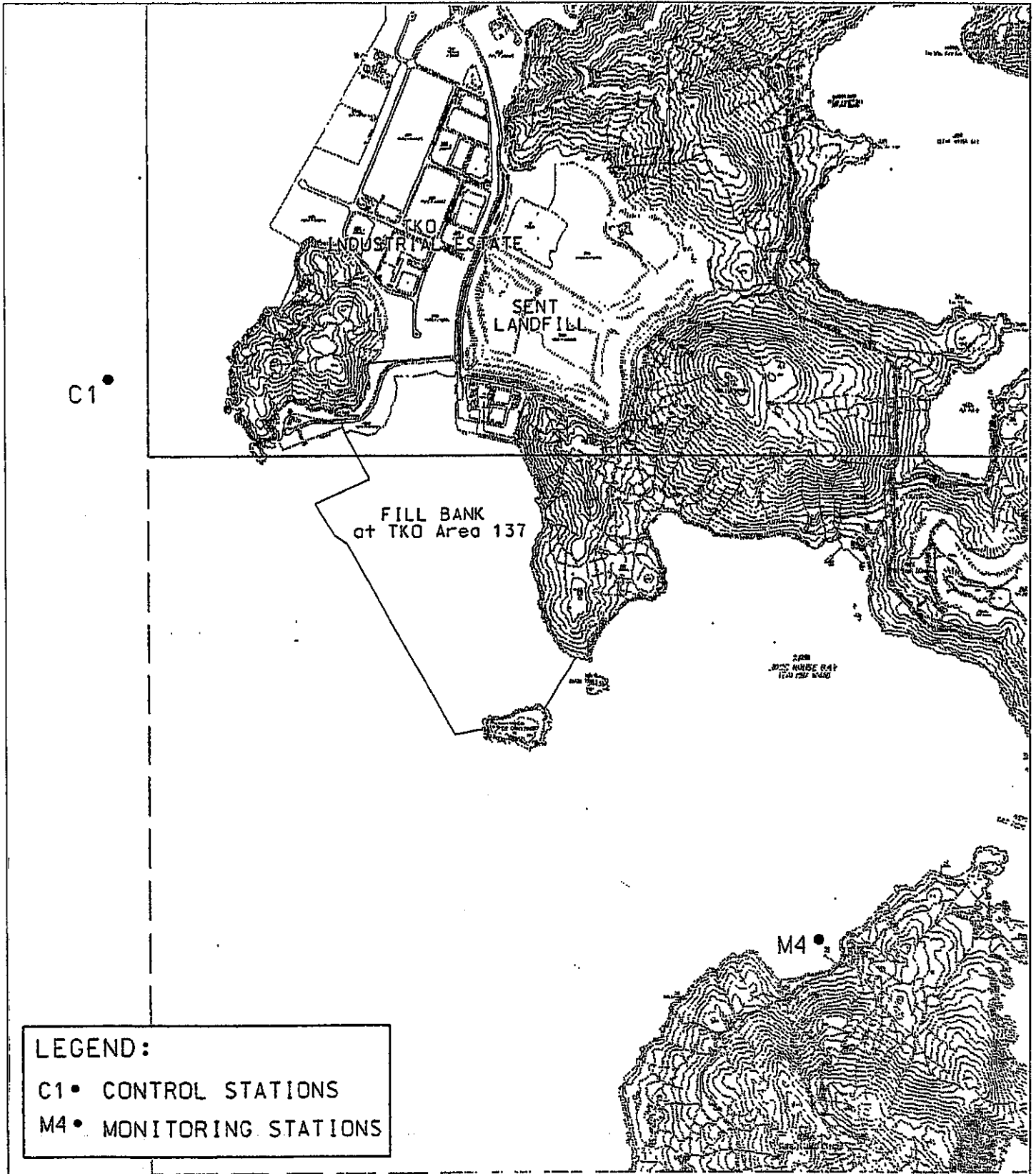
Complaint Log

Complaint Logs

Log Ref.	Location	Received Date	Details of Complaint	Investigation / Mitigation Action	Status
001	Wan Po Road near TVB City	27 March 2006	A complaint was received by EPD on 27 March 2006, concerning the dust and debris on Wan Po Road near TVB City Caused by dump trucks from CEDD site.	<p>In response to the complaint, EPD, RE and Contractor had taken a joint site investigation on 27 March 2006. During this joint site investigation, the performance of the wheel washing facilities was found satisfactory in cleaning the wheels of outgoing dump trucks. Besides, the area where vehicle washing takes place and the section of the road between the washing facilities and the exit point was paved with concrete. It is no evidence to show the complaint was not related to the Fill Bank and it is believed that traffic other than Fill Bank (such as dump trucks from the Construction Waste Sorting Facility) deposited the mud and debris to road surface as they travel through Wan Po Road.</p> <p>Although the complaint was not related to the operation of Fill Bank, some mitigation measures has been taken by the Contractor to maintain the haul road and Public road:</p> <ul style="list-style-type: none"> • The Contractor arranged water lorries to carry out ad-hoc additional washings on the section of Wan