Highways Department

Route 8 (previously known as Route 9) between Cheung Sha Wan & Sha Tin

Contract No. HY/2003/10 - Environmental Team for Lai Chi Kok Viaduct and Eagle's Nest Tunnel

Quarterly EM&A Report Part II – Eagle's Nest Tunnel and Associated Works (Version 1.0)

December 2005 to February 2006

Approved By	Chupt
	(Environmental Team Leader)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

CINOTECH accepts no responsibility for changes made to this report by third parties.

CINOTECH CONSULTANTS LTD Room 1602-1610, Delta House, 3 On Yiu Street, Shatin, NT, Hong Kong Tel: (852) 2151 2083 Fax: (852) 3107 1388 Email: info@cinotech.com.hk

TABLE OF CONTENTS

E	XECUTIVE SUMMARY	1
	ENVIRONMENTAL MONITORING WORKS ENVIRONMENTAL LICENSING AND PERMITTING KEY INFORMATION IN THE REPORTING QUARTER	1
1.	INTRODUCTION	3
2	PROJECT CHARACTERISTICS	4
	PROJECT ORGANIZATION AND CONTACTS OF KEY MANAGEMENT CONSTRUCTION PROGRAMME AND SYNOPSIS OF WORK	
3	ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS	5
	MONITORING PARAMETERS AND MONITORING LOCATIONS MONITORING METHODOLOGY AND CALIBRATION DETAILS ENVIRONMENTAL QUALITY PERFORMANCE LIMITS (ACTION AND LIMIT LEVELS) ENVIRONMENTAL MITIGATION MEASURES	5 5
4	MONITORING RESULTS	5
	WEATHER CONDITIONS AIR QUALITY CONSTRUCTION NOISE	5
5	ENVIRONMENTAL AUDIT	7
	IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES SITE AUDIT SUMMARY STATUS OF ENVIRONMENTAL LICENSING AND PERMITTING	7
6 P	NON-COMPLIANCE (EXCEEDANCES) OF THE ENVIRONMENTAL QUALIT ERFORMANCE LIMITS (ACTION AND LIMIT LEVELS)	
	SUMMARY OF EXCEEDANCES Review of the Reasons for and the Implications of Non-compliance	
7	ENVIRONMENTAL COMPLAINTS	11
8	NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS	12
9	COMMENTS, CONCLUSIONS AND RECOMMENDATIONS	12

LIST OF TABLE

Table I	Summary Table for Exceedances Recorded in the Reporting Quarter
Table II	Summary Table for Key Information in the Reporting Quarter

Table 5.1Observations and Recommendations of Site Audit

LIST OF FIGURES

Figure 1a	Location of monitoring stations
Figure 1b	Location of monitoring stations
Figure 2	Project Organization Chart

LIST OF APPENDICES

Appendix A	Contact Details of the Project Organisation
Appendix B	Construction Programme
Appendix C	Monitoring Requirements
Appendix D	Environmental Quality Performance (Action/Limit) Levels
Appendix E	Graphical Presentation of Air Quality Monitoring Results
Appendix F	Graphical Presentation of Noise Monitoring Results
Appendix G	Implementation Schedule of Environmental Mitigation Measures (EMIS)
Appendix H	Summary Status of Environmental Licences and Permits
Appendix I	Complaint Log
Appendix J	Summary of Exceedances

EXECUTIVE SUMMARY

- This is the ninth Quarterly Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for the "Route 8 (previously known as Route 9) between Cheung Sha Wan & Sha Tin, Lai Chi Kok Viaduct & Eagle's Nest Tunnel". This summary report documents the findings of EM&A works performed in the period between December 2005 and February 2006 for Contract No. HY/2003/02, Route 8 – Eagle's Nest Tunnel and Associated Works (the Project).
- The major site activities undertaken in the reporting month included slope cutting, excavation works, tunnel lining and concreting works for portal buildings and Administration Building.

Environmental Monitoring Works

- Environmental monitoring for the Project was performed regularly as stipulated in the EM&A Manual and the results were checked and reviewed. Environmental site audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.
- Summary of the events and action taken in the reporting quarter is tabulated in **Table I**.

Table I Summary Table for Events Recorded in the Reporting Quarter

Parameter	No. oj	f Events	No. of Events	Action Taken	
Parameter	Action Level Limit Level Du		Due to the Project	Action Taken	
December 2005					
1-hr TSP	0	0	0	N/A	
24-hr TSP	0	0	0	N/A	
Noise	0	0	0	N/A	
January 2006					
1-hr TSP	0	0	0	N/A	
24-hr TSP	0	0	0	N/A	
Noise	1	0	0	Complaint investigation	
February 2006	·		·		
1-hr TSP 0		0	0	N/A	
24-hr TSP	0	0	0	N/A	
Noise	0	1	0	NOE was issued.	

Environmental Licensing and Permitting

• Licenses/Permits granted to the Project include the Environmental Permit (EP) for the Project, Construction Noise Permits (CNPs) and Water Discharge Licenses (WDLs). The Contractor had also registered as a Chemical Waste Producer.

Key Information in the Reporting Quarter

• Summary of key information in this reporting quarter is tabulated in **Table II**.

Table II Summary Table for Key Information in the Reporting Quarter

Event	Event Details		Action Taken	Status	Remark	
Event	Number Nature		Action Taken	Status	Kemai K	
Complaint received	1	dust & noise	Complaint investigation	Closed		
Changes to the assumptions and key construction / operation activities recorded	0		N/A	N/A		
Status of submissions under EP	0		N/A	N/A		
Notifications of any summons & prosecutions received	0		N/A	N/A		

Future Key Issues:

Major site activities for the coming month include:

- Slope cutting;
- Haul road construction;
- Soil nail installations;
- Retaining wall construction;
- Installation of water proofing membrane in tunnels;
- Portal building construction.

The anticipated environmental impacts will be mainly on surface runoff during rainy days, dust from slope work, haul roads and stockpiles.

1. INTRODUCTION

- 1.1 Route 9 (Kowloon Section) (R9K) (hereinafter call the R9K-Project) forms part of the Route 9 between Cheung Sha Wan and Sha Tin (R9-CSWST) project, which will be a new expressway connecting West Kowloon and Sha Tin. It will be the fourth external link between Sha Tin and Kowloon and will form an important link between the northeast New Territories and the west Kowloon, Lantau Island and the western New Territories. R9K is being managed and implemented by the Highways Department (HyD).
- 1.2 The engineering design of R9K is covered under Agreement No. CE 50/98 "Route 9 between Cheung Sha Wan and Sha Tin Design Construction Assignment". The main consultant engaged under Agreement No. CE 50/98 is Maunsell Hyder Joint Venture (MHJV), who will act as the Engineer for the construction contracts. The works of R9K mainly comprise a 1.4km dual 3-lane Lai Chi Kok Viaduct from Lai Wan Interchange to Butterfly Valley; 0.5 km of dual 3-lane at-grade carriageway linking to the 2.1 km dual 3-lane twin-bore Eagle's Nest Tunnel with associated portal buildings; a toll plaza with an administration building located with the Sha Tin valley woodland; a ventilation building and an adit; associated noise barriers, noise enclosures, drainage, slope and landscape works; and electrical and mechanical works for the whole R9-CSWST. The remainder of the R9-CSWST forms the Sha Tin Section (R9S) of the project and is being managed and implemented separately by the Civil Engineering and Development Department (CEDD).
- 1.3 The R9-CSWST project is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 449) (EIAO). An environmental impact assessment (EIA) report has been prepared in 1998 for the R9-CSWST project (1998 R9 EIA) to consider the key issues of noise, air quality, water quality, ecological, construction waste, landscape and visual, land use and cultural impacts, and identify possible mitigation measures.
- 1.4 An Updated Final EIA report was subsequently completed in August 1999 for the R9-CSWST project (1999 R9 EIA), to cater for some changes in R9K portion as mentioned in paragraph 1 in the report. The 1999 R9 EIA was endorsed by Environmental Protection Department (EPD) in November 1999. The 1998 R9 EIA and the 1999 R9 EIA (R9 EIA Reports) were included in the EIA register under the EIAO as report no. EIA-135/BC and AEIAR-022/1999 respectively. An Environmental Monitoring and Audit (EM&A) Manuals for each of the R9 EIA Reports (EM&A Manuals) were also included as part of the EIA reports in the register.
- 1.5 Subsequent to the endorsement of the R9 EIA Reports by EPD in November 1999, the project programme was deferred to start in 2002/2003 for completion by 2006/07. The implementation of the project was then separated into the R9S and R9K portion. An Environmental Permit (EP) No. EP-103/2001 was issued on 17 September 2001 for R9K to the HyD as Permit Holder. A revised EP No. EP-103/2001/A was issued on 20 May 2003 for R9K (R9K EP) to HyD as Permit Holder. A varied EP-103/2001/C was recently issued on 22 July 2005.

3

- 1.6 The major construction activities of two civil contracts of the R9K project, Contract No. HY/2003/01 entitled "Route 9 – Lai Chi Kok Viaduct" and Contract No. HY/2003/02 entitled "Route 9 – Eagle's Nest Tunnel and Associated Works", were commenced in 15th December 2003 for completion in April 2007.
- 1.7 "Route 9" was recently re-titled as "Route 8 (previously known as Route 9)". Cinotech Consultants Limited (Cinotech) was commissioned by HyD to undertake the Environmental Monitoring and Audit works for "Route 8 (previously known as Route 9) between Cheung Sha Wan and Sha Tin Environmental Team (ET) for Lai Chi Kok Viaduct and Eagle's Nest Tunnel (Contract No. HY/2003/10)". Dr. Priscilla CHOY of Cinotech was appointed as the ET Leader under Condition 2.2 of the EP. Mr. David YEUNG of CH2M-IDC Hong Kong Ltd. was appointed as the IEC under Condition 2.1 of the EP. This is the ninth quarterly EM&A report summarizing the EM&A works for the ENT Project between December 2005 and February 2006.

2 **PROJECT CHARACTERISTICS**

Project Organization and Contacts of Key Management

2.1 An organization structure and the line of communication were set up for the Project between the Project Proponent, Engineer's Representative (ER), Independent Environmental Checker (IEC), the Contractor and Environmental Team (ET). The organization chart and contact details are shown in **Appendix A** and **Figure 2**.

Construction Programme and Synopsis of Work

- 2.2 The construction programme is presented in **Appendix B**. The site activities during the reporting period include:
 - Regular blasting at North Portal and South Portal;
 - Soil nailing, box culvert and water-main works at Butterfly Valley;
 - Cut slop, drainage works and haul road construction at Butterfly Valley;
 - Chlorine barrier wall construction at Portion X;
 - Surface blasting and retaining wall construction at Butterfly Valley;
 - Water proofing membrane and lining construction at ENT Tunnel;
 - Excavation and mucking out from tunnels;
 - Pile cap construction at South Portal, North Portal, Toll Plaza and Ventilation Adit;
 - Tunnel drainage, cross passage, ventilation adit shotcreting, OHVD slab, road construction, E&M works and Kiler construction at ENT Tunnel;
 - Excavation, concreting of blinding layer, column and wall at South Portal, North Portal, Toll Plaza and Ventilation Adit;
 - Permanent rock dowels and shotcreting at Ventilation Adit;
 - Footing construction at Ventilation Adit;
 - Footbridge, subway construction and drainage works at Toll Plaza;
 - E&M MSFD installation at ENT Tunnel; and
 - E&M installation work within SHT works area.

3 ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS

Monitoring Parameters and Monitoring Locations

3.1 The EM&A Manual designated locations for the ET to monitor environmental impacts in terms of noise and air quality due to the Project. The monitoring locations are depicted in **Figures 1a** and **1b**. **Appendix C** gives details of monitoring requirements.

Monitoring Methodology and Calibration Details

3.2 Monitoring works/equipments were conducted/calibrated regularly in accordance with the EM&A Manual. Copies of calibration certificates are attached in the appendices of the Monthly EM&A Reports.

Environmental Quality Performance Limits (Action and Limit Levels)

3.3 The environmental quality performance limits, i.e. Action and Limit Levels were derived from the baseline monitoring results. Should the measured environmental quality parameters exceed the Action/Limit Levels, the respective Event Action Plans would be implemented. The Action/Limit Levels for each environmental parameter are provided in **Appendix D**.

Environmental Mitigation Measures

3.4 Relevant mitigation measures as recommended in the project EIA report have been stipulated in the EM&A Manuals for the Contractor to implement. A list of mitigation measures is given in **Appendix G**.

4 MONITORING RESULTS

Weather Conditions

4.1 The weather during monitoring sessions was mainly sunny or cloudy. The weather conditions for each individual monitoring session were presented in the field record sheets.

Air Quality

1-hr TSP Monitoring

- 4.2 All 1-hour TSP monitoring was conducted as scheduled during the reporting month.
- 4.3 No Action / Limit Level exceedance was recorded in this reporting quarter.

24-hr TSP Monitoring

- 4.4 All 24-hr TSP monitoring was conducted as scheduled in this reporting quarter.
- 4.5 No Action / Limit Level exceedance was recorded in the reporting quarter.
- 4.6 The monitoring data of 1-hr and 24-hr TSP Levels are attached in the appendices of the Monthly Reports for December 2005 to February 2006. The graphical presentations of the monitoring results are shown in **Appendix E**.

Construction Noise

- 4.7 Noise monitoring was performed at the four designated locations during the daytime period (0700-1900 hours) on normal as scheduled in this reporting month. Restricted-hour monitoring was also conducted at NM5, NM6 and NM7.
- 4.8 One Action Level exceedance was recorded due to a noise complaint received on 4 January 2006.
- 4.9 One Limit Level exceedance was recorded on 16 February 2006 at NM7 (Garden Villa). According to the field observation, the major noise source was from the breaking activities by other contractor and the exceedance was considered not related to the Project works.
- 4.10 All the Construction Noise Levels (CNLs) reported in this report were adjusted with the corresponding baseline level (i.e. Measured Leq Baseline Leq = Measured CNL), in order to facilitate the interpretation of the noise exceedance.
- 4.11 The monitoring data of construction noise are attached in the appendices of the Monthly Reports for December 2005 to February 2006. The graphical presentations of the monitoring results are shown in **Appendix F**.
- 4.12 Construction noise exceedances recorded in the reporting quarter and the associated actions taken are summarized in **Appendix J**.

5 ENVIRONMENTAL AUDIT

Implementation Status of Environmental Mitigation Measures

5.1 According to the Environmental Permit and the EM&A Manuals, the mitigation measures detailed in the documents are required to be implemented. An updated summary of the Environmental Mitigation Implementation Status (EMIS) is provided in **Appendix G**.

Site Audit Summary

- 5.2 ET's weekly site audits were conducted on 6, 14, 22 and 29 December 2005, 4, 11, 19 and 25 January, 2, 6, 16 and 23 February 2006. IEC's monthly site audits were conducted on 6 December 2005, 4 January and 6 February 2006 together with ET.
- 5.3 During site inspections in the reporting period, no non-conformance was identified. The observations and recommendations are summarized in **Table 5.1**.

Parameters	Date	Observations / Recommendations	Remedial Actions
Air Quality	6-Dec-05	Uncovered stockpiles of dusty material were identified at Portion D4 (Toll Plaza). The Contractor was recommended to cover the idled stockpiles properly to minimize dust emission.	Rectification / improvement was observed during the site audit on 14-Dec-05.
	14-Dec-05	Deposition of mud and soil was observed on the WTW access road. The Contractor was reminded to improve the performance of wheel washing at the site exit of South Portal area.	Rectification / improvement was observed during the site audit on 22-Dec-05.
	29-Dec-05	Partly covered stockpile was observed at Toll Plaza. The contractor was reminded to cover the stockpile.	Rectification / improvement was observed during the site audit on 4-Jan-06.
	4-Jan-06	Fugitive dust emission was observed from soil nailing work at BVS2. The Contractor was reminded to provide proper cover and sufficient water spray for the works. Immediate action was taken by the Contractor to rectify the problem.	Rectification / improvement was observed during the site audit on 11-Jan-06.
	4-Jan-06 11-Jan-06	Dark smoke was emitted from an air compressor at BVS2. The Contractor was reminded to ensure proper maintenance for the equipment used on site.	Rectification / improvement was observed during the site audit on 19-Jan-06.
	6-Feb-06	Fugitive dust emission was observed during the excavation works at Portion D4 near Administration Building. Immediate actions (water spray) were taken by the Contractor during the audit session.	Immediate action was taken by the Contractor during the audit session.

 Table 5.1
 Observations and Recommendations of the Site Audits

Parameters	Date	Observations / Recommendations	Remedial Actions
	16-Feb-06	Fugitive dust emission was observed from the drilling works at Portion I1 (South Portal). The Contractor was reminded to implement sufficient dust mitigation measures during the dust emissive works.	Rectification / improvement was observed during the site audit on 23-Feb-06.
	23-Feb-06	Open stockpile was observed in site at Toll Plaza (Portion D4). It should be covered by imperious sheeting if idled or spayed with water.	Rectification / improvement was observed during the site audit on 2-Mar-06.
Noise	14-Dec-05	An air compressor was operated with doors opened at Portion H1 near the existing box culvert. The Contractor was reminded to keep the compressor's doors closed during operation.	Rectification / improvement was observed during the site audit on 22-Dec-05.
	25-Jan-06	Noise label of Air Compressor was found missing at BVS-2. The Contractor was reminded to provide a label for the compressor.	Rectification / improvement was observed during the site audit on 2-Feb-06.
Chemical and Waste Management	6-Dec-05	Fuel oil was observed accumulating inside the drip tray besides the wheel washing bay of Ventilation Adit. The Contractor was reminded to remove the oil as soon as possible to prevent oil spillage.	Rectification / improvement was observed during the site audit on 14-Dec-05.
	14-Dec-05	General refuse scattering on ground was observed at Toll Plaza Portion D4. The Contractor was reminded to dispose of the refuse properly.	Rectification / improvement was observed during the site audit on 22-Dec-05.
22-Dec-05		Oil dripping on the ground from the blocked hold of drip tray was observed at BVS-4. The contractor was reminded to rectify the situation.	Rectification / improvement was observed during the site audit on 29-Dec-05.
	22-Dec-05 29-Dec-05	Oil stain on the ground near drip tray was observed at Toll Plaza. The contractor was reminded to rectify the situation.	Rectification / improvement was observed during the site audit on 4-Jan-06.
	4-Jan-06	An oil drum was placed on bare ground besides the air compressor at BVS2. A drip tray should be provided for the drum.	Rectification / improvement was observed during the site audit on 11-Jan-06.
	4-Jan-06	Refuse was found scattering on site behind the container barrier and in the sand trap at Ventilation Adit.	Rectification / improvement was observed during the site audit on 11-Jan-06.
	11-Jan-06	A hole was observed on the drip tray at Portion D3. The contractor was reminded to block the hole to prevent oil dripping on the ground.	Rectification / improvement was observed during the site audit on 19-Jan-06.
	11-Jan-06	Oil stain was observed beside drip tray near sub- contractor office at Toll Plaza. The contractor was reminded to collect the stained soil.	Rectification / improvement was observed during the site audit on 19-Jan-06.
	19-Jan-06	Oil drum was placed on the bare ground at Ventilation Adit. The contractor was reminded to provide a drip tray for the oil drum.	Rectification / improvement was observed during the site audit on 25-Jan-06.

Parameters	Date	Observations / Recommendations	Remedial Actions
	25-Jan-06	Oil drum was placed on the bare ground near the Air Compressor at BVS-2. The contractor was reminded to provide a drip tray for the oil drum.	Rectification / improvement was observed during the site audit on 2-Feb-06.
	25-Jan-06	Refuse was found scattering on site near aqur-sed at South Portal. The Contractor was reminded to clean the refuse.	Rectification / improvement was observed during the site audit on 2-Feb-06.
	6-Feb-06	Oil drums at BVS2 and Portion D4 (near subway) were not placed at bunded area. The Contractor was reminded to provide drip trays for the oil drums.	Rectification / improvement was observed during the site audit on 16-Feb-06.
	16-Feb-06	Oil stain was observed at Portion D4 near the Administration Building.	Rectification / improvement was observed during the site audit on 23-Feb-06.
	23-Feb-06	Oil stain was observed in site at Mui Kong Tsuen near AquaSed.	Rectification / improvement was observed during the site audit on 2-Mar-06.
	16-Feb-06	Copy of the Environmental Permit was not posted at the site exit of Ventilation Adit.	Rectification / improvement was observed during the site audit on 23-Feb -06.
Permit / Licenses	16-Feb-06	Copy of the Environmental Permit was not posted at the site exit of Ventilation Adit.	Rectification / improvement was observed during the site audit on 23-Feb -06.
Others	6-Dec-05	Stagnant water was observed besides the North Portal's site sub-office at Portion D4. The Contractor was reminded to divert the water to prevent mosquito breeding.	Rectification / improvement was observed during the site audit on 14-Dec-05.

Status of Environmental Licensing and Permitting

5.4 Environmental licenses and permits including the Environmental Permit for the Project were in place and valid during the reporting quarter. The status of all licenses and permits obtained for the Project is summarized in **Appendix H**.

6 NON-COMPLIANCE (EXCEEDANCES) OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS (ACTION AND LIMIT LEVELS)

Summary of Exceedances

Air Quality

6.1 No Action / Limit Level exceedance was recorded.

Construction Noise Monitoring

- 6.2 One Action Level exceedance was recorded due to a noise complaint received on 4 January 2006.
- 6.3 One Limit Level exceedance was recorded on 16 February 2006 at NM7 (Garden Villa). According to the field observation, the major noise source was from the breaking activities by other contractor and the exceedance was considered not related to the Project works. No further action was required.

Review of the Reasons for and the Implications of Non-compliance

6.4 There was no non-compliance from the site audits in the reporting quarter. As mentioned previously in the Section 5.2 of this report, the observations and recommendations made in each individual site audit session were presented.

7 ENVIRONMENTAL COMPLAINTS

7.1 Two environmental complaints were received in the reporting quarter.

Log no. 51205 (Received on 5 Dec 05)

- 7.2 The complaint was raised by the management company of Villa Carlton, regarding dust emission at the Caldecott Road Junction. The complainant considered that the amount of water spraying by the Contractor was insufficient to suppress dust emission at Caldecott Road Junction.
- 7.3 Since the previous complaint of similar nature (ET's Log no.51025) was lodged, the Contractor had implemented several dust mitigation measures to alleviate the dust impact at the Caldecott Road junction. The condition was found satisfactory and sufficient dust mitigation measures were in place as observed during the weekly environmental audit and the ad-hoc inspection carried out by ET on 6, 8 and 14 December 2005. Therefore, the complaint was considered not justifiable and the complaint investigation report was submitted on 23 December 2005.

Log no. 60104 (Received on 4 Jan 06)

- 7.4 One environmental complaint (Log no. 60104) was received on 4 January 2006 from EPD. According to EPD's information, the complainant, who walked along Tai Po Road on 1-2 January 2006, commented that construction dust and noise was noted on 1-2 January 2006 during daytime when he pass Garden Villa. The site of concern was likely to be ENT's Toll Plaza and Administration Building. Complaint investigation was undertaken by ET. Based on the monitoring results, the complaint was considered not justifiable. The complaint investigation report was submitted on 13 January 2006.
- 7.5 The details of the complaints, the investigation results and the mitigation actions are summarized in **Appendix I**. There were 22 complaints received since the Project commencement.

8 NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

- 8.1 No notification of summon or successful prosecution was recorded in this reporting quarter.
- 8.2 There was no notification of summon or successful prosecution received since the Project commencement.

9 COMMENTS, CONCLUSIONS AND RECOMMENDATIONS

9.1 Major site activities for coming months include:

ENT Tunnel

• Water-proofing membrane, tunnel lining, OHVD slab, road slab, tunnel drainage, cross passage, Ventilation Adit lining, Kicker construction, OHVD soffit and E&M works.

Butterfly Valley

• Cut slope and haul road, soil nailing, box culvert, retaining wall, water mains construction, noise barrier footing, drainage works, roc dowel and earth filling works.

South Portal Building

• Concreting of columns, walls and slab at 3/F levels.

North Portal Building

• Concreting of columns, walls and slabs at 3/F and 4/F levels.

Toll Plaza's Structures and Administration Building

• Footbridge and subway, drainage, concreting of columns, walls and slabs for workshop.

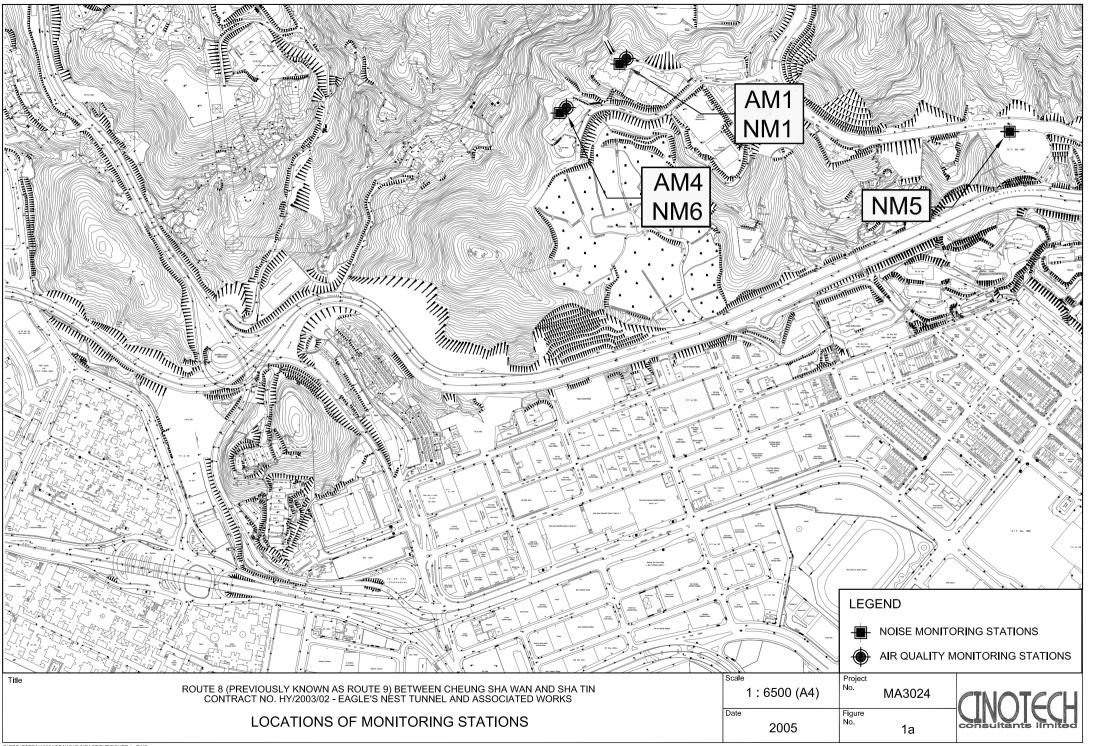
Ventilation Adit Tunnel and Building

• Concreting of columns, walls and slabs at 2/F to exhaust vent shaft floor.

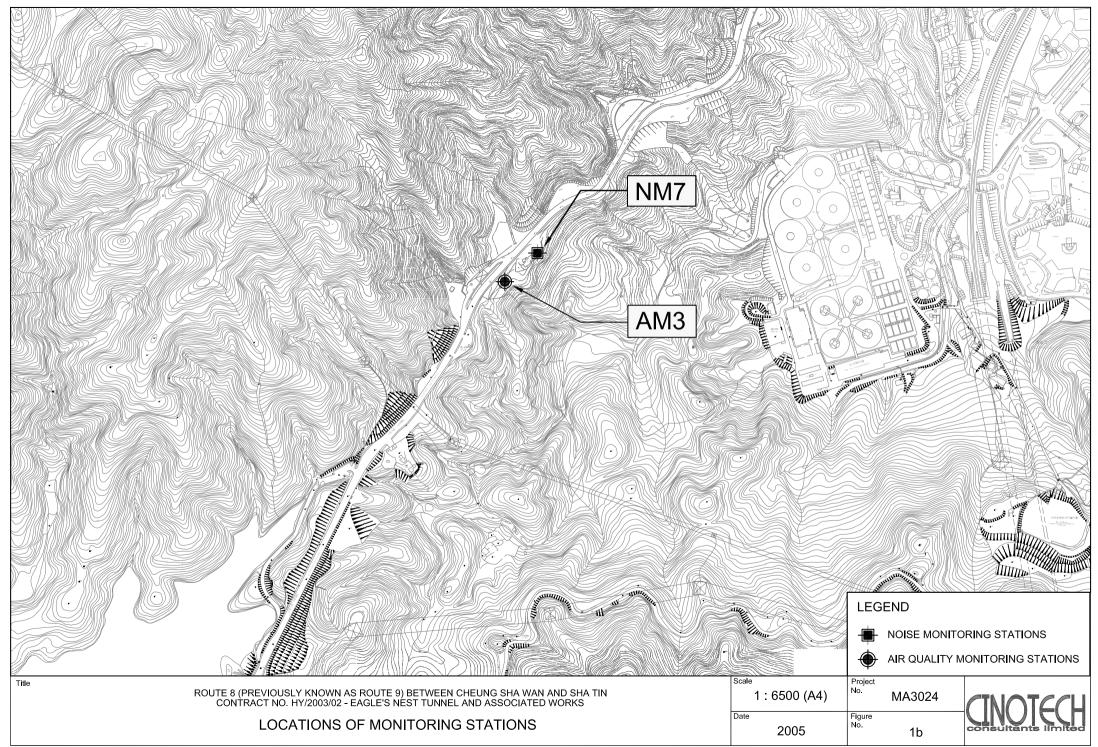
Other Works Areas

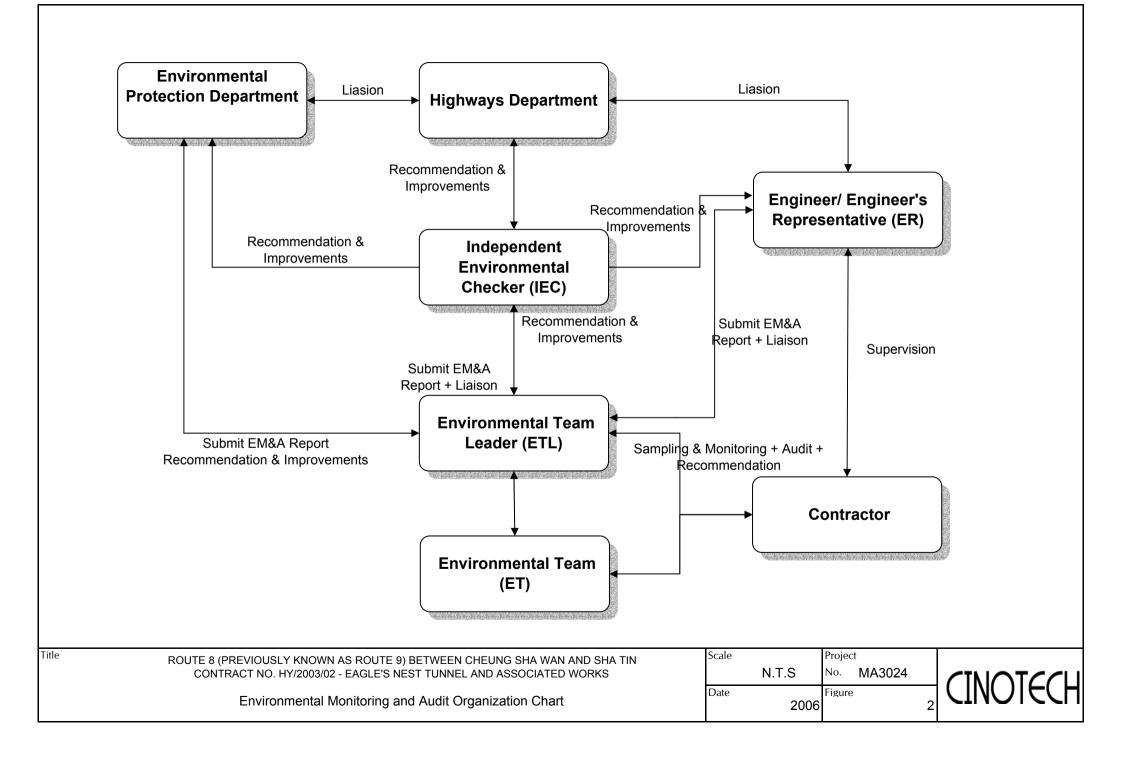
- Chlorine barrier wall construction at Portion X.
- E&M installation works within SHT works area.
- Plastering and painting of wall at SHT Portal Buildings.
- 9.2 The anticipated environmental impacts will be mainly on water quality impact at Butterfly Valley and Toll Plaza during wet season.

FIGURES



F:\PEOJECTS\MA3024\DRAWING\IMPACT\ENT\FIGURE 1a.DWG





APPENDIX A CONTACT DETAILS OF THE PROJECT ORGANISATION

Appendix A - Contact Details of the Project Organisation (ENT)

Permit No.	Valid Period		- Details	
	From	То	Details	Status
Environmental Permit	: (EP)		·	
EP-103/2001/C	22/07/05	N/A	<u>Construction and operation of</u> (a) All civil works (including highways, traffic, geotechnical, drainage, structural, architectural and landscaping works) for the Lai Chi Kok Viaduct, the interchange with Ching Cheung Road, the main road within Butterfly Valley and the Eagle's Nest Tunnel; (b) All E&M works (including ventilation, Traffic Control & Surveillance System (TCSS), toll collection system and lighting) for the whole Route 9 between Cheung Sha Wan and Sha Tin; I The permanent slope works above the northern portal of the Eagle's Nest Tunnel; (d) The architectural works (including fitting out and furnishings) of the portal buildings of the Sha Tin Heights Tunnel.	Valid
Registration of Chemi	cal Waste Proc	lucer		
WPN 5213-761-L2595-01	26/01/04	N/A	N/A	Valid
Water Discharge Licer	nce			
EP482/261/0327/I	03/05/04	31/05/09	Discharge of industrial trade effluent and effluent arsing from construction activities at the construction site at Ventilation Adit on Tai Po Road (behind Shell Filling Station) opposite Pinehilll Development Highways.	Valid
EP482/261/0326/I	01/04/04	30/04/09	Discharge of industrial trade effluent and effluent arsing from construction activities at the construction site at Mui Kong Tsuen, Butterfly Valley, Lai Chi Kok, Kowloon.	Valid
No. 3156	23/02/04	22/02/09	Discharge of industrial trade effluent and all other wastewater arising from the works areas at North Portal of Route 9 – Eagle's Nest Tunnel and Associated Works (Contract HY/2003/02).	Valid
Construction Noise Pe	rmit (CNP)			
GW-RW0643-05	08/10/05	07/04/06	<i>Location</i> : Butterfly Valley <i>Time period</i> : general holiday (including Sundays) between 0700 and 2300 hours, and any other day between 1900 and 2300 hours.	Valid
GW-RW0073-06	07/2/06	4/5/06	<i>Location:</i> Butterfly Valley <i>Time period:</i> General holidays (including Sundays) between 2300 to 0700 hrs	Valid
GW-RW0043-06	6/2/06	5/8/06	<i>Location</i> : Ventilation Adit <i>Time period</i> : general holiday (including Sundays) between 0700 and 2300 hours, and any other day between 1900 and 2300 hours.	Valid

Permit No.	Valid Period		Details	Status	
rermit No.	From	То	Details	Status	
GW-RN0532-05	04/10/05	03/04/06	<i>Location</i> : South Portal <i>Time period</i> : general holiday (including Sundays) between 0900 and 2300 hours, and any other day between 1900 and 2300 hours.	Valid	
GW-RN0447-05	04/10/05	03/04/06	<i>Location</i> : South Portal <i>Time period</i> : Any day between 2300 and 0700 hours on next day.	Valid	
GW-RN0449-05	04/10/05	03/04/06	<i>Location</i> : North Portal <i>Time period</i> : general holiday (including Sundays) between 0900 and 2300 hours, and any other day between 1900 and 2300 hours.	Valid	
GW-RN0448-05	04/10/05	03/04/06	<i>Location</i> : North Portal <i>Time period</i> : Any day between 2300 and 0700 hours on next day.	Valid	
GW-RN0537-05	11/11/05	10/05/06	<i>Location:</i> Toll Plaza <i>Time period:</i> general holiday (including Sundays) between 0900 and 2300 hours, and any other day between 1900 and 2300 hours.	Valid	
GW-RN0593-05	08/12/05	07/06/06	<i>Location</i> : South and North Portal Buildings <i>Time period</i> : general holiday (including Sundays) between 0900 and 2400 hours, and any other day between 1900 and 2400 hours.	Valid	

APPENDIX B CONSTRUCTION PROGRAMME

Data Date 20FEB06 Run Date 25FEB06 14:20			3 MON	TH R	OLLIN	g pf	ROG	RAMN	1E		Monthly I Detailed Progress Critical A	Works Bar	s Prog	r.(DWP) r					
Act. Activ		0	Early					Variance		JAN 28		FEB 29		MAR 30		APR 31	MAY 32		JUN 33
ID Descri	•	ur Start	Finish	Compi.	Compl.	Dur	Float	ariy Finis	12 19 26	20 2 9 16	23 30 6	13 2	20 27	6 ₁ 13 20	27 3	10 17 24 ¹	1 <mark>8 15</mark>	22 29	5 <mark>12</mark>
CONTRACT DEFINED DATES,	-																		
STAGES OF THE WORKS																			
KD04 KD-4 Achievement of Stage 4	(17.Dec.05) 03jan06	0	10APR06	0	100	0	-97	-227								♦			
SECTIONS OF THE WORKS				I		1	1												
KD13 KD-13 Compl.Section 5 (10.Ju	I.05) 15sep05)	25MAR06	0	100	0	-191	-294						•	•				
KD22 KD-22 Compl.Section 14 (01J	lune05) 5Jul05 ()	07APR06	0	100	0	-276	-357											
KD14 KD-14 Compl.Section 6 of the	works (24.Nov.06))	13APR06	0	0	0	225	-26			-			Û		\diamond			
PROGRAMME RESTRAINTS														~					
EXC05 LCK Contr.to erect Noise Encl	osure C3,C4 & I2 35	50 08APR06	23MAR07	0	0	350	-255	-329											
SUBMITTALS & APPROVALS																			
DRAWING SUBMITTAL & APPROV	/AL																		
8034 Prep.& Sub. Independ't Serv. I	Dwgs for SHT&T3&LCK 4	8 04AUG04	A 04MAR06	98	100	12	-2	-366											
8024 Engineer Comment / Approve	ENT ISD Submissions 1	8 06AUG04	A 28FEB06	85	100	8	-122	-482											
8030 Res-sub. & Approv of ENT ISE) 2	4 06SEP04/	A 04MAR06	70	100	12	-122	-462											
						10													
8035 Engineer Comment / Approve	SHT&T3LCK ISD Sub. 2	4 13SEP04/	4 01APR06	85	100	12	-26	-366											
8032 Engineer Comment / Approve	SHT&T3&LCK CSD Sub. 1	8 25OCT04	A 08MAR06	90	100	15	-26	-441											
8036 Re-sub. & Approv of SHT & T3	3 & LCK ISD 3	6 31MAR05	A 01APR06	70	100	36	-26	-330							-				
8033 Re-sub. & Approv. of SHT & T	3 & LCK CSD 2	4 28JUN05/	A 18MAR06	60	100	24	-26	-426											
					TON - K					Proj. Name: Lavout: 3 M	: W16C IONTHS ROI	LLING F	PROGR		Date	1	V/ENT/DWP/I ision		
KUMAGAI			R	8- EAG	GLE'S N	EST	TUNN	IEL			NTH ROLLI					Rev Programme		Checked GW/CC	RB
Leighton - Kumagai Joint Venture			DETAILED	WOR		GRA	MME	REVISI	ON C	Target 1 Pro	oj: BLRC								
						2.00				Sheet 1 of 6	-								
© Primavera Systems, Inc.															L	1			

Act.	Activity	Orig		Early	%				Variance		JAN 28	FEB 29		MAR 30	APR 31	MAY 32	JUN
		Dur	Start	Finish	Compi.	Compl.	Dur	Float	arly Finis	12 19 26	2 9 16 23	30 ₁ 6 ₁ 13	20 27	30 7 6 13 20 27	3 10 17 24	1 8 15 22	29 5 í
	TERFACE WITH SHT & T3																
	FULL ENCLOSURE Apprv.for Det.Engineering of Encl.Vent.Fans	12	07JUL04A	28FEB06	99	100	8	44	-648					1			
2473	Apprv.ior Det.Engineering of Enci.vent.rans	12	07JUL04A	ZOFEDUO	99	100	0	44	-040								
T3 UNDE	ERPASS						1										
2481	Apprv.for Det.Engineering of T3 Underpass	12	07JUL04A	28FEB06	99	100	8	44	-648]			
	KOK VIADUCT																
CONTR	ACT DEFINED DATES, STAGES & SECTIONS	5															
PORTIO	N ACCESS & VACATION																
ACS_M1	Access to Portions - M1	0	28APR06		0	0	0	10	0						↓		
ACS M2	Access to Portions - M2	0	28APR06		0	0	0	10	0						•		
			20/11/00		0		Ŭ								Ŷ		
ACS_M3	Access to Portions - M3	0	28APR06		0	0	0	212	0						\bigotimes_{n}		
															4		
	TALS & APPROVALS																
	PT./MTRL.APPROVALS BY ENGINEER	10	054110044	44140.000	00	100	10		450								
8314	LCKVd-App.Enclosure Lgt sys (incl Excision NEs)	18	05AUG04A	11MAR06	80	100	18	4	-156								
8318	LCKVd-App. Elect Power sys (incl Excision NEs)	18	07DEC04A	11MAR06	80	100	18	-24	-156								
	REMENT - MATERIAL		1			1	1										
8320	LCKVd-Proc & Manuf. Elect Power sys (incl Excisi	180	20MAY05A	12JUN06	65	70	90	-24	-48	~							
8315	LCKVd-Proc & Manuf. Encl. Lgt sys (incl Excision	180	20JAN06A	18JUL06	20		80	-18	-78								
00.0			200/ 1100/ 1														
NTERF	ACE MILESTONES																
LCK VIA	DUCT NOISE ENCLOSURES 2&3 [CONTRACT]																
6734	LckVd-E&M Access for cabling to Noise Encl. 2&3	0	28APR06		0	0	0	120	0						\bigotimes_{n}		
6725	LckVd-E&M Access to Noise Encl. 2 & 3 Struct	0	28APR06		0	0	0	6	0								
0755		0	2041100		0	0	0	0	0						Û		
LCK VIA	DUCT NOISE ENCLOSURE 1 (Sec 15, Excision)			1			,										
8338	LckVd NE1 (Exc)-E&M Access for cabling frm E SPB	0	28APR06		0	0	0	126	0						\bigotimes_{n}		
0000			00400000		-			-							\diamond		
8339	LckVd NE1 (Exc) -E&M Access to N. Encl Struct	0	28APR06		0	0	0	60	0						Ŷ		
CONST			, 	l					I								
	DUCT NOISE ENCLOSURES 2&3 (Contract)																
	LckVd NE2&3 & But'fly Valley-Elect Works 1st Fix	72	28APR06	25JUL06	0	0	72	6	0								
			1	1	1	1	1	1	1	1							

Act.	Activity	Orig		Early	%	DWP %				DEC 27	JAN 28		FEB 29	MAR 30	APR 31	MAY 32	JUN 33
ID	Description	Dur	Start	Finish	Compl.	Compl.	Dur	Float	arly Finis	12 19 26	2 9 16	23 30 6	13 20	27 6 13 20 27	3 10 17 24	1 8 15 22 29	
BUTTE	RFLY VALLEY																
CONTR	ACT KEY DATES & MILESTONES																
AREA A	CCESS & VACATION DATES																
VCT_X	Release of Portions - X	0		22APR06	0	100	0	777	-258						\diamond		
																	L
CONST	RUCTION WORKS																
EARTH	VORKS & SLOPEWORKS																
SLOPE S	SP-S2 & SP-S3																
SLOPE ST	ABILISATION (SOIL NAILS, ROCK BOLTS ETC)																
1110	SP-S2/S3 Inst.Soil Nails & Test (97nr.w/3rig)	18	08SEP05A	10MAR06	0	100	17	61	-479								
		-			-	100											
3798	SP-S2/S3 hydro-seeding & tensar mat	24	11MAR06	08APR06	0	100	24	188	-479								
SLOPE E	81/-52	1	1		1		1										
	ON (SOFT & ROCK)																
	BV-S2/9 (South)Slope excvtn (rock & some soft)	83	05SEP05A	28FEB06	80	100	8	-153	-240								
2695	BV-S2/10 (South)Slope excvtn (rock & some soft)	22	20FEB06	16MAR06	0	100	22	-153	-221								
	ABILISATION (SOIL NAILS,ROCK BOLTS ETC) BV-S2/9 Inst.Rock bolts&Test (4nr.w/1.rig) D6/8	5	01DEC05A	24FEB06	60	100	5	-153	-239		<u>_</u>						
2034	DV-02/3 matricek bolisk rest (+m.w/ mg) D0/0	5	OTDEOUSA		00	100	5	-100	-200					-			
2691	BV-S2/8 Inst.Rock bolts & Test (60nr.w/3.rig)	22	01MAR06	25MAR06	0	100	22	175	-341								
2696	BV-S2/10 Row B3 Soil Nails & Test 39nr.w/2.rig	11	06MAR06	17MAR06	0	100	11	-153	-221								
	EDING & TENSAR MAT																├ ───
	BV-S2 Berm 8 hydro-seeding & tensar mat	12	20NOV05A	04MAR06	30	100	12	217	-225								
0000			20110 100/1	0 111/ 11 000	00	100		2	220								
3811	BV-S2 Berm 9 hydro-seeding & tensar mat	12	27MAR06	10APR06	0	100	12	175	-241								
3812	BV-S2 Berm 10 hydro-seeding & tensar mat	12	11APR06	27APR06	0	100	12	175	-226								
	DRAINAGE																
	BV-S2 Berm 7 Surface drainage	14	25APR05A	04MAR06	20	100	12	661	-334								
			20/11/10/07	0													
3695	BV-S2 Berm 8 Surface drainage	14	28NOV05A	04MAR06	50	100	12	177	-237								
	-																
3696	BV-S2 Berm 9 Surface drainage	14	06MAR06	21MAR06	0	100	14	177	-237								
2007	DV C2 Darm 10 Surface drainage	1.4		0740000	0	100	1.4	477	224								
3697	BV-S2 Berm 10 Surface drainage	14	22MAR06	07APR06	0	100	14	177	-224								
SLOPE E	3V-S3	1	I		1		I										
	EDING & TENSAR MAT																
	BV-S3 hydro-seeding & tensarmat to +41.0mPD	60	24DEC05A	27JAN06A	100	100	0		-281		 						

Act.	Activity	Orig	Early	Early	%	DWP %	Rem	Total	Variance	DEC		AN	FE		MAR		APR	MAY	JUN
ID	Description	Dur	Start	Finish		Compl.					2.9	28	30 6 1	9 3 20 (30	0 27 3	31 10 17 24	32 1 8 15 22 2	33 9 5 12
HYDRO-SE	EDING & TENSAR MAT																• <u>_</u> .		
3913	BV-S3 hydro-seeding & tensarmat to +56.0mPD	24	24DEC05A	04MAR06	0	100	12	217	-244										
														_					
SURFACE	DRAINAGE BV-S3 Slope Surface Drainage +56.0mPD	35	12 14 1064	24JAN06A	100	100	0	1	-241										
1904	5V-55 Slope Surface Drainage +50.0mrD	35	IJJANUUA	24JAN00A	100	100	0		-241										
SLOPE B	V-S4							1	1										
	BILISATION (SOIL NAILS, ROCK BOLTS ETC)																		
2352	BV-S4/4b Row A2/A3 Soil Nail & Test 28nr.w/2rig	13	11AUG05A	04MAR06	60	100	12	64	-524		.								
SLOPE FIN		40	0055000		0	100	40	50	407										
1139	11NW&434 BV-S4/1-2-3bcd-4b Hydro-seed/Tensarmat	18	20FEB06	11MAR06	0	100	18	58	-437										
2380	BV-S4/3a-4a & 5 hydro-seeding & tensarmat	12	13MAR06	25MAR06	0	100	12	58	-409	-						8 I I			
					Ŭ														
SURFACE	DRAINAGE			1															
3705	BV-S4/3 Surface Drainage	8	17MAR05A	21JAN06A	100	100	0		-506										
0700		40	00050054			400	40	0.1	400										
3706	BV-S4/4 Surface Drainage	12	20DEC05A	11MAR06	0	100	18	64	-429		1								
SLOPE S	P-91	1 1			1	1	1	1	1										
SURFACE																			
	Sp-S1/4 Surface Drainage	7	06JUL04A	27FEB06	40	100	7	222	-462						_				
	, ç																		
RC STRI	JCTURES																		
RETAINI	IG WALL BV-R1																		
CONCRET				I	-1	1	1	1	1										
1145	BV-R1(A) RC Base Slab ch.2+060	18	06JAN06A	28FEB06	75	100	8	-22	-222										
4447		10	40 14 100 4	07140 000	50	400		00	040	-									
1147	BV-R1(B) RC Base Slab ch.2+070 to B1(BP wall)	18	13JAN06A	07MAR06	50	100	14	-28	-216										
1146	BV-R1(A) RC Ret.Wall ch.2+060	18	13FEB06A	07MAR06	10	100	14	-10	-222	-									
			101 2200/1	01112 1100															
1143	BV-R1(C) Pile Capping Beam	18	01MAR06	21MAR06	0	100	18	-22	-171					1					
										-									
1148	BV-R1(B) RC Ret.Wall ch.2+070 to B1(BP wall)	18	08MAR06	28MAR06	0	100	18	-28	-219										
1100	BV-R1(C) Extend BP Wall	10	22MAR06	12APR06	0	100	10	-22	-171					_					
1160	BV-RI(C) Exterid BP Wall	18	ZZIVIARUO	12APR06	0	100	18	-22	-171						-				
EXCAVATION	DN (SOFT & ROCK)	1 1		I	1	1	1	1	1										
I I I I I I I I I I I I I I I I I I I	BV-R1 Excavation (BV-S2/8 rock)	61	23JUL05A	11MAR06	0	100	18	655	-269					_					
														_					
FINISHES	DV D4(C) Wall Finishes to DD M-II	4-	40400000	041443/000	0	100	45	74	474	-									
1144	BV-R1(C) Wall Finishes to BP Wall	15	13APR06	04MAY06	0	100	15	74	-171										
1150	BV-R1 Wall finishes	60	06MAY06	17JUL06	0		60	74	-171	1									
					Ū														
		_ . _																	

