

Lam Geotechnics Limited

Contract No. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2) Quarterly EM&A Report (June 2015 - August 2015)

CONTRACT NO: HK/2011/07

WANCHAI DEVELOPMENT PHASE II AND CENTRAL WANCHAI BYPASS SAMPLING, FIELD MEASUREMENT AND TESTING WORK (STAGE 2)

ENVIRONMENTAL PERMIT NO. EP-356/2009, FURTHER EVIRONMENTAL PERMIT NOS. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009 FEP-06/356/2009 AND FEP-07/356/2009

QUARTERLY ENVIRONMENTAL MONITORING AND AUDIT REPORT

- JUNE 2015 TO AUGUST 2015 -

CLIENTS:

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and

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DATE:

2-2 September 2015

Raymond Dai Environmental Team Leader



Ref.: AACWBIECEM00_0_7199L.15

29 September 2015

By Post and Fax (2691 2649)

AECOM Asia Company Limited Engineer's Representative's Office 25 Hung Hing Road, Causeway Bay, Hong Kong

Attention: Mr. Peter Poon

Dear Sirs,

Re: Wan Chai Development Phase II and Central-Wan Chai Bypass

Quarterly EM&A Report (June to August 2015) for EP-356/2009, FEP-02/356/2009. FEP-03/356/2009, FEP-04/356/2009, FEP-06/356/2009 and FEP-07/356/2009

Reference is made to the Environmental Team's submission of the captioned Quarterly Environmental Monitoring and Audit (EM&A) Report for June to August 2015 received by e-mail on 22 September 2015.

Please be informed that we have no adverse comment on the captioned submission and thereby write to verify the captioned submission.

Thank you very much for your kind attention and please do not hesitate to contact the undersigned should you have any queries.

Yours sincerely,

David Yeung Independent Environmental Checker

Encl.

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EXECUTIVE SUMMARY

i. This is the Quarterly Environmental Monitoring and Audit (EM&A) Report – June 2015 to August 2015 prepared for the Project of Wan Chai Development Phase II and Central-Wanchai Bypass under Environmental Permit no. EP-356/2009 and Further Environmental permit nos. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-06/356/2009 and FEP-07/356/2009. This report presents the environmental monitoring and audit findings and information during the period from June 2015 to August 2015. The cut-off date of reporting is at 27th of each reporting period.

Construction Activities for the Reported Period

ii. During this reporting period, the principal work activities for Contract no. HK/2009/01 are summarized as below:

Table I	Principal Work Activities for Contract no. HK/2009/01
I able I	Principal Work Activities for Contract no. http://work

June 2015	July 2015	August 2015
• Nil	• Nil	• Nil

iii. During this reporting period, the principal work activities for Contract no. HK/2009/02 are summarized as below:

June 2015	July 2015	August 2015
• Nil	Excavation and trimming	Placing levelling stone for
	trenches for caisson	construction of seawall at
	seawall at WCR3	WCR3
	Rock filling works at	Rock filling works at
	WCR3	WCR3

Table II Principal Work Activities for Contract no. HK/2009/02

iv. Contract no. HY/2009/15 was commenced on 10 November 2010. During this reporting period, the principal work activities for Contract no. HY/2009/15 are summarized as below:

Table III Principal Work Activities for Contract no. HY/2009/15

	June 2015		July 2015		August 2015
•	Reinstatement of vertical	•	Reinstatement of vertical	•	Reinstatement of vertical
	seawall at TPCWAE		seawall at TPCWAE		seawall at TPCWAE
•	Dredging work near Noon				
	Day Gun				

v. Contract no. HY/2009/19 was commenced on 24 March 2011. During this reporting period, the principal work activities for Contract no. HY/2009/19 are summarized as below:

Table IVPrincipal Work Activities for Contract no. HY/2009/19

	June 2015	July 2015	August 2015
• Nil		• Nil	• Nil



vi. Contract no. HK/2012/08 was commenced on 5 March 2013. During this reporting period, the principal work activities for Contract no. HK/2012/08 are summarized as below:

Table V	Principal Work Activities for Contract no. HK/2012/08
1 41010	

	June 2015		July 2015		August 2015
•	Removal of rock armour	•	Dry dock construction	•	Dry dock construction
•	Dry dock construction	•	Installation of pipe pile wall	•	Installation of pipe pile wall
•	Installation of pipe pile	•	Removal of temporary	•	Removal of temporary
	wall		piling platform for culvert		piling platform for culvert
•	Removal of temporary		diversion		diversion
	piling platform for culvert diversion	•	Construction of culvert	•	Construction of culvertl
•	Construction of culvert				

vii. Contract no. HY/2010/08 was commenced on 21 March 2013. During this reporting period, the principal work activities for Contract no. HY/2010/08 are summarized as below:

Table VI	Principal Work Activities for Contract no. HY/2010/08
	Principal Work Activities for Contract no. n 1/2010/06

June 2015	July 2015	August 2015
Rock filling works	Diversion pipe	Diversion pipe
Pre-treatment works	maintenance	maintenance
Bar fixing works		
ELS works		
Diaphragm Wall, Barrette		
construction and King		
Post installation works		
Slurry and fill disposal		
works		

Noise Monitoring

- viii. Noise monitoring during day time and evening time were conducted at the M1a, M2b, M3a, M4b, M5b and M6 on a weekly basis in the reporting period. The Action and Limit level exceedances recorded in the reporting period are listed below. Investigation found that exceedances were not related to the Project. Investigation found that exceedances were not related to the Project.
- ix. Three limit level exceedances at M6 HK Baptist Church Henrietta Secondary School were recorded on 5, 9 and 16 June 2015 in June reporting month. The exceedances were concluded as non-Project works.
- x. No action and limit level exceedance was recorded in July reporting month.
- xi. No action and limit level exceedance was recorded in August reporting month.



Real-time Noise Monitoring

- xii. As the land-based piling and filling works- DP3 at Tin Hau had been completed on 3 September 2012 and confirmed by RSS, the real-time noise monitoring results at FEHD Hong Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.
- xiii. Real-time noise monitoring at FEHD Hong Kong Transport Section Whitefield Depot and Oil Street Community Centre have been commenced on 5 October 2010 for the filling works of Contract no. HY/2009/11.
- xiv. Real-time noise monitoring at FEHD Hong Kong Transport Section Whitefield Depot commenced external wall renovation since 1 June 2012
- xv. Oil Street Community Liaison Centre was confirmed to be demolished in mid-October by CWB RSS. This presented a need for relocation of RTN2 – Oil Street Community Liaison Centre. After liaison with Hong Kong Electric, permission was granted on 21 Sep 2012 for real time noise monitoring set up at City Garden Electric Centre (RTN2a – Electric Centre), which is a representative of the noise sensitive receiver City Garden. The real-time noise monitoring at RTN2-Oil Street Community Liaison Centre has been relocated to City Garden Electric Centre (RTN2a- Electric Centre) on 5 Oct 2012. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted in Electric Centre from 4 December 2009 to 17 December 2009.
- xvi. No project related exceedance was recorded in June reporting months at RTN2a-Hong Kong Electric Centre.
- xvii. No limit level exceedance was recorded in July reporting month at RTN2a-Hong Kong Electric Centre.
- xviii. No limit level exceedance was recorded in August reporting month at RTN2a-Hong Kong Electric Centre.

Air Quality Monitoring

- xix. Due to electricity interruption, the following 24hr and 1hr TSP monitoring events were rescheduled in this reporting quarter,
 24hr TSP monitoring at CMA4a was rescheduled from 18 June 2015 to 19 June 2015
 24hr TSP monitoring at CMA1b was rescheduled from 4 and 10 July 2015 to 6 and 11 July 2015 respectively.
 24hr TSP monitoring at CMA3a was rescheduled from 29 June 2015 to 30 June 2015.
 24hr TSP monitoring at CMA6a was rescheduled from 29 June 2015 to 30 June 2015.
 24hr TSP monitoring at CMA6a was rescheduled from 29 June 2015 to 30 June 2015.
 24hr TSP for CMA1b was rescheduled from 28 July 2015 and 26 August 2015 to 29 July 2015 and 27 August 2015 respectively.
 24hr TSP for CMA6a was rescheduled from 26 August 2015 to 29 August 2015.
 1hr TSP for CMA6a was rescheduled from 27 August 2015 to 28 August 2015.
 xx. There were no action level and limit level exceedance of air quality monitoring recorded in
- June reporting month. xxi. There were no action level and limit level exceedance of air quality monitoring recorded in July reporting month.

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- xxii. One action level exceedance during 24hr TSP monitoring was recorded at monitoring station
 CMA2a Causeway Bay Community Centre on 26 August 2015 in August reporting month.
 Investigation found that the exceedance recorded was not related to the Project.
- Two action level exceedances during 1hr TSP monitoring was recorded at monitoring station
 CMA2a Causeway Bay Community Centre on 27 August 2015 in August reporting month.
 Investigation found that the exceedance recorded was not related to the Project.
- xxiv. The odour patrol along the odour route with 7 sniffing locations was conducted by a qualified odour patrol member on 7 and 21 July 2015 at the concerned hours (afternoon for higher daily temperature). No Action and Limit Level was recorded during July reporting month.
- xxv. The odour patrol along the odour route with 7 sniffing locations was conducted by a qualified odour patrol member on 4 and 18 August 2015 at the concerned hours (afternoon for higher daily temperature). No Action and Limit Level was recorded during August reporting month.
- xxvi. The location ID of air monitoring station CMA1b was updated as Oil Street Site Office in April 2013.
- xxvii. With respect to the area handover, the air quality monitoring station CMA5a at Children Playgrounds opposite to the Pedestrian Plaza was relocated to the Pedestrian Plaza on 3 December 2014. The station reference and location ID of the air quality monitoring station CMA5a was updated as CMA5b and Pedestrian Plaza respectively.
- xxviii. 1hr and 24hr TSP monitoring were conducted at CMA1b, CMA2a, CMA3a, CMA4a, CMA5b and CMA6a in the reporting period.

