#### MONTHLY MONITORING REPORT

Highways Department

Route 9 Between Tsing Yi and Cheung Sha Wan - Phase 1 Ngong Shuen Chau Viaduct: *Monthly Monitoring Report* (*November 2002*)

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# EP - 085/2000/C Route 9 Between Tsing Yi and Cheung Sha Wan Phase 1 Ngong Shuen Chau Viaduct

# Monthly Monitoring Report November 2002

Certified by the Environmental Team Leader Environmental Resources Management

Signed: \_\_\_\_\_

Date: 6.11. 2002

Mr Freeman Cheung Executive Director

Verified by the Independent Environmental Checker Hyder Consulting Ltd, Environmental Division

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1.5. happing Date: 8/11/02

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# **EXECUTIVE SUMMARY**

This is the third monthly Environmental Monitoring and Audit (EM&A) report for the Project HY/2000/21 - Route 9 Ngong Shuen Chau Viaduct. This report presents the results of the EM&A works conducted during the month of October 2002 (between 29<sup>th</sup> September 2002 and 28<sup>th</sup> October 2002) in accordance with the EM&A Manual which forms part of the EIA Report (Register No. AEIAR-018/1999).

During the month of October 2002, the following construction activities have taken place:

- Site Clearance;
- Site investigation;
- Traffic and utilities diversions;
- Hoarding erection;
- Tree transplanting;
- Steel piling; and
- Bored piling at Area P1-SA6 and P1-SA13.

Construction works have been carried out during evening time on 9 and 18 October 2002 (any day not being a general holiday between 1900 and 2300) during the reporting period.

Monitoring of 24-hour Total Suspended Particulates (TSP) and noise was performed and the results were checked and reviewed. Site audits were conducted on a weekly basis. The implementation of environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also reviewed.

#### Air Quality

For 1-hr. TSP monitoring, a total of 30 sets of measurement were carried out during the reporting month and all were below the Action and Limit (AL) Levels.

For 24-hr. TSP monitoring, a total of 10 sets of measurement were carried out during the reporting month and all were below the AL Levels.

#### Noise

#### Daytime Monitoring

A total of 10 sets of  $L_{eq}(30\text{min})$  measurement during Daytime (i.e. 0700 to1900 hours on normal weekdays) were carried out during the reporting month and all measured levels were below the Action and Limit (AL) Levels.

#### Evening-time Monitoring

A total of 2 noise exceedances were both recorded at the noise sensitive receiver, NSR 2 on 9 and 18 October 2002. In summary, the exceedances were attributable to nearby traffic noise as reflected by high  $L_{10}$  and field records. Notifications of Exceedances were submitted to IEC and EPD. IEC verbally confirmed that all exceedances were unlikely to be due to the Project construction's activities due to the large separation between the works area and monitoring station.

#### Night-time Monitoring

Since no construction works were undertaken during night-time, therefore no noise monitoring was carried out for these periods during the reporting month.

#### Waste Management

Approximately 616 m<sup>3</sup> of Excavated Materials were produced on-site and have been delivered to the government approved public filling area in Tuen Mun Area 38 during the reporting month.

Approximate 2.52 tonnes of C&D Wastes were produced on-site and have been delivered to the SENT landfills during the reporting period.

#### **Site Inspection**

Weekly site inspections were undertaken by the ET and the major findings are summarized as follows:

Item	Findings	Proposed Mitigation Measures	Environmental Outcome
1	Accumulation of water in drip tray at chemical/fuel storage area was observed.	Contaminated water collected and disposed of properly.	The wastewater was collected and temporary stored at the chemical waste storage area.
2	Idling equipment was observed at P1-SA13 (CC402) and P1-SA6.	Idling equipment should be switched off while not in use.	The idling equipment was switched off accordingly.
3	Stockpiles and exposed surface were not covered properly at Area P1-SA6 (facing Sewage Treatment Plant)	Cover the stockpiles and exposed surface.	CHEC covered the stockpiles by tarpaulin accordingly.
4	Haul roads and unpaved area were found dry and dust emission was observed.	The haul roads should be frequently cleaned and watered to minimize the fugitive dust emissions.	Labours were allocated to conduct water spraying on site.
5	Site runoff accumulate on- site especially in wheel washing bays.	Site runoff should be diverted to temporary sedimentation tanks for treatment before discharge.	Temporary measures were employed. Permanent drainage system and new wheel washing bays being arranged by CHEC.

IEC Audit was carried out on 25<sup>th</sup> October 2002 and the major findings are as follows:

Item	Findings	Proposed Mitigation Measures	Environmental Outcome
1	Wheel washing facilities were not provided at site exit of area P1-SA6 (CP3/D16) and P1-SA8.	Wheel washing facilities shall be installed and used by all vehicles leaving the site.	The site exits of the mentioned area were closed temporary and the wheel washing facilities being arranged by CHEC.
2	Stockpiles and exposed surface were not covered properly at Area P1-SA6 (facing Sewage Treatment Plant)	Cover the stockpiles and exposed surface.	CHEC covered the stockpiles by tarpaulin accordingly.

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Item	Findings	Proposed Mitigation	Environmental Outcome
		Measures	
3	Haul roads were found dry.	The haul roads should be	CHEC reported that a
		frequently cleaned and	watering browser has been
		watered to minimize the	purchased and labours were
		fugitive dust emissions.	allocated to conduct water
			spraying on site.
4	Silty surface runoff draining	Site runoff should be	Temporary measures were
	outside the site and	diverted to temporary	employed. Permanent
	discharge into the gully next	sedimentation tanks for	drainage system and new
	to the site exit was	treatment before discharge.	wheel washing bays being
	observed. (P1-SA6, facing		arranged by CHEC.
	KMB Depot)		

No formal site inspection was conducted by EPD during the reporting period.

#### **Environmental Licensing and Permitting**

Permits granted to the Project include Environmental Permit for the Project and construction noise permits. Information of these permits is provided in *Table 5.1*.

## **Complaint Log**

One environmental complaint was received during the reporting period.

There were totally 3 complaints received for the Route 9 Phase 1 Ngong Shuen Chau Viaduct contract since the commencement of the construction. All the complaint cases were handled in accordance with the complaint investigation procedures.

#### **Notification of Summons and Prosecutions**

No notification of summons and prosecutions regarding non-compliance of environmental performance of the construction site was received during the reporting period.

# Future Key Issues

The tentative program of major site activities as well as the impact prediction and control measures for the coming three months, i.e. October 2002 to January 2003 are summarized as follows:

Construction Works	Major Impact Prediction	Control Measures
Bore piling, pre-drilling and excavation	Dust impact	<ul> <li>Frequent watering of haul road and unpaved areas;</li> <li>Frequent watering or covering the open area/stockpiles with tarpaulin;</li> <li>Maintain onsite machinery and vehicles regularly;</li> </ul>
	Generation of silty water	<ul> <li>The wastewater produced will be collected and recycled on-site if possible;</li> <li>The footing of hoardings will be sealed to avoid untreated wastewater from entering the existing drainage system; and</li> <li>The collected effluent will be diverted to de-silting facilities for treatment before discharge to public drains.</li> </ul>

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Construction Works	Major Impact Prediction	Control Measures
	Noise Impact	<ul> <li>Schedule of the noisy construction activities if necessary to avoid persistent noisy operation.</li> <li>Control the number of plant use on site.</li> </ul>

# 1. INTRODUCTION

ERM-Hong Kong, Ltd (ERM) was appointed by the Highways Department to undertake the role of the Environmental Team Leader for Route 9 between Tsing Yi and Cheung Sha Wan Phase 1 – Ngong Shuen Chau Viaduct" (hereinafter called the "Project").

Under the requirements of Section 4 of Environmental Permit EP085/2000/C, EM&A programme is required to be implemented as set out in the Environmental Monitoring and Audit (EM&A) Manual which forms part of the EIA Report (Register No. AEIAR-018/1999).

#### **1.1 Purpose of the Report**

This is the 3<sup>rd</sup> monthly EM&A report which presents the results and findings of all EM&A works for the Project between 29<sup>th</sup> September 2002 and 28<sup>th</sup> October 2002.

#### **1.2** Structure of the Report

The structure of the report is as follows:

- Section 1: **INTRODUCTION** details the scope and structure of the report.
- Section 2: **PROJECT INFORMATION** summarizes the background and scope of the project, project organization, construction programme and the construction works undertaken during the reporting period.
- Section 3: <u>ENVIRONMENTAL MONITORING REQUIREMENTS</u> summarizes the monitoring programmes, Action and Limit Levels, Event Action Plans, environmental mitigation measures as recommended in the EIA Report and relevant environmental requirements.
- Section 4: IMPLEMENTATION STATUS ON ENVIRONMENTAL PROTECTION REQUIREMENTS – summarizes the implementation of environmental protection measures during the reporting period.
- Section 5: ENVIRONMENTAL LICENCE AND PERMITTING <u>REQUIREMENTS</u> – summarizes the environmental licences and permits obtained or being applied during the reporting period.
- Section 6: <u>MONITORING RESULTS</u> reports the monitoring results obtained in the reporting period.
- Section 7: <u>AUDIT RESULTS</u> summarizes the audit findings in the reporting period.
- Section 8: <u>COMPLAINTS, NOTIFICATIONS OF SUMMONS AND</u> <u>PROSECUTIONS DURING THE REPORTING PERIOD</u> – summarizes the complaints, notifications of summons and prosecutions recorded during the reporting period.
- Section 9: <u>FUTURE KEY ISSUES</u> summarizes the future key issues as reviewed from the works programme and work method statements.
- Section 10: **<u>RECOMMENDATIONS AND CONCLUSIONS</u>**

# 2. **PROJECT INFORMATION**

#### 2.1 Background

The Design and Construction Consultancy Assignment "Agreement No. CE72/98 Route 9 between Tsing Yi and Cheung Sha Wan" was awarded to Ove Arup and Partners Hong Kong Ltd (Arup).

The construction of the Phase 1 of the Route 9 Project comprises of the Ngong Shuen Chau Viaduct and its link with CT8, R9T Cheung Sha Wan – Shatin, and West Kowloon Highway, has been awarded to China Harbour Engineering Company (Group) (CHEC) on 10 April 2002. The construction works was commenced on 29<sup>th</sup> July 2002 and is scheduled to be completed by December 2006.

#### 2.2 Site Description

Phase 1 works area is located in urban area. The sensitive receivers are mainly residential buildings and schools at Mei Foo Sun Chuen and the dwellings at Stonecutters Military Base. The works area is shown in *Appendix A*.

#### 2.3 **Project Organisation**

The project organization chart and contact details are shown in *Appendix B*.

#### 2.4 **Project Work Programme**

The project works programme for the coming three months is presented in *Appendix C*. The major site activities undertaken during the reporting month are summaries in *Table 2.1*.

Table 2.1 Site Activities undertaken from 29<sup>th</sup> September 2002 to 28<sup>th</sup> October 2002

Area	Details of Site Activities
P1-SA6	Excavation, Utility Diversion, Bore Piling and Site Investigation
P1-SA8	Hoarding Erection and Site Investigation.
P1-SA10	Modification of the existing wheel washing facilities.
P1-SA13 and 14	Bored Piling and Utility Diversion.
P1-SA15	Stockpile of excavated material to be reused on site.

# **3.** ENVIRONMENTAL MONITORING REQUIREMENTS

#### 3.1 Air Quality

#### Monitoring Requirements

Monitoring of 1-hour and 24-hour TSP was conducted to monitor the construction dust impact. *Appendix D1* shows the established Action/Limit Levels for the environmental monitoring works.

#### Monitoring Frequency and Schedule

The monitoring parameters and frequency are summarized in *Table 3.1*. The monitoring schedule for the reporting period is shown in *Appendix E*.

 Table 3.1 TSP Monitoring Parameter and Frequency

Parameters	Duration / hour	Frequency
24-hour TSP	24	Once Every Six Days
1-hour TSP	1	Three Times Every Six Days

#### Monitoring Locations

In accordance with the EM&A Manual and project specifications, two air quality monitoring locations were selected. Both 1 hour and 24-hour TSP monitoring were performed in the reporting month. The locations of the two monitoring stations are listed in *Table 3.2* and are shown in *Appendix F*.

 Table 3.2
 TSP Monitoring Locations

Location I.D.	Description	
ASR1	Lai Chi Kok Park at Mei Foo Sun Chuen (at the roof of the toilet block)	
ASR2	DSD Pumping Station (in the proximity of Stonecutters Military Base)	

Wind data monitoring was carried out at a conspicuous location for logging wind speed and wind direction near the dust monitoring locations. Weather station was relocated at the Area P1-SA9 on October 2002.

#### Monitoring Equipment

Continuous 24-hour and 1-hour TSP air quality monitoring was performed using a TE-5170 Tisch Environmental Inc. High Volume Sampler (HVS) was installed at each of the above monitoring stations. The sampler composed of a motor, filter holder, flow controller and a sampling inlet. Its performance specification complies with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50).

Wind data in terms of wind speed and direction was measured using wind data monitor. Details of the monitoring equipment are given in *Table 3.3*. A copy of the calibration certificate for the HVS and wind data monitor are attached in *Appendix G1* and *Appendix G2* respectively.

#### Table 3.3Air Quality Monitoring Equipment

Equipment	Model	Qty.
HVS Sampler	TE-5170 Tisch Environmental Inc.	2
Calibrator	TE-5028A Tisch Environmental Inc.	1

#### Monitoring Procedures and Calibration Details

#### Calibration Procedures

Calibration procedures of HVS were as follows:

- A certified orifice transfer standard with a calibration curve was used for the calibration.
- The transfer standard was connected to the inlet of the sampler. The orifice manometer was then connected to the orifice pressure port. The manometer's connecting tubing was inspected to make sure that there are no leaks between the orifice unit and the sampler.
- The motor was then disconnected from the flow controller and plugged directly to an AC power source.
- A weather station has been setup at the Site Office to measure and record the ambient temperature, Ta (K) and the barometer pressure Pa (mmHg) during calculation.
- The sampler was allowed to run for at least 2 minutes to re-establish the run temperature conditions. The pressure drop across the orifice and the well-type manometer reading was recorded during calibration. The variable resistance was adjusted to repeat recording for four different flow rates.
- The best fit straight line was determined by linear regression and find the slope (m1),

intercept (b1) and correlation coefficient (r).

Certificate for calibration is attached in *Appendix G3*.

#### Operating/Analytical Procedures

- The flow rate of the high volume sampler was set to about 1.1 m<sup>3</sup>/min 1.7 m<sup>3</sup>/min prior to commencement of the dust sampling in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.
- The samplers was located such that:
  - the filter was about 1.3 meters above ground.
  - it was greater than 20 meters away from trees.
  - it was separated from any obstacle by at least twice the height of the obstacle protruding above the sampler.
  - it has unrestricted airflow 270° around the sampler.
- Fibreglass filters were used for TSP sampling (G810) [Note: these filters have a collection efficiency of > 99% for particles of 0.3 mm diameter].
- All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was between 25°C and 30°C and not vary by more than  $\pm 3$ °C; the relative humidity was < 50% and not vary by more than  $\pm 5\%$ .
- A new filter was placed with stamped number upward on a supporting screen.
- The filter was properly aligned on the screen so that the gasket formed an air-tight seal on the outer edges of the filter.
- Shelter lid closed and catch secured with the aluminum strip.
- The sampler was then allowed to run for at least 5 minutes to establish runtemperature conditions.
- The flow indicator reading was recorded and the sampler flow rate was determined.
- The programmable timer was set and the starting sampling time, weather condition and the filter number was recorded.
- At the end of sampling, the filter was transferred from the filter holder of the HVS to a sealable plastic bag and sent to the laboratory for weighing. The elapsed time was also recorded.
- Before weighing, all filters were equilibrated in a desiccator for 24 hours with temperature of 25°C±3°C and the relative humidity (RH) 50%±5%, preferably 40%.

#### Maintenance

- The volume sampler and their accessories were maintained in good working condition, include replacing motor brushes routinely and checking electrical wiring to ensure continuous power supply.
- The high volume samplers were calibrated at bi-monthly intervals using TE-5028A Tisch Environmental Inc. Calibration Kit throughout all stages of the air quality monitoring.

#### **Event**/Action Plan

The Event/Action Plan for Air Quality is shown in *Appendix H1*.

#### 3.2 Noise Quality

### Monitoring Requirements

Noise monitoring was conducted at two monitoring stations to monitor the construction noise impact. *Appendix D2* shows the established Action/Limit Levels for the environmental monitoring works.

#### Monitoring Frequency and Schedule

Noise monitoring was conducted during the period of 07:00 to 23:00. The monitoring schedule is shown in *Appendix E*. The frequency and parameters of noise measurement are presented in Table 3.4.

Time Period	Duration / min.	Parameters	Frequency
Daytime (0700 to 1900)	$\begin{array}{c} 30\\ (6 \text{ consecutive } L_{eq}(5 \text{min}) \text{ in average}) \end{array}$	L <sub>eq</sub> , L <sub>90</sub> & L <sub>10</sub>	Once per week
*Evening (1900 to 2300)	5	L <sub>eq</sub> , L <sub>90</sub> & L <sub>10</sub>	Six times per week
*Night (2300 to 0700	5	L <sub>eq</sub> , L <sub>90</sub> & L <sub>10</sub>	Four times per week

 Table 3.4 Noise Monitoring Frequency and Parameters

\* Conduct noise monitoring only when there is construction work.

#### Monitoring Locations

next day)

In accordance with the EM&A Manual and project specifications, two noise monitoring stations (as detailed in *Table 3.5* and shown in *Appendix F*) were selected for noise measurement.

 Table 3.5
 Location of the Noise Monitoring Stations

Location I.D.	Description	Type of measurement
NSR1	Lai Chi Kok Park at Mei Foo Sun Chuen (at the roof of the toilet block)	Free Field
NSR2	DSD Pumping Station (in the proximity of Stonecutters Military Base)	Free Field

### Monitoring Equipment

Integrating Sound Level Meters were used for noise monitoring which were Type 1 sound level meters capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level ( $L_{eq}$ ) and percentile sound pressure level ( $L_x$ ). They comply with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1). Also, a portable electronic wind speed indicator capable of measuring wind speed in m/s was used to monitor the wind speed. *Table 3.6* summarizes the noise monitoring equipment used.

#### Table 3.6 Noise Monitoring Equipment

Equipment	Model
Integrating Sound Level Meter	SC-30, CESVA
Calibrator	CB-5, CESVA
Portable Wind Speed Indicator	PWM1, Dwyer

#### Monitoring Procedures and Calibration Details

#### Field Monitoring

- The microphone of the Sound Level Meter (with weatherproof kit) was mounted on a tripod at a height of 2m above ground level.
- For free field measurement, the meter was positioned away from any nearby reflective surfaces.
- AC power supply was checked to ensure good 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 : 30 minutes / 5 minutes
- Prior to and after each noise measurement, the meter was calibrated using the Calibrator for 94 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1 dB (A), the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
- The wind speed was frequently checked with the portable wind meter.
- At the end of the monitoring period, the  $L_{eq}$ ,  $L_{90}$  and  $L_{10}$  were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- Noise measurement was paused during periods of high intrusive noise if possible and observation was recorded when intrusive noise was not avoided.

• Noise monitoring was cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s.

#### Maintenance and Calibration

- The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
- The meter was sent to the supplier to check and calibrate yearly.
- Calibration certificates are attached in *Appendix G3*.

#### **Event/Action Plan**

The Event/Action Plan for Noise impact is presented in *Appendix H2*.

# 4. IMPLEMENTATION STATUS ON ENVIRONMENTAL PROTECTION REQUIREMENTS

The Contractor has implemented environmental mitigation measures and requirements as stated in the EIA Report, the Environmental Permit and EM&A Manual. The implementation status during the reporting period is summarized in *Appendix I*.

# 5. ENVIRONMENTAL LICENCE AND PERMITTING REQUIREMENTS

The status of the permits, licenses and EPD notifications for all relevant environmental issues for this project is summarized in *Table 5.1* of the reporting period.

Description	Permit	Valid I	Period	Section	Status / Remarks
Description	No.	From	То	Section	Status / Kemai ks
Environmental Permit	EP- 085/2000 C	15/04/02	-	Whole work site	Valid
Chemical Waste Producer Registration	WPN – 5213- 269- C3215-01	15/04/02	-	Whole construction site	Valid (for disposal of empty fuel/lubricant drums, scrap batteries, spent lubricating oil, diesel, mineral oil and solvent)
Waste Water Discharge License	EP482/26 9/0038/I	15/04/02 (revised on 02/08/02)	30/06/07	Whole construction site	Valid (carry out analyses on a quarterly basis)
Construction Noise Permit	GW- UE0352- 02	25/09/02	16/03/03	Lai Wan Interchange near West Kowloon Highway & Lai Po Road	Valid (Any day from 0700h - 2300h)
Construction Noise Permit	GW- UE0353- 02	25/09/02	16/03/03	Hing Wah Street West between Container Port Road South Roundabout	Valid (Any day from 0700h - 2300h)

 Table 5.1 Summary of Environmental Licensing, Notification and Permit Status

Description	Permit	Valid Period		Section	Status / Remarks
Description	No.	From	То	Section	Status / Kemarks
Construction	GW-	25/09/02	16/03/03	Construction	Valid
Noise Permit	UE0354-			Site below	(Any day from
	02			West Kowloon	0700h - 2300h)
				Highway near	
				Hing Wah	
				Street West	
Construction	PP-	13/07/02	08/01/03	West Kowloon	Valid
Noise Permit	UE0051-			Highway	(Any day not
	02			Flyover near	being a general
				Hing Wah	holiday from
				Street. West	0700h-1900h)
Construction	PP-	13/07/02	08/01/03	Hing Wah	Valid
Noise Permit	UE0055-			Street. West off	(Any day not
	02			Kowloon	being a general
				Refuse Transfer	holiday from
				Station	0800h-0930h,
					1230h-1400h,
					1700h-1900h)
Construction	PP-	10/08/02	30/01/03	Lai Po Road off	Valid
Noise Permit	UE0063-			KMB Depot	(Any day not
	02				being a general
					holiday from
					0700h-1900h)

# 6. MONITORING RESULTS

#### 6.1 Air Quality

#### 1-hour TSP

1-hour TSP monitoring was carried out at 2 monitoring stations between  $29^{\text{th}}$  September 2002 and  $28^{\text{th}}$  October 2002. All monitoring data is presented in *Appendix J*. A summary of the measured 1-hour TSP levels is given in *Table 6.1*. Graphical presentation of the 1-hour TSP monitoring results for the reporting month is shown in *Appendix K*.

Location	tion 1-hour TSP( µg/m <sup>3</sup> ) Action Level		Action Level	Limit Level
I.D.	Mean	Range	$(\mu g/m^3)$	$(\mu g/m^3)$
ASR1	159.7	103.8 - 248.4	318	500
ASR2	191.2	90.7 - 263.9	324	500

Table 6.1Summary of 1-hour TSP Impact Monitoring Results

#### 24-hour TSP

24-hour TSP monitoring was carried out at 2 monitoring stations between  $29^{th}$  September 2002 and  $28^{th}$  October 2002. All monitoring data is presented in *Appendix J*. A summary of the measured results is given in *Table 6.2*. Graphical presentation of the results is shown in *Appendix K*.

No exceedance of the Action/Limit Levels of 24-hour TSP was recorded during the reporting period.

Location	24-hour TSP (μg/m <sup>3</sup> )		Action Level	Limit Level
I.D.	Mean	Range	$(\mu g/m^3)$	(µg/m <sup>3</sup> )
ASR1	72.7	40.7 - 90.5	163	260
ASR2	78.7	57.3 - 117.6	178	260

 Table 6.2 Summary of 24-hour TSP Impact Monitoring Results

The wind data monitoring results recorded during the reporting period are summarised in *Appendix L*.

#### **Observations**

There are several significant dust sources identified during the reporting period and they are mainly contributed by the following activities:

- Site clearance;
- Excavation;
- Other construction activities nearby; and
- Traffic.

#### 6.2 Noise

#### Normal Hour Monitoring

Noise monitoring was carried out at all the noise monitoring stations between  $29^{th}$  September 2002 and  $28^{th}$  October 2002. A 3 dB(A) façade correction was made to the free field measurements at the monitoring stations. All corrected noise levels are presented in *Appendix M1*. A summary of the results is given in *Table 6.3*. Graphical presentation of the monitoring results for the reporting month is shown in *Appendix N1*.

No exceedance of the Action/Limit Levels of Noise for normal hour monitoring was recorded during the reporting period.

Table 6.3	Summary of Cor	rected Impact Noise	e Levels for Norma	l Hour Monitoring

Daytime	Noise Level, dB(A)				
0700-1900 hrs on	Mean ( Range )				
normal weekdays	Leq	L <sub>10</sub>	L <sub>90</sub>		
NSR1*	64.1	67.3	60.7		
	(60.0 - 67.4)	(61.5 - 71.8)	(58.3 - 62.0)		
NSR2*	60.2	62.8	55.7		
	(58.1 - 62.1)	(60.4 - 65.0)	(53.4 - 58.0)		

\* Free-field measurement

#### **Observations**

The major noise sources during the normal hour in this reporting period were dominated by the following activities:

- Bored piling;
- Excavation;
- Traffic noise; and
- Other construction works nearby.

## **Restricted Hour Monitoring**

Construction works were carried out at site area P1-SA13 during Evening-time (i.e. 1900 - 2300 hours) on 9 and 18 October 2002 and noise monitoring was carried out at all the noise monitoring stations. All corrected noise levels are presented in *Appendix M2*. A summary of the results is given in *Table 6.4*. Graphical presentation of the monitoring results for the reporting month is shown in *Appendix N2*.

A total of 2 noise exceedances were recorded at the noise sensitive receiver, NSR 2, on 9 and 18 October 2002. In summary, the exceedances were attributable to nearby traffic noise as reflected by high  $L_{10}$  level recorded during the measurement period, owing to the fact that vehicles in the area travel at higher speed in the evening. Notifications of Exceedances were submitted to IEC and EPD. IEC verbally confirmed that all exceedances were unlikely to be due to the Project construction's activities since the large distance between the works are and monitoring station.

Since the monitoring location, NSR2 is quite some distance away from the con-current construction area, therefore, it was decided that the noise measurement for restricted hour monitoring will only be conducted at the closest noise monitoring location, NSR 1 in the coming reporting month.

Evening-time	*Noise Level, dB(A)				
(1900-2300	Mean ( Range )				
hrs)	Leq	L <sub>10</sub>	L90		
NSR1*	60.2	62.8	55.7		
	(58.1-62.1)	(60.4-65.0)	(53.4-58.0)		
NSR2*	75.0	78.9	68.4		
	(73.8-76.6)**	(78.0-80.1)	(7.1-69.3)		

 Table 6.4 Summary of Corrected Impact Noise Levels for Restricted Hour Monitoring

\* A 3dB (A) façade correction was made to the Free-field measurements \*\* Noise exceedances recorded on 9 and 18 October 2002at NSR2.

#### **Observations**

The major noise sources during the restricted hour monitoring were dominated by the traffic noise.

# 7. AUDIT RESULTS

## 7.1 Air Quality

The 1-hour and 24-hour TSP measurements at the air monitoring locations were all below the corresponding Action/Limit Levels.

#### 7.2 Noise

For  $L_{eq(30min)}$  measurement, a total of 10 sets of readings measured during daytime (i.e. 0700 to 1900 from Monday to Saturday) were carried out during the reporting period and all measurement results were below the Limit Level.

For restricted hour monitoring, a total of 4 sets of reading measured at NSR1 and NSR2 during evening time (i.e. from 1900 to 2300) were carried out on 9 and 18 October 2002. Noise exceedances were both recorded at the NSR 2 on 9 and 18 October 2002. In summary, the exceedances were attributable to nearby traffic noise as reflected by high  $L_{10}$  level recorded during the measurement period, owing to the fact that vehicles in the area travel at higher speed in the evening. Notifications of Exceedances were submitted to IEC and EPD. IEC verbally confirmed that all exceedances were unlikely to be due to the Project construction's activities since the large distance between the works are and monitoring station.

#### 7.3 Waste Management

Wastes from this Project include construction and demolition (C&D) waste, excavated materials, chemical waste and general refuse. The Waste Management Plan has recommended procedures for handling of C&D waste, excavated materials, chemical waste and general refuse.

Based on the information provided by CHEC with respect to relevant handling records and trip tickets of this project, the quantities of different wastes and their handling are summarized in *Table 7.1*.

Material	Туре	Quantity Produced in Oct 02	Handling Method	Handling Quantities in Oct 02	Storage Locations (if applicable)
C&D	(inert	88 no. of	Deliver to Public Fill	88 no. of	N/A
material	waste)	Dump	(Tuen Mun Area 38)	Dump Truck	
		Truck	Reuse on site for filing	N/A	N/A
	(non-	140 kg	To be recycled (paper)	140 kg	P1-SA9
	inert	N/A	To be reused	N/A	N/A
	waste)	N/A	To be returned to supplier	N/A	N/A
		2.52	Collected by licensed	2.52 tonnes	N/A
		tonnes	collector for disposal		
Chemical	waste	2200 L	Collected by licensed	2200L	Chemical
			chemical waste collector		Waste Storage
					Area in P1-
					SA10

Table 7.1 Summary of Different Categories of Waste during the Reporting Period

#### 7.4 Site Inspection by Environmental Team (ET)

Weekly site inspections were conducted by the ET and the major findings are summarized as follows:

- CHEC was reminded that haul roads and exposed areas should be watered regularly to minimize dust impact.
- Idling equipment was observed at P1-SA13 (CC402) and P1-SA6 on 25 October 2002. CHEC was advised to switch off idling equipment while not in use.
- CHEC was advised to protect the u-channel at P1-SA6 (Bus Depot) and P1-SA8 by using suitable bund/sandbags on 8 and 25 October 2002.
- Engine oil containers were not stored properly at Area P1-SA6 and P1-SA13. CHEC had made arrangement to place all fuel/oil tanks within a bunded chemical storage area.
- CHEC was reminded that water accumulated in the wheel washing bay and sedimentation tanks should be pumped to de-silting facilities before discharge, to avoid overflowing and mosquito breeding.

#### 7.5 Site Inspection by Independent Environmental Checker (IEC)

IEC Audit was carried out on 25<sup>th</sup> October 2002 and the major findings are as follows:

• No wheel washing facilities were found at site area P1-SA6 (CP3/D16) and P1-SA8 (near NB41 (M); and it was found that mud and dust was deposited on public roads. CHEC was reminded that wheel washing facilities shall be installed and used by all vehicles leaving the site.

- Stockpiles of excavated material and exposed earth were not covered properly at Area P1-SA6 (facing Sewage Treatment Plant). With respect to this situation, CHEC had made arrangements to cover the stockpiles using tarpaulin accordingly.
- Silty wheel washing water overflowed and discharged into the gully next to the site exit was observed at Area P1-SA6 (facing Bus Depot). CHEC reported that new wheel washing facilities will be in place soon. CHEC was advised to made arrangement to collect and settled the waste water in the temporary sedimentation tanks for proper treatment before final discharge.
- CHEC was reminded to frequently clean and water the site to minimize the fugitive dust emissions.

#### 7.6 Site Inspection by Environmental Protection Department (EPD)

No formal site inspection was conducted by EPD during the reporting period.

# 8. COMPLAINTS, NOTIFICATIONS OF SUMMONS AND PROSECUTIONS

#### 8.1 Summary of Complaints

One complaint was received during the reporting period. The details of the complaints and the follow up actions are presented in *Table 8.1*.