Act.	Activity	Orig	Early	Early	%	DWP %	Rem	Total	Variance	DEC	JAN		FEB	MAR	APR	MAY	JUN
ID	Description	Dur		Finish	Compl.	Compl.	Dur	Float	arly Finis	27 12 19 26	28 2 9 16 2:	3 ,30 ,6	29 13 20	30 27 6 13 20 2	31 27 3 10 17 24	32 1 8 15 22 2	33 29 5 12
RETAINI	NG WALL BV-R2	·	,														
	E WORKS		T	ſ	T	1	1										
1116	BV-R2 (7) Capping Beam and wall	30	13DEC05A	17FEB06A	100	100	0		-310								
4447			44144 500	1010000	-	400	00	04	000					[-]			
1117	BV-R2 (8) Capping Beam and wall	30	11MAR06	19APR06	0	100	30	61	-328					L			
FINISHES																	
1123	BV-R2 Wall finishes	60	06MAY06	17JUL06	0	100	60	61	-298	1							
BACKFILL		00	074 00054	0555000	-	100	0	74	045					_			
1122	BV-R2(A&B) Granular Drain & Compacted Backfill	36	07APR05A	25FEB06	5	100	6	74	-215								
1126	BV-R2(C) Granular Drain & Compacted Backfill	6	20APR06	26APR06	0	100	6	111	0]	
		Ũ	20/ 11/00	20/ 11 1100	Ū				0								
STEPPE	D CHANNEL & BOX CULVERT																
CONCRET	E WORKS		1				1										
1911	Box culvert bays (32to43) ch.2+010 to 2+110	55	20SEP05A	27MAR06	50	100	31	-203	-251				_				
													_				
1	IEADWALLS																
INLET HE	Inlet headwall ch.1+830	66	16FEB06A	06MAY06	5	100	60	169	-347								
5151	inet neatwait ch. 17050	00		00007100	5	100	00	103	-047								
3715	Inlet headwall @SP-S2/3	30	11MAR06	19APR06	0	100	30	182	-491								
3796	Inlet headwall ch.1+810	66	17MAR06	09JUN06	0	100	66	141	-375								
WSD WO																	
	MAIN DIVERSION				100	400						_					
1929	Inst.900.dia pipe (incl.thrust blocks) westside	90	19JUL05A	25JAN06A	100	100	0		-339								
1174	Inst.DN900 pipe (incl.thrust blocks) to BV-S4	66	01AUG05A	25JAN06A	100	100	0		-357								
		00	01110000011	200/ 1100/ 1	100	100	Ŭ		001								
3163	DN900 main clean/pressure test & WSD approve	54	26JAN06A	13FEB06A	100	100	0		-375								
1175	DN900 connection by WSD	12	20FEB06	03MAR06	0	100	12	-72	-447				-				
1176	DN900 WSD Diversion Implemented	0		03MAR06	0	100	0	-72	202	-							
1170	Diversion implemented	0		USIVIARUO	0	100	0	-72	-393								
WSD 2x6	500 MAIN DIVERSION	1	1	1	1	1	1	1 1									
-	Inst.2xDN600 WSD Pipe down BV-S2/6-7	90	21JUL05A	22APR06	70	100	50	56	-346								
	······································																
1165	Construct DN600 pipe tunnel	66	26SEP05A	10FEB06A	100	100	0		-280								
1167	Inst.DN600 WSD Pipe along BV-S2/8 (CH140>200)	40	31OCT05A	16MAR06	0	100	22	18	-113				-				
1164	Inst DN600 W/SD Ripe in Ripe Tunnel	10	29NOV05A	23 14 106 4	100	100	0		-235								
1104	Inst.DN600 WSD Pipe in Pipe Tunnel	10	ZEINOVUSA	ZJANUOA	100	100			-200								
			1	I	I	I	I]							1

1163 Inst. 1166 Constant 3791 DN6 WSD 200 MA 2338 Inst. 2340 DN2 3164 DN2 2341 DN2 TERRAIN MI MV-	tt.DN200 pipe (incl.thrust blocks) to BV-S4 I200 connection by WSD I200 main clean/pressure test & WSD approve I200 WSD Diversion Implemented MITIGATION -S2	Dur 30 30 40 12 54 0	Start 20FEB06 16MAR06 25APR06 03OCT05A 25MAR06 06APR06	Finish 25MAR06 24APR06 03JUN06 31MAR06 05APR06 29MAY06	0 0 0 0 20 0	Compl. 100 100 100 100 100	Dur 30 30 40 35 12	Float 29 29 36 -98	-209 -371 -215 -412	<u>12</u> ,19,26	28 ,2 9 16 23	30 <u>6</u>	29 13 20 	30 27 6 13 20		32 24 1 8 15 22	29 5 12
1163 Inst. 1166 Constant 3791 DN6 WSD 200 MA 2338 Inst. 2340 DN2 3164 DN2 2341 DN2 TERRAIN MI MV-	tt.DN600 WSD Pipe along BV-S2/8 (CH140>45) Instruct DN600 Pipe Bridge 'D' (CH225>280) I600 main clean/pressure test & WSD approve AIN It.DN200 pipe (incl.thrust blocks) to BV-S4 I200 connection by WSD I200 main clean/pressure test & WSD approve I200 WSD Diversion Implemented MITIGATION -S2	30 40 60 12 54	16MAR06 25APR06 03OCT05A 25MAR06	24APR06 03JUN06 31MAR06 05APR06	0 0 20 0	100 100 100	30 40 35	29 36	-371 -215								
1166 Cons 3791 DN6 WSD 200 MA 2338 Inst. 2340 DN2 3164 DN2 2341 DN2 TERRAIN MI MVS	Instruct DN600 Pipe Bridge 'D' (CH225>280) I600 main clean/pressure test & WSD approve AIN It.DN200 pipe (incl.thrust blocks) to BV-S4 I200 connection by WSD I200 main clean/pressure test & WSD approve I200 WSD Diversion Implemented IITIGATION -S2	30 40 60 12 54	16MAR06 25APR06 03OCT05A 25MAR06	24APR06 03JUN06 31MAR06 05APR06	0 0 20 0	100 100 100	30 40 35	29 36	-371 -215								
3791 DN6 WSD 200 MA 2338 Inst. 2340 DN2 3164 DN2 2341 DN2 TERRAIN MI MV-	AIN AIN AIN AIN AIN AIN AIN AIN	40 60 12 54	25APR06 03OCT05A 25MAR06	03JUN06 31MAR06 05APR06	0 20 0	100	40	36	-215								
WSD 200 MA 2338 Inst. 2340 DN2 3164 DN2 2341 DN2 TERRAIN MI MM - BV-S	AIN tt.DN200 pipe (incl.thrust blocks) to BV-S4 1200 connection by WSD 1200 main clean/pressure test & WSD approve 1200 WSD Diversion Implemented MITIGATION -S2	60 12 54	03OCT05A 25MAR06	31MAR06 05APR06	20	100	35										
WSD 200 MA 2338 Inst. 2340 DN2 3164 DN2 2341 DN2 TERRAIN MI MM - BV-S	AIN tt.DN200 pipe (incl.thrust blocks) to BV-S4 1200 connection by WSD 1200 main clean/pressure test & WSD approve 1200 WSD Diversion Implemented MITIGATION -S2	60 12 54	03OCT05A 25MAR06	31MAR06 05APR06	20	100	35										
2338 Inst. 2340 DN2 3164 DN2 2341 DN2 TERRAIN MI NTMM - BV-S	tt.DN200 pipe (incl.thrust blocks) to BV-S4 I200 connection by WSD I200 main clean/pressure test & WSD approve I200 WSD Diversion Implemented MITIGATION -S2	12 54	25MAR06	05APR06	0			-98	-412						-		
2340 DN2 3164 DN2 2341 DN2 TERRAIN MI NTMM - BV-S	I200 connection by WSD I200 main clean/pressure test & WSD approve I200 WSD Diversion Implemented IITIGATION -S2	12 54	25MAR06	05APR06	0			-98	-412								
3164 DN2 2341 DN2 TERRAIN MI NTMM - BV-S	I200 main clean/pressure test & WSD approve I200 WSD Diversion Implemented IITIGATION -S2	54				100	12				1						
3164 DN2 2341 DN2 TERRAIN MI NTMM - BV-S	I200 main clean/pressure test & WSD approve I200 WSD Diversion Implemented IITIGATION -S2	54				100	12										
2341 DN2 TERRAIN MI NTMM - BV-S	I200 WSD Diversion Implemented ITIGATION -S2		06APR06	29MAY06	•		12	-126	-515								
TERRAIN MI NTMM - BV-S	MITIGATION -S2	0			0	100	54	-126	-515								
TERRAIN MI NTMM - BV-S	MITIGATION -S2	0															
NTMM - BV-S	-82			29MAY06	0		0	-126	-515								•
NTMM - BV-S	-82																
	MM - Constr.Peforated Drain Channel	24	11JUL05A	04MAR06	80	100	12	-153	-323								
2350 NTM	MM - Afforestation of Area	60	15MAR06	30MAY06	0	100	60	149	-331								at in the second se
NTMM - CUL	IVERT 'A'						1	II									
CONCRETE WO																	
2388 Culv	lvert 'A' - Constr.Culvert 'A' Ch.2+140	18	13FEB06A	09MAR06	0	100	16	149	-210								
	SATION (SOIL NAILS, ROCK BOLTS ETC)												_				
	Ivert 'A' - excavate gabion benches Ch.2+140	4	10MAR06	14MAR06	0	100	4	149	-236								
	ç																
FINISHES	lvert 'A' - place gabions Ch.2+140	4	15MAR06	18MAR06	0	100	4	649	-236								
2307 Cuiv	IVEIT A - Place gabions Ch.2+140	4	ISMARUO	TOWARUU	0	100	4	049	-230								
RECREATE	ED STREAM																
3808 Reci	created stream DN525 pipe (east) ch.1+740	18	20FEB06	11MAR06	0	100	18	-26	-510				.				
					-	400			100								
1927 Reci	created stream (east) ch.1+720 to 2+010	64	03APR06	23JUN06	0	100	64	-44	-182								*********
3809 Rec	created stream pond [east) ch.1+880	36	12MAY06*	23JUN06	0	100	36	-44	-182								
3810 Recr	created stream pond [east) ch.1+920	36	12MAY06	23JUN06	0	100	36	129	-182								
	WORKS - NOISE BARRIERS & ENCLOSURES				1		- I					_					
NOISE BARR																	
	Barrier.FndsRC Base (C2) 7m	58	10JAN06A	10APR06	5	100	42	-76	-180								
	/				-			-									

	Description		Early	Early	%	DVVP %			Variance	DEC 27	JAN 28		FEB 29	MAR 30	APR 31	MAY 32	JUN 33
	Booonprion	Dur	Start	Finish	Compl.	Compl.	Dur	Float	arly Finis	12 19 26	28 29 16	23 30	29 5 13 20	27 6 13 20 27			
	EMI-ENCLOSURE [SB)																
2739	SB Semi-Encl.Fnds RC Base (C3,C4,I2) Type B	51	14DEC05A	07APR06	10	100	40	-223	-288								
2735	SB Semi-Encl.Fnds RC Base (C4) Type D	23	20FEB06	17MAR06	0	100	23	-206	-285								
2737	SB Semi-Encl.Fnds RC Base (I2) Type E	14	20FEB06	07MAR06	0	100	14	-197	-262								
2733 :	SB Semi-Encl.Fnds RC Base (C3) Type C	20	15MAR06	07APR06	0	100	20	-223	-326								
SB/NB R	OADWORKS & FINISHES		ľ														
ROADS	- FORMATION																
FILLING																	
1103	BV Compact.Fill to Form.ch.1+920 to 2+020	84	14JUN04A	11MAR06	90	100	18	-201	-305								
1102	BV Compact.Fill to Form.ch.2+020 - 2+200	48	11AUG04A	11MAR06	90	100	18	-201	-341								
2732	BV Compact.Fill to Form.ch.1+860 to 1+920	78	03OCT05A	25MAR06	90	100	30	-154	-275								
DRAINAGE	Ξ		Π		1	1											
2381	SB/NB Sth.Appr.Rd.Drainage ch.2+030 - 2+200	114	03JAN06A	29APR06	8	100	56	-204	-265				_				
2727	BV.Appr.Rd.Drainage ch.1+780 to 1+920	62	20FEB06	09MAY06	0	100	62	-162	-245				•				
1178	BV.Appr.Rd.Drainage ch.1+920 to 1+960	44	06MAR06	29APR06	0	100	44	-174	-299								
2726	SB/NB Sth.Appr.Rd.Drain Testing ch.2+030 - 2+200	42	29MAR06	23MAY06	0	100	42	-204	-265								
2721	BV.Appr.Rd.Drain Testing ch.1+920 to 1+960	30	02MAY06	07JUN06	0	100	30	28	-299								
2728	BV.Appr.Rd.Drain Testing ch.1+860 to 1+920	36	10MAY06	21JUN06	0		36	66	-245								
SURFACIN	١G					1											
2383	SB/NB Sth.Appr.Rd.Surf.(Type I) ch.2+020 - 2+200	89	24MAY06	06SEP06	0		89	-204	-232								
ROADS -	FINISHES																
2742	TCSS Ducts NB & SB Carriageway ch.1+800 to 1+900	90	06APR06	27JUL06	0	100	90	-162	-221								
2717	BV CLP Inst.HV cable duct to SP	60	08APR06	23JUN06	0	100	60	-156	-258					dwg 281	0A		
1253	TCSS Ducts NB & SB Carriageway ch.1+920 to 2+200	90	24APR06	10AUG06	0		90	-174	-259								
KIOSKS		1			1												
KIOSK 3																	
2260	Kiosk K3 - Substructure	9	24MAY06	03JUN06	0		9	56	-265								

Act.	Activity	Orig	Early	Early	%	DWP %	Rem	Total	Variance	DEC	JA		FEE		MAR	APR	MAY	JUN
ID	Description	Dur	Start	Finish	Compl.	Compl.	Dur	Float	arly Finis	27 12 19 26	28 2 9 1	6 23 30	29 6 13	20 2	30 7 ₁ 6 ₁ 13 ₁ 20 ₁ 27	31 3 10 17 24	32 1 8 15 2	33 2 29 5 12
EVA RC	ADWORKS & FINISHES																	
	ST SIDE) EVA ROADWORKS																	
FILLING	DV/ Fill Terms covered over the 2 · 000	12	20FEB06	04MAR06	0	100	10	50	-182									
1980	BV Fill Temp.covered culvert ch.2+000	12	20FEB00	U4IVIARUO	0	100	12	-52	-182									
2378	BV Fill to Formation (east) ch.1+840 - 1+980	24	06MAR06	01APR06	0	100	24	-52	-182									
DRAINAG																		
1979	SB EVA rd.drainage (east) ch.2+000 to 2+200	31	11APR05A	04MAR06	75	100	12	74	-190					T				
1978	SB EVA rd.drain testing (east) ch.2+000 to 2+200	18	06MAR06	25MAR06	0	100	18	74	-190									
NB (WE	STSIDE) EVA ROADWORKS																	
	Granular Drain & Comp.B/Fill to BV-R1 Wall	36	29MAR06	16MAY06	0	100	36	-28	-177									
DRAINAG	E	I			1			1 1						-				
2730	NB EVA Rd.Drainage (west) ch.2+020 to 2+190	31	17MAY06	22JUN06	0		31	-28	-159									
EXCISIO	N WORK-SHEK LEI PUI WATER TREATMENT F	PLANT			1		I											
	Soilid Barrier Type II - Cladding	30	20FEB06*	25MAR06	0	100	30	-152	-297					•				
2752	Soilid Barrier Type I - Cladding	18	20FEB06	11MAR06	0	100	18	-146	-267					•				
2753	Soilid Barrier Type III - Cladding	24	20FEB06	18MAR06	0	100	24	-146	-249					•				
2754	Soilid Barrier Type IV - Cladding	18	20FEB06	11MAR06	0	100	18	-140	-225					•				
TARG1	Target Date WTW - complete	0		25MAR06	0	100	0	-191	-294						•			
ENT SC	OUTH PORTAL VENTILATION BUILDING	3					1											
SUBMI	TTALS & APPROVALS																	
E&M EQ	QPT.& MATERIAL.SUBMITTALS																	
8201	EntSpBldg-Sub.MVAC MCC, power & control sys	54	02JUL04A	02MAR06	95	100	10	-132	-289					t				
8212	EntSpBldg-Sub.FS AFA & FM200 sys	54	05JUL04A	24FEB06	99	100	5	-17	-150					-				
8207	EntSpBldg-Sub.FS wet sys	54	05AUG04A	24FEB06	99	100	5	-44	-273					-				
8208	EntSpBldg-Sub.MVAC / TVF pneumatic sys	54	14AUG04A	02MAR06	95	50	10	-58	-100			-		$\frac{1}{1}$				
8200	EntSpBldg-Sub.CMCS & ELV sys	78	26AUG04A	08MAR06	98	100	15	-108	-249					╧				
8205	EntSpBldg-Sub.PD irrig. sys	54	04FEB05A	09MAR06	85	100	16	-80	-290					+				
		[<u> </u>							<u> </u>			1	<u> </u>	1	1	

Act.	Activity	Orig	Early	Early	%		Pom	Total	Variance	DEC	JAN		FEB	MAR	APR	MAY	JUN
ID	Description	Dur		Finish		Compl.	Dur	Float	arly Finis	27	28 2 9 16	23 30 6	29 13 20	30 27 6 13 20	31 27 3 10 17 24	32 1 8 15 22 2	33
	PT.& MATERIAL.SUBMITTALS	1			1	1	1	1	, ,	12 13 20		23 50 0	13 20				5 5 12
	SP.Bldg Prep & submit door & window detail	24	17FEB05A	14FEB06A	100	100	0		-206								
E&M EG	PT.& MATERIAL APPROVALS																
8491	EntSpBldg-App. building related luminaires	18	18AUG04A	24FEB06	90	100	5	-13	-222								
	Fat0-Dide Ann. 50 wet ave	10	04050044	00144 D00	00	400	10	14	000					_			
6006	EntSpBldg-App. FS wet sys	18	04SEP04A	02MAR06	80	100	10	-44	-260								
6036	EntSpBldg-App. FS AFA & FM200 sys	18	14SEP04A	01MAR06	85	100	9	-17	-136								
6192	EntSpBldg-App. of CMCS & ELV sys	18	20SEP04A	24FEB06	88	100	5	-108	-221								
6005	Enterpling Ann MV/AC mach yent ave	10	23SEP04A	02MAR06	80	100	10	-102	-223					-			
6005	EntSpBldg-App. MVAC mech.vent. sys	10	233EP04A	UZIVIARUO	80	100	10	-102	-223								
6003	EntSpBldg-App. PD cleans. & flush water sys	18	04NOV04A	01MAR06	85	100	9	-41	-265								
6742	EntSpBldg-App. MVAC MCC, power & control sys	18	12NOV04A	02MAR06	80	100	10	-132	-271				_	_			
7615	EntSpBldg-App. HV/LV main & submain cable sys	10	07DEC04A	02MAR06	80	100	10	-16	-238								
7015	Encopping-App. HV/LV main & submain cable sys	10	07DEC04A	UZIVIARUU	80	100	10	-10	-230					—			
6750	EntSpBldg-App. MVAC / TVF pneumatic sys	18	07MAR05A	16MAY06	80		10	-106	-140								
1939	SP.Bldg Approve louvre details	24	07APR05A	04MAR06	50	100	12	-86	-258								
6004	EntSpBldg-App. PD irrig. sys	10	05MAY05A	11MAR06	30	100	18	-80	-274								
6004	Encopping-App. PD ing. sys	10	USIVIATUSA	TIMARUO	30	100	10	-00	-274								
1919	SP.Bldg Approve door & window details	24	07MAY05A	04MAR06	50	100	12	-56	-198								
1947	SP.Bldg Approve slate cladding design	24	15JUN05A	04MAR06	50	100	12	-86	-258				_				
1045	SD Bldg Approve fell errest system	24	14007054	14FEB06A	100	100	0		-128								
1945	SP.Bldg Approve fall arrest system	24	14OCT05A	14FEBU6A	100	100	0		-128								
1943	SP.Bldg Approve aluminium cladding	24	13DEC05A	04MAR06	0	100	12	-86	-258		I						
1941	SP.Bldg Approve balustrade & metal works	24	10JAN06A	13FEB06A	100	100	0		-239								
DD OOU																	
	REMENT - MATERIAL	100			10	400	50	450	404								
6008	EntSpBldg-Proc & Manuf. LV power dist. equip't	180	20MAR05A	08JUL06	40	100	50	-156	-184								
6007	EntSpBldg-Proc. & Manuf. of HV dist. equip't	180	25MAR05A	08JUL06	90	100	30	-168	-208								
			2011/11/00/1	0000100					200								
6079	EntSpBldg-Proc & Manuf. FS AFA & FM200 sys	120	25MAR05A	28JUL06	40	90	90	-47	-136		1		_				
			0=144=	00 W 65									·				
6193	EntSpBldg-Proc. & Manuf. of CMCS & ELV sys	180	25MAR05A	29JUL06	20	100	130	-108	-166				-				
6743	EntSpBldg-Proc & Manuf. MCC, power & control sys	180	25MAR05A	29JUL06	20	100	130	-132	-211								
0,40		100	_0.00A	2000200	20			102									

Act.	Activity	Orig	Early	Early	%	DWP %	Rem	Total	Variance	DEC 27	JAN 28	FEB 29		MAR 30	APR 31	MAY 32	JU
ID	Description	Dur	Start	Finish	Compl.	Compl.	Dur	Float	arly Finis	12 19 26	2 9 16 23	30 ₆ 13	20 <mark>2</mark> 7	30 7 6 13 20 27	3 ₁ 10 17 24	1 <mark>8 15 22</mark> 2	29 5
	REMENT - MATERIAL					1											
7616	EntSpBldg-Proc & Manuf. HV/LV cable	180	20MAY05A	01AUG06	65	100	63	-138	-180								
6012	EntSpBldg-Proc & Manuf. FS wet sys	120	06JUN05A	05JUN06	30	100	84	-44	-214								
6761	EntSpBldg-Proc & Manuf. TVF,Ductwks & Cont'l sys	180	09JUN05A	04JUL06	40	100	108	-74	-156								
6010	EntSpBldg-Proc & Manuf. Cleans & flush water sys	120	30SEP05A	22JUN06	10	100	90	-41	-235								
8492	EntSpBldg-Proc & Manf bldg related luminaires	180	23NOV05A	22JUN06	90	100	30	-77	-136								
6035	EntSpBldg-Proc & Manuf. MVAC Package AC Units	120	11JAN06A	21SEP06	10		90	-82	-140						•		
6009	EntSpBldg-Proc & Manuf. MVAC mech.vent. sys	120	03MAR06	29JUL06	0	100	120	-102	-223								
6011	EntSpBldg-Proc & Manuf. PD irrig. sys	120	13MAR06	08AUG06	0	100	120	-80	-274								
6751	EntSpBldg-Proc & Manuf. MVAC / TVF pneumatic sys	120	17MAY06	06OCT06	0		120	-106	-140								
BWF	WORKS																
1951	SP.Bldg Procure aluminium cladding	180	19APR05A	04MAR06	80	100	12	-86	-78								
2030	SP.Bldg Initial deliver balust & metal works	0	07MAR06		0	100	0	-27	0					•			
1977	SP.Bldg Initial deliver doors & windows	0	11APR06		0		0	-56	0						•		
2018	SP.Bldg Initial deliver fall arrest system	0	02MAY06		0		0	-16	0							•	
2017	SP.Bldg Initial delivery louvres	0	22MAY06		0		0	-86	0							•	
2019	SP.Bldg Initial deliver slate cladding	0	22MAY06		0		0	-86	0							•	
2029	SP.Bldg Initial deliver aluminium cladding	0	22MAY06		0		0	-86	0							•	
AJOR	EQUIPMENT DELIVERY																
7617	EntSpBldg-Del. HV/LV main & submain cable	48	20FEB06A	02SEP06	50		22	-138	-160								
	CCESS DATES																
	PORTAL BUILDING																
1817	Int M/S - ENT SPB - E&M access - G/F	0		28MAR06	0		0	-46	-138					•			
6023	EntSpBldg-E&M access to G/F	0	29MAR06*		0		0	-46	-138					•			
1838	Int M/S - ENT SPB - E&M access - 1/F	0		04APR06	0		0	-58	-138						•		

ID Description Dur Start Finish Compl. Dorr Plots Dur Dur <th>Act.</th> <th>Activity</th> <th>Orig</th> <th>Early</th> <th>Early</th> <th>%</th> <th>DWP %</th> <th>Rem</th> <th>Total</th> <th>Variance</th> <th>DEC</th> <th>JA</th> <th></th> <th>FEB</th> <th>1</th> <th>MAR</th> <th>APR</th> <th>MAY</th> <th>JUN</th>	Act.	Activity	Orig	Early	Early	%	DWP %	Rem	Total	Variance	DEC	JA		FEB	1	MAR	APR	MAY	JUN
SOUTH PORTAL BUILDING 6025 EmSpBildg-E&M access to 1/F 0 06APR06' 0 0 -58 -138 1839 Int MS - ENT SPB - E&M access - 2/F (partial) 0 29APR06' 0 0 -118 -140 4001 Int MS - ENT SPB - E&M access - 2/F (full) 0 29APR06' 0 0 617 -106 6021 EntSpBildg-E&M access - 3/F (partial) 0 0 0 0 118 -140 1840 Int MS - ENT SPB - E&M access - 3/F (partial) 0 0 0 0 118 -140 1840 Int MS - ENT SPB - E&M access - 3/F (partial) 0 0 0 0 117 -136 6015 EntSpBildg-E&M access - 3/F (partial access) 0 09MAY06 0 0 117 -136 SUPERSTRUCTION Superstructure No Construction Superstructure In 6 APR06' 0 100 100 0 -133 119	ID	Description	U U		Finish	Compl.					27 12 19 26	29	8 16 µ23 µ3	29 0 6 13	20 2	30 7 6 13 20 27	31 3 10 17 24	32 1 8 15 22 2	33 9 5 12
1339 Int MS - ENT SPB - E&M access - 2/F (partial) 0 29APR06 0 0 -118 -140 4001 Int MS - ENT SPB - E&M access - 2/F (tuil) 0 29APR06 0 0 617 -106 6021 EntSpBidg-E&M access to 2/F (partial access) 0 02MAY06* 0 0 -117 -136 1840 Int MS - ENT SPB - E&M access - 3/F (partial) 0 02MAY06* 0 0 -117 -136 4002 Int MS - ENT SPB - E&M access - 3/F (partial) 0 02MAY06* 0 0 -117 -136 4002 Int MS - ENT SPB - E&M access - 3/F (partial access) 0 09MAY06* 0 0 -117 -136 6015 EntSpBidg-E&M access - 3/F (partial access) 0 09MAY06 0 -117 -136 SUPERSTRUCTURE No Carentaccess -3/F (partial access) 0 12DEC05A 15FEB06A 100 100 -113 -117 -136 No Carentaccess -3/F (partial access) 2 12DEC05A 15FEB06A 100 10 10 -133 <td>SOUTH</td> <td>PORTAL BUILDING</td> <td></td>	SOUTH	PORTAL BUILDING																	
4001 Int MS - ENT SPB - E&M access - 2/F (full) 0 29APR06* 0 0 617 -106 6021 EntSpBidg-E&M access to 2/F (partial access) 0 02MAY06* 0 0 -118 -140 1340 Int M/S - ENT SPB - E&M access - 3/F (partial) 0 08MAY06 0 0 -117 -136 4002 Int M/S - ENT SPB - E&M access - 3/F (full) 0 08MAY06* 0 0 612 -38 6015 EntSpBidg-E&M access to 3/F (partial access) 0 09MAY06* 0 0 -117 -136 CONSTRUCTION SUPERSTRUCTURE NB CARRIAGEWAY & CENTRAL RESERVE 1196 SP.Bidg - RC Cols.& Walls to 2FL GL H-S/10-12 18 30DEC05A 21FEB06 100 100 -133 1192 SP.Bidg - RC Cols.& Walls to 3.FL GL H-T/7-3 18 22FEB06 14MAR06 100 10 117 -164 1199 SP.Bidg RC Cols.& Walls to 3.FL GL H-T/7-3 18 24MAR06 18APR06 100 12 -117 -164 1199 SP.Bidg RC Cols. & Walls to 4FL GL H-	6025	EntSpBldg-E&M access to 1/F	0	06APR06*		0		0	-58	-138							•		
6021 EntSpBidg-E&M access to 2/F (partial access) 0 02MAY06* 0 0 -118 -140 1840 Int M/S - ENT SPB - E&M access - 3/F (partial) 0 08MAY06* 0 0 -117 -136 4002 Int M/S - ENT SPB - E&M access - 3/F (full) 0 08MAY06* 0 0 612 -88 6015 EntSpBidg-E&M access to 3/F (partial access) 0 09MAY06 0 0 -117 -136 CONSTRUCTION SUPERSTRUCTURE NO ARRIAGEWAY A CENTRAL RESERVE 1196 SP.Bidg - RC Trans Slab 2FL.480.45mPD GL.H-S/2-7 20 12DEC05A 15FEB06A 100 100 0 -133 1192 SP.Bidg - RC Cois.& Walls to 3.FL.GL.H-T/7-3 18 22FEB06 1400 100 12 -117 -164 1199 SP.Bidg - RC Cois.& Walls to 3.FL.GL.H-T/7-3 18 22FEB06 0 100 18 -117 -138 1199 SP.Bidg - RC S/Slab JEL-487.40mPD GL.H-T/7-3 18 24MAR06 0 100 18 -117 -138 1199	1839	Int M/S - ENT SPB - E&M access - 2/F (partial)	0		29APR06	0		0	-118	-140							•		
1840 Int M/S - ENT SPB - E&M access - 3/F (partial) 0 08MAY06 0 0 -117 -136 4002 Int M/S - ENT SPB - E&M access - 3/F (full) 0 08MAY06* 0 0 612 -88 6015 Ent/SpBidg-E&M access to 3/F (partial access) 0 09MAY06 0 0 117 -136 CONSTRUCTION SUPERSTRUCTURE RC WORKS 1196 SP.Bidg - RC Trans Siab 2FL+80.45mPD GL.H-S/2-7 20 12DEC05A 15FEB06A 100 10 -1133 1192 SP.Bidg - RC Cols.& Walls to 3.FL.GL.H-S/10-12 18 30DEC05A 21FEB06 70 100 2 -117 -164 1197 SP.Bidg RC Cols.& Walls to 3.FL.GL.H-T/7-3 18 22FEB06 14MAR06 0 100 18 -117 -136 1198 SP.Bidg RC Cols.& Walls to 3.FL.GL.H-T/7-3 18 24MAR06 18APR06 0 100 18 -117 -138 1199 SP.Bidg RC Cols. & Walls to 4FL.GL.H-T/7-3 18 24MAR06 18APR06 0 100 18	4001	Int M/S - ENT SPB - E&M access - 2/F (full)	0		29APR06*	0		0	617	-106	,						<	>	
4002 Int M/S - ENT SPB - E&M access - 3/F (full) 0 08MAY06* 0 0 612 -88 6015 EntSpBidg-E&M access to 3/F (partial access) 0 09MAY06 0 0 -117 -136 CONSTRUCTION SUPERSTRUCTURE Nº CARRIAGEWAY & CENTRAL RESERVE 1196 SP.Bidg - RC Trans Slab 2FL.+80.45mPD GL.H-S/2-7 20 12DEC05A 15FEB06A 100 0 -133 1192 SP.Bidg - RC Cols.& Walls to 2FL.GL.H-S/10-12 18 30DEC05A 21FEB06 70 100 2 -117 -164 1193 SP.Bidg RC Cols.& Walls to 3.FL.GL.H-T/7-3 18 22FEB06 14MAR06 0 100 18 -117 -138 1199 SP.Bidg RC S/Slab JZ FL.+81.15mPD GL.H-T/7-3 18 24MAR06 18APR06 0 100 18 -117 -138 1200 SP.Bidg RC Cols. & Walls to 4FL.GL.H-T/7-3 18 06APR06 29APR06 0 100 18 -134 1201 SP.Bidg RC S/Slab 4FL.+95.30mPD GL.H-T/7-3 18 21APR06 13MAY06 18	6021	EntSpBldg-E&M access to 2/F (partial access)	0	02MAY06*		0		0	-118	-140							•	•	
Borne Borne <th< td=""><td>1840</td><td>Int M/S - ENT SPB - E&M access - 3/F (partial)</td><td>0</td><td></td><td>08MAY06</td><td>0</td><td></td><td>0</td><td>-117</td><td>-136</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>•</td><td></td></th<>	1840	Int M/S - ENT SPB - E&M access - 3/F (partial)	0		08MAY06	0		0	-117	-136								•	
CONSTRUCTION SUPERSTRUCTURE RC WORKS NB CARRIAGEWAY & CENTRAL RESERVE 1196 SP.Bldg RC Trans Slab 2FL.+80.45mPD GL.H-S/2-7 20 12DEC05A 15FEB06A 100 0 -133 1192 SP.Bldg RC Cols.& Walls to 2FL.GL.H-S/10-12 18 30DEC05A 21FEB06 70 100 2 -117 -164 1197 SP.Bldg RC Cols.& Walls to 3.FL.GL.H-T/7-3 18 22FEB06 14MAR06 0 100 18 -117 -140 1198 SP.Bldg RC S/Slab U2 FL.+81.15mPD GL.H-T/7-3 12 13MAR06 25MAR06 0 100 12 -117 -138 1199 SP.Bldg RC S/Slab 3FL.+87.40mPD GL.H-T/7-3 18 24MAR06 18APR06 0 100 18 -117 -136 1200 SP.Bldg RC S/Slab 4FL.+95.30mPD GL.H-T/7-3 18 21APR06 0 100 18 -134 1201 SP.Bldg RC S/Slab 4FL.+95.30mPD GL.H-T/7-3 18 21APR06 13MAY06 0 18 -80 -132	4002	Int M/S - ENT SPB - E&M access - 3/F (full)	0		08MAY06*	0		0	612	-88		Û						\diamond	
SUPERSTRUCTURE RC WORKS NB CARRIAGEWAY & CENTRAL RESERVE 1196 SP.Bldg - RC Trans Slab 2FL.+80.45mPD GL.H-S/2-7 20 12DEC05A 15FEB06A 100 100 0 -133 1192 SP.Bldg RC Cols.& Walls to 2FL.GL.H-S/10-12 18 30DEC05A 21FEB06 70 100 2 -117 -164 1197 SP.Bldg RC Cols.& Walls to 3.FL.GL.H-T/7-3 18 22FEB06 14MAR06 0 100 18 -117 -164 1198 SP.Bldg RC S/Slab U2 FL.+81.15mPD GL.H-T/7-3 18 22FEB06 14MAR06 0 100 18 -117 -138 1199 SP.Bldg RC S/Slab J3 FL.+87.40mPD GL.H-T/7-3 18 24MAR06 18APR06 0 100 18 -117 -136 1200 SP.Bldg RC Cols. & Walls to 4FL.GL.H-T/7-3 18 06APR06 29APR06 0 100 18 -132 1201 SP.Bldg RC S/Slab 4FL.+95.30mPD GL.H-T/7-3 18 21APR06 13MAY06 0 18 -132	6015	EntSpBldg-E&M access to 3/F (partial access)	0	09MAY06		0		0	-117	-136								•	
RC WORKS NB CARRIAGEWAY & CENTRAL RESERVE 1196 SP.Bidg RC Trans Slab 2FL.+80.45mPD GL.H-S/2-7 20 12DEC05A 15FEB06A 100 100 0 -133 1192 SP.Bidg RC Cols.& Walls to 2FL.GL.H-S/10-12 18 30DEC05A 21FEB06 70 100 2 -117 -164 1197 SP.Bidg RC Cols.& Walls to 3.FL.GL.H-T/7-3 18 22FEB06 14MAR06 0 100 18 -117 -140 1198 SP.Bidg RC S/Slab U2 FL.+81.15mPD GL.H-T/7-3 12 13MAR06 25MAR06 0 100 12 -117 -138 1199 SP.Bidg RC S/Slab JFL.+87.40mPD GL.H-T/7-3 18 24MAR06 18APR06 0 100 18 -117 -136 1200 SP.Bidg RC Cols. & Walls to 4FL.GL.H-T/7-3 18 06APR06 29APR06 0 100 18 -134 1201 SP.Bidg RC S/Slab 4FL.+95.30mPD GL.H-T/7-3 18 21APR06 13MAY06 0 18 -80 -132	CONST	RUCTION													1				
NB CARRIAGEWAY & CENTRAL RESERVE 1196 SP.Bldg - RC Trans Slab 2FL.+80.45mPD GL.H-S/2-7 20 12DEC05A 15FEB06A 100 100 0 -133 1192 SP.Bldg RC Cols. & Walls to 2FL.GL.H-S/10-12 18 30DEC05A 21FEB06 70 100 2 -117 -164 1197 SP.Bldg RC Cols. & Walls to 3.FL.GL.H-T/7-3 18 22FEB06 14MAR06 0 100 18 -117 -140 1198 SP.Bldg RC S/Slab U2 FL.+81.15mPD GL.H-T/7-3 12 13MAR06 25MAR06 0 100 12 -117 -138 1199 SP.Bldg RC S/Slab 3FL.+87.40mPD GL.H-T/7-3 18 24MAR06 18APR06 0 100 18 -117 -136 1200 SP.Bldg RC Cols. & Walls to 4FL.GL.H-T/7-3 18 06APR06 29APR06 0 100 18 -134 1201 SP.Bldg RC S/Slab 4FL.+95.30mPD GL.H-T/7-3 18 21APR06 13MAY06 0 18 -80 -132	SUPER	STRUCTURE																	
1196 SP.Bldg - RC Trans Slab 2FL.+80.45mPD GL.H-S/2-7 20 12DEC05A 15FEB06A 100 100 0 -133 1192 SP.Bldg RC Cols.& Walls to 2FL.GL.H-S/10-12 18 30DEC05A 21FEB06 70 100 2 -117 -164 1197 SP.Bldg RC Cols.& Walls to 3.FL.GL.H-T/7-3 18 22FEB06 14MAR06 0 100 18 -117 -164 1198 SP.Bldg RC S/Slab U2 FL.+81.15mPD GL.H-T/7-3 12 13MAR06 25MAR06 0 100 12 -117 -138 1199 SP.Bldg RC S/Slab JFL.+87.40mPD GL.H-T/7-3 12 13MAR06 25MAR06 0 100 18 -117 -136 1200 SP.Bldg RC Cols. & Walls to 4FL.GL.H-T/7-3 18 24MAR06 18APR06 0 100 18 -117 -136 1200 SP.Bldg RC S/Slab 4FL.+95.30mPD GL.H-T/7-3 18 21APR06 13MAY06 0 18 -80 -132 1201 SP.Bldg RC S/Slab 4FL.+95.30mPD GL.H-T/7-3 18 21APR06 13MAY06 0 18 -80 -132	RC WO	RKS																	
1192 SP.Bldg RC Cols.& Walls to 2FL.GL.H-S/10-12 18 30DEC05A 21FEB06 70 100 2 -117 -164 1197 SP.Bldg RC Cols.& Walls to 3.FL.GL.H-T/7-3 18 22FEB06 14MAR06 0 100 18 -117 -164 1198 SP.Bldg RC S/Slab U2 FL.+81.15mPD GL.H-T/7-3 12 13MAR06 25MAR06 0 100 12 -117 -138 1199 SP.Bldg RC S/Slab 3FL.+87.40mPD GL.H-T/7-3 18 24MAR06 18APR06 0 100 18 -117 -136 1200 SP.Bldg RC Cols. & Walls to 4FL.GL.H-T/7-3 18 06APR06 29APR06 0 100 18 -80 -134 1201 SP.Bldg RC S/Slab 4FL.+95.30mPD GL.H-T/7-3 18 21APR06 13MAY06 0 18 -80 -134	NB CARR	IAGEWAY & CENTRAL RESERVE																	
1197 SP.Bldg RC Cols.& Walls to 3.FL.GL.H-T/7-3 18 22FEB06 14MAR06 0 100 18 -117 -140 1198 SP.Bldg RC S/Slab U2 FL.+81.15mPD GL.H-T/7-3 12 13MAR06 25MAR06 0 100 12 -117 -138 1199 SP.Bldg RC S/Slab 3FL.+87.40mPD GL.H-T/7-3 18 24MAR06 18APR06 0 100 18 -117 -136 1200 SP.Bldg RC Cols. & Walls to 4FL.GL.H-T/7-3 18 06APR06 29APR06 0 100 18 -134 1201 SP.Bldg RC S/Slab 4FL.+95.30mPD GL.H-T/7-3 18 21APR06 13MAY06 0 18 -80 -132	1196	SP.Bldg - RC Trans Slab 2FL.+80.45mPD GL.H-S/2-7	20	12DEC05A	15FEB06A	100	100	0		-133									
1198 SP.Bldg RC S/Slab U2 FL.+81.15mPD GL.H-T/7-3 12 13MAR06 25MAR06 0 100 12 -117 -138 1199 SP.Bldg RC S/Slab 3FL.+87.40mPD GL.H-T/7-3 18 24MAR06 18APR06 0 100 18 -117 -136 1200 SP.Bldg RC Cols. & Walls to 4FL.GL.H-T/7-3 18 06APR06 29APR06 0 100 18 -80 -134 1201 SP.Bldg RC S/Slab 4FL.+95.30mPD GL.H-T/7-3 18 21APR06 13MAY06 0 18 -80 -132			18	30DEC05A	21FEB06	70	100	2	-117	-164									
1199 SP.Bldg RC S/Slab 3FL.+87.40mPD GL.H-T/7-3 18 24MAR06 18APR06 0 100 18 -117 -136 1200 SP.Bldg RC Cols. & Walls to 4FL.GL.H-T/7-3 18 06APR06 29APR06 0 100 18 -80 -134 1201 SP.Bldg RC S/Slab 4FL.+95.30mPD GL.H-T/7-3 18 21APR06 13MAY06 0 18 -80 -132	1197	SP.Bldg RC Cols.& Walls to 3.FL.GL.H-T/7-3	18	22FEB06	14MAR06	0	100	18	-117	-140									
1200 SP.Bldg RC Cols. & Walls to 4FL.GL.H-T/7-3 18 06APR06 29APR06 0 100 18 -80 -134 1201 SP.Bldg RC S/Slab 4FL.+95.30mPD GL.H-T/7-3 18 21APR06 13MAY06 0 18 -80 -132			12	13MAR06		0	100	12	-117	-138									
1201 SP.Bldg RC S/Slab 4FL.+95.30mPD GL.H-T/7-3 18 21APR06 13MAY06 0 18 -80 -132	1199	SP.Bldg RC S/Slab 3FL.+87.40mPD GL.H-T/7-3	18			0	100	18											
			18	06APR06		0	100	18											
1202 SP.Bldg RC Cols. & Walls to 5FL.GL.H-T/7-3 18 08MAY06 27MAY06 0 18 -74 -132	1201	SP.Bldg RC S/Slab 4FL.+95.30mPD GL.H-T/7-3	18	21APR06	13MAY06	0		18	-80	-132									
								18											
1203 SP.Bldg RC S/Slab 5FL +102.35mPD GL.H-D/7-1 18 22MAY06 12JUN06 0 18 -74 -132			18	22MAY06	12JUN06	0		18	-74	-132									
1204 SP.Bldg RC Stairs GL.H-T/7-3 18 22MAY06 12JUN06 0 18 -56 -120			18	22MAY06	12JUN06	0		18	-56	-120		<u> </u>							
SB CARRIAGEWAY	1										_				L				
1208 SP.Bldg - RC Trans Slab 2FL.+80.45mPD GL.H-S/1-2 15 30DEC05A 21FEB06 98 100 2 -118 -143		-																	
1209 SP.Bldg RC Cols.& Walls to 3FL.GL.H-T/1-3 18 22FEB06 14MAR06 0 100 18 -118 -146																			
1210 SP.Bldg RC S/Slab U2FL.+81.15mPD GL.H-T/1-3 12 15MAR06 28MAR06 0 100 12 -118 -146	1210	SP.Bldg RC S/Slab U2FL.+81.15mPD GL.H-T/1-3	12	15MAR06	28MAR06	0	100	12	-118	-146									