Water Quality Monitoring

- xxix. Action and Limit level of water quality monitoring was transited from dry season to wet season from 1 April 2015.
- xxx. With respect to the construction stage and access condition at Ex-PCWAW and the potential DO concern within the area, the suspended Enhance DO monitoring within Ex-PCWAW area at the Enhance DO monitoring station Ex-PCWA-SE was resumed on 10 August 2015 at the finely adjusted monitoring location.
- xxxi. Due to the hoisting of amber rainstorm warning signal, the water quality monitoring on 22 July 2015 during flood tide and ebb tide were cancelled.
- xxxii. With respect to the maintenance works for the diverted seawater supply system to Windsor House Cooling water intake and the suspension of seawater supply to Windsor House from the water storage tank for water quality sampling from 7 July 2015 to 13 July 2015. The respective water quality monitoring at WQM station C7 was cancelled on 8 July 2015 and was temporarily suspended from 9 July 2015 to 13 July 2015. The aforesaid monitoring station was resumed on 15 July 2015 upon completion of the maintenance works.
- xxxiii. With respect to the water pipe modification works and the suspension of water supply to Windsor House from the water storage tank for water quality sampling, the water quality monitoring station C7 was cancelled on 10 June 2015 during flood tide.
- xxxiv. With respect to the water pipe modification works conducted for the diverted seawater supply system to the Windsor House Cooling water intake and the suspension of water supply to Windsor House from the water storage tank for water quality sampling, the respective water quality monitoring at WQM station C7 was temporarily suspended from 12 June 2015. The water quality monitoring at WQM station C7 has resumed on 17 June 2015 upon completion of the water pipe modification works.



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- xxxv. With respect to the construction works undertaken at Ex-PCWAW and the forthcoming wet season DO concern, the suspended Enhance DO monitoring within Ex-PCWAW area at the Enhance DO monitoring station Ex-PCWA-SW was resumed on 30 March 2015 at the finely adjusted monitoring location.
- xxxvi. With respect to the commencement of seawall modification works at Ex-PCWAE and the location of the Enhance DO monitoring stations would form an active construction area, the Enhance DO monitoring at monitoring station EX-PCWA SW and SE were temporarily suspended from 2 March 2015 ebb tide and the monitoring at the location is tentatively to be resumed by early April 2015 to cater for the potential DO concern during Wet Season.
- xxxvii. As informed by CWB RSS, the operation of the diverted Windsor House cooling intake was commenced on 20 Dec 2014 and the water quality monitoring at monitoring station C7 for Windsor House Cooling water intake was resumed on 22 Dec 2014.
- xxxviii. Water quality monitoring was conducted at 8 monitoring stations namely WSD19, C1, C7, P1, P3, P4, P5 and RW21-P789 during the reporting period.
- xxxix. There were no action level and 1 limit level of turbidity exceedance recorded, and no action and 1 limit level of suspended solid exceedance recorded in June reporting month. Investigation found that the exceedances were not related to Project works.
 - xl. There was no action and 1 limit level of turbidity exceedance recorded in July reporting month. Investigation found that the exceedance was not related to Project works.
 - xli. There was no action and no limit level of exceedance recorded in August reporting month.
 - xlii. Enhanced DO monitoring at 4 monitoring stations in Causeway Bay Typhoon Shelter and Ex-Public Cargo Works Area was conducted three days per week during the reporting period.
 - xliii. There were 2 action level and 3 limit level exceedances of enhanced dissolved oxygen recorded in June reporting month. Investigation found that the exceedance was not related to Project works.
 - xliv. There were no action level and 4 limit level exceedances of enhanced dissolved oxygen recorded in July reporting month. Investigation found that the exceedances were not related to Project works.
 - xlv. There were 4 action level and 7 limit level exceedances of enhanced dissolved oxygen recorded in August reporting month. Investigation found that the exceedances were not related to Project works.
 - xlvi. With respect to the commencement of temporary reclamation works and seawall construction at Ex-PCWAW zone and diverted culvert extension, the location of the Enhance DO monitoring stations (Ex-PCWASW and Ex-PCWA SE) were finely adjusted to the PCWAE since 7 November 2014.
- xlvii. With respect to the commencement of marine dredging works at WCR3 under contract HK/2009/02. The respective water quality monitoring station C1 were associated with HK/2009/01 and HK/2009/02.
- xlviii. As confirmed by CWB RSS, the operation of the pump station for Windsor House Cooling Water was suspended from 22 Oct 2014 for the Windsor House intake cooling intake scheme and temporary supply of freshwater from WSD water mains was provided to cooling water intake The water quality monitoring for the respective cooling water intake at WQM station C7 was temporarily suspended from 22 Oct 2014.



- xlix. With respect to the commencement of filling works at TS3 and the formation of TZ3 reclamation zone, the enhance DO monitoring at Enhance monitoring station C7 was temporarily suspended from 22 Oct 2014.
 - As confirmed by WDII RSS and IEC, the cross harbor dredging works have completed since 16 March 2012 while the dredging works for submarine outfall pipeline has completed since 29 November 2011, considering current construction stage and dredging Scenario, the water quality monitoring at stations WSD9 and WSD17 was temporarily suspended since 8 September 2014 flood tide.
 - Ii. As advised by WDII RSS, the water quality monitoring for WSD21 pump station with respect to HK/2009/02 was switched over to the relocated location since 12 March 2014. According to the EM&A Manual, the water quality monitoring station WSD21 was relocated to station RW21-P789 and the water quality monitoring at station WSD21 was temporarily suspended since 12 March 2014.
 - Iii. With respect to the switching over of cooling water intake location, the water quality monitoring at the relocated intake station RW21-P789 under HK/2009/02 was commenced since 29 July 2013 and monitoring station C5e and C5w were temporarily suspended and switched over to monitoring station RW21-P789 on 29 July 2013 due to suspension of pump house operation.
- liii. With respect to the commencement of dredging works under HK/2012/08 and the installation of MTR precast protection unit, the enhanced water quality monitoring for Culvert L was temporarily suspended since 24 July 2013.
- liv. With respect to the commencement of marine dredging works under contract HY/2010/08. The respective water quality monitoring station C7 were associated with HY/2009/15 and HY/2010/08.
- Iv. With respect to the commencement of marine dredging works under contract HK/2012/08/ The respective water quality monitoring station WSD19, P1, P3, P4, and P5 were associated with Contract HK/2012/08 Since September 2013.
- Ivi. WQM events on 22 April 2013 at monitoring stations C2, C3, C4e and C4w were temporarily suspended. Upon confirmation with WDII RSS and the IEC, water quality monitoring at relocated intakes monitoring location P1, P3, P4 and P5 were commenced since 24 April 2013.
- Ivii. Due to the marine piling under Contract no. HY/2009/19 was completed on 4 March 2013, the temporary suspension of impact water quality monitoring at C8 and C9 from 4 March 2013 have been monitored for 4-week period after the completion of marine works to confirm no water deterioration.
- Iviii. As confirmed by CWB RSS, the marine pilling works under contract HY/2009/19 was confirmed completed by 4 March 2013. The water quality monitoring at the respective monitoring stations C8 and C9 were temporarily suspended since 30 March 2013.
- lix. RSS confirmed that all Type III Dredging works under HK/2009/01 have been completed since Oct 2012.
- Ix. Due to the presence of obstacle within the inner silt curtain frame at sampling point, water quality point at C7 was finely adjusted to the outside of the inner silt curtain frame since 29 Dec 2012.
- Ixi. With respect to the trial dredging at WCR2 was scheduled on 20, 22, 24, 25 March and 1, 3, 11, 13, 15, 17, 19, 20 Apr and 3 May 2012, on-going water quality monitoring results at



WSD21 during this period was checked and indicated that there was no contribution due to the trial dredging operation. Enhanced review of water quality around WCR2 was also implemented and no deterioration in the water quality was observed.

- Ixii. Due to the access of water monitoring station at WSD19 was blocked by LCSD construction works from 3 April 2012 to 2 May 2012 and lead to the inaccessibility of sampling either land and marine, there is a fine adjustment of the sampling point of WSD 19 since 5 April 2012 to the closest accessible point prior to the completion of the construction activities.
- Ixiii. WDII/RSS advised that the dredging works for submarine pipeline at Victoria Harbour had been completed in January 2012. Therefore, the concurrent dredging activities at Sewage Pipeline Zone and reclamation shoreline zone TCBR under the EP-356/2009 scenario 2B no longer exist. As such, with reference to Table 5.39 of the EIA Report for Wan Chai Development Phase II and Central-Wan Chai Bypass, the application of silt screen for cooling water intakes for Queensway Government Offices was suspended and the others remain unchanged.
- Ixiv. Due to the dredging works for Cross Harbour Water Mains from Wan Chai to Tsim Sha Tsui-DP6 was completed on 26 March 2012, the temporary suspension of impact water quality monitoring at WSD7 and WSD20 after 27 April 2012 for the water quality monitoring at WSD7 and WSD20 have been monitored for 4-week period after the completion of DP6 to confirm no water deterioration. Water quality monitoring at WSD10 and WSD15 was temporary suspended while water quality monitoring at WSD9 and WSD17 was implemented with respect to HK/2009/02 from 8 Feb 12 onwards;
- Ixv. Based on the joint inspection on 4 Jan 2012 for the NPR area, the 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8, C9 to confirm no water deterioration with respect to NPR was commenced since 7 Jan 2012 and it was completed on 6 February 2012.
- Ixvi. Based on the safety concern when external façade refurbishment was conducted by contractor employed by Provident Centre (C9) between 9 January 2012 to 30 July 2012 which caused to the inaccessibility of sampling either land and marine since 3 Feb 2012, there is a fine adjustment of the sampling location of water quality monitoring at C9 since 10 March 2012 to the closest accessible point prior to the completion of the external façade refurbishment work.
- Ixvii. Water quality monitoring at C8 and C9 have been implemented with respect to HY/2009/19 since the marine bore piling work started on 28 Jan 12.
- Ixviii. In response to the Condition 2.18 of the Environmental Permit no. EP-356/2009 requiring that a silt curtain / impermeable barrier system be installed to channel water discharge flow from Culvert L to locations outside the embayment area, a proposed replacement of the requirement with additional dissolved oxygen monitoring has been conducted at three monitoring stations, namely A, B and C between the eastern seawall of Central Reclamation Phase III and the HKCEC Extension since November 2011 under EP-356/2009 so that DO level between the eastern seawall of Central Reclamation Phase II and the HKCEC extension could be continuously monitored.