Table 8.1	Summary of Complaints Received between 29 <sup>th</sup> Septem	<i>iber 2002 and 28<sup>th</sup>October</i>
	2002	

Case No.	EC2002/03		
Received Date (Complaint Mode)	Verbal complaint referred by HyD on 15 October 2002.		
Parameters	The stacking of grass within the fenced area between the Lai Po Road northbound and MTRC boundary fence.		
Description	Complaint received by ICC on 15 October 2002 and referred by HyD/ H/Q on 17 October 2002 regarding the stacking of grass within the fenced area between the Lai Po Road northbound and MTRC boundary fence.		
	The fenced area was a vacant Government Land maintained by District Land Office (DLO). The sub-contractor of DLO carried out grass cutting on 12 October 2002.		
Follow-up Action	• Investigation was conducted by RSS on 15 October 2002; and the stack of grass stockpiled was found inside the fenced area.		
	• After consultation with HyD, LCSD and DLO, DLO confirmed that the grass was cut by his contractor and replied that the stack of grass would be removed from the area within a week.		
	• A follow-up site meeting was held between DLO and RSS on 21 October 2002. The stacks of grass had been removed from site.		
Recommended Mitigation Measures	The stack of grass should be removed from the concerned area.		
Status/ Remarks	Closed		
	• A comprehensive letter was sent to the complainant on 22 October 2002.		

The summary for all the complaints received since the commencement of the Contract is presented in *Table 8.2*. The details of previous complaints and statistics are attached in *Appendices 01* and *02* respectively.

Total No. of	No. of complaint received within reporting period	No. of Active	No. of Inactive/Closed
Complaint Received		Complaint	Complaint
3	1	0	3

### Table 8.2 Summary of Total Complaint Received

#### 8.2 Summary of Notification of Summon and Prosecution

No notification of summons or prosecutions was received regarding the non-compliance of the environmental performance of the construction site since the commencement of works.

# 9. FUTURE KEY ISSUES

#### 9.1 Key Issues for the Coming Month

Works to be taken for the coming monitoring period will be similar to the previous month as follows:

- Utilities diversion, detection and trial pit excavation;
- Hoarding Erection;
- Pre-drilling;
- Plant mobilization;
- Sheet piling; and bored piling.

Potential environmental impacts arising from the above construction activities are mainly associated with dust, noise, site runoff and waste. However, with the implementation of the following mitigation measures, potential impacts to the surrounding sensitive receivers could be minimised:

#### Construction Dust

- Frequent watering of haul road and unpaved areas;
- Prohibition of any open burning on site;
- Investigation of other dust sources near air sensitive receivers;
- Regularly watering or covering the open area/stock piles with tarpaulin;
- Hydroseeding or covering the inactive sandfill area with impervious sheeting if necessary;
- Switching off vehicles and equipments while not in use; and
- Maintaining onsite machinery and vehicles regularly.

#### Construction Noise

- Identification of noise sources arising within or outside worksite;
- Follow-up of any exceedance caused by the construction works.

#### Construction Runoff

- Identification of sources of wastewater generate from the site;
- Provision of sandbags/bunds/channel to direct site surface run-off to silt/sand removal facilities; and
- Treatment of wastewater and surface run-off prior to disposal.

#### Construction Waste Management

- Avoidance of accumulation of waste materials or rubbish on site;
- Collection of chemical waste or oil and disposal of as chemical waste; and
- Regularly removing of waste materials on site.

#### 9.2 Monitoring Schedule for the Coming Three Months

The tentative schedules for dust and noise monitoring from 29<sup>th</sup> October 2002 to 28<sup>th</sup> January 2002 are attached in *Appendix P*.

# **10. RECOMMENDATIONS AND CONCLUSIONS**

#### 10.1 Conclusions

This Environmental Monitoring and Audit (EM&A) report presents the EM&A works undertaken during the month from 29<sup>th</sup> September 2002 to 28<sup>th</sup> October 2002 in accordance with EM&A Manual which forms part of the EIA Report (Register No. AEIAR-018/1999).

All 1-hour and 24-hour TSP monitoring were carried out at the 2 monitoring stations and their results were well below the Action/Limit Levels.

Noise monitoring of  $L_{eq(30min)}$  was carried out at the 2 monitoring stations during the reporting period.

A total of 2 noise exceedances were recorded at the noise sensitive receiver, NSR 2 on 9 and 18 October 2002. Notifications of Exceedances were submitted to IEC and EPD; and IEC verbally confirmed that all exceedances were unlikely to be due to the Project construction activities.

One complaint was received during the reporting period. In total, three complaints were received since the commencement of construction works.

No prosecution or summons was received for this Contract since the commencement of construction works.

The environmental monitoring results indicated that the site activities undertaken by the Contractor during the reporting period were in general comply with the relevant environmental requirements, except for deficiencies found during site audits as stated in <u>Section 7.4</u>, <u>7.5</u> and <u>7.6</u> of this report.

#### **10.2** Recommendations

According to the environmental audits undertaken during the reporting month, the following recommendations are made:

#### Construction Dust

- Site access road and bare soil should be watered regularly to ensure the soil surface is wet;
- Dusty areas should be watered frequently during hot/dry weather; and
- Stockpiles of excavated material should be covered properly by tarpaulin.

#### Construction Noise

- The number of plant operating should not exceed the allowable plant number for each construction activity stated in the Construction Noise Permit; and
- Noisy equipment should be located away from nearby NSRs.

#### Water Quality

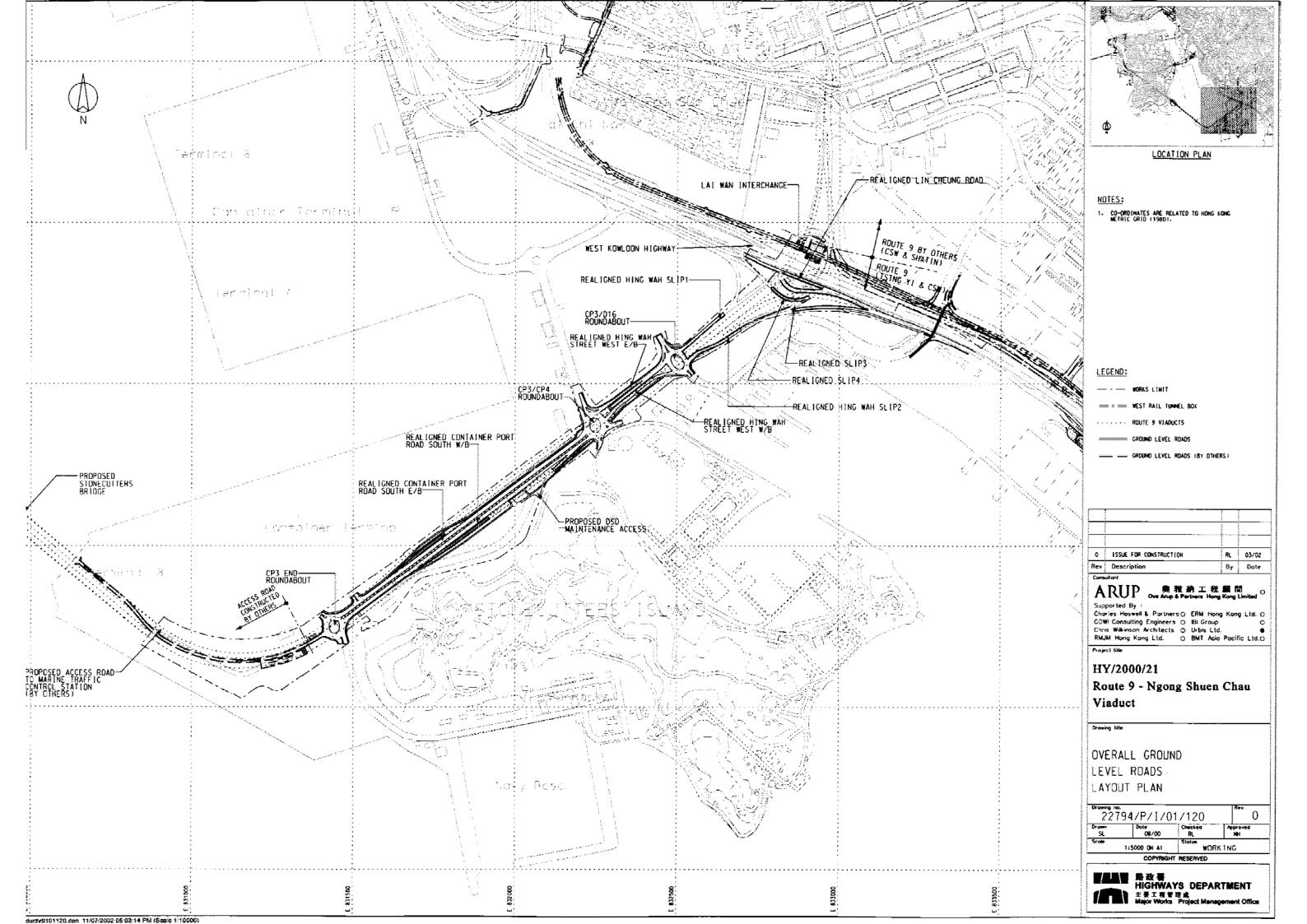
- All surface runoff/wastewater should be diverted to appropriate water treatment facility before disposal;
- Sedimentation tanks/basins should have adequate capacity for settling surface runoff;
- Wheel washing facilities should be installed and used by all vehicles leaving the site;
- Vehicle and plant servicing area, wheel washing bay should be connected to storm drains via a petrol interceptor;
- Site hoarding should be tightly sealed at the bottom to prevent seepage of surface runoff from the site; and
- Accumulation of water in drip tray at chemical/fuel storage area should be avoided.

#### Waste Management

- Surface water which contaminated with oil or petrol should be collected and disposed of as chemical waste;
- All type of wastes should be collected by licensed waste collectors; and
- Good housekeeping should be implemented.

Appendix A

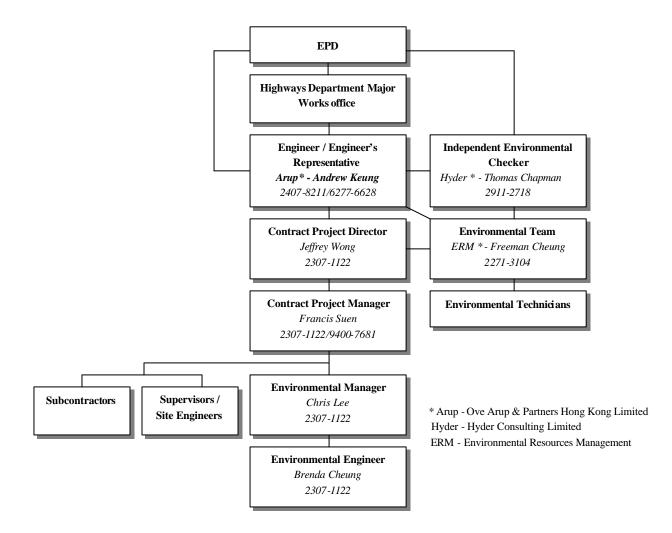
Site Layout Plan



# Appendix B

# **Project Organization Chart and Contact Detail**

#### **Appendix B: Project Organization Chart and Contact Details**



Appendix C

**Project Work Programme** 

***************************************	Activity Description DESIGN & PROCUREMENT	% Comp	Orig Our	Early Start	Early Finish	A SEP OCT NOV DEC	2003 JAM 3 30 6 13 20 27
PROJECTIVILE Site Personasion				i zosialasta			
CH0000190	Possession P1-SA11	0	1 117	21/12/02		€P.	assession P1-SA11
CH0000200	Passession P1-SA11A menil & Completion Dates	0		21/12/02	l Antantoeminikuunti kas		ossession P1-SA11A
CH0005109	Contractual Completion of Stage 1A	0	SHIHIN (		23/12/02*	Contractual Completion of Stage 1A	
	DAVISSICHS		all white	uiss ben	1000		
CH0050140	KCRC EDOC: ENGINEER APPROVAL	espirities o			20/10/02	•	
CH0050160	KCRC EDOC: KCRC APPROVAL FOR START OF	100			30/09/02A	KCRC EDDC: ENGINEER APPROVAL	
TALIS MEETING						CRC EDOC: CRC APPROVAL FOR START OF WORKS	
TMLG Menfing			HANA		an an an an a	- <b>0</b>	
CH0052140 CH0052150	TMLG Meeting No.5 TMLG Meeting No.6	100	0		25/09/02A 25/10/02*	●TMLG Meeting No 5	
CH0052160	TMLG Meeting No.7	0			25/10/02*	THLG Meeting No.5	
CH0052170	TMLG Meeting No.8	0	-		29/11/02*	THLG Meeting No.7 TMLG Meeting No.7 TMLG Meeting No.7	a .
CH0052180	TMLG Meeting No.9	0	0		27/12/02*	A more broad and	TMLG Meeting No.8
CUSIGN & SUL		<u> Alana</u>	No.	<b>ABANG DEN</b>			
CH0053190	Nissons: Traffic Related Interface Management Plan	97	100	29/06/02A	23/10/02	Conservation and an and a second states	
CH0060300	TTA outline Proposals	97		30/04/02A	23/10/02	anno anno anno anno anno anno anno anno	
CH0060310	Traffic Mgt Contingency Plan	70	10	19/04/02A	23/10/02	In TA Currie Proposals	
	royter Carrons Related	HIGH	HILL			0	
CH0053280	Revised Quality Forms	0			20/10/02*	Revised Quality Forms	
CH0053310	General Independent Testing Labs	0	. 0		20/10/02*	General Independent Testing Labs	
CH0060450 Submission Pre	Geotechnical Monitoring Plan	78	50	13/06/02A	31/10/02	Geolechnical Monitoring Plan	
CH0053270	Details of severage treatment facilities	0			20/10/02*	Optails of seweage treatment facilities	
CH0050370	Method of pipeline and associated works	0	. 0		19/10/02*	O     O     Details of severage treatment facilities     O     O     O     O	
CH0060380	Method of drains, outfails or sewers	0	0		19/10/02*	<ul> <li>Midelbod of drains, outlatis or servers</li> </ul>	
CH0050390	Mathod of retaining wall	0	0		19/10/02*	Wethod of retaining wall	
Design Segme		院制	اغريمانه			6	
CH0053185 CH0050160	Safety Measures: Deck Segment Erection	0			20/10/02*	Safety Measures: Deck Segment Erection	· · · · ·
CH0050150	Aspect of precast concrete segment erection Erection equipment	0			20/10/02*	<ul> <li>Aspect of precast concrete segment erection</li> </ul>	
CH0050180	Temporary platform	0			31/10/02*	Enaction equipment	-
CH0050240	Launching girder design	40		04/04/02A	18/01/03	Temporary platform	and the second second second
CH0060260	Fabrication girder	20		02/09/02A	04/03/03		-Carlon and the state of Laurchin
Disign Segree	nt Yend & Steeneys	<b>UHRID</b>		<b>HEARENE</b>			
CH0060130	Method of storage of segment	.0	0		20/10/02*	O eMethod of storage of segment	
CH0060140	Curing system for segment	0	0		20/10/02*	Curing system for segment	
CH0060150	Geometry control	0	0		20/10/02*	Geometry control	
CH0060190	Strore Mix & Apply Epoxy Bonding Noex Region & Extoratory	0.0	O Altinuin	1 Decisionialianum	20/10/02*	Strore Mix & Apply Epoxy Bonding	
CHTFWR100	Submit 900A transformer house	0	0	21/10/02*	Chine Second 111111	Submit GODA transformer house	
CHTPWR139	Submit signboard detail	0	.0	21/10/02*		Submit signboard detail	
	arvPro-stessing	an a	幽阳	Hisen .			1.
CH0060120	Method of prestressing	0	• • • <b>0</b>	Theorem is the second second	11/11/02*	Method of prestressing	
CH0060200	Formwork & Statlers Segment mould design	0	0		20/10/02*		
CH0060460	Temporary works for Pile cap excavation	0	10	20/06/02A	23/10/02	Segment mould design	
CH0060470	Flasework for columns	0	0		19/10/02*		
CH10060480	Crosshead & portal flasework	0	0		19/10/02*	4 Crosshead & portal flasework	
And a second second second	Madny Access in the second second second	1990	anne e	Factousing	in and the		
CH0060100	Marine Access Proposal 5 High Mast Lighting	O CONTRACTOR	0 Initiati		05/11/02*	Marine Access Proposal	
CH0060320	Design High Mast Lighting	87	100	05/06/02A	02/11/02		
PROCUREMENT	and the second	HURH		IN STREET	ARIALIONARIA	Institution Plant Lighting	
	nts Manufacture						
CH0060210	Fabricate Segment moulds & setup production	0		04/11/02	16/11/02	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	CONTRACTOR OF CONTRACTOR
CH0060220 CH0060230	Trial segment Stacking & Cure segment	0		17/11/02	12/12/02	UUUIIBIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	THE REAL POST OF THE PARTY OF T
CH0080230	Fatxicate Segment 1-70 (MI,14)	0		13/12/02	11/01/03	Stacking & Cure segment	EXPERIMENTAL PROPERTY OF THE P
CH0120510	Fabricate Segment 71-140 (H1/ML14/12/11)	0		12/01/03	10/02/03	Fabricate Segment 1-70 (Mt.14)	
CONSTRUCT BU	LDINGS	<b>GROUP</b>	(Chiefe H	A SAGERINAN	SAUCEMENT	Fabricate Segment 71-140 (H1	
PANEL: KEY DA				IKON.			
CHTPWR031	PWRL: Contractual Completion	Û	0		19/10/02*	PWF8.: Contractual Completion	
CHTPWR040	PWRL: Forecast Completion	0 National Units	0	14(p)(n), property	07/11/02*	♥ ●FWRL: Forecast Completion	
CHTPWR170	s & Temporary Works PWRL: Water Supply Connection	93	40	06/06/02A	28/10/02	and the state of t	
CHTPWR180	PWRL: Sewer & Surface Water Connection	81		15/07/02A	05/11/02	And A Contraction And A Contraction And A Contraction	
CHTPWR380	PWRL: Construct vehicle washing bay	0		25/10/02	30/10/02	etimos etimos Billing PWRL: Construct, vehicle washing bay	
				· · · · · · · · · · · · · · · · · · ·		www.vvr	
lart Date West Date	04/04/02 31/12/07		0 Bai	2104	- Valant	A HARBOUR Dets Prevision	Guine L Armer
beta Date tun Date	21/10/02	Early Bar Progress I	lar.	.3	ENGINEERI	G COMPANY (GROUP)	Checked Approved
	A REAL PROPERTY OF A REAL PROPER	Official Ac			CONTRA	UTE 9-NSCV CT NO. HY/2000/21	
and the second s	Protection in a l					tolling Programme	
e Primaver	a Systems, inc.						

Activity ID 2WRL Drawo	Activity Description	% Comp	Orig Dur	Early Start	Early Finish	Al SEP OCT 2002 DEC 2003 2 0 16 23 30 7 114 21 28 4 11 18 25 2 9 16 23 30 6 13 20 2
CHTPWR200	PWRL: Construct transformer house	94	3	15/07/02A	29/10/02	And a second second to the second sec
CHTPWR240	PWRL: Excavation & Drainage Installation	60	1.4	04/09/02A	24/10/02	Insurance and a second se
CHTPWR260	PWRL: Construct structure frame & panel	79	30	15/09/02A	24/10/02	Manufacture and Annual Annua
CHITPWR390	PWRL: External Ground Stab & Surface Drainage	0	. 1	24/10/02	29/10/02	ImmiliPWRL: External Ground Stab & Surface Drainage
PWRL 111 & 211		HAGH	HAHH		副指导出的相比	
CHTPWR270	PWRL: Wall finishes	63		20/09/02A	24/10/02	Harrison - House - Hou
CHTPWR280 CHTPWR290	PWRL: Floor Finishes	0 50		25/10/02 22/09/02A	04/11/02	Management PWRL: Floor Finishes
CHTPWR230 CHTPWR320	PWRL: E8M 1st Fixing PWRL: Ceiling Finishes	75		22/09/02A	02/11/02	stimulation of the second seco
CHTPWR400	PWRL: Installation Chemical Waste Storage Room	0		05/11/02	06/11/02	in minimum teach
EWNEL DIS MY		Sasaatta	Alexandrica	THE REAL PROPERTY INCOME	Contraction of the second	IIIPWRL: Installation Chemical Waste Storage Room
CHTPWR210	PWRL: Install LV S/B & Transformer	0	1	30/10/02	07/11/02	unitality WRL: Install LV S/8 & Transformer
CHTPWR220	PWRL: CLP Cabling	0	1.1	02/11/02	07/11/02	INTERPORT CLP Cabling
CHTPWR230	PWRL: Power-on	0	1	)	07/11/02	PWRE Power-on
CHTPWR300	PWRL: Plumbing & Drainage	75	- 1	15/09/02A	02/11/02	AND CONTRACTOR OF THE PARTY OF
CHTPWR310	PWRL: Lighting & E&M final foung	50	- 14	22/09/02A	30/10/02	House Annual Hard - Country WRL: Lighting & E&M final fixing
CHTPWR330	Testing & Commissioning	0	1	08/11/02	13/11/02	millin Testing & Commissioning
Profe, Finshing	Works designed and the second s		118,61			
CHTPWR340	PWRL: Furniture installation	0		04/11/02	06/11/02	WPWRL: Furniture installation
CHTPWR350	PWRL: Installation New testing facilities	0		04/11/02	06/11/02	WPWRL: Installation New testing facilities
CHTPWR360	PWRL: Install Existing Equipment From Old Lab.	0		04/11/02	06/11/02	mePWRL: Install Existing Equipment From Old Lab.
CHTPWR370	PWRL: Signboards installation DGE G1 - STAGE 1A WORKS	enterenten	anine	07/11/02	07/11/02	PMRL: Signboards installation
ERIDGE GILPIE GILPIA (62 SI P	R 62 x STAGE 1A					
CH3010110	G2: Prepare & Submit Si Report	65		20/09/02A	22/10/02	Hanset - Hanse
CH3010120	G2: Approval SI Report	0	1	23/10/02	25/10/02	Call G2: Approval SI Report
G1 Per G2 Don CH3015100	ed Piling G2: fat: Borad Pile		NULLI I	30/10/02	04/11/02	and the second se
CH3015110	G2: 1st Interface core test	0		13/11/02	13/11/02	Build G2: 1st; Bored Pile
CH3015120	G2: 2nd: Bared Pile	0		06/11/02	11/11/02	BG2: 1st Interface core test
CH3015130	G2 2nd Interface core test	0	-	20/11/02	20/11/02	Binned C2: 2nd: Bored Pile
CH3015140	G2 3rd Bored Pile	0	-	13/11/02	18/11/02	MG2: 2nd Interface core test
CH3015150	G2 3rd interface core test	0		27/11/02	27/11/02	Band Blee
CH3015160	G2: 4th Bored Pile	0		20/11/02	25/11/02	IG2: 3rd interface core test
CH3015170	G2: 4th Interface core test	0		04/12/02	04/12/02	umm G2: 4th Bored Pile
CH3015180	G2: Sonic test	0		04/12/02	04/12/02	BG2: 4th Interface core test
G1. Pier G2 Pilo	Call of the Advancement of the Advancement	HUND	i de la composición de la composicinde la composición de la composición de la composición de la compos	Chine Section	CONTRACTOR OF	IG2: Sonic test
CH3020100	G2 PILE CAP: Sheet Pile driving	0	2	26/11/02	27/11/02	G2 PILE CAP: Sheet Pile driving
CH3020110	G2 PILE CAP: Excavale & shoring support	0	- 2	28/11/02	30/11/02	G2 PILE CAP: Excavate & shoring support
CH3020120	G2 PILE CAP: Cut Plie head	0	- 4	05/12/02	09/12/02	INTERCEPTING 2 PILE CAP: Cut Pile head
CH3020130	G2 PILE CAP: Lay blinding layer	0	1	09/12/02	09/12/02	IG2 PILE CAP: Lay blinding layer
CH3020140	G2 PILE CAP: Formwork erection	0	1	10/12/02	10/12/02	IG2 PILE CAP. Formwork erection
CH3020150	G2 PILE CAP: Reinforcement fixing	0	3	10/12/02	12/12/02	IIIIG2 PILE CAP; Reinforcement foing
CH3020160	G2 PILE CAP: Final fix Formwork/Clean & Concrete	0		13/12/02	13/12/02	G2 PILE CAP: Final for Formwork/Clean & Concrete
CH3020170	G2 PILE CAP: Remove formwork & Waterproof	0		14/12/02	16/12/02	G2PILE CAP: Remove formwork & Waterproof
	G2 PILE CAP: Backfil	0		17/12/02	18/12/02	IIIG2 PILE CAP: Backfil
f	G2 PILE CAP: Remove the sheet Piles	0	. 2 manatiki	19/12/02	20/12/02	G2 PILE CAP: Remove the sheet Piles
annie annie annie annie	mn ( Type C3 hollow) G2. 1st Column Lift			21/12/02	27/12/02	item ·
CH3025100	G2: Int Column Lift G2: 2nd Column Lift	D D	· · · · · ·	28/12/02	2//12/02	IIIII-4G2 1st Column Lift
CH3025120	G2: 3rd Column Lift	0		03/01/03	07/01/03	utus to the second seco
CH3025122	G2: 4th Column Lift	0		08/01/03	11/01/03	G2: 3rd Column Liftillin
CH3025124	G2: 5th Column Lift	0	4	13/01/03	16/01/03	G2: 4th Column Lifetim
Andrew Contraction of the second second	sabead (Typo H5/			BARRERAR		G2: 5th Column Life
	G2: Erect working platform & support brackets	0	2	17/01/03	18/01/03	G2: Erect working platform & support brackets
Gt: Plor G3 SI P	R G3 - STAGE 1A ve.Cr.to.) G3: Prepare & Submit Streport	94		C2/09/02A	22/10/02	
	G3: Approval SI Report	94		23/10/02	22/10/02	Winner and Annual Annual BG3: Prepare & Submit SI report
G1: Pler G3 Bors	poloidatiumisionaloite	initiani		123 NOVE		IIIG3: Approval SI Report
CH3050100	G3: 1st Bored Pile	0	annii)) 5	26/10/02	31/10/02	G3: 1st Bored Pile
CH3050110	G3: 1st Interface core test	0		09/11/02	09/11/02	B B BG3: 1st Interface core test
CH3050120	G3: 2nd Bored Pile	0	5	02/11/02	07/11/02	ummo GG: 2rd Bored Pie
CH3050130	G3: 2nd Interface core test	0	1	16/11/02	16/11/02	BG3 2nd interface core test
and the second se	and the second	0	6	09/11/02	14/11/02	IIIIIIIIG3 and Bond Pile
CH3050140	G3: 3rd Bored Pile				23/11/02	BG3: 3rd Interface core test
( ) high large states, som men	G3: 3rd Bored Pile G3: 3rd Interface core test	ø	1	23/11/02		
CH3050150	Carlo and and a state of the second			23/11/02 16/11/02	21/11/02	manna Manna G3: 4th Bored Pilo
CH3050150 CH3050160	G3: 3rd Interface core test	ø	5			Balling 3: 4th Bored Pile
CH3050150 CH3050160 CH3050170	G3: 3rd Interface core test G3: 4th Bored File	0	5	16/11/02	21/11/02	units a Signa Ath Bored Pile
CH3050150 CH3050160 CH3050170 CH3050180 G1, Post (\$3 Piet	G3: 3rd Interface core test G3: 4th Bored File G3: 4th Interface core test G3: Sonic test Cap	0 0 0	5	16/11/02 30/11/02 30/11/02	21/11/02 30/11/02 30/11/02	INVESTIGATION OF THE CONTROL OF THE
CH3050150 CH3050160 CH3050170 CH3050180 G1 Pks G3 Pbs CH3055100	G3. 3rd Interface core test G3. 4th Bored File G3. 4th Interface core test G3. Sonic test Cap G3. PILE CAP. Sheet Pile driving	000000000000000000000000000000000000000	5 1 1 2	16/11/02 30/11/02 30/11/02 22/11/02	21/11/02 30/11/02 30/11/02 23/11/02	INVESTIGATION OF THE CONTRACT
CH3050150 CH3050160 CH3050180 CH3050180 G11 Pks (33 Plas CH3055100 CH3055110	G3: 3rd Interface core test G3: 4th Bored File G3: 4th Interface core test G3: Sonic test Sap G3 PILE CAP: Sheet Pile driving G3 PILE CAP: Excevate & shoring support	000000000000000000000000000000000000000	5 1 1 2 3	16/11/02 30/11/02 30/11/02 22/11/02 25/11/02	21/11/02 30/11/02 30/11/02 23/11/02 23/11/02 27/11/02	International State Stat
CH3050150 CH3050160 CH3050170 CH3050180 G1 Pks G3 Pits CH3055100 CH3055110 CH3055120	G3. 3rd Interface core test G3. 4th Bored File G3. 4th Interface core test G3. Sonic test Sag G3 PILE CAP. Sheet Pile driving G3 PILE CAP. Excervate & shoring support G3 PILE CAP. Cut Pile head	0 0 0 0 0 0	5 1 1 2 3 4	16/11/02 30/11/02 30/11/02 22/11/02 25/11/02 02/12/02	21/11/02 30/11/02 30/11/02 23/11/02 27/11/02 05/12/02	IIIIIIIG3: 4th Bored Pile     IIG3: 8th Bored Pile     IIG3: 8th Interface core test     IIG3: 8th Edit Pile driving     IIIG3 PILE CAP: Sheat Pile driving     IIIG3 PILE CAP: Excavate & shoring support     IIIIIIG3 PILE CAP: Cut Pile head
CH3050150 CH3050160 CH3050170 CH3050180 CH3050180 CH3055100 CH3055110 CH3055120 CH3055130	G3: 3rd Interface core test G3: 4th Bored File G3: 4th Interface core test G3: Sonic test Sap G3 PILE CAP: Sheet Pile driving G3 PILE CAP: Excevate & shoring support	000000000000000000000000000000000000000	5 1 1 2 3 4 1	16/11/02 30/11/02 30/11/02 22/11/02 25/11/02	21/11/02 30/11/02 30/11/02 23/11/02 23/11/02 27/11/02	IIIIIIIIG3: 4th Bored Pile     IIG3: 4th Interface core test     IIG3: Soric test     IIG3: Soric test     IIG3 PILE CAP: Sheat Pile driving     Emmission PILE CAP: Excavable & shoring support