Act Activity Orig Early Du Beily Du Beily Finite Activity Beily Finite Activity Bit Status Finite Activity Status Finitactity </th <th>Act.</th> <th>Activity</th> <th>Orig</th> <th>Early</th> <th>Early</th> <th>%</th> <th></th> <th>Rem</th> <th>Total</th> <th>Variance</th> <th>DEC</th> <th></th> <th>JAN</th> <th>F</th> <th>EB</th> <th>MAR</th> <th>APR</th> <th>MAY</th> <th>JUN</th>	Act.	Activity	Orig	Early	Early	%		Rem	Total	Variance	DEC		JAN	F	EB	MAR	APR	MAY	JUN
B0:0480/EVACUAL 1211 GP-Bidg RC SISIBD SFL-87.40/mPD GLH-17/1-3 12 22MAR06 0 100 18 70 144 1211 SP-Bidg RC SISIBD SFL-87.40/mPD GLH-17/1-3 12 23MAR06 22APR06 0 100 18 70 146 1212 SP-Bidg RC SISIBD SFL-495.30/mPD GLH-17/1-3 12 13APR06 22APR06 0 12 70 146 1214 SP-Bidg RC SISIBD SFL +102.35/mPD GLH-17/1-3 18 24APR06 0 18 70 146 1216 SP-Bidg RC SISIBD SFL +102.35/mPD GLH-17/1-3 18 27MAV06 0 18 70 146 1216 SP-Bidg RC mare beams to underside of U2F 12 24APR06 0 12 2 -140 1218 SP-Bidg Crane beams to underside of JFL 12 04MAV06 0 12 2 -140 1223 SP-Bidg Crane beams to underside of JFL 12 04MAV06 0 12 4 136 INMAV06 12 26-130 12 4 136 14 14 14 14 14 14 14 14 14 14 14		-	U U	-	-			Dur	Float	arly Finis	27	2 9	28	30 6				32 1 8 15 22 2	33
1212 SP.Bidg RC Cols. & Walls to &FL.GL.H-171-3 14 29M.R06 0 100 18 -70 -146 1213 SP.Bidg RC Cols. & Walls to &FL.GL.H-171-3 12 13APR06 29APR06 0 121 SP.Bidg RC Cols. & Walls to &FL.GL.H-171-3 12 13APR06 29APR06 0 12 -70 -146 1214 SP.Bidg RC Cols. & Walls to &FL.GL.H-171-3 18 24APR06 16MAY06 0 18 -70 -146 1216 SP.Bidg CC Cols. & Walls to &FL.GL.H-171-3 18 17MAY06 07JUN06 0 18 -70 -143 STRUCTURAL STEELWORKS 12 24APR06 09MAY06 0 12 6 -138 ARCHITECTURAL & BUILDER'S WORKS 70 12 2 -140 12 6 -138 1216 SP.Bidg. Full Couvre & cloading 2FL to 3FL 30 22MAY06 20 30 36 -138 1220 SP.Bidg. Full Couvre & cloading 2FL to 3FL 14 22FEB06 7MAR06 0 100 18 40 -138 1220 SP.Bidg. Werrord Tank/Pits & Test GF	SB CARRI	•				1					12 13 20		10 23		15 20				5 5 12
1213 SP Bidg RC S/Sib/ 4FL+95.30m/D GLH-17/1-3 12 13APR06 29APR06 0 12 270 -146 1214 SP Bidg RC Cols. & Walls to 5FL GLH-17/1-3 18 24APR06 168 -70 -146 1216 SP Bidg RC Cols. & Walls to 5FL GLH-17/1-3 18 13MAY06 2 9 67 -146 1216 SP Bidg RC Sisliob 5FL +102.35m/D GLH-17/1-3 18 17MAY06 0 18 70 -146 1216 SP Bidg C Cance beams to underside of UZF 12 24APR06 09MAY06 0 12 2 -140 1228 SP Bidg Crane beams to underside of 3FL 12 04MAY06 0 12 6 -136 COFING & EXTENAL FACADE 1228 SP Bidg. Ext Lowre & diadding 2FL to 3FL 30 22MAY06 2 100 18 -100 -138 1220 SP Bidg. West Trades GL 18 25MAR06 0 100 18 4138 1240 SP Bidg. West Trades 2FL 12 25EBD6 14MAR06 0 100 18 4138	1211	SP.Bldg RC S/Slab 3FL.+87.40mPD GL.H-T/1-3	12	22MAR06	04APR06	0	100	12	-109	-146									
1214 SP.Bk/g RC Cols.& Walls to SFL.GLH-171-3 18 24APR06 16MA V06 0 18 70 -146 1215 SP.Bk/g RC Sixlab SFL +102.36mPD GLH-171-3 9 13MAV06 0 9 47 -146 1216 SP.Bk/g RC Stains GLH-171-3 18 17MAV06 0 14 70 -143 STRUCTURAL STEELWORKS	1212	SP.Bldg RC Cols.& Walls to 4FL.GL.H-T/1-3	18	29MAR06	22APR06	0	100	18	-70	-146						-			
1215 SP.Bidg RC. S/Slab SFL +102.35mPD GL H-T/1-3 9 13MAY06 23MAY06 0 9 67 -146 1216 SP.Bidg RC. S/slab SFL +102.35mPD GL H-T/1-3 18 17MAY06 07JUN06 0 18 70 -143 STRUCTURAL STEELWORKS 1218 SP.Bidg Crane beams to underside of UZF 12 24AP06 08MAY06 0 122 2 -140 1223 SP.Bidg Crane beams to underside of 3FL 12 04MAY06 18MAY06 0 122 2 -140 1223 SP.Bidg Crane beams to underside of 3FL 12 04MAY06 18MAY06 0 122 4 -136 ACHTECTURAL & BUILDER'S WORKS ROOR & EXTERNAL FACADE 1220 SP.Bidg.Wifroof Tam/Prits & Test GF GL.H-S/10-12 18 22FEB06 0100 18 -100 -138 1220 SP.Bidg.Wifroof Tam/Prits & Test GF GL.H-S/10-12 19 22FEB06 0100 18 -146 -138 1220 SP.Bidg.Wifroof Tam/Prits & Test GF GL.H-S/10-12 19 22FEB06 01000 18 -138 <	1213	SP.Bldg RC S/Slab 4FL.+95.30mPD GL.H-T/1-3	12	13APR06	29APR06	0		12	-70	-146									
1216 SP.Bidg R.C Stairs GLH-T/1-3 18 17MAY06 07JUN06 0 18 70 143 STRUCTURAL STEELWORKS 1218 SP.Bidg Crane beams to underside of U2F 12 2.4APR06 09MAY06 0 12 2 140 1223 SP.Bidg Crane beams to underside of 3FL 12 04MAY06 0 12 2 140 1223 SP.Bidg Crane beams to underside of 3FL 12 04MAY06 0 12 2 140 ARCHITECTURAL & BUILDER'S WORKS ROOMENT 1280 SP.Bidg. Whroof Tank/Pits & Tost GF GLH-Sr10-12 18 254JUN06 0 100 18 100 138 1200 SP.Bidg.Whroof Tank/Pits & Tost GF GLH-Sr10-12 18 222 22EEB06 07MAR06 0 100 18 -00 -138 1200 SP.Bidg.Whroof Tank/Pits & Tost GF GLH-Sr10-12 18 224 24MAR06 0 100 18 -00 -138 1220 SP.Bidg.Weit Trades GL 18 08ARR06 24PR06 0 100 18	1214	SP.Bldg RC Cols.& Walls to 5FL.GL.H-T/1-3	18	24APR06	16MAY06	0		18	-70	-146									
STRUCTURAL STEELWORKS 1218 SP.Bidg Crane beams to underside of UZF 12 24APRo6 09MAY06 0 12 2 -140 1223 SP.Bidg Crane beams to underside of 3FL 12 04MAY06 0 12 2 -140 ARCHTECTURAL & BUILDER'S WORKS ExternAL FACADE 30 280 -86 -138 BUILDER'S WORK 1200 9P.Bidg. Ext Lowne & clading 2FL to 3FL 30 22MAY06 0 100 18 -100 -138 1219 SP.Bidg. WiProof Tank/Pits & Test GF GL.H-S/10-12 18 22FEB06 07MAR06 0 100 18 -90 -138 1220 SP.Bidg. Wiet Trades GL 18 06MAR06 22APRO6 0 100 18 -90 -138 1220 SP.Bidg. Weit Trades 1FL 12 06APRO6 0 100 18 -90 -138 1224 SP.Bidg. Weit Trades 2FL 18 06APR06 0 100 18 -140 1265 SP.Bidg. Weit Trades 3FL 18 06APR06 0 100 18 -111 -140 <td>1215</td> <td>SP.Bldg RC S/Slab 5FL +102.35mPD GL.H-T/1-3</td> <td>9</td> <td>13MAY06</td> <td>23MAY06</td> <td>0</td> <td></td> <td>9</td> <td>-67</td> <td>-146</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	1215	SP.Bldg RC S/Slab 5FL +102.35mPD GL.H-T/1-3	9	13MAY06	23MAY06	0		9	-67	-146									
1218 SP.Bidg Crane beams to underside of U2F 12 24APR06 0 MAY06 0 12 2 -140 1223 SP.Bidg Crane beams to underside of 3FL 12 0 MMAY06 0 12 -6 -136 ARCHITECTURAL & BUILDER'S WORKS ROOFING & EXTERNAL FACADE 1260 SP.Bidg.Ext Louvre & Cladding 2FL to 3FL 30 22MAY06 26JUN06 0 30 -86 -138 BUILDER'S WORKS ROOFING & EXTERNAL FACADE 1260 SP.Bidg.WiProof Tank/Pits & Test GF GL.H-S/10-12 18 22FEB06 14MAR06 0 100 18 -100 -138 1220 SP.Bidg.WiProof Tank/Pits & Test GF GL.H-S/10-12 18 22FEB06 07MAR06 0 100 18 -100 -138 1220 SP.Bidg.Weit Trades GL 18 0BMAR06 28MAR06 0 100 18 -90 -138 1221 SP.Bidg.Weit Trades S1FL 12 06APR06 0 100 18 -90 -138 1221 SP.Bidg.Weit Trades 3FL 18 06APR06	1216	SP.Bldg RC Stairs GL.H-T/1-3	18	17MAY06	07JUN06	0		18	-70	-143									
AC A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A	STRUC	TURAL STEELWORKS																	
ARCHITECTURAL & BUILDER'S WORKS ROOFING & EXTERNAL FACADE 1260 SP.Bidg.Ext Louvre & cladding 2FL to 3FL 30 22MAY06 26JUN06 0 30 -86 -138 BUILDER'S WORKS BUILDER'S WORK ULDER'S WORK ULDER'S WORK 1210 SP.Bidg.Wi/Prool Tank/Pitts & Test GF GL.H-S/10-12 18 22FEB06 07MAR06 0 100 18 -100 -138 1220 SP.Bidg.Wet Trades GL 12 22FEB06 07MAR06 0 100 18 -84 -138 1264 SP.Bidg.Wet Trades 1FL 18 15MAR06 04APR06 0 100 18 -90 -138 1221 SP.Bidg.Wet Trades 1FL 18 06APR06 0 100 18 -90 -138 1264 SP.Bidg.Wet Trades 3FL 18 06APR06 0 100 18 -114 -140 1266 SP.Bidg.Wet Trades 3FL 18 06APR06 0 100 18 -118 -140 1266 SP.Bidg.Wet Trades	1218	SP.Bldg Crane beams to underside of U2F	12	24APR06	09MAY06	0		12	2	-140									
VOOFING & EXTERNAL FACADE 1260 SP.Bidg.Ext Louvre & cladding 2FL to 3FL 30 22MAY06 26JUN06 0 30 -86 -138 BUILDER'S WORK 1210 SP.Bidg.Wi/Proof Tank/Pits & Test GF GL.H-S/10-12 18 22FEB06 14MAR06 0 100 18 -100 -138 1220 SP.Bidg.Plinths GL. 12 22FEB06 07MAR06 0 100 18 -100 -138 1220 SP.Bidg.Wet Trades GL 18 08MAR06 28MAR06 0 100 18 -90 -138 1221 SP.Bidg.Wet Trades IFL 18 15MAR06 04APR06 0 100 18 -90 -138 1221 SP.Bidg.Wet Trades 3FL 18 06APR06 0 100 18 -90 -138 1265 SP.Bidg.Wet Trades 3FL 18 06APR06 0 100 18 -116 -140 1266 SP.Bidg.Wet Trades 3FL 18 06APR06 0 18 -117 -136 1552 SP.Bidg.Plinths 4FL. 18 <t< td=""><td>1223</td><td>SP.Bldg Crane beams to underside of 3FL</td><td>12</td><td>04MAY06</td><td>18MAY06</td><td>0</td><td></td><td>12</td><td>-6</td><td>-136</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	1223	SP.Bldg Crane beams to underside of 3FL	12	04MAY06	18MAY06	0		12	-6	-136									
1260 SP.Bidg.Ext Louvre & cladding 2FL to 3FL 30 22MAY06 26JUN06 0 30 -86 -138 BUILDER'S WORK 1219 SP.Bidg.W/Proof Tank/Pits & Test GF GL.H-S/10-12 18 22FEB06 14MAR06 0 100 18 -100 -138 1220 SP.Bidg.Plinths GL. 12 22FEB06 07MAR06 0 100 12 -100 -138 1526 SP.Bidg.Wet Trades GL 18 08MAR06 28MAR06 0 100 18 -90 -138 1224 SP.Bidg.Wet Trades 1FL 18 15MAR06 04APR06 0 100 18 -90 -138 1221 SP.Bidg.Plinths 2FL. 12 06APR06 22APR06 0 100 18 -90 -138 1226 SP.Bidg.Wet Trades 2FL 18 06APR06 29APR06 0 100 18 -114 -140 1266 SP.Bidg.Wet Trades 3FL 18 06JUN06 0 18 -117 -136 1522 SP.Bidg.Plinths 4FL. 12 22MAY06 05JUN06 0	ARCHIT	ECTURAL & BUILDER'S WORKS	·																
1260 SP.Bidg.Ext Louvre & cladding 2FL to 3FL 30 22MAY06 26JUN06 0 30 -86 -138 BUILDER'S WORK 1219 SP.Bidg.W/Proof Tank/Pits & Test GF GL.H-S/10-12 18 22FEB06 14MAR06 0 100 18 -100 -138 1220 SP.Bidg.Plinths GL. 12 22FEB06 07MAR06 0 100 12 -100 -138 1526 SP.Bidg.Wet Trades GL 18 08MAR06 28MAR06 0 100 18 -90 -138 1224 SP.Bidg.Wet Trades 1FL 18 15MAR06 04APR06 0 100 18 -90 -138 1221 SP.Bidg.Plinths 2FL. 12 06APR06 22APR06 0 100 18 -90 -138 1226 SP.Bidg.Wet Trades 2FL 18 06APR06 29APR06 0 100 18 -114 -140 1266 SP.Bidg.Wet Trades 3FL 18 06JUN06 0 18 -117 -136 1522 SP.Bidg.Plinths 4FL. 12 22MAY06 05JUN06 0	ROOFIN	G & EXTERNAL FACADE																	
1219 SP.Bldg.W/Proof Tank/Pits & Test GF GL.H-S/10-12 18 22FEB06 14MAR06 0 100 18 -100 -138 1220 SP.Bldg.Plinths GL. 12 22FEB06 07MAR06 0 100 12 -100 -138 1526 SP.Bldg.Wet Trades GL 18 08MAR06 28MAR06 0 100 18 -84 -138 1264 SP.Bldg.Wet Trades 1FL 18 15MAR06 04APR06 0 100 12 -112 -140 1265 SP.Bldg.Wet Trades 2FL 12 06APR06 22APR06 0 100 18 -118 -140 1266 SP.Bldg.Wet Trades 3FL 18 06APR06 29APR06 0 100 18 -118 -140 1266 SP.Bldg.Wet Trades 3FL 18 06APR06 0 100 18 -117 -136 1552 SP.Bldg.Plinths 4FL. 12 22MAY06 05JUN06 0 12 -38 -132			30	22MAY06	26JUN06	0		30	-86	-138)								
1219 SP.Bldg.W/Proof Tank/Pits & Test GF GL.H-S/10-12 18 22FEB06 14MAR06 0 100 18 -100 -138 1220 SP.Bldg.Plinths GL. 12 22FEB06 07MAR06 0 100 12 -100 -138 1526 SP.Bldg.Wet Trades GL 18 08MAR06 28MAR06 0 100 18 -84 -138 1264 SP.Bldg.Wet Trades 1FL 18 15MAR06 04APR06 0 100 12 -112 -140 1265 SP.Bldg.Wet Trades 2FL 12 06APR06 22APR06 0 100 18 -118 -140 1266 SP.Bldg.Wet Trades 3FL 18 06APR06 29APR06 0 100 18 -118 -140 1266 SP.Bldg.Wet Trades 3FL 18 06APR06 0 100 18 -117 -136 1552 SP.Bldg.Plinths 4FL. 12 22MAY06 05JUN06 0 12 -38 -132		R'S WORK	1	1	1	1	1	1	1										
Indication Image: Construction	-		18	22FEB06	14MAR06	0	100	18	-100	-138									
Image: Note Trades 1FL 18 15MAR06 04APR06 0 100 18 -90 -138 1224 SP.Bldg.Plinths 2FL. 12 06APR06 22APR06 0 100 12 -112 -140 1265 SP.Bldg. Wet Trades 2FL 18 06APR06 29APR06 0 100 18 -140 1266 SP.Bldg. Wet Trades 2FL 18 06APR06 18MAY06 0 18 -118 -140 1266 SP.Bldg. Wet Trades 3FL 18 26APR06 0 100 18 -117 -136 1562 SP.Bldg Ext. Doors & Windows (frame) 18 19MAY06 09JUN06 0 18 -136 1222 SP.Bldg.Plinths 4FL. 12 22MAY06 05JUN06 0 12 -38 -132	1220	SP.Bldg.Plinths GL.	12	22FEB06	07MAR06	0	100	12	-100	-138									
1221 SP.Bldg.Plinths 2FL. 12 06APR06 22APR06 0 100 12 -140 1265 SP.Bldg. Wet Trades 2FL 18 06APR06 29APR06 0 100 18 -140 1266 SP.Bldg. Wet Trades 3FL 18 06APR06 18MAY06 0 18 -118 -140 1552 SP.Bldg Ext. Doors & Windows (frame) 18 19MAY06 09JUN06 0 18 -84 -136 1222 SP.Bldg.Plinths 4FL. 12 22MAY06 05JUN06 0 12 -38 -132	1526	SP.Bldg. Wet Trades GL	18	08MAR06	28MAR06	0	100	18	-84	-138									
1265SP.Bldg. Wet Trades 2FL1806APR0629APR06010018-118-1401266SP.Bldg. Wet Trades 3FL1826APR0618MAY06018-117-1361552SP.Bldg Ext. Doors & Windows (frame)1819MAY0609JUN06018-84-1361222SP.Bldg.Plinths 4FL.1222MAY0605JUN06012-38-132	1264	SP.Bldg. Wet Trades 1FL	18	15MAR06	04APR06	0	100	18	-90	-138									
1266 SP.Bldg. Wet Trades 3FL 18 26APR06 18MAY06 0 18 -117 -136 1552 SP.Bldg Ext. Doors & Windows (frame) 18 19MAY06 09JUN06 0 18 -84 -136 1222 SP.Bldg.Plinths 4FL. 12 22MAY06 05JUN06 0 12 -38 -132	1221	SP.Bldg.Plinths 2FL.	12	06APR06	22APR06	0	100	12	-112	-140									
1552 SP.Bldg Ext. Doors & Windows (frame) 18 19MAY06 09JUN06 0 18 -84 -136 1222 SP.Bldg.Plinths 4FL. 12 22MAY06 05JUN06 0 12 -38 -132	1265	SP.Bldg. Wet Trades 2FL	18	06APR06	29APR06	0	100	18	-118	-140								l	
1222 SP.Bldg.Plinths 4FL. 12 22MAY06 05JUN06 0 12 -38 -132	1266	SP.Bldg. Wet Trades 3FL	18	26APR06	18MAY06	0		18	-117	-136									
	1552	SP.Bldg Ext. Doors & Windows (frame)	18	19MAY06	09JUN06	0		18	-84	-136	-								
1267 SP.Bldg. Wet Trades 4FL (Up Plen) 18 22MAY06 12JUN06 0 18 -44 -132	1222	SP.Bldg.Plinths 4FL.	12	22MAY06	05JUN06	0		12	-38	-132	•								
	1267	SP.Bldg. Wet Trades 4FL (Up Plen)	18	22MAY06	12JUN06	0		18	-44	-132									

Act.	Activity	Orig	Early	Early	%	DWP %	Rem	Total	Variance	DEC	JAN		FEB	MAR	APR	MAY	JUN
ID	Description	Dur	Start	Finish		Compl.	Dur	Float	arly Finis	27	2 9 16	23 3	29 0 6 13	30 7 /6 /13 /20 /27	31 3 10 17 24	32 1 8 15 22	29 5 12
ID Description Dur Start Finish Compl. Dur Float arly Finish E&M - GENERAL E&M - GENERAL E&M - GENERAL Example of the second secon												-1 - 1-					
MVAC WORKS																	
MCC, POWER & CONTROL																	
6745	EntSpBldg-MCC, power & control 1st fix	42	09MAY06	27JUN06	0		42	-57	-136		_						
FS WORKS																	
FS MAJOR EQUIPMENT						1											
6028	EntSpBldg-Hydrant Pump & Tank set 1st fix	48	29MAR06	30MAY06	0		48	8	-138					-			
	HYDRANT + HOSE REEL																
6777	EntSpBldg-ENT Tunnel (Hyd/HR) pumps set 1st fix	24	29MAR06	29APR06	0		24	62	-138								
	ER DISTRIBUTION MAJOR EQPT.		0.01411/05						1.10	-							
6027	EntSpBldg-HV power dist. sys 1st fix	36	02MAY06	14JUN06	0		36	-112	-140	-							
	G & LIGHTNING PROTECTION			1	· · ·												
6014	EntSpBldg-Earth'g & lightn'g - Earth Mat & Rods	30	04MAY06	09JUN06	0		30	-84	-136	-							
PLUMBING & DRAINAGE WORKS																	
6029	EntSpBldg-Cleansing Water Pumps & Tanks 1st fix	18	29MAR06	22APR06	0		18	56	-138								
	 DN SYSTEM					I		1									
	EntSpBldg-irrig. Water Pumps & Tanks 1st fix	18	29MAR06	22APR06	0		18	56	-138								
TCSS C	ONTAINMENT	1 1		I		J		1	l								
	EntSpBldg - TCSS Contain't for KD5	24	24APR06	23MAY06	0		24	-108	-140								
ESM C																	
E&M G/F MVAC WORKS																	
	INT./AIR CONDITIONING																
	EntSpBldg G/F-AC(1st Fix) mech.vent.	36	29MAR06	16MAY06	0		36	-46	-138								
E&M 1/F	=			l 				I									
MVAC W																	
MECH.VEI	NT./AIR CONDITIONING																
6026	EntSpBldg 1F-AC(1st Fix) mech.vent.	42	06APR06	30MAY06	0		42	-58	-138								
TUNNE	L VENTILATION SYSTEM																
6753	EntSpBldg 1F-TVF pneumatic 1st fix	24	06APR06	09MAY06	0		24	68	-138	1							
E&M 2/F	=			l 				I									
MVAC WORKS																	
	NT./AIR CONDITIONING							1									
6022	EntSpBldg 2F-AC(1st Fix) mech.vent.	36	02MAY06	14JUN06	0		36	-118	-140	þ							
	1			1	1			I	I	1	1		1		1	r	

Act.	Activity	Orig Early	Early	%	DWP %					JAN 28	FEB		MAR 30	APR 31	MAY 32	JUN 33
ID	Description	Dur Start	Finish	Compl	. Compl.	Dur I	Float	arly Finis	27 12 19 26	28 2 9 16 23	30 6 13	20 27	6 _13 _20 _27			9 5 12
ELECTR	RICAL WORKS															
	UB-MAIN DISTRIBUTUION			-	1 1											
6060	EntSpBldg 2F-ES(1st Fix) Main & Sub-main dist.	54 24MAY06	27JUL06	0		54	-118	-140								
FINAL CIR																
	EntSpBldg 2F-ES(1st Fix) Final Circuit dist.	54 24MAY06	27JUL06	0		54	-118	-140							-	
		240000	2700200	Ū		04	110	140								
E&M RC	DOF				1 1		I									
MVAC W																
	NT./AIR CONDITIONING															
	EntSpBldg 3F-AC(1st Fix) mech.vent.	30 09MAY06	13JUN06	0		30	-117	-136								
EXTERN	NAL AREAS															
PLUMBI	NG & DRAINAGE															
	ON SYSTEM			1												
7587	EntSpBldg Ext-PD(1st Fix) irrig. sys	24 29MAR06	29APR06	0		24	74	-138]	
7588	EntSpBldg Ext-PD(2nd Fix) irrig. sys	18 02MAY06	23MAY06	0		18	74	-138						l		
7590	EntSnPldg Evt DD/Eingl Eiv) irrig avg	12 24MAY06	07JUN06	0		12	74	-138								
7569	EntSpBldg Ext-PD(Final Fix) irrig. sys	12 24WAT00	0730100	0		12	74	-130								
EAGLE	S NEST TUNNEL		1	1	1 1	1										
	ITALS & APPROVALS															
	QPT./ MTRL.DETAIL SUBMITTAL		1	T	1 1											
8217	EntRtNb-Sub.TVS control sys	54 02JUL04/	20MAR06	95	100	25	-158	-265								
8220	EntRtSb&VA-Sub.TVS control sys	54 02JUL04/	20MAR06	95	100	25	-158	-277								
9215	EntRtNb-Sub.FS AFA & Linear sys	54 05JUL04/	24FEB06	99	100	5	-200	-461								
0215	ETIR IND-Sub.FS AFA & Linear sys	54 0550L04/	24FEB00	99	100	5	-200	-401								
8219	EntRtSb&VA-Sub.FS AFA & Linear sys	54 05JUL04/	24FEB06	99	100	5	-200	-470								
8213	EntRtNb-Sub.CMCS & ELV sys	78 26AUG04	4 25MAR06	98	100	30	-98	-342								
8221	EntRtSb&VA-Sub.CMCS & ELV sys	78 26AUG04	4 25MAR06	98	100	30	-108	-348								
	QPT./MTRL.APPROVAL BY ENGINEER				, , , , , , , , , , , , , , , , , , ,											
6808	EntRtSb&VA-App. Tunnel Lgt sys	18 05AUG04	4 08MAR06	80	100	15	-203	-366								
		40.05411004		00	100	40	000						_			
6878	EntRtNb-App. Tunnel Lgt sys	18 05AUG04	A 11MAR06	80	100	18	-200	-366								
6802	EntRtSb&VA-App. LV main & submain dist. sys	18 13AUG04	A 11MAR06	80	100	18	-212	-384								
0002				00	100		212	004								
6882	EntRtNb-App. LV main & submain dist. sys	18 13AUG04	A 11MAR06	80	100	18	-160	-374		I						

Act.	Activity	rig Early	Early	%		Rom	Total	Variance	DEC	JAN	FEB		MAR	APR	MAY	JUN
ID		Our Start	Finish							28 2 9 16 23 3	29 30 6 13	20 27 6	30 13 20 27	31 3 10 17 24	32 1 8 15 2	33 2 29 5 12
E&M EC	PT./MTRL.APPROVAL BY ENGINEER	,	ļ.			1		•								
6785	EntRtSb&VA-App. FS AFA & Linear sys	18 14SEP04	A 11MAR06	85	100	18	-200	-465								
6880	EntRtNb-App. FS AFA & Linear sys	18 14SEP04	A 11MAR06	85	100	18	-200	-456								
6798	EntRtSb&VA-App. CMCS & ELV sys	18 20SEP04	A 11MAR06	88	100	18	-108	-318								
6877	EntRtNb-App. CMCS & ELV sys	18 20SEP04	A 11MAR06	88	100	18	-98	-312								
6795	EntRtSb&VA-App. TVS control sys	18 12NOV04	A 11MAR06	70	100	18	-158	-252								
6884	EntRtNb-App. TVS control sys	18 12NOV04	A 11MAR06	70	100	18	-158	-240	-							
DESIGN	& ENGINEERING															
PERMA	NENT WORKS															
TUNNEL	-		-		1	1										
1657	Design/ICE Check Tunnel Clading	24 03JAN06	25FEB06	60	100	6	-130	-217								
		12 20FEB06	04MAR06	0	100	12	-208	-411			I					
		12 27FEB06			100	12	-130	-217								
1669	Issue Constr Dwgs X-passage/Adit Fire Doors	0	04MAR06	0	100	0	-208	-404								
1658	Issue Constr Dwgs Tunnel Clading	0	11MAR06	0	100	0	-130	-210					•			
PROCU	REMENT - MATERIAL															
TUNNEL					_											
1660	Order/Manufact/Del Tunnel Cladding	00 29DEC05	A 15JUL06	10	90	40	-130	-110								
1685	Order/Manufact/Del Fire Doors	50 06MAR06	6 09MAY06	0	100	50	-208	-304								
NORTH	BOUND TUNNEL															
6879	EntRtNb-Proc & Manuf. CMCS & ELV sys	80 25MAR05	A 14JUN06	20	100	90	-100	-206								
6883	EntRtNb-Proc & Manuf. FS AFA & Linear sys	80 25MAR05	A 12JUN06	40	100	90	-200	-348								
6885	EntRtNb-Proc & Manuf. ES Cabling	80 20MAY05	A 30MAY06	65	100	80	-160	-256								
7622	EntRtNb-Proc & Manuf. TVS in Tunnel	80 09JUN05	A 23MAY06	60	100	30	-106	-260								
6881	EntRtNb-Proc & Manuf. Tunnel Lgt sys	20 20JAN06	A 04JUL06	0	100	90	-200	-276	1							
6887	EntRtNb-Proc & Manuf. TVS control sys	80 13MAR06	5 19OCT06	0	100	180	-158	-240								
	I	1	I				1		I	I	1			<u> </u>	<u> </u>	

Act	Activity	Orig Early	Early	%	DWP %	Pom	Total	Variance	DEC	JAN		FEB	MAR	APR	MAY	JUN
Act. ID	Description	Dur Start	Finish		Compl.					28	23 30 6	29	30 27 6 13 20 27	31	32 1 8 15 22 2	33
SOUTH	BOUND TUNNEL & V.A TUNNEL	1 1	I			1										
	EntRtSb&VA-Proc & Manuf. FS AFA & Linear sys	180 25MAR05A	12JUN06	40	100	90	-200	-357								
6799	EntRtSb&VA-Proc & Manuf. CMCS & ELV sys	180 25MAR05A	08AUG06	20	100	100	-146	-258				- T				
6803	EntRtSb&VA-Proc & Manuf. ES Cabling	180 20MAY05A	18JUL06	65	100	120	-212	-306								
6809	EntRtSb&VA-Proc & Manuf. Tunnel Lgt sys	120 20JAN06A	29JUN06	0	100	90	-203	-276								
0700			4000700	0	100	400	450	050					_			
6796	EntRtSb&VA-Proc & Manuf. TVS control sys	180 13MAR06	19OCT06	0	100	180	-158	-252								
MAJOR	EQUIPMENT DELIVERY															
TUNNEL																
	- BOUND TUNNEL															
	EntRtNb-Del. TVS in Tunnel	72 01DEC05A	23MAY06	60	100	43	-106	-188						 '		
	BOUND TUNNEL & V.A TUNNEL	1	1	1	1	1	1	1								
7620	EntRtSb&VA-Del. TVS in Tunnel	72 12DEC05A	07JUN06	60	100	29	-118	-212								
CONCT																
	RUCTION WORKS															
	PREPARATION WORKS															
SOUTH PO																
	Demobilise lining form NB (from NP) at VA/CP7	12 20FEB06	04MAR06	0	100	12	649	-128								
3321	Demobilise lining form NB (from SP) at VA/CP7	12 20FEB06	04MAR06	0	100	12	649	-135								
3736	Demobilise lining form SB (from NP) at VA/CP7	12 27FEB06	11MAR06	0	100	12	643	-143				Г				
5750		12 211 2000	TIMAROO		100	12	040	-145								
3323	Demobilise OHVD form NB (from SP) at VA/CP7	12 06MAR06	18MAR06	0	100	12	649	-135								
3739	Demobilise OHVD form SB (from NP) at VA/CP7	12 14MAR06	27MAR06	0	100	12	642	-140								
3735	Demobilise lining form SB (from SP) at VA/CP7	12 07APR06	24APR06	0	100	12	610	-179								
3322	Demobilise OHVD form NB (from NP) at VA/CP7	12 08APR06	25APR06	0	100	12	621	-152								
0700		40 0740000	401441/00	0	100	10	000	101						+		
3738	Demobilise OHVD form SB (from SP) at VA/CP7	12 27APR06	12MAY06	0	100	12	608	-181								
NORTH	BOUND TUNNEL DRIVE	I I	l 	1		1		1								
	INVERT															
	DRTAL															
3188	NB exc.grnd/foul water drain trough 118m(fr.NP)	39 17JAN06A	14FEB06A	100	100	0		-190								
2245	NR Fourier Gullov ENE 20 to ENE 24 [40m]	11 17JAN06A	24 14 106 4	100	100	0		100			—					
3345	NB Foulwater Gulley ENF-20 to ENF-21 [49m]		24JANU6A	100	100	0		-100								
			l	I	I	I	1	1	I				+	l		+

Act.	Activity	Orig	Early	Early	%	DWP %	Rem	Total	Variance	DEC 27		JAN		FEB		MAR	APR	MA	JUN
ID	Description	Dur	Start	Finish	Compl.	Compl.	Dur	Float	arly Finis	27 12 19 26	29	28 16 2	3 30	29 6 13	20 27	30 7 ₁ 6 ₁ 13 ₁ 20 ₁ 27	31 3 10 17 24	32 1 8 15	33 5 12
NORTH PC						T													
3344	NB Foulwater Gulley ENF-19 to ENF-20 [49m]	11	06FEB06A	14FEB06A	100	100	0		-100										
3343	NB Foulwater Gulley ENF-18 to ENF-19 [49m]	11	20FEB06	03MAR06	0	100	11	-2	-104					I					
3432	NB Ground water ENG-21 to ENG-22 [50m]	11	18JAN06A	25JAN06A	100	100	0		-115										
3431	NB Ground water ENG-20 to ENG-21 [49m]	11	07FEB06A	15FEB06A	100	100	0		-115										
3430	NB Ground water ENG-19 to ENG-20 [49m]	11	20FEB06	03MAR06	0	100	11	-13	-118					Į					
3429	NB Ground water ENG-18 to ENG-19 [50m]	11	04MAR06	16MAR06	0	100	11	-13	-118										
SOUTH PC	RTAL	1	 	l	1	I	1	1	1		1								
	NB exc.grnd/foul water drain trough 253m(fr.SP)	50	17JAN06A	10FEB06A	100	100	0		-287										
	- · · ·																		
3212	NB exc.grnd/foul water drain trough 146m(fr.SP)	27	18JAN06A	11FEB06A	100	100	0		-232										
3211	NB exc.grnd/foul water drain trough 90m(fr.SP)	21	06FEB06A	14FEB06A	100	100	0		-265										
3213	NB exc.grnd/foul water drain trough 100m(fr.SP)	18	20FEB06	11MAR06	0		18	65	-238					[
3214	NB exc.grnd/foul water drain trough 199m(fr.SP)	37	20FEB06	03APR06	0		37	73	-227					[
3216	NB Invert Cleaning [fr.SP] 253m	18	25JAN06A	18FEB06	0	100	0	-12	-291										
3217	NB Invert Cleaning [fr.SP] 90m	20	20FEB06	14MAR06	0	100	20	24	-286					[
3218	NB Invert Cleaning [fr.SP] 146m	24	15MAR06	12APR06	0	100	24	24	-279										
3219	NB Invert Cleaning [fr.SP] 100m	22	13APR06	13MAY06	0		22	24	-279										
3220	NB Invert Cleaning [fr.SP] 199m	23	15MAY06	10JUN06	0		23	24	-276										
3328	NB Foulwater Gulley ENF-4 to ENF-5 [51m]	11	13JAN06A	20JAN06A	100	100	0		-176										
3324	NB Foulwater Gulley ENF-1A to ENF-1 [44m]	10	17JAN06A	27JAN06A	100	100	0		-227										
3329	NB Foulwater Gulley ENF-5 to ENF-6 [51m]	11	18JAN06A	26JAN06A	100	100	0		-170										
3325	NB Foulwater Gulley ENF-1 to ENF-2 [50m]	11	23JAN06A	08FEB06A	100	100	0		-219										
3330	NB Foulwater Gulley ENF-6 to ENF-7 [44m]	10	24JAN06A	08FEB06A	100		0		-164				╞						
3331	NB Foulwater Gulley ENF-7 to ENF-7A [6m]	6	07FEB06A	14FEB06A	100		0		-163										
3332	NB Foulwater Gulley ENF-7A to ENF-8 [50m]	11	20FEB06	03MAR06	0		11	-6	-167					I					

Act.	Activity	Orig	Early	Early	%				Variance		JAN 28	FEB 29	MAR 30	APR 31	MAY 32	JUN 33
ID	Description	Dur	Start	Finish	Compl.	Compl.	Dur	Float	arly Finis	12 19 26	28 2 9 16 23 5	30 6 13 2	20 27 6 13 20 27			29 5 12
SOUTH PP 3333 3334 3335 3336 3337 3338 3339 3415 3416 3417 3410 3410 3418	DRTAL NB Foulwater Gulley ENF-8 to ENF-9 [50m]	11	04MAR06		0		44	-6	-167							
3333	INB FOUIWAIEF Guiley ENF-8 to ENF-9 [50m]	11	04IVIAR06	16MAR06	0		11	-0	-167							
2224	NB Foulwater Gulley ENF-9 to ENF-10 [49m]	11	17MAR06	29MAR06	0		11	-6	-167							
3334		11	ITMARUU	Z9IVIARUU	0		11	-0	-107							
3335	NB Foulwater Gulley ENF-10 to ENF-11 [50m]	11	30MAR06	12APR06	0		11	-6	-167							
0000			JOMAROO	1241 100	U			-0	-107				-			
3336	NB Foulwater Gulley ENF-11 to ENF-12 [47m]	10	13APR06	27APR06	0		10	-6	-167							
0000		10	10/11/00	2//11/00	Ŭ		10		107							
3337	NB Foulwater Gulley ENF-12 to ENF-13 [47m]	10	28APR06	11MAY06	0		10	-6	-167							
0007			20/11/100	1111/1100	Ŭ		10	ľ								
3338	NB Foulwater Gulley ENF-13 to ENF-14 [49m]	11	12MAY06	24MAY06	0		11	-6	-167							
					-											
3339	NB Foulwater Gulley ENF-14 to ENF-15 [49m]	11	25MAY06	07JUN06	0		11	-6	-167							
					-											
3415	NB Ground water ENG-4 to ENG-5 [51m]	11	14JAN06A	21JAN06A	100	100	0		-187							
							-									
3416	NB Ground water ENG-5 to ENG-6 [51m]	11	19JAN06A	27JAN06A	100	100	0		-181							
							-		_							
3412	NB Ground water ENG-1B to ENG-2 [50m]	11	24JAN06A	09FEB06A	100	100	0		-230							
3417	NB Ground water ENG-6 to ENG-7 [50m]	11	25JAN06A	09FEB06A	100	100	0		-174							
3410	NB Ground water ENG-1C to ENG-1B [44m]	14	20FEB06	07MAR06	0	100	14	43	-238							
3418	NB Ground water ENG-7 to ENG-8 [50m]	11	20FEB06	03MAR06	0		11	-12	-182			📫				
3419	NB Ground water ENG-8 to ENG-9 [50m]	11	04MAR06	16MAR06	0		11	-12	-182							
3411	NB Ground water ENG-1A to ENG-1B	6	08MAR06	14MAR06	0	100	6	43	-238							
3420	NB Ground water ENG-9 to ENG-10 [49m]	11	17MAR06	29MAR06	0		11	-12	-182							
3421	NB Ground water ENG-10 to ENG-11 [51m]	11	30MAR06	12APR06	0		11	-12	-182							
3422	NB Ground water ENG-11 to ENG-12 [46m]	10	13APR06	27APR06	0		10	-12	-182							
3423	NB Ground water ENG-12 to ENG-13 [47m]	10	28APR06	11MAY06	0		10	-12	-182							
3424	NB Ground water ENG-13 to ENG-14 [49m]	11	12MAY06	24MAY06	0		11	-12	-182							
3425	NB Ground water ENG-14 to ENG-15 [49m]	11	25MAY06	07JUN06	0		11	-12	-182							
								I								
-	LINING															
NORTH P								1								
3243	NB NP Arch Lining 157m Tch.1+830 to 1+673 VA	36	05JAN06A	26JAN06A	100	100	0		-115							

Act.	Activity	Orig Early	Early	%	DWP %	Rem	Total	Variance	DEC	JAN	FEE		MAR 30	APR	MAY 32	JUN
ID	Description	Dur Start	Finish	Compl.	Compl.					28 2 9 16 23	29 30 6 13	20 2	30 7 ₁ 6 ₁ 13 20 27	31 3 10 17 24 1		33 9 5 12
NORTH PO	ORTAL															
3252	NB NP OHVD 150m Tch.1+980 to 1+830	30 13DEC05A	06FEB06A	100	100	0		-141								
									-							
3253	NB NP OHVD 157m Tch.1+830 to 1+673 VA	40 04FEB06A	07APR06	70	100	40	-132	-152				Т				
												_				
SOUTH PO				400	100	0		447								
3313	NB SP Arch Lining 130m Tch.1+513 to 1+643	36 28DEC05A	20JAN06A	100	100	0		-117								
2247	NB NP OHVD 130m Tch.1+513 to 1+643	38 12JAN06A	24FEB06	90	100	5	-128	-132	-							
3317	NB NP OHVD 130111101.1+513 to 1+643	30 IZJANUDA	24FED00	90	100	5	-120	-132								
	FINISHING WORKS			1	1	1	1		-			-				
1	ROUGH & UTILITIES															
	NB service trough 150m Tch.2+430 to 2+280 fr.NP	23 19DEC05A	10FEB06A	100	100	0		-226								
5551	ND Service trough 130m 16h.2+400 to 2+200 h.M	23 13020036		100	100	Ŭ		-220								
3532	NB service trough 150m Tch.2+280 to 2+130 fr.NP	23 12JAN06A	18FEB06A	100	100	0		-203	-							
0002		20 120/1100/1	IOI EDOO/	100	100	Ŭ		200								
3533	NB service trough 150m Tch.2+130 to 1+980 fr.NP	23 18JAN06A	17MAR06	46	100	23	-167	-196								
3534	NB service trough 150m Tch.1+980 to 1+830 fr.NP	23 18FEB06A	18APR06	15	100	23	-167	-189								
3535	NB service trough 175m Tch.1+830 to 1+673 fr.NP	25 19APR06	19MAY06	0		25	-167	-182								
	Ĵ															
3537	NB service trough 150m Tch.1+063 to 1+213 fr.SP	23 21JAN06A	17MAR06	31	100	23	-201	-263				-				
	-															
3538	NB service trough 150m Tch.1+213 to 1+363 fr.SP	23 08FEB06A	18APR06	25	100	23	-201	-244								
3539	NB service trough 150m Tch.1+363 to 1+513 fr.SP	23 14FEB06A	17MAY06	0	100	23	-201	-225				-				
									-							
3540	NB service trough 160m Tch.1+513 to 1+673 fr.SP	24 18MAY06	15JUN06	0	100	24	-201	-210								
						-										
3514	NB NP 200 main 150m Tch.2+580 to 2+430 fr.NP	23 17JAN06A	25FEB06	20	100	6	-215	-273								
0545		00 0755000	0.4140.000	0	400		045	000								
3515	NB NP 200 main 150m Tch.2+430 to 2+280 fr.NP	23 27FEB06	24MAR06	0	100	23	-215	-266								
2516	NB NP 200 main 150m Tch.2+280 to 2+130 fr.NP	23 25MAR06	25APR06	0	100	23	-215	-259	-							
3510	INB INF 200 III.alii 150111 1011.2+200 to 2+150 11.INF	23 ZOWARUO	25APR00	0	100	23	-215	-259					_			
3517	NB NP 200 main 150m Tch.2+130 to 1+980 fr.NP	23 26APR06	24MAY06	0	100	23	-215	-252	-							
3317		25 2041100	2407100	0	100	20	-215	-202								
3518	NB NP 200 main 150m Tch.1+980 to 1+830 fr.NP	23 25MAY06	21JUN06	0		23	-215	-245	-							
		20 2011/11/00	2.00.000	Ŭ				2.0								
3520	NB SP 200 main 150m Tch.1+063 to 1+213 fr.SP	23 20FEB06	17MAR06	0	100	23	-197	-267								
3521 3522 3523	NB SP 200 main 150m Tch.1+213 to 1+363 fr.SP	23 18MAR06	18APR06	0	100	23	-197	-248								
3522	NB SP 200 main 150m Tch.1+363 to 1+513 fr.SP	23 19APR06	17MAY06	0	100	23	-197	-229								
3523	NB SP 200 main 160m Tch.1+513 to 1+673 fr.SP	24 23MAY06	20JUN06	0	100	24	-201	-218								

Act. Activity Orig Early Early % DWP % Rem Total Variance 27 28 29 30 31 D Description Dur Start Finish Compl. Compl. Compl. Dur Float arly Finish 20 2 8 29 30 31 SERVICE TROUGH & UTILITIES 60 20FEB06 06MAY06 0 100 60 -152 -233 -233 6 ////////////////////////////////////	
SERVICE TROUGH & UTILITIES 3640 NB NP - 50% TCSS Containment KD6 60 20FEB06 06MAY06 0 100 60 -152 -233 3641 NB NP - Remain 50% TCSS Contain't KD6 63 19APR06 05JUL06 0 100 63 -201 -218 DRAINAGE & RC SLAB	
3641 NB NP - Remain 50% TCSS Contain't KD6 63 19APR06 05JUL06 0 100 63 -218 Image: Contained to the contained to	
DRAINAGE & RC SLAB DRAINAGE & RC SLAB State	
DRAINAGE & RC SLAB DRAINAGE & RC SLAB State	
3584 NB Invert Drainage & RC.Slab - rightside 650m 54 17 JAN06A 25MAR06 30 100 30 -21 -146 3588 NB Invert Drainage & RC.Slab - leftside 650m 54 17 JAN06A 25MAR06 30 100 30 -21 -146 3588 NB Invert Drainage & RC.Slab - leftside 650m 54 17 JAN06A 25MAR06 30 100 30 29 -128 3585 NB Invert Drainage & RC.Slab - rightside 650m 54 27MAR06 05JUN06 0 100 54 -21 -146 3589 NB Invert Drainage & RC.Slab - leftside 650m 54 20MAY06 24JUL06 0 54 -12 -169	
3584 NB Invert Drainage & RC.Slab - rightside 650m 54 17JAN06A 25MAR06 30 100 30 -21 -146 3588 NB Invert Drainage & RC.Slab - leftside 650m 54 17JAN06A 25MAR06 30 100 30 29 -128 3585 NB Invert Drainage & RC.Slab - rightside 650m 54 27MAR06 05JUN06 0 100 54 -21 -146 3589 NB Invert Drainage & RC.Slab - leftside 650m 54 20MAY06 24JUL06 0 54 -12 -169	
3588 NB Invert Drainage & RC.Slab - leftside 650m 54 17JAN06A 25MAR06 30 100 30 29 -128 3585 NB Invert Drainage & RC.Slab - rightside 650m 54 27MAR06 05JUN06 0 100 54 -21 -146 3589 NB Invert Drainage & RC.Slab - leftside 650m 54 20MAY06 24JUL06 0 54 -12 -169	
3585 NB Invert Drainage & RC.Slab - rightside 650m 54 27MAR06 05JUN06 0 100 54 -21 -146 3589 NB Invert Drainage & RC.Slab - leftside 650m 54 20MAY06 24JUL06 0 54 -12 -169	
3585 NB Invert Drainage & RC.Slab - rightside 650m 54 27MAR06 05JUN06 0 100 54 -21 -146 3589 NB Invert Drainage & RC.Slab - leftside 650m 54 20MAY06 24JUL06 0 54 -12 -169	
3589 NB Invert Drainage & RC.Slab - leftside 650m 54 20MAY06 24JUL06 0 54 -12 -169	
WALL PANELS 3606 NB VE Panel Support System - rightside 650m 23 20FEB06 17MAR06 0 100 23 -194	
3607 NB VE Panel Support System - rightside 650m 23 18MAR06 18APR06 0 100 23 -148 -194	_ /
3608 NB VE Panel Support System - rightside 650m 23 19APR06 17MAY06 0 100 23 -148 -194	
3610 NB VE Panel Support System - leftside 650m 23 18MAY06 14JUN06 0 100 23 -194	
F.S WORKS	
TUNNEL HYDRANT & HOSE REEL 6893 EntRtNb-Wet dist. (HR/Hyd) 1st fix 60 20JAN06A 22APR06 10 100 50 -206	- - /
6899 EntRtNb-Wet dist. (HR/Hyd) 2nd fix 60 24APR06 06JUL06 0 100 60 -70 -206	
ELECTRICAL WORKS	
MAIN & SUB-MAIN DISTRIBUTION	
6897 EntRtNb-HV, LV main & submain dist. 1st fix 84 20FEB06 05JUN06 0 100 84 -116 -210	
	/
FINAL CIRCUIT 7576 EntRtNb-Final circuit 1st fix 96 06MAR06 04JUL06 0 100 96 -92 -224	
TUNNEL / EXTERNAL LIGHTING	
6894 EntRtNb-Tunnel Lgt sys 96 04JAN06A 30MAY06 20 100 80 -124 -200	
ELV WORKS	
ELV MISC. WORKS	
6895 EntRtNb-CMCS&other 90 24APR06 10AUG06 0 100 90 -100 -206	
TUNNEL VENTILATION SYSTEM	
6896 EntRtNb-TVS Tunnel vent. & SE 1st fix 72 04JAN06A 22APR06 30 100 50 -106 -188	_

Act.	Activity	Orig	Early	Early	%	DWP %	Rem	Total	Variance	DEC	JAN	FEB	MAR	APR	MAY	JUN
ID	Description	Dur	Start	Finish		Compl.					28 2 9 16 23	29 30 6 13	20 27 6 13 2	0 27 3 10 17	24 1 8 15 2	22 29 5 12
	ENTILATION				T		1	1	1							
6904	EntRtNb-TVS Tunnel vent. & SE 2nd fix	96	24APR06	17AUG06	0	100	96	-106	-188					l		
	0.0/07514															
	C SYSTEM EntRtNb-TVS pneumatic 1st fix	72	24APR06	20JUL06	0	100	72	-52	-188							
0303		12		2000100		100	12	-52	-100							
TUNNEL	DRIVE SOUTHBOUND				1			1	.1							
TUNNEL	INVERT															
NORTH PC	RTAL															
1913	SB Kicker/form part Service Trough (fr.NP) 213m	30	19JAN06A	19FEB06A	100	100	0		-162							
3150	SB exc.grnd/foul water drain trough 213m(fr.NP)	39	20FEB06	06APR06	0	100	39	25	-210			l				
1600	SB Invert Cleaning (fr NP) 142m	16	20FEB06	09MAR06	0	100	16	21	-227	-		г				
1000	SB Invert Cleaning (fr.NP) 142m	10	ZUFEDUO	USINIARUD	0	100	16	21	-221							
1601	SB Invert Cleaning (fr.NP) 213m	30	10MAR06	18APR06	0	100	30	21	-214	1						
3474	SB Ground water ESG-19 to ESG-20 [102m]	22	13DEC05A	27JAN06A	100	100	0		-74]				
SOUTH PC						100				_						
3743	SB Kicker/form part Service Trough (fr.SP) 150m	22	11DEC05A	21FEB06	90	100	2	-154	-224							
3744	SB Kicker/form part Service Trough (fr.SP) 192m	27	22FEB06	24MAR06	0	100	27	-152	-224	_				•		
5744	SB Rickel/Iom part Service Hough (II.SF) 13211	21	221 LD00	24101/11/00	0	100	21	-152	-224					-		
1583	SB exc.grnd/foul water drain trough 89m(fr.SP)	12	06FEB06A	24FEB06A	100	100	0		-322	-						
									-							
1584	SB exc.grnd/foul water drain trough 150m(fr.SP)	41	20FEB06	08APR06	0	100	41	6	-291							
										_						
1586	SB exc.grnd/foul water drain trough 342m	60	20FEB06	06MAY06	0	100	60	-91	-310							
1011	CD Invert Cleaning (fr CD) 220m				10	100	FF	2	200							
1311	SB Invert Cleaning (fr.SP) 239m	66	06FEB06A	28APR06	10	100	55	-2	-299							
3166	SB Invert Cleaning (fr.SP 342m)	48	13MAR06	13MAY06	0	100	48	-91	-310	-						
5100	ob invert oleaning (ii.or 342iii)	-0	TOMATOO	10007100		100	-0	-31	-510							
3368	SB Foulwater Gulley ESF-1 to ESF-2 [48m]	11	06FEB06A	14FEB06A	100	100	0		-211	-						
	,															
3367	SB Foulwater Gulley ESF-1A to ESF-1 [41m]	9	15FEB06A	22FEB06	50	100	3	-98	-209							
										_						
3369	SB Foulwater Gulley ESF-2 to ESF-3 [50m]	11	20FEB06	03MAR06	0	100	11	-117	-215							
2270	SB Foulwater Gulley ESF-3 to ESF-4 [48m]	14			0	100	11	117	215							
	SD FOUIWALEI GUILEY ESF-3 10 ESF-4 [48M]	11	04MAR06	16MAR06	0	100	11	-117	-215							
3371	SB Foulwater Gulley ESF-4 to ESF-5 [49m]	11	17MAR06	29MAR06	0	100	11	-117	-215	-						
3371 3372																
3372	SB Foulwater Gulley ESF-5 to ESF-6 [49m]	11	30MAR06	12APR06	0	100	11	-117	-215	1						
										1						
3373	SB Foulwater Gulley ESF-6 to ESF-7 [43m]	10	13APR06	27APR06	0		10	-117	-215							

Act.	Activity	Orig	-	Early	%	DWP %			Variance	
ID	Description	Dur	Start	Finish	Compl.	Compl.	Dur	Float	arly Finis	is 12 19 26 2 9 16 23 30 6 13 20 27 6 13 20 27 3 10 17 24 1 8 15 22 29 5 12
3374	RTAL SB Foulwater Gulley ESF-7 to ESF-7A [7m]	6	28APR06	06MAY06	0		6	-117	-215	
3375	SB Foulwater Gulley ESF-7A to ESF-8 [50m]	11	08MAY06	19MAY06	0		11	-117	-215	
3376	SB Foulwater Gulley ESF-8 to ESF-9 [50m]	11	20MAY06	02JUN06	0		11	-117	-215	
3456	SB Ground water ESG-1B to ESG-2 [49m]	11	07FEB06A	15FEB06A	100	100	0		-212	
3454	SB Ground water ESG-1C to ESG-1B [40m]	9	20FEB06	01MAR06	0	100	9	-103	-215	
3457	SB Ground water ESG-2 to ESG-3 [50m]	11	20FEB06	03MAR06	0	100	11	-121	-215	
3455	SB Ground water ESG-1A to ESG-1B	6	02MAR06	08MAR06	0	100	6	-103	-215	
3458	SB Ground water ESG-3 to ESG-4 [48m]	11	04MAR06	16MAR06	0	100	11	-121	-215	
3459	SB Ground water ESG-4 to ESG-5 [49m]	11	17MAR06	29MAR06	0	100	11	-121	-215	
3460	SB Ground water ESG-5 to ESG-6 [49m]	11	30MAR06	12APR06	0	100	11	-121	-215	
	SB Ground water ESG-6 to ESG-7 [50m]	11	13APR06	28APR06	0		11	-121	-215	
3462	SB Ground water ESG-7 to ESG-8 [50m]	11	29APR06	13MAY06	0		11	-121	-215	
	SB Ground water ESG-8 to ESG-9 [50m]	11	15MAY06	26MAY06	0		11	-121	-215	
3464	SB Ground water ESG-9 to ESG-10 [51m]	11	27MAY06	09JUN06	0		11	-121	-215	
TUNNEL										
NORTH PC			1010100			165	6			
	SB NP Arch Lining 175m Tch.1+835 to 1+660 VA	35	10JAN06A	25FEB06	93	100	2	-121	-143	
	SB NP OHVD 150m Tch.1+985 to 1+835	30		23JAN06A	100	100	0		-145	
	SB NP OHVD 175m Tch.1+835 to 1+660 VA	40	21JAN06A	13MAR06	50	100	15	-121	-140	
SOUTH PO	RTAL SB SP Arch Lining 150m Tch.1+363 to 1+513	200	20050054	14550004	100	100	0		174	
	-	30		14FEB06A	100	100	0	450	-174	
	SB SP Arch Lining 130m Tch.1+513 to 1+643	38		06APR06	50	100	15	-152	-179	
	SB SP OHVD 150m Tch.1+213 to 1+363	30	08DEC05A	20JAN06A	100	100	0		-178	
	SB SP OHVD 150m Tch.1+363 to 1+513	30	19JAN06A	22MAR06	46	100	15	-154	-193	
3175	SB SP OHVD 130m Tch.1+513 to 1+643	26	23MAR06	26APR06	0	100	26	-154	-181	