Complaints, Notifications of Summons and Successful Prosecutions

Ixix. There was one environmental complaint received in June reporting months.



Ixx. The public complaint regarding dark smoke and malodour concern referred by EPD was received by ET on 22 June 2015 (EPD Ref.: H05/RS/00015054-15 dated 22 June 2015). The complainant reported that dark smoke and malodour emission was observed from a hopper barge moored near shore and other construction plants under operation from the reclamation construction site with Contract no. HK/2009/02 at location outside Wan Chai Sports Ground caused air pollution. The complainant alleged that the said situation had been observed for a prolonged period.

ET confirmed with the Resident Site Staff that reinforced bar fixing and concreting work (on 17 June 2015 only) were conducted at Portion 2 from 15 June 2015 to 19 June 2015. Total 3 nos. of mobile crane were in operation. On 17 June 2015, one no. of concrete pump truck and two nos. of concrete mixer were in operation. Excavation and Lateral Support was conducted at Portions 3 & 4 from 15 June 2015 to 19 June 2015. Total 4 nos. of excavator, 2 nos. of truck and 2 nos. of crawler crane were in operation. In addition, on 15 June 2015, 17 June 2015 and 19 June 2015, 1 no. of derrick barge was moored near Portions 3 & 4 for transportation of the excavated material away from site.

According to the relevant site records under Contract HK/2009/02, from 15 June 2015 to 19 June 2015, reinforced bar fixing and concreting work (on 17 June 2015 only) were conducted at Portion 2 and total 3 nos. of mobile crane, one no. of concrete pump truck (on 17 June 2015 only) and two nos. of concrete mixer (on 17 June 2015 only) were in operation; excavation and lateral support was conducted at Portions 3 & 4 and total 4 nos. of excavator, 2 nos. of truck and 2 nos. of crawler crane were in operation. Based on relevant site record, no hopper barge was moored under Contract HK/2009/02 around the concerned location while 1 no. of derrick barge was moored under Contract HK/2009/02 near Portions 3 & 4 for transportation of the excavated material from Portions 3 & 4 away from site on 15 June 2015, 17 June 2015 and 19 June 2015 respectively.

Follow-up inspection was conducted during weekly environmental inspection on 25 June 2015, no dark smoke and malodour emission was observed from the PMEs operating on-site. A derrick barge was observed moored near Portions 3 & 4 and excavated material was transferred to the derrick barge by the excavators on land without barge operation and no particular dark smoke and malodour emission was observed. Nevertheless, the Contractor was reminded to conduct regular checking on the condition of the derrick barge and other PMEs deployed on site to ensure only well maintained PMEs are used to avoid potential dark smoke and maldour emission affecting nearby public

- Ixxi. There was one environmental complaint received in July reporting month.
- Ixxii. A public complaint regarding malodour referred by EPD was received by ET on 23 July 2015 (EPD Ref.: H05/RS/00018040-15 dated 23 July 2015).

The complainant reported that malodour from marine sediment was scented at ex-Wanchai ferry pier near route 720 & 722 bus stop. (Contract HK/2009/02). ET confirmed with the Resident Site Staff that Rockfill placing works was conducted by one derrick barge at the



concerned location (WCR3) under Contract HK/2009/02 on 20 July 2015. No marine sediment was stored or placed on site at the concerned location under Contract HK/2009/02 on 20 July 2015.

According to the relevant site records under Contract HK/2009/02, rockfill placing works was conducted by one derrick barge at WCR3 area on 20 July 2015 and no marine sediment was stored or placed on site at the concerned location on the concerned date.

Follow-up inspection was conducted during weekly environmental inspection on 29 July 2015. No marine sediment was observed stored or placed at the concerned location while it was noted that a culvert outfall with potential odour concern is located adjacent to the concerned location.

Nevertheless, the Contractor was reminded to review the handling procedures in case of any future marine sediment handling at the concerned location and to consider the implementation of mitigation measures as appropriate to minimize potential malodour impact to nearby public.

Ixxiii. There was no environmental complaint received in August reporting month.



1. INTRODUCTION

1.1 Scope of the Report

- 1.1.1. Lam Geotechnics Limited (LGL) has been appointed to work as the Environmental Team (ET) under Environmental Permit no. EP-356/2009 and Further Environmental permit nos. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-06/356/2009 and FEP-07/356/2009 to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) and in the EM&A Manual of the approved EIA Report for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-041/2001).
- 1.1.2. This report presents the environmental monitoring and auditing work carried out in accordance to the Section 10.4 of EM&A Manual and "*Environmental Monitoring and Audit Requirements*" under Particular Specification Section 27.
- **1.1.3.** This report documents the finding of EM&A works during the period from June 2015 to August 2015.

1.2 Structure of the Report

- **Section 1** *Introduction* details the scope and structure of the report.
- Section 2 *Project Background* summarizes background and scope of the project, site description, project organization and contact details of key personnel during the reporting period.
- Section 3 *Monitoring Requirements* summarizes all monitoring parameters, monitoring locations, monitoring frequency, duration and action plan.
- **Section 4** *Monitoring Results* summarizes the monitoring results obtained in the reporting period.
- Section 5 Compliance Audit summarizes the auditing of monitoring results, all exceedances environmental parameters.
- Section 6 *Complaints, Notification of summons and Prosecution* summarizes the cumulative statistics on complaints, notification of summons and prosecution
- Section 7 Cumulative Construction Impact due to the Concurrent Projects summarizes the relevant cumulative construction impact due to the concurrent activities of the concurrent Projects.

Section 8 Conclusion



2. PROJECT BACKGROUND

2.1 Background

- 2.1.1. "Wan Chai Development phase II and Central-Wan Chai Bypass" and "Central-Wan Chai Bypass and Island Eastern Corridor Link" (hereafter called "the Project") are Designed Project (DP) under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). The Environmental Impact Assessment (EIA) Reports for Central-Wan Chai Bypass and Island Eastern Corridor Link (Register No. AEIAR-041/2001) and Wan Chai Development phase II and Central-Wan Chai Bypass (Register No.: AEIAR-125/2008) have been approved on 31 August 2001 and 11 December 2008 respectively.
- 2.1.2. The key purpose of Wan Chai Development Phase II (WDII) is to provide land at Wan Chai North and North Point for construction of the Central-Wan Chai Bypass and Island Eastern Corridor Link (CWB). Land formed under the project will be developed as a world-class waterfront promenade joining that at the new Central waterfront for public enjoyment.
- 2.1.3. There is a compelling and present need for the CWB to provide relief to the very congested east-west Connaught Road Central/Harcourt Road / Gloucester Road Corridor (the Corridor) which is currently operating beyond its capacity. The CWB will provide relief to the existing congestion along the Corridor and cater for the anticipated growth of traffic on Hong Kong Island. Without the CWB and its access roads, there will not be sufficient capacity to serve the heavy traffic demands at both strategic and local levels.

2.2 Scope of the Project and Site Description

- 2.2.1. The Project is located mainly in Wan Chai North, Causeway Bay and North Point, and is demarcated by Gloucester Road and Victoria Park Road to the south, Fenwick Pier Street to the west and Tong Shui Road Interchange to the east, as shown in *Figure 2.1*.
- 2.2.2. The study area encompasses existing developments along the Wan Chai, Causeway Bay and North Point shorelines. Major land uses include the Hong Kong Convention & Exhibition Centre (HKCEC) Extension, the Wan Chai Ferry Pier, the ex-Wan Chai Public Cargo Working Area (ex-PCWA), the Royal Hong Kong Yacht Club (RHKYC), the Police Officers' Club, the Causeway Bay Typhoon Shelter (CBTS) and commercial and residential developments.
- 2.2.3. The scope of the Project comprises:
 - Land formation for key transport infrastructure and facilities, including the Trunk Road (i.e. CWB) and the associated slip roads for connection to the Trunk Road and for through traffic from Central to Wan Chai and Causeway Bay. The land formed for the above transport infrastructure will provide opportunities for the development of an attractive waterfront promenade for the enjoyment of the public
 - Reprovisioning / protection of the existing facilities and structures affected by the land formation works mentioned above



- Extension, modification, reprovisioning or protection of existing storm water drainage outfalls, sewerage outfalls and watermains affected by the revised land use and land formation works mentioned above
- Upgrading of hinterland storm water drainage system and sewerage system, which would be rendered insufficient by the land formation works mentioned above
- Provision of the ground level roads, flyovers, footbridges, necessary transport facilities and the associated utility services
- Construction of the new waterfront promenade, landscape works and the associated utility services
- The Trunk Road (i.e. CWB) within the study area and the associated slip roads for connection to the Trunk Road.
- 2.2.4. The project also contains various Schedule 2 DPs that, under the EIAO, require Environmental Permits (EPs) to be granted by the DEP before they may be either constructed or operated. *Table 2.1* summarises the five individual DPs under this Project. *Figure 2.1* shows the locations of these Schedule 2 DPs.