Activity D	Activity Description	% Comp	Ori; Dur		Early Finish	A SEP 000 2003 2 9 16 23 30 7 114 21 28 4 11 19 25 2 9 16 23 29 6 13 20 2
CH3055150	G3 PILE CAP: Reinforcement fixing	6	) .	3 06/12/02	09/12/02	G3 PILE CAP: Renforcement flaing
CH3855160	G3 PILE CAP: Final fix Formwork/Clean & Concrete	0	)	1 10/12/02	10/12/02	G3 PILE CAP: Final fix Formwork/Clean & Concreted
CH3055170	G3 PILE CAP: Strile Formwork & Waterproof	0		2 11/12/02	12/12/02	G3PILE CAP: Strile Formwork & Waterproof
CH3055180	G3 PILE CAP: Backfill	0		2 13/12/02	14/12/02	G3 PILE CAP: Backfill
CH3055190	G3 PILE CAP: Remove the sheet Piles	0		2 16/12/02	17/12/02	G3 PILE CAP; Remove the sheet Piles
and a second second second second	tam (Type C3S sold)		<b>NHI</b>		h, shine	
CH3060100	G3: 1st Column Lift	0		4 18/12/02	21/12/02	G3: 1st Ceturn Ult
CH3060110	G3: 2nd Column Lift	0	-	4 23/12/02	28/12/02	International Continue Control Continue Control Contro
CH3060120	G3: 3rd Column Lift	0	1	4 30/12/02	63/01/03	WHIII O3: 3rd Column Lift
CH3060125	G3 4th Column Lift	0	1	4 04/01/03	08/01/03	G3: 4th Column Lift and
	assi ead (fype Ho)		link			
CH3065100	G3: Erect working platform & support brackets	0	1	4 09/01/03	13/01/03	G3: Erect working platform & support brackets
CH3065110	G3 Erect soffit formwork	0	1	5 14/01/03	18/01/03	G3: Erect soffit formwork
PRICE G2 PIE	IDGE 02 - STAGE 1A WORKS IR C128 Birol Florg					
CH3450110	G12S: 1st Interface core test	100	THE	28/09/02A	28/09/02A	10 III
CH3480130	G12S: 2nd: Interface core test	100		30/09/02A	30/09/02A	C123: 1st: Interface core test
Personal and an invition of the	Pike Cap	(CLUBIAN)		130000024	30-09-02A	IG12S: 2nd: Interface core test
CH2485100	G12S PILE CAP: Sheet Pile driving	0	STEELINE C	11/10/02A	25/10/02	<b>u</b>
CHI2485110	G12S PILE CAP: Excavate & shoring support	0		26/10/02		Garage Ga
CH2485120	G12S PILE CAP: Cut Pile head	0			29/10/02	mildG12S PILE CAP: Excavate & shoring support
CH2485130	G12S FILE CAP: Lay blinding layer	0		30/10/02	04/11/02	GILLE CAP: Cut Pile head
CH2485140				04/11/02	04/11/02	#G125 PILE CAP: Lay blinding layer.
January	G12S PILE CAP: Formwork erection	0	<u> </u>	05/11/02	05/11/02	IG12S PILE CAP. Formwork erection
CH2485150	G125 PILE CAP: Reinforcement fluing	0		05/11/02	07/11/02	G12S PILE CAP: Reinforcement fixing
CH2485160	G125 PILE CAP: Final fix Formwork/Clean/Concrete	0	- 17	08/11/02	20/11/02	IG12S PILE CAP: Final fix Formwork/Cleare/Concerte
CH2485170	G12S PILE CAP: Strike Formwork & Waterproof	0	2	09/11/02	11/11/02	G12S PILE CAP: Strike Formwork & Waterprech
CH2485180	G12S PILE CAP: Backfill	0	2	12/11/02	13/11/02	G125 PILE CAP: Backfill
CH2485190	G12S PILE CAP: Remove the sheet Piles	0	2	14/11/02	15/11/02	III G12S PILE CAP: Remove the shoot Pilos
	Johunes (Type C5)			Hill Barris		
CH3490100	G12S: 1st Column Lift	0	6	19/11/02*	25/11/02	unnaliG128: 1st Column Lift
4 ··· + · · · · · · · · · · · · · · · ·	G12S: 2nd Column Lift	0	6	26/11/02	02/12/02	annuar annuar (125: 2nd Column L/)
CH3490120	G12S: 3rd Column Lift	0	6	03/12/02	09/12/02	tanual G12S: 3rd Column Uit
	RGISS PURCHARMAN			AHUHHHEIT		
G2 Pict G135 B CH3545110		COLUMN I	anini.		U.B. ALCON	
	G135: 1st: Interface core test	100		02/10/02A	02/10/02A	IG135, 1st interface core test
Second and the second second second	G13S. 2nd: Interface core test	100	- 1	04/10/02A	04/10/02A	G13S: 2nd: Interface core test
(52) Per G135 P CH3550100	G13S PILE CAP: Sheet Pile driving	100 maintains	annin .	Las uning	OLEHICED GOWE	ė i
CH3550110	and the state of the sector of	0		21/10/02	22/10/02	IDG13S PILE CAP: Sheet Pile driving
	G13S PILE CAP: Excavate & shoring support	0		23/10/02	25/10/02	IIIG13S PILE CAP: Excavate & shoring support
	G13S PILE CAP: Cut Pile head	D		26/10/02	31/10/02	IIIIIIG13S PILE CAP: Cut Pile head
and the second sec	G13S PILE CAP: Lay blinding layer	0	1	31/10/02	31/10/02	IG13S PILE CAP: Lay blinding layer
	G13S PILE CAP: Formwork erection	0	1	01/11/02	01/11/02	IIG 135 PILE CAP. Formwork erection
	G13S PILE CAP. Reinforcement fixing	0	್ರ	01/11/02	04/11/02	IIIIIG13S PILE CAP: Reinforcement fixing
	G13S PILE CAP. Final fix Formwork/Clean/Concrete	0	1	05/11/02	05/11/02	a BG13S PILE CAP: Final fix Formwork/Clean/Concrete
CH3550170	G13S PILE CAP: Strike Formwork & Waterproof	0	- 2	06/11/02	07/11/02	IIIG13S PILE CAP: Strike Formwork & Waterproof
CH3550180	G13S PILE CAP: Backfill	0	2	08/11/02	09/11/02	IIIG13S PILE CAP Bacifil
CH3550190	G13S PILE CAP: Remove Sheet Piles	0	2	11/11/02	12/11/02	IIIG135 PILE CAP: Remove Sheet Piles
	olum: (Type C5)	fin tig	細胞	a.Southing	With the	Process of the second stress of the
	G138: 1st Column Lift	0	6	10/12/02	16/12/02	Internet G135: 1st Column Lift
CH3555110	G13S: 2nd Column Lift	۵	6	17/12/02	23/12/02	G13S: 2nd Column Lift
and a second	G13S: 3rd Column Lift	0	6	24/12/02	02/01/03	Internet Column Lin
*****	IDGE H2 - STAGE 1A WORKS		13411	A DESCRIPTION		- many station and Country Lin
HE Plan HON SI	R HON - STAGE TA			A STATE OF THE PARTY OF THE PAR	THE PERSON NUMBER OF	
	H9N. Site investigation Pre-drilling	66	10	23/09/02A	31/10/02	
	H9N: Prepare & Submit SI Report	0		01/11/02	05/11/02	Even Antisense temperature SN: Site investigation Pre-chilling
	H9N: Approval SI report	0		06/11/02	12/11/02	MINN: Prepare & Submit SI Report
ATA STOCK ST	red Plang	CHINA	i i i i i i i i i i i i i i i i i i i	a substantion	NERHORINAL CONTRACT	INITIAL HINT: Approval SI report
	HSN: 1st Bored Pile	0	5	16/12/02	20/12/02	
CH4340110	H9N: 1st Interface core test	0			02/01/03	HIN: 1st Bored Pile
a las facilitas de las delses de las de l	H9N: 2nd: Bored Pile	0			28/12/02	H9N: 1st interface core test
a.s., every militably measured	H9N: 2nd: Interface core test	0		where here and reason	08/01/03	#######W: 2nd; Bornd Pile
And the second s	H9N; 3rd; Bored Pile	10			04/01/03	HBN: 2nd: Interface core tests
	H9N: 3rd: Interface core test					WHILE HIM 3rd: Bared Pile
	H9N: Sonic test	0			14/01/03	HSN: 3vd: Interface core test
tirationizationen attenti	and the second se	0	1	14/01/03	14/01/03	H9N: Sonic lest
in the second	PCap H9N PILE CAP. Sheet Pile driving	literative ol	HIRES	06:04:52	07001000	
					07/01/03	H6N PILE CAP: Sheet Pile driving
	HEN PILE CAP. Excavate & shoring support	0		a hay a spectra as a second	10/01/03	HIN PILE CAP: Excevate & shoring support
and the second	H9N PILE CAP: Cut Pile head	0		15/01/03	18/01/03	HON PILE CAP: Out Pile head
increase in the second s	H9N PILE CAP: Lay binding layer	0	1	18/01/03	18/01/03	H6N PILE CAP: Lay, binding layers
CNSTRUCT BRID SELDCIE MILTS PH	GE ML15 - STAGE 1A WORKS	100000				
	ER SEM2 Si Pre-Oniting	<b>IGNING</b>	HIND		Harrison and the second	
111151 POLICE STORE	orune of MURCH, Intelligence of the second	an a	an a	A DESCRIPTION OF THE OWNER OF THE		And and the second s
	S842: Pre-drilling S842-1/2/3/4	100	2500	10/09/024		
CH6858100 S	SB42: Pre-drilling SB42-1/2/3/4 SB42: Prepare & Submit SI report	100 0		1999 - Contra - Contr	30/09/02A	BB42: Pre-drilling S042-1/2/3/4
CH6855100 S CH5555110 S	SB42: Pre-drilling SB42-1/2/3/4 SB42: Prepare & Submit SI report SB42: Approval SI Report	100 0	4	02/10/02A	24/10/02 31/10/02	SB42-Pre-drilling SB42-12/3/4

Activity ID M. 15: Pier 584.	Activity Description 2 Scord Filmo	% Comp	Orig Dur	Early Start	Early Finish	Al SEP OCT 2003 2 9 16 23 30 7 14 21 28 4 11 18 25 2 9 16 23 30 6 13 20
CH5891100	SB42: 1st Bared Plie	0	5	22/11/02	27/11/02	stown SB42: 1st Bored Pile
CH6891110	SB42: 1st interface core test	.0	1	06/12/02	06/12/02	B9842: 1st interface core test
CH6891120	SB42: 2nd Bored Pile	0	5	28/11/02	03/12/02	mining SB42: 2nd Bored Pile
CH6891130	SB42: 2nd Interface core test	0	1	12/12/02	12/12/02	9 ISB42: 2nd Interface core test
CH6891140	SB42: 3rd Bored Pile	0	5	04/12/02	09/12/02	Build SB42: 3rd Bored Pixe
CH6891150	SB42: 3rd Interface core test	0	1	18/12/02	16/12/02	BSB42. 3rd Interface core test
CH6891160	SB42; 4th Bored Pile	0	5	10/12/02	14/12/02	SB42: 4th Booed Pile
2010101170	SB42: 4th Interface core test	-0	1	24/12/02	24/12/02	9 IISB42: 4th Interface core 5
346891180	SB42: Sonic test	0	.1	24/12/02	24/12/02	ISB42: Sonic test
(LIA) Pier Sile)	the manufacture and the second s	entrigent	HBU	HERRICE .	S OSTIMUT.	
H6894100	SB42 PILE CAP: Sheet Pile driving	0		16/12/02	17/12/02	BSB42 PILE CAP: Sheet File driv
H6894110	SB42 PILE CAP: Excavate & shoring support	0		18/12/02	20/12/02	SB42 PILE CAP: Excavate & shoring supporting
16894120	S042 PILE CAP: Cut Pile head	0		27/12/02	30/12/02	SB42 PILE CAP: Cut Pile head
346894130	SB42 PILE CAP: Lay blinding layer	0		30/12/02	30/12/02	SB42 PLE CAP: Lay binding layer
H6804140	SB42 PILE CAP: Formwork erection	0		31/12/02	31/12/02	\$842 PILE CAP: Formwork exection
H6894150	SB42 PILE CAP: Rainforcement fixing	0	3	31/12/02	03/01/03	SB42 PILE CAP: Reinforcement fixing
16894160	SB42 PILE CAPFinal fix Formwork/Clean & Concrete		1	04/01/03	04/01/03	SB42 PILE CAPFinal fix Formwork/Clean & Concretel
H6894170	SB42 PILE CAP:Strike Formwork & Biluminous Paint	0	2	05/01/03	07/01/03	SB42 PILE CAP.Strike Formwork & Bituminous Paint
H6894180	SB42 PILE CAP; Backfill within Sheet Piles	.0	2	05/01/03	09/01/03	SB42 PILE CAP: Backfill within Sheet Piles
H6894 190	SB42 PILE CAP:Remove Sheet Piles Around Pile	0	. 2	10/01/03	11/01/03	SB42 PILE CAP:Remove Sheet Piles Around Pile Capiti
1116 Fee \$842	2 Column (Type C3S Solid)				SI TIN BANK	
H6897100	5842 1st Column Lift	0		13/01/03	16/01/03	8842: 1st Column Litter
H6897110	SB42: 2nd Column Lift	0	unas	17/01/03	21/01/03	SB42: 2nd Column Litter
	DGE ML16 - STAGE 1A WORKS					
RIDGE MR 16 P				91 <b>21</b> 21000000000		
and the second second second	2 St Pre-Duting NB42: Pre-drilling NB42-3 & 4	100	10	16/09/02A	28/09/02A	EXCLUSION CONTRACTOR CONTRACTOR
H7002110	NB42: Prepare & Submit Si report	20		30/09/02A		International NE42: Pro-drilling NE42-3 & 4 optimized
117002110	NB42 Prepare & Submit Si report NB42: Approval SI Report	20		23/10/02	22/10/02 25/10/02	- Honorado Bulle Bulle Bullet Bullet Si report
ILTO Flat N34	and the interest of the interest of the new part of the interest of the intere	enemuii	4. 1911	23/10/02	25/10/02	INNE42: Approval SI Report
H7005100	N842: 1st: Bored Pile	0	21111120	26/10/02	31/10/02	NUMPERIO
H7005110	NB42: 1st. Interface core test	0		09/11/02	09/11/02	WWWWNB42: 1st: Bored Pile
and the second	and the second system of the			aline and	20.1111.1	INB42: 1st: Interface core test
H7005120	N342: 2nd: Bored Pile	-0		02/11/02	07/11/02	GHIMINIB42: 2nd: Bored Pile
H7005130	NB42: 2nd: Interface core test	0		16/11/02	16/11/02	INB42: 2nd: Interface core test
417005140	NB42: 3rd: Bored Pile	0		09/11/02	14/11/02	INHINE HORE Ple
XH7005150	NB42: 3rd: Interface core test	0	1	23/11/02	23/11/02	INIB42: 3rd: Interface core test
CH7005160	NB42. 4th: Bared Pile	0		16/11/02	21/11/02	WWWW4342; 4th: Bored Pile
H7005170	NB42. 4th: Interface core test	) )	1	30/11/02	30/11/02	BINE42: 4th: Interface core test
H7005180	NB42: Sonic test	0	1	30/11/02	30/11/02	at INE42: Sonic lest
0.18/ Pier NB43	2 The Cas					
347008100	NB42 PILE CAP: Sheet Pile driving	0	2	22/11/02	23/11/02	IIINB42 PILE CAP: Sheet Pile driving
H7008110	NB42 PILE CAP: Excavate & shoring support	0	3	25/11/02	27/11/02	IIIINB42 PILE CAP: Excavate & shoring support
H7008120	NB42 PILE CAP: Cut Pile head	0	5	02/12/02	06/12/02	INB42 PILE CAP: Cut Pile bead
≥H7008130	NB42 PILE CAP: Lay blinding layer	0	- 1	06/12/02	06/12/02	INB42 PILE CAP: Lay blinding layer
<b>≻17008</b> 140	NB42 PILE CAP: Formwork erection	0	1	07/12/02	07/12/02	a INB42 PILE CAP: Formwork erection
H7008150	NB42 PILE CAP: Reinforcement fixing	0	3	07/12/02	10/12/02	
H7008160	NB42 PILE CAP: Final Fix Fwork/Clean & Concrete	0	-1	11/12/02	11/12/02	MB42 PILE CAP: Final Fix Fwork/Clean & Concrete!
17008170	NB42 PILE CAP: Strike Formwork & Waterproof	a		12/12/02	13/12/02	· · · · · · · · · · · · · · · · · · ·
H7008180	NB42 PILE CAP: Backfil	0		14/12/02	16/12/02	NB42 PILE CAP: Strike Formwork & Waterproof
17008199	NB42 PILE CAP: Remove Sheet Piles	0		17/12/02	18/12/02	IIIINB42 PILE CAP: BackRi
and a supervised on the supervised of the superv	2 Column (Type C3 calowy	NUMBER	singalay.	HINHHELING	CHRISTING ST	NB42 PILE CAP: Remove Sheet Piles
H7011100	NB42: 1st Column Lift	0		19/12/02	23/12/02	60000 · · ·
H7011110	NB42, 2nd Column Lift	0		24/12/02	30/12/02	MINB42: 1st Column Lift
H7011120	NB42: 3rd Column Lift	0		31/12/02	04/01/03	B-IIIII NB42: 2nd Column L
H7011122	NB42 4th Column Lift			ing the selection of proceedings	and a second	NB42: 3rd Column Littleta
	No Charles and the second	0	4	06/01/03	09/01/03	NB42: 4th Column Lift
17011124	NB42: 5th Column Lift	0 Nimmin	4	10/01/03	14/01/03	NB42: 5th Column Liftann
	GE GZ - STAGE 1 WORKS				Contraction of the local division of the loc	
2 Plot G12N E			NHE ST			
H3450100	G12N: 1st: Bored Pile	100	4	27/09/02A	04/10/02A	
-13450110	G12N: 1st: Interface core lest	0		23/10/02	23/10/02	G12N: 1st: Ebrud Pile
6450120	G12N: 2nd: Bared Pile	100		08/10/02A	12/10/02A	IIG12N 1st: Interface core test
13450120	G12N 2nd: Bond The G12N: 2nd: Interface care test	0		31/10/02	31/10/02A	G12N 2nd: Bored Pite
43450140						IIG12N: 2nd: interface core test
1000-0	G12N: 3rd: Bored Pile	0	- Aller and Aller	18/10/02A	24/10/02	G 12N: 3rd: Bored File
43450150	G12N: 3rd: Interface core test	0		11/11/02	11/11/02	IG12N. 3rd: Interface core test
43450180 Internetarional	G12N: Sonic test	0	1	11/11/02	11/11/02	IG12N: Sonic test
Per GI2N P			1091		Self Line 1	Test Control of Contro
13455100	G12N: Sheet Pie driving	0		13/11/02	14/11/02	IIIG12N: Sheet Plin driving
13455110	G12N Excavate & shoring support	0		15/11/02	16/11/02	IIIIG12N: Excavate & shoring support
13455120	G12N: Cut Pile head	0	5	19/11/02	23/11/02	WING 12N: Cut Pile head
13455130	G12N: Lay blinding layer	o	1	23/11/02	23/11/02	BG12N: Loy blinding layer
APTO DE POR	G12N: Formwork erection	0	1	25/11/02	25/11/02	EG12N: Formwork erection
			-	and the second se	and a second second	En let i primere diceator
H3455140	G12N: Reinforcement fixing.	0	3	25/11/02	27/11/02	IIIG12N Reinforcement fiving
H3455140 H3455150	G12N: Reinforcement fixing G12N: Final fix Formwork/Clean & Concrete	0		25/11/02 28/11/02	27/11/02 28/11/02	BG12N: Flainforcement fixing BG12N: Flainf fix Formersk/Clean & Comment
H3455140 H3455150 H3455160 H3455170			- 1			BG12N: Feinforcement fixing BG12N: Final fix Formwork/Clean & Concrete BG12N: Remove Formwork & Bituminous Paint

Activity ID	Activity Description	% Comp	Acres of the local division of the local div	Early Start	Early Finish	Al SEP OCT NOV DEC 2003 Al SEP OCT NOV DEC 2003 Al SEP OCT 14 21 28 4 11 18 25 2 9 16 23 30 6 13 29 2
CH3455190	G12N: Remove the sheet Piles	0		04/12/02	05/12/02	IIIG12N: Remove the sheet Piles
CH3460100	Column (Type C5) G12N: 1st Column Lift	Conception of the second		03/01/03	09/01/03	animi .
CH3460110	G12N: 2nd Column Lift	0		10/01/03	16/01/03	G12N: 1st Colume Littering
CH3460120	G12N: 3rd Column Lift	0	-	17/01/03	25/01/03	G12N: 2nd Column Litterion International G12N: 3nd Column Litterion
BRIDGE G2 PIE	R G13N	İNHHAR	NAME		CHICARAGE	Cize 30 Countre Engineer
G2 Pig G13N	The second s		間	THEFT REPORT		
CH3515100 CH3515110	G13N: 1st Bored Pile G13N: 1st: Interface core test	100		20/09/02A	28/09/02A 21/10/02	HIMMEG13N: 1st Ecred File
CH3515110	G13N: 2nd: Bored Pile	100		03/10/02A	09/10/02A	G13N: 1st Interface core test
CH3515130	G13N: 2nd: Interface core test	00	· · · · ·	28/10/02	28/10/02	G13N: 2 dd: Bored Pile
CH3515140	G13N: 3rd: Bored Pile	100	· · · · ·	12/10/02A	19/10/02A	IKG13N: 2nd: Interface core test
CH3515150	G13N: 3rd: Interface core test.	D		06/11/02	06/11/02	G13N: 3rd: Bored Pile IIG13N: 3rd: Interface core test
CH3515180	G13N: Sonic test	0	1	06/11/02	06/11/02	W313N: Sonic test
partition and a second second	11111111111111111111111111111111111111		illilli		an and the	
CH3520100	G13N: Sheet Pile driving	0		06/12/02	07/12/02	IIIG13N: Sheet Pile deving
CH3520110	G13N: Excavate & shoring support	0		09/12/02	11/12/02	G13N: Exceptate & shoring support
CH3520120	G13N: Cut Pile head	-0		12/12/02	17/12/02	ullilliG13N: Cut Pile head
CH3520130 CH3520140	G13N: Lay blinding layer G13N: Formwork erection	0		17/12/02	17/12/02	IIG13N: Lay bilinding layer
CH3520140 CH3520150	G13N: Reinforcement liking	0		18/12/02	18/12/02	EG13N: Fortmwork erection
CH3520160	G13N: Final fix Formwork/Clean & Concrete	0		21/12/02	20/12/02	IIIIG 13N: Reinforcement Bong
CH3520170	G13N: Remove Formwork & Bituminous Paint	0		23/12/02	24/12/02	G13N: Final fix Formwork/Clean & Concretel
CH3520180	G13N: Backlill	.0		27/12/02	28/12/02	G13N. Remove Formwork & Bituminous Paint@
CH3520190	G13N: Remove the sheet Piles	0	2	30/12/02	31/12/02	IIIIG13N: Backfil G13N: Remove the sheet Piles/II
ONSTRUCT BRI BRIDGE G11 PIE	DGE 01 - STAGE 2 WORKS R G40 (04)75)					Gran, realized by bines, Papola
PERSONAL PROPERTY AND INCOME.	o ners & Services Diversions		116			
CH3075100	G4N: Utilities detection & trial pit excavation	0	4	03/01/03	07/01/03	G4N: Utilities detection & trial pit excavation
CH3105110	G4N: Watermain diversion (75mma)	0	21	08/01/03	31/01/03	G4N: Watemain diversion (75mme)(initial)(initial)
	R G-S (G4/176)	(MISSA)	enere e			
CH3105100	G4S: Utilities Detection & Dig Trial Pit	100		19/08/02A	UCCERTRATION DE LA CONTRATION DE LA CONTRATICA DE LA CONT	
CH3105101	G4S: Re-route Public Lighting Cables	0		13/12/02	09/01/03	G45: Re-route Public Lighting Cables multimediate
G1: Par G4S SI	Pro-Dr. Ming	<b>HERE</b>	(MARK)		RENAMENT	CHO REFERENCE CURRING CODESIMALITY PUBLICATION
CH3110100	G4S: Site investigation	100	12	04/09/02A	26/09/02A	Final And
CH3110110	G4S: Prepare & Submit SI Report	0	.3	27/09/02A	23/10/02	Mile Samania State
CH3110120	G4S: Approval SI Report	0	4	24/10/02	28/10/02	IIIIIIIIG4S: Approval SI Report
C1 PH/ G4S BC	the second s		HUB	RECEIPTING	RIGHTER STREET	
CH3115100 CH3115110	G4S: 1st Bored Pile G4S: 1st: Interface core test	0		30/10/02	04/11/02	G4S: 1st Bored Pile
CH3115120	G4S: 2nd Bored Pile	0		05/11/02	21/11/02	IG4S: tet: Interface core test
CH3115130	G4S: 2nd Interface core lest	0		28/11/02	28/11/02	G4S; 2nd Bored File
CH3115140	G4S: 3rd Bored Pile	0	-	13/11/02	18/11/02	EO4S: 2nd Interface core test
CH3115150	G4S: 3rd Interface core test	0		05/12/02	05/12/02	G4S: 3rd Bored Pile
CH3116160	G4S: 4th Bored Pile	0	5	20/11/02	25/11/02	IIG45: 3rd Interface core test
CH3115170	G4S: 4th Interface core test	0	1	12/12/02	12/12/02	BG4S: 4th Interface core test
CH3115180	G4S: Sonic test	0	.1	12/12/02	12/12/02	BG4S. Sonic test
BRIDGE G1. FIE			ANN	in section		
Contraction of the second s	ties & Services Diversions		anan i	2440.022	Contraction of	
CH3140100	G5: Utilities detection & trial pit excavation R G6	Contraction	. 4 80000	21/12/02	27/12/02	G5: Utilities, detection & trial pit excervationdille-0
or other the second	ties & Seplices Oversions					
CH3175100	G5: Utilities detection & trial pit excavation	0	4	28/12/02	02/01/03	G6: Utilias detection & trial pit excervation
G1: Plan G3 SI P			dians.			EUL/Destroyment
CH3180100	G6. Site investigation	0	15	03/01/03	20/01/03	O6: Site investigation(iii)
DRIDGE 62 PIL	DGE GZ · STAGE Z WORKS R G7	Section 1			C. BURNESS	
	tes & Services Diversions	lit. F				
CH3265100	G7. Utilities detection & trial pit excavation	0	4	21/12/02	27/12/02	G7: Utilities detection & trial pit ascavationEIII-0
	Ye During	HIII ALSE		Dautouro		
CH3270100	G7: Site investigation	0	iy	100/17/17/1	03/01/03	IIIII/IIDG7; Site avvestigatio
GH3270110 CH3270120	G7: Prepare & submit the SI report G7: Approval SI report	0		04/01/03	08/01/03	G7: Prepare & submit the SI report
	GP: Approval Si report R GB (Type C5/H5 solid)	0 States and	9 1000	0.00103	15/01/03	G7: Approval Sil report
and the second se	us & Service Diversions	In all the state			staten	
CH3300100	G5: Utilities detection & trial pit excavation	0	4	28/12/02	02/01/03	G8: Utilities detection & trial pit excavation
G2: Plux G3 SI P	Contraction of the second s		御殿			
CH3305100	G8. Site investigation	0			09/01/03	G8: Site investigation
CH3305110 CH3305120	G8 Prepare & submit the SI report	0		10/01/03	13/01/03	G8: Prepare & submit the SI reportant
	GS: Approval Si report R SD (Type C8:H5 s.w0)	0 Huhoma	2	14/01/03	15/01/03	G8: Approval Si reportai
G2: Pear G316	tars & Services Diversions	nius.				
CH3335100	G9 Utilities detection & trial pit excavation	0	4	03/01/03	07/01/03	G9: Utilities detection & trial pit excavation
(32: Pier G0 5) P CH3340100	Ye Drilling G9: Site investigation	0		10/01/03	15/01/03	
CH3340100 CH3340110	G9: Site investigation G9: Prepare & submit the SI report	0		16/01/03	15/01/03	G9: Site investigation
	R G10 (Type Cavits sold)		No.			G9: Prepare & submit the SI report[]]
AND AND AND AND AND ADDRESS OF	lities & Services Diversions		Ci ry		151.500	
aurunnenning	G10: Utilities detection & trial pit excavation	0		08/01/03	11/01/03	G10: Littlibes detection & trial pit excavation

Activity ID	Activity Description	Comp	Orig		Earty	A SEP OCT NOY DEC JAN
2 Per G10 5	il Pro-Dúlicoj		ļm			2 9 16 23 30 7 14 21 28 4 11 18 25 2 9 16 23 30 8 13 20 27
CH3375100	G10: Site investigation RIDGE ML16 - STAGE 2: WORKS	0		5 16/01/03	21/01/03	G10: Site investigation[[[[[[
ENVICE NO. 16	FYER NB43		1			
CH7020100	\$3 UB-0cs & Services Diversions NB43: UBHes detection & trial pit excervation		REI MEI I	4 21/12/02	27/12/02	
CH7020110	NB43 Watermain civersion (75)	0		2 28/12/02	11/01/03	NB43: Utilities detection & trial pit excavation
ML IN FIRT NH	43 St Pre-Dinling			101 1 2 1 1	Billinina Solar	NB43: Watermain diversion (75)IIII/dimension
CH7023100	NB43: Site investigation	ö		0 26/12/02	09/01/03	NB43: Site investigation in Manual
CH7023110	NB43: Prepare & submit the SI report	0	-	3 10/01/03	13/01/03	NB43: Prepare & submit the Si report
CH7023120	NB43: Approval Si report	0 Intimuitin		4 14/01/03	17/01/03	NB43: Approval SI report
There are a set of the	14 Utitios & Servic & Diversions		00163679			
CH7041100	NB44: Utilities detection & trial pit excavation	0		1 21/12/02	27/12/02	NB44: Utilities detection & Intal pit excavation
B.	14 Sal Fre-Diflog			in produce	STATION AND A STATE	
CH7044100 CH7044110	NB44: Site investigation NB44: Propare & submit the Si report	0	-	5 28/12/02 4 16/01/03	15/01/03	NB44: Site investigation (IIII) (IIII)
Renission and the second second	DOGE ML15+STAGE 2 WORKS	CONSTRAINT	HIGH		200503	NB44: Prepare & submit the Si reporting
BRIDGE MLTS			UHH I			
All 15 Par SEA	IS Utilities & Services Diversions SB43: Utilities detection & trial pit excavation			1000000	27/12/02	Television (
CH5906110	SB43: Watermain Diversion (75mme)	0		21/12/02	11/01/03	SB43: Utilities detection & trial pit excervation
hand and a second second	IS SI Pos-Drilling	<b>HIHRAN</b>	HUN		noinistanin	SB43: Waturnain Diversion (75mma)IIIIMfattutti
CH6909100	SB43: Site investigation	0	10	28/12/02	09/01/03	SB43: Site investoriant
CH6909110	SB43: Prepare & Submit SI report	0		10/01/03	14/01/03	SB43: Prepare & Submit Si reportimi
CH6909120	SB43: Approval SI report	C	e	15/01/03	21/01/03	SB43: Approval SI reporting
and the second se	PIERSB442			anality and		The second se
CH6924100	BE TTA Implementation SB44E: Prepare TTA Drgs (SB44E Cap)	0	21	21/10/02*	10/11/02	The state of the s
CH6924110	SB44E: Endorse TTA Drgs by the Eng.	0	- 1.27	11/11/02	17/11/02	International In
CH6924120	SB44E: Apply TD traffic advice/gazette notice	0		18/11/02	01/12/02	HIIIIIIS844E: Endorse TTA Orgs by the Eng.
CH6924130	\$844E: Meeting with RMO	0	5	02/12/02	04/12/02	UIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
CH6924140	S844E: Receive road works advice	0		05/12/02	06/12/02	IIISB44E: Receive road works advice
CH6924150	S844E: Preparation for commencement	0	ş	07/12/02	09/12/02	IIIII SB44E: Preparation for commonosement
CH6924160	S844E: Implementation of TTA	0	7	05/12/02	11/12/02	Millini SB44E Implementation of TTA
ML15 Per S34 CH6927100	KE Litites & Services Oversions SB44E: Utilities detection & Dig Trial Pit	0	HILLE	21/12/02	12142400	
Antesta and a second se	4E S(Fee-Orling		HUID	21/12/02	27/12/02	SB44E: Utilities dataction & Dig Trial Pittilitied
CH6930100	SB44E: Site Investigation	0	12	28/12/02	15/01/03	SB44E: Site investigation
CH6930110	SB44E: Prepare & submit the SI report	0	÷.4	16/01/03	20/01/03	SB44E: Prepare & submit the SI report
1 Martin Market Market Control of	PER SBAAW	原則的	<b>HIM</b>			
CH6945100	4W Utilities & Services Diversions SB44W: Utilities Detection & Dig Trial Pit	0	HAND	21/12/02	27/12/02	Normal Contraction
Providence in the second second	GW SkPre-Criting		10110		Ciricolae	SB44W: Utilities Detection & Dig Trial Prilities
CH6948100	SB44W: Site investigation	0	15	28/12/02	15/01/03	SB44W. Site investigation and Attinuation
CH6948110	SB44W: Prepare & submit the SI report	0	4	16/01/03	20/01/03	SB44W: Prepare & submit the Si report
CONSTRUCT BR	California a second a					The second se
BRIDGE MI 121	1 Unites & Services Diversions				P25 Uresult	
CH6408110	NE31: Watermain diversion (400D.I)	25	27	20/09/02A	08/11/02	Formula International antiquinal International Internation (400D.1)
	15 Pro-Drilling	ing the	440	當戶回的制	的建品的	
CH6411120	NB31: Approval Pre-drill SI report	0	6	20/09/02A	26/10/02	Hausens-Augustane and IIIIII NB31 Approval Pre-drill Streport
K4612: Plan MB3 CH6414100	1 Boned Pilling NB31: 1st Bored File	0	1000	18/11/02	21/11/02	
CH5414110	1st: Interface core test	0	_	09/12/02	09/12/02	WWINE31: 1st Bored Pile
CH5414180	Some lest	0		09/12/02	09/12/02	Itst: interface core test
MU12 Plei NB3	1 Pla Cap	<b>Hillin</b>		<b>HARRING</b>	STATISTICS.	#Sonic test
CH6417100	Sheet Pile driving	0		10/12/02	11/12/02	IN Street Pile driving
CH6417110	Excavale & shoring support	0		12/12/02	14/12/02	Excavate & shoring support
CH5417120	Cut Pile head	0		16/12/02	20/12/02	Cut Pile head
CH5417130 CH5417140	Lay blinding layer Formwork erection	0		20/12/02	20/12/02	Rusy trinding layer
CH6417140	Formwork erection Reinforcement fixing	0		21/12/02	21/12/02	IFormwork entition
CH6417160	Final fix Formwork/Clean & Concrete	0	and the second second	27/12/02	27/12/02	u Will Reinforcement fixing
CH6417170	Ramove formwork & bituminous print	0		28/12/02	30/12/02	Final fix Formwork/Clean & Concretell
CH6417180	Backfill	0		31/12/02	02/01/03	Remove formwork & biturninous print
CH8417190	Remove the sheet Piles	0	2	03/01/03	04/01/03	Remove the sheet Piest
Accession to be a second of the second of th	Column (Type CatitB Follow)				netSeldH.	PROVIDENCE AND REALING THE REALING
CH6420100	1st Column Lift	0		06/01/03	11/01/03	eminus Hittigan Stat Column Lift,
CH6420110	2nd Column Lift	0	6	13/01/03	16/01/03	2nd Column Lin and
BRIDGE A1L12: F	PER NB32 2 Unites & Services Oliversions		THINS.	IN A REAL PROPERTY OF THE R		
CH6429110	NB32. Drainage diversion (900)	10	25	25/09/02A	06/11/02	Net and Annual Management (900)
CH6429130	NB32: Gas main diversion (315PE)	10	25	25/09/02A	06/11/02	High High High High High High High High
CH6429140	NB32: Temporary slewd the cable	50	21	25/09/02A	06/11/02	Event House and House
The second s	SI FreeDralog			Alling of - D	en manta t	stime
CH6432100 CH6432110	NB32: Site Investigation NB32: Prepare & Submit SI Report	D			25/10/02	mmiN032: Site investigation
CH6432120	NB32: Approval SI Report	0		30/10/02	29/10/02 05/11/02	MB32: Prepare & Submit Si Report
	No. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19		_3		1.3.202	IIIIIIINB32 Approval St Report