ID Description Duril Finith Compil Compil Duril Pinith Compil Compil Duril Pinith Compil Compil Duril Pinith Compil Compil Pinith Compil Duril Pinith Compil Compil Pinith Compil Compil Pinith Compil Pinith Compil Pinith Pinith Pinith Pinith Pinith Compil Pinith	Act.	Activity	Orig Early	Early	%	DWP %					JAN 28	FEB 29	MAR 30	APR 31	MAY 32	JUN 33
INVESTME SUBJICT 364 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 384 </td <td></td> <td></td> <td>Dur Start</td> <td>Finish</td> <td>Compl.</td> <td>Compl.</td> <td>Dur</td> <td>Float</td> <td>arly Finis</td> <td>12 19 26</td> <td>2 9 16 23</td> <td>30 6 13</td> <td>20 27 6 13 20 2</td> <td>7 3 10 17 24</td> <td>1 8 15 22</td> <td></td>			Dur Start	Finish	Compl.	Compl.	Dur	Float	arly Finis	12 19 26	2 9 16 23	30 6 13	20 27 6 13 20 2	7 3 10 17 24	1 8 15 22	
Side B service trough 150m Tch.2+435 to 2+285 ft.NP 23 17DEC05A 11FE80A 100 100 0 236 3565 SB service trough 150m Tch.2+285 to 2+135 ft.NP 23 12JAN0AA 17TREBOA 100 100 0 211 3665 SB service trough 150m Tch.2+285 to 1+680 ft.NP 23 23 167 219 3667 SB service trough 150m Tch.1+6815 to 1+660 @VA 26 167 191 3570 SB service trough 150m Tch.1+683 to 1+660 @VA 26 167 191 3570 SB service trough 150m Tch.1+683 to 1+213 ft.SP 23 23 DFE806 17MAR06 0 100 23 160 240 3570 SB service trough 150m Tch.1+633 to 1+233 ft.SP 23 15MAR06 0 100 23 190 226 3572 SB service trough 150m Tch.1+633 to 1+233 ft.SP 23 15MAR06 0 100 23 190 226 3572 SB service trough 150m Tch.1+633 to 1+233 ft.SP 23 15MAR06 17MAV06 0 100 23 140 207 3564 SB N200 main 150m Tch.1+633 to 2+265 ft.NP	-															
3565 SB service trough 150m Tch 2+285 to 2+136 fr.NP 23 12JAN06A 17FEB06A 100 0 211 3666 SB service trough 150m Tch 2+133 to 1+885 fr.NP 23 23JAN06A 17MAR06 45 100 23 167 236 3676 SB service trough 150m Tch 1+685 to 1+835 fr.NP 23 18MAR06 18APR06 0 23 167 198 3676 SB service trough 150m Tch 1+635 to 1+830 fr.NP 23 19APR06 0 0 24 167 191 3677 SB service trough 150m Tch 1+630 to 1+213 fr.SP 23 20FEB06 17MAR06 0 100 23 150 233 3777 SB service trough 150m Tch 1+630 to 1+630 fr.SP 23 19APR06 17MAR06 0 100 23 150 233 3777 SB service trough 150m Tch 1+630 to 1+630 fr.SP 23 19APR06 17MAR06 0 100 23 160 237 3845 SB NP 200 main 150m Tch 1+631 to 1+865 fr.SP 23 19APR06 100 23 148 365 3446 SB NP 200 main 150m Tch 2+735 fr.NP			23 17DEC0	A 11FEB06A	100	100	0		-236							
3566 SB service trough 150m Tch.2+135 to 1+895 fr.NP 23 23AAN06A 17MAR06 45 100 23 167 -205 3567 SB service trough 150m Tch.1+965 to 1+835 fr.NP 23 18MAR06 10APR06 0 23 -167 -198 3570 SB service trough 150m Tch.1+053 to 1+213 fr.SP 22 20FEB06 17MAR06 0 100 23 +190 -240 3571 SB service trough 150m Tch.1+053 to 1+213 fr.SP 23 18MAR06 18APR06 0 100 23 +190 -240 3572 SB service trough 150m Tch.1+633 to 1+513 fr.SP 23 18MAR06 14UN06 0 100 23 +190 -240 3573 SB service trough 150m Tch.1+633 to 1+633 fr.SP 23 18MAR06 14UN06 0 100 23 +26 -267 3545 SB NP 200 main 150m Tch.1+633 to 1+633 fr.SP 23 120EC06A 22FEB06 0 100 23 248 -366 3545 SB NP 200 main 150m Tch.1+2438 to 2+285 fr.NP 23 22MAR06 24MAY06 100 23 -284 -388 <td></td> <td></td> <td></td> <td></td> <td></td> <td>100</td> <td>Ŭ</td> <td></td> <td>200</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						100	Ŭ		200							
3567 SB service trough 150m Tch. 1+865 to 1+835 fr.NP 23 18APR06 0 23 -167 -198 3568 SB service trough 150m Tch. 1+835 to 1+800 @VA 26 19APR06 0 100 23 -198 3570 SB service trough 150m Tch. 1+835 to 1+800 @VA 23 18APR06 0 100 23 -190 -240 3571 SB service trough 150m Tch. 1+835 to 1+801 MSP 23 19APR06 0 100 23 -190 -240 3572 SB service trough 150m Tch. 1+833 to 1+831 fr.SP 23 19APR06 0 100 23 -190 -240 3573 SB service trough 150m Tch. 1+833 to 1+851 fr.SP 23 19APR06 17MAY06 0 100 23 -190 -240 3545 SB NP 200 main 150m Tch. 1+833 to 1+851 fr.SP 23 19APR06 0 100 23 -240 -355 3546 SB NP 200 main 150m Tch. 1+235 to 2+855 fr.NP 23 25MAY06 0 100 23 -284 -356 3549 SB NP 200 main 150m Tch. 1+235 to 2+255 fr.NP 23 23MAY06 0	3565	SB service trough 150m Tch.2+285 to 2+135 fr.NP	23 12JAN06	A 17FEB06A	100	100	0		-211	-						
3568 SB service trough 175m Tch. 1+835 to 1+660 @VA 26 19APR06 20MAY06 0 100 22 167 111 3570 SB service trough 150m Tch. 1+03 to 1+213 tr.SP 23 20FEB06 17MAR06 0 100 23 180 -220 3571 SB service trough 150m Tch. 1+213 to 1+363 tr.SP 23 18APR06 7MAY06 0 100 23 180 -228 3572 SB service trough 150m Tch. 1+33 to 1+63 tr.SP 23 18APR06 7MAY06 0 100 23 180 -228 3573 SB service trough 150m Tch.1+363 to 1+513 tr.SP 23 18APR06 7MAY06 0 100 23 180 -207 3545 SB NP 200 main 150m Tch.1+363 to 1+63 tr.SP 23 18MAY06 0 100 23 244 -386 3547 SB NP 200 main 150m Tch.2+735 to 2+385 tr.NP 23 25MAR06 0 100 23 -84 -386 3548 SB NP 200 main 150m Tch.2+735 to 2+385 tr.NP 23 25MAR06 0 100 23 -88 -241 3555 SB P 20	3566	SB service trough 150m Tch.2+135 to 1+985 fr.NP	23 23JAN06	A 17MAR06	45	100	23	-167	-205							
3570 SB service trough 150m Tch.1+083 to 1+213 fr.SP 23 20FEB06 17MAR06 0 100 23 +90 -240 3571 SB service trough 150m Tch.1+213 to 1+363 fr.SP 23 18MAR06 18APR06 0 100 23 +80 -233 3572 SB service trough 150m Tch.1+363 to 1+613 fr.SP 23 18MAR06 1AVAR06 0 100 23 +180 -266 3573 SB service trough 150m Tch.1+313 to 1+663 fr.SP 23 18MAY06 14JUN06 0 100 23 +180 -277 3546 SB NP 200 main 150m Tch.2+856 to 2+735 fr.NP 23 15DEC06A 25FEB06 67 100 6 284 -356 3547 SB NP 200 main 150m Tch.2+435 to 2+435 fr.NP 23 26APR06 0 100 23 284 -356 3548 SB NP 200 main 150m Tch.2+435 to 1+213 fr.SP 23 26APR06 0 100 23 284 -356 3549 SB NP 200 main 150m Tch.1+213 to 1+363 fr.SP 23 26APR06 0 100 23 284 -356 3556 S	3567	SB service trough 150m Tch.1+985 to 1+835 fr.NP	23 18MAR	6 18APR06	0		23	-167	-198	-						
3571 SB service trough 150m Tch.1+213 to 1+363 fr.SP 23 18MAR06 18APR06 0 100 23 -180 -233 3577 SB service trough 150m Tch.1+363 to 1+513 fr.SP 23 19APR06 17MAY06 0 100 23 -190 -226 3573 SB service trough 150m Tch.1+313 to 1+633 fr.SP 23 18MAY06 14JUN06 0 100 23 -190 -207 3545 SB NP 200 main 150m Tch.1+213 to 1+633 fr.SP 23 15DEC05A 25FEB06 67 100 6 -284 -372 3546 SB NP 200 main 150m Tch.2+885 to 2+735 fr.NP 23 25APR06 0 100 23 -284 -366 3547 SB NP 200 main 150m Tch.2+885 to 2+435 fr.NP 23 25APR06 0 100 23 -284 -366 3548 SB NP 200 main 150m Tch.1+063 to 1+213 fr.SP 23 26APR06 0 100 23 -284 -364 3549 SB NP 200 main 150m Tch.1+1063 to 1+213 fr.SP 23 24MAR06 0 100 23 -188 -241 3557 SB SP 200 main 150m	3568	SB service trough 175m Tch.1+835 to 1+660 @VA	26 19APR0	6 20MAY06	0		26	-167	-191	-						
3572 SB service trough 150m Tch.1+363 to 1+513 fr.SP 23 19APR06 17MAY06 0 100 23 190 -226 3573 SB service trough 150m Tch.1+363 to 1+663 fr.SP 23 18MAY06 14JUN06 0 100 23 -190 -226 3573 SB service trough 150m Tch.1+313 to 1+663 fr.SP 23 18MAY06 14JUN06 0 100 23 -190 -207 3545 SB NP 200 main 150m Tch.1+363 to 2+885 fr.NP 23 15DEC05A 25FEB06 67 100 6 -284 -372 3546 SB NP 200 main 150m Tch.2+385 to 2+35 fr.NP 23 27FEB06 24MAR06 0 100 23 -284 -356 3547 SB NP 200 main 150m Tch.2+358 to 2+435 fr.NP 23 25AAP06 24MAY06 0 100 23 -284 -356 3548 SB NP 200 main 150m Tch.1+343 to 2+285 fr.NP 23 25MAP06 24MAY06 0 100 23 -284 -351 3549 SB NP 200 main 150m Tch.1+213 to 1+363 fr.SP 23 24APR06 22MAP06 240 240 -440 -440 </td <td>3570</td> <td>SB service trough 150m Tch.1+063 to 1+213 fr.SP</td> <td>23 20FEB0</td> <td>6 17MAR06</td> <td>0</td> <td>100</td> <td>23</td> <td>-190</td> <td>-240</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	3570	SB service trough 150m Tch.1+063 to 1+213 fr.SP	23 20FEB0	6 17MAR06	0	100	23	-190	-240							
3573 SB service trough 150m Tch.1+513 to 1+663 fr.SP 23 18MAY06 14JUN06 0 100 23 -190 -207 3573 SB service trough 150m Tch.1+513 to 1+663 fr.SP 23 15DEC05A 25FEB06 67 100 6 -284 -372 3546 SB NP 200 main 150m Tch.2+885 to 2+735 fr.NP 23 27FEB06 24MAR06 0 100 23 -284 -385 3547 SB NP 200 main 150m Tch.2+885 to 2+735 fr.NP 23 27FEB06 24MAR06 0 100 23 -284 -385 3548 SB NP 200 main 150m Tch.2+885 to 2+435 fr.NP 23 25MAR06 25APR06 0 100 23 -284 -358 3549 SB NP 200 main 150m Tch.1+2435 to 2+285 fr.NP 23 24MAR06 0 100 23 -188 -244 3555 SB SP 200 main 150m Tch.1+263 to 1+213 fr.SP 23 24MAR06 0 100 23 -188 -241 3556 SB SP 200 main 150m Tch.1+213 to 1+363 fr.SP 23 24MAR06 0 100 23 -188 -241 3556	3571	SB service trough 150m Tch.1+213 to 1+363 fr.SP	23 18MAR	6 18APR06	0	100	23	-190	-233							
3645 SB NP 200 main 150m Tch.3+035 to 2+885 fr.NP 23 15DEC05A 25FE806 67 100 6 -284 -372 3646 SB NP 200 main 150m Tch.2+885 to 2+735 fr.NP 23 27FEB06 24MAR06 0 100 23 -284 -365 3547 SB NP 200 main 150m Tch.2+885 to 2+735 fr.NP 23 25MAR06 25APR06 0 100 23 -284 -356 3548 SB NP 200 main 150m Tch.2+885 to 2+435 fr.NP 23 25MAR06 25APR06 0 100 23 -284 -351 3549 SB NP 200 main 150m Tch.2+435 to 2+2435 fr.NP 23 25MAR06 24MAY06 0 100 23 -284 -351 3549 SB NP 200 main 150m Tch.1+2435 to 2+285 fr.NP 23 25MAY06 0 100 23 -284 -344 3555 SB SP 200 main 150m Tch.1+213 tr.SP 23 24APR06 22MAY06 0 100 23 -188 -241 3557 SB SP 200 main 150m Tch.1+513 to 1+663 fr.SP 23 23MAY06 19UN06 0 100 23 -188 -241	3572	SB service trough 150m Tch.1+363 to 1+513 fr.SP	23 19APR0	6 17MAY06	0	100	23	-190	-226							
3346 SB NP 200 main 150m Tch.2+885 to 2+735 fr.NP 23 27FEB06 24MAR06 0 100 23 -284 -365 3547 SB NP 200 main 150m Tch.2+735 to 2+585 fr.NP 23 25MAR06 25APR06 0 100 23 -284 -358 3548 SB NP 200 main 150m Tch.2+355 to 2+435 fr.NP 23 26APR06 24MAY06 0 100 23 -284 -358 3548 SB NP 200 main 150m Tch.2+355 to 2+435 fr.NP 23 25MAY06 21JUN06 0 100 23 -284 -344 3555 SB SP 200 main 150m Tch.1+063 to 1+213 fr.SP 23 24FEB06 22MAR06 0 100 23 -188 -248 3566 SB SP 200 main 150m Tch.1+213 to 1+363 tr.SP 23 24FEB06 22MAY06 0 100 23 -188 -241 3567 SB SP 200 main 150m Tch.1+363 to 1+513 fr.SP 23 24APR06 22MAY06 0 100 23 -188 -241 3564 SB & VA - 50% TCSS Contain't from NP KD6 66 15MAY06 0 100 23 -188 -241 <	3573	SB service trough 150m Tch.1+513 to 1+663 fr.SP	23 18MAY	6 14JUN06	0	100	23	-190	-207	-						
3547 SB NP 200 main 150m Tch.2+735 to 2+385 fr.NP 23 25MAR06 25APR06 0 100 23 -284 -356 3548 SB NP 200 main 150m Tch.2+585 to 2+435 fr.NP 23 26APR06 21JUN06 0 100 23 -284 -356 3549 SB NP 200 main 150m Tch.2+435 to 2+285 fr.NP 23 25MAY06 21JUN06 0 100 23 -284 -351 3549 SB NP 200 main 150m Tch.1+063 to 1+213 fr.SP 23 24FEB06 22MAR06 0 100 23 -188 -248 3555 SB SP 200 main 150m Tch.1+213 to 1+363 fr.SP 23 24APR06 22MAR06 0 100 23 -188 -241 3557 SB SP 200 main 150m Tch.1+213 to 1+663 fr.SP 23 24APR06 22MAY06 0 100 23 -188 -241 3565 SB SP 200 main 150m Tch.1+513 to 1+663 fr.SP 23 24APR06 0 100 23 -188 -241 35642 SB & VA - S0% TCSS Contain't from NP KD6 6 20FEB06 13MAY06 0 100 66 -224 -241 <	3545	SB NP 200 main 150m Tch.3+035 to 2+885 fr.NP	23 15DEC0	5A 25FEB06	67	100	6	-284	-372							
3548 SB NP 200 main 150m Tch.2+585 to 2+435 fr.NP 23 26APR06 24MAY06 0 100 23 -284 -351 3549 SB NP 200 main 150m Tch.2+435 to 2+285 fr.NP 23 25MAY06 21JUN06 0 23 -284 -344 3555 SB SP 200 main 150m Tch.1+063 to 1+213 fr.SP 23 24FEB06 22MAR06 0 100 23 -188 -248 3556 SB SP 200 main 150m Tch.1+213 to 1+363 fr.SP 23 24APR06 22MAR06 0 100 23 -188 -241 3557 SB SP 200 main 150m Tch.1+363 to 1+513 fr.SP 23 24APR06 22MAY06 0 100 23 -188 -234 3558 SB SP 200 main 150m Tch.1+363 to 1+513 fr.SP 23 24APR06 22MAY06 0 100 23 -188 -234 3568 SB SP 200 main 150m Tch.1+363 fr.SP 23 23MAY06 19JUN06 0 100 23 -188 -234 3643 SB & VA - 80% TCSS Contain't NP KD6 66 15MAY06 01AUG06 0 100 66 -224 -241	3546	SB NP 200 main 150m Tch.2+885 to 2+735 fr.NP	23 27FEB0	6 24MAR06	0	100	23	-284	-365							
Image: A registry of the second se	3547	SB NP 200 main 150m Tch.2+735 to 2+585 fr.NP	23 25MAR	6 25APR06	0	100	23	-284	-358				•			
Image: Normal Problem Image: Norma Problem Image: Norma Probl	3548	SB NP 200 main 150m Tch.2+585 to 2+435 fr.NP	23 26APR0	6 24MAY06	0	100	23	-284	-351							
3556 SB SP 200 main 150m Tch.1+213 to 1+363 fr.SP 23 23MAR06 22APR06 0 100 23 -188 -241 3557 SB SP 200 main 150m Tch.1+363 to 1+513 fr.SP 23 24APR06 22MAY06 0 100 23 -188 -234 3557 SB SP 200 main 150m Tch.1+363 to 1+513 fr.SP 23 24APR06 22MAY06 0 100 23 -188 -234 3558 SB SP 200 main 150m Tch.1+513 to 1+663 fr.SP 23 23MAY06 19JUN06 0 100 23 -188 -234 3642 SB & VA - 50% TCSS Contain't from NP KD6 66 20FEB06 13MAY06 0 100 66 -224 -241 0RAINAGE & RC SLAB 22MOV05A 14FEB06A 100 100 0 -79 -79 -79 -79	3549	SB NP 200 main 150m Tch.2+435 to 2+285 fr.NP	23 25MAY0	6 21JUN06	0		23	-284	-344							
3557 SB SP 200 main 150m Tch.1+363 to 1+513 fr.SP 23 24APR06 22MAY06 0 100 23 -188 -234 3558 SB SP 200 main 150m Tch.1+513 to 1+663 fr.SP 23 23MAY06 19JUN06 0 100 23 -188 -215 3642 SB & VA - 50% TCSS Contain't from NP KD6 66 20FEB06 13MAY06 0 100 66 -224 -242 3643 SB & VA - Remain 50% TCSS Contain't NP KD6 66 15MAY06 01 AUG06 0 100 66 -224 -241 DRAINAGE & RC SLAB URAINAGE & RC SLAB	3555	SB SP 200 main 150m Tch.1+063 to 1+213 fr.SP	23 24FEB0	6 22MAR06	0	100	23	-188	-248							
3558 SB SP 200 main 150m Tch.1+513 to 1+663 fr.SP 23 23MAY06 19JUN06 0 100 23 -188 -215 3642 SB & VA - 50% TCSS Contain't from NP KD6 66 20FEB06 13MAY06 0 100 66 -224 -242 3643 SB & VA - Remain 50% TCSS Contain't NP KD6 66 15MAY06 0 100 66 -224 -242 DRAINAGE & RC SLAB U 3574 SB Invert Drainage & RC.Slab - rightside 650m 54 22NOV05A 14FEB06A 100 0 -79	3556	SB SP 200 main 150m Tch.1+213 to 1+363 fr.SP	23 23MAR	6 22APR06	0	100	23	-188	-241							
3642 SB & VA - 50% TCSS Contain't from NP KD6 66 20FEB06 13MAY06 0 100 66 -224 -242 3643 SB & VA - Remain 50% TCSS Contain't NP KD6 66 15MAY06 0 100 66 -224 -241 DRAINAGE & RC SLAB Image & RC.Slab - rightside 650m 54 22NOV05A 14FEB06A 100 100 0 -79	3557	SB SP 200 main 150m Tch.1+363 to 1+513 fr.SP	23 24APR0	6 22MAY06	0	100	23	-188	-234							
3643 SB & VA - Remain 50% TCSS Contain't NP KD6 66 15MAY06 01AUG06 0 100 66 -224 -241	3558	SB SP 200 main 150m Tch.1+513 to 1+663 fr.SP	23 23MAY0	6 19JUN06	0	100	23	-188	-215							
DRAINAGE & RC SLAB SB Invert Drainage & RC.Slab - rightside 650m 54 22NOV05A 14FEB06A 100 0 -79	3642	SB & VA - 50% TCSS Contain't from NP KD6	66 20FEB0	6 13MAY06	0	100	66	-224	-242							
3574 SB Invert Drainage & RC.Slab - rightside 650m 54 22NOV05A 14FEB06A 100 0 -79	3643	SB & VA - Remain 50% TCSS Contain't NP KD6	66 15MAY0	6 01AUG06	0	100	66	-224	-241							
					· -	I	1			-						
3575 SB Invert Drainage & RC.Slab - rightside 650m 54 22NOV05A 14FEB06A 100 100 0 -25						100			-79							
	3575	SB Invert Drainage & RC.Slab - rightside 650m	54 22NOV0	5A 14FEB06A	100	100	0		-25							

ID DRAINAGE	Description		Early	Early	%	DV11 /0	Kem	Total	Variance	27		28	29		30	31	32	JUN 33
DRAINAGE	•	Dur	Start	Finish	Compl.	Compl.	Dur	Float	arly Finis	27 12 19 26	29	_16 _23 _3	0 6 13			3 10 17 24 1		
					-			I										
3578 5	SB Invert Drainage & RC.Slab - leftside 650m	54	17JAN06A	18APR06	25		40	-19	-69									
0570 (F 4	47 14 100 4	07.11.10.00	05		40	10		-								
3579 5	SB Invert Drainage & RC.Slab - leftside 650m	54	17JAN06A	07JUN06	25		40	-19	-55				1					
	OUND & VENTILATION ADIT TUNNEL																	
FS Works										-								
	/DRANT & HOSE REEL EntRtSb&VA-Wet dist. (HR/Hyd) 1st fix	60	03APR06	19JUN06	0	100	60	-146	-258									
0//4 E	ENTRISD&VA-WEI DISL (HR/Hyd) ISLIIX	60	UJAPRUD	1910100	0	100	60	-140	-208									
	CAL WORKS				1		1	1 1										
1	3-MAIN DISTRIBUTION																	
	EntRtSb&VA-HV, LV main & submain dist. 1st fix	96	10JAN06A	30MAY06	2	100	80	-112	-206	-								
					_				200									
FINAL CIRC			1															
7571 E	EntRtSb&VA-Final circuit 1st fix	96	06MAR06	04JUL06	0	100	96	-116	-233									
										-								
6811 E	EntRtSb&VA-Tunnel Lgt & VA lgt sys 1st fix	96	04JAN06A	24MAY06	10	100	75	-125	-198									
ELV WOR																		
	EntRtSb&VA-CMCS&other ELV 1st fix & Misc	00	20JAN06A	04OCT06	2		90	-146	-258									
0703		30	ZUJANUUA	0400100	2		30	-140	-230									
	VENTILATION SYSTEM	1	1		1		1	1 1										
TUNNEL VE																		
	EntRtSb&VA-TVS Tunnel vent. & SE 1st fix	72	10JAN06A	09MAY06	20	100	62	-118	-212									
6769 E	EntRtSb&VA-TVS Tunnel vent. & SE 2nd fix	96	10MAY06	31AUG06	0	100	96	-118	-212									
PNEUMATIC					-					-								
6771 E	EntRtSb&VA-TVS pneumatic 1st fix	72	20JAN06A	03AUG06	2	100	72	-58	-212									
	PASSAGES																	
	GE LINING				1		1	1 1										
2606 l	nvert Clean & Lining to CP.5	10	17DEC05A	07FEB06A	100	100	0		-164									
			0.5.14.140.0.4		100	100				-								
2607 1	nvert Clean & Lining to CP.6	10	05JAN06A	18FEB06A	100	100	0		-164									
2000	nuert Clean & Lining to CD 9	10	44141004		100	100	0		400	-								
2602	nvert Clean & Lining to CP.8	10	14JAN06A	06FEB06A	100	100	0		-183									
X-DASSA	GE INVERT				I	I	I											
	nvert Lining to CP.4	8	24JAN06A	24JAN06A	100	100	0		-149	-								
2023	INVERT LINING ID OF .4	0		24JANU0A	100	100	0		-149			لمطلب						
2622 1	nvert Lining to CP.8	8	17FEB06A	20FEB06A	100	100	0		-175	-								
		Ŭ		LOILDOUA	100	100			110					T				
a		-			1	1		. 1					I			ı — I		!

Act.	Activity	Orig	Early	Early	%	DWP %	Rem	Total	Variance	DEC	JAN	FEB	3	MAR	APR	MAY	JUN
ID	Description	Dur	Start	Finish	Compl.	Compl.	Dur	Float	arly Finis	27 12 19 26	28	30 6 13	20 2	30 7 ₁ 6 ₁ 13 20 27	31 3 10 17 24	32 1 8 15 22 29	33 5 12
X-PASS	AGE INVERT																
2626	Invert Lining to CP.5	8	22FEB06	02MAR06	0	100	8	-140	-164								
2627	Invert Lining to CP.6	8	06MAR06	14MAR06	0	100	8	-142	-164								
X-PASS	AGE FINISHING WORKS	II				1	1	1 1									
	Construct Rooms (incl.ABWF) at CP.11	24	24JAN06A	25JAN06A	100	100	0		-181								
2644	Construct Rooms (incl.ABWF) at CP.3	24	17FEB06A	18FEB06A	100	100	0		-159								
2645	Construct Rooms (incl.ABWF) at CP.4	24	18FEB06A	23FEB06	0	100	4	-96	-138								
2641	Construct Rooms (incl.ABWF) at CP.9	24	20FEB06A	23FEB06	0	100	4	-96	-158				•••				
2640	Construct Rooms (incl.ABWF) at CP.10	24	20FEB06	18MAR06	0	100	24	-140	-207								
2643	Construct Rooms (incl.ABWF) at CP.2	24	06MAR06	01APR06	0	100	24	-140	-207								
2647	Construct Rooms (incl.ABWF) at CP.6	24	22MAR06	22APR06	0	100	24	-142	-164								
2642	Construct Rooms (incl.ABWF) at CP.8	24	10MAY06	07JUN06	0	100	24	-208	-230								
TESTIN	G & COMMISSIONING																
EAGLE'	S NEST TUNNEL																
STATUT	ORY INSPECTIONS																
FSD INSP					-		-							•			
	EntRt-All FS design approved by FSD (MHJV)	0	13MAR06		0	100	0	-146	-258					•			
6918	EntRt-Issue, endorse & submit FSI 314 to FSD	6	27MAR06	01APR06	0	100	6	-146	-258								
VENTIL	ATION ADIT & BUILDING																
SUBMIT	TALS & APPROVALS																
ABWF 8	BUILDER'S WORKS																
1971	VA Bldg Prep & submit door & window detail	90	03FEB05A	14FEB06A	100	100	0		-206								
1974	VA Bldg Approve louvre details	24	07APR05A	04MAR06	50	100	12	-132	-258								
1989	VA Bldg Prep & sub fall arrest system	90	19APR05A	14FEB06A	100	100	0		-152								
1972	VA Bldg Approve door & window details	24	07MAY05A	04MAR06	0	100	12	-126	-198								
1991	VA Bldg Approve slate cladding	24	15JUN05A	04MAR06	50	100	12	-132	-258		<u> </u>						
1990	VA Bldg Approve fall arrest system	24	140CT05A	14FEB06A	100	100	0		-128								
	1	I		1	1	1		1 1		ļ	1		-				L

	Activity Description BUILDER'S WORKS	Orig Dur	Early Start	Early	%	DWP %	Rem	TULAI	valialite	
ABWF &	BUILDER'S WORKS		Jan	Finish	Compl.	Compl.	Dur	Float	arlv Finis	27 28 29 30 31 32 12 19 26 2 9 16 23 30 6 13 20 27 6 13 20 27 3 10 17 24 1 8 15 22 29 5
					1			1		
	/A Bldg Approve aluminium cladding	24	13DEC05A	04MAR06	0	100	12	-102	-258	
1976 V	/A Bldg Approve balustrade & metal works	24	10JAN06A	13FEB06A	100	100	0		-239	
E&M EQ	PT./MTRL.DETAIL SUBMITTAL	_								
	/aBldg-Sub.MVAC MCC, power & control sys	54	02JUL04A	14MAR06	95	100	20	-129	-289	
8231 V	/aBldg-Sub.FS AFA & FM200 sys	54	05JUL04A	24FEB06	99	100	5	-17	-214	
8228 V	/aBldg-Sub.FS wet sys	54	05AUG04A	24FEB06	99	100	5	-47	-214	
8233 V	/aBldg-Sub.MVAC / TVF pneumatic sys	54	14AUG04A	02MAR06	95	100	10	-63	-141	
8230 V	/aBldg-Sub.CMCS & ELV sys	78	26AUG04A	02MAR06	98	100	10	-125	-237	
8235 V	/aBldg-Sub.PD irrig. sys	54	04FEB05A	02MAR06	85	100	10	-71	-237	
E&M EQ	PT./MTRL.APPROVAL BY ENGINEER		р		1	1				
	/aBldg-App. building related luminaires	18	18AUG04A	11MAR06	90	100	18	-31	-251	
6581 V	/aBldg-App. FS wet sys	18	04SEP04A	11MAR06	80	100	18	-47	-209	
6590 V	/aBldg-App. FS AFA & FM200 sys	18	14SEP04A	11MAR06	85	100	18	-17	-209	
6587 V	/aBldg-App. of CMCS & ELV sys	18	20SEP04A	11MAR06	88	100	18	-125	-227	
6582 V	/aBldg-App. MVAC mech.vent. sys	18	23SEP04A	11MAR06	80	100	18	-197	-257	
6580 V	/aBldg-App. PD all fresh & flush water sys	18	04NOV04A	11MAR06	85	100	18	-53	-221	
6864 V	/6aBldg-App. MVAC MCC, power & control sys	18	12NOV04A	11MAR06	80	100	18	-129	-269	
6857 V	/aBldg-App. MVAC / TVF pneumatic sys	18	07MAR05A	15AUG06	80		18	-179	-257	
7590 V	/aBldg-App. PD irrig. sys	18	05MAY05A	11MAR06	30	100	18	-71	-227	
PROCUR	EMENT									
ARCHITE										
	A Bldg Procure aluminium cladding	30	19APR05A	04MAR06	0	100	12	-122	-136	
2035 V	/A Bldg Initial delivery balust & metal works	0	07MAR06		0		0	-97	0	
2034 V	/A Bldg Initial delivery fall arrest system	0	22MAR06		0	100	0	-110	0	
2032 V	/A Bldg Initial delivery doors & windows	0	11APR06		0	100	0	-126	0	

Act.	Activity	Orig	-	Early	%	DWP %	Rem	Total	Variance	DEC 27	JAN 28 2 9 16 23	FEB 29		MAR 30	APR 31	MAY 32	JUN 33
	Description	Dur	Start	Finish	Compl.	Compl.	Dur	Float	arly Finis	12 19 26	2 9 16 23	30 6 13	20 27 6	13 <mark>20 27</mark>	<u>3</u> 10 17 24	1 <mark>8 ¦15 ¦22 ¦</mark> 2	29 <mark>5 1</mark> 2
	ECTURAL VA Bldg Initial delivery aluminium cladding	0	10MAY06		0		0	-122	0							•	
2000		Ŭ			Ŭ												
2031	VA Bldg Initial delivery slate cladding	0	22MAY06		0		0	-132	0							•	
2033	VA Bldg Initial delivery louvres	0	22MAY06		0		0	-132	0							•	
E&M MA	TERIALS																
6584	VaBldg-Proc & Manuf. LV power dist. equip't	180	20MAR05A	14JUN06	40	100	90	-73	-151								
6583	VaBldg-Proc. & Manuf. of HV dist. equip't	180	25MAR05A	16MAY06	90	100	20	-55	-151								
6591	VaBldg-Proc. & Manuf. of CMCS & ELV sys	180	25MAR05A	22AUG06	20	100	150	-125	-179								
6636	VaBldg-Proc & Manuf. FS AFA & FM200 sys	120	25MAR05A	18JUL06	40	100	90	-47	-191								
6865	VaBldg-Proc & Manuf. MCC, power & control sys	180	25MAR05A	22AUG06	20	100	150	-129	-221								
6586	VaBldg-Proc & Manuf. FS wet sys	120	06JUN05A	18JUL06	30	100	120	-47	-191								
6851	VaBldg-Proc & Manuf. TVF, Ductwks & Cont'l sys	180	09JUN05A	18JUL06	40	80	120	-47	-111								
6585	VaBldg-Proc & Manuf. PD fresh & flush water sys	120	30SEP05A	04JUL06	10	100	90	-53	-191								
8496	VaBldg-Proc & Manf bldg related luminaires	180	23NOV05A	21JUN06	90	100	50	-61	-151								
8516	VaBldg-Proc & Manuf. MVAC Package AC Units	120	11JAN06A	24NOV06	10		60	-143	-257								
6588	VaBldg-Proc & Manuf. MVAC mech.vent. sys	180	13MAR06	19OCT06	0	100	180	-197	-257								
7591	VaBldg-Proc & Manuf. PD irrig. sys	120	13MAR06	08AUG06	0	100	120	-71	-227								
MAJOR	EQUIPMENT DELIVERY					I											
	VaBldg-Del. HV power dist. equip't to 2/F	48	20FEB06A	13JUL06	40		48	-55	-151								
E&M AC	CESS DATES																
VENTIL	ATION BUILDING																
1848	Int M/S - Vent Adit - E&M access to plenum	0		22APR06	0	100	0	-1	-186						•		
1818	Int M/S - Vent Adit - E&M G/F access	0		13MAY06	0		0	-65	-185							•	
1844	Int M/S - Vent Adit - E&M 1/F access	0		13MAY06	0		0	-65	-163							•	
1845	Int M/S - Vent Adit - E&M 2/F access	0		29MAY06	0		0	-54	-159							┥	

Act.	Activity	Orig	Early	Early	%	DWP %	Rem	Total	Variance	DEC	JAI	1	FEB		MAR	APR	MAY	JUN
ID	Description	Dur	Start	Finish							2 9 1	5 23 30	29	20 2	<u> </u>	31 3 10 17 24	32 1 8 15 22 29	33
CONST	RUCTION WORKS	1											- I* - I *					
ADIT TU	INNEL																	
TUNNEL	LINING																	
	VA Form Portal Transition Structure VA Bldg.	18	15DEC05A	11MAR06	60	100	18	-104	-231									
VA TRAN	NSITION STRUCTURE				1													
	VA RC Tnl Interface Lower part	40	18NOV05A	14MAR06	50	100	20	-142	-229									
											_							
1924	VA RC Tnl Interface upper part	88	16JAN06A	22APR06	10	100	50	-142	-171									
SUBSTR	RUCTURE					1												
6589	VaBldg Drainage & Earth mat	48	23APR05A	18MAR06	60	100	24	-168	-261									
SUPERS	STUCTURE	1	I I		1	I		1 1										
RC WO	RKS																	
1541	VA Bldg.RC S/Slab 1FL.GL.C-F/1-6 +116.70mPD	16	29DEC05A	23FEB06	90	100	4	-168	-182									
1542	VA Bldg.RC Walls/Cols to 2FL GL.C-F/1-6	16	20FEB06	09MAR06	0	100	16	-168	-186									
1543	VA Bldg.RC S/Slab 2FL GL.C-F/1-6 +124.95mPD	16	01MAR06	18MAR06	0	100	16	-168	-186									
1544	VA Bldg.RC Walls/Cols to URFL GL.C-F/1-6	16	10MAR06	28MAR06	0	100	16	-168	-186									
1545	VA Bldg.RC S/Slab URFL +131.65mPD	12	25MAR06	08APR06	0	100	12	-152	-186									
1548	VA Bldg.RC.Walls/Cols to 1F GL.A-C/1-6	14	19NOV05A	03MAR06	50	100	11	-142	-150									
1549	VA Bldg.RC S/Slab 1FL.GL.A-C/1-6 +116.70mPD	10	19DEC05A	21MAR06	20	100	26	-142	-159									
1550	VA Bldg.RC Walls/Cols to 2FL GL.A-C/1-6	10	17MAR06	28MAR06	0	100	10	-129	-159									
1551	VA Bldg.RC S/Slab 2FL GL.A-C/1-6 +124.95mPD	12	28MAR06	11APR06	0	100	12	-129	-159									
STRUCT		1				I												
	VA Bldg.Struct.Steelworks URFL +131.65mPD	24	06APR06	09MAY06	0	100	24	-152	-186									
1561	VA Bldg Crane Beam to underside of 1FL & test	18	13APR06	09MAY06	0	100	18	-61	-159									
1560	VA Bldg Crane Beam to underside of 2FL & test	18	09MAY06	29MAY06	0	100	18	-54	-159									
ARCHIT	ECTURAL & BUILDER'S WORKS																	
	G & EXTERNAL FACADE																	
	VA.Bldg.Roof W/Proofing & Testing	30	10MAY06	14JUN06	0		30	-152	-186									
1809	VA.Bldg. Ext Doors & Windows	24	10MAY06	07JUN06	0		24	-146	-186									

Act.	Activity	Orig	Early	Early	%	DWP %	Pom	Total	Varianco	DEC	JAN	FE	в	MAR	APR	MAY	JUN
ID		Dur	Start	Finish		Compl.	Dur	Float	arly Finis	07	28 2 9 16 23	29	20 2	30 7 6 13 20 27	31 3 10 17 24	32 1 8 15 22 2	33
	R'S WORKS				1			1	,	12 13 20			20 2		5 10 17 24		5 12
l r		16	29MAR06	20APR06	0	100	16	-168	-186								
1554	VA.Bldg.Plinths LPL.	18	29MAR06	22APR06	0	100	18	-158	-186								
1643	VA.Bldg. Wet Trades GL	18	21APR06	13MAY06	0	100	18	-168	-185								
1555	VA.Bldg.Plinths GFL.	8	24APR06	03MAY06	0	100	8	-158	-186								
1644	VA.Bldg. Wet Trades 1F/L	16	24APR06	13MAY06	0	100	16	-158	-175								
1645	VA.Bldg. Wet Trades 2F/L	16	03MAY06	22MAY06	0	100	16	-129	-159								
1556	VA.Bldg.Plinths 1F/L	8	04MAY06	13MAY06	0	100	8	-158	-186								
E&M VE	ENT ADIT TUNNEL	1			1	1	1	1 1									
TCSS C	ONTAINMENT				1	T	r										
8482	VA.Bldg TCSS Contain't for KD6	24	26APR06	25MAY06	0	100	24	-168	-185								
TESTIN	G & COMMISSIONING																
VENTIL	ATION BUILDING																
STATUT	ORY INSPECTIONS																
	INSPECTION				1	1	I										
6650	VaBldg-All FS design approved by FSD (MHJV)	0	10MAY06		0		0	-79	-139							•	
6662	VaBldg-Issue, endorse & submit FSI 314 to FSD	6	24MAY06	30MAY06	0		6	-79	-139								
ENT NO	ORTH PORTAL VENTILATION BUILDING																
SUBMI	ITALS & APPROVALS																
E&M EC	PT.& MATERIAL.SUBMITTALS																
8260	EntNpBldg-Sub.MVAC MCC, power & control sys	54	02JUL04A	14MAR06	95	100	20	-156	-328								
8257	EntNpBldg-Sub.FS AFA & FM200 sys	54	05JUL04A	24FEB06	99	100	5	-26	-161								
8253	EntNpBldg-Sub.FS wet sys	54	05AUG04A	24FEB06	99	100	5	-26	-245								
8259	EntNpBldg-Sub.MVAC / TVF pneumatic sys	54	14AUG04A	11MAR06	95	100	18	-62	-134								
8255	EntNpBldg-Sub.CMCS & ELV sys	78	28AUG04A	14MAR06	98	100	20	-108	-262								
E&M EG	PT.& MATERIAL APPROVALS					I											
		18	18AUG04A	25FEB06	90	100	6	-90	-252								
6199	EntNpBldg-App. FS wet sys	18	04SEP04A	25FEB06	80	100	6	-26	-228	-							
	1				1	1	1			J					1	I	I

Act.	Activity	Orig	Early	Early	%	DWP %	Rem	Total	Variance	DEC	JAN		FEB	MAR	APR	MAY	JUN
ID	Description	Dur	Start	Finish	Compl	Compl.	Dur	Float	arly Finis	27 12 19 26	28 2 9 16 2	3 30 6	13 20	30 27 6 13 20 27	31 3 10 17 24	32 1 8 15 22 2	33 9 5 12
E&M EQ	PT.& MATERIAL APPROVALS																
6210	EntNpBldg-App. FS AFA & FM200 sys	18	14SEP04A	25FEB06	85	100	6	-26	-144								
6203	EntNpBldg-App. CMCS & ELV sys	18	20SEP04A	25FEB06	88	100	6	-108	-230					I			
6200	EntNpBldg-App. MVAC mech.vent. sys	18	23SEP04A	25FEB06	80	100	6	-178	-308								
6198	EntNpBldg-App. PD cleans. & flush water sys	18	04NOV04A	25FEB06	85	100	6	-32	-246								
6837	EntNpBldg-App. MVAC MCC, power & control sys	18	12NOV04A	25FEB06	80	100	6	-156	-296				-				
6830	EntNpBldg-App. MVAC / TVF pneumatic sys	18	07MAR05A	09MAY06	80	100	6	-100	-160								
ABWF W	IOPKS				1	1		1									
	NP.Bldg Prep & submit louvre details	24	19NOV04A	04MAR06	50	100	12	-83	-350								
1959	NP.Bldg Prep & sub aluminium cladding	24	19NOV04A	04MAR06	50	100	12	-85	-350								
1970	NP.Bldg Prep & submit slate cladding	24	19NOV04A	04MAR06	50	100	12	-113	-350								
1946	NP.Bldg Prep & submit door & window detail	24	17FEB05A	04MAR06	50	100	12	661	-282								
1954	NP.Bldg Approve door & window details	24	06APR05A	04MAR06	50	100	12	-53	-258								
1956	NP.Bldg Approve louvre details	24	08APR05A	04MAR06	50	100	12	-83	-326								
1963	NP.Bldg Approve slate cladding	24	15JUN05A	04MAR06	50	100	12	-113	-326								
1962	NP.Bldg Approve fall arrest system	24	140CT05A	14FEB06A	100	100	0		-250								
1960	NP.Bldg Approve aluminium cladding	24	13DEC05A	04MAR06	0	100	12	-85	-326								
1958	NP.Bldg Approve balustrade & metal works	24	10JAN06A	13FEB06A	100	100	0		-259								
PROCU	REMENT - MATERIAL																
ABWF V																	
1967	NP.Bldg Procure aluminium cladding	180	18JAN05A	04MAR06	50	100	12	-85	-146								
2052	NP.Bldg Initial delivery balust & metal works	0	25MAR06		0		0	-34	0					•			
2039	NP.Bldg Initial delivery doors & windows	0	11APR06		0		0	-53	0						•		
2049	NP.Bldg Initial delivery louvre	0	11APR06	<u></u>	0		0	-83	0						•		
2053	NP.Bldg Initial delivery fall arrest system	0	02MAY06		0		0	-43	0						.	•	

Act.	Activity	Orig Early	Early	%	DWP %	Rem	Total	Variance	DEC	JAN	FEB	M/		APR	MAY	JUN
ID	Description	Dur Start	Finish		Compl.	Dur	Float	arly Finis	27 12 19 26	28 2 9 16 23	29 30 6 13 2	3 0 27 6 13	0 20 27	31 3 10 17 24	32 1 8 15 22	33 29 5 12
ABWF W				1		1										
2050	NP.Bldg Initial delivery aluminium cladding	0 10MAY06		0		0	-85	0							•	
2051 1	NP.Bldg Initial delivery slate cladding	0 22MAY06		0		0	-113	0							•	
E&M WO	RKS															
6202 F	EntNpBldg-Proc & Manuf. LV power dist. equip't	180 20MAR05A	12JUN06	40	100	90	-122	-170								
6201 F	EntNpBldg-Proc. & Manuf. of HV dist. equip't	180 25MAR05A	06MAY06	90	100	60	-86	-176								
6208 F	EntNpBldg-Proc. & Manuf. of CMCS & ELV sys	180 25MAR05A	29JUL06	20	100	130	-108	-174								
6269 F	EntNpBldg-Proc & Manuf. FS AFA & FM200 sys	120 25MAR05A	19AUG06	40	100	90	-78	-166								
6838 F	EntNpBldg-Proc & Manuf. MCC, power & control sys	180 25MAR05A	29JUL06	20	100	130	-156	-240								
6205 F	EntNpBldg-Proc & Manuf. FS wet sys	120 06JUN05A	12JUN06	30	100	90	-26	-192								
6824 F	EntNpBldg-Proc & Manuf. TVF, Ductwks&Cont'l sys	180 09JUN05A	25JUL06	40	100	80	-104	-180								
6204 F	EntNpBldg-Proc & Manuf. Cleans & flush water sys	120 30SEP05A	19JUN06	10	100	90	-32	-216								
8500 F	EntNpBldg-Proc & Manf bldg related luminaires	180 23NOV05A	05AUG06	90	100	130	-90	-202								
6206 F	EntNpBldg-Proc & Manuf. MVAC mech.vent. sys	180 06JAN06A	17AUG06	20	100	140	-178	-268								
6230 F	EntNpBldg-Proc & Manuf. MVAC Package AC Units	120 11JAN06A	21SEP06	10		80	-94	-148								
6831 F	EntNpBldg-Proc & Manuf. MVAC / TVF pneumatic sys	120 10MAY06	28SEP06	0		120	-100	-160					1			
MAJOR	EQUIPMENT DELIVERY															
	RTH PORTAL BUILDING															
	EntNpBldg-Del. HV power dist. equip't to 2/F	48 08MAY06	04JUL06	0		48	-86	-176								
INTERF/	ACE MILESTONES															
	PORTAL BUILDING															
	Int M/S - ENT NPB - E&M 2/F access	0	12APR06	0	100	0	-106	-166						•		
6219 F	EntNpBldg-E&M access to 2/F	0 13APR06*		0	100	0	-106	-148						•		
1834 I	Int M/S - ENT NPB - E&M 3/F access	0	09MAY06	0		0	-100	-166							•	
1837 I	Int M/S - ENT NPB - E&M Ext.Elev access	0	09MAY06	0		0	-40	-170							•	
6213 I	EntNpBldg-E&M access to 3/F	0 10MAY06*		0		0	-100	-166							•	

A -1	A - this it is	Ortic	F and a	F a shu	0/		Dave	T - 4 - 1	\	DEC	JAN	FEB	MAR	APR	MAY	JUN
Act.	Activity Description	Orig Dur		Early Finish		DWP % Compl.				27	28 2 9 16 23	20	30 20 ,27 ,6 ,13 ,20 ,27	31	32	33 29 5 12
	PORTAL BUILDING	12 0.	Clart		o op.i	Compil	2		,,	12 19 20		jo 0 13			ρ ₁ 5 <u>2</u> 2	29 0 12
	EntNpBldg-E&M access to External Elevation	0	10MAY06*		0		0	-40	-142						•	
CONST	RUCTION															
	STRUCTURE															
RC WO	RKS															
	IAGEWAY & CENTRAL RESERVE				-											
1394	NP.Bldg - RC S/Slab U2FL.+78.40.65mPD GL.E-H/3-7	12	24DEC05A	23FEB06	50	100	4	-149	-178							
1395	NP.Bldg RC Cols.& Walls to 3FL.GL.A-J/3-6	18	24DEC05A	25FEB06	50	100	6	-149	-176							
1396	NP.Bldg RC S/Slab 3FL.+85.98mPD GL.A-J/3-7	18	20FEB06	11MAR06	0	100	18	-149	-174	-						
1397	NP.Bldg RC Cols.& Walls to 4FL.GL.A-J/3-7	18	06MAR06	25MAR06	0	100	18	-95	-174	1						
1398	NP.Bldg RC S/Slab 4FL.+93.83mPD GL.A-H/3-7	18	20MAR06	10APR06	0	100	18	-95	-174							
1399	NP.Bldg RC Cols.& Walls to 5FL.GL.A-H/3-7	18	03APR06	27APR06	0	100	18	-95	-174							
	NP.Bldg RC S/Slab 5FL.+100.88mPD GL.A-H/3-7	18	28APR06	20MAY06	0	100	18	-95	-174							
	NP.Bldg RC Stairs GL.A-H/5-7	18	28APR06	20MAY06	0	100	18	-64	-162							
		10	04050054	0055000	50	100	4	4.40	400							
1407	NP.Bldg RC S/Slab U2FL.~78.5mPD GL.E-H/1-3	12	24DEC05A	23FEB06	50	100	4	-143	-162							
1408	NP.Bldg RC Cols.& Walls to 3FL.GL.A-J/1-3	18	24DEC05A	25FEB06	50	100	6	-149	-176		X					
1409	NP.Bldg RC S/Slab 3FL.+85.98mPD GL.A-J/1-3	12	27FEB06	11MAR06	0	100	12	-149	-170							
1410	NP.Bldg RC Cols.& Walls to 4FL.GL.A-J/1-3	18	06MAR06	25MAR06	0	100	18	-77	-170							
1411	NP.Bldg RC S/Slab 4FL.+93.83mPD GL.A-H/1-3	12	20MAR06	01APR06	0	100	12	-77	-170							
1412	NP.Bldg RC Cols.& Walls to 5FL.GL.A-H/1-3	18	27MAR06	20APR06	0	100	18	-77	-170							
1413	NP.Bldg RC S/Slab 5FL.+100.88mPD GL.A-H/1-3	9	11APR06	27APR06	0	100	12	-77	-170							
1414	NP.Bldg RC Stairs GL.A-H/5-7	18	21APR06	13MAY06	0	100	18	-71	-170							
	TURAL STEELWORKS				1	I		1								
	NP.Bldg Crane beams to underside of U2F & test	18	17MAR06	07APR06	0	100	18	-102	-162							
	NP.Bldg Crane beams to underside of 3FL & test	18	08APR06	03MAY06	0	100	18	-96	-162							
1234	NP.Bldg Crane beams to underside of 4FL & test	18	08MAY06	27MAY06	0		18	-56	-164							