14510 21	Table 2.1 Schedule 2 Designated Flojects under this Floject					
ltem	Designated Project	EIAO Reference	Reason for inclusion			
DP1	Central-Wanchai Bypass (CWB) including its road tunnel and slip roads	Schedule 2, Part I, A.1 and A.7	Trunk road and road tunnel more than 800 m in length			
DP2	Road P2 and other roads which are classified as primary/district distributor roads	Schedule 2, Part I, A.1	Primary / district distributor roads			
DP3	Reclamation works including associated dredging works	Schedule 2, Part I, C.1 and C.12	Reclamation more than 5 ha in size and a dredging operation less than 100 m from a seawater intake point			
DP5	Wan Chai East Sewage Outfall	Schedule 2, Part I, F.5 and F.6	Submarine sewage pipelines with a total diameter more than 1,200 mm and include a submarine sewage outfall			
DP6	Dredging for the Cross- harbour Water Mains from Wan Chai to Tsim Sha Tsui	Schedule 2, Part I, C.12	A dredging operation less than 100 m from a seawater intake point			

 Table 2.1
 Schedule 2 Designated Projects under this Project

2.3 Division of the Project Responsibility

2.3.1 Due to the multi-contract nature of the Project, the status of permits and/or licences under the individual contract(s) are presented as below:

<u>Contract no. HK/2010/06 – Wan Chai Development Phase II – Central – Wan Chai Bypass</u> over MTR Tsuen Wan Line under FEP-05/356/2009

2.3.2 The construction works were completed and the FEP-05/356/2009 was surrendered by the Contractor on 3 October 2014.



<u>Contract no. HY/2009/11 – Wan Chai Development Phase II – Central – Wan Chai Bypass -</u> North Point Reclamation

- 2.3.3 The construction works were completed and the FEP-01/356/2009 was surrendered by the Contractor on 22 October 2012.
- 2.3.4 Due to the multi-contract nature of the Project, there are a number of contracts sub-dividing the whole works area into different work areas to be commenced. Contractors of individual contracts will be required by the EP holder to apply Further Environmental Permits (FEP) such that the impact monitoring stations are sub-divided accordingly to facilitate the implementation of EM&A programme and to streamline the EM&A reporting for individual FEP holders correspondingly.
- 2.3.5 The details of individual contracts are summarized in *Table2.2*.

Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date
HK/2009/01	Wan Chai Development Phase II – Central –Wanchai Bypass at Hong Kong	DP3, DP6	23 July 2010
	Convention and Exhibition Centre		25 August 2011
HK/2009/02	Wan Chai Development Phase II – Central – Wan Chai Bypass at WanChai	DP3, DP5	5 July 2010
	East	DP1	26 April 2011
HY/2009/11	Wan Chai Development Phase II and Central – Wan Chai Bypass – North	DP3	17 March 2010
	Point Reclamation	DF3	(Completed)
HY/2009/15	Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter	DP3	10 November 2010
	Section)	DP1	13 July 2011
HK/2010/06	Wan Chai Development Phase II- Central-Wan Chai Bypass over MTR	DP3	22 March 2011
	Tsuen Wan Line	DF3	(Completed)
04/HY/2006	Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street	DP1	September 2010
			(Completed)
HY/2009/17	Central - Wan Chai Bypass (CWB) at FEHD Whitfield Depot - Advanced piling	DP1	5 October 2010
	works.		(Completed)
HY/2009/18	Central - Wan Chai Bypass (CWB) – Central Interchange	DP1	10 March 2014
HY/2009/19	Central - Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link	DP1	24 March 2011
HK/2012/08	Wan Chai Development Phase II Central- Wan Chai Bypass at Wan Chai West	DP1,DP2, DP3	5 March 2013
HY/2011/08	Central-Wan Chai Bypass (CWB) – Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning	DP1	8 October 2014

Table 2.2 Details of Individual Contracts under the Project



2.4 Project Organization and Contact Personnel

- 2.4.1. Civil Engineering and Development Department and Highways Department are the overall project controllers for the Wan Chai Development Phase II and Central-Wan Chai Bypass respectively. For the construction phase of the Project, Project Engineer, Contractor(s), Environmental Team and Independent Environmental Checker are appointed to manage and control environmental issues.
- 2.4.2. The proposed project organization and lines of communication with respect to environmental protection works are shown in *Figure 2.2*. Key personnel and contact particulars are summarized in *Table 2.3*:

Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	Engineer's Representative for WDII	Principal Resident Engineer	Mr. Frankie Fan	2587 1778	2587 1877
	Engineer's Representative for CWB	Principal Resident Engineer	Mr. Peter Poon	3912 3388	3912 3010
Chun Wo – Leader Joint	Contractor under Contract	Project Manager	Mr. Simon Liu	9304 8355	2587 1878
Venture	no. HK/2009/01	Site Agent	Mr. Andy Yu	9648 4896	
		Engineer Manager	Mr. Terry Wong	9757 9846	
		Construction Manager	Mr. Wyman Wong	9627 2467	
		Construction Manager	Mr. Kenneth Chan	9160 3850	
		Environmental Officer	Ms. Wendy Ng	9803 0057	
		Assistant Environmental Engineer	Miss. Connie Chan	6157 7057	
Chun Wo –	Contractor	Project Manager	Mr. Paul Yu	3658-3085	2827 9996
CRGL Joint Venture	under Contract no. HK/2009/02	Quality & Environmental Manager	Mr. C.P. Ho	9191 8856	
China State Construction Engineering	Contractor under Contract no. HY/2009/15	Project Director	Chris Leung	3557 6393	2566 2192
(HK) Ltd.		Site Manager	Y Huo	3557 6368	
		Contractor's Representative	Andrew Wong	3557 6358	-
		Contractor's Representative	Gene Cheung	3557 6395	
		Environmental Officer	Andy Mak	3557 6347	

 Table 2.3
 Contact Details of Key Personnel



Party	Role	Post	Name	Contact No.	Contact Fax
Chun Wo -	Contractor	Project Manager	David Lau	3758 8879	2570 8013
CRGL - MBEC_Joint Venture	under Contract no. HY/2009/19	Deputy Project Manager	William Luk	3757 8901	
		Environmental Manager / Environmental Officer	Eric Fong	6191 9337	
		Construction Manager (Marine)	M.H. Isa	9884 0810	
		Construction Manager (Land)	Andy Chan	9879 4325	
		Construction Manager (Land)	Bear Ding	6483 6198	
		Operation Manager (Land)	Yung Kwok Wah	9834 1010	
China State-	Contractor	Project Director	C. N. Lai	9106 5806	2877 1522
Leader JV	under Contract no. HK/2012/08	Project Manager	Eddie Chung	9189 8118	
		Site Agent	Keith Tse	9037 1839	
		Environmental Officer	James Ma	9130 9549	
		Environmental Supervisor	Y. L. Ho	9856 5669	
China State	Contractor	Project Director	Chris Leung	3467 4299	2566 8061
	under Contract no. HY/2010/08	Project Manager	Chan Ying Lun	3418 3001	
		Site Agent	Dave Chan	3467 4277	
		Environmental Officer	Gabriel Wong	35576466	
		Environmental Supervisor	Desmond Ho Tsz Ho	3557 6466	
ENVIRON Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	34652888	34652899
Lam Geotechnics Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331

2.5 Principal Work and Activities

2.5.1. During this reporting period, the principal work activities for Contract no. HK/2009/01 are summarized in *Table 2.4*.



ſ	June 2015	July 2015	August 2015
ĺ	• Nil	• Nil	• Nil

2.5.2. During this reporting period, the principal work activities for Contract no. HK/2009/02 are summarized in *Table 2.5*.

June 2015	July 2015	August 2015
• Nil	Excavation and trimming	Placing levelling stone for
	trenches for caisson	construction of seawall at
	seawall at WCR3	WCR3
	Rock filling works at	Rock filling works at
	WCR3	WCR3

Table 2.5 Principal Work Activities for Contract no. HK/2009/02

2.5.3. Major construction activities for Contract no. HY/2009/15 was commenced on 10 November 2010. During this reporting period, the principal work activities for Contract no. HY/2009/15 are summarized as below:

Table 2.6 Principal Work Activities for Contract no. HY/2009/15

	June 2015		July 2015		August 2015
•	Reinstatement of vertical	•	Reinstatement of vertical	•	Reinstatement of vertical
	seawall at TPCWAE		seawall at TPCWAE		seawall at TPCWAE
•	Dredging work near Noon				
	Day Gun				

2.5.4. Contract no. HY/2009/19 was commenced on 24 March 2011. During this reporting period, the principal work activities for Contract no. HY/2009/19 are summarized as below:

Table 2.7 Principal Work Activities for Contract no. HY/2009/19

June 2015	July 2015	August 2015
• Nil	• Nil	• Nil

2.5.5. Contract no. HK/2012/08 was commenced on March 2013. During this reporting period, the principal work activities for Contract no. HK/2012/08 are summarized as below:

 Table 2.8
 Principal Work Activities for Contract no. HK/2012/08

	June 2015		July 2015		August 2015
•	Removal of rock armour	•	Dry dock construction	•	Dry dock construction
•	Dry dock construction	•	Installation of pipe pile wall	•	Installation of pipe pile wall
•	Installation of pipe pile	•	Removal of temporary	•	Removal of temporary
	wall		piling platform for culvert		piling platform for culvert



	June 2015	July 2015	August 2015
•	Removal of temporary	diversion	diversion
	piling platform for culvert	Construction of culvert	Construction of culvertl
	diversion		
•	Construction of culvert		

2.5.6. Contract no. HY/2010/08 was commenced on 21 March 2013. During this reporting period, the principal work activities for Contract no. HY/2010/08 are summarized as below:

	June 2015	July 2015	August 2015
•	Rock filling works •	Diversion pipe	Diversion pipe
•	Pre-treatment works	maintenance	maintenance
•	Bar fixing works		
•	ELS works		
•	Diaphragm Wall, Barrette		
	construction and King		
	Post installation works		
•	Slurry and fill disposal		
	works		

Table 2.9 Principal Work Activities for Contract no. HY/2010/08

2.5.7. Implementation status of the recommended mitigation measures during this reporting period is presented in *Appendix 2.1*.