Activity ID ML12 Per MB	Activity Description 32 Eared Pang	% Comp	Orig Dur	Early Start	Early Finish	SEP 0CT 2002 NOV DEC 2003 16 23 30 7 14 21 28 4 11 18 25 2 9 16 23 30 6 13 20
CH6435100	NB32: 1st Bored Pile	0	4 2	5/11/02	28/11/02	man WWN832: 1st Bored Pile
CH6435110	1st: Interface core test	0	1 1	6/12/02	16/12/02	Itst interface care test
CH6435180	Sonic test	.0	1 1	6/12/02	16/12/02	0 Bisanic test
ML17 Por NB			的副使用			
CH8438100	Sheet Pile driving	0		7/12/02	18/12/02	IRSheet File driving.
CH6438110 CH6438120	Excavate & shoring support	0		9/12/02	21/12/02	BillExcavale & shoring support
CH6438130	Cut Pile head	0		3/12/02	30/12/02	8-100 Cut Pile head
	Lay blinding layer	-0		0/12/02	30/12/02	Reay binding layer
CH6438140	Formwork erection	0		1/12/02	31/12/02	Formwork erector
CH6438150	Reinforcement foing	0		1/12/02	03/01/03	PIDReinforcement
CH6438160	Final fix Formwork/Clean & Concrete	0		4/01/03	04/01/03	Final fix Formwork/Clean & Concrute
CH6438170	Remove formwork & bituminous print	0	and special	5/01/03	07/01/03	Flamové formwork & bituminous printil
CH6438180	Backfil	.0		5/01/03	09/01/03	#Backtill
CH6438190	Remove the sheet Ples FIER NB33	0 Initiation	2 1	001/03	11/01/03	Remove the sheet Piles
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CH6453110	NB33: Prepare & Submit Si Report	0	4 03	2/09/02A	24/10/0Z	
CH6453120	NB33: Approval SI report	Ű	6 2	5/10/02	31/10/02	data Annual Annual Ministry (Ministry Content Annual A
1 12 Fier NB	13 Bored Piling	in static	anna an	NUT III. III	NUMPER SHE	WWWINB33: Approval St report
CH6458100	NB33: 1st Bored Pile	0	5 0	5/12/02	10/12/02	within NB33: 1st Bored Pile
CH6456110	1st interface core test	0	1 3	12/02	30/12/02	Bits: Interface core 1
2∺6456180	Sonic test	D	1 3	12/02	30/12/02	an st: interface care t BSonic test
ML12 FierNba						Moonic test
CH6459100	Sheet File driving	0	23	1/12/02	02/01/03	Num Reference Plie driving
CH8459110	Excavate & shoring support	0	3 03	V01/03	06/01/03	Excavale & shoring support
CH6459120	Cut Pile head	Q	5 07	//01/03	11/01/03	IIIIIICut File h
CH6459130	Lay blinding layer	0	11	1/01/03	11/01/03	Lay binding layer[]
CH6459140	Formwork erection	0	-118	9/01/03	13/01/03	Formwork exection
CH6459150	Reinforcement flixing	0	3 13	3/01/03	15/01/03	Reinforcement fixing
CH8459160	Final fix Formwork/Clean & Concrete	0	1 16	1/01/03	16/01/03	Final for Formwork/Clean & Concreteg
CH6459170	Remove formwork & bituminous print	0	2 17	7/01/03	18/01/03	Remove formwork & bituminous printill
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CH6477120	NB34: 2nd Bared Pile	0		/12/02	24/12/02	1st interface core test[
H6477130	2nd: Interface core test	0		/01/03	14/01/03	MINB34: 2nd Bored Pile
H6477140	NB34; 3rd Bored Pile	0		/12/02	31/12/02	2nd: Interface core les@
CH6477150	3rd: Interface core test	0		/01/03	18/01/03	fillin NB34: 3rd Bored P
CH6477180	Sonic test	0		/01/03	18/01/03	3rd. Interface core test()
RIDGE ML 12: F	PER NB35(W)	AUTHOR	minim	ANDIOLOGIA		Sonic test]
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246496120	NB35: Approve SI Report	0	6 05	ASDMB04	19/10/02	Annual Company Company (B35: Approve SI Report
a 12 Pier NB3		創制的修	884668	加股合		
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16498110	1st: Interface core test	0	1 23	/10/02	23/10/02	anst interface core test
216498140	NB35: 2nd Bored Pile	80	4 08	/10/02A	24/10/02	Million MB35: 2nd Bored Pile
346498150	2nd: Interface care test	8	1 11	/11/02	11/11/02	a. B2nd: interface core test.
346498180	Sonic test	0	1 11	/11/02	11/11/02	II RSonic test
AND DEPENDENT OF THE	PER NOA(M)					
1012179- NB30 246519180	MB36: Sonic test	100	1/25	/09/02A	25/09/02A	9
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	CONTRACTOR OF THE OWNER	madali		/10/02	22/10/02	
-0022100	NB36: PILE CAP - Sheet Pile driving	0	2125	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	and the second se	BNB36: PiLE CAP - Shoet Pile driving
HX		0		10/02	25/10/02	mining WINB36: PILE CAP - Excavate & shoring support
7-16522110	NB36: PILE CAP - Excevate & shoring support		3 23		25/10/02	INITIAL PILE CAP - Cut Plie head
>+6622110 >+6522120	NB36: PILE CAP - Excevate & shoring support NB36: PILE CAP - Cut Pile head	0	3 23 5 26	10/02	31/10/02	
>+0622110 >+06522120 >+06522130	NB36: PILE CAP - Excevate & shoring support NB36: PILE CAP - Cut Pile head NB36: PILE CAP - Lay blinding layer	0	3 23 5 26 1 31	/10/02	31/10/02 31/10/02	NB36: PILE CAP - Lay brinding layer
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H6622110 H6522120 H6522130 H6522140 H6522150 H6522160 H6522170 H6522180	NB36: PILE CAP - Excavate & shoring support NB36: PILE CAP - Cut Pile head NB36: PILE CAP - Lay blinding layer NB36: PILE CAP - Formwork erection NB36: PILE CAP - Formwork erection NB36: PILE CAP - Reinforcement fising NB36: PILE CAP - Remove formwork & Waterproof NB36: PILE CAP - Backfill	0 0 0 0 0 0 0	3 23 5 26 1 31 1 01 3 01 1 05 2 06 2 06	r10/02 r10/02 r11/02 r11/02 r11/02 r11/02 r11/02	31/10/02 31/10/02 01/11/02 04/11/02 05/11/02 07/11/02 08/11/02	INB36: PILE CAP - Lay binding layer     INB36: PILE CAP - Fortwork arection     INB36: PILE CAP - Reinforcement fixing     INB36: PILE CAP - Reinforcement fixing     INB36: PILE CAP - Reinforce formwork & Vaterpoort
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H6522110 H6522120 H6522130 H6522140 H6522150 H6522160 H6522170 H6522180 H5522190 K12/Par/N832 H6522190 K12/Par/N832 H6525110	NB36: PILE CAP - Excavate & shoring support NB36: PILE CAP - Cut Pile head NB36: PILE CAP - Lay binding layer NB36: PILE CAP - Fornwork erection NB36: PILE CAP - Fornwork erection NB36: PILE CAP - Remove formwork & Waterproof NB36: PILE CAP - Remove formwork & Waterproof NB36: PILE CAP - Backfill NB36: Remove the sheet Piles Column Ligger CB7328/holiget NB36: Far Column Lift NB36: 2nd Column Lift		3 23 5 26 1 31, 1 01, 3 01, 1 05 2 06, 2 06, 2 11, 6 13, 6 13,	10/02 11/02 11/02 11/02 11/02 11/02 11/02 11/02 11/02 11/02	31/10/02 31/10/02 01/11/02 04/11/02 05/11/02 07/11/02 09/11/02 12/11/02 19/11/02 26/11/02	INB36: PILE CAP - Lay binding layer     INB36: PILE CAP - Forthwork erection     INB36: PILE CAP - Reinforcement lixing     INB36: PILE CAP - Reinforcement lixing     INB36: PILE CAP - Reinforce forthwork & Waterproof     INB36: PILE CAP - Backfil     INB36: PILE CAP - Backfil     INB36: PILE CAP - Lixing
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>46522110           >46522120           >46522130           >46522140           >46522140           >46522140           >46522140           >46522140           >46522140           >46522140           >46522140           >46522140           >46522140           >46522140           >46522140           >46522140           >46522140           >46522140           >46525140           >46525120           >46525125           >112           >12           >12	NB36: PILE CAP - Excavate & shoring support NB36: PILE CAP - Cut Pile head NB36: PILE CAP - Lay binding layer NB36: PILE CAP - Fornwork erection NB36: PILE CAP - Fornwork erection NB36: PILE CAP - Remove formwork & Waterproof NB36: PILE CAP - Remove formwork & Waterproof NB36: PILE CAP - Remove formwork & Waterproof NB36: PILE CAP - Backfill NB36: Remove the sheet Piles Colorent Type: CBF3284 hollow) NB36: Set Colume Lift NB36: 2nd Colume Lift NB36: 3rd Colume Lift		3 23 5 26 1 31, 1 01, 3 01, 1 05, 2 06, 2 11, 6 13, 6 13, 6 20, 6 27, 6 04,	/10/02 /10/02 /11/02 /11/02 /11/02 /11/02 /11/02 /11/02 /11/02 /11/02 /11/02 /11/02 /12/02	31/10/02 31/10/02 01/11/02 04/11/02 05/11/02 05/11/02 09/11/02 12/11/02 12/11/02 19/11/02 26/11/02 03/12/02	INB36: PILE CAP - Lay binding layer     INB36: PILE CAP - Forthwork areaction     INB36: PILE CAP - Reinforcement facing     INB36: PILE CAP - Backfil     INB36: Stat Column Lift     INB36: 1at Column Lift     INB36: 3rd Column Lift
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246522110 246522120 246522120 246522130 246522140 246522140 246522150 246522160 246522170 246522180 246522190 246525100 246525120 246525120 246525125 10121 Crossings 246528100 246528100	NB36: PILE CAP - Excavate & shoring support NB36: PILE CAP - Cut Pile head NB36: PILE CAP - Lay binding layer NB36: PILE CAP - Fornwork erection NB36: PILE CAP - Fornwork erection NB36: PILE CAP - Remove formwork & Waterproof NB36: Second & PILE CAP - Remove formwork & Waterproof NB36: Second & PILE CAP - Remove formwork & Waterproof NB36: Second & PILE CAP - Remove formwork & Waterproof NB36: Second & PILE CAP - Remove formwork & Waterproof NB36: Second & PILE CAP - Remove formwork & Waterproof NB36: Second & PILE CAP - Remove formwork & Second & PILE CAP - Remove & PILE CAP - Remove & Second & PILE CAP - Remove		3 23 5 26 1 31, 1 01, 3 01, 1 05 2 06, 2 11, 6 13, 6 13, 6 20, 6 27, 6 04, 7 6 04, 7 6 14, 7 7 6 04, 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1002 1002 1102 1102 1102 1102 1102 1102	31/10/02 31/10/02 01/11/02 06/11/02 06/11/02 06/11/02 09/11/02 12/11/02 12/11/02 12/11/02 26/11/02 03/12/02 10/12/02 14/12/02 20/12/02	INB36: PILE CAP - Lay binding layer     INB36: PILE CAP - Fortwork erection     INB36: PILE CAP - Reinforcement fixing     INB36: PILE CAP - Backfil     INB36: PILE CAP - Column Lift     INB36: PILE CAP - Backfil     INB36: PILE CAP - PILE CAP - PILE CAP - Backfil     INB36: PILE CAP - PILE CAP - PILE CAP - PILE     INB36: PILE CAP - PILE CAP - PILE CAP - PILE CAP -
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Activity ID CONSTRUCT BR	Activity Description	% Comp	Orig Dur	Early Start	Early Finish	A SEP OCT 2002 DEC 2003 A 2 9 16 23 30 7 14 21 28 4 11 18 25 2 9 16 23 30 6 13 20
GRIDKE MLTT				<b>HIGH</b>		
CH8264120	31 SLPre-Drilling SB31: Approval SI report	0	83	0/09/02A	19/10/02	and the second se
Contraction of the second seco	31 Bornd Plung	N ANH	(Install	ARDINA	HURAN	Hindrath-Bandrath Hands Set31: Approval Sil report
CH6267140	SB31: 1st Bored Pile	0	4 3	81/10/02	04/11/02	SB31: 1st Bored Pile
CH6267150	SB31: 1st Interface core test	0		1/11/02	21/11/02	<ul> <li>IIS831: 1st interface core test</li> </ul>
CH6267150	SB31: Sonic test 31 Mie Cap	O CONTRACTOR OF	12	1/11/02	21/11/02	u ■5831: Scric test
CH6270100	SB31: Sheet Pile driving	0	22	2/11/02	23/11/02	
CH6270110	SB31: Excavate & shoring support	0		5/11/02	27/11/02	S831; Sheet Pile driving
CH6270120	S831: Cut Pile head	0		8/11/02	03/12/02	BB31: Excevate & shoring support
CH6270138	SB31: Lay blinding layer	0	10	3/12/02	03/12/02	status SB31: Cut Pile head
CH8270140	SB31: Formwork erection	0	10	4/12/02	04/12/02	\$831: Lay blinding layer
CH6270150	SB31: Reinforcement fixing	0	30	4/12/02	06/12/02	ISB31: Formwork erection
CH6270160	SB31: Final fix Formwork/Clean & Concrete	0	10	7/12/02	07/12/02	G BCD1: Reinforcement fixing
CH6270170	SB31: Remove formwork & bituminous print	0	2 0	9/12/02	10/12/02	BB31: Final fix Formwork/Clean & Conc.
CH6270180	SB31: Backfill	.0	2 1	1/12/02	12/12/02	III Baddfil
CH6270190	S831: Remove the sheet Piles	0	21	3/12/02	14/12/02	SB31; Ramove the sheet Piles
MU11 Play SB3						Wassi Homore we skot hits
CH6273100 CH6273110	SB31: 16t Column Lift	0		6/12/02	21/12/02	stand S831; 1st Column Litt
CH6273110	SB31: 2nd Column Lift	0	· · · · · · · · · · · · · · · · · · ·	3/12/02	31/12/02	SB31; 2nd Column L
CH6273120	SB31: 3rd Column Lift SB31: 4th Column Lift	0		2/01/03	08/01/03	SB31: 3rd Column Lift
REGEMENT	S831: 4th Column Lift PIER 5832	O.	6 0	9/01/03	15/01/03	SB31; 4th Column Unternation
CONTRACTOR OF A DESCRIPTION OF A DESCRIP	2 St Pre-Drilling	IN-INTRODUCTION		HITLE		
CH6282120	SB32: Approval Streport	0	6 14	4/05/02A	19/10/02	Martin Honore Foregraphic State Sec. Approval Si report
Sec	2 Bored Filing	咖啡酸	UNICERIE		<b>DURHUNDA</b>	Hand Hand Hazz Approval Si report
CH6285100	SB32; 1st; Bored Pile	0	4 28	8/10/02	31/10/02	sma SB32: tat. Bored Pile
CH8285110	SB32: 1st interface core test	0	7 18	5/11/02	18/11/02	0 0SB32: 1st Interface core test
CH8285120	S032: 2nd Bored Pile	0	4 01	7/11/02	11/11/02	5832: 2nd Bored Plu
CH6285130	SB32: 2nd Interface coro tast	0	1 28	9/11/02	28/11/02	<sup>III</sup> IIISB032: 2nd Interlace core test
CH6285160	S832: 3rd Bored Pile	0	4 14	6/11/02	15/11/02	MIRS832: 3rd Bored Pile
CH6285170	SB32: 3rd Interface core test	0	1 02	\$12/02	05/12/02	BS832: 3rd Interface core test
CH6265180	Sonic test	0	1 05	\$12/02	05/12/02	BSonic test
ML11 Fier SB3 CH6288100	2 Ma Cao		an shi		COLUMN AND	
CH6288110	Sheet File driving	-0		/12/02	17/12/02	Sheet Pile driving
CH6288120	Excavate & shoring support	0		12/02	20/12/02	em IIIIExcavate & shoring support
CH6288120	Cut Pile head	0		012/02	28/12/02	mill-dicut Pile head
CH6288130	Lay binding layer	0		12/02	28/12/02	ELay binding layer
(say one i spin-say and	Formack erection	0		V12/02	30/12/02	B BFormwork erection
CH6288150 CH6285160	Reinforcement fixing	0		v12/02	62/01/03	war WORainforcement fixing
CH6268170	Final fix Formwork/Clean & Concrete Remove formwork & bituminous print.	0		101/03	03/01/03	Final fix Farmwork/Clean & Concreteg
CH6288180	Backler	0		/01/03	06/01/03	Remove formwork & bituminous printilia
CH6288190	Remove the sheet Piles	0		/01/03	06/01/03	#Backfill
and an other states and stat	Column (Type C3/Partal N5832 Inx	interation	2700	/01/03	10/01/03	Remove the sheet Pilestij
CH6291100	1st Column Lift.	0	6 16	/01/03	22/01/03	
NOGE ML11.P	IER SR33	NORMAL PROPERTY AND INCOME.	HERBINA			1st Column Littlibili
W.11 Flor 5-133	SI Pre-Onling	ill lining				
246300110	SB33: Prepare & Submit Si Report	0	4 27	/06/02A	24/10/02	announcestance amount assessment and 5833: Prepare & Submit SI Report
CH6300120	SB33: Approval Si report	0	6 25	/10/02	31/10/02	unitation Biological Silveport
store and a second	Clanal Filing		ANSI OF	HURIDAR		
2H6303100 2H6303110	SB33: 1st Bored Pile 1st: Interface core tast	0			06/12/02	SB33: 1st Bored Pile
and the state of the second	Sonic test	0			24/12/02	Itst: Interface core test
and the owner of the owner	1.1.00 17.0		7 (24) 1000	12/02	24/12/02	0 BSonic test
	TTA Impementation					
>#6312130	SB34: TTA - Meeting with RMO	0	3 31/	08/02A	23/10/02	
346312140	SB34: Receive road works advice	Ū.	2 24/		25/10/02	BISB34: TTA - Meeting with FANO
246312150	SB34: Preparation for commencement.	0	3 26/	10/02	28/10/02	IIIS B34: Receive road works advice
246312160	SB34: Implementation of TTA	0	7 24/	10/02	30/10/02	INSERT Propagation for commencement
100 A 10	Ut Marx & Sorvices Elversions	Hinter	argen a	limit, G	W.Ban F	INVITE: SB34: Implementation of TTA
and the same it was a far summariant	SB34: Utilities detection & trial pit excavation	0	4 25/	04/02A	24/10/02	entropy of a second
	SB34: Drainage Diversion (300)	0	11 31/		12/11/02	Biometric Sector & Internet Development
	SI Pre-Ditting:		much	BIBBRO	The schole	
	SB34: Site investigation	0	5 31/		05/11/02	GB34: Site investigation
	SB34: Prepare & submit the Si report	0	2 06/		07/11/02	IIISB34: Prepare & submit the St report
No. 275	S834: Approval Pre-drift Si report	. 0	2 06/	11/02	09/11/02	mi MISB34: Approval Pre-dril Si report
S	Bored Filing SB34: 1st Bored Pile	CT IN COL		diliciti i		
	SB34: 1st: Bored Pae SB34: 1st: Interface core test	0	4 11/		14/12/02	S834: 1st Bored Pile
	SB34: 1aC Interface core test SB34: 2nd; Bored Pile	0	1 044		04/01/03	S834: 1st: Interface core test
in the second		0	4 18/		21/12/02	SE34: 2nd: Bored Pilo
-soc 1130	SB34: 2nd: Interface core test	0	1 114	600 a	1/01/03	SB34: 2nd: Interface dore test
UR9214AD	SB34: 3rd: Bored Pile	-03	4 234	12/02 2	28/12/02	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
			12 2 2 2	1011121	2/21/10/10	
H6321150 8	SB34: 3rd: Interface core test SB34: Sonic test	0	1 164		6/01/03	SB34: 3rd: Interface core test

Activity ID	Activity Description		Orig Dur	Early Start	Early Finish	Al SLP 2 9 16 23 30 1	0CT 7 14	2002 2003 NOV DEC 1.001 21 28 4 11 18 25 2 9 16 23 39 6 13 20
MLT1 Per SB34 CH6324100	SB34. Sheet Pile driving	0	2	17/01/03	18/01/03			SB34: Sheet Pile driving
Contraction in the second s	TER SB050M1	ienuu	HEAD	HELECTRO	<u>kunnen</u> er			
ML11 Per SB35 CH6336120	SB P & Eniling SB35: Approval SI report	0	6	12/09/02A	24/10/02	-		
ML11 Pier SU35	o de la maissi de conservicio en la conservicio de la conservación de la conservación de la conservación de la c	1999 BILLING		<b>MARKADON</b>	AN SAME			SB35: Approval SI report
CH6339100	SB35: 1st Bored File	400	4	02/10/02A	12/10/02A		SB36	1st Bored Pile
CH6339110	SE35: 1st Interface core test	<u>n</u>		31/10/02	31/10/02		- 100000	MSB35: 1ot Interface core test
CH6339140	SB35: 2nd Bored File	U		21/10/02	24/10/02			SB35 2nd Bored Pile
CH6339150 CH6339180	SB35: 2nd Interface core test. Sonic test	0		11/11/02	11/11/02			BSB35: 2nd Interface core test
RIDGE ML11 P			EHIORE	THE REAL PROPERTY OF	1971092			RSonic test
ML11 Pier SEGR			1121				- 1	
CH6357130	SB36: 2nd: Interface care test	100		23/09/02A	23/09/02A	#S836: 2nd:	Interface of	ore test
CH6357150	SB36: 3rd: Interface core test	100		24/09/02A	24/09/02A	RS836: 3rd	376.51 N	tone test
CH6357180	SB36: Sonic test	100	ANDER	26/05/02A	26/09/02A	SB36: Sc	onic test	
RIDGE MITA P	*****							
	Utilities & Exercise Diversions	HEDRIGER	CORR DA				COMMUNICATION OF	
CH6654120	NB37: Water main diversion (3000.1) (FW40) / St Pra Or Mog	0 ESCHILLER	33	21/10/02	27/11/02			Madauldadi madulati Madaulut NB37: Water main diversion (300D.I) (FW40)
CH6687120	NB37: Approval SI Report	0	6	17/08/02A	26/10/02	a and a state of the second	errennin'	IIIIIINE37: Approval Si Report
and a second second second second	Bored Pang				desala di Angela			
CH6690100	NB37: 1st Bored Pile	8		30/12/02	03/01/03			UNUNB37: 1st Bored P
CH6690120	NB37: 2nd Bored Pile	0	4	11/01/03	15/01/03	-		NB37: 2nd Bored Piloting
FODGE MUNA: P	hER NEDI 1 Utilies & Services Diversions							
CH6705120	NB38: Drainage diversion (750)	D	31	21/10/02	25/11/02			Innumministrational Investor (750)
anapage and a second seco	13 Pre-Orikna	CERTIFIC	141.	980014Sig	KURHANA		No.	
CH6708120	NB38: Approval SI Report	0	6	23/08/02A	26/10/02	noninin <u></u>		UIIIIINB38. Approval St Report
ML14: Pile: NB38 CH6711100	N838: 1st Bared Pile	Desiring the second	4	27/12/02	31/12/02			CETA REPORT OF A DESCRIPTION OF A DESCRI
CH6711110	NB38: 1st Interface	D		18/01/03	18/01/03			NB38: 1st Bored Pile Do NB38: 1st Interface@
CH6711120	NB38: 2nd Bored Pile	0	4	09/01/03	13/01/03			NB38: 2nd Bared Pileting
RIDGE MUTA: P					No. 1			
AL14: Pilar NB35 CH6725120	Dtillus & Services Diversions NB39: U-channel diversion (300)	Contraction of the	line.	21/10/02	23/11/02		No. of Concession, Name	
	51 Pre-Drilling	0		21/10/02	liantaankii			Initial Initial Initial Initial NEXE: U-channel diversion (300)
CH6729110	NB39: Prepare & Submit SI Report	0	*	17/08/02A	24/10/02			WIN839: Prepare & Submit SI Report
CH8729120	NB39: Approval SI Report	Ū	6	25/10/02	31/10/02		mannapen	IIIIIIINB39: Approval SI Report
ML14 Piec NB3	Print and the second		HHAR	笔前出门				Land Land Land Land Land Land Land Land
CH6732100 CH6732140	NB39: 1st Bored Pile NB39: 2nd Bored Pile	0		02/01/03	07/01/03		- 1	NB39. 1st Bored Predition
RIDGE ML14: P		COLORING IN COLORING	ennes Annes	14/01/03	1807/03			NB39: 2nd Bored Pile
MI 14: Pier NE40								
CH6750110	NB40: Prepare & Submit SI Report	0	· · · ·	03/09/02A	24/10/02	Designational Contract Contract		IIIINB40: Prepare & Submit SI Report
	NB40: Approval SI Report	0	- 6 1111111	25/10/02	31/10/02	· · · · · · · · · · · · · · · · · · ·		IIIIIIINB40: Approval SI Report
ML14 Pear NB4E CH6753100	NB4C: 1st Bored Pile	- O	2014/09 5	06/01/03	10/01/03			NB40: 1st Bored Piloteen
CH6753140	NB40: 2nd Bored Pile	0		17/01/03	22/01/03			NB40. 2nd Bured Piletiniti
	CRAWLING MARKED STREET	<b>İHHHHƏ</b>	SHILL	HIMA 2	1. A BERNARD AND A BERNARD AND A BERNARD AND A BERNARD AND A BERNARD AND A BERNARD AND A BERNARD AND A BERNARD			
ML14, Pier Nita	Dependence of the second s		A DE LA CAL		<b>Filmen</b>	CONTRACTOR AND INCOME		
CH6771100	NB41: Site investigation NB41: Prepare & submit the Si report	50		05/09/02A	06/11/02			suma suma suma suma suma suma suma suma
246771120	Approval SI report	0		12/11/02	18/11/02			miniNB41: Prepare & submit the SI report
VL14 Flor NB41	a committee des normanies and a ten data data in the second statements of the		SHIP		<b>GERGENHUS</b>			IIIIIIIApproval SI report
CH6774100	1st. Bored Pile	0	5	06/01/03	10/01/03			Sillipitst: Bored Pi
CH6774120	2nd. Bored Pile	0	5	13/01/03	17/01/03			2nd: Bored Pitelilli
FIDGE MUNA P								
CH8792110	G0. Prepare & Submit SI Report	100	4	14/08/02A	30/09/02A	C2+ F	Teicere &	ubmit SI Report
2+16792120	G0: Approval SI Report	0	5	02/10/02A	26/10/02			IIIIII GO: Approval Si Report
VL14: Plac GO B	And and a second s	HARD CO.	annan					
0146795100	G0: 1st Bored Pile	0		03/12/02	07/12/02			GO: 1st Bored Pile
CH6795110	Tst: Interface core test	0		27/12/02	27/12/02			entron Wist: Interface core test
CH6795140	G0: 2nd Bored Pile 2nd: Interface core test	0		12/12/02 07/01/03	17/12/02 07/01/03			GO: 2nd Bored Pile
246795130	Sonic test	0		07/01/03	07/01/03			2nd: Interface core test)
FOLXER MU14: P	and the second se	ALC: NO		STATISTICS.	HALL HALLAND			liSonic lest
IL (4: Pier G II)	() St Pilo Diffing	Lasteria (						
CH6813100	Site investigation	70		05/09/02A	06/11/02	AND DESCRIPTION OF THE OWNER		International State Investigation
CH6813110	Prepare & submit the SI report	0	-	07/11/02	11/11/02			IIIIIPrepare & submit the Si report
CH6813120 ML14 Pior G10	Approval Si report () Boyst Psing	ensinani Rishiani	5	12/11/02	18/11/02			WIWIIIApproval SI report
CH6816100	1st. Bored Pie	Cinempting	5	09/01/03	14/01/03			1st: Bored Premimu
H6816120	2nd: Bored Pile	0	5	16/01/03	21/01/03			2nd: Bored Piteliillii
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RIDGE HE PIEL								
RIDGE HT: PIEL		100		25/09/02A	25/09/02A	1	nterface co	