Act.	Activity	Orig	Early	Early	%	DWP %	Rem	Total	Variance	DEC	JAN	FEB	MAR	APR	MAY JUN
ID	Description	Dur	Start	Finish		Compl.	Dur	Float	arly Finis	27	28	29 0 6 13 20	30) 27 6 13 20 27	31 3 10 17 24	32 33 1 8 15 22 29 5 12
STRUCT	TURAL STEELWORKS						1	1 1	, i i i i i i i i i i i i i i i i i i i						
	NP.Bldg.Struct.Steel Works GL.A-E/2	14	15MAY06	30MAY06	0		14	-58	-170						
1402	NP.Bldg.Struct.Steel Works GL.A-E/6	14	22MAY06	07JUN06	0		14	-64	-162						
ARCHIT	ECTURAL & BUILDER'S WORKS														
	G & EXTERNAL FACADE									-					
	NP.Bldg.Roof W/Proofing & Testing	24	15MAY06	12JUN06	0		24	-68	-166						
1630	NP.Bldg.Ext Louvre & cladding 2FL to 3FL	18	22MAY06	12JUN06	0		18	-113	-206						
	R'S WORK	- 1 - 1			1	1	1	1 1							
	NP.BldgW/Proof Tanks/Pits & Test GL.H-S/10-12	18	13MAR06	01APR06	0	100	18	-82	-174					•	
1419	NP.Bldg Plinths GL.	8	13MAR06	21MAR06	0	100	8	-82	-170						
1420	NP.Bldg Plinths 2FL.	8	13MAR06	21MAR06	0	100	8	-149	-170						
1626	NP.Bldg.Wet Trades 2FL	18	22MAR06	12APR06	0	100	18	-149	-170						
1627	NP.Bldg.Wet Trades 3FL	18	13APR06	09MAY06	0	100	18	-118	-170						
1810	NP.Bldg Ext. Doors & Windows (frame)	18	13APR06	09MAY06	0		18	-55	-170						
1421	NP.Bldg Plinths 4FL.	8	21APR06	29APR06	0	100	8	-52	-174						
1527	NP.Bldg.Wet Trades GL	18	10MAY06	30MAY06	0		18	-118	-170	-					•
E&M - G	ENERAL					1									
MVAC W															
	/ER & CONTROL														
6840	EntNpBldg-MCC, power & control 1st fix	42	10MAY06	28JUN06	0		42	-82	-166						
ELECTR	RICAL WORKS														
HV POWE	R DISTRIBUTION MAJOR EQPT.]					
6225	EntNpBldg-HV power dist. sys 1st fix	36	13APR06	30MAY06	0	100	36	-100	-148						
	G & LIGHTNING PROTECTION				1		1								
	EntNpBldg-Earth'g & lightn'g - Earth Mat & Rods	30	11APR06	20MAY06	0	100	30	-50	-174						
6228	EntNpBldg-Earth'g & lightn'g protection 1st fix	60	22MAY06	01AUG06	0		60	-50	-152						
TCSS C	ONTAINMENT														
8481	EntNpBldg - TCSS Contain't for KD7	24	22MAR06	22APR06	0	100	24	-149	-170						
												•			

Act.	Activity	Orig	Early	Early	%	DWP %	Rem	Total	Variance	DEC	JAN	FEB	MAR	APR	MAY	JUN
ID	Description	Dur	-	Finish		Compl.					28	29 30 6 13	30 20 27 6 13 20 27 3	31 10 17 24 1	32 8 15 22 2	33 29 5 12
E&M 2/F	•									13 20						
MVAC W																
-	NT./AIR CONDITIONING															
6220	EntNpBldg 2F-AC(1st Fix) mech.vent.	36	13APR06	30MAY06	0	100	36	-106	-148							
	ICAL WORKS															
	JB-MAIN DISTRIBUTUION	54	24MAY06	27JUL06	0		54	-106	-148						_	
0201	EntNpBldg 2F-ES(1st Fix) Main & Sub-main dist.	54	24IVIA 1 00	2730100	0		54	-106	-140							
FINAL CIR	CUIT							II								
6252	EntNpBldg 2F-ES(1st Fix) Final Circuit dist.	54	24MAY06	27JUL06	0		54	-106	-148							
E&M 3/F																
MVAC W																
	vt./AIR CONDITIONING EntNpBldg 3F-AC(1st Fix) mech.vent.	30	10MAY06	14JUN06	0		30	-100	-166							_
0214		30	TUMATUO	14301100	0		30	-100	-100							
TESTIN	G & COMMISSIONING			l		·										1
	ORY INSPECTION															
	PECTION															
	EntNpBldg-All FS design approved by FSD (MHJV)	0	02MAY06		0	1	0	-52	-170							
0230			021017100		0		0	-52	-170						,	
6325	EntNpBldg-Issue, endorse & submit FSI 314 to FSD	6	24MAY06	30MAY06	0		6	-52	-170							.
TOLL P	LAZA & ANCILLIARY STRUCTURES															
SUBMIT	TALS & APPROVALS															
ABWF 8	BUILDER'S WORKS															
	TP/FB - Approve footbridge details	24	28JUL05A	04MAR06	0	100	12	-38	-385		1					
DESIGN	& ENGINEERING															
PERMA	NENT WORKS															
1244	Design/ICE Check Tool Booth Canopy	24	20FEB06	18MAR06	0	100	24	-12	-133							
1341	Eng Approve Dsg Tool Booth Canopy	12	20MAR06	01APR06	0	100	12	-12	-133							
1358	Issue Constr Dwgs Tool Booth Canopy	0		11APR06	0	100	0	-12	-133							
1556	issue constructives root booth canopy			TATIO	0	100		-12	-100					•		
PROCU	REMENT - MAJOR MATERIAL															
	Order/Fabricate/Deliver FBridge Structural Steel	120	01APR05A	14MAR06	0	100	20	-13	-44							
1518	Admin Bldg - Procure & maunfacture lift	270	01JUN05A	25MAR06	0	80	30	82	11							
0467			04050051	001403/00				40								_
2185	Order/Fabricate/Deliver Tool Booth Canopy	90	01DEC05A	30MAY06	0	80	80	-49	-80							1
			1	1	1	1	1					1				

Act.	Activity	Orig	Early	Early	%	DWP %	Rem	Total	Variance	DEC	JAN 28	FEB 29	MAR	APR 31	MAY 32	JUN
ID	Description	Dur	Start	Finish	Compl.	Compl.				27 12 19 26 2 S	28 9 ¦16 23 3	29 0 6 13	30 20 27 6 13 20 27			33 9 5 12
TOLL PI					-											
1512	TP/FB - Procure & maunfacture lifts (x2)	270	15JUL05A	25MAR06	0	80	30	103	36							
1521	TP/FB - Procure & fabricate footbridge	110	15JUL05A	25MAR06	0	100	30	-38	-223							
7548	TP-Proc & Manuf. MVAC Package AC Units	120	11JAN06A	14SEP06	10		120	-25	-77							
INTERF	ACE MILESTONES															
	LAZA COLLECTOR'S SUBWAY															
	Int M/S - TP/CS - E&M access	0		13MAY06	0		0	61	-67			Ŷ			\diamond	
7543	E&M access to Toll Plaza Subway	0	23MAY06*		0		0	54	0						\diamondsuit	
CONST	RUCTION WORKS															
	LAZA ROADWORKS															
	- FORMATION															
	TP/Rd - Perm materials storage area; Ptn D2 & D3	175	01JUN04A	15MAR06	90	100	21	-108	-213							
1497	TP/Rd - Drainage ch.4+520 to 4+680	44	01AUG05A	12JUN06	20	20	90	-64	-73							
1744	TP/Rd - Drainage ch.4+320 to 4+460	40	01JAN06A	25MAR06	10	100	30	-74	-85							
1745	TP/Rd - Drainage ch.4+460 to 4+520	46	01JAN06A	12JUN06	10	0	30	-52	-67							
1877	TP/Rd - Water main	60	03MAR06	18MAY06	0	90	60	-74	-85							
1878	TP/Rd - HV & LV Cable ducting	60	27MAR06	12JUN06	0	60	60	-74	-85							
	TP/Rd - Drain Testing - ch.4+320 to 4+460	36	03APR06	20MAY06	0	90	36	-40	-85							
1775	TP/Rd - Telecom ducts	44	19APR06	12JUN06	0	0	44	-74	-85				_			
ROADS					-		1	1		-						
	TP/Rd - Drainage - EVA loop road - SW area	48	16MAR06	17MAY06	0	100	48	-108	-116							
	TP/Rd - Drain Testing - EVA loop road - SW area	18	18MAY06	08JUN06	0	100	18	-79	-116							
	TP/Rd - Sub-base - EVA loop road - SW area	6	18MAY06	24MAY06	0	100	6	-67	-116							
	TP/Rd - Drainage - EVA loop rd - E & NE area	55	18MAY06	22JUL06	0	60	55	-108	-116							
	- FINISHES				1	1	1	1								
	TP/Rd - TCSS Ducts SB&NB C'Way ch.4+520 to 4+680	42	20FEB06	10APR06	0	0	42	-31	-17							
1824	TP/Rd - Ptn D4 TCSS Ducts S&NB ch.4+460 to 4+520	24	20FEB06	18MAR06	0	100	24	-183	-193							

• •		0 ·		- ·			P	-	., ·	DEC	JAN	FEB		MAR	APR	MAY JUN
Act.	Activity Description	Orig Dur	,	Early Finish	% Compl.	DWP % Compl.	Rem	I otal Float	Variance	27	28 29 16 23	29		30	31	32 33
	- FINISHES	Dui	Start	TITIOT	Compi.	Compi.	Dui	Tioat	any i ma	12 19 26	_2 _9 _16 _23	30 6 13	20 27	6 <mark>13 20 27</mark>	,3 10 17 24	1 <u>8 15 22 29 5 12</u>
	TP/Rd - Ptn D2&D3TCSS Dct S&NB ch.4+320 to 4+460	42	20MAR06	13MAY06	0	100	42	-183	-193							
1700		72	2011/11/00	10101/1100		100	72	100	100							
1747	TP/Rd - Ptn D5 - TCSS Dct S&NB ch.4+320 to 4+460	30	21APR06	27MAY06	0	100	30	-109	-143							
										-						
1831	TP/Rd - Ptn D5 TCSS Ducts S&NB ch.4+460 to 4+520	24	22MAY06	19JUN06	0		24	-109	-137							
	TURAL STEEL TP/Rd - TCSS Sign ch.4+520 to 4+680	18	11APR06	06MAY06	0	0	18	-31	-43							
1049	17/Ru - 1033 Sigit cli.4+520 to 4+680	10	TIAPRUO	UDIVIATUO	0	0	10	-31	-43						_	
TOLL P	LAZA COLLECTOR'S SUBWAY		I		1	1	1									
STRUCT																
	TP/CS - Waterproof & backfill - Ptn B	18	140CT05A	27JAN06A	100	100	0		-165							
1718	TP/CS - Waterproof & backfill - Ptn A	18	14NOV05A	27JAN06A	100	100	0		-183	-						
												_				
1720	TP/CS - Waterproof & backfill - Ptn C	18	20DEC05A	27JAN06A	100	100	0		-147							
1717	TP/CS - Substructure construction - Ptn D	18	19JAN06A	04MAR06	25	80	12	-37	-25							
1/1/			IJJANUUA	04101/11/00	20	00	12	-57	-23			1		-		
1721	TP/CS - Waterproof & backfill - Ptn D	18	06MAR06	25MAR06	0	0	18	-37	-25							
ABWF	1		I		1	1	1	1		-						
1471	TP/CS - Internal Finishes Ptn A, B & C	24	27MAR06	27APR06	0	100	24	-37	-207							
1470	TP/CS - Internal Finishes Ptn D	12	28APR06	13MAY06	0		12	-37	-67	-					_	
1472	17/03 - Internal Finishes Ful D	12	2045400	I SIVIA I UO	0		12	-37	-07						-	
TOLL P																
FOUND																
	TP/FB - Pile Cap - Cap FT1	12	04JAN06A	27JAN06A	100	100	0		-27							
RC SUP	ERSTRUCTURE															
1694	TP/FB - Column & bearings C2	12	27APR05A	14MAR06	95	100	20	-28	-213							
170-	TD/CDOshuma_0.h.s.sticate_Of	10	00400051	4414000	07	400	00		010					_		
1707	TP/FB - Column & bearings C1	12	29APR05A	14MAR06	95	100	20	-19	-212							
1494	TP/FB - Column & bearings W2 (FT4)	12	13MAY05A	14MAR06	95	100	20	-28	-240							
1506	TP/FB - Column & bearings W1 (FT1)	56	01FEB06A	14MAR06	0	100	20	-19	-47			—				
		_														
1507	TP/FB - Lift Machine room walls & stair (FT1)	15	01FEB06A	09MAR06	0	100	16	-9	-40							
ETDUCT					1	I										
	TURAL STEELWORKS TP/FB - Stair (FT4)	15	27MAR06	13APR06	0	100	15	-38	-250	-				-		
1302				13/11/100	Ū	100	15	-50	-200					-		
		I											•		•	· · · · ·

Add: Additivy Opd Entry Vis DVM * No Main	Act.	Activity	Orig Early	Early	%		Bom	Total	Varianaa	DEC		JAN	FEE	3	MAR	APR	MAY	JUN
STRUCTURAL STELLWORKS 1707 FPRFB - Forci & Musili Imane A2 0 3 20 -67 1710 FPRFB - Forci & Musili Imane B 0 3 20 -67 1711 FPRFB - Forci & Installi Imane B 0 3 20 -67 1712 FPRFB - Forci & Installi Imane B 0 3 20 -67 1712 FPRFB - Forci & Installi Imane B 0 30AAAR06 0 14 20 -67 1712 FPRFB - Forci & Installi Imane B 0 30AAAR06 0 16 20 -67 1848 FPRFB - For Lin (2) Structural Stectwork Imst. 24 18APR06 170L P - A2A BOOTHS						Compl.	Dur	Float	arly Finis	27	2 0							33
1700 TDFE - Erect & install frame A1 3 27MAR06 28MAR06 0 3 -29 -77 1710 TDFE - Erect & install frame A2 3 27MAR06 28MAR06 0 100 3 -29 -223 1711 TDFE - Erect & install frame B 3 30MAR06 01AR06 0 3 -29 -57 1712 TDFE - Erect & install frame B 3 30MAR06 01AR06 0 18 -97 1480 TDFE - PXLII (x2) Structural Steelwork inst. 24 18 -97 -97 1495 TDFB - PXLII (x2) Structural Steelwork inst. 22 18AR06 0 18 -98 -97 1510 TDPB - Construct tol islands - Portion A - 1 no 12 20FEB06 01MAR06 0 103 -158 183 1723 TDB - Construct tol islands - Portion A - 1 no 12 20FEB06 01MAR06 0 130 -158 183 1723 TDB - Construct tol islands - Portion A - 1 no 12 20FEB06 130MAY06 0 30 12 -97 1724 TDB - Con	STRUCT		1	1	1	1		1		12 13 20	2 3			20 2		5 10 17 24		29 5 12
1711 TP/FB - Eroct. & install frame B 3 30MAR0 01APR06 0 18 29 57 1712 TP/FB - Site weld, feet & remove temp supports 18 03APR06 0 18 29 57 1446 TP/FB - Px Lift (µ2) Structural Steelwork Inst. 24 184 70 24 38 69 COLL PLAZA BOOTHS STRUCTURE 1510 TP/B - Construct toll Islands - Portion A - 1 no 12 20FEB06 0 100 12 159 150 1712 TP/B - Construct toll Islands - Portion A - 1 no 12 20FEB06 0 100 30 150 183 1722 TP/B - Construct toll Islands - Portion A - 1 no 12 20FEB06 0 30 13 43 1723 TP/B - Construct toll Islands - Portion A - 1 no 12 28APR06 0 100 30 150 18 43 1720 TP/B - Construct toll Islands - Portion A - 1 no 12 28APR06 0 12 29 57 1720 TP/B - Construct toll Islass - Portion A - 1 no 12			3 27MAR06	29MAR06	0		3	-29	-57			I						
11/12 TP/FB - Site weld, test & remove temp supports 18 03APR06 27APR06 0 18 29 57 1496 TP/FB - Px Lift (z2) Structural Steelwork Inst. 24 18APR06 17MAY06 0 24 38 69 COLL PLAZA BOOTHS Structured 1010 TP/B - Construct Uell Islands - Portion A - 1 no 12 207EB06 04MAR06 0 100 12 -159 -156 1722 TP/B - Construct Uell Islands - Portion D - 5 no 30 277HAR06 0 100 30 -159 +183 1723 TP/B - Construct Uell Islands - Portion D - 6 no 30 277EB06 0 100 30 -13 43 ABW/F 1723 TP/B - Construct Uell Islands - Portion D - 6 no 30 13MAY06 0 12 -28 -57 1724 TP/B - Construct Uell Islands - Portion A - 1 no 12 28APR06 13MAY06 0 30 -33 -57 1725 TP/B - Construct Uell Islands - Portion B - 5 no 30 15MAY06 24 30 0 -	1710	TP/FB - Erect & install frame A2	3 27MAR06	29MAR06	0	100	3	-29	-223									
1486 TP/FB - Px Lift (z2) Structural Steelwork Inst. 24 18APR06 17MAY06 0 24 -88 -69 TOLL PLAZA BOOTHS STRUCTURE 1510 TP/B - Construct toll Islands - Portion A - 1 no 12 20FEB06 04MAR06 0 100 12 -150 1713 TP/B - Construct toll Islands - Portion C - 5 no 30 27MAR06 0 100 30 13 -43 1721 TP/B - Construct toll Islands - Portion C - 5 no 30 27MAR06 0 30 13 -43 ABWF 1721 TP/B - Construct toll Islands - Portion C - 5 no 30 15MAY06 0 30 13 -43 AVIF 1511 TP/B - Construct toll Kiosks - Portion B - 5 no 30 15MAY06 0 30 29 -57 TOLL PLAZA EAM WORKS SWORKS FOUNDAL FOLMONE FOLMONE 1720 Ir/B Ardins, Bidg, Wk Shop - Rolf Tooling 18 24FEB06 80 100	1711	TP/FB - Erect & install frame B	3 30MAR06	01APR06	0		3	-29	-57									
TOLL PLAZA BOOTHS STRUCTURE 11101 TP/8 - Construct toll islands - Portion A - 1 no 12 20FEBO6 04MAR06 0 100 12 159 -159 11713 TP/8 - Construct toll islands - Portion B - 5 no 30 27FEBO6 01APR06 0 100 30 159 -183 11722 TP/8 - Construct toll islands - Portion D - 6 no 30 11APR06 0 30 13 43 AEWP 1111 TP/8 - Construct toll islands - Portion A - 1 no 12 28APR06 13MAY06 0 30 29 -57 1120 TP/8 - Construct toll kicks - Portion A - 1 no 12 28APR06 13MAY06 0 30 29 -57 1120 TP/8 - Construct toll kicks - Portion B - 5 no 30 18MAY06 0 30 29 -57 TOLL PLAZA EAM WORKS PS DISTRUCTIONS	1712	TP/FB - Site weld, test & remove temp supports	18 03APR06	27APR06	0		18	-29	-57									
STRUCTURE 15101 TPRB - Construct toll islands - Portion A - 1 no 12 20FEB06 04MAR06 0 100 12 156 17131 TPRB - Construct toll islands - Portion B - 5 no 30 27FEB06 01APR06 0 100 30 159 183 1722 TPRB - Construct toll islands - Portion C - 5 no 30 27FEB06 01APR06 0 100 30 159 183 1723 TPRB - Construct toll islands - Portion D - 6 no 30 17AR06 0 100 30 15 143 1724 TPRB - Construct toll islands - Portion A - 1 no 12 28APR06 13MAY06 0 12 29 -57 1724 TPRB - Construct toll klosks - Portion B - 5 no 30 15MAY06 0 30 29 -57 TOLL PLAZA EAM WORKS E E E 274MAY06 20JUN06 24 63 0 FSWOCKS E E 23MAY06 20JUN06 24 63 0 FOUNDATIONS 1730 Admin.Bldg. Wk Shop - Raf footing 18 25FEB06	1496	TP/FB - Px Lift (x2) Structural Steelwork Inst.	24 18APR06	17MAY06	0		24	-38	-69					-				
1510 TP/B - Construct toll islands - Portion A - 1 no 12 20FEB06 04MAR06 0 100 12 -156 1713 TP/B - Construct toll islands - Portion B - 5 no 30 27FEB06 01APR06 0 100 30 -159 -183 1722 TP/B - Construct toll islands - Portion C - 5 no 30 27MAR06 06MAY06 0 30 -159 -183 1723 TP/B - Construct toll islands - Portion D - 6 no 30 11APR06 20MAY06 0 30 -13 -43 ABWF 1511 TP/B - Construct toll islands - Portion A - 1 no 12 28APR06 13MAY06 0 30 29 -57 7126 TP/B - Construct toll islands - Portion B - 5 no 30 15MAY06 0 30 29 -57 CONSTruct toll islands - Portion B - 5 no 30 15MAY06 0 24 63 0 ADMINBLDG WORKSHOP FOUNDATION - - - - - - 1750 Admin.Bidg. Wk Shop - Raft footing 18 25FEB06 17MAR06 0	TOLL P	LAZA BOOTHS																
1713 TP/B - Construct toll islands - Portion B - 5 no 30 27FEB06 01APR06 0 100 30 -169 -183 1722 TP/B - Construct toll islands - Portion C - 5 no 30 27MAR06 06MAY06 0 100 30 -159 -183 1723 TP/B - Construct toll islands - Portion D - 6 no 30 11APR06 20MAY06 0 30 -13 -43 ABWF	STRUCT	URE																
1722 TP/B - Construct toll islands - Portion C - 5 no 30 27MAR06 06MAY06 0 100 30 -159 -183 1723 TP/B - Construct toll islands - Portion D - 6 no 30 11APR06 20MAY06 0 30 -13 -43 ABWF	1510	TP/B - Construct toll islands - Portion A - 1 no	12 20FEB06	04MAR06	0	100	12	-159	-195									
1723 TP/B - Construct toll islands - Portion D - 6 no 30 11APR06 20MAY06 0 30 -13 -43 ABWF 1511 TP/B - Construct toll kiosks - Portion A - 1 no 12 28APR06 13MAY06 0 12 -29 -57 1726 TP/B - Construct toll kiosks - Portion B - 5 no 30 15MAY06 0 30 -29 -57 7126 TP/B - Construct toll kiosks - Portion B - 5 no 30 15MAY06 0 30 -29 -57 70LPLAZA E&M WORKS FSWORKS	1713	TP/B - Construct toll islands - Portion B - 5 no	30 27FEB06	01APR06	0	100	30	-159	-183							 		
ABWF Image: Construct toll klosks - Portion A - 1 no 12 28APR06 13MAY06 0 12 -29 -57 1728 TP/B - Construct toll klosks - Portion B - 5 no 30 15MAY06 13JUN06 0 30 -29 -57 TOLLPAZA E&M WORKS FOUNDATIONE 7565 TP-FS(1st Fix) AFA dist. 24 23MAY06 0 24 63 0 ADISTRIBUTION 7565 TP-FS(1st Fix) AFA dist. 24 23MAY06 0 24 63 0 ADISTRIBUTION TOTOLATIONS TOTOLATIONS STRUCTURE TATA damin.Bldg. Wk Shop - Raft footing 18 25/AN06A 24FEB06 80 100 5 -84 -102 TABISTRUCTURE 1750 Admin.Bldg. Wk Shop - GF Slab 18 25/MAR06 0 100 18 -84 -102 17779 Admin.Bldg. Wk Shop - Columns & walls GF to Roof 18 25/MAR06 0 100 18 -84 -102	1722	TP/B - Construct toll islands - Portion C - 5 no	30 27MAR06	06MAY06	0	100	30	-159	-183									
1511 TP/B - Construct toll kiosks - Portion A - 1 no 12 28APR06 13MAY06 0 12 -57 1726 TP/B - Construct toll kiosks - Portion B - 5 no 30 15MAY06 0 30 -29 -57 TOLL PLAZA E&M WORKS FS WORKS TOLL PLAZA E&M WORKS TOLL PLAZA E&M WORKS FS WORKS Application in the second secon	1723	TP/B - Construct toll islands - Portion D - 6 no	30 11APR06	20MAY06	0		30	-13	-43	7								
1726 TP/B - Construct toll kiosks - Portion B - 5 no 30 15MAY06 19JUN06 0 30 -29 -57 TOLL PLAZA E&M WORKS FS WORKS FS WORKS An JISTRIBUTION TOSS TP-FS(1st Fix) AFA dist. 24 23MAY06 20JUN06 0 24 63 0 ADMIN. BLOG WORKSHOP FOUNDATIONS 1750 Admin. Bldg. Wk Shop - Raft footing 18 25JAN06A 24FEB06 80 100 5 -84 -102 STRUCTURE 1749 Admin. Bldg. Wk Shop - GF Slab 18 25FEB06 17MAR06 0 100 18 -84 -102 1776 Admin. Bldg. Wk Shop - Collwas & walls GF to Roof 18 11MAR06 0 100 18 -84 -102 1777 Admin. Wk Shop - Col & walls Roof to Upper Roof 12 10APR06 26APR06 0 100 18 -84 -102 1777 Admin. Wk Shop - Col & walls Roof to Upper Roof 12 10APR06 26APR06 0	ABWF																	
TOL. PLAZA E&M WORKS FS WORKS FS WORKS PAD DISTRIBUTION 7565 TP-FS (1st Fix) AFA dist. 24 23MAY06 20JUN06 0 24 63 0 ADMIN. BLDG WORKSHOP FOUNDATIONS Image: Constraint of the state of t	1511	TP/B - Construct toll kiosks - Portion A - 1 no	12 28APR06	13MAY06	0		12	-29	-57				-		P			
FS WORKS AFA DISTRIBUTION 7565 TP-FS(1st Fix) AFA dist. 24 23MAY06 20JUN06 0 24 63 0 ADMIN.BLDG WORKSHOP FOUNDATIONS 17500 Admin.Bldg. Wk Shop - Raft footing 18 25JAN06A 24FEB06 80 100 5 -84 -102 STRUCTURE 1768 Admin.Bldg. Wk Shop - GF Slab 18 25FEB06 17MAR06 0 100 18 -84 -102 1768 Admin.Bldg. Wk Shop - Columns & walls GF to Roof 18 11MAR06 31MAR06 0 100 18 -84 -102 1777 Admin.Bldg. Wk Shop - Columns & walls GF to Roof 18 19APR06 0 100 18 -84 -102 1777 Admin. Wk Shop - Col & walls Roof to Upper Roof 12 10APR06 26APR06 0 100 12 -84 -102	1726	TP/B - Construct toll kiosks - Portion B - 5 no	30 15MAY06	19JUN06	0		30	-29	-57									
AFA DISTRIBUTION 7565 TP-FS(1st Fix) AFA dist. 24 23MAY06 20JUN06 0 24 63 0 ADMIN.BLDG WORKSHOP FOUNDATIONS 1750 Admin.Bldg. Wk Shop - Raft footing 18 25JAN06A 24FEB06 80 100 5 -84 -102 STRUCTURE 1768 Admin.Bldg. Wk Shop - Columns & walls GF to Roof 18 11MAR06 0 100 18 -84 -102 1768 Admin.Bldg. Wk Shop - Columns & walls GF to Roof 18 11MAR06 0 100 18 -84 -102 1777 Admin.Bldg. Wk Shop - Col & walls Roof to Upper Roof 12 10APR06 0 100 18 -84 -102 1779 Admin. Wk Shop - Col & walls Roof to Upper Roof 12 10APR06 0 100 12 -84 -102	TOLL P	LAZA E&M WORKS																
7565 TP-FS(1st Fix) AFA dist. 24 23MAY06 20JUN06 0 24 63 0 ADMIN.BLDG WORKSHOP FOUNDATIONS 1750 Admin.Bldg. Wk Shop - Raft footing 18 25JAN06A 24FEB06 80 100 5 -84 -102 STRUCTURE 1768 Admin.Bldg. Wk Shop - GF Slab 18 25FEB06 17MAR06 0 100 18 -84 -102 1768 Admin.Bldg. Wk Shop - Columns & walls GF to Roof 18 11MAR06 31MAR06 0 100 18 -84 -102 1776 Admin.Bldg. Wk Shop - Columns & walls GF to Roof 18 11MAR06 19APR06 0 100 18 -84 -102 1777 Admin.Bldg. Wk Shop - Col & walls Roof to Upper Roof 12 10APR06 26APR06 0 100 12 -84 -102 1779 Admin. Wk Shop - Col & walls Roof to Upper Roof 12 10APR06 26APR06 0 100 12 -84 -102	FS WOR	KS																
ADMIN.BLDG WORKSHOP FOUNDATIONS 1750 Admin.Bldg. Wk Shop - Raft footing 18 25JAN06A 24FEB06 80 100 5 -84 -102 STRUCTURE 1749 Admin.Bldg. Wk Shop - GF Slab 18 25FEB06 17MAR06 0 100 18 -84 -102 1768 Admin.Bldg. Wk Shop - Columns & walls GF to Roof 18 11MAR06 31MAR06 0 100 18 -84 -102 1777 Admin.Bldg. Wk Shop - Col & walls Roof to Upper Roof 12 10APR06 26APR06 0 100 12 -84 -102				_	1		1	-										
FOUNDATIONS 1750 Admin.Bldg. Wk Shop - Raft footing 18 25JAN06A 24FEB06 80 100 5 -84 -102 STRUCTURE 1768 Admin.Bldg. Wk Shop - GF Slab 18 25FEB06 17MAR06 0 100 18 -84 -102 1768 Admin.Bldg. Wk Shop - Columns & walls GF to Roof 18 11MAR06 31MAR06 0 100 18 -84 -102 1777 Admin.Bldg. Wk Shop - Columns & walls GF to Roof 18 19APR06 0 100 18 -84 -102 1777 Admin.Bldg. Wk Shop - Col & walls Roof to Upper Roof 12 10APR06 26APR06 0 100 12 -84 -102	7565	TP-FS(1st Fix) AFA dist.	24 23MAY06	20JUN06	0		24	63	0									
1750 Admin.Bldg. Wk Shop - Raft footing 18 25JAN06A 24FEB06 80 100 5 -84 -102 STRUCTURE 1749 Admin.Bldg. Wk Shop - GF Slab 18 25FEB06 17MAR06 0 100 18 -84 -102 1768 Admin.Bldg. Wk Shop - Columns & walls GF to Roof 18 11MAR06 31MAR06 0 100 18 -84 -102 1777 Admin.Bldg. Wk Shop - Columns & walls GF to Roof 18 11MAR06 19APR06 0 100 18 -84 -102 1777 Admin.Bldg. Wk Shop - Col & walls Roof to Upper Roof 12 10APR06 26APR06 0 100 12 -84 -102 1779 Admin. Wk Shop - Col & walls Roof to Upper Roof 12 10APR06 26APR06 0 100 12 -84 -102	ADMIN.	BLDG WORKSHOP																
STRUCTURE 1749 Admin.Bldg. Wk Shop - GF Slab 18 25FEB06 17MAR06 0 100 18 -84 -102 1768 Admin.Bldg. Wk Shop - Columns & walls GF to Roof 18 11MAR06 31MAR06 0 100 18 -84 -102 1777 Admin.Bldg. Wk Shop - Roof Slab 18 25MAR06 19APR06 0 100 18 -84 -102 1779 Admin. Wk Shop - Col & walls Roof to Upper Roof 12 10APR06 26APR06 0 100 12 -84 -102	FOUND	ATIONS																
1749 Admin.Bldg. Wk Shop - GF Slab 18 25FEB06 17MAR06 0 100 18 -84 -102 1768 Admin.Bldg. Wk Shop - Columns & walls GF to Roof 18 11MAR06 31MAR06 0 100 18 -84 -102 1777 Admin.Bldg. Wk Shop - Roof Slab 18 25MAR06 19APR06 0 100 18 -84 -102 1779 Admin. Wk Shop - Col & walls Roof to Upper Roof 12 10APR06 26APR06 0 100 12 -84 -102	1750	Admin.Bldg. Wk Shop - Raft footing	18 25JAN06A	24FEB06	80	100	5	-84	-102									
1768 Admin.Bldg. Wk Shop - Columns & walls GF to Roof 18 11MAR06 31MAR06 0 100 18 -84 -102 1777 Admin.Bldg. Wk Shop - Roof Slab 18 25MAR06 19APR06 0 100 18 -84 -102 1779 Admin. Wk Shop - Col & walls Roof to Upper Roof 12 10APR06 26APR06 0 100 12 -84 -102	STRUCT	URE																
1777 Admin.Bldg. Wk Shop - Roof Slab 18 25MAR06 19APR06 0 100 18 -84 -102 1779 Admin. Wk Shop - Col & walls Roof to Upper Roof 12 10APR06 26APR06 0 100 12 -84 -102	1749	Admin.Bldg. Wk Shop - GF Slab	18 25FEB06	17MAR06	0	100	18	-84	-102									
1779 Admin. Wk Shop - Col & walls Roof to Upper Roof 12 10APR06 26APR06 0 100 12 -84 -102			18 11MAR06	31MAR06	0	100	18	-84	-102									
	1777	Admin.Bldg. Wk Shop - Roof Slab	18 25MAR06	19APR06	0	100	18	-84	-102									
1780 Admin.Bldg. Wk Shop - Upper Roof slab 12 27APR06 12MAY06 0 12 -84 -102	1779	Admin. Wk Shop - Col & walls Roof to Upper Roof	12 10APR06	26APR06	0	100	12	-84	-102	D								
	1780	Admin.Bldg. Wk Shop - Upper Roof slab	12 27APR06	12MAY06	0		12	-84	-102									

Act.	Activity	Orig	Early	Early	%	DWP %	Rem	Total	Variance	DEC	JAN	1	FEB		MAR	APR 31	MAY 32	JUN 33
ID	Description	Dur	Start	Finish	Compl.	Compl.	Dur	Float	arly Finis	12 19 26	2 9 16	6 <mark>23 3</mark> 0	6 13	20 27	30 6132027	3 10 17 24		9 ₁ 5 12
ABWF		1			1			1										
1783	Admin.Bldg. Wk Shop - Ext. Doors & Windows GF	18	06MAY06	26MAY06	0		18	-66	-102									
	ISTRATION BUILDING																	
SUBMI	TTALS & APPROVALS																	
ABWF 8	BUILDER'S WORKS																	
1883	Admin.Bldg Prep & sub sheet decking details	24	13NOV04A	04MAR06	12	100	12	-195	-355									
1891	Admin.Bldg Prep & submit door & window detail	24	13NOV04A	14FEB06A	100	100	0		-339									
1885	Admin.Bldg Prep & submit wood ceiling details	24	20NOV04A	04MAR06	50	100	12	-183	-349									
1881	Admin.Bldg Prep & sub GRP water tank details	24	12JAN05A	04MAR06	50	100	12	-201	-307									
1892	Admin.Bldg Approve door & window details	24	06APR05A	04MAR06	50	100	12	-189	-331									
1894	Admin.Bldg Approve louvre details	24	07APR05A	04MAR06	50	100	12	-26	-397									
1819	Admin.Bldg Approve stone cladding design	24	15JUN05A	04MAR06	50	100	12	-56	-247									
1820	Admin.Bldg Approve slate cladding design	24	15JUN05A	04MAR06	50	100	12	-56	-247									
1890	Admin.Bldg Approve curtain wall details	24	22JUN05A	03FEB06A	100	100	0		-343									
1887	Admin.Bldg Prep & sub suspend ceiling details	24	12AUG05A	04MAR06	50	100	12	-24	-139	-								
1900	Admin.Bldg Approve fall arrest system	24	140CT05A	14FEB06A	100	100	0		-285									
1898	Admin.Bldg Approve aluminium cladding	24	13DEC05A	04MAR06	0	100	12	-56	-397									
1896	Admin.Bldg Approve balustrade & metal works	24	10JAN06A	13FEB06A	100	100	0		-272	-								
1882	Admin.Bldg Approve GRP water tank details	24	06MAR06	01APR06	0	100	24	-201	-307	-						 		
1884	Admin.Bldg Approve sheet decking details	24	06MAR06	01APR06	0	100	24	-195	-355	-						 		
1886	Admin.Bldg Approve wood ceiling details	24	06MAR06	01APR06	0	100	24	-183	-349									
1888	Admin.Bldg Approve suspended ceiling details	24	06MAR06	01APR06	0	100	24	-24	-139							•		
E&M EC	PT. / MTRL. SUBMITTALS				1	·												
	AdmBldg-Sub.FS AFA & FM200 sys	54	05JUL04A	24FEB06	99	100	5	-56	-184									
8240	AdmBldg-Sub.FS wet sys	54	05AUG04A	24FEB06	99	100	5	-62	-328									
	1	I				<u> </u>	<u> </u>	1			1						I	I

Num You Ohu Surt Series Convert Des Series Convert Series Series <th>Act.</th> <th>Activity</th> <th>Orig Early</th> <th>Early</th> <th>%</th> <th>DWP %</th> <th>Rem</th> <th>Total</th> <th>Variance</th> <th>DEC JAN FEB MAR APR MAY JUN</th>	Act.	Activity	Orig Early	Early	%	DWP %	Rem	Total	Variance	DEC JAN FEB MAR APR MAY JUN
EAM EOPT, MATRL. SUBMITTALS Schulgond, DeKAYG 0 100 0 189 340 Soliz, Anthidig, Apc. Miching related turinarines 15 16AUGOA, Miching, Apc. Soliding related turinarines 16 16AUGOA, Miching, Apc. Soliding, App. FS AFA & FM200 sys 18 100 18 -70 -245 6388 Admitidg, App. FS AFA & FM200 sys 18 100 18 -82 -323 6389 Admitidg, App. FS AFA & FM200 sys 18 123 SEPOAA 11MAROS 80 100 18 -26 -335 6389 Admitidg, App. FDV & S PAUs 18 23SEPOAA 11MAROS 80 100 18 -26 -335 6389 Admitidg, App. FDV & S PAUs 18 23SEPOAA 11MAROS 80 100 18 -26 -335 6389 Admitidg, App. FDV & S PAUs 18 23SEPOAA 11MAROS 80 100 18 -26 -335 6478 Admitidg, App. FDV & S PAUs 18 ANROS 100 14 -26 -283 -24 -24 -24 <		· · · · · · · · · · · · · · · · · · ·	-	-			Dur	Float	arly Finis	
EM EQPL (MTRL_APPROVALS 8030 AdmBidg-App. Doulding related luminaires 18 164/LGAA 11/MARO6 0 100 18 -170 8030 AdmBidg-App. FS vet sys 10 04SEP04A 11/MARO6 00 100 18 -2 -2 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	E&M EQ	PT. / MTRL. SUBMITTALS					_			
8032 AdmBidg-App. building related luminaires 18 18AUG04A 11MAR06 90 100 18 -170 -246 6388 AdmBidg-App. FS wet sys 18 04SEP04A 11MAR06 80 100 18 -62 -323 6398 AdmBidg-App. FS Wet sys 18 14SEP04A 11MAR06 80 100 18 -62 -470 6398 AdmBidg-App. of CMCS, TCS & ELV sys 18 2SEP04A 11MAR06 80 100 18 -69 -436 6398 AdmBidg-App. FCUs & PAUS 18 2SEP04A 11MAR06 80 100 18 -298 6398 AdmBidg-App. FCUs & PAUS 18 2SEP04A 04MAR06 80 100 18 -208 -336 6387 AdmBidg-App. FCUs & PAUS 18 2SEP04A 04MAR06 80 100 18 -80 -347 6478 AdmBidg-App. Chiller & Limps 18 174AR06A 18MAR06 50 100 24 -66 -283 1902 Admin.Bidg Design static dading 36 04APR05A	8242	AdmBldg-Sub.CMCS, TCS & ELV sys	78 26AUG04A	06MAY06	90	100	60	-189	-349	
8032 AdmBidg-App. building related luminaires 18 18AUG04A 11MAR06 90 100 18 -170 -246 6388 AdmBidg-App. FS wet sys 18 04SEP04A 11MAR06 80 100 18 -62 -323 6398 AdmBidg-App. FS Wet sys 18 14SEP04A 11MAR06 80 100 18 -62 -470 6398 AdmBidg-App. of CMCS, TCS & ELV sys 18 2SEP04A 11MAR06 80 100 18 -69 -436 6398 AdmBidg-App. FCUs & PAUS 18 2SEP04A 11MAR06 80 100 18 -298 6398 AdmBidg-App. FCUs & PAUS 18 2SEP04A 04MAR06 80 100 18 -208 -336 6387 AdmBidg-App. FCUs & PAUS 18 2SEP04A 04MAR06 80 100 18 -80 -347 6478 AdmBidg-App. Chiller & Limps 18 174AR06A 18MAR06 50 100 24 -66 -283 1902 Admin.Bidg Design static dading 36 04APR05A	E 9 M E C									
6380 AdmBidg-App, FS wit sys 18 04SEP04A 11MAR08 80 100 18 42 323 6390 AdmBidg-App, FS AFA & FM200 sys 18 14SEP04A 11MAR08 85 100 18 45 170 6390 AdmBidg-App, Of CMCS, TCS & ELV sys 18 12SEP04A 11MAR08 80 100 18 458 138 288 6380 AdmBidg-App, FCUs & PAUs 18 23SEP04A 11MAR08 80 100 15 203 382 6381 AdmBidg-App, FCUs & PAUs 18 23SEP04A 11MAR08 80 100 18 480 347 6381 AdmBidg-App, FCUs & PAUs 18 104AR05A 11MAR06 90 100 18 49 347 6478 AdmBidg-App, FDu al Irosh & flush water sys 18 17JAN05A 11MAR06 50 100 18 49 347 1602 AdmIn.Bidg-P.Dealign stone cladding 36 04APR05A 18MAR06 50 100 24 56 283 48 48 48 48 48 <td></td> <td></td> <td>18 1841/0044</td> <td>11MAP06</td> <td>90</td> <td>100</td> <td>18</td> <td>-170</td> <td>-245</td> <td></td>			18 1841/0044	11MAP06	90	100	18	-170	-245	
Construction Construction<	8505	Admibidy-App. building related furninalies	18 18A0G04A	THMARUO	90	100	10	-170	-245	
G332 AdmBldg-App. of CMCS, TCS & ELV ays 18 205EP04 11MAR06 80 100 18 +189 -289 G339 AdmBldg-App. MVAC mech-vent. sys 18 235EP04A 11MAR06 80 100 18 +289	6388	AdmBldg-App. FS wet sys	18 04SEP04A	11MAR06	80	100	18	-62	-323	
G389 AdmBidg-App. MVAC mech.vent. sys 18 23SEP04A 11MAR06 80 100 18 206 -335 G389 AdmBidg-App. FCUs & PAUs 18 23SEP04A 08MAR06 80 100 15 -205 -336 G387 AdmBidg-App. FDu all fresh & flush water sys 18 04NOV04A 11MAR06 85 100 18 80 -347 G478 AdmBidg-App. FDu all fresh & flush water sys 18 04NOV04A 11MAR06 90 100 18 40 -347 G478 AdmBidg-App. FDu all fresh & flush water sys 18 04NOV04A 11MAR06 90 100 18 436 -363 DESIGN & ERINKE 102 AdmBidg-App. Chiler & Pumps 18 17JAN05A 11MAR06 50 100 24 56 -283 1802 AdmBidg-App. Chiler & Pumps 38 04APR05A 18MAR06 50 100 24 56 -283 1802 Admin.Bidg Design state cladding 30 04APR05A 18MAR06 0 100 12 185 -145	6399	AdmBldg-App. FS AFA & FM200 sys	18 14SEP04A	11MAR06	85	100	18	-56	-179	
6396 AdmBidg-App. FCU's & PAU's 16 23SEP04A 08MAR06 80 100 15 -203 -392 6396 AdmBidg-App. FDU all fresh & flush water sys 18 04NOV04A 11MAR06 85 100 18 -347 6478 AdmBidg-App. FDU all fresh & flush water sys 18 04NOV04A 11MAR06 85 100 18 -363 0ESIGN & ENGINEETRING Admin.Bidg Design stone cladding 36 04APR05A 18MAR06 50 100 24 -56 -283 1802 Admin.Bidg Design stone cladding 36 04APR05A 18MAR06 50 100 24 -56 -283 1802 Admin.Bidg Design stone cladding 36 04APR05A 18MAR06 50 100 24 -56 -283 1904 Admin.Bidg Decure wood ceiling 90 19JAN05A 04MAR06 0 100 12 -186 -117 -199 1904 Admin.Bidg Procure slate cladding 90 09MAR05A 04MAR06 0 100 12 -186 -2177 -199 -199	6392	AdmBldg-App. of CMCS, TCS & ELV sys	18 20SEP04A	11MAR06	80	100	18	-189	-289	
6387 AdmBklg-App. PD all fresh & flush water sys 18 04NOV04A 11MAR06 85 100 18 -347 6478 AdmBklg-App. Chiller & Pumps 18 17JAN0SA 11MAR06 90 100 18 -353 DESIGN & ENCINEERING Adwr. WORKS 1802 Admin.Bidg Design stone cladding 36 04APR05A 18MAR06 50 100 24 -56 -283 1802 Admin.Bidg Design stone cladding 36 04APR05A 18MAR06 50 100 24 -56 -283 1802 Admin.Bidg Design stone cladding 36 04APR05A 18MAR06 50 100 24 -56 -283 1904 Admin.Bidg Procure wood ceiling 90 19JAN05A 04MAR06 0 100 12 -185 -145 1904 Admin.Bidg Procure slaustrade & metal works 90 09MAR05A 04MAR06 0 100 12 -86 -217 -198 1904 Admin.Bidg Procure slaustrade & metal works 90 09MAR05A 04MAR06 0 100 12<	6389	AdmBldg-App. MVAC mech.vent. sys	18 23SEP04A	11MAR06	80	100	18	-206	-335	
6478 AdmBidg-App. Chiller & Pumps 18 17JAN05A 11MAR06 90 100 18 -353 DESIGN & ENCINEERING ABWF WORKS 1802 Admin.Bidg Design stone cladding 36 04APR05A 18MAR06 50 100 24 -56 -283 1803 Admin.Bidg Design stone cladding 36 04APR05A 18MAR06 50 100 24 -56 -283 PROCUREMENT - MATERIAL	6396	AdmBldg-App. FCUs & PAUs	18 23SEP04A	08MAR06	80	100	15	-203	-392	
DESIGN & ENGINEERING ABWF WORKS 1802 Admin.Bldg Design stone cladding 36 04APR05A 18MAR06 50 100 24 -56 -283 1803 Admin.Bldg Design state cladding 36 04APR05A 18MAR06 50 100 24 -56 -283 PROCUREMENT - MATERIAL 36 04APR05A 18MAR06 0 100 12 -165 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145 -145	6387	AdmBldg-App. PD all fresh & flush water sys	18 04NOV04A	11MAR06	85	100	18	-80	-347	
ABWF WORKS 36 04APR05A 18MAR06 50 100 24 -56 -283 1802 Admin.Bidg Design state cladding 36 04APR05A 18MAR06 50 100 24 -56 -283 1803 Admin.Bidg Design state cladding 36 04APR05A 18MAR06 50 100 24 -56 -283 PROCUREMENT - MATERIAL	6478	AdmBldg-App. Chiller & Pumps	18 17JAN05A	11MAR06	90	100	18	-136	-353	
ABWF WORKS 36 04APR05A 18MAR06 50 100 24 -56 -283 1802 Admin.Bidg Design state cladding 36 04APR05A 18MAR06 50 100 24 -56 -283 1803 Admin.Bidg Design state cladding 36 04APR05A 18MAR06 50 100 24 -56 -283 PROCUREMENT - MATERIAL	DESIG	N & ENGINEERING								
1803 Admin.Bldg Design slate cladding 36 04APR05A 18MAR06 50 100 24 -56 -283 PROCUREMENT - MATERIAL Admin.Bldg Procure wood ceiling 90 19JAN05A 04MAR06 0 100 12 -185 -145 1904 Admin.Bldg Procure balustrade & metal works 90 09MAR05A 04MAR06 0 100 12 -185 -145 1904 Admin.Bldg Procure aluminium cladding 90 09MAR05A 04MAR06 0 100 12 -177 -199 1916 Admin.Bldg Procure slate cladding 90 09MAR05A 04MAR06 0 100 12 -86 -271 1916 Admin.Bldg Procure slate cladding 90 14MAR05A 04MAR06 0 100 12 -66 -67 1902 Admin.Bldg Procure GRP water tank 90 16MAR05A 04MAR06 0 100 12 -77 -63 6391 AdmBldg-Proc & Manuf. UV power dist. equip't 120 20MAR05A 05MAYO5A 05MAYO5 05MAYO5 05MAY										
PROCUREMENT - MATERIAL ABWF WORKS Image: Constraint of the state of the st	1802	Admin.Bldg Design stone cladding	36 04APR05A	18MAR06	50	100	24	-56	-283	
ABWF WORKS 1904 Admin.Bldg Procure wood ceiling 90 19JAN05A 04MAR06 0 100 12 -185 -145 1909 Admin.Bldg Procure balustrade & metal works 90 09MAR05A 04MAR06 0 100 12 -185 -145 1909 Admin.Bldg Procure balustrade & metal works 90 09MAR05A 04MAR06 0 100 12 -186 -217 1916 Admin.Bldg Procure slate cladding 90 09MAR05A 04MAR06 50 100 12 -86 -217 1902 Admin.Bldg Procure slate cladding 90 14MAR05A 04MAR06 50 100 12 -86 -677 1902 Admin.Bldg Procure GRP water tank 90 16MAR05A 04MAR06 0 100 12 -777 -163 6391 AdmBldg-Proc & Manuf. LV power dist. equip't 120 20MAR05A 12JUN06 40 100 90 -152 -251 6397 AdmBldg-Proc & Manuf. of CMCS, ELV & TCS sys 180 25MAR05A 25AUG06 15 100 153 -189	1803	Admin.Bldg Design slate cladding	36 04APR05A	18MAR06	50	100	24	-56	-283	
1904 Admin.Bldg Procure wood ceiling 90 19JAN05A 04MAR06 0 100 12 -185 -145 1909 Admin.Bldg Procure balustrade & metal works 90 09MAR05A 04MAR06 0 100 12 -177 -199 1910 Admin.Bldg Procure aluminium cladding 90 09MAR05A 04MAR06 0 100 12 -86 -217 1910 Admin.Bldg Procure slate cladding 90 09MAR05A 04MAR06 50 100 12 -86 -217 1916 Admin.Bldg Procure slate cladding 90 14MAR05A 04MAR06 50 100 12 -86 -67 1902 Admin.Bldg Procure GRP water tank 90 16MAR05A 04MAR06 0 100 12 -177 -163 6391 AdmBldg-Proc & Manuf. LV power dist. equip't 120 20MAR05A 12JUN06 40 100 90 -152 -251 6390 AdmBldg-Proc & Manuf. of CMCS, ELV & TCS sys 180 25MAR05A 25AUG06 15 100 153 -244 190<	PROCU	REMENT - MATERIAL								
Image: Normal Signer	ABWF V	VORKS								
1910 Admin.Bldg Procure aluminium cladding 90 09MAR05A 04MAR06 0 100 12 -86 -217 1910 Admin.Bldg Procure slate cladding 90 14MAR05A 04MAR06 50 100 12 -86 -217 1902 Admin.Bldg Procure GRP water tank 90 16MAR05A 04MAR06 0 100 12 -86 -67 1902 Admin.Bldg Procure GRP water tank 90 16MAR05A 04MAR06 0 100 12 -177 -163 6391 AdmBldg-Proc & Manuf. LV power dist. equip't 120 20MAR05A 12JUN06 40 100 90 -152 -251 6390 AdmBldg-Proc & Manuf. of HV dist. equip't 120 25MAR05A 06MAY06 90 100 60 -122 -257 6397 AdmBldg-Proc & Manuf. of CMCS, ELV & TCS sys 180 25MAR05A 25AUG06 15 100 153 -189 -244 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10	1904	Admin.Bldg Procure wood ceiling	90 19JAN05A	04MAR06	0	100	12	-185	-145	
1916 Admin.Bldg Procure slate cladding 90 14MAR05A 04MAR06 50 100 12 -86 -67	1909	Admin.Bldg Procure balustrade & metal works	90 09MAR05A	04MAR06	0	100	12	-177	-199	
1902 Admin.Bldg Procure GRP water tank 90 16MAR05A 04MAR06 0 100 12 -177 -163 6391 AdmBldg-Proc & Manuf. LV power dist. equip't 120 20MAR05A 12JUN06 40 100 90 -152 -251 6390 AdmBldg-Proc & Manuf. of HV dist. equip't 120 25MAR05A 06MAY06 90 100 60 -122 -257 6397 AdmBldg-Proc & Manuf. of CMCS, ELV & TCS sys 180 25MAR05A 25AUG06 15 100 153 -189 -244	1910	Admin.Bldg Procure aluminium cladding	90 09MAR05A	04MAR06	0	100	12	-86	-217	
6391 AdmBldg-Proc & Manuf. LV power dist. equip't 120 20MAR05A 12JUN06 40 100 90 -152 -251 -251 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - </td <td>1916</td> <td>Admin.Bldg Procure slate cladding</td> <td>90 14MAR05A</td> <td>04MAR06</td> <td>50</td> <td>100</td> <td>12</td> <td>-86</td> <td>-67</td> <td></td>	1916	Admin.Bldg Procure slate cladding	90 14MAR05A	04MAR06	50	100	12	-86	-67	
6390 AdmBldg-Proc & Manuf. of HV dist. equip't 120 25MAR05A 06MAY06 90 100 60 -122 -257	1902	Admin.Bldg Procure GRP water tank	90 16MAR05A	04MAR06	0	100	12	-177	-163	
6397 AdmBldg-Proc & Manuf. of CMCS, ELV & TCS sys 180 25MAR05A 25AUG06 15 100 153 -189 -244	6391	AdmBldg-Proc & Manuf. LV power dist. equip't	120 20MAR05A	12JUN06	40	100	90	-152	-251	
	6390	AdmBldg-Proc & Manuf. of HV dist. equip't	120 25MAR05A	06MAY06	90	100	60	-122	-257	
6444 AdmBldg-Proc & Manuf. FS AFA & FM200 sys 120 25MAR05A 04JUL06 40 100 90 -56 -149	6397	AdmBldg-Proc & Manuf. of CMCS, ELV & TCS sys	180 25MAR05A	25AUG06	15	100	153	-189	-244	
	6444	AdmBldg-Proc & Manuf. FS AFA & FM200 sys	120 25MAR05A	04JUL06	40	100	90	-56	-149	