3. MONITORING REQUIREMENTS

3.1. Noise Monitoring

NOISE MONITORING STATIONS

3.1.1. The noise monitoring stations for the Project are listed and shown in *Table 3.1* and *Figure* <u>3.1</u>. <u>Appendix 3.1</u> shows the established Action/Limit Levels for the monitoring works.

Station	Description
M1a	Harbour Road Sports Centre
M2b	Noon Gun Area
МЗа	Tung Lo Wan Fire Station
M4b	Victoria Centre
M5b	City Garden
M6	HK Baptist Church Henrietta Secondary School

 Table 3.1
 Noise Monitoring Stations

REAL TIME NOISE MONITORING STATIONS

- 3.1.2. The real-noise monitoring stations for the Project are listed and shown in *Table 3.2* and *Figure 3.1*. *Appendix 3.1* shows the established Action/Limit Levels for the monitoring works.
- 3.1.3. The real-time noise monitoring at RTN2-Oil Street Community Liaison Centre has been relocated to City Garden Electric Centre (RTN2a- Electric Centre) on 5 Oct 2012, which is a representative of noise sensitive receiver- City Garden. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted in Electric Centre from 4 December 2009 to 17 December 2009.
- 3.1.4. As the land-based piling and filling works- DP3 at Tin Hau had been completed on 3 September 2012 and confirmed by RSS, the real-time noise monitoring results at RTN1 -FEHD Hong Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.

District	Station	Description		
North Point	RTN2	Oil Street Community Liaison Centre		
North Point	RTN2a	Electric Centre		

 Table 3.2
 Real Time Noise Monitoring Station

• Real time noise monitoring results and graphical presentation during night time period are for information only.

RTN2 had been relocated to RTN2a since 5 Oct 2012

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NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

- 3.1.5. The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (Leq). Leq (30 minutes) shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time periods, Leq (5 minutes) shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. Supplementary information for data auditing, statistical results such as L10 and L90 shall also be obtained for reference.
- 3.1.6. Noise monitoring shall be carried out at all the designated monitoring stations. The monitoring frequency shall depend on the scale of the construction activities. The following is an initial guide on the regular monitoring frequency for each station on a weekly basis when noise generating activities are underway:
 - one set of measurements between 0700 and 1900 hours on normal weekdays.
- 3.1.7. If construction works are extended to include works during the hours of 1900 0700 as well as public holidays and Sundays, additional weekly impact monitoring shall be carried out during respective restricted hours periods. Applicable permits under NCO shall be obtained by the Contractor.
- 3.1.8. Real time noise shall be carried out at the designated monitoring stations. The following is an initial guide on the regular monitoring frequency for each station on a 24 hours daily basis when noise generating activities are underway:
 - One set of measurements between 0700 and 1900 hours on normal weekdays.
 - One set of measurements between 1900 and 2300 hours on normal weekdays and 0700 and 2300 hours on public holidays.
 - One set of measurements between 2300 and 0700 hours on next day on everyday.

MONITORING EQUIPMENT

- 3.1.9. As referred to in the Technical Memorandum [™] issued under the NCO, sound level meters in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications shall be used for carrying out the noise monitoring. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration level from before and after the noise measurement agree to within 1.0 dB.
- 3.1.10. Noise measurements shall not be made in fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.



3.2. Air Monitoring

AIR QUALITY MONITORING STATIONS

3.2.1. The air monitoring stations for the Project are listed and shown in *Table 3.3* and *Figure 3.1*. *Appendix 3.1* shows the established Action/Limit Levels for the monitoring works.

Station ID	Monitoring Location	Description	
CMA1b	Oil Street Site Office**	North Point	
CMA2a	Causeway Bay Community Centre	Causeway Bay	
CMA3a	CWB PRE Site Office *	Causeway Bay	
CMA4a	Society for the Prevention of Cruelty to Animals	Wan Chai	
CMA5b	Pedestrian Plaza***	Wan Chai	
CMA6a	WDII PRE Site Office *	Wan Chai	

Table 3.3 Air Monitoring Stations

* Remarks: As per the ENPC meeting in January 2011, the monitoring stations CMA3a - Future CWB site office at Wanchai Waterfront Promenade and CMA6a - Future AECOM site office at Work Area were renamed as remark.

Remarks**: The location ID of monitoring station CMA1b was updated as "Oil Street Site Office" in April 2013.

Remarks***: The station ID and monitoring location was updated in December 2014 with respect to monitoring station relocation.

AIR MONITORING PARAMETERS, FREQUENCY AND DURATION

- 3.2.2. One-hour and 24-hour TSP levels should be measured to indicate the impacts of construction dust on air quality. The 24-hour TSP levels shall be measured by following the standard high volume sampling method as set out in the Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50), Appendix B.
- 3.2.3. All relevant data including temperature, pressure, weather conditions, elapsed-time meter reading for the start and stop of the sampler, identification and weight of the filter paper, and any other local atmospheric factors affecting or affected by site conditions, etc., shall be recorded down in detail.
- 3.2.4. For regular impact monitoring, the sampling frequency of at least once in every six-days, shall be strictly observed at all the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least three times in every six-days should be undertaken when the highest dust impact occurs.

SAMPLING PROCEDURE AND MONITORING EQUIPMENT

3.2.5 High volume samplers (HVSs) in compliance with the following specifications shall be used for carrying out the 1-hour and 24-hour TSP monitoring:



- 0.6 1.7 m3 per minute adjustable flow range;
- equipped with a timing / control device with +/- 5 minutes accuracy for 24 hours operation;
- installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;
- capable of providing a minimum exposed area of 406 cm2;
- flow control accuracy: +/- 2.5% deviation over 24-hour sampling period;
- equipped with a shelter to protect the filter and sampler;
- incorporated with an electronic mass flow rate controller or other equivalent devices;
- equipped with a flow recorder for continuous monitoring;
- provided with a peaked roof inlet;
- incorporated with a manometer;
- able to hold and seal the filter paper to the sampler housing at horizontal position;
- easily changeable filter; and
- capable of operating continuously for a 24-hour period.
- 3.2.6 Initial calibration of dust monitoring equipment shall be conducted upon installation and thereafter at bi-monthly intervals. The transfer standard shall be traceable to the internationally recognized primary standard and be calibrated annually. The concern parties such as IEC shall properly document the calibration data for future reference. All the data should be converted into standard temperature and pressure condition.

LABORATORY MEASUREMENT / ANALYSIS

- 3.2.7 A clean laboratory with constant temperature and humidity control, and equipped with necessary measuring and conditioning instruments to handle the dust samples collected, shall be available for sample analysis, and equipment calibration and maintenance. The laboratory should be HOKLAS accredited.
- 3.2.8 An alternative non-HOKLAS accredited laboratory was set-up for carrying out the laboratory analysis, the laboratory equipment was approved by the ER on 8 February 2011 and the measurement procedures were witnessed by the IEC. Any measurement performed by the laboratory was be demonstrated to the satisfaction of the ER and IEC. IEC shall regularly audit to the measurement performed by the laboratory to ensure the accuracy of measurement results.
- 3.2.9 Filter paper of size 8" x 10" shall be labelled before sampling. It shall be a clean filter paper with no pinholes, and shall be conditioned in a humidity-controlled chamber for over 24-hours and be pre-weighed before use for the sampling.
- 3.2.10 After sampling, the filter paper loaded with dust shall be kept in a clean and tightly sealed plastic bag. The filter paper shall then be returned to the laboratory for reconditioning in the humidity controlled chamber followed by accurate weighing by an electronic balance with readout down to 0.1 mg. The balance shall be regularly calibrated against a traceable standard.
- 3.2.11 All the collected samples shall be kept in a good condition for 6 months before disposal.