Activity ID	Activity Description	% Comp	Orig Dur	Early Start	Early Finish	A SEP OCT NOV DEC JAN 2 9 16 23 20 7 14 21 28 4 11 18 25 2 9 18 23 30 6 13 20 2
CH4015150	H0: 3rd: Interface core test	100	.1	26/05/02A	26/09/02A	IH0 3rd: Interface core test
unite concernance	Printing and an and a state of the second se	entra de la	ernie		APP CONSTANT	
CH4020100	HD: PILE CAP - Sheet Pile driving	0		21/10/02	22/10/02	IIIH0: PILE CAP - Sheet Pile driving
CH4020110	H0: PILE CAP - Excavale & shoring support	0		23/10/02	25/10/02	WIHO: PILE CAP - Excavate & shoring support
CH4020120	H0: PILE CAP - Cut Pile head	0		26/10/02	31/10/02	BIIIIIIHO: PILE CAP - Cut Pile head
CH4020130	H0: PILE CAP - Lay blinding layer	0		31/10/02	31/10/02	BH0: PILE CAP - Lay blinding layer
CH4020140	H0: PILE CAP - Farmwork erection	0	-	01/11/02	01/11/02	IHO: PILE CAP - Formwork erection
CH4020150	H0: PILE CAP - Reinforcement fixing	-0		01/11/02	04/11/02	IIIIIHi0 PILE CAP - Reinforcement fixing
CH4020160	H0: PILE CAP - Final fix Formwork/Clean/Concrete	0		05/11/02	05/11/02	RHD: PILE CAP + Final fix Formwork/Clean/Concrete
CH4020170	H0: PILE CAP - Remove Fornwork & Waterproof	0	- 1	06/11/02	07/11/02	IBH0: PILE CAP - Remove Formwork & Waterproof
CH4020180	H0: Backfil	.0	- 2	08/11/02	09/11/02	IIHO: Back/II
CH4020190	H0: Remove the sheet Piles	-0		11/11/02	12/11/02	EHD: Remove the sheet Pies
energy in the second second	umer (Type C3/T3M ho/kow)	CENTER	UN UN UN		HUINESSIE	eccure a
CH4025100	H0: 1st Column Lift	0		13/11/02	19/11/02	IIIIIIIIIHH0: 1st Column Lift
CH4025110	H0: 2nd Column Lift	0		20/11/02	26/11/02	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
CH4025120	H0: 3rd Column Lift	0		27/11/02	03/12/02	IIIIIIIIiiiiiiiiiiiiiiiiiiiiiiiiiiiiii
CH4025122	H0: 4th Column Lift	.0	· · ·	64/12/02	10/12/02	IIIIIIIIhito: 4th Column Lift
CH4025124	HD: 5th Column Lift	.0		11/12/02	17/12/02	BBBBBH0: 5th Column Lift
RIDGE HILPIEI						
11: Flor H1 Bon CH4045130	ed Filing H1: 2nd: Interface core test	100	HILLIN.	23/09/02A	23/09/02A	in Auto a second
CH4045130	H1: 2nd: Interface core test H1: 3rd: Interface Core Test				23/09/02A	IH1: 2nd: Inforfacio con test
		100		24/09/02A	and the second second second	H1: 3rd, Interface Core Test
CH4045180	H1: Sonic test Cao	100		26/09/02A	27/09/02A	Erift: Sonic test
CH4050100	Gat H1: Sheet Pile driving	C C C		13/11/02	14/11/02	
CH40501100	H1: Excavale & shoring support	0		15/11/02	18/11/02	III+11: Sheet Pile driving
CH4050110	H1: Cut Pile head	0		19/11/02	23/11/02	IIIIIH1: Excevate & shoring support
						IIIIIIH1. Cut Pile head
CH4050130	H1: Lay binding layer	0		23/11/02	23/11/02	BH1: Lay blinding layer
CH4050140	H1: Formwork erection	0		25/11/02	25/11/02	BH1: Formwork eraction
CH4050150	H1: Reinforcement fixing	0		25/11/02	27/11/02	IIIIH1: Reinforcement foing
CH4050160	H1: Final fix Formwork/Clean & Concrete	0		28/11/02	28/11/02	IH1: Final fix Formwork/Clean & Concrete
CH4050170	H1: Remove formwork & bituminous print	0		29/11/02	30/11/02	BH1: Remove formwork & bituminous print.
CH4050180	H1: Back/il	0		02/12/02	03/12/02	Ille11: Backfill
CH4050190	H1: Remove the sheet Piles	0	2	04/12/02	05/12/02	IIIH1: Remove the sheet Piles
Contraction of the other states of the state	ama (Type G.).T3 no low)	ATTAIL FRAME	8115	Liausas		Automation and Automation
CH4055100	H1: 1st Column Lift	0		18/12/02	24/12/02	illimitiiH1: 1st Column Lift
CH4055110	H1: 2nd Column Lift	0		27/12/02	03/01/03	BBBHBH1: 2nd Column I
CH4055120	H1: 3rd Column Lift	0		04/01/03	10/01/03	H1: 3rd Column Lithauaa
CH4055122	H1: 4th Column Lift	0		11/01/03	17/01/03	H1: 4th Column Liftiliaitia
CH4055124	H1: 5th Column Uit	0	6	18/01/03	24/01/03	H1: 5th Column Lift@BBBB
NRIDKSE HIN PLET						
CH4065120	tes & Services Diversions H2: Drainage Diversion (750MMe)	0	-31	21/10/02*	25/11/02	
HT Pier H2 SLP	the data of the based of the distance of the data of the based on the second second second second second second	REALINE	<b>BIHB</b>	<b>SINUSA</b>		Uninummental International Int
CH4070120	H2: Approval SI Report	0	· 6	20/09/02A	26/10/02	Homman Anno Anno Anno Anno Anno Anno Anno An
Ht. Pier H2 Bore	ed Filing	SAMAN I	Inst	an sea a	AND DESCRIPTION	and the subject of the sub-
CH4075100	H2: 1st Bored Pile	0	्य	30/11/02	04/12/02	WHITH H2: 1st Bored Pile
CH4075110	1st: Interface core test	0	1	21/12/02	21/12/02	e Bist: Interface core test
CH4075160	H2: 2nd Bored Pile	0	4	10/12/02	13/12/02	HILL: 2nd Bored Pile
CH4075170	2nd: Interface core test	0	1	03/01/03	03/01/03	2nd: Interface core test
CH4075180	Sonic test	0	1	03/01/03	03/01/03	Bonic tast
11 Plot HZ Fire	and a disconsistence of the state of the sta	ia anna		(ALC: NO. 17	A BORN	
CH4080100	Sheet Pile driving	0	2	64/01/03	05/01/03	IlliSheet Pie drivi
CH4080110	Excavate & shoring support	0	3	07/01/03	09/01/03	Excevate & shoring support/lill
CH4090120	Cut Pile head	0	5	10/01/03	15/01/03	Cut Pile head IIIIII
CH4080130	Lay blinding layer	6		15/01/03	15/01/03	Lay binding layerit
CH4080140	Formwork erection	0	.1	16/01/03	16/01/03	Formwork erection
CH4080150	Reinforcement fixing	0		16/01/03	15/01/03	ear Reinforcement fixingial
RECEIPT PE	1 - 11/10/10/10/10/10/10/10/10/10/10/10/10/1	<b>HIDDAN</b>	<b>NAME</b>	(A) (HA) SHOT	Concernition	remotoement hangaal
HT Plot HTSLF						
CH4100110	H3: Prepare & Submit SI Report	0	- 3	10/08/02A	24/10/02	and an and a second difference and the second difference and the second se
CH4 100120	H3: Approval SI report	0	6	25/10/02	31/10/02	UIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
H1 Per H3 Boo	ed Filmp	ERAWARH	18129	12-2161.2181	NATES AN	
CH4105160	H3: 1st Bored Pile	0	5	28/11/02	03/12/02	Internet Pilo
CH4105110	Tst: Interface core test	0	- ()	20/12/02	20/12/02	Bitst: Interface core test
CH4105140	H3: 2nd Bored Pile	0	ŧ	07/12/02	12/12/02	Will S 2nd Bored Pile
CH4105150	2nd: Interface core test	0	1	02/01/03	02/01/03	2nd: interface core testil
CH4105180	Sonic test	0	1	02/01/03	02/01/03	liSonic test
H Per H3 Pie	Cas	ALTERNA &		ALC: NO	(REINIGAL	MONTHE HEL
CH4110100	Sheet Pile driving	0	.2	03/01/03	04/01/03	CI IlliSheet Pie drivin
014110110	Excavale & shoring support	0	: . :a	06/01/03	08/01/03	Excavate & shoring supportill
H4110120	Cut Pile head	0		09/01/03	14/01/03	Cit Piè headinm
H4110130	Lay binding layer	0		14/01/03	14/01/03	
0H4110140	Formwork erection	0		15/01/03	15/01/03	Lay binding layer
		0		15/01/03	17/01/03	Formwork erection
	Reinforcement fixing	0		15/01/03	17/01/03	Reinforcement fixing III
CH4110150 CH4110160	Final fix Formwork/Clean & Concrete	0				Final fix Formwork/Clean & Concrete®

Activity ID	Activity Description	N Comp	Orig Dur	Early Start	Early Finish	A SEP 007 2002 NOV 1 DEC 2003 2 8 16 23 30 7 14 21 28 4 11 18 25 2 9 16 23 30 6 13 20 27
Ht: Herhills (	Puer Dr Mang		UTE	863 M III 1969		
CH4130110	H4: Prepare & Submit SI Report	0	4	22/08/02A	24/10/02	Nille number and the second second second second second second second second second second second second second
CH4130120	H4: Approval SI report	0	6	25/10/02	31/10/02	IIIIIIIIHH4 Approval SI report
H1: Plat H4 But	ed Ring H4, 1st Bored Pile	0	5	26/11/02	30/11/02	ami
CH4135100 CH4135110	1st: Interface core test	0		18/12/02	18/12/02	HIMIH4: 1st Bored Pile
CH4135120	H4: 2nd Bored Pile	0		05/12/02	10/12/02	Bist: Interface core test
CH4135130	2nd Interface core test	0		30/12/02	30/12/02 :	40000H4: 2nd Ecred Pile
CH4135140	H4: 3rd Bored Pile	0		14/12/02	19/12/02	02nd: Interface core test
CH4135160	and interfaces open text	0		09/01/03	09/01/03	William H4: 3rd Bored File
CH4135180	Sonic test	0		09/01/03	09/01/03	3rd: Interface core testa
ONSTRUCT BR		HHHEH	10100	ALCORE OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER	CONCINCT.	IIScnic test
BRIEGE H2 PIE	RH5 Ilors & Services Diversions					
CH4210100	Remove existing U-channel (225)	0	15	05/12/02	21/12/02	Remove existing U-channel (225) (Ultraminitude)
and a second sec	To Dring		1000	23/12/02	06/01/03	in the second se
CH4215100	Site investigation	0				B-still/Bill/Site investigation
CH4215110	Prepare & submit the St report	0		07/01/03	10/01/03	Prepare & submit the SI reportant
CH4215120	(Approval SI report	0	5	11/01/03	17/01/03	Approval SI reportaitat
REALIZE HIG FIE H2. Filer HIS SLE			PLOID:			
CH4245100	Ste investigation	:0	10	07/01/03	17/01/03	Site investigation/minimum
CH4245110	Prepare & submit the St report	0		18/01/03	22/01/03	Prepare & submit the Si reporting
BRIDGEHTIRE				C. C. C. C. C. C. C. C. C. C. C. C. C. C		anepare o suoma me of reportana
H2. Pior H7 SH					en en en en en en en en en en en en en e	
CH4275100	H7: H7: Site investigation	0	. 10	18/01/03	29/01/03	H7 H7: Site investigation
MULTING DISCUSSION	RHOG ( STACE 3)	UTHORSHIP:	UTALITY	a santi		
	lates & Services Depinces	eth Huel	A HARA	12/11/02	10/12/02	time in the second second second second second second second second second second second second second second s
CH4365103	H9S: LCR: H9S - Firemain Diversion (Stage 3)	0		man and a	100 V 100 V	H9S: LCR: H9S - Firemain E version (Stage 3)
CH4365104	H9S: Construct Firemain Thrust Blocks & Backfill	0	15	11/12/02	30/12/02	H9S: Construct Firemain Thrust Blocks & Backfillmannum-mill
H2 Pick H95.5/ CH4370100	Pre-Didlog H9S: SI Pre-drilling	0	10	18/01/03	29/01/03	
ONSTRUCTOR	and the second state of the second second second second second second second second second second second second	<b>ALISTICAL</b>	u Homini	MANAGANAN	HURBER	M9S; SI Pre-drilling National
BROGE VL13	***************************************		- Hill		<b>BERGER</b>	
	2 TTA Implementasco	1911				NUMERICAN DE LA CONTRACTION DE LA CONTRACTICA
CH6564100	SB37: Prepare TTA Drgs (SB37 Cap)	0	13	21/10/02*	02/11/02	InitialitisB37: Prepare TTA Drgs (SB37 Cap)
CH5564101	SB37: Endorse TTA Drgs by the Eng.	0	7	03/11/02	09/11/02	IIIIIIIRS837: Endorse TTA Digs by the Eng.
CH6564102	SB37:Apply traffic advice/gazette notice from TD	0	: 14	10/11/02	23/11/02	International Sector Apply traffic advice/gazette notice from TD
CH8564103	Meeting with RMO	0	3	24/11/02	26/11/02	IIIIMeeting with RMO
CH\$564104	Receive road works advice	0	2	27/11/02	28/11/02	IIIReceive road works advice
CH6564105	Preparation for commencement	0	3	29/11/02	01/12/02	IIIIPreparation for commencement
CH6564106	implementation of TTA	0	7	27/11/02	03/12/02	Einimitimplementation of TTA
ML13 Per 583	7 SI Pre-Drilling					
CH6570110	SB37: Prepare & Submit SI Report	100	. 4	02/08/02A	30/09/02A	enumerate and SB37: Prepare of Bulowit SI Report
CH6570120	SB37: Approval SI report	0	6	02/10/02A	26/10/02	Riseconto-Exam IIIIII 3B37: Approval SI report
ML13 Per S85	and the second		9 Mill	BATGER BY		62200
CH6573100	5837: 1st Bored Pile	0		31/12/02	04/01/03	NUBSB37: 1st Bored PW
CH5573160	SB37: 2nd Bored Pile	.0	4	15/01/03	18/01/03	SB37: 2nd Bored Pile
BRIDGE MU13 M. 13: Pier 583 CH5585100	P ER Saae 8 TTA Implementation SB38: Prepare TTA Drgs (Drainage & SB38 Cap)	0	13	11/09/02A	24/10/02	
CH6585101	SB38: Endorse TTA Drgs by the Eng.	0		25/10/02	31/10/02	HillSB38: Prepare TTA Drgs (Drainage & SB38 Cap)
CH6585102	SB38: Apply TD Traffic Advice/Gazette Notice	0		01/11/02	14/11/02	UMUMISB38: Endorse TTA Drgs by the Eng.
CH6585103	SB38: Meeting with RMO	0		15/11/02	17/11/02	International International States and State
CH6565103	SB38: Receive road works advice	0		18/11/02	19/11/02	IIIIISB38: Meeting with RMO
				20/11/02		IBSB38: Receive road works advice
CH6585105	SB38: Preparation for commencement	0		C	22/11/02	IIIISB38: Preparation for commendement
CH6555106	SB38: Implementation of TTA	0. Ninterest	7 111118	18/11/02	24/11/02	IIIIIIIIIS838: Implementation of TTA
CH6588110	8 En Hirs & services Olversions SB38: Unities detection & trial pit excavation	50	A N	07/05/02A	22/10/02	The second second second second second second second second second second second second second second second se
CH6588120		- 50		23/10/02	25/11/02	Reconciliation of the second
Contractor and the second	SB38: Drainage diversion (750) IS St Pre-Drifting	ACCULATION OF THE OWNER OWNER OWNE	29 111115	and rords	administration	Uncontrol of the second s
CH6591100	SISTERED Ing SB38: Site investigation	0	10	26/11/02	05/12/02	
CH6591110	SB38: Prepare & submit the SI report	0		07/12/02	11/12/02	UNITED STATES AND A STATES AND
CH6591120	S838: Approval St report	0		12/12/02	18/12/02	millisess: Proper & submit the SI report
ML13 Per SB3	สมหรับสองสมออกสาวสาวสาวสาวสาวสาวสาวสาวสาวสาวสาวสาวสาวส	1 Million	111111		<b>HUNGOU</b>	CilimititiSB38: Approval SI report
CH6594100	SB38: 1st: Bored Pile	0	4	27/12/02	31/12/02	COM Let Board Die
CH6694110	SB38: 1st: Interface core test	0	-	18/01/03	18/01/03	SB38: 1st: Bored File SB38: 1st. interface core testil
CH6594160	S838: 2nd Bored Pile	0		11/01/03	15/01/03	10000
EFEDGE MUTS I	PIER Size			HEIMANIKSIA	Renational	SB38: 2nd Bored Pile Mate
CH6605100	SB39: Prepare TTA Drgs (SB39 Cap)	0	13	11/09/02A	24/10/02	Manual and Company and Company and Company and Company and Company and Company and Company and Company and Comp
CH6606101	SB39: Endorse TTA Drgs by the Eng.	0		25/10/02	31/10/02	Millings Millings Endorse TTA Drgs by the Eng.
CH6506102	SB39: Apply for TD Traffic Advice/Gazette Notice	0		01/11/02	14/11/02	Rest Contraction and Contracti
CH6606103	Meeting with RMO	0		15/11/02	17/11/02	Infinitum BB39: Apply for TD Traffic Advice/Gazette Notice
CH6606104	Receive road works advice	0		18/11/02	19/11/02	iiiiMeeting with RMC)
CH6606105	Preparation for commencement	0		20/11/02	22/11/02	milificaceive road works advice
CH6606106	Implementation of TTA	0	-	18/11/02	24/11/02	HillPreparation for commencement
annione raconneces in i anni	E Littles & Genues Diversions	CHURNER CO.	NIHUR	A CONTRACTOR	INCOMPANYABLE OF	United Implementation of TTA
CH6609120	Remove existing LV cable	0	2004)))))) 5	25/11/02	29/11/02	
	and a starting of states			200 3 1000	Low Finde.	fillitRemove existing LV cable

Activity ID VL10: Pier S609 5	Activity Description	% Comp	Ong Dur	Early Start	Earty Finish	A SEP OCT 2002 DEC 2003 2 9 16 23 30 7 14 21 28 4 11 18 25 2 8 16 23 30 6 13 20 20
and the second	ite investigation	0	.5	07/12/02	12/12/02	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
CH6612110 F	mpare & submit the SI report	0	2	13/12/02	14/12/02	IIIPrepare & submit the Si report
246612120 /	Approval SI report	0	3	16/12/02	18/12/02	MillApproval SI report
(L13: Per \$839)			(UHUR		出出加强的	
California de la calegaria de la c	B39: 1st Bored Pile	- 0		21/12/02	28/12/02	Billion Sease: 1st Bored Pile
	B39: 1st Interface core test	0		16/01/03	16/01/03	SB39: 1st Interface core testa
	5839: 2nd Bored Pile	0	5	08/01/03	13/01/03	SB39. 2nd Bored Pilemun
RICCE ML13 PH						
1.13 Pier 5840 3 H6633100 1	Ste investigation	100	10	27/09/02A	09/10/02A	Site investigation
	Yepara & submit the SI report	0		10/10/02A	22/10/02	water and a submit the St report
- in a large state of the second	Approval SI report	0	· · · · ·	23/10/02	25/10/02	
LTJ. Pier SBID	and a second second second second second second second second second second second second second second second	ahonasa	inni i	A CONTRACTOR OF A CONTRACT		AllApproval Streport
	3640: 1st Bored Pile	0	5	18/12/02	23/12/02	Billion SB40: 1st Bored Pile
16636110	5B40: 1st interface core lest	0	1	13/01/03	13/01/03	SB40: 1st Interface core test[]
045636120	5840: 2nd Bored Pile	0	- 6	04/01/03	09/01/03	SB40: 2nd Bored Piletting
H\$636140	SB40: 3rd Bared Pile	0	5	18/01/03	23/01/03	SB40 3rd Bornd Pin with
ASTRUCT BRID	GE ML15 - STAGE 3 WORKS	BHHHE	anner	CONTRACTOR OF	REPRESE	
RIDGE ME15 PM	R SG41					
	TTA Implementation	A LEBBRAR				· · · · · · · · · · · · · · · · · · ·
	SB41: Prepare TTA Drgs (SB41CAP)	0		21/10/02*	10/11/02	unmunification SB41CAP)
	Endorse TTA Drgs by the Eng.	0		11/11/02	17/11/02	IIIIIIIEndorse TTA Drgs by the Eng.
	Apply traffic advice/gazette notice from TD	0		18/11/02	01/12/02	Building Building Apply traffic advice/gazette notice from TD
	Meeting with RMO	0		02/12/02	04/12/02	iiiiMeeting with RMO
CH6861140	Receive road works advice	0		05/12/02	06/12/02	IllReceive road works advice
CH6861190	Preparation for commoncement	0		07/12/02	09/12/02	LillPreparation for commancement
	mplementation of TTA	0	1	05/12/02	11/12/02	IIIIIIIIInglementation of TTA
	Utilities & Services Diversions		친비법	THE PARTY OF	NAMES IN COLUMN	Contracting approximation of the Contraction of
and a shall also prove the	Remove existing U-channel (225)	0		05/12/02	11/01/03	Pernove existing U-channel (225) and an and a second secon
CONTRACTOR OF A DESCRIPTION OF A DESCRIP	5841: Utilities detection & trial pit excavation	99	launa	14/08/02A	19/10/02	and the second
11111441010100000000110	S. Place the second second second second second second second second second second second second second second	alenunes D	(GANIH	13/01/03	23/01/03	International Action of the Ac
>H6867100	Site investigation	admunia	ionada		12301003	Site investigation
RIDGE MAIN PL		<b>MADINA</b>				
	Acides & Services Diversions					
deline and the second se	NB29: Water main diversion (150S.V)	0	51	21/10/02	18/12/02	NB29: Water main diversion (150S.V (IIII)) and a submitted of the anti-
RIDGE MIL 10 PU	ER NB3C(M)	<b>CERLICIE</b>	in the second	HIRING		
Mittl: PerrNB3D	Unites & Services Diversions	i philit	12 PUT			
and the state of t	NB30 Watermain diversion (400D.1)	25	11	20/09/02A	08/11/02	Feature exercise emotionalitication (4000.1)
MI 10 Part NB30	and the second se	IBICITICITI	, Hurtl		ETTER BRAUDY	(manaaraa
in the second second	NB30: Approval OF St report	0	9	20/09/02A	26/10/02	Happing coloring matchillen B30: Approval OF SI report
ti tinci ti ti nici ti ti ti ti ti ti	kired Filling	0	Designed of	14/11/02	18/11/02	
	NB30: 1st Bored Pile	0	<u> </u>	05/12/02	05/12/02	WWWNB30; 1st Bored Pile
	tist: interface core test	-		21/11/02	25/11/02	Utst: Interface core test
	NB30: 2nd Bared Pile	0				MININB30: 2nd Bored Pile
and a spinist of the second second second second second second second second second second second second second	2nd: Interface core test	0		12/12/02	12/12/02	2nd: Interface core test
Carorest wares in the second	NB30: 3rd Bored Pile	0		28/11/02	02/12/02	Built B30: 3rd Bored Pile
	3rd: Interface core lest	0		19/12/02	19/12/02	Brd: Interface core test
condensation and statement of the	Sonic test	0	anuties.	19(12)02	19/12/02	Bonio test
ML10: Pier NB30	Contraction of a contraction of the contraction of	0		20/12/02	21/12/02	
	Sheet Pile driving			23/12/02		Sheet Pile driving
	Excavate & shoring support				27/12/02	B=6Excavate & shoring sup
	Cut Pile head	0		5 28/12/02	03/01/03	e will Hill Cut Pile head
	Lay blinding layer	0		03/01/03	03/01/03	BLay binding layer
	Formwork erection	0		04/01/03	04/01/03	IF conwork eraction
	Reinforcement fixing	0		04/01/63	07/01/03	Reinforcement fising
CH6180160	Final fix Formwork/Clean & Concrete			05/01/03	08/01/03	Final fix Formwork/Clean & Concrete
CH6180170	Remove formwork & bituminous print	0	<u> </u>	2 09/01/03	10/01/03	Remove formwork & bituminous printil
CH6160180	Backfill	0		11/01/03	13/01/03	iiii Backfil
	Remove the sheet Piles	0	1	14/01/03	15/01/03	Femove the sheet Piest
and the second second second	Column (Type G3 hohow)		, IIIII	PHNA GOD		interest of the second s
COLUMN TWO IS NOT THE OWNER.	1st Column Lift	0	1	5 16/01/03	22/01/03	tst Column Liftaman
FIDGE M. 10' P						
	N Dill flas & Services Diversions NE28N   Million detection & Trial Pit		A STREET	19/09/02A	24/10/02	
	NB2BN: Utilities detection & Trial Pit					B-cannal-cannot the fill NE22N. Utilities detection & Trial Pit
	NB28N: Drainage diversion (450)	0		2 25/10/02	30/11/02	United and United and
and the second se	Water main diversion (300D.1)	30	3	27/09/02A	26/11/02	
	ER NO285(M)			Intra Manager		
TO CONTRACTOR OF THE OWNER	S Utimes & Services Diversions NB285: Utilities Detection & Trial Pit		NUMPER OF	25/10/02	29/10/02	HIGH DONC, Under Consider & Teld Str
NSTRUCT BRID	IGE ML9					MillINB28S: Utilities Detection & Trial Pit
****************	Alther & Services Diversions		Pill?	24 AUR SI	1 - 16.46	
Contraction of the second second second second second second second second second second second second second s	SB29: Utilities Detection & Trial Pit		1.5	4 30/10/02	02/11/02	IIIIISB29: Utilities Detection & Trial Pit
RIDGE M. 9 PIE	R 5830 (M)					
ML9, Play SE30 S						
CH5955110	Prepare & submit the SI report	100		4 21/05/02A	A20/60/06	Installing with the Followid Prepare & submit the SI report
	Approval SI report	1 6	4 - 1 i	5 02/10/02A	19/10/02	corroval SI report

Activity IO MLP Per SEX	Activity Description	% Comp	Ori; Dur		Early Finish	A SEP 0C7 NOV DEC 2003 12 9 16 23 30 7 14 21 28 4 11 18 25 2 9 16 23 30 6 13 20
CH5958100	SB30: 1st Bored Pile	0		4 24/10/02	28/10/02	SB30: 1st Bored Pile
CH5958110	1sk Interface core test	0	-	1 14/11/02	14/11/02	Bitst: Interface core test
CH5958120	SB30: 2nd Bored Pile	0		4 04/11/02	07/11/02	International Sector And And And And And And And And And And
CH5958130	2nd: Interface core test	0		1 25/11/02	25/11/02	B2nd Interface core test
CH5958140	S830: 3rd Bored Pile	0		4 11/11/02	14/11/02	BB30r 3rd Bored Pile
CH5958150	3rd: Interface core test	0		1 02/12/02	02/12/02	Bard: interface core test
CH5958180	Sonic lest	0		1 02/12/02	02/12/02	R ISonic test
VL9, Pier SD/R		<b>WHITE</b>	<b>BERTH</b>			
CH5961100	Sheet Pile driving	0		2 03/12/02	04/12/02	Sheet Pile driving
CH5961110	Excavate & shoring support	0	<u> </u>	3 05/12/02	07/12/02	INExcavate & shoring support
2H5961120	Cut Pile head	0	·	5 09/12/02	13/12/02	milliCut Pile head
CH5961130	Lay blinding layer	0		1 13/12/02	13/12/02	IL ay blinding layer
CH5961140	Formwork erection	0		1 14/12/02	14/12/02	Formwork erection
CH5961150	Reinforcement fixing	0		3 14/12/02	17/12/02	Hill Reinforcement fixing
CH5961160	Final fix Formwork/Clean & Concrete	0	-	18/12/02	18/12/02	Final fix Formwork/Clean & Concreto
CH5961170	Remove formwork & billuminous print	0	_	2 19/12/02	20/12/02	Romove formwork & bituminous printer
CH5061180	Backfill	0		21/12/02	23/12/02	ana ana ana ana ana ana ana ana ana ana
CH5961190	Famove the sheet Piles	0 rrrrssnets		24/12/02	27/12/02	Indifference the sheet Pa
%6 Pie S83 H5964100		ann an the	, and the		In the second	
-	1st Column Lift	0		3 28/12/02	04/01/03	Rep-With 1st Column Lift.
245964110	2nd Column Lift	0		3 06/01/03	11/01/03	2nd Column Liftanian
>15964120	3rd Column Lift	0		13/01/03	18/01/03	3rd Column Liftainen
*****	RDAD WORKS THES DIVERSIONS & ROAD WORKS 1A Works					
3-13470120	Installation deflector barrier at G12S	0	10	03/01/03	14/01/03	
CH9535120	Installation deflector barrier at G13S	0	- 112	03/01/03	14/01/03	Installation deflector barrier at G125 announce www.installation.com
COLUMN TWO IS NOT	R G3-STACE 1A	and the second		A CONTRACTOR OF	Contraction of the	Installation deflector barrier at G135
ier G3 Utilities	, Services & Roadworks				52131034	
H3040115	LCR (G3): Hoarding for 600mme Diversion	100		15/08/02A	24/00/02A	Commentation
CH3040130	G3: Excavate & Divert U/G Drainage (600mmp)		1	27/09/02A	25/10/02	Exception and Comparison of the Company of Company (Stream of Company)
COLUMN THE PROPERTY OF THE PRO	OF HING WAHLSTREET W. E.B. HWW EBJ		1310			
WIVE'S TTA		HIGHIN	IING			
H8400170	Prepare TTA Drg (for gully pipe)	0		21/10/02	03/12/02	Descent of the second s
CHB400180	Endorse TTA Drgs by the Eng.	0		04/12/02	10/12/02	BIBUILE ndorse TTA Drgs by the Eng.
CH8400190	Apply traffic advice/gazette notice from TD	0		11/12/02	24/12/02	apply traffic advice/gazette notice from TDBIBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB
CH8400200	Meeting with RMO	0		25/12/02	27/12/02	illiMeeting with RMO
H5400210	Receive road works advice	0		28/12/02	29/12/02	Receive road works advice@
H\$400220	Preparation for commencement	0	3	30/12/02	01/01/03	Preparation for commencement
CH8400230	Implementation of TTA	0	7	28/12/02	03/01/03	Implementation of TTAilling
318400240	Prepare TTA Drg (for cross read cable)	0	43	21/10/02	02/12/02	international and a second sec
318400250	Endorse TTA Degs by the Eng.	0	7	03/12/02	09/12/02	WINDEEndorue TTA Drgs by the Eng.
H8400260	Apply traffic advice/gazette notice from TD	0	- 14	10/12/02	23/12/02	Apply traffic advice/gazette notice from TDUULINEEDIN
3HB400270	Meeting with RMO	0	3	24/12/02	26/12/02	IIIBMenting with RMC
HB400280	Receive road works advice	0	2	27/12/02	28/12/02	IIIReceive road works a
218400290	Preparation for commencement	0	3	29/12/02	31/12/02	Preparation for commencemental
218400300	Implementation of TTA	Q	- 7	27/12/02	02/01/03	amma Himiliangiementation g
WW E/B: ULI	ka; & Services Diversions		iliin		papern Hi	
H8410110	Utilities detection	0	10	21/10/02	31/10/02	distillering Usities detection
WW.ERB Wat	er Maks	1.1			·2.51	
H8430100	Installation of proposed 250C/ WM	0	-50	27/11/02	27/01/03	Installation of proposed 2500FWM(databased and databased and databas
WW C/U. Stre	To contract and international second s			SCHEIGHE	PERSONAL PROPERTY.	
H8450100	Construct street light ducting/drawpit	0	14	09/01/03	24/01/03	Construct street light ducting/drawpit/litititititititititititititititititit
NUGNMENT NWW W/B: TK/	OF HING WANT STREET VI. WIE (HAVW WIE)	SUCRES OF			IIIBAUR229148	
H8500170	Prepare TTA Drg	0	43	17/01/03*	28/02/03	
anananimizen	fles & Services Diversions	a Runin		<b>OTIVICALITY</b>		Prepare TTA Drg autour
H8510110	Utilities Detection & Trial Pits - Watermains	0	2	18/09/02A	22/10/02	
atom a second second second				Competition of	ALL ALL ALL ALL ALL ALL ALL ALL ALL ALL	B-Barnet-Barnet-Barnet Utinies Defection & Trial Pits - Watermains
H8515115	Manhole construction	0	30	27/11/02	03/01/03	illippeniniterenter - illini-filtrantole constru
H8515120	Excavation & guly pipe installation	0	40	20/12/02	11/02/03	Excitvation & gully pipe installations IIII-IIIII
H8515130	Gully pit installation	0	30	16/01/03	22/02/03	Ender State
WW W09: HV	Power Supply Cive Provision	hailtai		CHILISTING IN		Guly pt installation (illight)
H8520140	4x11kV cable installation	0	35	27/11/02	09/01/03	4x11kV cable installation illustration and a second
H8520150	4xt.V cable installation	0	35	27/11/02	09/01/03	4xLV cable installation fileneturinentiation and a second
WW W/B Wz	ter Mans			BILL PRACE		
H8530160	Installation of proposed 3000t	10	16	27/09/02A	26/11/02	
H8530162	Installation of proposed 400DI	10	16	27/09/02A	26/11/02	And the second s
H8530164	Installation of proposed 450DI	10	16	27/09/02A	26/11/02	- Automation of proposed 45001
millionistical	Pressure & sample test	0	5	27/11/02	02/12/02	uning Billing Pressure & sample test
10530170	Connection to existing	0	4	03/12/02	06/12/02	
<u> </u>		ERIALIE:		THE REAL	HIT MONT	Will Connection to existing
49530180	Muss				Concernance of the local division of the	
H8530180 MW W/B, Gos	Maters Laying 315PE gas main - NB30 to NB31	40	14	26/09/02A	05/11/02	The second second international second 2000 and main Alight and and
H8530180 WW W/B. Gor H8535190	Contraction of the second se	40		26/09/02A 26/09/02A	05/11/02	How we wanted the state of the
H8530180 WW W B. Gos H8535190 H8535192	Laying 315PE gas main - NB30 to NB31		14			and examine to an unit with an unit of the streng with the strength of the str
H8535190 H8535192 H8535200	Laying 315PE gas main - NB30 to NB31 Laying 400 Steel Gas Main	40	14	26/09/02A	05/11/02	