Act.	Activity	Orig	Early	Early	%	DWP %	Rem	Total	Variance	DEC	JAN	FEE		MAR	APR	MAY	JUN
ID	Description	Dur		Finish		Compl.	Dur	Float	arly Finis	27 12 19 26	28 2 9 16 23	29 30 6 13	20 27	30 6 13 20 27	31 3 10 17 24	32 1 8 15 22 29	33 9 5 12
ABWF W	VORKS																
1917	Admin.Bldg Procure stone cladding	90	03MAY05A	04MAR06	50	100	12	-86	-67								
1905	Admin.Bldg Procure suspended ceiling	120	09MAY05A	01APR06	0	80	36	-54	-19								
6394	AdmBldg-Proc & Manuf. FS wet sys	90	06JUN05A	12JUN06	30	100	90	-62	-275								
6393	AdmBldg-Proc & Manuf. PD fresh & flush water sys	90	30SEP05A	04JUL06	10	100	90	-80	-317								
8504	AdmBldg-Proc & Manf bldg related luminaires	180	23NOV05A	19OCT06	90	100	180	-170	-245								
	AdmBldg-Proc & Manuf. FCUs & PAUs	90	06JAN06A	29JUN06	10	100	90	-203	-302								
6479	AdmBldg-Proc & Manuf. Chiller & Pumps	90	01FEB06A	21JUN06	5	100	80	-136	-253								
1938	Admin.Bldg Initial delivey glass canopy	0	20FEB06		0	0	0	-177	0								
2055	Admin.Bldg Initial delivery curtain wall	0	23FEB06		0	0	0	-162	0				•				
6395	AdmBldg-Proc & Manuf. MVAC mech.vent. sys	90	13MAR06	04JUL06	0	100	90	-206	-305								
2060	Admin.Bldg Initial delivery balust & mtl wks	0	20MAR06		0	0	0	-177	0				1	•			
2059	Admin.Bldg Initial delivery fall arrest syst	0	22MAR06		0	0	0	-10	0					•			
2057	Admin.Bldg Initial delivery doors & windows	0	03APR06		0	0	0	-189	484						•		
2054	Admin.Bldg Initial delivery louvres	0	11APR06		0	0	0	-26	0						•		
2056	Admin.Bldg Initial delivery sheet decking	0	11APR06		0	0	0	-195	0						•		
2058	Admin.Bldg Initial delivery wood ceiling	0	10MAY06		0		0	-185	-572							•	
2063	Admin.Bldg Initial delivery GRP water tank	0	15MAY06		0		0	-201	0				1			•	
MAJOR	EQUIPMENT DELIVERY																
	STRATION BUILDING																
6401	AdmBldg-Del. LV power dist. equip't to 2/F	48		08AUG06	50		48	-152	-251								
6400	AdmBldg-Del. HV power dist. equip't to 2/F	48	08MAY06	04JUL06	0		48	-122	-257								
INTERF	ACE DATES																
ADMINIS	STRATION BUILDING																
1827	Int. MS - Admin.Bldg E&M 1/F access (partial)	0		04MAR06	0	100	0	-114	-187					♦			
4003	Int. MS - Admin.Bldg E&M G/F access (full)	0		04MAR06	0	100	0	661	-181					\diamond			

Act.	Activity	Orig Early	Early	%	DWP %	Pom	Total	larianco	DEC	JAN	FEB	MAR	APR	MAY	JUN
ID	,	Dur Start	Finish							28	29	30 20 27 6 13 20	31	32	33
	STRATION BUILDING	1 1	I	· ·		1	1 1	,							
	AdmBldg-E&M access to G/F (partial)	0 06MAR06'		0	100	0	-122	-197				•			
6406	AdmBldg-E&M access to 1/F (partial)	0 06MAR06		0	100	0	-114	-187				•			
1828	Int. MS - Admin.Bldg E&M 2/F access (partial)	0	18MAR06	0	100	0	-122	-175				•			
6402	AdmBldg-E&M access to 2/F (partial)	0 20MAR06		0	100	0	-122	-175				•			
4004	Int. MS - Admin.Bldg E&M 1/F access (full)	0	06MAY06	0		0	613	-181						\diamond	
CONST	RUCTION														
CIVIL &	ABWF WORKS														
SUBSTR	UCTURE														
6398	Admin.Bldg Earth Mat & Rods - All in ptn D4	36 30MAR06	17MAY06	0	100	36	-108	-376							
RC SUPE	ERSTRUCTURE														
NORTH [GI	•		071414004	100	100			100							
	Admin.Bldg Nth - Roof Slab	24 07DEC05A		100	100	0		-163							
	Admin.Bldg Nth - Columns & walls 3F to Upp Roof	24 24DEC05A		0	100	2	-125	-165				ľ_			
	Admin.Bldg Nth - Upper Roof Slab	24 27DEC05A	25FEB06	0	100	6	-105	-157							
SOUTH [GI	Admin.Bldg Sth - Columns & walls 3F to Upp Roof	24 17JAN06A	21FEB06	95	100	2	-58	-153							
	Admin.Bldg Sth - Upper Roof Slab	24 21JAN06A		80	100	6	32	-153							
ABWF			UTWATCO	00			52	-100							
	ROOMS														
	Admin.Bldg Crit Rm - Int. Blockwork GF	12 05DEC05A	20FEB06A	100	100	0		-188							
1731	Admin.Bldg Crit Rm - Int. Blockwork 1F	12 20FEB06	04MAR06	0	100	12	-171	-187			''				
1804	Admin.Bldg Crit Rm - Ext. Doors & Glazing GF	18 20FEB06	11MAR06	0	100	18	-177	-205			1				
	Admin.Bldg Crit Rm - Int. Blockwork 2F	12 06MAR06		0	100	12	-165	-175							
	Admin.Bldg Crit Rm - Ext. Glazing 1F	18 13MAR06		0	100	18	-177	-193							
	Admin.Bldg Crit Rm - Ext. Glazing 2F	18 03APR06		0		18	-177	-187							
	Admin.Bldg Crit Rm - Int. Finishes GF	18 11APR06		0	100	18	-195	-229							
1422	Admin.Bldg Crit Rm - Int. Finishes 1F	12 08MAY06	20MAY06	0		12	-195	-229							

Act.	Activity	Orig	Early	Early	%	DWP %	Rem	Total	Variance	DEC	JAN	FEB	MAR	APR	MAY	JUN
ID	Description	Dur	Start	Finish	Compl.	Compl.	Dur	Float	arly Finis	27 12 19 26	28 2 9 16 23 3	29 0 ₁ 6 13 20	30) 27 6 13 20 27	31 3 10 17 24	32 1 8 15 22	29 5 12
								1								
1748	Admin.Bldg Crit Rm - Int. Blockwork - 3F to Roof	12	15MAY06	27MAY06	0		12	-201	-217							4
4500	Admin Dida Crit Dro. Int. Finishan 25	18	221441/00		0		10	105	205						_	
1523	Admin.Bldg Crit Rm - Int. Finishes 2F	18	22MAY06	12JUN06	0		18	-195	-205							
1735	Admin.Bldg Crit Rm - Ext. Glazing 3F	18	29MAY06	19JUN06	0		18	-201	-211							
			20110 11 00		Ŭ											
REMAININ																
1792	Admin.Bldg Oth Rm - Int. Blockwork GF	24	06JAN06A	04MAR06	0	100	12	-134	-181							
					-								_	_		
1793	Admin.Bldg Oth Rm - Int. Blockwork 1F	24	06MAR06	01APR06	0	100	24	-134	-181				-	-		
1805	Admin.Bldg Oth Rm - Ext. Doors & Windows GF	24	06MAR06	01APR06	0	100	24	-134	-181							
1003	Admin.blug Oth Am - Ext. Doors & Windows Gr	24		UTAFIXUU	0	100	24	-134	-101					T		
1794	Admin.Bldg Oth Rm - Int. Blockwork 2F	24	03APR06	06MAY06	0		24	-116	-181							
	5															
1796	Admin.Bldg Oth Rm - Ext. Glazing 1F	30	03APR06	13MAY06	0		30	-134	-181							
1798	Admin.Bldg Oth Rm - Int. Finishes GF	36	03APR06	20MAY06	0		36	-116	-181							
1700	Admin.Bldg Oth Rm - Int. Finishes 1F	36	21APR06	05JUN06	0		36	-116	-181							
1799	Admin.Bidg Oth Rm - Int. Finishes TF	30	ZTAPRUO	00101000	0		30	-110	-181							
1800	Admin.Bldg Oth Rm - Int. Finishes 2F	36	08MAY06	19JUN06	0		36	-116	-181							
					Ŭ		00									
1440	Admin.Bldg Oth Rm - Ext. Glazing 2F	30	15MAY06	19JUN06	0		30	-134	-181							
1806	Admin.Bldg Oth Rm - Int. Blockwork - 3F to Roof	12	15MAY06	27MAY06	0		12	-116	-187							1
	DRKS - GENERAL															
FS WOR																
	EQUIPMENT AdmBldg-Hydrant Pump & Tank set 1st fix	40	1014000	101401/00	0	100	40	10	202							
0411	Admbidg-Hydrant Pump & Tank set 1st lix	48	13MAR06	13MAY06	0	100	48	10	-203							
FLECTR	ICAL WORKS				1	I		l								<u> </u>
1 C	R DISTRIBUTION MAJOR EQPT.															
	AdmBldg-HV power dist. sys 1st fix	36	06MAR06	20APR06	0	100	36	-98	-197							
	R DISTRIBUTION MAJOR EQPT.				1	1				-						
6418	AdmBldg-LV power dist. sys 1st fix	36	21APR06	05JUN06	0		36	-98	-197							
P&D WO	DKS				I			I								
	RKS REQUIPMENT															
	AdmBldg-Water Pumps & Tanks 1st fix	24	06MAR06	01APR06	0	100	24	40	-197							
					Ŭ											
TCSS C	ONTAINMENT															
8483	AdminBldg - TCSS Contain't for KD7	24	29MAY06	26JUN06	0		24	-201	-211							
	-															

Act.	Activity	Orig		Early	%	DWP %	Rem	Total	Variance	DEC	JAN	FEB 29		MAR 30	APR 31	MAY 32	JUN 33
ID	Description	Dur	Start	Finish	Compl.	Compl.	Dur	Float	arly Finis	12 19 26	28 2 9 16 23	30 6 13	20 2		3 10 17 24 1		2 29 5 12
ADMINI	STRATION BLDG G/F																
MVAC V	VORKS																
	WATER SYSTEM																
6452	AdmBldg G/F -AC(1st Fix) Chilled water sys	42	21APR06	12JUN06	0		42	-104	-197								
	NT / AIR CONDITIONING																
6405	AdmBldg G/F -AC(1st Fix) mech.vent.	36	06MAR06	20APR06	0	100	36	-122	-197								
	EXHAUST				1 1												
6484	AdmBldg G/F -AC(1st Fix) Kitchen Exhaust	30	21APR06	27MAY06	0		30	-92	-197								
ELECTR	RICAL WORKS																
	UBMAIN DISTRIBUTION																
6421	AdmBldg G/F -ES(1st Fix) Main & Sub-main dist.	60	21APR06	04JUL06	0		60	-122	-197								
FINAL CIF		_															
6422	AdmBldg G/F -ES(1st Fix) Final Circuit dist.	60	21APR06	04JUL06	0		60	-122	-197								
ELV WC	DRKS																
6426	AdmBldg G/F -ELV(1st Fix) CMCS & Misc Works	96	15MAY06	05SEP06	0		96	-114	-197)							
	STRATION BLDG 1/F																
MVAC V																	
	WATER SYSTEM																
	AdmBldg 1F-AC(1st Fix) Chilled water sys	48	28APR06	26JUN06	0		48	-114	-187								
					-												
MECH.VE	NT / AIR CONDITIONING																
6407	5AdmBldg 1F-AC(1st Fix) mech.vent.	42	06MAR06	27APR06	0	100	42	-114	-187								
ELECTR	RICAL WORKS																
	UBMAIN DISTRIBUTION																
6437	AdmBldg 1F-ES(1st Fix) Main & Sub-main dist.	42	28APR06	19JUN06	0		42	-102	-187								
FINAL CIF																	
6438	AdmBldg 1F-ES(1st Fix) Final Circuit dist.	36	28APR06	12JUN06	0		36	-102	-187								
ADMINI	STRATION BLDG 2/F																
MVAC V																	
	WATER SYSTEM																
	AdmBldg 2F-AC(1st Fix) Chilled water sys	48	22MAY06	18JUL06	0		48	-110	-175								
MECH.VE	INT / AIR CONDITIONING	1			1 1												
6403	AdmBldg 2F-AC(1st Fix) mech.vent.	48	20MAR06	20MAY06	0	100	48	-122	-175								
					. 1				1				-		· .		1

Act.	Activity	Orig	Early	Early	%	DWP %	Rom	Total	Variance	DEC	JAN	FEB	MAR	APR	MAY	JUN
ID	Description		Start	Finish		Compl.				27	28 2 9 16 23 3	29 0 6 13 20	30) 27 6 13 20 2	31 7 3 10 17 24	32 1 8 15 22 29 5	33
Electrica	1 · · · · · · · · · · · · · · · · · · ·						1									
	UBMAIN DISTRIBUTION															
6433	AdmBldg 2F-ES(1st Fix) Main & Sub-main dist.	30 22	MAY06	26JUN06	0		30	-120	-175							
FINAL CIR			ļ													
	AdmBldg 2F-ES(1st Fix) Final Circuit dist.	42 22	MAY06	11JUL06	0		42	-86	-175							
STATU	ITORY INSPECTIONS															
FSD INS	SPECTIONS															
6468	AdmBldg-All FS design approved by FSD (MHJV)	0 20	FEB06		0	100	0	-32	-203			•				
6493	AdmBldg-Issue, endorse & submit FSI 314 to FSD	6 06	MAR06	11MAR06	0	100	6	-32	-203							
SHATIN	N HEIGHTS SOUTH PORTAL BUILDING															
SUBMIT	ITALS & APPROVALS															
ABWF 8	& BUILDER'S WORKS															
2000	SHT SPB - Approve door & window details	24 03.	JUN05A	04MAR06	0	100	12	28	-141							
						100	10		105							
2006	SHT SPB - Prep & sub balustrade & metal wks	24 13.	JUL05A	04MAR06	50	100	12	-2	-165							
2007	SHT SPB - Approve balustrade & metal works	24 130	DEC05A	04MAR06	0	100	12	-2	-141							
E&M E	QPT. / MTRL. SUBMITTALS	1 1	ļ		1	II	I	1 1								
8268	ShtSpBldg-Sub.MVAC MCC, power & control sys	54 02.	JUL04A	27APR06	95	100	54	-168	-279							
8270	ShtSpBldg-Sub.FS AFA & FM200 sys	54 05	JUL04A	24FEB06	99	100	5	-14	-96							
8269	ShtSpBldg-Sub.FS wet sys	54 05A	AUG04A	24FEB06	99	100	5	-84	-176							
8267	ShtSpBldg-Sub.MVAC / TVF pneumatic sys	54 144	AUG04A	20APR06	95	100	48	-98	-117							
8263	ShtSpBldg-Sub.CMCS & ELV sys	78 264	AUG04A	06MAY06	98	100	60	-76	-219							
8272	ShtSpBldg-Sub.PD irrig. sys	54 04F	FEB05A	27APR06	85	100	54	-84	-231							
E&M E	QPT. / MTRL. APPROVALS	· · ·	1		ı 			1 1								
	ShtSpBldg-App. PD cleans. & flush water sys	18 044	AUG04A	11MAR06	85	100	18	-60	-177							
8507	ShtSpBldg-App. building related luminaires	18 18A	AUG04A	11MAR06	90	100	18	-16	-201							
7155	ShtSpBldg-App. FS wet sys	18 048	SEP04A	11MAR06	80	100	18	-84	-171							
7205	ShtSpBldg-App. FS AFA & FM200 sys	18 149	SEP04A	11MAR06	85	100	18	-14	-91							
7085	ShtSpBldg-App. of CMCS & ELV sys	18 205	SEP04A	11MAR06	88	100	18	-76	-159							
					1		I									

Act.	Activity	Orig	Early	Early	%	DWP %	Pom	Total	Variance	DEC	JAN	FEE	3	MAR	APR	MAY	JUN
ID		Dur	Start	Finish							28 2 9 16 23	29	20 .27	30 6 13 20 27	31 3 10 17 24	32	33 2 29 5 12
	QPT. / MTRL. APPROVALS				1		1 -	11		12 13 20			20 21				2 23 5 12
	ShtSpBldg-App. MVAC mech.vent. sys	18	23SEP04A	11MAR06	80	100	18	-144	-165	-							
										-							
7147	ShtSpBldg-App. MVAC MCC, power & control sys	18	12NOV04A	11MAR06	80	100	18	-168	-225								
71/0	ShtSpBldg-App. MVAC / TVF pneumatic sys	18	07MAR05A	20MAY06	80		18	-104	-123								
1140	onopolog-app. wvao / tvt preunate sys			201017100	00		10	-104	-125								
7229	ShtSpBldg-App. PD irrig. sys	18	05MAY05A	11MAR06	30	100	18	-84	-177	-							
	REMENT - MATERIAL																
E & M W						1	1										
7047	ShtSpBldg-Proc & Manuf. LV power dist. equip't	180	20MAR05A	12JUN06	40	100	90	-74	-117								
2024	SHT SPB - Procure balustrade & metal works	120	24MAR05A	04MAR06	50	90	12	-2	-21								
2024		120	24101/00000	0410/0700	00	50	12		21					-			
7041	ShtSpBldg-Proc. & Manuf. of HV dist. equip't	180	25MAR05A	06MAY06	90	100	60	-32	-93								
7000		100		40411000			4.40	70	404								
7086	ShtSpBldg-Proc. & Manuf. of CMCS & ELV sys	180	25MAR05A	10AUG06	20	80	140	-76	-101						<u></u>		
7148	ShtSpBldg-Proc & Manuf. MCC, power & control sys	180	25MAR05A	02SEP06	10	100	160	-168	-187								
7206	ShtSpBldg-Proc & Manuf. FS AFA & FM200 sys	120	25MAR05A	04JUL06	40	40	90	-14	-61						·		
7156	ShtSpBldg-Proc & Manuf. FS wet sys	120	06JUN05A	18JUL06	30	100	120	-84	-153								
7150	Shispbuy-rioc & Mahul. rS wel sys	120	UUJUNUJA	1010100	30	100	120	-04	-155								
7134	ShtSpBldg-Proc & Manuf. TVF,Ductwks & Cont'l sys	180	09JUN05A	18JUL06	40	90	120	-98	-117	-							
7210	ShtSpBldg-Proc & Manuf. Cleans & flush water sys	120	30SEP05A	04JUL06	10	100	90	-60	-147								
8508	ShtSpBldg-Proc & Manf bldg related luminaires	180	23NOV05A	16MAY06	90	90	50	-16	-71								
			20.00.000														
7102	ShtSpBldg-Proc & Manuf. MVAC Package AC Units	120	11JAN06A	12JUN06	10	60	90	-20	-63								
7447	Obto Dide Des a 9 March MM/AO reach worth ave	100		00411000	-	400	100	444	405	-							
7117	ShtSpBldg-Proc & Manuf. MVAC mech.vent. sys	120	13MAR06	08AUG06	0	100	120	-144	-165								
7230	ShtSpBldg-Proc & Manuf. PD irrig. sys	120	13MAR06	08AUG06	0	100	120	-84	-177								
7141	ShtSpBldg-Proc & Manuf. MVAC / TVF pneumatic sys	120	22MAY06	12OCT06	0		120	-104	-123								
						I											
E&M W0		40		09411000	50		40	74	-117								
7048	ShtSpBldg-Del. LV power dist. equip't to 2/F	48	22DEC05A	08AUG06	50		48	-74	-117								
7042	ShtSpBldg-Del. HV power dist. equip't to 2/F	48	08MAY06	04JUL06	0		48	-32	-93	1							
																_	
8509	ShtSpBldg-Del. building related luminaires	48	17MAY06	13JUL06	0		48	-16	-71			_					

	Activity Description CE DATES t M/S - SHT Sth Ptal Bldg-E&M access Ext.Elev	Orig Early Dur Start	Early Finish	% Compl.	DWP %					28	29		30	31	32	33
					oompi.	Dui	Float	arly Finis	12 19 26	2 9 16 23	30 6 1	3 20 2		3 10 17 24	1 8 15 22 29	5 12
	-	0	04MAR06	0	0	0	28	-9			$\mathbf{>}$	Û	\diamond			
1854 Int	t M/S - SHT S Ptal Bldg - E&M access 3/F	0	04MAR06	0	0	0	-2	-21			Ŷ		•			
1855 Int	t M/S - SHT S Ptal Bldg - E&M access G/F	0	04MAR06	0	0	0	-2	-21			Ŷ		•			
1859 Int	t M/S - SHT S Ptal Bldg - E&M access 2/F	0	04MAR06	0	0	0	-2	-21			Û		•			
1856 Int	t M/S - SHT S Ptal Bldg - E&M access 1/F	0	11MAR06	0	0	0	4	-21			4	Ļ	•			
1857 Int	t M/S - SHT S Ptal Bldg - E&M access Plenum	0	18MAR06	0	0	0	-2	-21				Û	•			
1858 Int	t M/S - SHT S Ptal Bldg - E&M access Roof	0	18MAR06	0	0	0	10	-21				Û	•			
	htSpBldg-E&M access to 3/F	0 03APR06*		0		0	-26	-45	ſ		Û			•		
7034 Sł	htSpBldg-E&M access to 2/F	0 03APR06*		0		0	-26	-45			Û			•		
7035 Sł	htSpBldg-E&M access to G/F	0 03APR06*		0		0	-26	-45			Û			•		
	htSpBldg-E&M access to 1/F	0 03APR06*		0		0	-14	-39		\mathbf{N}	1	Ļ		•		
7037 Sł	htSpBldg-E&M access to Plenum	0 03APR06*		0		0	-14	-33				Û		•		
7038 Sh	htSpBldg-E&M access to Roof (Exhaust Shaft)	0 03APR06*		0		0	-2	-33				Û		•		
7039 Sh	htSpBldg-E&M access to External Elevation	0 03APR06*		0		0	4	-33				Û		•		
CONSTRU	UCTION															
ARCHITEC	CTURAL & BUILDER'S WORKS															
ROOFING	& EXTERNAL FACADE															
1811 SH	HT Sth PBldg - Ext. Doors & Windows	33 20FEB06	29MAR06	0	0	33	28	-9			/_			ו		
BUILDER'S	SWORK															
1808 SH	HT Sth PBldg - Wet Trades 1FL	16 06MAR06	23MAR06	0	0	16	4	-21			_	_				
1815 SH	HT Sth PBldg - Wet Trades GL	16 06MAR06	23MAR06	0	0	16	-2	-21				╇				
1851 SH	HT Sth PBldg - Wet Trades 2FL	16 06MAR06	23MAR06	0	0	16	-2	-21				╇				
1852 SH	HT Sth PBldg - Wet Trades 4FL	16 06MAR06	23MAR06	0	0	16	-2	-21				╇				
1860 SH	HT Sth PBldg - Wet Trades 3FL	16 06MAR06	23MAR06	0	0	16	-2	-21				╇				
1861 SF	HT Sth PBldg - Wet Trades 5FL	16 06MAR06	23MAR06	0	0	16	10	-21								

Act.	Activity	Orig	Early	Early	%	DWP %	Rem	Total	Variance	DE 27		JAN 28	FEB 29		MAR 30	APR 31	MAY 32	JUN 33
ID	Description	Dur	Start	Finish	Compl.	Compl.	Dur	Float	arly Finis	27 12 ₁ 19	26	28 2 9 16 23 30	29 D 6 13	20 27				2 29 5 12
E&M - G	ENERAL																	
MVAC W	/ORKS																	
MCC, POV	VER & CONTROL																	
7150	ShtSpBldg-MCC, power & control 1st fix	36	03APR06	20MAY06	0		36	-26	-45									
FS WOR								I										
	R EQUIPMENT		1	1														
7158	ShtSpBldg-Hydrant Pump & Tank set 1st fix	48	03APR06	05JUN06	0		48	0	-45									
TUNNEL	HYDRANT + HOSE REEL							1										
7163	ShtSpBldg-ENT Tunnel (Hyd/HR) pumps set 1st fix	24	03APR06	06MAY06	0		24	60	-45									
ELECT	RICAL WORKS																	
HV POWE	ER DISTRIBUTION MAJOR EQPT.																	
7043	ShtSpBldg-HV power dist. sys 1st fix	24	03APR06	06MAY06	0		24	-2	-45									
LV POWE	R DISTRIBUTION MAJOR EQPT.																	
7049	ShtSpBldg-LV power dist. sys 1st fix	18	21APR06	13MAY06	0		18	-2	-45					_				
EARTHIN		1	I	1	1	1		1										
7083	ShtSpBldg-Earth'g & lightn'g protection 2nd fix	54	03APR06	12JUN06	0		54	4	-33			>						
PLUMB		1	1	1	1	1												
	DN SYSTEM																	
7212	ShtSpBldg-Cleansing Water Pumps & Tanks 1st fix	18	03APR06	27APR06	0		18	42	-45						1			
7232	ShtSpBldg-irrig. Water Pumps & Tanks 1st fix	18	03APR06	27APR06	0		18	48	-45									
8310	ShtSpBldg Ext-PD(1st Fix) irrig. sys	24	03APR06	06MAY06	0		24	73	-45									
TUNNE	L VENTILATION SYSTEM	- 1		1	1	1		1										
	ShtSpBldg-AC/TVF TVF, Duct & Control 1st fix	48	03APR06	05JUN06	0		48	-14	-33									
E&M G	 			l	1	1		1										
MVAC W																		
	VORKS NT./AIR CONDITIONING																	
	ShtSpBldg G/F-AC(1st Fix) mech.vent.	24	03APR06	06MAY06	0		24	-26	-45									
			00/11/00		Ŭ		<u></u>	20										
	NICAL WORKS																	
	JB-MAIN DISTRIBUTUION	0.4	001411/00		0		0.4	00	45									
	ShtSpBldg G/F-ES(1st Fix) Main & Sub-main dist.	24	08MAY06	05JUN06	0		24	-26	-45									
FINAL CIR				10 11 11 12	-	-		6-	<i>x</i> =									
7067	ShtSpBldg G/F-ES(1st Fix) Final Circuit dist.	30	08MAY06	12JUN06	0		30	-26	-45									

Act.	Activity	Orig	Early	Early	%	DWP %	Rem	Total	Variance	DEC	JAN		FEB		MAR	APR	MAY	JUN
ID	Description	Dur		Finish	Compl.	Compl.	Dur	Float	arly Finis	27 12 19 26	28 2 9 16	23 3	29 0 ₁ 6 ₁ 13	20 27	30 7 6 13 20 27	31 3 10 17 24	32 1 8 15 22 29	33 5 12
E&M 1/F																		
MVAC W	ORKS									\								
	NT./AIR CONDITIONING																	
7122	ShtSpBldg 1F-AC(1st Fix) mech.vent.	42	03APR06	27MAY06	0		42	-14	-39									
FS WOR																		
WET DIST		10	(=) (0)	071411/00			10											
/169	ShtSpBldg 1F-FS(1st Fix) Wet dist. sys	12	15MAY06	27MAY06	0		12	-14	-39									
	RIBUTION																	
	ShtSpBldg 1F-FS(1st Fix) AFA dist.	18	15MAY06	05JUN06	0		18	-14	-39									
FM200 SYS							-											
7200	ShtSpBldg 1F-FM200 sys 1st fix	24	15MAY06	12JUN06	0		24	52	-39									
1																		
	IB-MAIN DISTRIBUTUION ShtSpBldg 1F-ES(1st Fix) Main & Sub-main dist.	24	29MAY06	26JUN06	0		24	-14	-39								-	
1057		24	291VIA 100	2010100	0		24	-14	-39									
FINAL CIR	CUIT	1	1	1	1 1													
7070	ShtSpBldg 1F-ES(1st Fix) Final Circuit dist.	30	03APR06	13MAY06	0		30	-14	-39	((
7074	ShtSpBldg 1F-ES(2nd Fix) Final Circuit dist.	24	15MAY06	12JUN06	0		24	-14	-39									
	NG & DRAINAGE WORKS																_	
7217	ShtSpBldg 1F-PD(1st Fix) dist. sys	18	29MAY06	19JUN06	0		18	16	-39								•	
E&M 2/F																		
										· /								
MVAC W	VRKS IT./AIR CONDITIONING																	
	ShtSpBldg 2F-AC(1st Fix) mech.vent.	36	03APR06	20MAY06	0		36	-20	-45									
1120		50	0041100	201017100	Ū		50	-20	-40)			
ELECTR	ICAL WORKS		1	1	1													
	IB-MAIN DISTRIBUTUION																	
7056	ShtSpBldg 2F-ES(1st Fix) Main & Sub-main dist.	30	22MAY06	26JUN06	0		30	-20	-45									
FINAL CIR		- /	0040000	40 11 11 100			E A	00	45									
7069	ShtSpBldg 2F-ES(1st Fix) Final Circuit dist.	54	03APR06	12JUN06	0		54	-26	-45									
E&M 3/F			I	I														
MVAC W																		
1	IT./AIR CONDITIONING																	
	ShtSpBldg 3F-AC(1st Fix) mech.vent.	30	03APR06	13MAY06	0		30	-24	-45									
			00/11/00		Ĭ		50	_ <u>-</u> ·	10									
e const								. 1										

Act.	Activity	Orig	Early	Early	%		Rom	Total	Variance	DEC		JAN		FEB		MAR	APR	MAY	JUN
ID	Description	Dur		Finish		Compl.					26 2	28	.23 .30	29	20 .2	30 27 6 13 20 27	31	32	22 29 5 12
FS WOR	· · ·									12 13			23 50		20 4			1 0 13	
WET DIST																			
7168	ShtSpBldg 3F-FS(1st Fix) Wet dist. sys	24	24MAY06	21JUN06	0		24	-2	-45										
											\square								
AFA DISTR		30	241442/00	28JUN06	0		20	14	45	_									
7 185	ShtSpBldg 3F-FS(1st Fix) AFA dist.	30	24MAY06	28JUIN06	0		30	14	-45									_	
FM200 SY	STEM							1			\vdash								
7199	ShtSpBldg 3F-FM200 sys 1st fix	18	24MAY06	14JUN06	0		18	68	-45										
ELECTR	ICAL WORKS																		
MAIN & SU	JB-MAIN DISTRIBUTUION																		
7055	ShtSpBldg 3F-ES(1st Fix) Main & Sub-main dist.	42	28APR06	19JUN06	0		42	-8	-45										
FINAL CIR	CUIT				1	1		1	1		-				-				
	ShtSpBldg 3F-ES(1st Fix) Final Circuit dist.	38	03APR06	23MAY06	0		38	-2	-45	1 (
7073	ShtSpBldg 3F-ES(2nd Fix) Final Circuit dist.	24	24MAY06	21JUN06	0		24	8	-45							_			
E&M RC	OOF	I	I	I	1	1		1	I		1								
ELECTR	ICAL WORKS																		
FINAL CIR					-														
7066	ShtSpBldg R/F-ES(1st Fix) Final Circuit dist.	36	03APR06	20MAY06	0		36	-2	-33						_				
7071	ShtSpBldg R/F-ES(2nd Fix) Final Circuit dist.	30	22MAY06	26JUN06	0		30	-2	-33										
STATU	TORY INSPECTIONS																		
	PECTIONS																		
	ShtSpBldg-All FS design approved by FSD (MHJV)	0	13MAR06		0	100	0	0	-45							•			
												Ŷ							
7240	ShtSpBldg-Issue, endorse & submit FSI 314 to FSD	6	27MAR06	01APR06	0		6	0	-45								P		
SHT TU	INNFI				1			1											
	TALS & APPROVALS																		
	QPT. / MTRL. SUBMITTALS																		
	ShtRtNb-Sub.TVS control sys	54	02JUL04A	27APR06	95	100	54	-86	-216						1				
8287	ShtRtSb-Sub.TVS control sys	54	02JUL04A	27APR06	95	100	54	-86	-216						÷			I	
				- ·											L				
8282	ShtRtNb-Sub.FS AFA & Linear sys	54	05JUL04A	24FEB06	99	100	5	-82	-245										
8288	ShtRtSb-Sub.FS AFA & Linear sys	54	05JUL04A	24FEB06	99	100	5	-82	-245										
8280	ShtRtNb-Sub.CMCS & ELV sys	78	26AUG04A	06MAY06	98	100	60	-102	-239										

Act.	Activity	Orig	Early	Early	%	DWP %	Rem	Total	Variance	DEC JAN FEB MAR APR MAY JUN
ID		Dur	-	Finish		Compl.				27 28 29 30 31 32 33 31 19 26 2 9 16 23 30 6 13 20 27 6 13 20 27 3 10 17 24 1 8 15 22 29 5 12
E&M E	QPT. / MTRL. SUBMITTALS		·							
8286	ShtRtSb-Sub.CMCS & ELV sys	78	26AUG04A	06MAY06	98	100	60	-94	-231	
	QPT. / MTRL. APPROVALS ShtRtSb-App. Tunnel Lgt sys	10	05AUG04A	11MAR06	80	100	18	-68	-180	
0930	Shirtisb-App. Tunner Lyt sys	10	05A0G04A	THVIARUU	00	100	10	-00	-160	
6991	ShtRtNb-App. Tunnel Lgt sys	18	05AUG04A	11MAR06	80	100	18	-89	-198	
6932	ShtRtSb-App. HV/LV main & submain dist. sys	18	13AUG04A	11MAR06	80	100	18	-32	-210	
6969	ShtRtSb-App. FS AFA & Linear sys	18	14SEP04A	11MAR06	85	100	18	-82	-240	
7022	ShtRtNb-App. FS AFA & Linear sys	18	14SEP04A	11MAR06	85	100	18	-82	-240	
6945	ShtRtSb-App. CMCS & TCS & ELV sys	18	20SEP04A	11MAR06	88	100	18	-94	-171	
6998	ShtRtNb-App. CMCS & ELV sys	18	20SEP04A	11MAR06	88	100	18	-102	-179	
6957	ShtRtSb-App. TVS control sys	18	12NOV04A	11MAR06	70	100	18	-86	-162	
7010	ShtRtNb-App. TVS control sys	18	12NOV04A	11MAR06	70	100	18	-86	-162	
PROCU	REMENT - MATERIAL							1		
SHT TU	NNEL NORTHBOUND									
6986	ShtRtNb-Proc & Manuf. ES Main & submain dist.	180	20MAR05A	06JUN06	40	90	85	-69	-97	
6999	ShtRtNb-Proc & Manuf. CMCS & ELV sys	180	25MAR05A	10AUG06	20	80	140	-102	-121	
7023	ShtRtNb-Proc & Manuf. FS AFA & Linear sys	180	25MAR05A	12JUN06	40	100	90	-82	-132	
7011	ShtRtNb-Proc & Manuf. TVS control sys	180	25MAY05A	02SEP06	10	80	160	-86	-124	
7628	ShtRtNb-Proc & Manuf. TVS in Tunnel	180	09JUN05A	12JUN06	60	90	90	-46	-84	
6992	ShtRtNb-Proc & Manuf. Tunnel Lgt sys	180	20JAN06A	04JUL06	0	90	90	-89	-108	
SHT TU	NNEL SOUTHBOUND									
6946	ShtRtSb-Proc & Manuf. CMCS & ELV sys	180	25MAR05A	10AUG06	20	70	140	-94	-113	
6970	ShtRtSb-Proc & Manuf. FS AFA & Linear sys	180	25MAR05A	12JUN06	40	100	90	-82	-132	
6933	ShtRtSb-Proc & Manuf. ES Main & submain dist.	180	20MAY05A	06MAY06	65	95	60	-32	-72	
6958	ShtRtSb-Proc & Manuf. TVS control sys	180	25MAY05A	02SEP06	10	70	160	-86	-124	
7625	ShtRtSb-Proc & Manuf. TVS in Tunnel	180	09JUN05A	12JUN06	60	90	90	-46	-84	

Act.	Activity	Orig	Early	Early	%	DWP %	Rem	Total	Variance	DEC	JAN	FEB		MAR	APR	MAY 32	JUN
ID	Description	Dur	Start	Finish	Compl.	Compl.	Dur	Float	arly Finis	27 12 19 26 2	28 9 16 23	30 6 13	20 27 6	30 13 20 27	31 ,3 ,10 ,17 ,24 ,1	32 _8 _15 _22 _2	33 9 5 12
SHT TU	NNEL SOUTHBOUND																
6939	ShtRtSb-Proc & Manuf. Tunnel Lgt sys	180	20JAN06A	04JUL06	0	90	90	-68	-90					•			
MAJOR																	
SHT TU	NNEL NORTHBOUND																
7629	ShtRtNb-Del. TVS in Tunnel	72	20JAN06A	05SEP06	60		72	-46	-84								
SHT TU	NNEL SOUTH BOUND		I		1	1 1	I										
	ShtRtSb-Del. HV/LV main & submain dist. sys	72	20FEB06A	18JUL06	50		60	-32	-60								
INTERF	ACE DATES																
SHT TU	NNEL NORTHBOUND																
6981	ShtRtNb-E&M Access to SB OHVD	0	20JAN06A		100		0		25		\diamond		Û				
6980	ShtRtNb-E&M Access to SB Tunnel (under OHVD)	0	10FEB06A		100		0		14			•	Ŷ				
6982	ShtRtNb-E&M Access to NB Cable Troughs	0	03APR06*		0		0	-11	-30				Û		•		
6983	ShtRtNb-E&M Access to SB Cross Passages	0	03APR06*		0		0	-11	-30				Û		•		
6984	ShtRtNb-E&M Access to SB Niches	0	03APR06*		0		0	28	-30				Û	¢	\diamond		
SHT TU		I	I		I	1 1		1 1									
	ShtRtSb-E&M Access to SB Tunnel (under OHVD)	0	03APR06*		0		0	-8	-30				Û		•		
6928	ShtRtSb-E&M Access to SB OHVD	0	03APR06*		0		0	-2	-30				Û		•		
6929	ShtRtSb-E&M Access to SB Cable Troughs	0	03APR06*		0		0	-11	-30	-			Û		•		
6930	ShtRtSb-E&M Access to SB Cross Passages	0	03APR06*		0		0	-8	-30	-			Û		•		
6931	ShtRtSb-E&M Access to SB Niches	0	03APR06*		0		0	28	-30				Û	\$	\diamond		
CONST	RUCTION		I								1						
	RTHBOUND TUNNEL										1						
FS WOF																	
	HYDRANT & HOSE REEL										1						
	ShtRtNb-Wet dist. (HR/Hyd) 1st fix	36	03APR06	20MAY06	0		36	-11	-30								
7017	ShtRtNb-Wet dist. (HR/Hyd) 2nd fix	36	22MAY06	04JUL06	0		36	56	-30)						
ELECTR		1		I	1	1 1		· · ·									
	JBMAIN DISTRIBUTION																
6988	ShtRtNb-HV, LV main & submain dist. 1st fix	30	03APR06	13MAY06	0		30	-2	-30								

							-		., .	DEC		JAN	FE	R	MAR	APR	MAY	JUN
Act.	Activity Description	Orig Dur		Early Finish		DWP % Compl.	Rem	I otal	Variance	07		00)	30	31	32	33
	I	Dui	Start	FILISI	Compi.	Compi.	Dui	Fluar	any rins	27 12 19 26	29	16 23	30 6 1:	3 20	27 6 13 20 2	27 ₁ 3 ₁ 10 17 24	1 8 15	22 29 5 12
	ShtRtNb-Final circuit 1st fix	48	03APR06	05JUN06	0		48	-2	-30									
	EXTERNAL LIGHTING				· · ·													
6994	ShtRtNb-Tunnel Lgt sys 1st fix	60	03APR06	19JUN06	0		60	-11	-30									
												L		-				
ELV WO																		
7001	ShtRtNb-CMCS, other ELV 1st fix & TCSS Enabling	60	28APR06	11JUL06	0		60	-11	-30									
	VENTILATION SYSTEM											<u> </u>		-				
	/ENTILATION & SMOKE EXTRACTION																	
	ShtRtNb-TVS Tunnel vent. & SE 1st fix	48	10FEB06A	05JUN06	35		48	8	-30									
	IC SYSTEM																	
7007	ShtRtNb-TVS pneumatic 1st fix	36	03APR06	20MAY06	0		36	56	-30									
														_				
SHT TU	NNEL SOUTHBOUND																	
FS WOR																		
	YDRANT & HOSE REEL							1										
6963	ShtRtSb-Wet dist. (HR/Hyd) 1st fix	36	03APR06	20MAY06	0		36	-11	-30									
0004	ShtRtSb-Wet dist. (HR/Hyd) 2nd fix	36	22MAY06	04JUL06	0		20	22	20								Г	
0904		30	22IVIA 100	04JUL06	0		36	22	-30									
FLECTR		1	I		1 1			1										
	JBMAIN DISTRIBUTION																	
6935	ShtRtSb-HV, LV main & submain dist. 1st fix	30	03APR06	13MAY06	0		30	-2	-30		(
																-		
FINAL CIR		1				[-	1	-									
7472	ShtRtSb-Final circuit 1st fix	48	03APR06	05JUN06	0		48	-2	-30									
	 EXTERNAL TUNNEL													-				
	ShtRtSb-Tunnel Lgt sys 1st fix	60	03APR06	19JUN06	0		60	-8	-30									
ELV WO	RKS				·													
6948	ShtRtSb-CMCS, Other ELV 1st fix & TCSS Enabling	60	28APR06	11JUL06	0		60	-11	-30)						
TUNNEL	VENTILATION SYSTEM																	
	/ENTILATION & SMOKE EXTRACTION	_																
6951	ShtRtSb-TVS Tunnel vent. & SE 1st fix	48	03APR06	05JUN06	0		48	8	-30									
											_			_				
	TIC SYSTEM ShtRtSb-TVS pneumatic 1st fix	36	03APR06	20MAY06	0		36	56	-30									ן ן
0954		50	00/11/00				50	50	-30									
STATU	TORY INSPECTIONS							1										
	SPECTIONS																	
-	SHECTIONS ShtRt-All FS design approved by FSD (MHJV)	0	13MAR06		0	0	0	-11	-30			\						
09/3	SHUKEAH FO GESIGH APPLOVED BY FOD (IVINJV)	0	ISINIARUO		U	U	0	- 1 1	-30			1	Û		▼			
											1						1	