Po Road as well as the access road concerned during and after the joint site visit; • The Contractor arranged road sweeper to carry out routine cleaning the haul road and the public roads outside the Fill Bank including the section of Wan Po Road nearby TVB City; • All dump trucks and other vehicle were washed and removed all dusty materials from its body and wheels through wheel washing facilities before leaving the Fill Bank; and • Main haul road was sprayed with water by using mist-spraying system to maintain the road surface wet. <p>From ET's weekly site inspection on 30 March 2006, it was noted that no dust and debris were observed on the Wan Po Road. The haul road and public road near the exit point were found wet and clean (Appendix C). Wheel washing facilities were operated properly and all dump trucks and other outgoing vehicles were washed by passing through the wheel washing facilities before leaving the Fill Bank. No violation relating depositing of debris and mud on road surface was observed during the site inspection. Hence, it was believed that the complaint was not related to the operation of Fill Bank and no further action was required to be implemented.</p>	Closed



Figures



Contract No. CV/2005/12

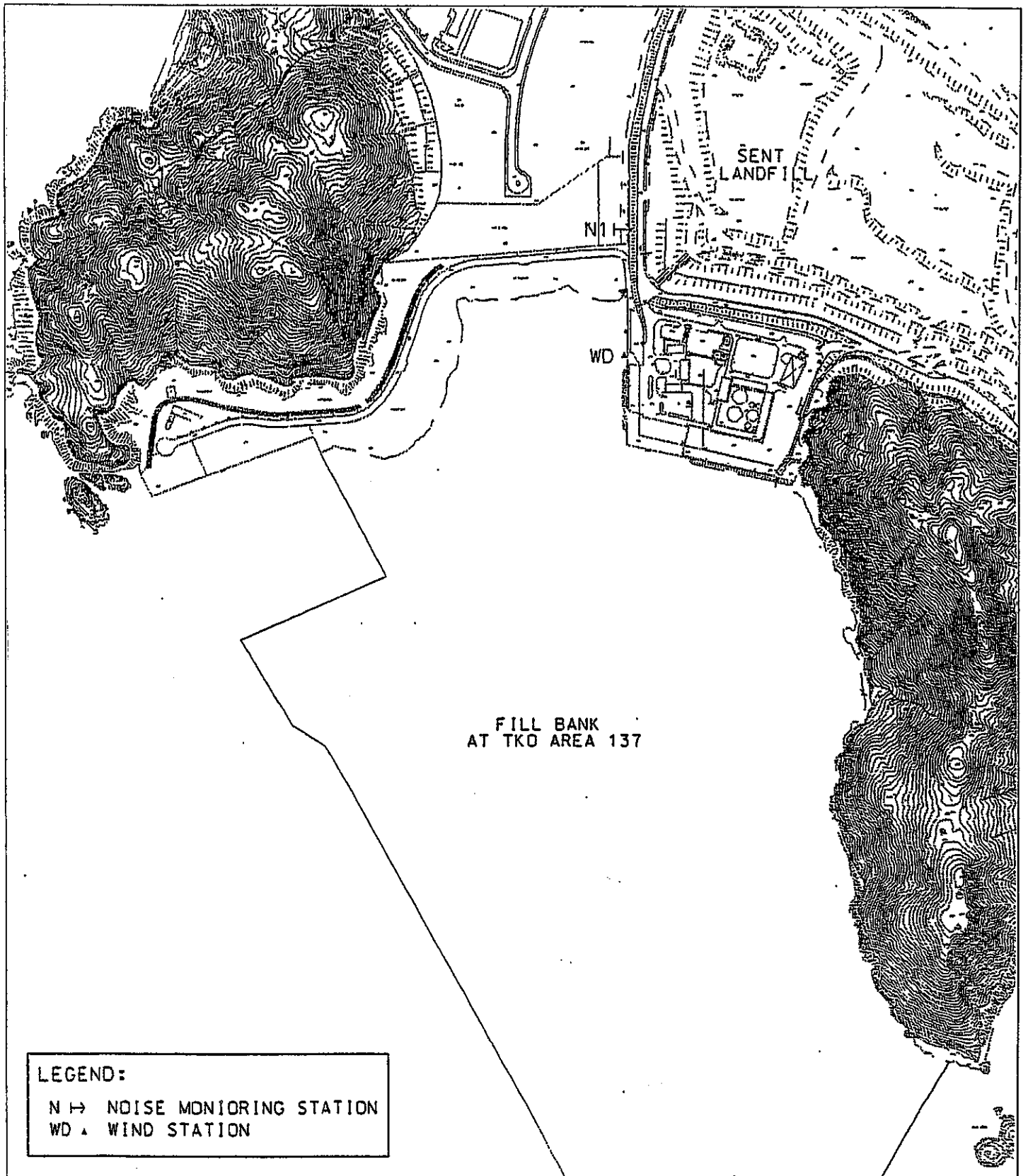
Operation of Public Fill Reception Facilities at Tseung Kwan O Area 137, Quarry Bay and Mui Wo