Activity ID HWW W/B: She	Activity Description	Comp	Orig Dur	Early Start	Early Finish	A SEP OCT NOV DEC JAN 2 9 16 23 30 7 14 21 23 4 11 18 25 2 9 16 23 39 6 13 20
CH8550260	Construct street light ducting/drawpit	0	14 14	20/12/02	06/01/03	Construct street light ducting/thavpitilite-time-time
CHHIGH110	Relocation of switch room LW/2	0		07/11/02	11/12/02	The same of the same of the same of the same of the same of the same of the same of the same of the same of the
HHIGH120	Remove KHM-330 at Lai Po Rd Slip 2	0	-	18/11/02	11/12/02	unautomatical and a second sec
and the second se	nd Signs, Markings & Bollards	<b>AND AND AND AND AND AND AND AND AND AND </b>	<b>HIHB</b>	<b>BRINGHAM</b>	RECEIPTION	International Remove KHM-330 at Lai Po Rd S
H8565350	Sign board foundation construction	Ū	30	20/12/02	27/01/03	Sign board foundation construction@illig-dimensionan
EALIGNMENT	OF HUSE WAR SLIPT (HVS1)	Hitter	<u>innn</u>	ALL STREET	<b>AND STREET</b>	
WSI. TAS			anna a			
:H8700100	Prepare TTA Drg	0	43	17/05/03*	28/02/03	Prepare TTA Organiza
**********************	OF HIMG WARE SLIP? (HWS2)		a series and a series of the s			
WS2 TTA's	Endorse TTA Drgs by the Eng.			31/08/02A	20/10/02	ACCUSTOR TO THE THE TRANSPORTED BALL AND A DESCRIPTION OF A br>A DESCRIPTION OF A
18800102	Apply traffic advice/gazette notice from TD	0		21/10/02	27/10/02	Endorse TTA Drgs by the Eng.
H8800102		0		28/10/02	30/10/02	minimize the second sec
	Meeting with FMO					LIB Moeting with FRMO
H8800104	Receive road works advice	. 0		31/10/02	01/11/02	BiRaceive road works advice
48800105	Preparation for commoncement	. 0		02/11/02	04/11/02	IIIIP reparation for commencement
H8800106	Implementation of TTA	.0		31/10/02	06/11/02	illimititimplementation of TTA
H8800110	Prepare TTA Drg	0	43	20/12/02*	31/01/03	Prepare TTA Drgamanananananananananananananananananana
WS2 Tomport HB502100	ary food monitor foo	ACCREASE OF	di num	21/10/02	05/11/02	automatica and and
in in the backston biogeners	Temporary road construction	O CHARMEN	1	21/10/02	05/11/02	Intelligibilities Temporary road construction
WS2: Dmirage H8515100	Manhole construction	0	10000	08/01/03	14/02/03	And the second se
	Manx	RIMAN	ANNIN N		BINEIDIALIDIAN	Manhole construction@immunution
H8530100	installation of proposed 15004	0	5	07/11/02	07/01/03	Installation of proposed 15000 and the second state of the second
H8530110	Pressure & sample test	1		08/01/03	23/01/03	Pressure & sample lest
againtern rabonal surrow		<b>NUMBER</b>	<b>ANNE</b>		designation -	Pressure & sample testimitimiti
H8540140	Construct street light ducting/drawpit	0	1 14	08/01/03	23/01/03	Construct street light ducting/dcavpit/initiation
ALIGNED SU	P 3 (53)	AURA		<b>HERE AND AND A</b>		
105						
HHIGH130	LCR (G2): Remove KHM-331 at Hing Wah Stip 3	0	21	14/11/02	07/12/02	LCR (G2): Remove KHM-331 at hing Wah Sip 3000000000000000000000000000000000000
3 TTA's	en de la company de la company de la company de la company de la company de la company de la company de la comp	() HII I I I I I I I I I I I I I I I I I	(1888)	killillin etteri	<b>AGANHANNISTEE</b>	
H8900100	SLIP 3: Prepare TTA Drg	100		18/09/02A	26/09/02A	SUP 3: Prepare TTA Drg
H8900110	Endorse TTA Drgs by the Eng.	100	7	20/09/02A	26/09/02A	Endorse TTA Drgs by the Eng.
H8900120	Apply traffic advice/gazette notice from TD	0	14	27/09/02A	03/11/02	And the second s
H8900130	Meeting with FMO	0	3	04/11/02	06/11/02	IIII Meeting with RMO
	which have been and the second state of the	0	1 7	07/11/02	08/11/02	
	Receive road works advice	· ·	1 1	and a second	00.1120	liliReceive road works advice
H8900140	Preparation for commencement	0		09/11/02	11/11/02	IIIPreparation for commencement
H8900140 H8900150			3			IIIPreparation for commandament
CH8900140 CH8900150 CH8900160 33 FW Power 5 CH6920100 TAGE VA FREA CRITTA Phase	Preparation for commencement Implementation of TTA. Social Church Provision AxLV cable installation I ROWENT for Link Cale LUNC ROAD (LCR) 33. 2nd Fast Lans Chaure	000000000000000000000000000000000000000	) 3 ) 7 ) 60	09/11/02	11/11/02 13/11/02 25/01/03	IIIPreparation for commencement
CH8900140 CH8900150 CH8900160 SI I-W Power 5 CH6920100 TACC 14 Pt CA CRITTA Pt Case CH3007118	Preparation for commencement implementation of TTA socialy Chu Provietion 4xLV cable installation LICONNEXT OF LIN CHELING, ROAD (LCR)	000000000000000000000000000000000000000	) 3 ) 7 ) 60	09/11/02	11/11/02 13/11/02	IIIPreparation for commencement           IIIIPreparation for commencement           IIIIPreparation of TTA           4x         V cable installation
CH8900140 CH8900150 CH8900150 CH8900160 CH FW Foxed 5 CH8920100 CH CTA FU CH CH TTA FU CH CH TTA FU CH CH TTA FU CH CH TTA FU CH	Preparation for commencement Implementation of TTA scripty Chill Proviation 44LV cable installation 44LV cable installation 432 Pril Table Checkwa LCR TTA Ph3: Duration of Phase 3 TTA	000000000000000000000000000000000000000	) 3 ) 7 ) 60	09/11/02	11/11/02 13/11/02 25/01/03	EIIIPreparation for commencement EIIIIIIIImplementation of TTA
H8900140 H8900150 H8900150 H8920150 H8820100 H8820100 H8820100 H8820100 H8820100 H8820100 H8820100 H8820100 H8900118 CR TTA Fhase H3006100	Preparation for commencement Implementation of TTA. Society Chui Powakas AxLV cable installation I DAMENT TACTUR Call ELINC ROAD (UCR) 3 201 Fact Lare Classre LCR TTA Ph3: Duration of Phase 3 TTA 14 Store Larer Closure at H95:	000000000000000000000000000000000000000	) 3 ) 7 ) 60 ) 60 ) 143°	09/11/02 07/11/02 14/11/02 17/09/02A	11/11/02 13/11/02 25/01/03 12/03/03	IIIPreparation for commencement           IIIIPreparation           IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
H8900140 H8900150 H8900150 S INV Power 5 H8920100 ADD 14 INV A GR TTA Prose H3007118 GR TTA Prose H3008100 H3008102	Preparation for commencement Implementation of TTA. Society Churpowskie Ad.V cable installation I DAMENT SCI IN CARENNE 2 2nd Fast Lares Charve LCR TTA Ph3: Duration of Phase 3 TTA e 4 Store Laren Opsium of Phase 3 TTA e 4 Store Laren Opsium of Phase LCR TTA Ph4: TMLG Considers Proposals	0 0 0 21 100	) 3 ) 7 ) 60   143*   7 ) 7	09/11/02 07/11/02 14/11/02 14/11/02	11/11/02 13/11/02 25/01/03 12/03/03	IIIPreparation for commencement     IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
H8900140 H8900150 H8900150 S HV Power 5 H8920100 H952 14 Power 5 H9620100 H952 14 Power 5 H9507118 CR TTA Phase	Preparation for commencement Implementation of TTA. Society Chui Provision Act.V cable installation I DOWENT SCI M Cale LUNC ROAD (UCR) 3 2nd Fact Laree Classon LCR TTA Ph3: Duration of Phase 3 TTA 4 Store Laree Classon LCR TTA Ph4: TMLG Considers Proposals LCR TTA Ph4: TMLG Meesing No.5	0 0 0 21 100 100	) 3 ) 7 ) 60   143" ) 7 ) 7 ) 7 ) 0 ) 3	05/11/02 07/11/02 14/11/02 17/09/02A 20/09/02A 25/09/02A	11/11/02 13/11/02 25/01/03 12/03/03 25/09/02A	IIIPreparation for commencement     IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
H9900140 H9900150 H9900150 S. HV Power 5 H9920100 A02 14 1992 H3007118 CR TTA Plass H3007118 CR TTA Plass H3008100 H3008102 H3008106	Preparation for commencement Implementation of TTA. Society Chui Provision Ad.V cable installation Instruction Charles (CAD (UCR)) 3 2nd Fast Lares Charlos UCR TTA Ph3: Duration of Phase 3 TTA 4 Store Lares Charlos UCR TTA Ph3: Duration of Phase 3 TTA 4 Store Lares Charlos UCR TTA Ph4: TMLG Considers Proposals UCR TTA Ph4: TMLG Meeting No.5 UCR TTA Ph4: Meeting with RMO	0 0 0 21 100 100 0	) 3 ) 7 ) 60 ) 60 ) 143" ) 7 ) 7 ) 0 ) 3 ) 7	06/11/02 07/11/02 14/11/02 17/09/02A 20/09/02A 20/09/02A	11/11/02 13/11/02 25/01/03 12/03/03 25/09/02A 23/10/02	IlliPreparation for commencement     Illimitinglementation of TTA     Ax     V cable installationillimitinglementation     Ax     V cable     Ax     V
H900140 H900150 H900150 S. I.W. Power 5 H9620100 ACC 144 1924 CR TTA 21 356 H3007118 CR TTA 21 356 H3005100 H3005102 H3005106 H3005108	Preparation for commencement Implementation of TTA. Society Chui Provision Ad.V cable installation Instruction Charles (CAD (UCR)) 3 2nd Fast Lane Charlow LCR TTA Ph3: Duration of Phase 3 TTA at Store Lane Charlow LCR TTA Ph3: Duration of Phase 3 TTA at Store Lane Charlow LCR TTA Ph4: TMLG Considers Proposals LCR TTA Ph4: TMLG Meeting No.5 LCR TTA Ph4: Meeting with RMO LCR TTA Ph4: Receive road works advice	00 00 21 100 100 00 00	) 3 ) 7 ) 60 ) 143* ) 7 ) 7 ) 7 ) 3 ) 7 ) 3 ) 7 ) 3 ) 7 ) 3 ) 7 ) 7 ) 3 ) 7	09/11/02 07/11/02 14/11/02 17/09/02A 20/09/02A 25/09/02A 27/09/02A 24/10/02 31/10/02	11/11/02 13/11/02 25/01/03 12/03/03 25/09/02A 23/10/02 30/10/02	IIIPreparation for commencement     IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
H8000140 H8000150 H8000150 S IW Power 5 H8020100 WOL 14 F814 H3007118 CR TTA PLass H3005100 H3005102 H3005104 H3005108 H3005108 H3005108	Preparation for commencement Implementation of TTA. Society Chui Provision Ad.V cable installation Instruction Charles (CAD COCR) 3 2nd Fast Lares Clarkow LCR TTA Ph3: Duration of Phase 3 TTA at Store Cockin of Phase 4 CR TTA Ph4: Preparation for TTA Phase 4	00 00 21 100 100 00 00 00	) 3 ) 7 ) 60   143" ) 7 ) 0 ) 7 ) 0 ) 3 ) 7 ) 0 ) 3 ) 7 ) 0 ) 0 ) 2	09/11/02 07/11/02 14/11/02 17/09/02A 20/09/02A 20/09/02A 27/09/02A 24/10/02 31/10/02	11/11/02 13/11/02 25/01/03 12/03/03 25/03/02A 25/03/02A 23/10/02 30/10/02 08/11/02	IIIPreparation for commencement     IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
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H8000140 H8000150 H8000150 H8000150 H8000150 H8000160 H3007118 H3007118 H3007118 H3008100 H3008100 H3008100 H3008100 H3008110 H3008110 H3008110 H3008110 H3009100 H30090	Preparation for commencement implementation of TTA Solv Chui Provision (AUV cable installation COMPENT SET IN Call EURC PROAD (UCR) 3 2nd Field Laren Classon LCR TTA Ph3: Duration of Phase 3 TTA 4 Store Laren Classon LCR TTA Ph3: Duration of Phase 3 TTA 4 Store Laren Classon LCR TTA Ph4: TMLG Considers Proposals LCR TTA Ph4: Meeting with PMO LCR TTA Ph4: Meeting with PMO LCR TTA Ph4: Receive road works advice LCR TTA Ph4: Receive road works advice LCR TTA Ph4: Receive road works advice LCR TTA Ph4: Implementation of TTA LCR TTA Ph4: Implementation of TTA LCR TTA Ph4: Duration of Phase 4 TTA CR TTA Ph4: Duration of Phase 4 TTA CR TTA Ph4: Duration of Phase 4 TTA CR TTA Ph5: TMGL Considers Proposals LCR TTA Ph5: Preparation for TTA Phase 5 Semons & Roadworks LCR (G2): Excavation for Retaining Wall Footing LCR (G2): Excavation for Retaining Wall Footing LCR (G2): Concreting LCR (G2): Concreting LCR (G2): Formwork for footing LCR (G2): Formwork for retaining Wall LCR (G2): Premove formwork & Waterproof LCR (G2): Retor Retaining Wall LCR (G2): Retore formwork & Waterproof LCR (G2): Backfill LCR (G2): Instal deflector barrier . Services & Roadworks LCR (99N): Remove Existing Paving & Barrier Mall LCR (G2): Instal deflector barrier . Services & Roadworks LCR (99N): Remove Existing Paving & Barrier Mall Pooting LCR (SB42): Excavate Retaining Wall Footing LCR (SB42): Excavate Retaining Wall Footing	0 0 0 1000 1000 0 0 0 0 0 0 0 0 0 0 0 0	3         3           7         7           145°         7           3         7           3         7           0         3           7         0           0         3           7         0           0         56°           7         0           0         56°           7         0           0         3           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         2           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1<	05/11/02           07/11/02           07/11/02           07/11/02           17/09/02A           20/09/02A           20/09/02A           20/09/02A           24/10/02           31/10/02           11/11/02           20/09/02A           24/10/02           11/11/02           20/09/02A           20/09/02	11/11/02 13/11/02 25/01/03 12/03/03 12/03/03 25/09/02A 23/10/02 00/11/02 11/11/02 11/11/02 11/11/02 11/11/02 11/11/02 11/11/02 11/11/02 11/11/02 11/11/02 11/11/02 11/11/02 11/11/02 11/11/02 13/01/03 08/01/03 08/01/03 08/01/03 08/01/03 08/01/03 13/01	III Proposation for commenciament     IIII Proposation for commenciament     IIIIIIIIII Commenciation of TTA     Ax Y cable installation(IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
H8000140 H8000150 H8000150 H8000150 H8000150 H8000160 H3007118 H3007118 H3007118 H3008100 H3008100 H3008100 H3008100 H3008110 H3008110 H3008110 H3008110 H3009100 H30090	Preparation for commencement implementation of TTA Solv Chui Provision AUV cable installation COMPENT SET IN Call EURC PROAD (UCR): 3 2nd Fiel Laren Clearow LCR TTA Ph3: Duration of Phase 3 TTA 4 Store Laren Clearow LCR TTA Ph3: Duration of Phase 3 TTA 4 Store Laren Clearow LCR TTA Ph4: TMLG Considers Proposals LCR TTA Ph4: Meeting with PMO LCR TTA Ph4: Meeting with PMO LCR TTA Ph4: Receive road works advice LCR TTA Ph4: Preparation for TTA Phase 4 LCR TTA Ph4: Implementation of TTA LCR TTA Ph4: Implementation of TTA LCR TTA Ph4: Duration of Phase 4 TTA 1 CR TTA Ph5: TMGL Considers Proposals LCR TTA Ph5: Receive road works advice LCR TTA Ph5: Preparation for TTA Phase 5 Semons & Roatsonto LCR (G2): Excavation for Retaining Wall Footing LCR (G2): Excavation for Retaining Wall Footing LCR (G2): Concreting LCR (G2): Concreting LCR (G2): Formwork for footing LCR (G2): Formwork for retaining wall LCR (G2): Formwork for retaining wall LCR (G2): Formwork for retaining wall LCR (G2): Final Fixing for Retaining Wall LCR (G2): Retore formwork & Waterproof LCR (G2): Retore formwork & Waterproof LCR (G2): Backfill LCR (G2): Instal deflector barrier Segment & Roatworks LCR (SB42): Excavate Retaining Wall Footing LCR (SB42): Laying blinding concrete	0 0 0 1000 1000 0 0 0 0 0 0 0 0 0 0 0 0	3         3           7         7           145°         7           3         7           3         7           0         3           7         0           0         3           7         0           0         56°           7         0           0         56°           7         0           0         3           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         2           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1           0         1<	05/11/02           07/11/02           07/11/02           17/06/02A           20/06/02A           20/06/02A           20/06/02A           20/06/02A           21/10/02           11/11/02           21/10/02           11/11/02           20/06/02A           21/10/02           11/11/02           20/06/02A           21/10/02           11/11/02           20/06/02A           20/07/03           06/07/03           06/07/03           06/07/03           06/07/03           10/07/03           10/07/03	11/11/02 13/11/02 25/01/03 12/03/03 12/03/03 25/09/02A 25/09/02A 23/10/02 06/11/02 17/01/03 17/01/03 17/01/03 03/01/03 04/01/03 06/01/03 06/01/03 06/01/03 06/01/03 13/01/03 13/01/03 14/01/03 15/0	III Proposation for commenciament     IIII Proposation for commenciament     IIIIIIIIII Commenciation of TTA     Ax Y cable installation(IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII

Activity ID	Activity Description	% Comp	Orig Dur	Early	5811 F	Early Finish	Al SEP   OCT NOV   DEC 2003 2 9 16 23 30 7 14 21 28 4 11 18 25 2 9 16 23 39 6 13 29 3
CH6999150	LCR (NB42): Rober for footing	0	1	28/12/02	2 2	8/12/02	LCR (NB42): Rebar for footing
CH6999160	LCR (NB42): Formwork for facting	0	: 1	30/12/02	8 3	0/12/02	LCR (NB42): Formwork for fooling
CH6999170	LCR (NB42): Concreting	0	1	31/12/02	2 3	1/12/02	ILCR (NB42): Concreti
CH6999180	LCR (NB42): Formwork for relaining wall	0	1	02/01/03	3 0	2/01/03	LCR (NB42): Formwork for retaining wall
CH6999190	LCR (NB42): Reinforcement for retaining wall	0	- 1	03/01/03	3 0	3/01/03	LCR (NB42) Reinforcement for retaining wall
CH6999200	LCR (NB42): final fixing for retaining wall	٥	2	04/01/03	3 0	6/01/03	LCR (NB42): final fixing for retaining water
CH6999210	LCR (NB42). Concreting	0	1	07/01/03	3 0	7/01/03	LCR (NB42): Concreting
CH6999220	LCR (NB42): Strike Formwork & Waterproof	0	2	08/01/03	3 0	9/01/03	LCR (NB42): Strike Formwork & Waterproof
CH6999230	LCR (NB42): Backfill	- 0	1	10/01/03	3 1	0/01/03	LCR (N842): Backfill
CH6999240	LCR (NB42): Installation deflector barrier	.0	1	11/01/03	5. 1	1/01/03	LCR (NB42): Installation deflector banker
CH6999250	LCR (NB42): Road Reinstatment for Lane Opening	. 0	7	15/01/03	3 2	2/01/03	LCR (NB42): Road Reinstatiment for Lane Opening
LCR: Street Lit	rong	<b>SALIHA</b>	制作的		hui	<b>ENDÉRICE</b>	CONTRACT NOW PRETAINING OF CARE OPENING
CHHIGH151	LCR: Design Temporary Lighting to Replace	0	14	21/10/02	2 0	3/11/02	Minimum CR: Design Temporary Lighting to Replace KHM322
CHHIGH152	LCR: Lighting Div. Submission to Replace IO1M322	0	- 60	04/11/02	2 0	2/01/03	LCR: Lighting Div. Submission to Replace KHM322
CHHIGH153	LCR SL: Install Temp. Lighting to Replace KI-IM322	0	5	03/01/03	3. 0	6/01/03	LCR SL: install Temp. Lighting to Replace KHM3221
CHHIGH190	LCR Slow Lane: Remove KHM-322 at Pile Cap HBS	0	5	09/01/03	1 1	4/01/03	LCR Slow Lane: Remove KHM-322 at Pile Cap H9SUIIII
CHHIGH193	LCR Slow Lane Verge: Reinstate Street Lighting	0	3	15/01/03	1	7/01/03	LCR Slow Lane Verge: Reinstate Street Lightingilli

## Appendix D1

Active/Limit Levels for Air Quality

### Appendix D1: Action /Limit Levels for Air Quality

# LocationAction Level ( $\mu$ g/m³)Limit Level ( $\mu$ g/m³)ASR1163260ASR2178260

### ACTION AND LIMIT LEVELS FOR 24-HOUR TSP

### ACTION AND LIMIT LEVELS FOR 1-HOUR TSP

Location	Action Level ( $\mu g/m^3$ )	Limit Level (µg/m <sup>3</sup> )
ASR1	318	500
ASR2	324	500

# Appendix D2

Active/Limit Levels for Noise

### Appendix D2: Action/Limit Levels for Noise

Time Period	Action	Limit
0700-1900 hrs on normal weekdays	When one documented complaint is received	75dB(A)*
0700-2300 hrs on holidays; and 1900-2300 hrs on all other days	When one documented complaint is received	70 dB(A)
2300-0700 hrs of next day	When one documented complaint is received	55 dB(A)

Action and Limit Levels for Construction Noise

### Appendix E

Environmental Monitoring Schedule from 29<sup>th</sup> September 2002 and 28<sup>th</sup> October 2002

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
29-Sep	30-Sep	1-Oct	2-Oct	3-Oct	4-Oct	5-Oct
	24hrs-TSP		1hr-TSP Noise			24hrs-TSP
6-Oct	7-Oct	8-Oct	9-Oct	10-Oct	11-Oct	12-Oct
	1hr-TSP Noise		Noice		24hrs-TSP	1hr-TSP
13-Oct	14-Oct	15-Oct	Noise <sub>Evening</sub> 16-Oct	17-Oct	18-Oct	19-Oct
					1hr-TSP	
					Noise Noise <sub>Evening</sub>	
20-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct
			24hrs-TSP	1hr-TSP		
				Noise		
27-Oct	28-Oct					

#### Environmental Monitoring Schedule between 29-September and 28-October 2002

1hr-TSP 3 x 1 hour TSP monitoring at ASR1 and ASR2 during 09:00~18:00.

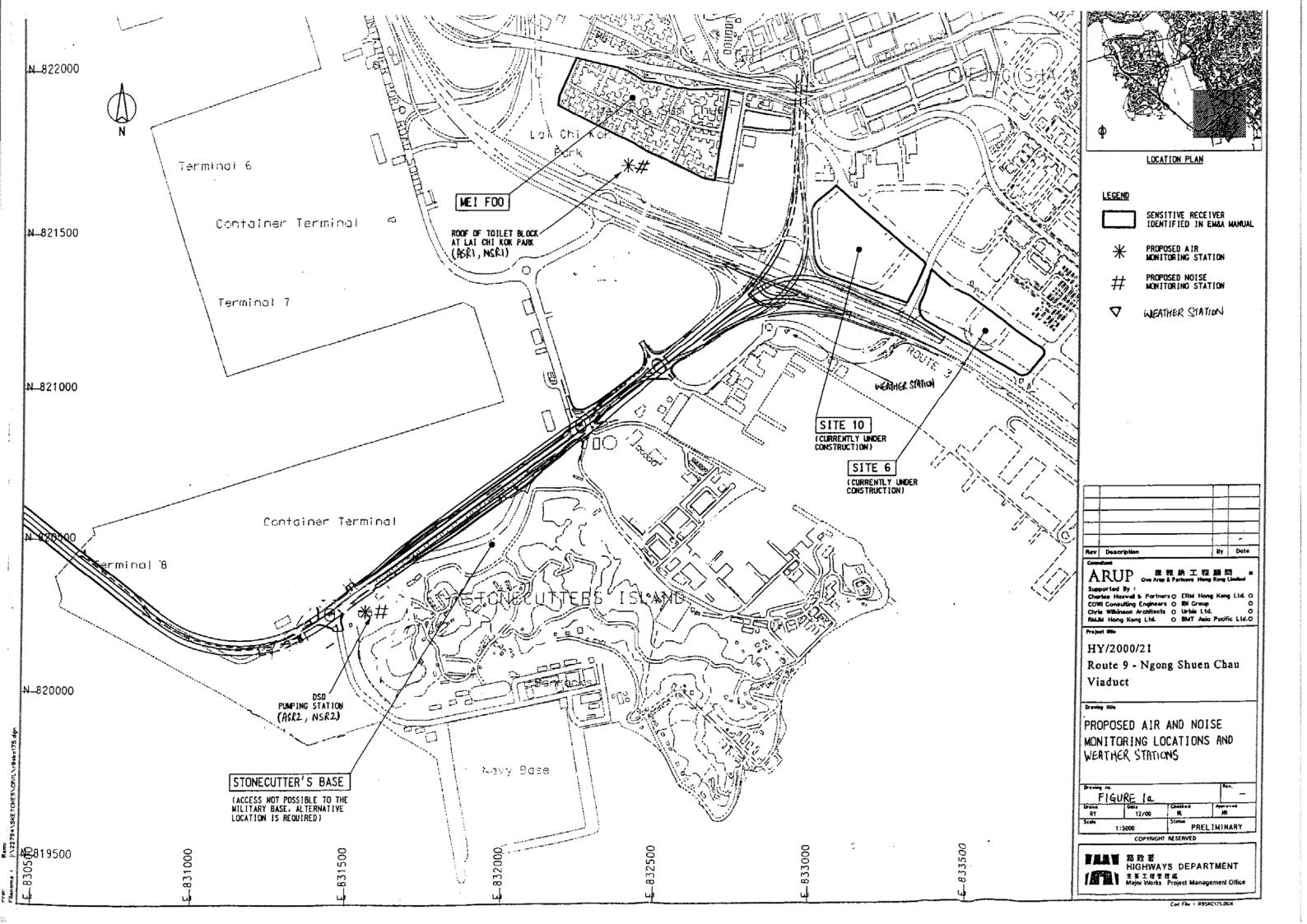
24hrs-TSP 24 hours TSP monitoring at ASR1 and ASR2

Noise Leq<sub>30</sub> measurement at NSR1 and NSR2 during 07:00~19:00.

Noise<sub>Evening</sub> 6 x Leq<sub>5</sub> measurement at NSR1 and NSR2 during 19:00~23:00.

# Appendix F

**Locations Monitoring Stations** 



# Appendix G1

**Calibration Certificates for HVS** 

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### TSP - Total Suspended Particulates High Volume Sampler In-situ Calibration Report

Calibration Date	28-Sep-02	Next Calibration Date	28-Nov-02
Station	ASR1	Equipment no.	E.HVS.01
		Ambient Condition	
Temperature, Ta (K)	301.4	Pressure, Pa (mmHg)	759.1

	Orifice Transf	er Standard Information				
Equipment no.	E.CAL.01					
Slope, mo	1.5507	Intercept, co	-0.00514			
Last Calibration Date	07-May-02	Next Calibration Date	07-May-03			
mo x Q <sub>std</sub> + co = [∆O x (Pa/760) x (298/Ta)] <sup>1/2</sup>						
Q <sub>std</sub> = {[∆O x (Pa/760) x (298/Ta)] <sup>1/2</sup> - co} / mo						

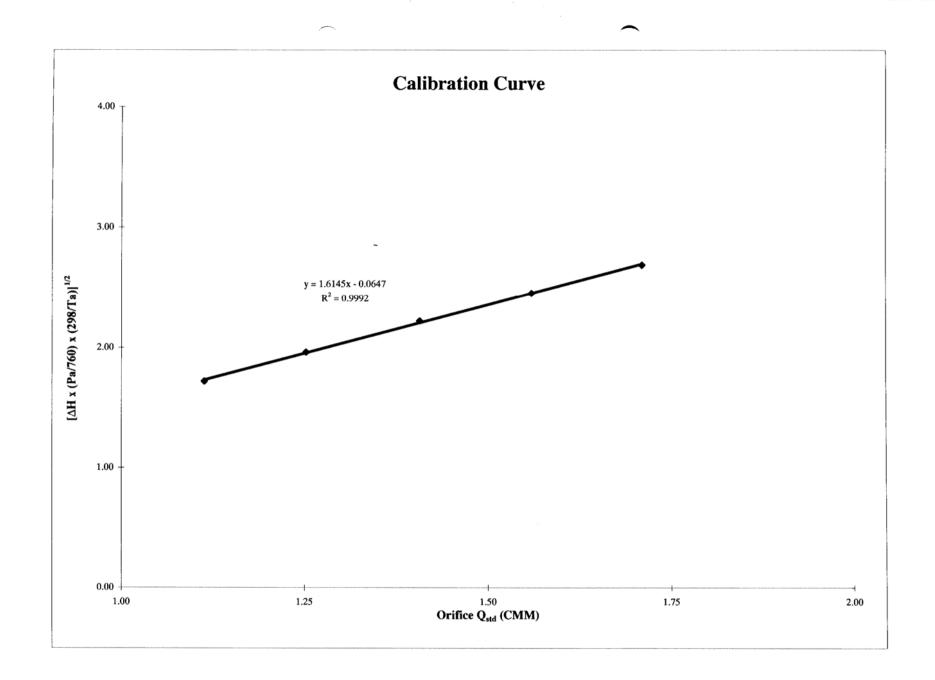
Calibration Point	Orifice Manometer Reading, ∆O (inch)	Orifice Q <sub>std</sub> (CMM) x-axis	HVS Manometer Reading, ΔH (inch)	[ΔH x (Pa/760) x (298/Ta)] <sup>1/2</sup> y-axis
1	7.1	1.71	7.3	2.69
2	5.9	1.56	6.1	2.45
3	4.8	1.41	5.0	2.22
4	3.8	1.25	3.9	1.96
5	3.0	1.11	3.0	1.72

By Liner Regression of y on x			
Slope, mh =	1.6145	Intercept, ch =	-0.0647
*Correction Coefficient, R =	0.9996		
Calibration Result:	ACCEPT		

\* If the Correlation Coefficient, R is < 0.9900. Checking and Recalibration are require.