Act. Activity Original Early builty Early builty Early builty Early builty Compl. Compl. Dur Float arty Fining- 27 is 28 a 2 a 10 ar 20 a 0 a 11 ar 20 ar a 11 ar 20	32 1 8 15 22 29 5 1	30	10				DEC	Variance	Total	Rom		%	Early	Farly	Orig	Act. Activity	
F5D INSPECTIONS 6974 ShtR-Issue, endorse & submit FSI 314 to FSD 6 27MAR06 01APR06 0 6 11 -30 SHT NORTH PORTAL BUILDING SUBMITTALS & APPROVALS ABWF & BUILDER'S WORKS 2001 SHT NPE - Approve door & window details 24 03JUN05A 04MAR06 0 100 10 -141 2005 SHT NPE - Approve balustrade & metal works 24 13DEC05A 13FEB06A 100 100 0 -124 EXEMPTION SHITTALS 8299 ShtNpBldg-Sub.MYAC MCC, power & control sys 54 02JUL04A 27APR06 95 100 54 -186 -297 8299 ShtNpBldg-Sub.MYAC MCC, power & control sys 54 05JUL04A 24FEB06 99 100 5 26 -124 8298 ShtNpBldg-Sub.MYAC / MCC / TVF pneumatic sys 54 14AUG04A 20APR06 95 100 48 -100 -119 8292 ShtNpBldg-Sub.of CMCS & ELV sys 78				30 6 13	3 6 23 3	2 9 1	27 S12 19 20	arly Finis	Float	Dur	Compl.		-				
6974 ShtRt:Issue, endorse & submit FSI 314 to FSD 6 27MAR06 0 6 11 -30 SHT NORTH PORTAL BUILDING SUBMITTALS & APPROVALS ABWF & BUILDER'S WORKS 2001 SHT NPB: Approve don's window details 24 03JUN05A 04MAR06 0 100 12 10 -141 2008 SHT NPB: Approve balustrade & metal works 24 13DEC05A 13FEB06A 100 10 12 10 -141 2008 SHT NPB: Approve balustrade & metal works 24 13DEC05A 13FEB06A 100 10 0 -124 B207 ShtNpBidg-Sub.NVAC MCC, Dower & control sys 54 02JUL04A 27APR06 95 100 5 -26 -122 8297 ShtNpBidg-Sub.NVAC MCC, TVF pneumatic sys 54 05AUG04A 24FEB06 99 100 5 -26 -122 8298 ShtNpBidg-Sub.NVAC MCC/ TVF pneumatic sys 54 05AUG04A 24FEB06 99 100 5 -62 -164 82928 ShtNpBidg-Sub.of CMCS & ELV sys									I	1			I	I	I	•	FSD IN
SUBMITTALS & APPROVALS ABWF & BUILDER'S WORKS Control Contro Control Control								-30	-11	6		0	01APR06	27MAR06	6		-
ABWF & BUILDER'S WORKS 2401 03JUN05A 04MAR06 0 100 12 10 141 2009 SHT NPB - Approve balustrade & metal works 24 13DEC05A 13FEB06A 100 100 0 -124 2009 SHT NPB - Approve balustrade & metal works 24 13DEC05A 13FEB06A 100 100 0 -124 EAM EOPT. / MTRL. SUBMITTALS								•				<u> </u>				T NORTH PORTAL BUILDING	SHT N
2001 SHT NPB - Approve door & window details 24 03JUN05A 04MAR06 0 100 12 10 -144 2009 SHT NPB - Approve balustrade & metal works 24 13DEC05A 13FEB06A 100 100 0 -124 E8ME COPT. / MTRL. SUBMITTALS 8297 ShtNpBidg-Sub.MVAC MCC, power & control sys 54 02JUL04A 27APR06 95 100 54 -186 -297 8299 ShtNpBidg-Sub.FS AFA & FM200 sys 54 05JUL04A 24FEB06 99 100 5 26 -122 8298 ShtNpBidg-Sub.FS wet sys 54 05AUG04A 24FEB06 99 100 5 26 -122 8298 ShtNpBidg-Sub.FS wet sys 54 05AUG04A 24FEB06 99 100 5 26 -122 8298 ShtNpBidg-Sub.MVAC / TVF pneumatic sys 54 14AUG04A 20APR06 95 100 48 -100 -119 8298 ShtNpBidg-Sub.Of CMCS & ELV sys 78 26AUG04A 06MAY06 98 100 60 -90 -231 8111																BMITTALS & APPROVALS	SUBMI
2009 SHT NPB - Approve balustrade & metal works 24 13DEC05A 13FEB06A 100 100 0 -124 E&M EOPT. / MTRL. SUBMITTALS 54 02JUL04A 27APR06 95 100 54 -186 -297 8297 ShtNpBldg-Sub.MVAC MCC, power & control sys 54 02JUL04A 27APR06 95 100 54 -186 -297 8298 ShtNpBldg-Sub.FS AFA & FM200 sys 54 05AUG04A 24FEB06 99 100 5 -26 -122 8296 ShtNpBldg-Sub.MVAC / TVF pneumatic sys 54 05AUG04A 24FEB06 99 100 5 -62 -164 8296 ShtNpBldg-Sub.MVAC / TVF pneumatic sys 74 26AUG04A 20APR06 95 100 48 100 -119 8296 ShtNpBldg-Sub.Of CMCS & ELV sys 78 26AUG04A 06MAY06 98 100 60 -90 -231 8291 ShtNpBldg-Sub.Of CMCS & ELV sys 18 18AUG04A 11MAR06 80 100 18 -122 -183 73777 ShtNpBldg-App. FS AFA & FM200 sys <td></td> <td>WF & BUILDER'S WORKS</td> <td>ABWF 8</td>																WF & BUILDER'S WORKS	ABWF 8
EAM CONTR C								-141	10	12	100	0	04MAR06	03JUN05A	24	2001 SHT NPB - Approve door & window details	2001
8297 ShtNpBldg-Sub.MVAC MCC, power & control sys 54 02JUL04A 27APR06 95 100 54 -186 -297 8299 ShtNpBldg-Sub.FS AFA & FM200 sys 54 05JUL04A 24FEB06 99 100 5 -26 -122 8298 ShtNpBldg-Sub.FS wet sys 54 05AUG04A 24FEB06 99 100 5 -62 -164 8296 ShtNpBldg-Sub.MVAC / TVF pneumatic sys 54 14AUG04A 20APR06 95 100 48 -100 -119 8292 ShtNpBldg-Sub.of CMCS & ELV sys 78 26AUG04A 06MAY06 98 100 60 -90 -231 8511 ShtSpBldg-App. building related luminaires 18 18AUG04A 11MAR06 90 100 18 -122 -183 7377 ShtNpBldg-App. FS wet sys 18 02SEP04A 11MAR06 85 100 18 -62 -159 7427 ShtNpBldg-App. FS AFA & FM200 sys 18 02SEP04A 11MAR06 88 100 18 -90 -171 -171 -171 -171								-124		0	100	100	13FEB06A	13DEC05A	24	2009 SHT NPB - Approve balustrade & metal works	2009
8299 ShtNpBldg-Sub.FS AFA & FM200 sys 54 05JUL04A 24FEB06 99 100 5 -26 -122 8298 ShtNpBldg-Sub.FS wet sys 54 05AUG04A 24FEB06 99 100 5 -62 -164 8298 ShtNpBldg-Sub.MVAC / TVF pneumatic sys 54 14AUG04A 20APR06 95 100 48 -100 -119 8292 ShtNpBldg-Sub.MVAC / TVF pneumatic sys 78 26AUG04A 06MAY06 98 100 60 -90 -231 8511 ShtSpBldg-App. building related luminaires 18 18AUG04A 11MAR06 90 100 18 -122 -183 7377 ShtNpBldg-App. FS wet sys 18 02SEP04A 11MAR06 80 100 18 -62 -159 7427 ShtNpBldg-App. FS AFA & FM200 sys 18 02SEP04A 11MAR06 88 100 18 -62 -159 7307 ShtNpBldg-App. FS AFA & FM200 sys 18 02SEP04A 11MAR06 88 100 18 -90 -171 7307 ShtNpBldg-App. MVA																M EQPT. / MTRL. SUBMITTALS	E&M EC
Image: Normal Stress in the stress interpretation of the stress interpre	1							-297	-186	54	100	95	27APR06	02JUL04A	54	8297 ShtNpBldg-Sub.MVAC MCC, power & control sys	8297
8296 ShtNpBldg-Sub.MVAC / TVF pneumatic sys 54 14AUG04A 20APR06 95 100 48 -100 -119 8292 ShtNpBldg-Sub.of CMCS & ELV sys 78 26AUG04A 06MAY06 98 100 60 -90 -231 E&M EQPT. / MTRL. APPROVALS 8511 ShtSpBldg-App. building related luminaires 18 1800G04A 11MAR06 90 100 18 -122 -183 7377 ShtNpBldg-App. FS wet sys 18 02SEP04A 11MAR06 80 100 18 -62 -159 7427 ShtNpBldg-App. FS AFA & FM200 sys 18 14SEP04A 11MAR06 85 100 18 -26 -117 7307 ShtNpBldg-App. of CMCS & ELV sys 18 20SEP04A 11MAR06 88 100 18 -90 -171 7338 ShtNpBldg-App. MVAC mech.vent. sys 18 23SEP04A 11MAR06 80 100 18 -143 -165								-122	-26	5	100	99	24FEB06	05JUL04A	54	8299 ShtNpBldg-Sub.FS AFA & FM200 sys	8299
8292 ShtNpBldg-Sub.of CMCS & ELV sys 78 26AUG04A 06MAY06 98 100 60 -90 -231 E&M EQPT. / MTRL. APPROVALS 8511 ShtSpBldg-App. building related luminaires 18 18AUG04A 11MAR06 90 100 18 -122 -183 7377 ShtNpBldg-App. FS wet sys 18 02SEP04A 11MAR06 80 100 18 -62 -159 7427 ShtNpBldg-App. FS AFA & FM200 sys 18 14SEP04A 11MAR06 85 100 18 -26 -117 7307 ShtNpBldg-App. of CMCS & ELV sys 18 20SEP04A 11MAR06 88 100 18 -90 -171 7338 ShtNpBldg-App. MVAC mech.vent. sys 18 23SEP04A 11MAR06 80 100 18 -143 -165								-164	-62	5	100	99	24FEB06	05AUG04A	54	8298 ShtNpBldg-Sub.FS wet sys	8298
E&M EQPT. / MTRL. APPROVALS 18 18 18 18 100 18 -122 -183 7377 ShtNpBldg-App. FS wet sys 18 02SEP04A 11MAR06 80 100 18 -62 -159 7427 ShtNpBldg-App. of CMCS & FM200 sys 18 14SEP04A 11MAR06 85 100 18 -26 -117 7307 ShtNpBldg-App. of CMCS & ELV sys 18 20SEP04A 11MAR06 88 100 18 -26 -117 7338 ShtNpBldg-App. MVAC mech.vent. sys 18 23SEP04A 11MAR06 80 100 18 -143 -165								-119	-100	48	100	95	20APR06	14AUG04A	54	8296 ShtNpBldg-Sub.MVAC / TVF pneumatic sys	8296
8511 ShtSpBldg-App. building related luminaires 18 18AUG04A 11MAR06 90 100 18 -122 -183 7377 ShtNpBldg-App. FS wet sys 18 02SEP04A 11MAR06 80 100 18 -62 -159 7427 ShtNpBldg-App. FS AFA & FM200 sys 18 14SEP04A 11MAR06 85 100 18 -26 -117 7307 ShtNpBldg-App. of CMCS & ELV sys 18 20SEP04A 11MAR06 88 100 18 -90 -171 7338 ShtNpBldg-App. MVAC mech.vent. sys 18 23SEP04A 11MAR06 80 100 18 -143 -165								-231	-90	60	100	98	06MAY06	26AUG04A	78	8292 ShtNpBldg-Sub.of CMCS & ELV sys	8292
7377 ShtNpBldg-App. FS wet sys 18 02SEP04A 11MAR06 80 100 18 -62 -159 7427 ShtNpBldg-App. FS AFA & FM200 sys 18 14SEP04A 11MAR06 85 100 18 -26 -117 7307 ShtNpBldg-App. of CMCS & ELV sys 18 20SEP04A 11MAR06 88 100 18 -90 -171 7338 ShtNpBldg-App. MVAC mech.vent. sys 18 23SEP04A 11MAR06 80 100 18 -143 -165																M EQPT. / MTRL. APPROVALS	E&M EC
7427 ShtNpBldg-App. FS AFA & FM200 sys 18 14SEP04A 11MAR06 85 100 18 -26 -117 7307 ShtNpBldg-App. of CMCS & ELV sys 18 20SEP04A 11MAR06 88 100 18 -90 -171 7338 ShtNpBldg-App. MVAC mech.vent. sys 18 23SEP04A 11MAR06 80 100 18 -143 -165								-183	-122	18	100	90	11MAR06	18AUG04A	18	8511 ShtSpBldg-App. building related luminaires	8511
7307 ShtNpBldg-App. of CMCS & ELV sys 18 20SEP04A 11MAR06 88 100 18 -90 -171 7338 ShtNpBldg-App. MVAC mech.vent. sys 18 23SEP04A 11MAR06 80 100 18 -90 -171								-159	-62	18	100	80	11MAR06	02SEP04A	18	7377 ShtNpBldg-App. FS wet sys	7377
7338 ShtNpBldg-App. MVAC mech.vent. sys 18 23SEP04A 11MAR06 80 100 18 -143 -165								-117	-26	18	100	85	11MAR06	14SEP04A	18	7427 ShtNpBldg-App. FS AFA & FM200 sys	7427
								-171	-90	18	100	88	11MAR06	20SEP04A	18	7307 ShtNpBldg-App. of CMCS & ELV sys	7307
7431 ShtNpBidg-App. PD cleans. & flush water sys 18 04NOV04A 11MAR06 85 100 18 -62 -177								-165	-143	18	100	80	11MAR06	23SEP04A	18	7338 ShtNpBldg-App. MVAC mech.vent. sys	7338
								-177	-62	18	100	85	11MAR06	04NOV04A	18	7431 ShtNpBldg-App. PD cleans. & flush water sys	7431
7369 ShtNpBldg-App. MVAC MCC, power & control sys 18 12NOV04A 11MAR06 80 100 18 -186 -243								-243	-186	18	100	80	11MAR06	12NOV04A	18	7369 ShtNpBldg-App. MVAC MCC, power & control sys	7369
7362 ShtNpBldg-App. MVAC / TVF pneumatic sys 18 07MAR05A 18MAY06 80 18 -104 -123								-123	-104	18		80	18MAY06	07MAR05A	18	7362 ShtNpBldg-App. MVAC / TVF pneumatic sys	7362
PROCUREMENT - MATERIAL																DCUREMENT - MATERIAL	PROCU
ABWF WORKS																WF WORKS	ABWF V
2016 SHT NPB - Procure doors & windows 120 12JAN05A 04MAR06 50 90 12 10 -21								-21	10	12	90	50	04MAR06	12JAN05A	120	2016 SHT NPB - Procure doors & windows	2016
7269 ShtNpBldg-Proc & Manuf. LV power dist. equip't 180 20MAR05A 12JUN06 40 100 90 -92 -111					1	<u> </u> ,		-111	-92	90	100	40	12JUN06	20MAR05A	180	7269 ShtNpBldg-Proc & Manuf. LV power dist. equip't	7269
7263 ShtNpBldg-Proc. & Manuf. of HV dist. equip't 180 25MAR05A 06MAY06 90 100 60 -58 -81					1	<u> </u>		-81	-58	60	100	90	06MAY06	25MAR05A	180	7263 ShtNpBldg-Proc. & Manuf. of HV dist. equip't	7263

Act.	Activity	Orig Early	Early	%	DWP %	Rem	Total	Variance	DEC 27	JAN	FEB		IAR	APR	MAY	JUN
ID		Dur Start	Finish		Compl.					28 _2 _9 _16 _23	29 30 6 13	20 27 6 1	30 3 ₁ 20 ₁ 27	31 3 10 17 24	32 1 /8 /15 /22 /2	33 9 5 12
ABWF V			Γ	1	1	I										
7308	ShtNpBldg-Proc. & Manuf. of CMCS & ELV sys	180 25MAR05A	10AUG06	20	80	140	-90	-113								
7370	ShtNpBldg-Proc & Manuf. MCC, power & control sys	180 25MAR05A	02SEP06	10	100	160	-186	-205								
7428	ShtNpBldg-Proc & Manuf. FS AFA & FM200 sys	120 25MAR05A	12JUN06	40	70	90	-26	-69					•			
7378	ShtNpBldg-Proc & Manuf. FS wet sys	120 06JUN05A	18JUL06	30	100	120	-62	-141								
7356	ShtNpBldg-Proc & Manuf. TVF,Ductwks&Cont'l sys	180 09JUN05A	18JUL06	40	90	120	-94	-113								
7432	ShtNpBldg-Proc & Manuf. Cleans & flush water sys	120 30SEP05A	04JUL06	10	100	90	-62	-147								
8512	ShtSpBldg-Proc & Manf bldg related luminaires	180 23NOV05A	23SEP06	90	80	160	-122	-163								
7324	ShtNpBldg-Proc & Manuf. MVAC Package AC Units	120 11JAN06A	29AUG06	10	60	120	-70	-123								
7339	ShtNpBldg-Proc & Manuf. MVAC mech.vent. sys	120 13MAR06	08AUG06	0	100	120	-143	-165								
7363	ShtNpBldg-Proc & Manuf. MVAC / TVF pneumatic sys	120 19MAY06	10OCT06	0		120	-104	-123								
MAJOR	EQUIPMENT DELIVERY				1											
SHT NO	RTH PORTAL BUILDING															
7270	ShtNpBldg-Del. LV power dist. equip't to 1/F	48 22DEC05A	08AUG06	50		48	-92	-111								
7264	ShtNpBldg-Del. HV power dist. equip't to 2/F	48 08MAY06	04JUL06	0		48	-58	-81								
INTERF	ACE DATES															
SHT NO	RTH PORTAL BUILDING															
	Int M/S - SHT N Ptal Bldg - E&M access Plenum	0	09MAR06	0	0	0	10	-9				Û 🔶				
1867	Int M/S - SHT N Ptal Bdng - E&M access Roof	0	09MAR06	0	0	0	22	-9				1 \diamond				
1862	Int M/S - SHT Nth Ptal Bldg-E&M access Ext.Elev	0	30MAR06	0	0	0	10	-21				Û	•			
7255	ShtNpBldg-E&M access to 3/F	0 03APR06*		0		0	-26	-45	٢		Ŷ			•		
7256	ShtNpBldg-E&M access to 2/F	0 03APR06*		0		0	-26	-45			Ŷ			•		
7257	ShtNpBldg-E&M access to 1/F	0 03APR06*		0		0	-26	-45		<u> </u>	Ŷ			•		
7258	ShtNpBldg-E&M access to G/F	0 03APR06*		0		0	-20	-45	L		Ŷ			•		
7259	ShtNpBldg-E&M access to Plenum	0 03APR06*		0		0	-10	-29				Û		•		
7260	ShtNpBldg-E&M access to Roof (Exhaust Shaft)	0 03APR06*		0		0	2	-29				Û		•		
					Chast F											

A = 4		Onia Easta	E ault i	0/		Deres	Tatal) (DEC	JAN	FEB	MAR	APR	MAY	JUN
Act.	Activity Description	Orig Early Dur Start	Early Finish	% Compl	Compl	Dur	Float	Variance	27	28	29	30	27 3 10 17 24	32	33
•	RTH PORTAL BUILDING	Buil		Compi	- Compi.	Dui	linout		12 19 26		30 ₁ 0 ₁ 13	20 27 6 13 20	27 3 10 17 24	I ₁ 8 ₁ 15 22 ∦	29 p 12
	ShtNpBldg-E&M access to External Elevation	0 03APR06*		0		0	8	-23				Û	•		
CONST	RUCTION	1 I													
ARCHIT	ECTURAL & BUILDER'S WORKS										Ν				
BUILDE	R'S WORK														
1821	SHT Nth PBldg - Wet Trades GL	16 20FEB06	09MAR06	0	0	16	16	-9							
1823	SHT Nth PBldg - Wet Trades 1FL	16 20FEB06	09MAR06	0	0	16	10	-9							
1869	SHT Nth PBldg - Wet Trades 2FL	16 20FEB06	09MAR06	0	0	16	10	-9							
1870	SHT Nth PBldg - Wet Trades 4FL	16 20FEB06	09MAR06	0	0	16	10	-9							
1871	SHT Nth PBldg - Wet Trades 3FL	16 20FEB06	09MAR06	0	0	16	10	-9							
1872	SHT Nth PBldg - Wet Trades 5FL	16 20FEB06	09MAR06	0	0	16	22	-9							
1812	SHT Nth PBldg - Ext. Doors & Windows	33 06MAR06	13APR06	0	0	33	10	-21							
E&M - G	ENERAL														
MVAC W	/ORKS														
	VER & CONTROL	1 1	Т	1			-	1							
7372	ShtNpBldg-MCC, power & control 1st fix	36 03APR06	20MAY06	0		36	-26	-45							
FS WOR															
	REQUIPMENT				1										
	ShtNpBldg-Hydrant Pump & Tank set 1st fix	36 03APR06	20MAY06	0		36	34	-45							
	HYDRANT + HOSE REEL					0.1	0.1	45							
/385	ShtNpBldg-ENT Tunnel (Hyd/HR) pumps set 1st fix	24 08MAY06	05JUN06	0		24	34	-45							
	RICAL WORKS														
	R DISTRIBUTION MAJOR EQPT.			1	1	1	1	1							
	ShtNpBldg-HV power dist. sys 1st fix	36 03APR06	20MAY06	0		36	-26	-45							
	R DISTRIBUTION MAJOR EQPT.		001443/00			0.1	00	45							
	ShtNpBldg-LV power dist. sys 1st fix	24 21APR06	20MAY06	0		24	-26	-45							
	G & LIGHTNING PROTECTION		40 11 11 100	2		51	-	00							
	ShtNpBldg-Earth'g & lightn'g protection 2nd fix	54 03APR06	12JUN06	0		54	8	-23							
	NG & DRAINAGE WORKS					1									
7434	ShtNpBldg-Cleansing Water Pumps & Tanks 1st fix	18 03APR06	27APR06	0		18	40	-45							

Act.	Activity	Orig	Early	Early	%	DWP %	Rem	Total	Variance	DEC	;	JAN	FEB 29	MAR 30		APR 31	MAY 32	JUN
ID	Description	Dur	Start	Finish	Compl.	Compl.	Dur	Float	arly Finis	27 12 ₁ 19	26 2	28 9 16 23 3	29 10 6 13	20 27 6 13	20 27 3 1			33 9 5 12
TUNNE	L VENTILATION SYSTEM																	
7358	ShtNpBldg-AC/TVF TVF, Duct & Control 1st fix	48	03APR06	05JUN06	0		48	-10	-29			>						
E&M G	/F			Į	1	1												
MVAC W											Χ							
	NT./AIR CONDITIONING					1												
7344	ShtNpBldg G/F-AC(1st Fix) mech.vent.	24	03APR06	06MAY06	0		24	-20	-45									
	RICAL WORKS																	
	JB-MAIN DISTRIBUTUION																	
7276	ShtNpBldg G/F-ES(1st Fix) Main & Sub-main dist.	42	08MAY06	26JUN06	0		42	-20	-45		/						•	
FINAL CIR																		
7289	ShtNpBldg G/F-ES(1st Fix) Final Circuit dist.	30	08MAY06	12JUN06	0		30	-20	-45	(-		
E&M 1/F	=																	
MVAC W	VORKS																	
MECH.VE	NT./AIR CONDITIONING																	
7343	ShtNpBldg 1F-AC(1st Fix) mech.vent.	42	03APR06	27MAY06	0		42	-26	-45									
ELECTR	RICAL WORKS			,														
MAIN & SU	JB-MAIN DISTRIBUTUION																	
7279	ShtNpBldg 1F-ES(1st Fix) Main & Sub-main dist.	24	29MAY06	26JUN06	0		24	-26	-45								. •	
FINAL CIR		-	[1	1	1											_	
7292	ShtNpBldg 1F-ES(1st Fix) Final Circuit dist.	30	29MAY06	04JUL06	0		30	-26	-45									
E&M 2/F	=																	
MVAC W	VORKS																	
	NT./AIR CONDITIONING			L	-1													
7342	ShtNpBldg 2F-AC(1st Fix) mech.vent.	36	03APR06	20MAY06	0		36	-26	-45						-			
ELECTR	NICAL WORKS										Τ							
	UB-MAIN DISTRIBUTUION			[- 1													
7278	ShtNpBldg 2F-ES(1st Fix) Main & Sub-main dist.	30	15MAY06	19JUN06	0		30	-26	-45					_				
FINAL CIR								· · · ·										
7291	ShtNpBldg 2F-ES(1st Fix) Final Circuit dist.	54	15MAY06	18JUL06	0		54	-26	-45					_				
E&M 3/F				·				. 1										
MVAC W	VORKS																	
1	NT./AIR CONDITIONING																	
7341	ShtNpBldg 3F-AC(1st Fix) mech.vent.	30	03APR06	13MAY06	0		30	-26	-45									
										-								

Act.	Activity	Orig	Early	Early	%	DWP %	Rem	Total	Variance	DEC	;	JAN	FEB	MAR	APR	MAY	JUN
ID	Description	Dur		Finish		Compl.	Dur	Float	arly Finis	27 12 19	26 2	28 9 16 23	29 30 6 13	30 20 27 6 13 20 27 6	31 3 10 17 24 1	32 8 15 22	33 29 5 12
ELECTR	ICAL WORKS																
						T											
7277	ShtNpBldg 3F-ES(1st Fix) Main & Sub-main dist.	24	04MAY06	02JUN06	0		24	-26	-45	- N							-
FINAL CIR	CUIT	1	I	I	1	1	1	1 1									
7290	ShtNpBldg 3F-ES(1st Fix) Final Circuit dist.	38	04MAY06	19JUN06	0		38	-26	-45								
											$\mathbf{+}$						
E&M RC	ICAL WORKS																
FINAL CIR																	
	ShtNpBldg R/F-ES(1st Fix) Final Circuit dist.	36	03APR06	20MAY06	0		36	2	-29								
7293	ShtNpBldg R/F-ES(2nd Fix) Final Circuit dist.	30	22MAY06	26JUN06	0		30	2	-29								
STATU	TORY INSPECTIONS																
FSD INS	PECTIONS																
7455	ShtNpBldg-All FS design approved by FSD (MHJV)	0	13MAR06		0	100	0	34	-45	<		n		\diamond			
7456	ShtNpBldg-Issue, endorse & submit FSI 314 to FSD	6	27MAR06	01APR06	0		6	34	-45		V	ŵ					
					-												
SHT RC	ENCLOSURE & T3 UNDERPASS																
CONTR	ACT DEFINED DATES & SECTIONS																
ACS_J6	Access to Portion - J6 (SH-R9 Slip Rd.Over KCRC)	0	10MAY06		0		0	760	0							\diamondsuit	
ACS_L	Access to Portions - L	0	28MAY06		0		0	24	0							1 (>
SUBMIT	TALS & APPROVALS																
E&M EQ	QPT./ MTRL.SUBMITTALS																
8304	Sht-N.R9-Sub.TVS control sys	54	02JUL04A	27APR06	95	100	54	-86	-197								
8300	Sht-N.R9-Sub.MCC, power & control sys	54	02JUL04A	27APR06	95	100	54	-121	-212								
0309		04	0200L04A		30	100	54	-121	-212								
8305	Sht-N.R9-Sub.FS AFA & Linear sys	54	05JUL04A	24FEB06	99	100	5	-65	-135								
8303	Sht-N.R9-Sub.CMCS & ELV sys	78	26AUG04A	06MAY06	98	100	60	-59	-196								
F&M FC	QP. / MTRL. APPROVALS					1											
	Sht-N.R9-App. Tunnel Lgt sys	18	05AUG04A	11MAR06	80	100	18	-56	-165								
7604	Sht-N.R9-App. LCC, power & control sys	18	18AUG04A	11MAR06	80	100	18	-35	-144								
7517	Sht-N.R9-App. FS AFA & Linear sys	18	14SEP04A	11MAR06	85	100	18	-65	-130								
7494	Sht-N.R9-App. CMCS & ELV sys	18	20SEP04A	11MAR06	88	100	18	-59	-136								

Act.	Activity	Orig	Early	Early	%	DWP %	Rem	Total	Variance	DEC		JAN 28		FEB 29		MAR 30	APF 31	2	M	AY 2	JU
ID	Description	Dur	Start	Finish	Compl.	Compl.	Dur	Float	arly Finis	27 12 19 26	29	16 23	30 6	13 20	27 6	13 20 27	3 10 1	7 24 1		2 5 22 29	9 5
	QP. / MTRL. APPROVALS																				
7505	Sht-N.R9-App. TVS control sys	18	12NOV04A	27APR06	70	100	54	-86	-179												
7612	Sht-N.R9-App. MCC, power & control sys	18	12NOV04A	11MAR06	80	100	18	-121	-158												
PROCU	REMENT - MATERIAL																				
SHT RC	FULL ENCLOSURE / T3 UNDERPASS																				
7482	Sht-N.R9-Proc & Manuf. ES Main & submain dist.	180	20MAR05A	12JUN06	40	80	90	-29	-48	>											
7495	Sht-N.R9-Proc & Manuf. CMCS & ELV sys	180	25MAR05A	10AUG06	20	70	140	-59	-78												
7518	Sht-N.R9-Proc & Manuf. FS AFA & Linear sys	120	25MAR05A	04JUL06	15	80	108	-65	-100	-					-						
7613	Sht-N.R9-Proc & Manuf. MCC, power & control sys	180	25MAR05A	30SEP06	10	70	180	-125	-144								↓ ↓				
7506	Sht-N.R9-Proc & Manuf. TVS control sys	180	25MAY05A	02SEP06	10	70	160	-86	-105												
7530	Sht-N.R9-Proc & Manuf. TVF, Ductwks & Cont'l sys	180	09JUN05A	18JUL06	40	80	120	-68	-87												<u> </u>
7488	Sht-N.R9-Proc & Manuf. Tunnel Lgt sys	180	20JAN06A	04JUL06	0	80	90	-56	-75												
7605	Sht-N.R9-Proc & Manuf. LCC, power & control sys	180	20JAN06A	04JUL06	0	80	90	-35	-54												
NTERF	ACE DATES																				
SHT RC	FULL ENCLOSURE / T3 UNDERPASS																				
7477	Sht-N.R9-E&M Access to Encl from SHT(ST89/02)	0	14FEB06A		100		0		37					♦		Û	7				
7478	E&M Access to cable duct & pit (SPB to SP LV/R)	0	03APR06*		0		0	45	26								\diamond		Ŷ		
7479	E&M Access to Cable Troughs from SHT(ST89/02)	0	03APR06*		0		0	15	-4					T		Û	\diamond				
7480	Sht-N.R9-E&M Access to Niches from SHT(ST89/02)	0	03APR06*		0		0	33	-4					X		Û	\diamond				
7503	E&M Access to South Portal LV Sw/R from SHT	0	28APR06*		0		0	27	8									\diamond	Ŷ		
7532	Sht-N.R9-E&M Access to Encl. from T3(ST79/02)	0	29MAY06*		0		0	21	0					ľ						\$	
7533	E&M Access to Cable Troughs from T3(ST79/02)	0	29MAY06*		0		0	21	0											\diamondsuit	
7534	Sht-N.R9-E&M Access to Niches from T3(ST79/02)	0	29MAY06*		0		0	19	0											\diamondsuit	
7535	E&M Access to North Portal LV Sw/R from T3	0	29MAY06*		0		0	19	0											\Diamond_{Π}	

Act.	Activity Orig	Early	Early	%	DWP %	Rem	Total	Variance	DEC 27	JAN	FEB	MAR	APR	MAY	JUN
ID	Description Du		Finish	Compl.	Compl.	Dur	Float	arly Finis	27 12 19 26	28 2 9 16 23 3	29 0 6 13	30 20 27 6 13 20 27	31 3 10 17 24	32 _8 _15 _22 _2	33 29 5 12
CONST	RUCTION WORKS														
SHT RC	FULL ENCLOSURE / T3 UNDERPASS														
KIOSKS															
KIOSK 1			T	1	1	1	1								
2287	Kiosk S1 - Substructure 9	20FEB06	01MAR06	0	0	9	106	62			l				
2290	Kiosk S1 - Steelwork & glazing 12	02MAR06	15MAR06	0	0	12	106	62							
2209	Riosk ST - Steelwork & glazing	UZIVIARUU	TSIMARUO	0	0	12	100	02							-
2293	Weighbridge S1 - Install 18	02MAR06	22MAR06	0	0	18	190	62							
2291	Kiosk S1 - Builders' work 24	16MAR06	13APR06	0	0	24	106	62)	
2200	Weighbridge S1 - Test and commission 30	23MAR06	02MAY06	0	0	20	190	62				Г <u>т</u>		-	
2290	Weighbridge S1 - Test and commission 30	ZJIVIARUO	UZIVIA Y UO	0	0	30	190	62							
8531	Kiosk S1 - Elect Works 24	18APR06	17MAY06	0	0	24	130	62							
					_			_							
8532	Kiosk S1 - MVAC Works 12	18MAY06	01JUN06	0	0	12	130	62							\Box
KIOSK 2	Kiosk S2 - Substructure 9	29MAY06	08JUN06	0		9	52	0						[
2200	Niosk 52 - Substructure 5	23WA 100	00301100	0		3	52								
SWITCH	ROOMS	1	1	1	1	1		'							
	VITCHROOM	1			1										
3720	Sth.Switchroom - Builders Work 12	20FEB06	04MAR06	0	0	12	81	62			[
	VITCHROOM														
	Nth.Switchroom - Builders Work 12	20FEB06	04MAR06	0	0	12	81	62			1	L ₁			
0,00		LOI LDOO	0 111/2 11 100	Ū	Ŭ		0.	02							
MVAC W	ORKS														
	/ER & CONTROL		1	1	1	1	1								
7536	Sht-N.R9-MCC, power & control 1st fix 30	28APR06	05JUN06	0		30	29	10							
FS WOR	KS EQUIPMENT														
	Sht-N.R9-Wet dist. (HR/Hyd) 1st fix 36	03APR06	20MAY06	0		36	15	-4							
7512	Sht-N.R9-Wet dist. (HR/Hyd) 2nd fix 36	29MAY06	11JUL06	0		36	19	0				X I			
	ICAL WORKS														
	IBMAIN DISTRIBUTION Sht-N.R9-LV main & submain dist. 1st fix 60	08APR06	23JUN06	0		60	27	8							
/ 404			23301100	U		00	21	0							
TUNNEL 8	EXTERNAL LIGHTING	1		1											
7490	Sht-N.R9-Tunnel Lgt sys 1st fix 60	03APR06	19JUN06	0		60	15	-4			(
				-		0-	4-								
7607	Sht-N.R9-LCC, power & control 1st fix 36	29MAY06	11JUL06	0		36	19	0							L
		1	1	1	1										- <u> </u>

Act.	Activity Description	Orig Dur	Early Start	Early Finish	% Compl	DWP % Compl.	Rem	Total Float	Variance	DEC 27 12 19 26		JAN 28		FEB 29			MAR 30			.PR 31		MAY 32		JUN 33
	•	Dui	Otart	1 111311	Compi.	Compi.	Dui	rioar	any mis	12 19 26	P	9 16 23	30 6	13	20 j	27 16	13 20	27	3 10	17 <mark>24</mark>	_ 	8 15 22	29 5	12
ELV WC					1 .	1		. I						_ /						-				
7497	Sht-N.R9-CMCS, TCS 1st fix & TCSS Enabling	60	28APR06	11JUL06	0		60	15	-4															
TUNNEL	L VENTILATION SYSTEM																							
TUNNEL	VENTILATION & SMOKE EXTRACTION																							
7500	Sht-N.R9-TVS Tunnel vent. & SE 1st fix	60	20FEB06A	19JUN06	1		60	15	-4												+			
MCC, PO	WER & CONTROL																							
7508	Sht-N.R9-TVS Control & Power 1st fix	30	29MAY06	04JUL06	0		30	19	0															
T&C an	d Inspections																							
SHT RC	Full Enclosure / T3 Underpass																							
STATUT	ORY INSPECTIONS																							
FSD INSP	ECTION																							
7521	Sht-N.R9-All FS design approved by FSD (MHJV)	0	13MAR06		0	0	0	15	-4							Û.	\diamond							
7522	7Sht-N.R9-Issue, endorse & submit FSI 314 to FSD	6	27MAR06	01APR06	0		6	15	-4								-]					

APPENDIX C MONITORING REQUIREMENTS

Type of Monitoring	Parameter	Frequency	Location	Measurement Conditions
Air Quality	1-hour TSP	3 times every 6 days	AM1 (Yew Chung Internation School / PLK Choi Kai Yau School)	 AM1 – Rooftop AM3 – On ground AM4 – Ground floor close to
	24-hour TSP	Once every 6 days	 AM3 ⁽³⁾ (Garden Villa) AM4 (Government Quarters) 	the refuse collection station of Government Quarters
	L _{eq} , L ₉₀ & L ₁₀ at 30 minute intervals during (0700 to 1900 on normal weekdays)	Once per week Once per week	NM1 (Yew Chung Internation	 NM1 – Rooftop (Façade measurement)
Noise	L_{eq} , L_{90} & L_{10} at 5 minute intervals during (1900 to 2300) ⁽¹⁾	(include 3 consecutive 5-min measurements)	School / PLK Choi Kai Yau School)	 NM5 – Ground Floor ⁽²⁾ - (Façade measurement) NM6 – Rooftop of Refuse
	L_{eq} , L_{90} & L_{10} at 5 minute intervals during (2300 to 0700 of next day) ⁽¹⁾	Once per week (include 3 consecutive 5-min measurements)	 NM5 (Villa Carlton) NM6 (Government Quarters) NM7 (Garden Villa) 	 Collection Station (Free field measurement) NM7 – Rooftop (Façade
	L_{eq} , L_{90} & L_{10} at 5 minute intervals during (0700 to 1900 on holidays) ⁽¹⁾	Once per week (include 3 consecutive 5-min measurements)		measurement)

Appendix C - Environmental Impact Monitoring Requirements for Eagle's Nest Tunnel and Associated Works

⁽¹⁾ – Conduct noise monitoring only when construction work is carried out.

⁽²⁾ – The measurement was taken at 2.3 m above ground floor of Villa Carlton, where has a line of sight of the construction site in the opposite.

⁽³⁾ – Station AM3 was relocated from Garden Villa to the nearby slope no. 07SW-D/FR4 and the monitoring was resumed on 14 February 2005.

APPENDIX D ENVIRONMENTAL QUALITY PERFORMANCE (ACTION/LIMIT) LEVELS

Appendix D - Action and Limit Levels (ENT)

1-Hour TSP

Location	Action Level, μg/m ³	Limit Level, µg/m ³
AM1	296	
AM3	350	500
AM4	294	

24-Hour TSP

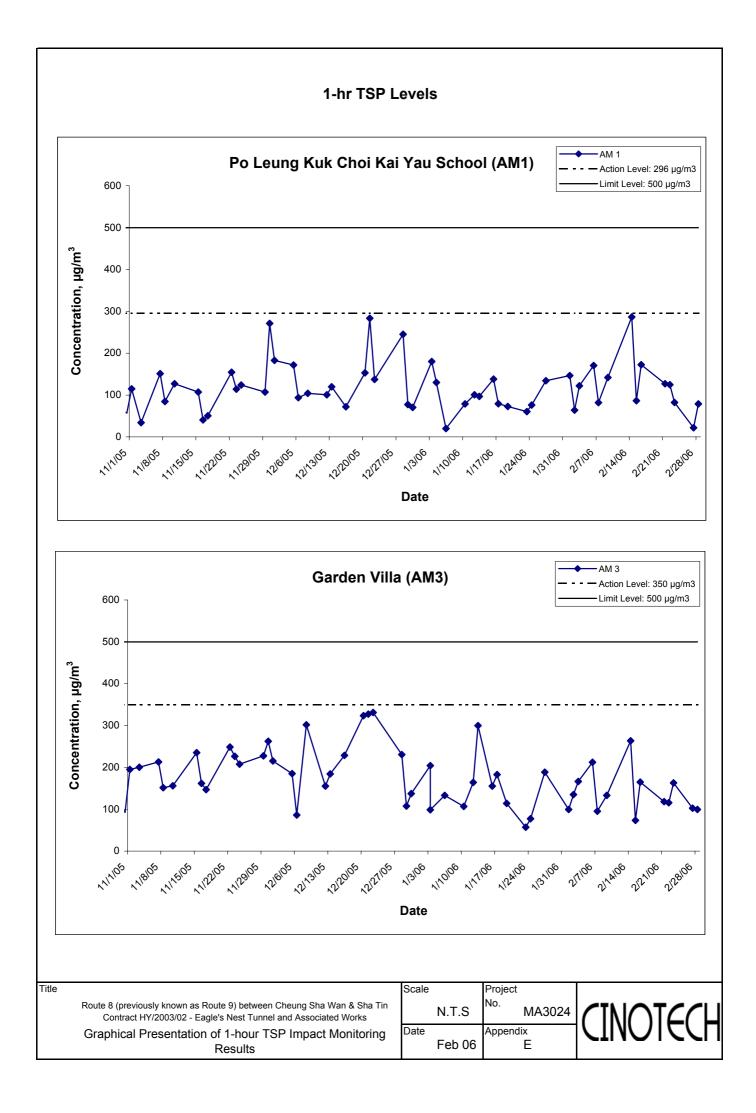
Location	Action Level, µg/m ³	Limit Level, µg/m ³
AM1	168	
AM3	200	260
AM4	170	

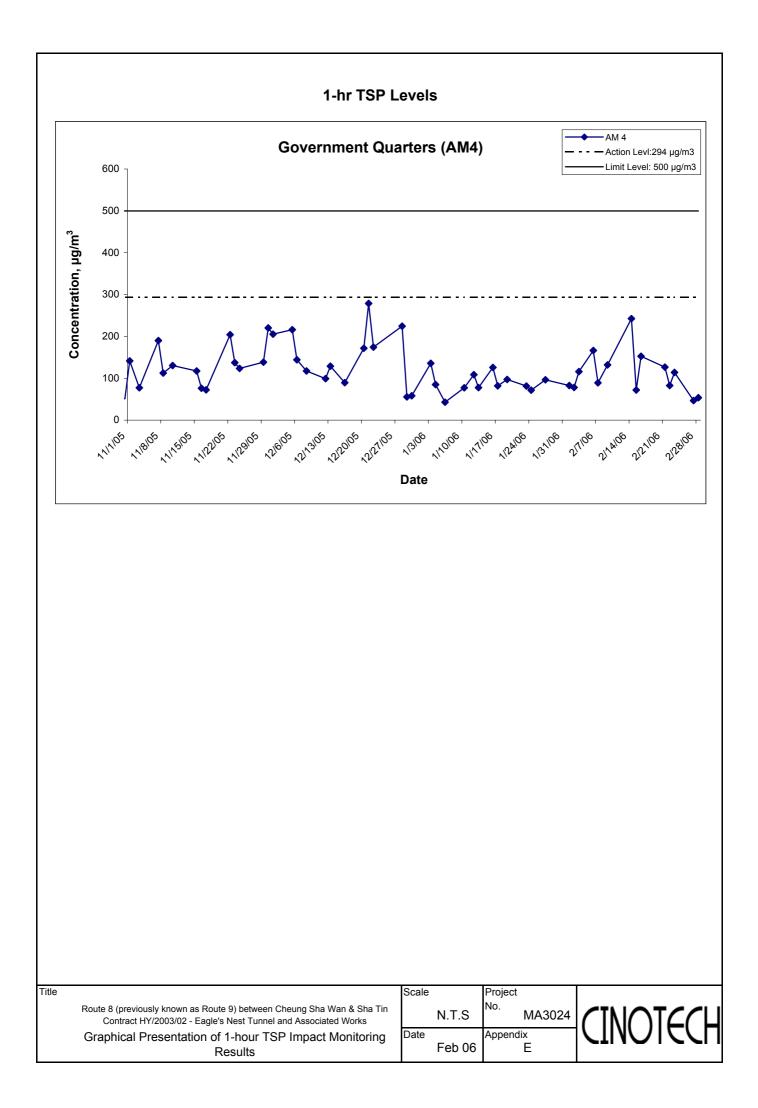
Construction Noise

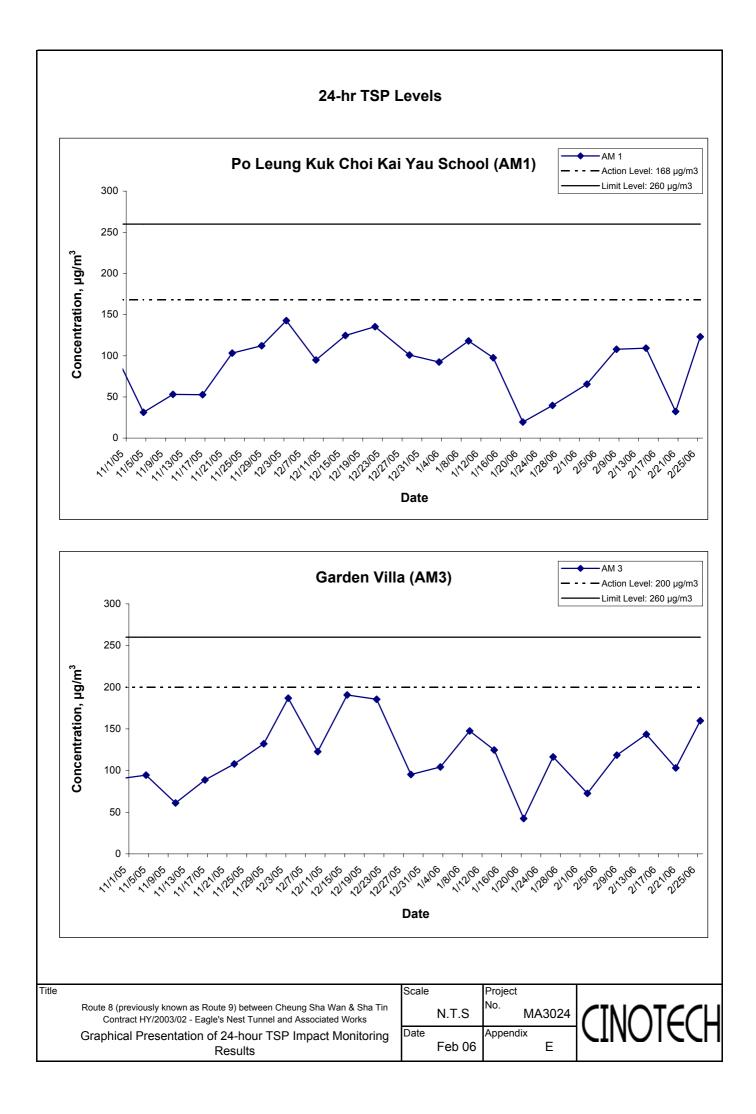
Period	Action Level	Limit Level, dB(A)				
renou	for all stations	NM1	NM5	NM6	NM7	
0700-1900 hrs on normal weekdays		70/65*	75	75	75	
0700-2300 hrs on holidays & 1900- 2300 hrs on all other days	When one documented complaint is received	-	70	65	60	
2300-0700 hrs of next day		-	55	50	45	

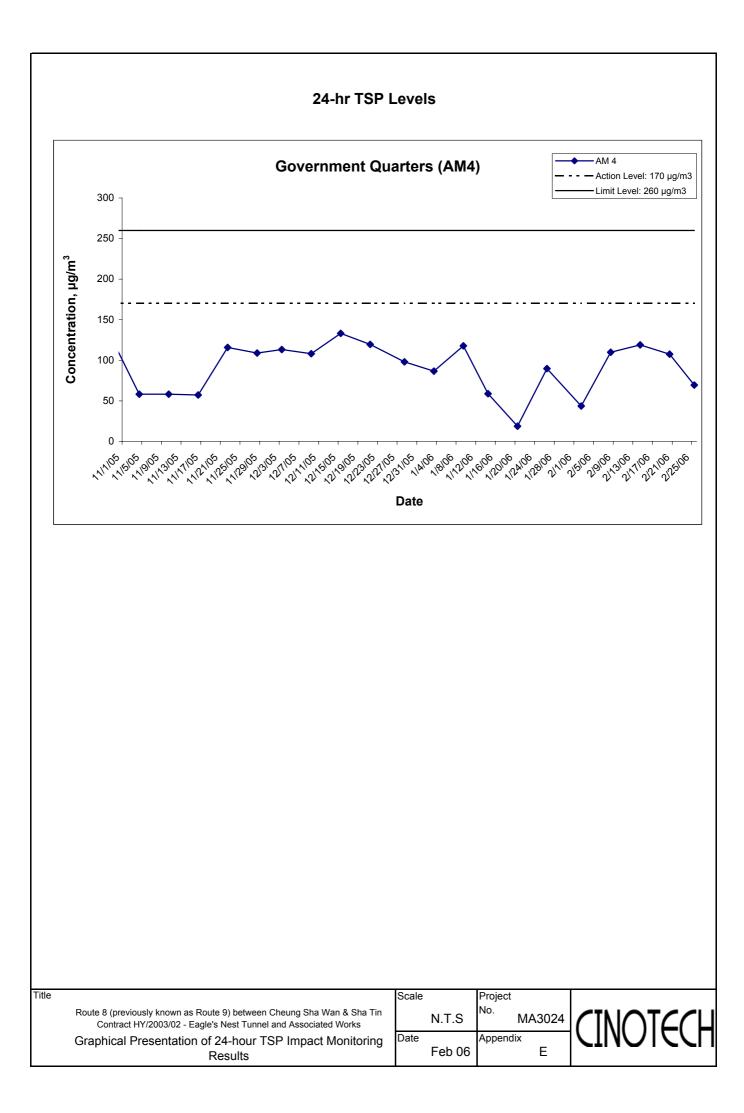
(*) Since NM1 is an educational institution, the noise Limit Level (0700-1900 hrs on normal days) is taken as 70 dB(A). The Limit Level will be reduce to 65 dB(A) during school examination periods.