IMPACT MONITORING FOR ODOUR PATROL

- 3.2.12 Odour patrols along the shorelines of Causeway Bay Typhoon Shelter and ex-Wan Chai Public Cargo Working Area when there is temporary reclamation in Causeway Bay Typhoon Shelter and/or in the ex-Wan Chai Public Cargo Working Area, or when there is dredging of the odorous sediment and slime at the south-western corner of the Causeway Bay Typhoon Shelter. Odour patrols will be carried out at bi-weekly intervals during July, August and September by a qualified person of the ET who shall:
 - be at least 16 years of age;
 - be free from any respiratory illnesses; and
 - not be allowed to smoke, eat, drink (except water) or use chewing gum or sweets 30 min
 - before and during odour patrol
- 3.2.13 Odour patrol shall be conducted by independent trained personnel / competent persons patrolling and sniffing around the shore as shown in *Figure 3.1* to detect any odour at the concerned hours (afternoon is preferred for higher daily temperature).
- 3.2.14 The qualified person will use the nose (olfactory sensor) to sniff odours at different locations. The main odour emission sources and the areas to be affected by the odour nuisance will be identified.
- 3.2.15 The perceived odour intensity is to be divided into 5 levels which are ranked in the descending order as follows:
 - 0 Not detected. No odour perceived or an odour so weak that it cannot be easily characterized or described;
 - 1 Slight Identifiable odour, and slight chance to have odour nuisance;
 - 2 Moderate Identifiable odour, and moderate chance to have odour nuisance;
 - 3 Strong Identifiable, likely to have odour nuisance;
 - 4 Extreme Severe odour, and unacceptable odour level.
- 3.2.16 The findings including odour intensity, odour nature and possible odour sources, and also the local wind speed and direction at each location will be recorded. In addition, some relevant meteorological and tidal data such as daily average temperature, and daily average humidity, on that surveyed day will be obtained from the Hong Kong Observatory Station for reference. The Action and Limit levels for odour patrol are shown in *Appendix 3.1*.

3.3 Water Quality Monitoring

- 3.3.1. The EIA Report has identified that the key water quality impact would be associated with the dredging works during the construction phase. Marine water quality monitoring for dissolved oxygen (DO), suspended solid (SS) and turbidity is therefore recommended to be carried out at selected WSD flushing water intakes. The impact monitoring should be carried out during the proposed dredging works to ensure the compliance with the water quality standards.
- 3.3.2. The updated EM&A Manual for EP-356/2009 (Version in March 2011) is approval by EPD on 29 April 2011. As such, the Action Level and Limit Level for the wet season (April –



September) will be effected and applied to the water quality monitoring data from 30 April 2011.

Water Quality Monitoring Stations

3.3.3. It is proposed to monitor the water quality at 2 WSD salt water intakes and 7 cooling water intakes along the seafront of the Victoria Harbour. The proposed water quality monitoring stations of the Project are shown in *Table 3.4* and *Figure 3.1*. *Appendix 3.1* shows the established Action/Limit Levels for the monitoring works.

Station Ref.	Location	Easting	Northing	
WSD Salt Water Intake				
WSD19	Sheung Wan	833415.0	816771.0	
Cooling Water Inta	ike			
C1	HKCEC Extension	835885.6	816223.0	
C7	Windsor House	837193.7	816150.0	
P1	HKCEC Phase I	835774.7	816179.4	
P3	The Academy of performing Arts	835824.6	816212.0	
P4	Shui on Centre	835865.6	816220.0	
P5	Government Buildings (Wanchai Tower / Revenue Tower / Immigration Tower)		816215.2	
Cooling Water Intake / WSD Salt Water Intake				
RW21-P789 Great Eagle Centre/ Sun Hung Kai Centre/ WSD Wanchai salt water intake		836268.0	816020.0	

 Table 3.4
 Marine Water Quality Stations for Water Quality Monitoring

Remarks: - The cessation of seawater intake operation for C6 was confirmed on 17 May 2011, the water monitoring at C6 was then terminated since 17 May 2011.

- WSD9 and WSD17 were implemented with respect to HK/2009/02 from 8 Feb 2012.
- 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8, C9 were completed on 6 Feb 2012.
- C8 and C9 were implemented with respect to HY/2009/19 from 28 Jan 2012.
- C8 & C9 was temporary suspended on 30 March 2013 due to the marine works for Contract no. HY/2009/19 had been completed on 4 March 2013
- WSD7 and WSD20 were temporarily suspended from 27 Apr 2012
- C2, C3 C4e and C4w water quality monitoring station was temporarily suspended since 24 Apr 2013
- C5e and C5w water quality monitoring station was temporarily suspended since 29 July 2013
- WSD21 water quality monitoring station was temporarily suspended since 12 March 2014
- Maintenance responsibility of silt screen C1, WSD19, P3, P4 and P5 are under Contract HK/2009/01.
- WSD9 and WSD17 water quality monitoring station was temporarily suspended since 8 September 2014 flood tide.



WATER QUALITY PARAMETERS AND FREQUENCY

- 3.3.4. Monitoring of dissolved oxygen (DO), turbidity and suspended solids (SS) shall be carried out at WSD flushing water intakes and cooling water intakes. DO and Turbidity are measured insitu while SS is determined in laboratory.
- 3.3.5. In association with the water quality parameters, other relevant data shall also be measured, such as monitoring location/position, time, sampling depth, water temperature, pH, salinity, dissolved oxygen (DO) saturation, weather conditions, sea conditions, tidal stage, and any special phenomena and work underway at the construction site etc.
- 3.3.6. The interval between two sets of monitoring should not be less than 36 hours except where there are exceedances of Action and/or Limit Levels, in which case the monitoring frequency will be increased. *Table 3.5* shows the proposed monitoring frequency and water quality parameters. Duplicate in-situ measurements and water sampling should be carried out in each sampling event. For selection of tides for in-situ measurement and water sampling, tidal range of individual flood and ebb tides should be not less than 0.5m.

Activities	Monitoring Frequency ¹	Parameters ²
During the 4-week baseline monitoring period	Three days per week, at mid- flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity
During marine construction works	Three days per week, at mid- flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity
After completion of marine construction works	Three days per week, at mid- flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity

 Table 3.5
 Marine Water Quality Monitoring Frequency and Parameters

Notes:

- 1. For selection of tides for in-situ measurement and water sampling, tidal range of individual flood and ebb tides should be not less than 0.5m.
- 2. Turbidity should be measured in situ whereas SS should be determined by laboratory.

DISSOLVED OXYGEN AND TEMPERATURE MEASURING EQUIPMENT

- 3.3.7. The instrument should be a portable, weatherproof dissolved oxygen measuring instrument complete with cable, sensor, comprehensive operation manuals, and use a DC power source. It should be capable of measuring:
 - a dissolved oxygen level in the range of 0-20 mg/l and 0-200% saturation
 - a temperature of 0-45 degree Celsius
- 3.3.8. It should have a membrane electrode with automatic temperature compensation complete with a cable. Sufficient stocks of spare electrodes and cables should be available for replacement where necessary. (e.g. YSI model 59 meter, YSI 5739 probe, YSI 5795A submersible stirrer with reel and cable or an approved similar instrument).



3.3.9. Should salinity compensation not be build-in in the DO equipment, in-situ salinity shall be measured to calibrate the DO equipment prior to each DO measurement.

TURBIDITY MEASUREMENT INSTRUMENT

3.3.10 The instrument should be a portable, weatherproof turbidity-measuring instrument complete with comprehensive operation manual. The equipment should use a DC power source. It should have a photoelectric sensor capable of measuring turbidity between 0-1000 NTU and be complete with a cable (e.g. Hach model 2100P or an approved similar instrument).

SAMPLER

3.3.11 Water sampler comprises a transparent PVC cylinder, with a capacity of not less than 2 litres, and can be effectively sealed with latex cups at both ends. The sampler should have a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler is at the selected water depth (e.g. Kahlsico Water Sampler or an approved similar instrument).

SAMPLE CONTAINER AND STORAGE

3.3.12 Water samples for suspended solids measurement should be collected in high-density polythene bottles, packed in ice (cooled to 4°C without being frozen), and delivered to ALS Technichem (HK) Pty Ltd. as soon as possible after collection for analysis.

WATER DEPTH DETECTOR

3.3.13 A portable, battery-operated echo sounder shall be used for the determination of water depth at each designated monitoring station. This unit can either be handheld or affixed to the bottom of the workboat, if the same vessel is to be used throughout the monitoring programme.

<u>SALINITY</u>

3.3.14 A portable salinometer capable of measuring salinity in the range of 0-40 ppt shall be provided for measuring salinity of the water at each of monitoring location.

MONITORING POSITION EQUIPMENT

3.3.15 A hand-held or boat-fixed type digital Global Positioning System (GPS) with waypoint bearing indication or other equivalent instrument of similar accuracy shall be provided and used during monitoring to ensure the monitoring vessel is at the correct location before taking measurements.

CALIBRATION OF IN-SITU INSTRUMENTS

3.3.16 All in-situ monitoring instrument shall be checked, calibrated and certified by a laboratory accredited under HOKLAS or equivalent before use, and subsequently re-calibrated at 3 monthly intervals throughout all stages of the water quality monitoring. Responses of sensors and electrodes should be checked with certified standard solutions before each use. Wet bulb calibration for a DO meter shall be carried out before measurement at each monitoring location.



- 3.3.17 For the on site calibration of field equipment by the ET, the BS 127:1993, "Guide to Field and on-site test methods for the analysis of waters" should be observed.
- 3.3.18 Sufficient stocks of spare parts should be maintained for replacements when necessary. Backup monitoring equipment shall also be made available so that monitoring can proceed uninterrupted even when some equipment is under maintenance, calibration, etc.

LABORATORY MEASUREMENT / ANALYSIS

3.3.19 Analysis of suspended solids has been carried out in a HOKLAS accredited laboratory, ALS Technichem (HK) Pty Ltd. Water samples of about 1L shall be collected at the monitoring stations for carrying out the laboratory SS determination. The SS determination work shall start within 24 hours after collection of the water samples. The SS determination shall follow APHA 19ed or equivalent methods subject to the approval of IEC and EPD.