Remark:

Date:	30-	9-2002
Date:	30-	9-2002



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### TSP - Total Suspended Particulates High Volume Sampler In-situ Calibration Report

Calibration Date	28-Sep-02	Next Calibration Date	28-Nov-02
Station	ASR2	Equipment no.	E.HVS.02

		Ambient Condition	
Temperature, Ta (K)	301.6	Pressure, Pa (mmHg)	759.2

	Orifice Transfe	r Standard Information	
Equipment no.	E.CAL.01		
Slope, mo	1.5507	Intercept, co	-0.00514
Last Calibration Date	07-May-02	Next Calibration Date	07-May-03
		∆O x (Pa/760) x (298/Ta)] <sup>1/2</sup>	
	Q <sub>std</sub> = {[∆O x (Pa/	760) x (298/Ta)] <sup>1/2</sup> - co} / mo	

Calibration Point	Orifice Manometer Reading, ∆O (inch)	Orlfice Q <sub>std</sub> (CMM) x-axis	HVS Manometer Beading, ΔH (inch)	[ΔH x (Pa/760) x (298/Ta)] <sup>1/2</sup> y-axis
1	7.3	1.73	7.1	2.65
2	6.3	1.61	6.1	2.45
3	5.1	1.45	5.0	2.22
4	4.1	1.30	4.1	2.01
5	3.2	1.15	3.1	1.75

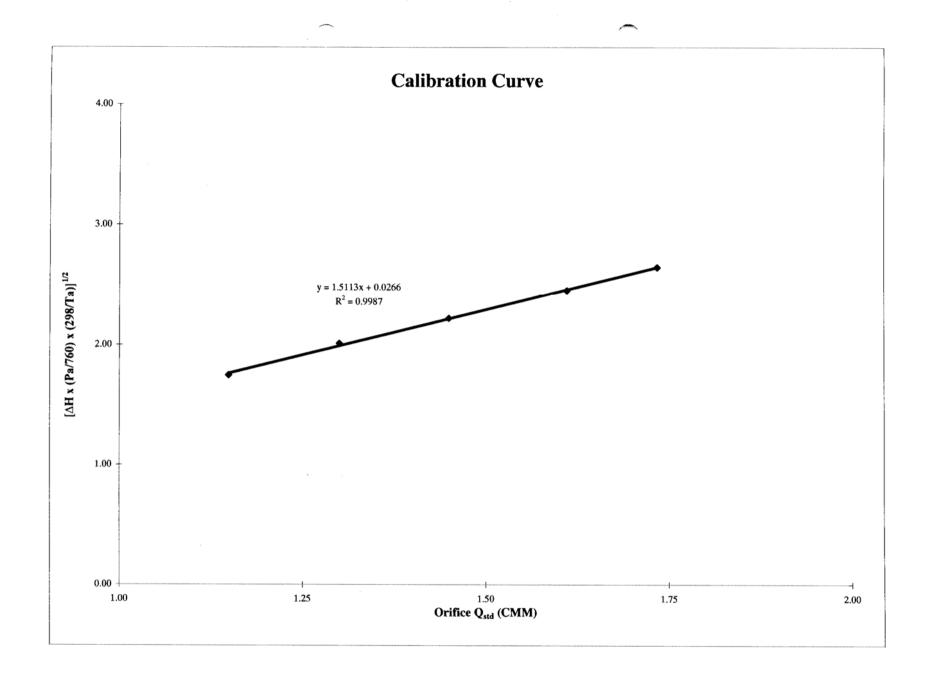
By Liner Regression of y on x			
Slope, mh =	1.5113	Intercept, ch =	0.0266
*Correction Coefficient, R =	0.9993	-	

Calibration Result: ACCEPT

\* If the Correlation Coefficient, R is < 0.9900. Checking and Recalibration are require.

Remark:

Date:	30-9-20	50
Date:	30-9-0	1002

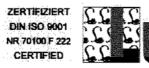


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Appendix G2

**Calibration Certificates for the Weather Station** 

Werkszeugnis nach DIN EN 10204/2.2 Test report according to DIN EN 10204/2.2



Geräte-Typ Model type Type d'instrument	8352.00
Modell Model Modèle	Wind sensor for speed and direction
Anzahl number nombre	1
Genauigkeit Accuracy Précision	Speed: ± 0, 5 m/s or 3% Direction ± 5°

Hiermit bescheinigen wir, daß dieses LUFFT-Erzeugnis in Übereinstimmung mit dem QM-Handbuch der LUFFT Mess-und Regeltechnik GmbH nach DIN EN ISO 9001 gefertigt wurde. Die Bestellvorgaben wurden eingehalten. Die Ausführung und Anzeigegenauigkeit der Geräte / Systeme wurde im Rahmen der LUFFT-Qualitätssicherungsmaßnahmen überwacht. Die Qualitätsprüfung ergab keine Beanstandung.

This is to certify, that this Lufft product has been tested according to the TQM of the LUFFT Mess- und Regeltechnik GmbH manual in accordance with DIN EN ISO 9001. Ordering specifications are complied with. Execution of instruments / systems as well as testing of accuracy was carried out following LUFFT quality assurance procedures. Quality inspection was successfully passed.

Par ce document, nous certifions que le produit correspondant a bien été testé suivant les normes TQM de Lufft Mess- und Regeltechnik GmbH en accord avec la norme DIN EN ISO 9001. Les conditions stipulées dans la commande ont été remplies. La réalisation des appareils / systèmes ainsi que les tests de précision ont été fait en concordance avec les procédés de qualité Lufft.

Stempel Seal	Datum Date	Prüfer Checked b		ialitätsmanagement ality management
G.LU Meß-u. Regeltect Gutenbergst 70736 Fet	hnik GmbH raβe96₂0,5.02 ibac b	2	Lut	fft GmbH
P 0 S 1 f a c h LUSFT Mess and Regelte Gutenbergstraße 20 70736 Fellbach	chnik Gmbi <del>f</del> Ibach	Geschäftsführer DiplWirtschIng. Klaus Hirzel DiplIng. Axel Schmitz-Hübsch	Postbank Stuttgart Konto 857-702 BLZ 600 100 70	Deutsche Bank AG, Stuttgart S.W.I.F.T.Code: DEUT DE SS Konto 1325 794
Tel.: 0711-51822-0 Fax: 0711-51822-41 email: info@lufft.de Internet: www.lufft.de			Südwestbank AG, Stut Konto 21839 BLZ 600 602 01	tgart

Werkszeugnis nach DIN EN 10204/2.2 Test report according to DIN EN 10204/2.2





Geräte-Typ Model type Type d'instrument	8355.03
Modell Model Modèle	Air pressure sensor
Anzahl number nombre	1
Genauigkeit Accuracy Précision	± 0,2 % of final value optimal accuracy at 1010 hPa

Hiermit bescheinigen wir, daß dieses LUFFT-Erzeugnis in Übereinstimmung mit dem QM-Handbuch der LUFFT Mess-und Regeltechnik GmbH nach DIN EN ISO 9001 gefertigt wurde. Die Bestellvorgaben wurden eingehalten. Die Ausführung und Anzeigegenauigkeit der Geräte / Systeme wurde im Rahmen der LUFFT-Qualitätssicherungsmaßnahmen überwacht. Die Qualitätsprüfung ergab keine Beanstandung.

This is to certify, that this Lufft product has been tested according to the TQM of the LUFFT Mess- und Regeltechnik GmbH manual in accordance with DIN EN ISO 9001. Ordering specifications are complied with. Execution of instruments / systems as well as testing of accuracy was carried out following LUFFT quality assurance procedures. Quality inspection was successfully passed.

Par ce document, nous certifions que le produit correspondant a bien été testé suivant les normes TQM de Lufft Mess- und Regeltechnik GmbH en accord avec la norme DIN EN ISO 9001. Les conditions stipulées dans la commande ont été remplies. La réalisation des appareils / systèmes ainsi que les tests de précision ont été fait en concordance avec les procédés de qualité Lufft.

	Datum	Prüfer		itsmanagement
G.LUFF	imbH	Checked b	y quality n	nanagement
Gutenbergstraß 70736 Fellb	∋20 06-05-02		Lufft G	mbH
70736 FeliD				
Postfach 42				
LUFFT Mess- und Regentechnik G	mbH Geschäftsfü	hrer	Postbank Stuttgart	Deutsche Bank AG, Stuttgart
Gutenbergstraße 20	DiplWirtsch	hIng. Klaus Hirzel	Konto 857-702	S.W.I.F.T.Code: DEUT DE SS
70736 Fellbach	Dipl,-Ing. Ax	el Schmitz-Hübsch	BLZ 600 100 70	Konto 1325 794
Tel.: 0711-51822-0				
Fax: 0711-51822-41			Südwestbank AG, Stuttgart	
email: info@lufft.de			Konto 21839	
Internet: www.lufft.de			BLZ 600 602 01	

Werkszeugnis nach DIN EN 10204/2.2 Test report according to DIN EN 10204/2.2



Geräte-Typ Model type Type d'instrument	8160.TF
Modell Model Modèle	Temperature sensor
Anzahl number nombre	1
Genauigkeit Accuracy Précision	± 0,2 °C (-30°C+70°C)

Hiermit bescheinigen wir, daß dieses LUFFT-Erzeugnis in Übereinstimmung mit dem QM-Handbuch der LUFFT Mess-und Regeltechnik GmbH nach DIN EN ISO 9001 gefertigt wurde. Die Bestellvorgaben wurden eingehalten. Die Ausführung und Anzeigegenauigkeit der Geräte / Systeme wurde im Rahmen der LUFFT-Qualitätssicherungsmaßnahmen überwacht. Die Qualitätsprüfung ergab keine Beanstandung.

This is to certify, that this Lufft product has been tested according to the TQM of the LUFFT Mess- und Regeltechnik GmbH manual in accordance with DIN EN ISO 9001. Ordering specifications are complied with. Execution of instruments / systems as well as testing of accuracy was carried out following LUFFT quality assurance procedures. Quality inspection was successfully passed.

Par ce document, nous certifions que le produit correspondant a bien été testé suivant les normes TQM de Lufft Mess- und Regeltechnik GmbH en accord avec la norme DIN EN ISO 9001. Les conditions stipulées dans la commande ont été remplies. La réalisation des appareils / systèmes ainsi que les tests de précision ont été fait en concordance avec les procédés de qualité Lufft.

Stempel Seal	Harderst, ERIO	Prüfer Checked by		litätsmanagement ty management
75738 i acatte	GATELE 14 - # 106.05502 これ 名言う名		Luff	t GmbH
LUFFT Mess- und Regelte	chñik GmbH G	ieschäftsführer	Postbank Stuttgart	Deutsche Bank AG, Stuttgart S.W.I.F.T.Code: DEUT DE SS
Gutenbergstraße 20		iplWirtschIng. Klaus Hirzel	Konto 857-702	
70736 Fellbach	U	iplIng. Axel Schmitz-Hübsch	BLZ 600 100 70	Konto 1325 794
Tel.: 0711-51822-0 Fax: 0711-51822-41 email: info@lufft.de internet: www.lufft.de			Südwestbank AG, Stuttg Konto 21839 BLZ 600 602 01	art

### Appendix G3

Calibration Certificates for High Volume Orifice Calibrator



TISCH ENVIRONMENTAL, INC. 145 South Miami Ave. Village of Cleves, 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-5028A

Date - May 07, 2002 Rootsmeter S/N       9833620       Ta (K) -       293         Operator Tisch       Orifice I.D       0491       Pa (mm) -       751.84							
PLATE OR VDC #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)	
1 2 3 4 5	NA NA NA NA NA	NA NA NA NA	1.00 1.00 1.00 1.00 1.00	1.2640 0.9660 0.8830 0.8210 0.6200	4.2 7.0 8.4 9.7 16.7	1.50 2.50 3.00 3.50 6.00	

### DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
1.0005	0.7915	1.2285		0.9944	0.7867	0.7646
0.9967	1.0318	1.5860		0.9906	1.0255	0.9871
0.9948	1.1267	1.7374		0.9888	1.1198	1.0813
0.9931	1.2096	1.8766		0.9870	1.2022	1.1679
0.9837	1.5867	2.4570		0.9777	1.5770	1.5291
Qstd slope (m) = 1.55070			Qa slope (m) = 0.97102			
intercept (b) = -0.00514			intercept (b) = -0.00320			
coefficient (r) = 0.99978			coefficient (r) = 0.99978			
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

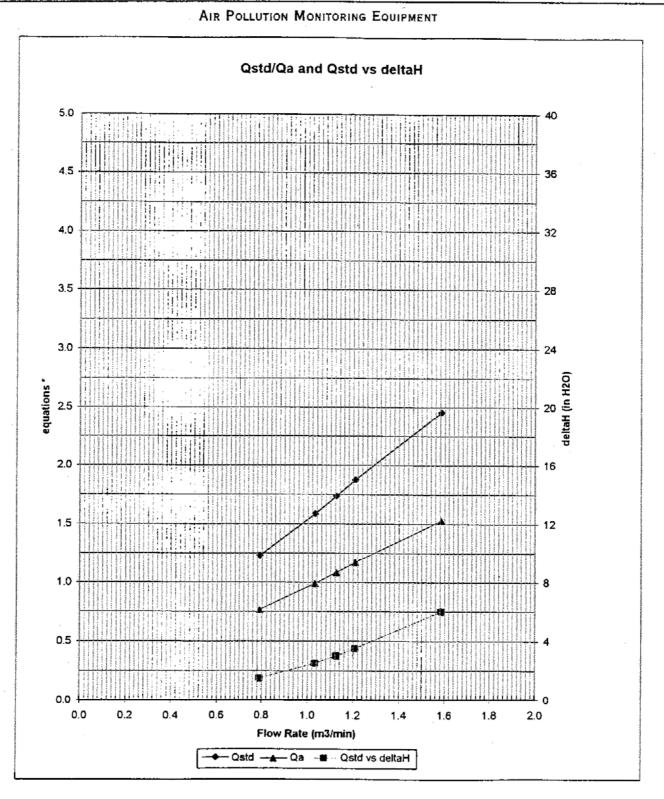
Va = Diff Vol [(Pa-Diff Hg)/Pa] Qa = Va/Time

For subsequent flow rate calculations:

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



TISCH ENVIRONMENTAL, INC. 145 South Miami Ave. Village of Cleves, OH 45002 513.467.9000 877.263.7610 toll free 513.467.9009 fax www.tisch-env.com



\* y-axis equations: Qstd series:  $\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$ Qa series:  $\sqrt{(\Delta H (Ta / Pa))}$ 

### Appendix G4

Calibration Certificates for Sound Level Meter and Calibrator

# **CERTIFICATE OF VERIFICATION**

NUMBER: 02/00379

DICESVA S.L. Calibration laboratory

Villar, 20 08041 BARCELONA SPAIN Phone number 934 335 240 / Fax 933 479 310

The calibration has been performed following calibration procedure P015 (Revision 01) for acoustic tests and P016 (Revision 01) for electrical tests, based on standards IEC60651:1979/A1:1993 and IEC60804:1985/A1:1989/A2:1993.

INSTRUMENT: MANUFACTURER: MODEL: SERIAL NUMBER: MICROPHONE: TYPE:

DATE OF CALIBRATION: DATE OF ISSUE: Integrating-averaging sound level meter CESVA SC-30 T215638 C-130, serial number 6154 1

2002-05-24 2002-05-27

CALIBRATION RESULT:

Within the specifications in the values measured

Xavier Solà Gimeno

# **CERTIFICATE OF VERIFICATION**

NUMBER: 02/00381

DICESVA S.L. Calibration laboratory

oanbration aboratory

Villar, 20 08041 BARCELONA SPAIN Phone number 934 335 240 / Fax 933 479 310

The calibration has been performed following calibration procedure P015 (Revision 01) for acoustic tests and P016 (Revision 01) for electrical tests, based on standards IEC60651:1979/A1:1993 and IEC60804:1985/A1:1989/A2:1993.

INSTRUMENT:	Integrating-averaging sound level meter
MANUFACTURER:	CESVA
MODEL:	SC-30
SERIAL NUMBER:	T215622
MICROPHONE:	C-130, serial number 6147
TYPE:	1
	•
DATE OF CALIBRATION:	2002-05-24
DATE OF ISSUE:	2002-05-27
CALIBRATION RESULT:	Within the specifications in the values measured

MIN

Xavier Solà Gimeno

# **CERTIFICATE OF VERIFICATION**

NUMBER: 02/00382

DICESVA S.L. Calibration laboratory

Villar, 20 08041 BARCELONA SPAIN Phone number 934 335 240 / Fax 933 479 310

The calibration has been performed following calibration procedure P017 (Revision 02), based on standard IEC942:1988.

INSTRUMENT:	Sound calibrator
MANUFACTURER:	CESVA
MODEL:	CB-5
SERIAL NUMBER:	0032450
TYPE:	1L
DATE OF CALIBRATION:	2002-05-09
DATE OF ISSUE:	2002-05-27

CALIBRATION RESULT:

Within the specifications in the values measured

Xavier Solà Gimeno

# **CERTIFICATE OF VERIFICATION**

NUMBER: 02/00380

DICESVA S.L.

Calibration laboratory

Villar, 20 08041 BARCELONA SPAIN Phone number 934 335 240 / Fax 933 479 310

The calibration has been performed following calibration procedure P017 (Revision 02), based on standard IEC942:1988.

INSTRUMENT: MANUFACTURER: MODEL: SERIAL NUMBER: TYPE:

DATE OF CALIBRATION: DATE OF ISSUE: CESVA CB-5 0032456 1L 2002-05-09 2002-05-27

Sound calibrator

CALIBRATION RESULT:

Within the specifications in the values measured

MAIN CO

Xavier Solà Gimeno

## Appendix H1

**Event/Action Plan for Air Quality** 

Event	Action								
Level	ET	ER	CONTRACTOR						
Action Level			•						
Exceedance for one sample	<ul> <li>Identify source</li> <li>Inform ER</li> <li>Repeat Measurement to confirm finding</li> <li>Increase monitoring frequency to daily</li> </ul>	<ul> <li>Notify Contractor</li> <li>Check mortaring data and Contractor's working methods</li> </ul>	<ul> <li>Rectify any unacceptable practice</li> <li>Amend working methods if appropriate</li> </ul>						
Exceedance for two or more consecutive samples	<ol> <li>Identify source</li> <li>Inform ER</li> <li>Repeat measurements to confirm findings</li> <li>Increase monitoring frequency to daily</li> <li>Discuss with ER for remedial actions required</li> <li>If exceedance continues arrange meeting with ER</li> <li>If exceedance stops, cease additional monitoring</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing</li> <li>Notify Contractor</li> <li>Check monitoring data and Contractor' s working methods</li> <li>Discuss with Environmental Team and Contractor on potential remedial actions</li> <li>Ensure remedial actions properly implemented</li> </ol>	<ol> <li>Submit proposals for remedial actions to ER within 3 working days of notification</li> <li>Implement the agreed proposals</li> <li>Amend proposal if appropriate</li> </ol>						
Limit Level Exceedance for one sample	<ol> <li>Identify source</li> <li>Inform ER and EPD</li> <li>Repeat measurement to confirm finding</li> <li>Increase monitoring frequency to daily</li> <li>Assess effectiveness of Contractor's remedial actions and keep EPD and ER informed of the results</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing</li> <li>Notify Contractor</li> <li>Check monitoring data and Contractor' s working methods</li> <li>Discuss with Environmental Team Leader and Contractor potential remedial actions</li> <li>Ensure remedial actions properly implemented</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance</li> <li>Submit proposals for remedial actions to ER within 3 working days of notification</li> <li>Implements the agreed proposals</li> <li>Amend proposal if appropriate</li> </ol>						

Appendix H1: Event/Action Plan for Air Quality

Event	Action									
Level	ET	ET ER								
Action Level			-							
Exceedance for two or more consecutive samples	<ol> <li>Identify source</li> <li>Inform ER and EPD the causes &amp; actions taken for the exceedances</li> <li>Repeat measurement to confirm findings</li> <li>Increase monitoring frequency to daily</li> <li>Investigate the causes of exceedance</li> <li>Arrange meeting with EPD and ER to discuss the remedial actions to be taken</li> <li>Assess effectiveness of Contractor's remedial actions and keep EPD and ER informed of the results &amp; if exceedance sbps, cease additional monitoring</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing</li> <li>Notify Contractor</li> <li>Carry out analysis of Contractor' s working procedures to determine possible mitigation to be implemented</li> <li>Discuss amongst Environmental TeamLeader and the Contractor potential remedial actions</li> <li>Review Contractor' s remedial actions whenever necessary to assure their effectiveness</li> <li>If exceedance continues consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated</li> </ol>	<ol> <li>Take immediate action avoid further exceedance</li> <li>Submit proposals for remedial actions to ER within 3 working days of notification</li> <li>Implements the agreed proposals</li> <li>Resubmit proposals if problem still not under control</li> <li>Stop the relevant portion of works as determined by the ER until the exceedance is abated</li> </ol>							

# Appendix H2

**Event/Action Plan for Noise** 

Event	Action						
	ET Leader	ER	Contractor				
Action Level	<ol> <li>Notify ER</li> <li>Analyse investigation</li> <li>Increase monitoring frequency to check mitigation effectiveness</li> </ol>	<ol> <li>Notify Contractor</li> <li>Require Contractor to propose measures<sup>*</sup> for the analysed noise problem</li> </ol>	<ol> <li>Submit noise mitigation proposals to Environmental Team</li> <li>Implement noise mitigation proposals*</li> </ol>				
Limit Level	<ol> <li>Notify ER</li> <li>Notify EPD</li> </ol>	<ol> <li>Notify Contractor</li> <li>Require contractor to implement mitigation measures' Increase monitoring frequency to check mitigation effectiveness</li> </ol>	<ol> <li>Implement mitigation measures</li> <li>Prove to Environmental Team Leader ER effectiveness of measures applied</li> </ol>				
*	Mitigation Measures may include:         Relocation of noise emitting plant         Use of silenced or super-silenced equipment         Use of acoustic sheds or screens         Limit quantity of plant operating         Change working technique						

Appendix H2: Event/Action Plan for Construction Noise

# Appendix I

Implementation Status of Environmental Protection Requirements

Environmental Protection Measures	Timing	Implementation Stages*			
		29/7/02 to 28/8/02	29/8/02 to 28/9/02	29/9/02 to 28/9/02	
Erection, painting and maintenance of site hoardings around works and storage areas.	Throughout the construction	√ (not all)	√ (not all)	√ (In progress)	
Restrictions on the height of material/spoil stockpiles.	period				
Prompt hydro-seeding of disturbed areas and cut/fill slopes prior to the permanent landscaping works.		N/A	N/A	N/A	
Avoidance of chunam or shotcreting slope treatments.			√ (not all)	√ (not all)	
Conservation of topsoil where practical.			√ (not all)	√ (not all)	
Site litter patrols and regular site waste collection.			?	?	
Maintenance of planting.					
Minimise damage outside works areas					
Covers for dusty stockpiles	construction	√ (not all)	√ (not all)	?	
Haul road watering, vehicle wheel wash prior to exit. Where practical, access roads should be protected with crushed gravel.	period	√ (not all)	√ (not all)	?	
All plant shall be maintained to prevent any undue air emissions.				V	
Reference should be made the EM&A Manual Action Plan for measures for consideration when Noise Limit Levels are not met.		N/A	N/A	N/A	
	Erection, painting and maintenance of site hoardings around works and storage areas.         Restrictions on the height of material/spoil stockpiles.         Prompt hydro-seeding of disturbed areas and cut/fill slopes prior to the permanent landscaping works.         Avoidance of chunam or shotcreting slope treatments.         Conservation of topsoil where practical.         Site litter patrols and regular site waste collection.         Maintenance of planting.         Minimise damage outside works areas         Covers for dusty stockpiles         Haul road watering, vehicle wheel wash prior to exit. Where practical, access roads should be protected with crushed gravel.         All plant shall be maintained to prevent any undue air emissions.         Reference should be made the EM&A Manual Action Plan for measures for	Erection, painting and maintenance of site hoardings around works and storage areas.       Throughout the construction period         Restrictions on the height of material/spoil stockpiles.       Throughout the construction period         Prompt hydro-seeding of disturbed areas and cut/fill slopes prior to the permanent landscaping works.       Avoidance of chunam or shotcreting slope treatments.         Conservation of topsoil where practical.       Site litter patrols and regular site waste collection.         Maintenance of planting.       Minimise damage outside works areas         Covers for dusty stockpiles       Throughout the construction period         Haul road watering, vehicle wheel wash prior to exit. Where practical, access roads should be protected with crushed gravel.       Throughout the construction period         All plant shall be maintained to prevent any undue air emissions.       Reference should be made the EM&A Manual Action Plan for measures for	Erection, painting and maintenance of site hoardings around works and storage areas.       Throughout the construction period       28/8/02         Restrictions on the height of material/spoil stockpiles.       Throughout the construction period       √         Prompt hydro-seeding of disturbed areas and cut/fill slopes prior to the permanent landscaping works.       N/A       N/A         Avoidance of chunam or shotcreting slope treatments.       √       √         Conservation of topsoil where practical.       √       √         Site litter patrols and regular site waste collection.       √       √         Maintenance of planting.       √       √         Minimise damage outside works areas       √       √         Covers for dusty stockpiles       √       (not all)         Haul road watering, vehicle wheel wash prior to exit. Where practical, access roads should be protected with crushed gravel.       √         All plant shall be maintained to prevent any undue air emissions.       √       N/A         Reference should be made the EM&A Manual Action Plan for measures for       N/A	Erection, painting and maintenance of site hoardings around works and storage areas.       Throughout the construction period       29/8/02       28/9/02         Restrictions on the height of material/spoil stockpiles.       Throughout the construction period       √       √         Prompt hydro-seeding of disturbed areas and cut/fill slopes prior to the permanent landscaping works.       N/A       N/A       N/A         Avoidance of chunam or shotcreting slope treatments.       √       √       √         Conservation of topsoil where practical.       √       √       √         Maintenance of planting.       √       √       √         Minimise damage outside works areas       √       √       √         Covers for dusty stockpiles       Throughout the construction period       √       √         Haul road watering, vehicle wheel wash prior to exit. Where practical, access roads should be protected with crushed gravel.       √       √         All plant shall be maintained to prevent any undue air emissions.       √       √       √         Reference should be made the EM&A Manual Action Plan for measures for       N/A       N/A       N/A	

N/A = Not Applicable  $\checkmark = Implemented$ ? = Rectified \*

	Environmental Protection Measures	Timing	Impl	Implementation Stages*			
Activities			29/7/02 to 28/8/02	29/8/02 to 28/9/02	29/9/02 to 28/9/02		
Plant maintenance	All plant shall be maintained to prevent any undue noise nuisance.	Throughout the construction					
Wheelwash	All wheel wash water shall be diverted to a sediment pit.	period	√ (Not all)	√ (Not all, in progress)	√ (Not all, in progress)		
Concrete Truck Washout	All concrete trucks shall wash out into a lined pit.		√ (Not all)	√ (Not all)	√ (Not all)		
Surface water diversion	All clean surface water shall be diverted around the site.		√ (Not all)	√ (Not all)	√ (Not all)		
Sediment control	Sediment removal facilities shall be provided and be maintained and excavated as necessary to prevent sedimentation of the channel. Perimeter channels shall be provided. Works shall be programmed for the dry season where feasible.		√ (Not all, in progress)	√ (Not all, in progress)	√ (In progress) 1 Chemical Wastewater plant has been established		
Fuel can storage	All fuel cans shall be placed within a bundled area. Any fuel spills shall be mopped up as necessary.			√ (Not all)	√ (Not all)		
Slope covers	Finished slopes and other slopes near drainage areas shall be covered prior to rains to reduce sedimentation of runoff. Slopes should be hydroseeded or shotcreted as early as possible to prevent erosion.			√ (Not all)	√ (Not all)		
Excavation works	Excavation works shall avoid sensitive areas.	Throughout the excavation work period	V		V		
Material, plant movement & fuel can refilling.	Any fuel or oil spills shall be excavated and disposed of.	Throughout the construction period					

N/A = Not Applicable  $\checkmark = Implemented$ ? = Rectified \*

	Environmental Protection Measures	Timing	Implementation Stages*			
Activities			29/7/02 to 28/8/02	29/8/02 to 28/9/02	29/9/02 to 28/9/02	
Generators	All generators shall be placed within a bundled area. Any fuel spills shall be mopped up as necessary.	Throughout the construction	√ (not all)		V	
Material containers	All empty bags and containers shall be collected for disposal.	period		V	?	
Worker generated litter and Waste	Litter receptacles shall be placed around the site. Litter shall be taken regularly to the refuse collection points. Chemical toilets (or suitable equivalent) should be provided for workers. Any canteens should have grease-traps.		V	?	?	
Neighborhood nuisance	All complaints regarding construction works shall be relayed to the Environmental Team.		$\checkmark$		V	
Legal requirements	Different types of waste should be segregated, stored, transported and disposed of in accordance with the relevant legislative requirements and guidelines			V	(in progress)	
On-site separation	On-site separation of municipal solid waste and construction/demolition wastes should be conducted as far as possible in order to minimize the amount of solid waste to be disposed to landfill.			√ (in progress)	√ (in progress)	
Temporary storage area	Separated wastes should be stored in different containers, skips, or stockpiles to enhance reuse or recycling of materials and encourage their proper disposal.			V	$\sqrt[n]{(in progress)}$	
Record of wastes	Records of quantities of wastes generated, recycled and disposed (with locations) should be properly kept.		√ (in progress)	√ (in progress)	√ (in progress)	
Trip-ticket system	To monitor the disposal of waste at landfills and control fly-tipping, a "trip- ticket" system for all solid waste transfer/disposal operations should be implemented. The system should be included as a contractual requirement, and monitored by the Environmental Team and audited by the Independent Environmental Checker.		V	V	V	