Figure 1

Locations of Water Quality Monitoring Stations –
 Fill Bank at Tseung Kwan O Area 137



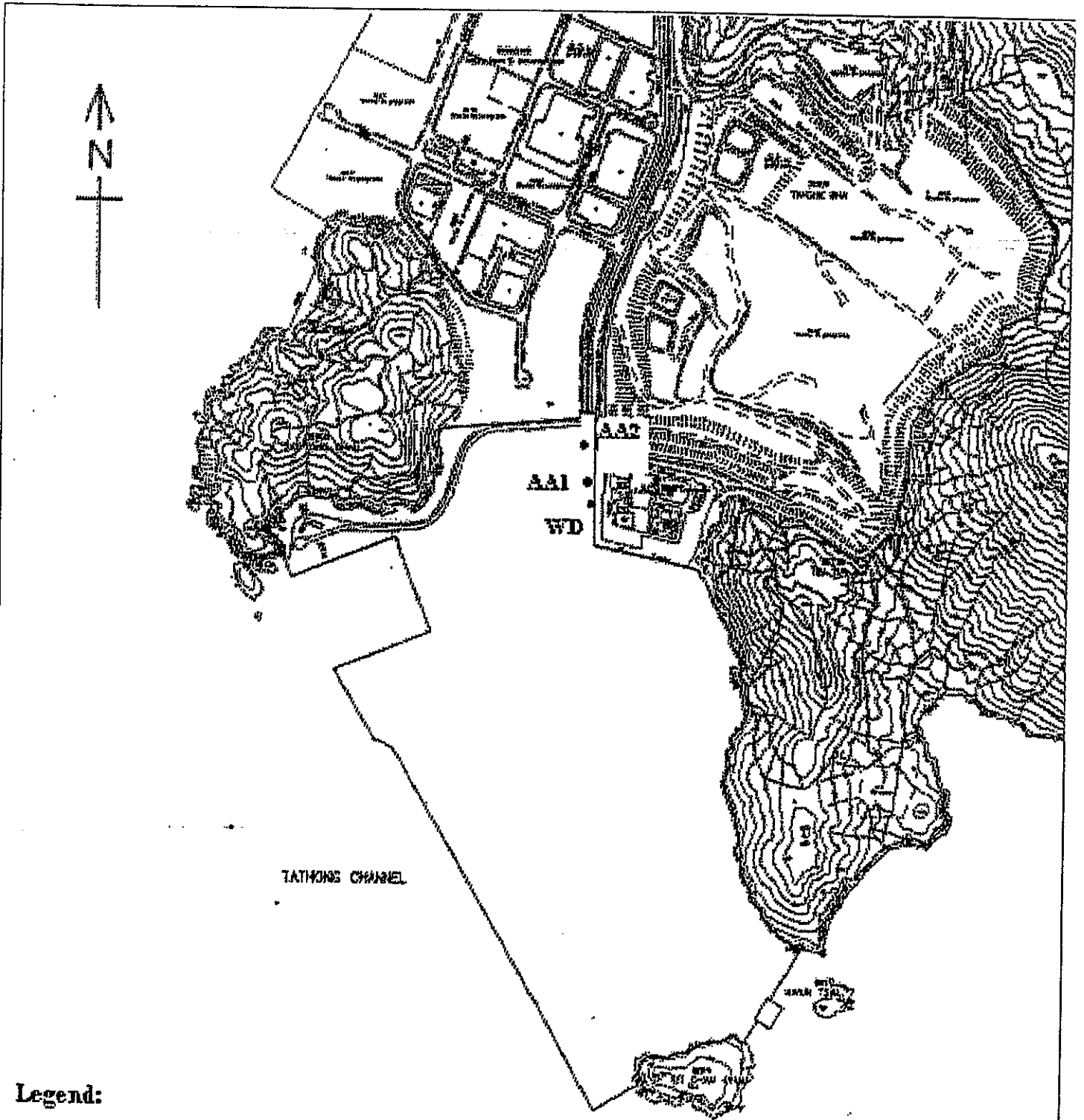
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 ETS-TESTCONSULT LIMITED



LEGEND:
 N ↻ NOISE MONITORING STATION
 WD ▲ WIND STATION

Contract No. CV/2005/12
 Operation of Public Fill Reception Facilities at Tseung Kwan O Area 137, Quarry Bay and Mui Wo

Figure 2
 Locations of Noise Monitoring Station –
 Fill Bank at Tseung Kwan O Area 137



Legend:

AA * Air Monitoring Stations

WD ■ Wind Station

Contract No. CV/2005/12

Operation of Public Fill Reception Facilities at Tseung Kwan O Area 137, Quarry Bay and Mui Wo

Figure 3

Locations of Air Quality Monitoring Stations –
Fill Bank at Tseung Kwan O Area 137



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