ENHANCED WATER QUALITY MONITORING IN THE EX-WAN CHAI PUBLIC CARGO WORKING AREA AND THE CAUSEWAY BAY TYPHOON SHELTER

- 3.3.20 The enhanced water quality monitoring and audit programme is to avoid aggravation of odour nuisance from seawater arising from temporary reclamation in the ex-Wan Chai Public Cargo Working Area and the Causeway Bay Typhoon Shelter.
- 3.3.21 Dissolved oxygen monitoring at the intakes C6 and C7 in Causeway Bay Typhoon Shelter when there is temporary reclamation in Causeway Bay Typhoon Shelter and at the south-western and south-eastern corners of the ex-Wan Chai Public Cargo Working Area. The proposed water quality monitoring stations of the Project are shown in *Table 3.6* and *Figure* <u>3.1.</u>

Station	Location
C6	Excelsior Hotel
C7	Windsor House
Ex-WPCWA-SW	South-western of the ex-Wan Chai Public Cargo Working Area
Ex-WPCWA-SE	South-eastern of the ex-Wan Chai Public Cargo Working Area

Table 3.6 Marine Water Quality Stations for Enhanced Water Quality Monitoring

3.3.22 The monitoring of dissolved oxygen are to be carried out 3 days per week, at mid-flood and mid-ebb tides for 3 water depths (1m below water surface, mid-depth and 1m above sea bed, except where the water depth less than 6m, the mid-depth may be omitted. If the water depth be less than 3m, only the mid-depth will be monitored).



DAILY SS MONITORING AND 24 HOURS TURBIDITY MONITORING SYSTEM

- 3.3.23 During dredging of the sediment at the south-western corner of the Causeway Bay Typhoon Shelter, daily monitoring of suspended solids and 24 hour monitoring of turbidity at the cooling water intakes (C6 and C7) shall be conducted.
- 3.3.24 The 24 hours monitoring of turbidty at the cooling water intakes (C6 and C7) shall be established by setting up a continuous water quality monitoring station in front of the intakes during the dredging activities. The monitoring system include the turbidity sensor and data logger which is capable of data capturing at every 5 minutes. The data shall be downloaded daily and compared with the Action and Limit level determined during the baseline water quality monitoring at the cooling water intake locations.

ADDITIONAL DISSOVLED OXYGEN MONITORING FOR CULVERT L WATER DISCHARGE FLOW

- 3.3.25 In response to the Condition 2.18 of the Environmental Permit no. EP-356/2009 requiring that a silt curtain / impermeable barrier system be installed to channel water discharge flow from Culvert L to locations outside the embayment area, a proposed replacement of the requirement with additional dissolved oxygen monitoring has been conducted at three monitoring stations, namely A, B and C between the eastern seawall of Central Reclamation Phase III and the HKCEC Extension since November 2011 under EP-356/2009 so that DO level between the eastern seawall of Central Reclamation Phase II and the HKCEC extension could be continuously monitored.
- 3.3.26 With respect to the commencement of dredging works under HK/2012/08 and the installation of MTR precast protection unit, the enhanced water quality monitoring for Culvert L was temporarily suspended since 24 July 2013
- 3.3.27 The monitoring of dissolved oxygen are to be carried out once per week, at mid-flood and mid-ebb tides for 3 water depths (1m below water surface, mid-depth and 1m above sea bed, except where the water depth less than 6m, the mid-depth may be omitted. If the water depth be equal to or less than 3m, only the mid-depth will be monitored).



4. MONITORING RESULTS

- 4.0.1. The environmental monitoring will be implemented based on the division of works areas of each designed project managed under different contracts with separate FEP applied by individual contractors. Overall layout showing work areas of various contracts, latest status of work commencement and monitoring stations is shown in <u>Figure 2.1</u> and <u>Figure 3.1</u>. The monitoring results are presented in according to the Individual Contract(s).
- 4.0.2 According to EP-364/2009/A Part B, "Scale and Scope of Designated Project", Remarks (c),"The permanent and temporary reclamation and associated dredging works related to the CWB construction are separately covered by environmental permit No. EP-356/2009 issued to Civil Engineering and Development Department", and marine piling works to be conducted by the Contractor of Contract no. HY/2009/19 from 28 January 2012 was considered to be governed under EP-356/2009. As the construction site area of Contract no. HY/2009/11 had already been handed over to Contract no. HY/2009/19, the designated noise, water and air quality monitoring stations for Contract no. HY/2009/11 would be shared with Contract no. HY/2009/19 from 28 January 2012.

4.1. Noise Monitoring Results

<u>Contract no. HK/2009/01 - Wan Chai Development Phase II – Central – Wanchai Bypass at</u> <u>HKCEC and Contract no. HK/2009/02 - Wan Chai Development Phase II – Central – Wan</u> <u>Chai Bypass at WanChai East</u>

4.1.1. The proposed divisions of noise monitoring stations are summarized in *Table 4.1* below.

Table 4.1	Noise Monitoring Station for Contract n	os. HK/2009/01 and HK/2009/02
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Station	Description
M1a	Harbour Road Sports Centre

4.1.2. No action or limit level exceedance was recorded in this reporting quarter.

Noise monitoring results measured in this reporting period are reviewed and summarized. Details of graphical presentation can be referred in *Appendix 4.1*.

<u>Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon</u> <u>Shelter Section)</u>

4.1.3. The noise monitoring for HY/2009/15 was commenced on 10 November 2010. The proposed division of noise monitoring stations are summarized in *Table 4.2* below.

Station	Description
M2b	Noon Gun Area
МЗа	Tung Lo Wan Fire Station

 Table 4.2
 Noise Monitoring Station for Contract nos. HY/2009/15

4.1.4. No action or limit level exceedance was recorded in this report quarter.



Noise monitoring results measured in this reporting period are reviewed and summarized. Details of graphical presentation can be referred in *Appendix 4.1*.

<u>Contract no. HY/2009/19 – Central- Wan Chai Bypass Tunnel (North Point Section) and</u> <u>Island Eastern Corridor Link</u>

- 4.1.5. Noise quality monitoring at M4b and M5b have been implemented with respect to HY/2009/19 since the marine bore piling work started on 28 Jan 2012.
- 4.1.6. The proposed division of noise monitoring stations for Contract no. HY/2009/19 are summarized in *Table 4.3* below:

Table 4 3	Noise	Monitorina	Stations t	for	Contract no.	HY/2009/19
1 abie 4.5	110136	wontoning	Stations		Contract no.	111/2009/19

Station	Description
M4b	Victoria Centre
M5b	City Garden
M6	HK Baptist Church Henrietta Secondary School

- 4.1.7. Three limit level exceedances were recorded at M6 monitoring station on 5, 9 and 16 June 2015 in June reporting month.
- **4.1.8.** Traffic noise was observed during monitoring on 5, 9 and 16 June 2015 and it was considered as the major noise contribution. As such, the limit level exceedances were concluded as non-project related.
- 4.1.9. No action or limit level exceedance was recorded in July reporting month.
- 4.1.10. No action or limit level exceedance was recorded in August reporting month.
- 4.1.11. Noise monitoring results measured in this reporting period are reviewed and summarized. Details of graphical presentation can be referred in *Appendix 4.1*.

Contract no. HY/2010/08-Central-Wanchi Bypass Tunnel (Slip Road 8 Section)

4.1.12. The proposed division of noise monitoring stations are summarized in **Table 4.4** below.

 Table 4.4
 Noise Monitoring Station for Contract no. HY/2010/08

Station	Description	
M2b	Noon Gun Area	
МЗа	Tung Lo Wan Fire Station	



- 4.1.13. No action or limit level exceedance was recorded in the reporting quarter.
- 4.1.14. Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in <u>Appendix</u> <u>4.1</u>.

4.2. Real Time Noise Monitoring Results

<u>Contract no. HY/2009/19 – Central- Wan Chai Bypass Tunnel (North Point Section) and</u> <u>Island Eastern Corridor Link</u>

- 4.2.1 As the land-based piling and filling works- DP3 at Tin Hau had been completed on 3 September 2012 and confirmed by RSS, the real-time noise monitoring results at FEHD Hong Kong Transport Section Whitfield Depot was excluded under EP-356/2009 since 28 November 2012.
- 4.2.2 The real-time noise monitoring at RTN2-Oil Street Community Liaison Centre has been relocated to City Garden Electric Centre (RTN2a- Electric Centre) on 5 Oct 2012, which is a representative of noise sensitive receiver- City Garden. The baseline noise level of RTN2a will adopt the results derived from the baseline noise monitoring conducted in Electric Centre from 4 December 2009 to 17 December 2009.
- 4.2.3 The major work activities for Contract no. HY/2009/11 was confirmed substantial complete by RSS on 4 January 2012. The construction site was handed over to contractor HY/2009/19 on 31 December 2011 and the FEP-01/356/2009 was surrendered on 22 Oct 2012.
- 4.2.4 Real-time noise monitoring at FEHD Hong Kong Transport Section Whitfield Depot commenced external wall renovation since 1 June 2012

District	Station	Description
North Point	RTN2a	Electric Centre

 Table 4.5
 Real Time Noise Monitoring Station for Contract no. HY/2009/19

• Real time noise monitoring results and graphical presentation during night time period are for information only.

• RTN2 had been relocated to RTN2a since 5 Oct 2012

- RTN1 monitoring had been finished on 28 Nov 2012
- 4.2.5 Limit level exceedances were recorded at RTN2a-Electric Centre during daytime on 23, 24 and 25 June 2015 during day time in June reporting month. After checking with Contractor of HY/2009/19, pile cap breaking works was conducted on 23 and 24 June 2015 and pile cap excavation works was conducted on 25 June 2015. Noise mitigation measures including temporary noise barrier was implemented by the Contractor while breaking works and excavation works was noted on-going at the construction site located next to the monitoring station. In view of the above, the exceedances were considered to be non-Project related and contributed by nearby non-CWB construction site works. Nevertheless, the Contractor was reminded to strengthen the noise mitigation measures implemented for the pile cap demolition works to avoid potential cumulative impact to nearby sensitive receivers.