APPENDIX E GRAPHICAL PRESENTATION OF AIR QUALITY MONITORING RESULTS

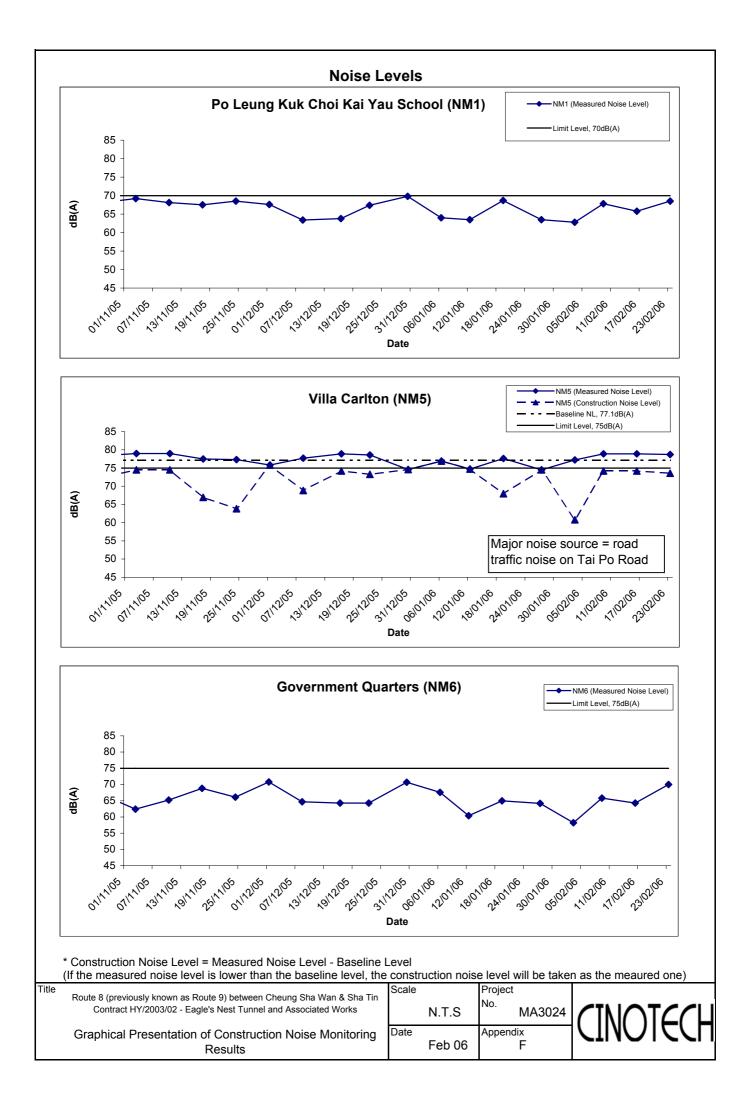


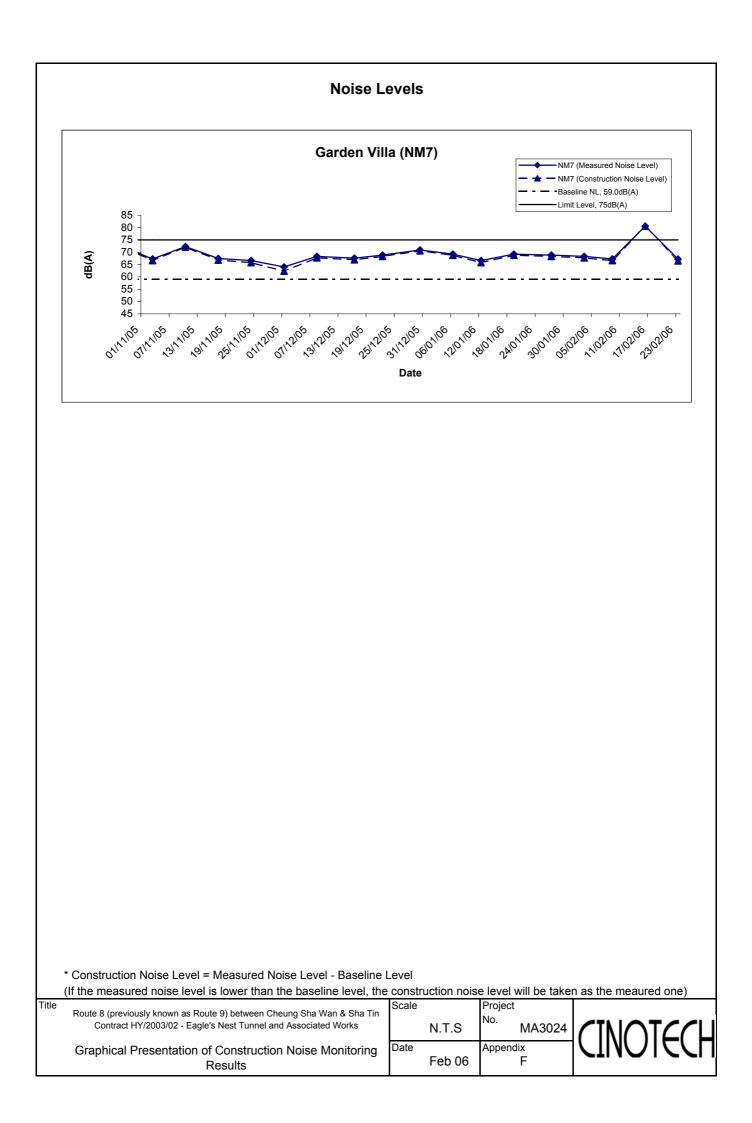


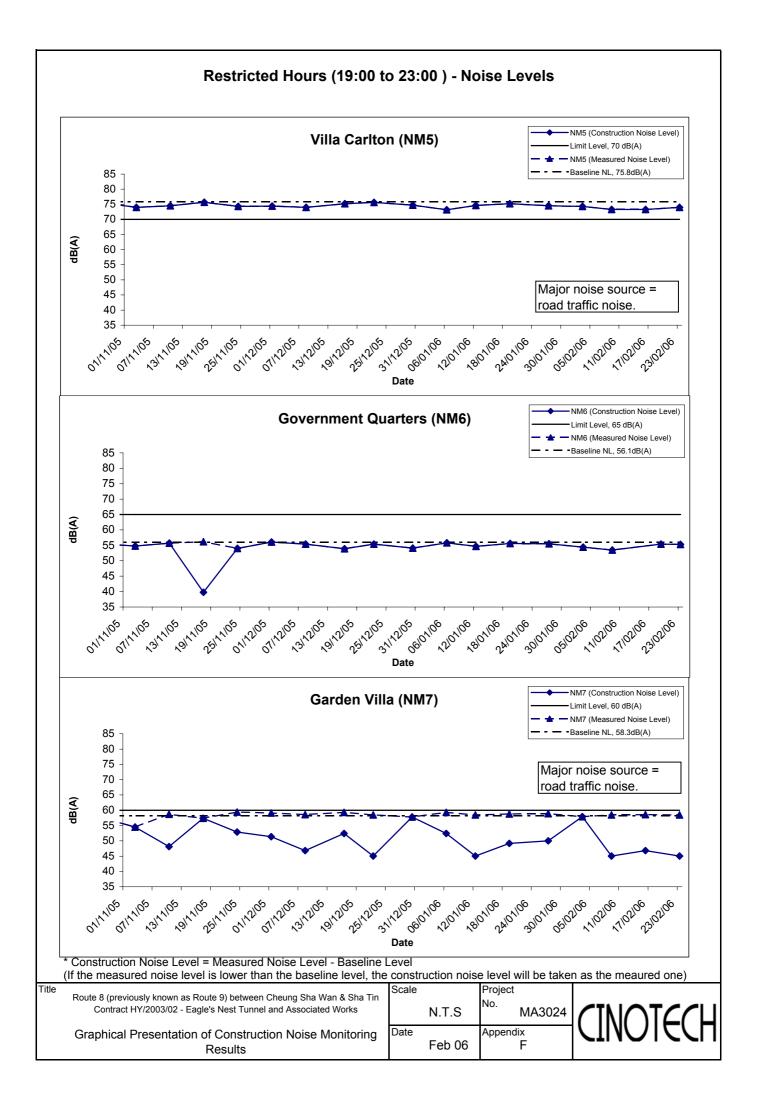


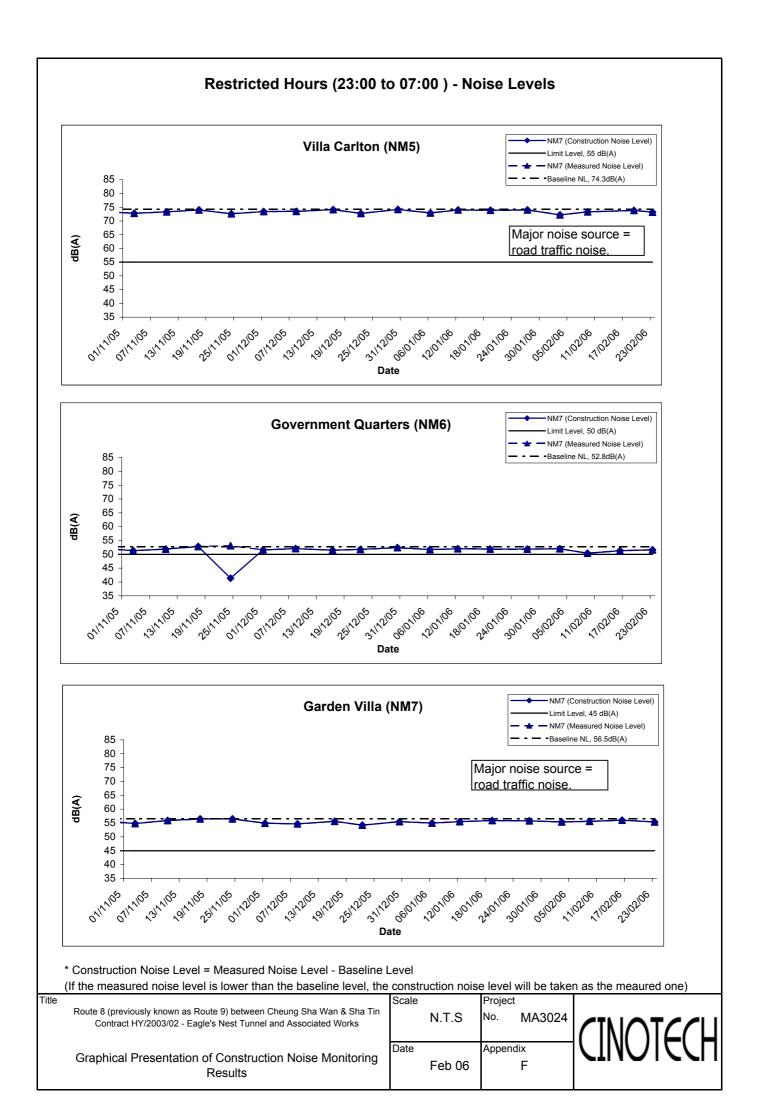


APPENDIX F GRAPHICAL PRESENTATION OF NOISE MONITORING RESULTS









APPENDIX G IMPLEMENTATION SCEDULE OF ENVIRONMENTAL MITIGATION MEASURES (EMIS)

Types of Impacts	Mitigation Measures	Status
	• Any stockpile of dusty materials or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water so as to maintain the entire surface wet.	^
	• A stockpile of dusty materials should not extend beyond the pedestrian barriers, fencing or traffic cones.	^
	• Vehicle washing facilities should be provided at every exit point.	^
	• The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores.	^
	• Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit.	^
Construction Dust	• Every main haul road should be sprayed with water or a dust suppression chemical so as to maintain the entire road surface wet.	^
Dust	• The portion of any road leading only to a construction site that is within 30m of a discernible or designated vehicle entrance or exit should be kept clear of dusty materials.	^
	• Any stockpile of dusty materials should be either covered entirely be impervious sheeting, placed in an area sheltered on the top and the 3 sides or sprayed with water or a dust suppression chemical so as to maintain the entire surface wet.	^
	• All dusty materials should be sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet.	^
	• Every vehicle should be washed to remove any dusty materials from its body and wheels immediately before leaving a construction site.	^
	• The working area of any excavation should be sprayed with water or a dust suppression chemical immediately before, during and immediately after the operation so as to maintain the entire surface wet.	^
Construction Noise	Only well-maintained plant should be operated on –site and plant should be serviced regularly during the construction works.	^
	• Machines and plant that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.	^
	• Plant know to emit noise strongly in one direction, should where possible, be orientated to direct noise away from the NSRS.	^
	• Mobile plant should be sited as far away from NSRs as possible.	^
	• Material stockpiles and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.	^
	• Use quite plant and Working Method	^
	• Reduce the number of plant operating in critical areas close NSRs.	^

Appendix G - Summary	y of Environmental	Mitigation I	mplementation Schedule
----------------------	--------------------	--------------	------------------------

Types of Impacts	Mitigation Measures	Status
	Construct temporary and movable noise barriers	^
Water Quality	Construction Runoff and Drainage	
	• Use of sediment traps and the adequate maintenance of drainage systems to prevent flooding and overflow.	^
	• Boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection. Temporary ditches should be provided to facilities runoff discharge into the appropriate watercourses, via a silt retention pond. Permanent drainage channels should incorporate sediment basins or traps and baffles to enhance deposition rates.	^
	• All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge should be adequately designed for the controlled release of storm flows. All sediment traps should be regularly cleaned and maintained. The temporarily diverted drainage should be reinstated to its original condition when the construction works has finished or the temporary diversion is no longer required	^
	• Sand silt in the wash water from the wheel washing facilities, which ensure no earth, mud and debris is deposited on roads, should be settled out the removed before discharging into storm drains. A section of the road between the wheel washing bay and the public road should be paved with backfill to prevent wash water or other site runoff form entering public road drains.	^
	• Oil interceptors should be provided in the drainage system and regularly emptied to prevent the release of oils and grease into the storm water drainage system after accidental spillage. The interceptor should have a bypass to prevent flushing during periods of heavy rain.	^
	• Catchpits and perimeter channels shall be constructed in advance of site formation works and earthworks.	^
	• Silt removal facilities, channels and manholes shall be suitably maintained with the deposited silt and grit being removed at least once a week, and at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	^
	• Earthworks final surfaces shall be well compacted and the subsequent permanent work or surface protection shall be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate intercepting channels shall be provided along the site boundary or at the locations agreed with the ET Leader. Rainwater pumped out from trenches or foundation excavations shall be discharged into silt removal facilities before discharge into storm drains.	^
	• All generators, fuel and oil storage shall be within bunded areas. Drainage from the areas shall be connected to storm drains via a petrol interceptor.	^
	Tunnelling Work	
	• Temporary open storage of excavated materials should be covered with tarpaulin or similar fabric during rainstorms. Any washout of construction or excavated materials form the drill and blast tunnelling work should be diverted to the drainage system via appropriate sediment traps.	^
	• Ground water pumped out of tunnels should be discharged into the drainage channels which incorporated sediment traps to enhance deposition rates and to remove silt.	^

Types of Impacts	Mitigation Measures	Status
	• Spend grouts used in diaphragm wall construction should be collected in a separate slurry collection system, reconditioned and reused wherever practicable. The disposal of used grouting materials will only be permitted if it is treated to the TM standards before discharge to the storm drains or disposal to landfill.	N/A
	General Construction Activities	
	• Debris and rubbish on site should be collected, handled and disposed of properly to avoid entering the water column and cause water quality impacts.	^
	• All fuel tanks and storage areas will be provided with locks and be located on sealed areas (within bunds of a capacity equal to 110% of the storage capacity of the largest tank or 20% by volume of the fuel stored in that areas, whichever in the greatest).	^
	Sewage Effluent	
	• Construction work force sewage discharges form fixed toilet facilities on-site should be connected to the nearby existing trunk sewer wherever feasible. However, for areas where existing trunk sewer is not available, it is recommended that appropriate and adequate on site portable chemical toilets should be provided by a licensed contractor who will be responsible for appropriate disposal and maintenance of these facilities.	^
	• It is considered that sewage discharges could also be treated by on-site septic tanks and soakaway. Minimum clearance away form streams and catchments and other requirements for the proposed septic tank and soakaway should be referred to EPD's Practice Note for Professional Persons, Drainage Plans.	N/A
Waste	General	-
	• Training and instruction shall be given at a site to construction staff to increase awareness and draw attention to waste management issues and the need to minimise waste generation. The training requirement shall be included in the site waste management plan.	^
	Storage, Collection and Transportation of Waste	
	• Wastes shall be handled and stored in a manner to ensure that they are held securely without loss or leakage.	^
	• Authorised or licensed waste hauliers shall be used and they shall only collect wastes prescribed by their permits.	^
	• Waste shall be removed on a daily basis.	^
	• Waste storage area shall be maintained and cleaned on a daily basis.	^
	• Windblown litter and dust during transportation shall be minimised by either covering trucks or transporting wastes in enclosed containers.	^
	• Obtain necessary waste disposal permits from the appropriate authorities if they are required.	^
	• Wastes shall be disposed of at licensed waste disposal facilities.	^
	• Develop procedure such as ticketing system to facilitate tracking of loads, particularly for chemical waste, and to ensure that illegal disposal of wastes does not occur.	^
	Maintain records of the quantities of wastes generated, recycled and disposed.	^
	Surplus Excavated Materials	

Types of Impacts	Mitigation Measures	Status
	• Due to the high risk of loose material being washed into the existing nullah, stockpile materials should be properly compacted and covered from water erosion and located at least 10m away from the nullah wall.	N/A
	Construction and Demolition (C&D) Waste	
	• Careful design, planning and good site management shall be adopted to minimise over-ordering and generation of waste materials such as concrete grouts.	^
	• The handling and disposal of bentonite slurries shall be undertaken in accordance with Practice Note for Professional Persons – Construction Site Drainage (ProPECC PN 1/94) on construction site drainage.	N/A
	• Construction and demolition (C&D) material shall be segregated to inert and non-inert parts. The inert portion shall re-used at areas of reclamation or land formation, or to public filling area shall such allocation is deemed necessary. The non-inert portion shall be disposed of to landfill.	^
	Chemical Waste	
	• Chemical waste that is produce during construction shall be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes.	^
	 Containers used for the storage of chemical wastes should: Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; Have a capacity of less than 450 litres unless the specifications have been approved by the EPD; Display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Chemical Waste Regulations. 	^
	 The storage area for chemical wastes should: a. Be clearly labelled and used solely for the storage of chemical waste; b. Be enclosed on at least 3 sides; c. Have an impermeable floor and bunding of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is largest; d. Have adequate ventilation; e. Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed as chemical waste if necessary); f. Be arranged so that incompatible materials are adequately separated. Disposal of chemical waste shall be via a licensed waste collector; and to a facility licensed to receive chemical waste; or a reuser of the waste (under approval from EPD). 	^
	General Refuse	I
	 General refuse generated on-site shall be stored in enclosed bins or compaction unit separate from C&D and chemical wastes. A reputable waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&D and chemical wastes, on a daily for every second day basis to minimise odour, pest and litter impacts. The burning of refuse on construction sites is prohibited by law. 	^

Types of Impacts	Mitigation Measures	Status
	Reusable rather than disposable dishware shall be used if feasible.	N/A
	• A sediment barrier shall be erected to minimize stream sedimentation at downstream of the project boundary of the Toll Plaza.	N/A
	• Conduct a tree survey before commencement of the construction work.	^
Ecology	• All measures recommended in the approved landscape proposals under Condition 2.4 in EP above shall be fully implemented in accordance with the details and time schedule set out in the submission.	N/A
	• Loss of the adjacent woodland due to temporary land take shall be returned to the original status immediately.	N/A
	• Wild and uncontrolled fire shall be strictly prohibited	^
	• Fences shall be erected along the boundary of the construction sites at the Toll Plaza before commencement of works, to prevent tipping, vehicle movements, and encroachment of personnel onto adjacent wooded areas.	N/A
Landscape and Visual Impact	 Landscape mitigation measure 1 (LMM1) – Construction programming and management. The periphery of the works areas at street level shall be managed so that they do not appear cluttered, untidy and unattractive and inconvenient to pedestrians. For example, all hoarding shall be colorfully designed with interesting motifs demonstrating the work of Highways Department. Hoardings with bland colours shall be avoided. 	N/A
	• Landscape mitigation measure 2 (LMM2) – Advanced planting and erosion control works. Where possible, the transplantation of existing valuable trees, the stockpiling of topsoil, new planting and erosion control works shall be carried out as early as possible in the construction period instead of at the end. This will assist in maximizing the time for carrying out transplantation and new planting, resulting in a higher success rate for the survival of transplantation and new planting, resulting in a higher success rate for the survival of new screen trees. The stockpiling of topsoil will provide an abundant use of on-site material for growing media. During detailed design, the issue of stockpiling of topsoil in a manner that would avoid washing into the drainage scheme should be examined comprehensively.	N/A
	 Measurement of vibration would also be carried out on a need basis during the piling work 	N/A

Remarks:

Compliance of mitigation measure; Not Applicable; \wedge N/A

Non-compliance of mitigation measure; Non-compliance but rectified by the contractor

Х

٠

APPENDIX H SUMMARY OF ENVIRONMENTAL LICENCES AND PERMITS

Appendix H - Summary of Environmental Licensing and Permit Status (ENT)

Permit No.	Valid	Period	Details	Status
	From	To		Status
Environmental Permit				
EP-103/2001/C	22/07/05	N/A	Construction and operation of (a) All civil works (including highways, traffic, geotechnical, drainage, structural, architectural and landscaping works) for the Lai Chi Kok Viaduct, the interchange with Ching Cheung Road, the main road within Butterfly Valley and the Eagle's Nest Tunnel; (b) All E&M works (including ventilation, Traffic Control & Surveillance System (TCSS), toll collection system and lighting) for the whole Route 9 between Cheung Sha Wan and Sha Tin; I The permanent slope works above the northern portal of the Eagle's Nest Tunnel; (d) The architectural works (including fitting out and furnishings) of the portal buildings of the Sha Tin Heights Tunnel.	Valid
Registration of Chemi	cal Waste Proc	lucer		
WPN 5213-761-L2595-01	26/01/04	N/A	N/A	Valid
Water Discharge Licer	nce		· · ·	
EP482/261/0327/I	03/05/04	31/05/09	Discharge of industrial trade effluent and effluent arsing from construction activities at the construction site at Ventilation Adit on Tai Po Road (behind Shell Filling Station) opposite Pinehilll Development Highways.	Valid
EP482/261/0326/I	01/04/04	30/04/09	Discharge of industrial trade effluent and effluent arsing from construction activities at the construction site at Mui Kong Tsuen, Butterfly Valley, Lai Chi Kok, Kowloon.	Valid
No. 3156	23/02/04	22/02/09	Discharge of industrial trade effluent and all other wastewater arising from the works areas at North Portal of Route 9 – Eagle's Nest Tunnel and Associated Works (Contract HY/2003/02).	Valid
Construction Noise Per	rmit (CNP)			
GW-RW0643-05	08/10/05	07/04/06	<i>Location</i> : Butterfly Valley <i>Time period</i> : general holiday (including Sundays) between 0700 and 2300 hours, and any other day between 1900 and 2300 hours.	Valid
GW-RW0073-06	07/2/06	4/5/06	<i>Location:</i> Butterfly Valley <i>Time period:</i> General holidays (including Sundays) between 2300 to 0700 hrs	Valid
GW-RW0043-06	6/2/06	5/8/06	<i>Location</i> : Ventilation Adit <i>Time period</i> : general holiday (including Sundays) between 0700 and 2300 hours, and any other day between 1900 and 2300 hours.	Valid

Permit No.	Valid Period		Details	Status	
Permit No.	From	То	Details	Status	
GW-RN0532-05	04/10/05	03/04/06	<i>Location</i> : South Portal <i>Time period</i> : general holiday (including Sundays) between 0900 and 2300 hours, and any other day between 1900 and 2300 hours.	Valid	
GW-RN0447-05	04/10/05	03/04/06	<i>Location</i> : South Portal <i>Time period</i> : Any day between 2300 and 0700 hours on next day.	Valid	
GW-RN0449-05	04/10/05	03/04/06	<i>Location</i> : North Portal <i>Time period</i> : general holiday (including Sundays) between 0900 and 2300 hours, and any other day between 1900 and 2300 hours.	Valid	
GW-RN0448-05	04/10/05	03/04/06	<i>Location</i> : North Portal <i>Time period</i> : Any day between 2300 and 0700 hours on next day.	Valid	
GW-RN0537-05	11/11/05	10/05/06	<i>Location:</i> Toll Plaza <i>Time period:</i> general holiday (including Sundays) between 0900 and 2300 hours, and any other day between 1900 and 2300 hours.	Valid	
GW-RN0593-05	08/12/05	07/06/06	<i>Location:</i> South and North Portal Buildings <i>Time period:</i> general holiday (including Sundays) between 0900 and 2400 hours, and any other day between 1900 and 2400 hours.	Valid	

APPENDIX I COMPLAINT LOG

Appendix I - Complaint Log

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
40426	Butterfly Valley	26 April 2004	A public noise complaint was recently received by EPD. The complaint was related to the noise generated from the Route 8 – ENT site near Butterfly Valley at the night time on 21 April 2004. EPD subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 23 April 2004.	Noise at night timeThe information provided by the RSS indicated that no works were undertaken by the Contractor during the concerned period. The concerned noise might probably be due to a burglary case occurred at same night.Noise during day-timeIt is believed that the day-time noise complaint was due to the site formation works of the Project. Considering the powered mechanical equipment used at the Butterfly Valley and the echo effect of the valley, ET believe that the day-time construction noise from the site at Butterfly Valley might cause nuisance to the nearby resident to some extent, though there was no noise level exceedance at the Government Quarters during our routine monitoring in last three months.The Contractor agreed to implement mitigation measures, including good site practices, selecting quieter plant and working methods and reduction in numbers of noisy plant operating currently, in order to mitigate noise impacts at the NSRs.	Closed
40914	Garden Villa	13-Sep-04 (by EPD) 14-Sep-04 (by ET Leader)	Environmental Protection Department (EPD) received a public noise complaint on 13 September 2004 about construction noise generated from the Route 8 – Eagle's Nest Tunnel and Associated Works (R8-ENT) Project, nearby by Garden Villa at Tai Po Road, Sha Tin. EPD subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 14 September 2004. The complaint was about general construction noise generated from a construction site nearby Garden Villa at Tai Po Road, Sha Tin. As informed by EPD,	Environmental Permits A Construction Noise Permit (No. GW-RN0405-04) was obtained by the Contractor for the use of powered mechanical equipment (PME) in the concerned works area and use of TAR no.1 during restricted hours. Blasting Works According to the information provided by the Resident Site Staff (RSS), for carrying out blasting works, a blasting permit should be issued by the Mines Division of Civil Engineering and Development Department (CEDD), but not under the jurisdiction of EPD. The CNP issued by EPD only specified the use of PME but not the blasting works during restricted hours.	Closed

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			 the complainant was particularly concerned of two issues: The complainant was informed by the Contractor (Leighton – Kumagai Joint Venture) that blasting works would be conducted during restricted hours. He worried about the noise nuisance would be induced by the blasting works. Noise nuisance from some site vehicles traveling on the Temporary Access Road (TAR no.1) near Garden Villa was noted by the complainant during restricted hours. 	As advised by the RSS, the Contractor did intend to apply for a permit to the Mines Division of CEDD for blasting works during restricted hours. However, up to the time of preparation of this report, the Contractor still had not obtained the approval from the Mines Division and therefore, no blasting works were performed by the Contractor during restricted hours. <u>Use of TAR no.1</u> According to Condition 3d of the above-mentioned CNP, there was restriction on the use of site vehicles traveling on TAR no.1. The usage of site vehicles on TAR no.1 in a 2-week period before the date of complaint, i.e. 30 th August to 12 th September 2004 showed that the only vehicle type using TAR no.1 for the concerned period was concrete truck and the number of vehicle pass was limited to 4 times per hour, which was in compliance with the above CNP's conditions. Regular noise monitoring was undertaken by ET at Garden Villa on 30 th August and 6 th September 2004 during restricted hours (1900 – 2300 hours). The monitoring results were 58.7 dB(A) and 58.6 dB(A), respectively, which were below the noise limit level of 60 dB(A). However, it should be noted that site vehicles were not used by the Contractor on TAR no.1 during restricted hours on these two monitoring day. Based on the information obtained, the validity for the noise complaint in associated with night-time blasting works, could not be concluded under ET's investigation, since no blasting works had been performed by the Contractor during restricted hours at the time of the report preparation. Also, it should be highlighted that for carrying out blasting works, permission should be obtained by Mines Division of CEDD, but not under the control of EPD. For the use of TAR no.1, the RSS's records showed that the number of vehicle pass in the period between 30 th August and 12 th September 2004 was complied with the CNP's conditions. It should be noted that only a maximum of 3 concrete trucks	

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
			Environmental Protection Department	 passing the site entrance was recorded. Therefore, it was considered that the nuisance noted by the complainant was not due to the site vehicles adopted by the Contractor (LKJV). Nevertheless, the Contractor was reminded to ensure the compliance of the CNP conditions and adopt good site practice to minimize the construction noise. According to the information provided by the RSS, no 	
41021	Garden Villa	09-Oct-04 (by EPD) 21-Oct-04 (by ET Leader)	 (EPD) received a public noise complaint on 9 October 2004 about construction noise generated from the Route 8 – Eagle's Nest Tunnel and Associated Works (R8-ENT) Project, nearby by Garden Villa at Tai Po Road, Sha Tin. EPD subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 21 October 2004. The complaint was about nighttime construction noise generated from a construction site nearby Garden Villa at Tai Po Road, Sha Tin. As informed by EPD, the complainant was particularly concerned of two issues: Construction works undertaken by the Contractor (Leighton–Kumagai Joint Venture) were noted after 2300 hour. Some workers were noted leaving the site through Temporary Access Road (TAR) no.1 at around 2 am, causing nuisance to the residents in Garden Villa. 	 According to the information provided by the RSS, no construction activity was undertaken in the nighttime period (2300 – 0700 hours) at the concerned site area. LKJV did admit that some vehicles had been operating at midnight for transporting LKJV's survey workers from the site. Inconsiderate behaviors were noted causing nuisance to Garden Villa residents: Driving the vehicles too fast, which generated excessive engine noise; Noise inside the vehicles (such as staff talking or radios) escaping through the open vehicle windows; and Vehicle beeping horn to request the guards to open the gate. In order to rectify the situation, LKJV had notified the relevant staff with the receipt of the complaint and urged them to take appropriate measures when using TAR1 at night: to drive slowly in order to reduce the engine noise, especially when approaching Garden Villa; to roll up the vehicle windows to contain any noise from talking or radios; and 	Closed

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
41023	Government Quarters (Butterfly Valley)	20-Oct-04 (by MHJV) 23-Oct-04 (by ET Leader)	A public complaint was received by the Engineer's Representative (ER) of Route 8 – Eagle's Nest Tunnel and Associated Works (R8-ENT) Project on 20 th October 2004. The complaint was raised by a resident of the Government Quarters at Caldecott Road, concerning dust generation as a result of the construction activities at Butterfly Valley. The ER subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 23 rd October 2004.	 The complaint was considered valid based on: ER's site observations; ET's weekly site audit; and 1-hr TSP exceedance record. Also, the sources of dust generation were identified as 2 portions of the haul roads, one at Slope BV-S2 and one linking between South Portal Tunnel to Mui Kong Tsuen, were found to be dry. Dust impact due to the haulage of excavated materials at the South Portal. Enhanced dust suppression measures had been implemented by the Contractor: added rockfill to the haul road between South Portal Tunnel and the Gully fill area; maintained watering to haul road at Slope BV-S2; requested the fill material supplier to ensure the material was in a damp condition before leaving quarry; provided for material not dampened at the Quarry to be directed to the wheel wash for water spray before entering the site; when cleaning drill holes along slope BV-S4 to ensure adequate water was available for flushing to suppress dust emission; AND provided damper stockpiles of cleared material at BV-S2 before loading. Based on ER's site observations, most of the above mitigation measures have been implementing by the Contractor. Also, an additional water browser was delivered to site on 29th Oct 04. No significant fugitive dust emission has been found. During ET's site inspections on 27th Oct and 3rd Nov 2004, the situation was found improved. No deficiency relating to air quality impact was noted by ET during the two audit sessions. The results of air quality monitoring (1-hr and 24-hr TSP) in the period between 21st Oct and 2nd Nov 2004 were all found to be complied with the Action / Limit Levels. 	Closed

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
41124	Government Quarters (Butterfly Valley)	21-Nov-04 (by LKJV) 24-Nov-04 (by ET Leader)	A public complaint was received by the Contractor of Route 8 – Eagle's Nest Tunnel and Associated Works (R8- ENT) Project on 21 st November 2004 (Sunday). The complaint was concerned about excessive noise generation from construction machinery at Butterfly Valley on the same day. The Engineer's Representative (ER) subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 24 th November 2004.	According to the ER, the only construction activity at Butterfly Valley undertaken on 21 st Nov 04 was formation of access road near Slope BV-S2. The activity only involved operations of 1 no. of excavator and 1 no. of dump truck with grab, which complied with the condition stipulated in a valid CNP GW-RW0484-04, which was hold by the Contractor. Routine noise monitoring was conducted on 21 st and 28 th Nov 2004 at NM6. All the measured noise levels (48.5 to 56.4 dB(A)) were well below the noise limit level. In addition, the measurement results were within the baseline noise level. Therefore, the complaint was considered to be invalid. Nevertheless, the Contractor was reminded to ensure the compliance of the conditions stipulated in CNP. The Contractor was also recommended to adopt good site practice in order to minimize the construction noise.	Closed
41201	Government Quarters (Butterfly Valley)	01-Dec-04 (by MHJV & ET Leader)	A public complaint was received by the Engineer's Representative (ER) of Route 8 – Eagle's Nest Tunnel and Associated Works (R8-ENT) Project on 1 st December 2004. The complaint was raised by a resident of the Government Quarters at Caldecott Road, concerning dust generation at Butterfly Valley. The Environmental Team (ET) of the Project was informed with the complaint on the same day. The resident complained that a large portion of the excavated slopes was not properly covered, which caused dust nuisance to her.	 The complaint was considered valid based on: 1. ER's site observations; 2. ET's weekly site audit Upon receipt of the complaint, a series dust control measures had been implemented by the Contractor, such as covering of the exposed slopes with appropriate sheeting, regular watering to the haul roads and excavated slope faces, etc. During the ET's weekly site audit on 08-Dec-04 together with the representative of HyD, IEC, ER and the Contractor, the above mitigation measures were observed. The idle slopes at BVS2 had been covered by tarpaulin sheeting and erosion mat. The left exposed slope surfaces at BVS2 were under excavation, thus being unable to be covered. According to the ER, the complainant has expressed his satisfaction to the site condition on 07-Dec-04, after the implementation of dust mitigation measures by the 	Closed

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				Contractor. However, owing to the prevailing of the dry season, the Contractor was reminded to ensure the dust control measures are effectively implemented.	
50125	Garden Villa (North Portal)	21-Jan-05 (by EPD) 25-Jan-05 (by ET Leader)	 Environmental Protection Department (EPD) received a public noise complaint on 21 January 2005 about construction noise and dust generated from the Route 8 – Eagle's Nest Tunnel and Associated Works (R8-ENT) Project, nearby by Garden Villa at Tai Po Road, Sha Tin. EPD subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 25 January 2005. The complaint was about construction noise and dust generated from a construction site nearby Garden Villa at Tai Po Road, Sha Tin. The complainant was particularly concerned of two issues: Noise from tunnel blasting work carrying out at around 7:30am and 10:00pm; and Dump trucks without covering of canvas when leaving the construction site. 	 Noise from blasting For carrying out the blasting, the Contractor had obtained the permit from relevant authority. The ET's noise monitoring results did not show any exceedance for the measurement taken when blasting was in place. It should be highlighted that for carrying out blasting works, permission should be obtained by Mines Division of CEDD, but not under the control of EPD. In order to minimize the nuisance from the works, the Contractor was recommended: To inform the residents around the area about the time of blasting in advance; and To re-schedule the blasting time table, if possible, in order to avoid nuisance. Uncovered dump trucks In order to evaluate the situation, two inspections were carried out by the ET at Garden Villa on 27-Jan and 28-Jan-05 to identify the dump trucks leaving the site with uncovered load. On 27-Jan-05, 3 nos. of trucks, which were working for ENT Project, was noted by-passing Garden Villa without proper cover. Enhanced control (penalty system) was implemented by the Contractor after the inspection on 27-Jan. During the inspection on 28-Jan-05, 24 nos. of dump trucks for ENT Project were found leaving the site. No non-compliance was noted for the trucks working for ENT Project. LKJV was reminded to keep closely monitoring on the condition and the effectiveness of the proposed control measures. 	Closed

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
50308	Garden Villa (North Portal)	05-Mar-05 (by EPD) 08-Mar-05 (by ET Leader)	 EPD received a public complaint on 5 March 2005 about construction noise and dust generated from the construction sites of Route 8 – Eagle's Nest Tunnel and Associated Works (R8-ENT) and Route 8 - Sha Tin Heights Tunnel and Approaches (R8-SHT), nearby by Garden Villa at Tai Po Road, Sha Tin. EPD subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 8 March 2005. The complaint was about construction noise and dust generated from the construction sites nearby Garden Villa at Tai Po Road, Sha Tin. The complainant was particularly concerned of the following issues: Nighttime & Sunday construction noise Noise from tunnel blasting at early morning and nighttime Dust from construction activities 	 Nighttime & Sunday construction noise no exceedance for noise monitoring restricted hour works were found complied with the CNPs records of vehicular trips on TAR1 did not show non-compliance of CNP conditions Noise from tunnel blasting at early morning and nighttime no exceedance for noise monitoring valid blasting permit had been obtained from CEDD blasting work is not under the jurisdiction of EPD Dust from construction activities dump trucks with uncovered / inadequately covered materials were observed leaving site no exceedance for TSP monitoring enhanced dust suppression measures had been implemented by the Contractor Conclusions The complaint against the dust issue (uncovered / inadequately covered dump trucks) was considered justifiable The Contractor was reminded to review the current checking system. Continuous spot checks would be performed by ET and RSS. 	Closed
50330	Garden Villa (TAR1)	30-Mar-05 (by EPD & ET Leader)	Environmental Protection Department (EPD) received a public complaint on 30 th March 2005 about construction noise from the sites of Route 8 – Eagle's Nest Tunnel and Associated Works (R8-ENT) near Garden Villa at Tai Po Road, Sha Tin. The complaint, which was lodged by a resident of Garden Villa on 29 th March 2005, was about the noise generated by heavy vehicles traveling in and out of the construction site near Garden Villa. According to the complaint, the noise was made from 7am onwards.	The site of concern was likely to be the Temporary Access Road no.1 (TAR1) connecting Tai Po Road and the construction sites of R8-ENT and Route 8 - Sha Tin Heights Tunnel and Approaches (R8-SHT). The time period of concern was within normal working hours (7am to 7pm) on a weekday not being holidays. According to the EM&A Manual, the criterion of construction noise in term of L_{eq} -30min within this period is 75 dB(A) for domestic premises. Since the commencement of the Project, no exceedance of daytime noise criterion of 75 dB(A) was recorded at Station AM3 (Garden Villa). During the 2-hour measurement period of the ad-hoc monitoring (0700-0900 hrs), all the measured noise levels (L_{eq} -30min) were below the daytime noise	Closed

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				 criterion of 75 dB(A). Based on the results of routine noise monitoring and the adhoc measurement on 1st April 2005 at Garden Villa, no exceedance of daytime noise criterion of 75 dB(A) was recorded. The complaint lodged is therefore considered not justifiable. In order to minimize the nuisance generated by the vehicle use at Garden Villa, the Contractor has proposed to limit the frequency of trucks existing from TAR1 at a rate of one truck per minute during the time period of concern (7am to 8:30am). 	
50415	Government Quarters	09-Apr-05 (by EPD) 15-Apr-05 (by ET Leader)	The complaint, which was lodged by a resident of 7/F, 38B, 8-10 Caldecott Road (Governmental Quarters) on 9 th April 2005, was about the noise generated by the construction works at the Butterfly Valley during daytime. The complainant mentioned that the instant noise level taken by himself was 78 to 82 dB(A). EPD subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 15^{th} April 2005. The time period of concern was within normal working hours (7am to 7pm) on a weekday not being public holidays. According to the EM&A Manual, the criterion of construction noise in term of L_{eq} -30min within this period is 75 dB(A) for domestic premises.	 Governmental Quarters (Station NM6) is one of the designated noise monitoring stations in the EM&A programme. Routine monitoring is undertaken on a weekly basis in accordance with the EM&A Manual. Since the commencement of the Project, no exceedance of daytime noise criterion of 75 dB(A) was recorded at this station. Ad-hoc measurement was conducted at the complainant's premises on 22 Apr 05. The measured noise level was 69.0 dB(A), which was well below the daytime noise criterion of 75 dB(A). Based on the results of routine noise monitoring and the adhoc measurements conducted in the complainant premises, no exceedance of daytime noise criterion of 75 dB(A) was recorded. The complaint lodged is therefore considered not justifiable. 	Closed

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
50419	Government Quarters	15-Apr-05 (by EPD) 19-Apr-05 (by ET Leader)	The complaint was lodged by a resident of 8-10 Caldecott Road (Government Quarters) on 15 th April 2005 to EPD as well as the Chief Resident Engineer of the Project. EPD subsequently referred the complaint to the Environmental Team (ET) Leader of the Project on 19 th April 2005. The complainant mentioned that they had experienced quite a lot of noise emanating from the tunnel drilling area after 11pm over several nights and most particularly at the night of 14 th April 2005 and at 4am on 15 th April 2005.	The site of concern was likely to be the South Portal. For carrying out construction works at this area during restricted hours, two Construction Noise Permits (CNPs no. GW- RW0085-05 and GW-RW0086-06) were obtained by the Contractor in accordance with the requirements stipulated in Noise Control Ordinance. According to the information provided by the Resident Site Staff and the Contractor, the construction activities undertaken in the period between 11 th and 15 th April 2005 from 1900 to 0700 hours included drilling, breaking, trimming, set up of rock drill, installation of arch-rib and grouting. The powered mechanical equipment (PME) involved in the above works included backhoe, rock drill, loader, dumper, shot-crete machine, group pump, mobile platform and grout machine, which were covered by the CNPs. According to the routine monitoring results, for the time period between 2300-0700 hours, the measured noise levels exceeded the corresponding noise Limit Level of 50dB(A). However, the measured levels were found within the range of baseline level and below the average baseline level. Based on the routine noise monitoring results at Station NM6, the measured noise levels for the period between 2300-0700 hours were below the baseline noise level, which was comparable to the ambient level. According to the RSS's record, the PME items operated during the concerned period were found covered by the 2 CNPs hold by the Contractor. Based on the available information, there is not enough evidence to prove whether the complaint against nighttime construction noise generated in the concerned period (11 th to 15 th April 2005) is justifiable or not.	Closed

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
50512	Yew Chung International School	12-May-05	On 11 May 05, a notice was sent to Yew Chung International School (YCIS) by the Contractor, providing their tentative blasting schedule on 12 May 05. It was shown that one of the blasting operations was scheduled at 09:30am, at when an examination was being held in YCIS. Upon receipt of the notice, a representative of YCIS lodged a complaint to the Contractor via the Project's hotline at 07:40 on 12 May 2005. The complainant expressed her objection to the blasting operation taken at 09:30am when the examination was taken place. The Contractor then agreed on one occasion only to delay the tunnel blast planned for 9:30am until 9:50am (i.e. 5 min after the examination). The complainant satisfied but did expect no future blasting during the examination period. According to the Engineer's Representative, the Contractor did not wish to make any commitment to ensure no blasting would be taken within the examination period.	A 1-day continuous noise measurement was conducted by the Environmental Team at Station NM1 on 26 May 05. According to the ER's record, two blasting operations were taken in the vicinity of YCIS on 26 May 05. One surface blast was taken at Butterfly Valley at 15:42 and one tunnel blasting was taken at South Portal at 16:56. The measurement results showed that the noise impact in term of Leq-5min and Leq-30min arising from the blasting operations was insignificant. No exceedance of construction noise criterion for examination period was recorded (Leq- 30min < 65dB(A)). The complaint lodged was therefore considered not justifiable. However, in order to minimize the potential nuisance arising from the blasting noise and the siren sounds prior to blasting, the Contractor was recommended to consider scheduling the blasting operations beyond the examination periods.	Closed

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
50610	Government Quarters	10-Jun-05	On 10 June 2005, the Resident Site Staff (Maunsell-Hyder Joint Venture) received a complaint from a resident of the Government Quarters at Caldecott Road. The complaint was concerned about the construction dust generation as a result of the construction activities of the Project at Butterfly Valley. The complainant had not specified which construction activities had contributed to the dust generation.	 Site Observations According to the RSS's preliminary investigation, it was considered that soil nailing at Slope BV-S2 was the dominant dust source and was likely to be the activity of concern. The dust suppression measures taken were found inadequate to control the dust dispersion from the works. Noticeable dust dispersion from the soil nailing work could be observed. Corrective Actions After the Contractor was notified by the RSS of the complaint, immediate action was taken by the Contractor on the same day (10 June 2005). The dust mitigation measures for the soil nailing were enhanced. An additional thicker cover was used. Also, continuous water spray was applied to suppress the dust emission. Environmental Outcome The RSS made a response to the complainant on 10 June 2005. The complainant was informed of the rectification actions taken by the Contractor. No further adverse comment was received from the complainant. Conclusions Based on the RSS's information, this complaint is considered to be valid and related to the construction activities of the Project. However, corrective action had been taken by the Contractor immediately and the situation was found improved. 	Closed

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
50712	A scattered house near South Portal and Tai Po Road Water Treatment Works Staff Quarters	12-Jul-05	On 12 July 2005, a resident, whose house is located near South Portal and Tai Po Road Water Treatment Works Staff Quarters, lodged a complaint to the Contractor via the Project's hotline at 11:40am. The complainant expressed his concern on the nuisance caused by the blasting works at early morning (before 07:00 hours) and late night (after 23:00 hours).	 Site Activity According to the information provided by the RSS, tunnel blasting works have been taken place in the concerned period in north bound tunnel from the Ventilation Adit towards the direction of the South Portal. Environmental Requirements In the EP, the EM&A Manual of the Project and the NCO, no requirement is specified for the control of blasting operation and the associated environmental impact, such as blasting noise. It should be highlighted that for carrying out blasting works, permission should be obtained by Mines Division of CEDD, but not under the jurisdiction of EPD. For carrying out the above-mentioned blasting operations, the Contractor has obtained a valid blasting permit from CEDD under the Dangerous Goods Ordinance (Cap. 295). Under this permit, the Contractor is allowed to carry out 24-hour blasting works within the designated area. Contractor's Actions Though the blasting noise is not under the control of any environmental related regulation and the Contractor is allowed to carry out 23:00 hours. This arrangement could effectively reduce the potential nuisance to the residents within the more sensitive time period (23:00 to 07:00 on next day). Conclusions The subjected blasting operations were carried out by the Contractor under a valid blasting permit. The complaint lodged is therefore considered not justifiable. 	Closed

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
50809	Government Quarters (8-10 Caldecott Road)	09-Aug-05	On 9 August 2005, a resident of 8-10 Caldecott Road (Government Quarters) lodged a complaint to the Contractor via the Project's hotline at 14:30. The complainant expressed her concern on the nuisance caused by the blasting works undertaken at Butterfly Valley. Noise impact arising from the blasting works was one of the issues raised by the complainant.	Ad-hoc Noise Measurement An ad-hoc noise measurement was carried out on the roof of Government Quarters during a surface blast on 16 August 2005. According to the record of the RSS and the site observation, a surface blasting was undertaken at Butterfly Valley at around 15:38 on the monitoring day. The results show that the measured noise level in term of Leq- 30min, i.e. 69.1 dB(A) during the surface blasting was well below the daytime construction noise criterion of 75 dB(A). <i>Conclusion and Recommendation</i> According to the results of ad-hoc noise measurement taken at Government Quarters on 16 August 2005, the measured noise levels (Leq-30min) did not exceed the noise criterion of 75 dB(A). In addition, the subjected blasting operations were carried out by the Contractor under a valid blasting permit. For the concern of noise impact, the complaint was considered not justifiable.	Closed
50830	Government Quarters (8-10 Caldecott Road)	30-Aug-05	 The RSS received a public complaint from a resident of Government Quarters addressing two noise issues: 1. Noise nuisance caused by drilling works at Butterfly Valley; 2. Noise nuisance due to blasting 0045 hrs of 28 August 2005. 	Noise Measurement No exceedance was recorded for the routine noise monitoring at NM6 (Government Quarters). Ad-hoc noise measurement was conducted on 1 and 2 Sept 05. All measured noise levels complied with the noise criteria. Conclusion The complaint was considered not justifiable. However, the Contractor had taken proactive actions in order to minimize the nuisance of the residents, (1) to stop the rock breaking works at BVS2 and (2) to install temporary noise barriers for drilling works.	Closed

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
50928	Government Quarters (8-10 Caldecott Road)	28-Sept-05	A resident of Government Quarters complaint about a blast undertaken at 0215hr on 28 Sept 05.	 Environmental Monitoring After receiving the complaint, the ET carried out a continuous noise measurement at Station NM6 (Government Quarters) from 29 to 30 September 2005. All the measured noise levels in term of Leq-5min are close to the baseline noise level. The noise levels after correction of baseline levels were all below the noise criterion of 50 dB(A). Conclusion The subjected blasting operations were carried out by the Contractor under a valid blasting permit. In addition, no noise exceedance was recorded for the ad-hoc noise monitoring. The complaint lodged is therefore considered not justifiable. 	Closed
51025	Caldecott Hill (2 Caldecott Road)	25-Oct-05	A public complaint was received by the MWPMO of Highways Department on 25 October 2005. The complaint was subsequently refereed to the RSS and Environmental Team of Route 8 – Eagle's Nest Tunnel and Associated Works (R8- ENT) Project. The complaint was lodged by the management company of Caldecott Hill (No.2 Caldecott Road). It was about dust generation when construction vehicles, particularly dump trucks and concrete trucks, traveling along the Water Treatment Works (WTW) access road and its junction with Caldecott Road. According to the photos provided by the complainant, noticeable dust generation was observed during construction vehicles movement on the roads of concern.	 Site Observations Ad-hoc site inspections were carried out on 25 and 26 Oct 05. On 26 Oct 05, the WTW access road was observed dry. Deposition of dusty materials was noted. Significant dust generation was identified during vehicle movement. <i>Contractor's Actions</i> Mitigation actions were taken by the Contractor: One labour was appointed to water spray the concerned road junction and clear up of dusty materials deposited on the WTW access road. Regular watering on access road by hose pipe was performed to keep the road wet. All vehicles would be wheel-washed and loads of dusty materials would be covered before leaving the site. <i>Conclusions</i> Based on the site observations, this complaint was considered to be valid and related to the Project works. However, enhanced dust mitigation measures were taken by the Contractor and the situation was found improved. 	Closed

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
51031	Po Leung Kuk Choi Kai Yau School	31-Oct-05	The resident site staff (MHJV) of R8-ENT received a complaint from the Principal of PLKCKY School. She commented that the blasting noise (nighttime and daytime) at Butterfly Valley became louder than before.	An ad-hoc noise measurement was taken by ET on 5 Nov 05 to evaluate the noise impact due to daytime surface blasting at the BV. The measurement results revealed that there has been no exceedance of noise level criteria. The complaint was therefore considered not justifiable.	Closed
51101	Butterfly Valley (Government Quarters)	1-Nov-05	 On 1 Nov 05, the Resident Site Staff received a complaint from a resident of the Government Quarters. On 2 Nov 05, a complaint of similar natures and same location was received by the Environmental Protection Department. The complainant was concerned about the following environmental issues: 1. Noise nuisance due to tunnel blasting works undertaken at midnights and in early mornings (3am to 5am); 2. Noise nuisance due to operation of a generator after 11pm; 3. Construction dust and daytime noise due to processing and stockpiling of crushed rocks at Butterfly Valley; 4. Noise nuisance due to works outside tunnel in the early morning of 2 Nov 05. 	Item 1: Noise nuisance due to tunnel blastingFor carrying out the above-mentioned blasting operations, theContractor has obtained a valid blasting permit from CEDD.Under this permit, the Contractor is allowed to carry out 24-hour blasting works. As advised by the Contractor, all theblasting operations had been completed by 12 Nov 05.Item 2: Noise due to operation of a generator after 11pmAccording to the Construction Noise Permit issued by EPD,one generator was allowed to be operated after 11pm at SouthPortal area outside the tunnel. In view of the provision ofacoustic enclosure and the separation distance from thegenerator to Government Quarters (around 300m), the noiseimpact arising from this generator onto the residents of theQuarters was believed to be insignificant. During the ET'sinvestigation on 11 Nov 05, no engine-like noise generatedfrom the construction site could be identified.Item 3: Dust and noise due to handling of crushed rocksNo noise exceedance was recorded. During the weekly siteinspections, deficiencies regarding inadequate dust mitigationmeasures for the crushed rock processing and stockpiling wereoccasionally observed. Dry / uncovered stockpiles and dustemissions from crushed rocks handling were sometimes noted.Item 4: Noise from works out of tunnel in morning of 2 Nov 05According to the RSS's site records, there has been no activityoutside the tunnel in the early morning of 2 November 2005.Work was undertaken deep inside the tunnel during thecorried period. The mentioned noise muisance might not be <t< td=""><td>Closed</td></t<>	Closed

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
				<u>Conclusion</u> Based on the information obtained, environmental monitoring results and site observations, this complaint was considered not justifiable, except for the concern of dust nuisance due to crushed rock processing.	
51205	Caldecott Road junction	5-Dec-05	The complaint was lodged by the management company of Villa Carlton. The complainant mentioned that several complaints from the occupants of Villa Carlton were received, against the dust emission when they drove to Kowloon via the Caldecott Road Junction. She also considered that the amount of water spraying by the Contractor was insufficient to suppress dust emission at Caldecott Road Junction.	 <u>Complaint Record</u> A similar complaint (Log no. 51025) was received on 25 Oct 05 from Caldecott Hill. Significant dust emission was noted when construction vehicles traveling along the WTW access road and its junction with Caldecott Road. With implementation of enhanced dust mitigation measures, the situation was found improved and satisfactory. <u>Site Observations</u> Since Nov 05, in order to observe the Contractor's actions taken for the above-mentioned complaint, the area of interest was included during the weekly environmental audit. No deficiency had been noted at this area during the audit. After receiving this new complaint (Log no.51205), several ad-hoc site inspections were carried out on 6, 8 and 14 Dec 05. In addition, the RSS of the Project had carried out daily checking of the condition of the Caldecott Road Junction. Sufficient dust mitigation measures had been implemented by the Contractor. The condition was found satisfactory. Therefore, this complaint was considered not justifiable. However, it is noted that the Contractor had stepped up dust mitigation measures to further improve the condition at Caldecott Road junction. 	Closed

Log Ref.	Location of Concern	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
60204	Garden Villa	4-Jan-06 (by ETL)	 A public complaint was received by the Environmental Protection Department on 3 January 2006. The complaint was subsequently referred to the Environmental Team of Route 8 – Eagle's Nest Tunnel and Associated Works (R8-ENT) Project on 4 January 2006. According to EPD's information, the complaint was lodged by a complainant, who walked along Tai Po Road on 1-2 January 2006. The following information was given by EPD for our investigation: Time of concern: 1-2 January 2006 (Daytime) Suspected site area of concern: ENT's Toll Plaza and Administration Building. Dust and noise nuisance was noted by the complainant when he passed Garden Villa. Noise from wood saw and crane or alike was noted. 	 A. Construction Noise Impact According to the Contractor's information, construction activities were carried out on 1 and 2 Jan 06, including: Erection and dismantling of formwork Fixing water pipe All the equipment operated by the Contractor on 1-2 Jan 06 complied with the permissible equipment stated in the CNP. On 1 Jan 06, noise monitoring was carried out. All the results complied with the noise criterion. B. Construction Dust Impact Erection and dismantling of formwork and fixing water pipe were considered not dust emissive in nature. For stockpiles of materials in Toll Plaza area, dust mitigation measures had been implementing by the Contractor. The condition in term of dust control was found satisfactory during the audit sessions on 4 and 11 Jan 06. Since December 2005, all TSP monitoring results complied with the Action / Limit Level. Conclusion Based on the information given, site observations and environmental monitoring results, this complaint was considered not justifiable. Nevertheless, the Contractor was reminded to adopt good site practice to minimize the environmental impacts at the nearby sensitive receivers 	Closed

APPENDIX J SUMMARY OF EXCEEDANCES

Summary of Exceedances Recorded in the Reporting Quarter

a) Exceedance Report for 1-hr TSP (NIL)

b) Exceedance Report for 24-hr TSP (NIL)

c) Exceedance Report for Construction Noise

- One Action Level exceedance was recorded due to a complaint received on 4 January 2006. The details can refer to **Appendix I**.
- One Limit Level exceedance was recorded on 16 February 2006.

Station No.	Parameter	Measured Level (Leq dB(A))	Baseline Level (Leq dB(A))	Construction Noise Level (Leq dB(A))	Action Level	Limit Level (Leq dB(A))	Level exceeded			
NM7 (Garden Villa)	Construction Noise	80.6*	59.0	80.6	When one documented complaint is received	75.0	Limit			
Construc	(a) Statement of exceedance(s) Construction noise at NM7 (Garden Villa) exceeded the Limit level.									
1. Nois nois 2. Con	noise source.									
(c) Action red N/A	(c) Action required under the action plan N/A									
(d) Action taken under the action plan										
N/A										
(e) ET's conclusions and recommendations for mitigation										
The exceedance was not due to the R8-ENT Project and no further action is required.										