N/A = Not Applicable  $\checkmark = Implemented$ ? = Rectified \*

## Appendix J

# 1-hour and 24-hour TSP Monitoring Results

			Initial Standard Flow	Final Standard Flow	Averaged Standard	Total Standard			
Date	Sampling Time	Elapsed Time	Rate	Rate	Flow Rate	Volume	Initial Filter Weight	Final Filter Weight	TSP Concentration
		(min)	(m <sup>3</sup> /min)	(m³/min)	(m <sup>3</sup> /min)	(m <sup>3</sup> )	(g)	(g)	µg/m³
2-Oct-02	9:35	67.20	1.39	1.39	1.39	93.40	2.7514	2.7648	143.5
2-Oct-02	10:44	52.56	1.37	1.37	1.37	72.23	2.7349	2.7463	157.8
2-Oct-02	11:45	65.40	1.37	1.37	1.37	89.76	2.7498	2.7648	167.1
7-Oct-02	9:30	70.80	1.41	1.42	1.41	100.18	2.7490	2.7688	197.7
7-Oct-02	10:43	57.00	1.42	1.41	1.41	80.64	2.7470	2.7659	234.4
7-Oct-02	11:45	79.20	1.41	1.41	1.41	111.89	2.7311	2.7507	175.2
12-Oct-02	9:29	56.40	1.40	1.40	1.40	79.01	2.7404	2.7600	248.1
12-Oct-02	10:24	60.00	1.40	1.40	1.40	83.90	2.7416	2.7537	144.2
12-Oct-02	11:26	81.60	1.40	1.39	1.40	113.85	2.7487	2.7656	148.4
18-Oct-02	14:03	66.00	1.39	1.39	1.39	91.82	2.7625	2.7752	138.3
18-Oct-02	15:09	59.40	1.39	1.39	1.39	82.64	2.7481	2.7575	113.7
18-Oct-02	16:10	54.00	1.39	1.39	1.39	75.13	2.7662	2.7740	103.8
24-Oct-02	9:20	63.00	1.42	1.42	1.42	89.51	2.7534	2.7671	153.1
24-Oct-02	10:25	61.20	1.41	1.40	1.40	85.85	2.7568	2.7667	115.3
24-Oct-02	11:28	64.20	1.41	1.41	1.41	90.77	2.7380	2.7520	154.2

#### The Summary of 1-hr TSP Concentration (µg/m<sup>3</sup>) at Mei Foo Sun Chuen (ASR 1)

#### The Summary of 24-hrs TSP Concentration (µg/m<sup>3</sup>) at Mei Foo Sun Chuen (ASR1)

Date	Sampling Time	Elapsed Time (min)	Initial Standard Flow Rate (m <sup>3</sup> /min)	Final Standard Flow Rate (m <sup>3</sup> /min)	Averaged Standard Flow Rate (m <sup>3</sup> /min)	Total Standard Volume (m <sup>3</sup> )	Initial Filter Weight (g)	Final Filter Weight (g)	TSP Concentration µg/m <sup>3</sup>
30-Sep-02	0:00	1432.80	1.36	1.36	1.36	1950.08	2.7548	2.9069	78.0
5-Oct-02	0:00	1455.60	1.37	1.39	1.38	2008.16	2.7496	2.9314	90.5
11-Oct-02	0:00	1434.60	1.41	1.40	1.41	2018.81	2.7489	2.9273	88.4
17-Oct-02	0:00	1434.00	1.39	1.39	1.39	1991.35	2.7664	2.8973	65.7
23-Oct-02	0:00	1459.80	1.40	1.42	1.41	2060.77	2.7600	2.8439	40.7

			Initial Standard Flow	Final Standard Flow	Averaged Standard	Total Standard			
Date	Sampling Time	Elapsed Time	Rate	Rate	Flow Rate	Volume	Initial Filter Weight	Final Filter Weight	<b>TSP</b> Concentration
		(min)	(m <sup>3</sup> /min)	(m <sup>3</sup> /min)	(m <sup>3</sup> /min)	(m <sup>3</sup> )	(g)	(g)	μg/m <sup>3</sup>
2-Oct-02	9:09	74.40	1.41	1.41	1.41	104.86	2.7543	2.7780	226.0
2-Oct-02	10:25	58.20	1.41	1.41	1.41	81.89	2.7414	2.7544	158.7
2-Oct-02	11:25	53.40	1.41	1.40	1.41	75.04	2.7450	2.7589	185.2
7-Oct-02	9:11	70.20	1.44	1.44	1.44	100.81	2.7442	2.7708	263.9
7-Oct-02	10:23	62.40	1.45	1.45	1.45	90.52	2.7397	2.7611	236.4
7-Oct-02	11:25	54.00	1.45	1.45	1.45	78.25	2.7574	2.7749	223.6
12-Oct-02	9:09	54.60	1.44	1.44	1.44	78.46	2.7312	2.7458	186.1
12-Oct-02	10:05	54.00	1.44	1.43	1.43	77.46	2.7441	2.7539	126.5
12-Oct-02	10:58	55.80	1.43	1.41	1.42	79.40	2.7665	2.7737	90.7
18-Oct-02	10:29	47.40	1.41	1.41	1.41	66.87	2.7668	2.7773	157.0
18-Oct-02	14:36	53.40	1.44	1.44	1.44	76.94	2.7522	2.7690	218.4
18-Oct-02	15:31	60.00	1.44	1.46	1.45	86.89	2.7428	2.7590	186.4
24-Oct-02	9:09	63.00	1.46	1.44	1.45	91.35	2.7474	2.7666	210.2
24-Oct-02	10:09	62.40	1.44	1.43	1.44	89.70	2.7542	2.7737	217.4
24-Oct-02	11:14	54.00	1.43	1.43	1.43	77.44	2.7271	2.7412	182.1

#### The Summary of 1-hr TSP Concentration ( $\mu$ g/m<sup>3</sup>) at Stonecutters Base (ASR2)

#### The Summary of 24-hrs TSP Concentration (µg/m<sup>3</sup>) at Stonecutters Base (ASR2)

Date	Sampling Time	Elapsed Time (min)	Initial Standard Flow Rate (m <sup>3</sup> /min)	Final Standard Flow Rate (m <sup>3</sup> /min)	Averaged Standard Flow Rate (m <sup>3</sup> /min)	Total Standard Volume (m <sup>3</sup> )	Initial Filter Weight (g)	Final Filter Weight (g)	TSP Concentration µg/m <sup>3</sup>
30-Sep-02	0:00	1482.00	1.38	1.38	1.38	2040.78	2.7651	2.8820	57.3
5-Oct-02	0:00	1418.40	1.41	1.42	1.41	2004.89	2.7516	2.9156	81.8
11-Oct-02	0:00	1432.80	1.45	1.42	1.43	2055.91	2.7458	2.9875	117.6
17-Oct-02	0:00	1429.80	1.40	1.41	1.41	2012.15	2.7297	2.8609	65.2
23-Oct-02	0:00	1416.60	1.45	1.46	1.46	2062.09	2.7651	2.9129	71.7

### Appendix K

Graphical Presentation of 1-hour and 24-hour. TSP Monitoring Results

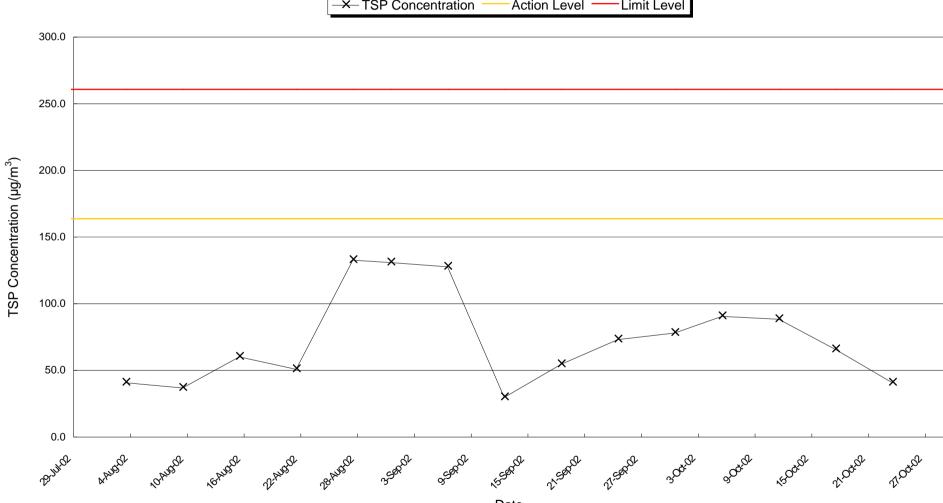
× TSP Concentration --Mean of TSP concentration at same monitoring day Limit Level Action Level 600.0 500.0 TSP Concentration  $(\mu g/m^3)$ 400.0 300.0 х х × 200.0 X X × х х \* × х X 100.0 X х х х Х х × 0.0 Bullion No Sept 4AUGO2 CANDOL VENNER SWARD SEARCH SEARCH NEAR TEARS 304 304 204 1000 TOUR TOUR

### 1 hr TSP Concentration ( $\mu$ g/m<sup>3</sup>) at Mei Foo Sun Chuen (ASR1)

× TSP Concentration --Mean of TSP concentration at same monitoring day Limit Level Action Level 600.0 500.0 TSP Concentration  $(\mu g/m^3)$ 400.0 300.0 × × X Х × ¥ X 200.0 X × Х × х × 100.0 X × 0.0 Bund 15 Septh When when the stand the second second second 21580 21580 30th 30th 30th 10th 20th

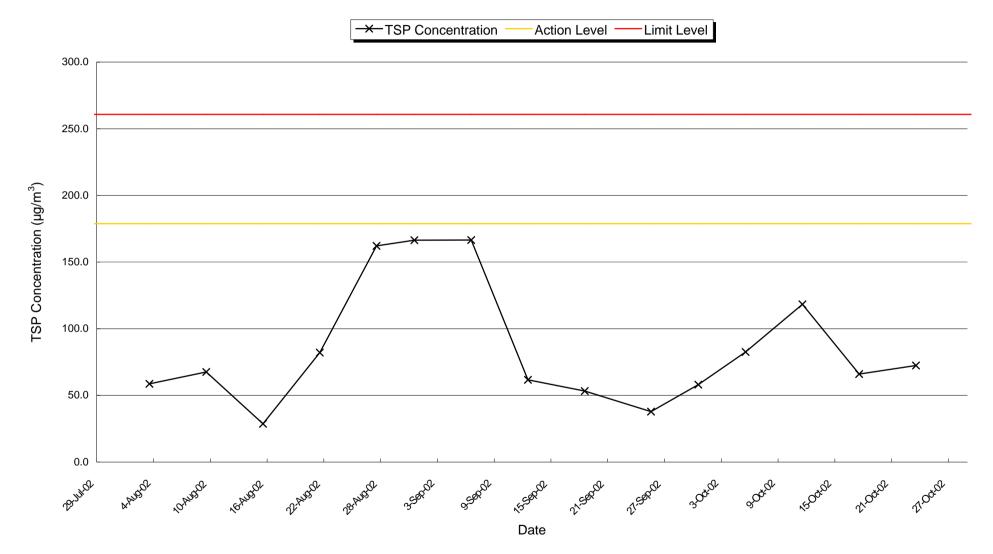
### 1 hr TSP Concentration ( $\mu$ g/m<sup>3</sup>) at Mei Foo Sun Chuen (ASR2)

### 24 hrs TSP Concentration (µg/m<sup>3</sup>) at Mei Foo Sun Chuen (ASR1)



-X-TSP Concentration Action Level Limit Level

### 24 hrs TSP Concentration (µg/m<sup>3</sup>) at Mei Foo Sun Cheun (ASR2)



## Appendix L

Wind Data Monitoring Results

### Appendix L: Wind Data Monitoring Result

		Wind Sp	beed m/s
Date	Time	Mean	Max
2-Oct-02	09:55~10:25	0.0	0.0
2-Oct-02	10:44~11:14	0.3	1.2
7-Oct-02	09:50~10:20	0.3	0.7
7-Oct-02	10:40~11:10	0.4	0.7
9-Oct-02	19:10~19:40	0.2	1.2
9-Oct-02	19:38~20:08	0.0	0.0
12-Oct-02	09:49~10:19	0.0	0.0
12-Oct-02	10:30~11:00	1.6	2.9
<sup>1</sup> 18-Oct-02	13:30~14:00	-	-
<sup>1</sup> 18-Oct-02	14:35~15:05	-	-
18-Oct-02	19:21~19:51	0.5	2.9
18-Oct-02	20:06~20:36	0.0	0.0
24-Oct-02	09:41~10:11	0.3	0.8
24-Oct-02	10:23~10:53	0.5	0.9

#### Wind Speed during Impact Noise Monitoring

<sup>1</sup>No wind speed data due to relocation of weather station

#### Appendix L: Wind Data Monitoring Result

Wind Direction during Impact Air Monitoring - Frequency of Wind Direction at 5 minute Interval

Date							Wir	d Directi	ion (Deg	ree)						
	0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5	225.0	247.5	270.0	292.5	315.0	337.5
30-Sep-02	0	0	0	22	216	0	0	0	0	0	0	0	0	0	0	0
2-Oct-02	0	0	0	17	70	2	0	0	0	0	0	0	0	0	0	0
5-Oct-02	1	0	0	12	161	16	0	0	0	0	0	0	0	0	0	0
7-Oct-02	8	3	14	18	2	0	1	0	1	1	0	1	8	3	3	12
11-Oct-02	0	0	2	16	5	6	3	2	6	13	8	8	5	2	1	0
12-Oct-02	0	0	1	56	66	0	0	0	0	0	0	0	0	0	0	1
17-Oct-02	0	0	0	25	144	77	17	0	0	0	0	0	0	0	0	0
<sup>1</sup> 18-Oct-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23-Oct-02	58	48	16	7	9	10	15	13	2	1	0	0	2	1	3	25
24-Oct-02	47	16	1	1	12	6	20	13	13	0	0	0	0	0	0	9

<sup>1</sup>No wind direction data due to relocation of weather station

## Appendix M1

# Noise Monitoring Results for Normal Hour

The Summary of Day-time Leq <sub>30</sub> Level at Mei Foo Sun Chuen (NS
--

Date	Monitoring Time	Duration	Leq	L10	L90	Limit Level
		min	dB(A)	dB(A)	dB(A)	dB(A)
2-Oct-02	10:44	30	62.5	63.7	60.9	75.0
7-Oct-02	10:40	30	62.8	64.0	60.9	75.0
18-Oct-02	10:40	30	67.4	71.8	62.0	75.0
24-Oct-02	10:23	30	60.0	61.5	58.3	75.0

#### The Summary of Day-time Leq<sub>30</sub> Level at Stonecutters Base (NSR 2)

Date	Monitoring Time	Duration	Leq	L10	L90	Limit Level
		min	dB(A)	dB(A)	dB(A)	dB(A)
2-Oct-02	09:55	30	74.2	78.2	69.5	75.0
7-Oct-02	09:50	30	74.5	77.2	68.4	75.0
18-Oct-02	14:35	30	74.4	79.1	69.0	75.0
24-Oct-02	09:41	30	70.9	73.4	66.0	75.0

## Appendix M2

# Noise Monitoring Results for Restricted Hour

Date	Monitoring Time	Duration	Leq	L10	L90	Limit Level
		min	dB(A)	dB(A)	dB(A)	dB(A)
9-Oct-02	19:38	5	60.9	63.2	57.1	70.0
9-Oct-02	19:43	5	61.3	63.5	57.0	70.0
9-Oct-02	19:48	5	62.1	64.3	58.0	70.0
9-Oct-02	19:53	5	58.4	60.4	53.8	70.0
9-Oct-02	19:58	5	58.6	60.9	54.4	70.0
9-Oct-02	20:03	5	59.1	61.2	54.4	70.0
18-Oct-02	20:06	5	60.6	63.0	56.1	70.0
18-Oct-02	20:11	5	61.0	64.5	56.5	70.0
18-Oct-02	20:16	5	61.6	65.0	57.0	70.0
18-Oct-02	20:21	5	58.1	61.0	53.4	70.0
18-Oct-02	20:26	5	59.2	61.6	54.0	70.0
18-Oct-02	20:31	5	58.4	61.5	53.6	70.0

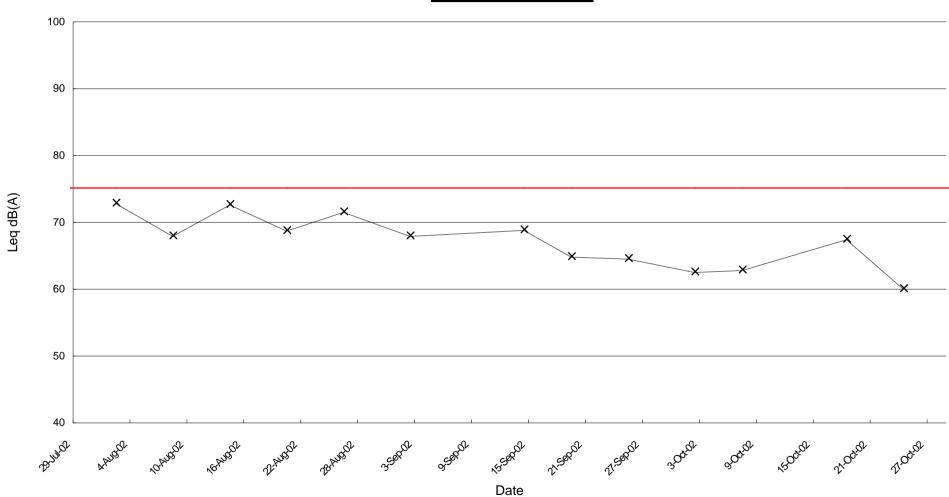
#### The Summary of Evening-time Leq<sub>5</sub> Level at Mei Foo Sun Chuen (NSR 1)

#### The Summary of Evening-time Leq<sub>5</sub> Level at Stonecutters Base (NSR 2)

Date	Monitoring Time	Duration min	Leq dB(A)	L10 dB(A)	L90 dB(A)	Limit Level dB(A)
9-Oct-02	19:10	5	76.6	79.8	68.0	70.0
9-Oct-02	19:15	5	76.1	80.1	69.3	70.0
9-Oct-02	19:20	5	76.5	78.8	67.1	70.0
9-Oct-02	19:25	5	74.9	78.9	67.8	70.0
9-Oct-02	19:30	5	75.6	79.1	68.1	70.0
9-Oct-02	19:35	5	74.5	78.5	68.4	70.0
18-Oct-02	19:21	5	74.8	78.8	69.1	70.0
18-Oct-02	19:26	5	74.4	78.7	68.8	70.0
18-Oct-02	19:31	5	73.8	78.0	67.9	70.0
18-Oct-02	19:36	5	73.9	78.0	68.1	70.0
18-Oct-02	19:41	5	74.1	78.7	68.2	70.0
18-Oct-02	19:46	5	74.0	79.0	69.3	70.0

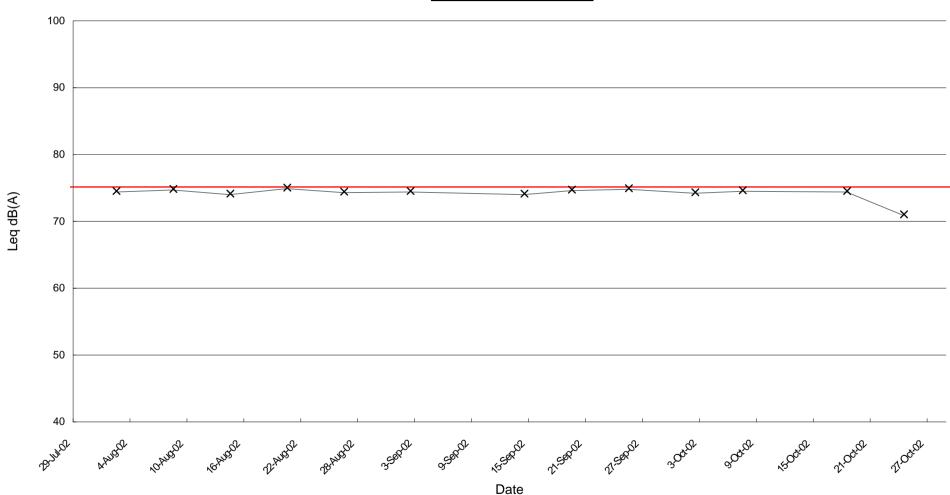
### Appendix N1

Graphical Presentation of Noise Monitoring Results for Normal Hour Day-time Leq<sub>30</sub> Level at Mei Foo Sun Chuen (NSR1)



-X-Leq ----Limit Level

Day-time Leq<sub>30</sub> Level at Stonecutters Base (NSR2)

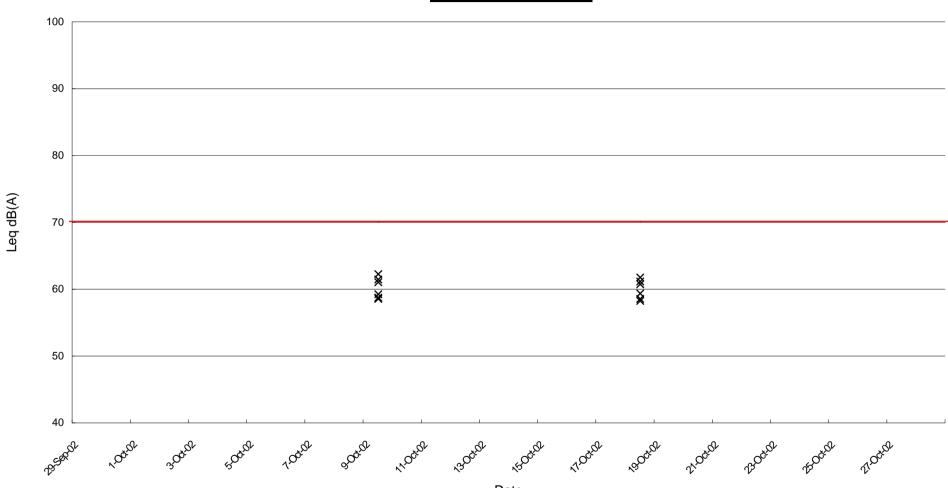


—X—Leq ——Limit Level

### Appendix N2

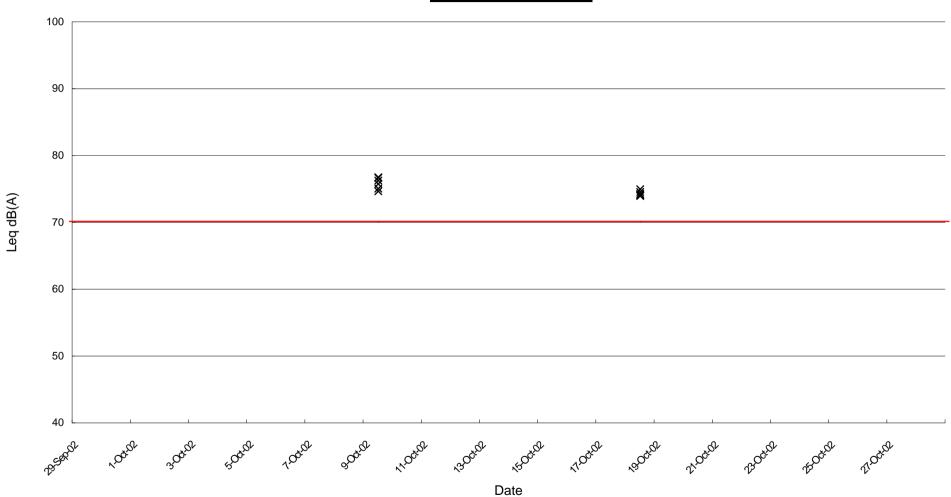
Graphical Presentation of Noise Monitoring Results for Restricted Hour

#### Evening-time Leq<sub>5</sub> Level at Mei Foo Sun Chuen (NSR1)



× Leq — Limit Level

Evening-time Leq<sub>5</sub> Level at Stonecutters Base (NSR2)



× Leq — Limit Level

# Appendix O1

**Environmental Complaint Log Book** 

#### Appendix O1-Summary of Previous Complaints Details

Case No	Date of Received	Date of Complaint	Complainant's information	Detail's of complaint	Recommended Mitigation Measures	Follow-up Action	Status/Remarks
E2002-01	19-Aug-02	19-Aug-02	Complaint was referred by HyD on 19-Aug-02	Illegal Dumping (Soil and mud/C&D waste) on Lai Po Road; near the site entrance of KMB Depot on 19-Aug-	Clear up the illegal dumping on site.	CHEC and RSS report that the illegal dumping were found within the site boundary in a.m. on 19-Aug-02. CHEC cleared up the soil and waste in p.m. on 19-Aug-02.	Closed. Follow-up phone call to complainant on 20-Aug-02. The complainant was satisfied to our prompt action.
				02. Suspect not due to the Project's work.		Investigations were undertaken by ET on 20 and 21 Aug 02. The waste was cleared up and no further illegal dumping was found at the same location.	
EC2002-02	20-Sep-02	9-Sep-02	Complaint was referred by EPD on 20-Sept-02.	Noise and vibration at the complainant's office generated from the piling works at the site between Hing Wah Street West and Lai Po Road.	Several vibration measures were implemented since 27 August 2002. The Contractor used a smaller power vibro hammer for casing installation, limit the casing installation operation to 7:00am-9:00am, 12:00- 13:00pm and 17:00 -19:00pm, and carry out vibration monitoring to ensure the magnitude of vibration during casing installation is within the specified limit.	and 25 September 2002.	Closed. Site meeting with EPD on 25 September 2002 and they had no further comment for the carried out mitigation measures. ET Leader send a comprehensive report to EPD on 30 September 2002.
						No noise exceedance was recorded at the two designated location since the commencement of construction work.	
EC2002-03	15-Oct-02	15-Oct-02	Complaint was referred by HyD H/Q on 15-Oct- 02.	Stacking of grass stockpiled within the fenced area between the Lai Po Road northbound and MTRC boundary fence. The fence area was a vacant Government Land maintained by District Land Officer (DLO), Kwai Tsing. The stack of glass was generated from grass cutting which was conducted by the sub- contractor of DLO on 12-Oct-02.	by RSS on 15, 16 and 18 October 2002. After confirming with HyD and LCSD that the glass cutting was not by their contractors; DLO was consulted. DLO comfirmed that the grass was cut by his contractor and replied that the stack of glass	Follow-up phone call to complainant on 21-Oct-02. The complainant was satisfied to DLO's action.	Closed. A comprehensive letter has been send to the complainant on 22 October 2002.

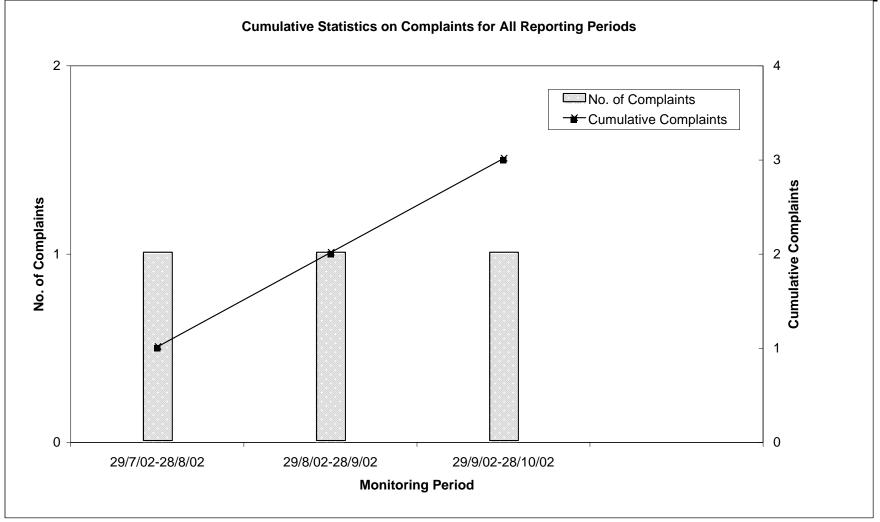
## Appendix O2

**Cumulative Statistics for Environmental Complaint** 

#### **Appendix O2 - Cumulative Statistics of Complaints**

#### Route 9 Ngong Shuen Chau Viaduct

Appendix O2 - Cumulative Statictis On Complaints For The Past Reporting Periods



### Appendix P

Tentative Environmental Monitoring Schedule from 29<sup>th</sup> October 2002 to 28<sup>th</sup> January 2003

#### Environmental Monitoring Schedule between 29-October and 28-November 2002

Sunc	lay	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			29-Oct 24hrs-TSP	30-Oct 1hr-TSP Noise	31-Oct	1-Nov	2-Nov
Noise <sub>PH</sub>	3-Nov	4-Nov 24hrs-TSP	5-Nov 1hr-TSP Noise	6-Nov	7-Nov		9-Nov 24hrs-TSP
Noise <sub>PH</sub>		11-Nov 1hr-TSP Noise	12-Nov	13-Nov			16-Nov 1hr-TSP
Noise <sub>PH</sub>	17-Nov	18-Nov			24hrs-TSP	22-Nov 1hr-TSP Noise	23-Nov
Noise <sub>PH</sub>	24-Nov	25-Nov	26-Nov	24hrs-TSP	28-Nov 1hr-TSP Noise		

1hr-TSP 3 x 1 hour TSP monitoring at ASR1 and ASR2 during 09:00~18:00.

24hrs-TSP 24 hours TSP monitoring at ASR1 and ASR2

Noise Leq<sub>30</sub> measurement at NSR1 and NSR2 during 07:00~19:00.

Noise<sub>Evening</sub> 6 x Leq<sub>5</sub> measurement at NSR1 and NSR2 during 19:00~23:00 (if construction activities are undertaken).

Noise<sub>PH</sub>  $6 \times leq_5$  will be measured during 07:00~19:00 (if construction activities are undertaken).

#### Tentative Environmental Monitoring Schedule between 29-November and 28-December 2002

Sunday	Monday	Tue	sday	Wednesday	Thursday	Friday	Saturday
						29-Nov	30-No
1-I Noise <sub>PH</sub>	Dec 2	2-Dec 24hrs-TSF		4-Dec 1hr-TSP Noise	5-Dec	6-Dec	7-De
8-I Noise <sub>PH</sub>	Dec S 24hrs-TSP	9-Dec 1hr-TSP Noise	10-Dec	11-Dec	12-Dec		14-De 24hrs-TSP
15-I Noise <sub>PH</sub>	Dec 16 1hr-TSP Noise	6-Dec	17-Dec	18-Dec			21-De 1hr-TSP
22-I Noise <sub>PH</sub>	Dec 23	3-Dec 24hrs-TSF	24-Dec	25-Dec		27-Dec 1hr-TSP Noise	28-De

1hr-TSP 3 x 1 hour TSP monitoring at ASR1 and ASR2 during 09:00~18:00.

24hrs-TSP 24 hours TSP monitoring at ASR1 and ASR2

Noise Leq<sub>30</sub> measurement at NSR1 and NSR2 during 07:00~19:00.

Noise<sub>Evening</sub> 6 x Leq<sub>5</sub> measurement at NSR1 and NSR2 during 19:00~23:00 (if construction activities are undertaken).

Noise<sub>PH</sub>  $6 \times leq_5$  will be measured during 07:00~19:00 (if construction activities are undertaken).

Sunc	day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	29-Dec	30-Dec		1-Jan		3-Jan	4-Jan
Noise <sub>PH</sub>			24hrs-TSP Noise		1hr-TSP Noise		
	5-Jan	6-Jan	7-Jan	8-Jan	9-Jan	10-Jan	11-Jan
Noise <sub>PH</sub>			24hrs-TSP	1hr-TSP Noise			
	12-Jan	13-Jan	14-Jan	15-Jan	16-Jan	17-Jan	18-Jan
Noise <sub>PH</sub>			1hr-TSP Noise				24hrs-TSP
	19-Jan	20-Jan	21-Jan	22-Jan	23-Jan	24-Jan	25-Jan
Noise <sub>PH</sub>		1hr-TSP Noise				24hrs-TSP	1hr-TSP
	26-Jan	27-Jan	28-Jan				
Noise <sub>PH</sub>							

#### Tentative Environmental Monitoring Schedule between 29-December and 28-January 2003

1hr-TSP 3 x 1 hour TSP monitoring at ASR1 and ASR2 during 09:00~18:00.

24hrs-TSP 24 hours TSP monitoring at ASR1 and ASR2

Noise Leq<sub>30</sub> measurement at NSR1 and NSR2 during 07:00~19:00.

Noise<sub>Evening</sub> 6 x Leq<sub>5</sub> measurement at NSR1 and NSR2 during 19:00~23:00 (if construction activities are undertaken).

Noise<sub>PH</sub>  $6 \times leq_5$  will be measured during 07:00~19:00 (if construction activities are undertaken).