- 4.2.6 No limit level exceedance was recorded in July reporting month.
- 4.2.7 No limit level exceedance was recorded in August reporting month.

4.3. Air Monitoring Results

4.3.1. 1hr and 24hr TSP monitoring were conducted at CMA1b, CMA2a, CMA3a, CMA4a, CMA5b and CMA6a in the reporting period.

<u>Contract no. HK/2009/01 - Wan Chai Development Phase II – Central – Wanchai Bypass at</u> <u>HKCEC</u>

4.3.2. Air monitoring was commenced on 1 April 2011 in response to the commencement of the land-filling work for Contract no. HK/2009/01. The proposed division of air monitoring stations are summarized in *Table 4.6* below.

Table 4.6	Air Monitoring	Stations for	Contract no	HK/2000/01
<i>i abie 4.0</i>	All WOILTOILING	Stations ior	Contract no.	HIV2009/01

Station	Description
CMA5b	Pedestrian Plaza
CMA6a	WDII PRE Site Office *

4.3.3. No action or limit exceedance was recorded in this reporting quarter.

<u>Contract no. HK/2009/02 - Wan Chai Development Phase II – Central – Wan Chai Bypass at</u> <u>WanChai East</u>

4.3.4. Air monitoring was commenced in mid-January 2011 for the land-filling work for Contract no. HK/2009/02. The proposed division of air monitoring stations is summarized in *Table 4.7* below.

 Table 4.7
 Air Monitoring Station for Contract no. HK/2009/02

Station	Description
CMA4a	Society for the Prevention of Cruelty to Animals

4.3.5. No action or limit level exceedance was recorded in March, April and May reporting month.

<u>Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon</u> <u>Shelter Section)</u>

4.3.6. Air monitoring was commenced on 15 March 2011 for the land filling work for Contract no. HY/2009/15. The proposed division of air monitoring stations are summarized in *Table 4.8* below.



Table 4.8	Air Monitoring Station for Contract no. HY/2009/15
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Station	Description
СМАЗа	CWB PRE Site Office

- 4.3.7. No action or limit exceedance was recorded in this reporting quarter.
- **4.3.8**. The odour patrol along the odour route with 7 sniffing locations was conducted by a qualified odour patrol member on 7 and 21 July 2015 at the concerned hours (afternoon for higher daily temperature). No Action and Limit Level was recorded during July reporting month.
- **4.3.9**. The odour patrol along the odour route with 7 sniffing locations was conducted by a qualified odour patrol member on 4 and 18 August 2015 at the concerned hours (afternoon for higher daily temperature). No Action and Limit Level was recorded during August reporting month.

Contract no. HY/2009/19 –Central- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link

- 4.3.10. Air monitoring at CMA1b and CMA2a have been implemented with respect to HY/2009/19 since the marine bore piling works started on 28 Jan 2012. No exceedance was recorded in the reporting period.
- 4.3.11. The proposed division of air monitoring stations is summarized in *Table 4.9* below.

Station	Description
CMA1b	Oil Street Site Office
CMA2a	Causeway Bay Community Centre

Table 4.9 Air Monitoring Stations for Contract no. HY/2009/19

- 4.3.12. No action or limit exceedance was recorded in June reporting month.
- 4.3.13. No action or limit exceedance was recorded in July reporting month.
- 4.3.14. One action level exceedance was recorded at monitoring station CMA2a on 26 August 2015 during 24hr TSP monitoring in August reporting month.
- 4.3.15. After investigation, it was found that external renovation at Causeway Bay Community Centre by non-CWB Contractor was the major contribution to air quality impact and no construction works with considerable dust impact was undertaken by the Contractor on the monitoring date. As such, the exceedance was considered as non-Project related.
- 4.3.16. Two action level exceedances were recorded at monitoring station CMA1a on 27 August 2015 during 1hr TSP monitoring in August reporting month.



4.3.17. After investigation, it was found that external renovation at Causeway Bay Community Centre by non-CWB Contractor was the major contribution to air quality impact and no construction works with considerable dust impact was undertaken by the Contractor on the monitoring date. As such, the exceedance was considered as non-Project related.

4.4 Water Monitoring Results

Contract no. HK/2009/01 - Wan Chai Development Phase II - Central - Wanchai Bypass at HKCEC

- 4.4.1. Water quality monitoring for Contract no. HK/2009/01 was commenced on 23 July 2010. The proposed division of water monitoring stations is summarized in Table 4.10 below.
- 4.4.2. Water quality monitoring station RW21-P789 has been implemented with respect to HK/2009/02 started on 29 July 2013.

Table 4.10 Water	Monitoring	Stations for	or Contract no.	HK/2009/01
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Station Ref.	Location	Easting	Northing	
Cooling Water Intake				
C1	HKCEC Extension	835885.6	816223.0	
Remarks [,]				

Remarks:

- The water monitoring stations for the dredging works under Contract No. HK/2009/01 should also include WSD9, WSD17, WSD 21 and C5 if water quality monitoring at these locations have not been carried out by others. Similarly, the water monitoring stations for the dredging works under Contract No. HK/2009/02 should also include WSD7, WSD9, WSD17, WSD 19, C1, C2, C3 and C4 if water guality monitoring at these locations have not been carried out by others.
- WSD7 and WSD20 water quality monitoring were temporarily suspended since 27 Apr 2012.
- C2, C3 C4e and C4w water quality monitoring station was temporarily suspended since 24 Apr 2013

Contract no. HK/2009/02 - Wan Chai Development Wan Chai Development Phase II -Central - Wan Chai Bypass at WanChai East

4.4.3. Water quality monitoring for Contract no. HK/2009/02 was commenced on 8 July 2010. The proposed division of water monitoring stations is summarized in Table 4.11 below.

Station Ref.	Location	Easting	Northing	
WSD Salt Water Intake				
WSD9	Tai Wan	837921.0	818330.0	
WSD17	Quarry Bay	839790.3	817032.2	
Cooling Water Intake				
C1	HKCEC Extension	835885.6	816223.0	
Cooling Water Intake				
RW21-P789	Great Eagle Centre/ Sun Hung Kai Centre/CWB	836268.0	816020.0	
Remarks:				

Remarks:

The water monitoring stations for the dredging works under Contract No. HK/2009/01 should also include WSD9, WSD17, WSD 21 and C5 if water quality monitoring at these locations have not been



carried out by others. Similarly, the water monitoring stations for the dredging works under Contract No. HK/2009/02 should also include WSD7, WSD9, WSD17, WSD 19, C1, C2, C3 and C4 if water quality monitoring at these locations has not been carried out by others.

- Water quality monitoring at WSD9 and WSD 17 was implemented with respect to HK/2009/02 from 8 Feb 2012.
- C5e and C5w water quality monitoring station was temporarily suspended since 29 July 2013
- WSD21 water quality monitoring station was temporarily suspended since 12 March 2014
- WSD9 and WSD17 water quality monitoring station was temporarily suspended since 8 September 2014 flood tide.
- The water monitoring station C1 shall be associated with Contract No. HK/2009/02 upon commencement of marine works under DP3 at WCR3 area.

<u>Contract no. HK/2012/08 - Wan Chai Development Phase II – Central- Wan Chai Bypass at</u> <u>Wan Chai West</u>

4.4.4. Water monitoring for Contract no. HK/2012/08 was commenced on 5 March 2013. The proposed division of water monitoring stations are summarized in *Table 4.12* below.

Station Ref.	Location	Easting	Northing		
WSD Salt Water In	itake	-			
WSD19	Sheung Wan	833415.0	816771.0		
Cooling Water Inta	Cooling Water Intake				
P1	HKCEC Phase I	835774.7	816179.4		
P3	The Academy of performing Arts	835824.6	816212.0		
P4	Shui on Centre	835865.6	816220.0		
P5	Government Buildings (Wanchai Tower / Revenue Tower / Immigration Tower)	835895.2	816215.2		

 Table 4.12
 Water Monitoring Stations for Contract no. HK/2012/08

<u>Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter</u> Section)

- 4.4.5. As the removal of reclamation work of TS1 at CBTS has been completed, all procedures have been rectified and complied with the conditions set in EP-356/2009 and FEP-04/356/2009.
- 4.4.6. Due to the presence of obstacle within the inner silt curtain frame at sampling point, water quality point at C7 was finely adjusted to the outside of the inner silt curtain frame since 29 Dec 2012.



4.4.7. Due to the commencement of the maintenance dredging on 10 November 2010, water quality monitoring for Contract no. HY/2009/15 was commenced on 9 November 2010. The proposed division of water monitoring stations is summarized in *Table 4.13* below.

 Table 4.13 Water Monitoring Stations for Contract no. HY/2009/15

Station Ref.	Location	Easting	Northing	
Cooling Water Intake				
C7	Windsor House	837193.7	816150.0	

Remarks: - The cessation of seawater intake operation for C6 was confirmed on 17 May 2011, the water monitoring at C6 was then terminated since 17 May 2011.

<u>Contract no. HY/2009/19 – Central- Wan Chai Bypass Tunnel (North Point Section) and</u> Island Eastern Corridor Link

- 4.4.8. Due to the commencement of the marine bored piling on 28 Jan 2012, water quality monitoring for Contract no. HY/2009/19 was commenced on 28 Jan 2012.
- 4.4.9. Due to the marine piling under Contract no. HY/2009/19 was completed on 4 March 2013, the temporary suspension of impact water quality monitoring at C8 and C9 from 4 March 2013 have been monitored for 4-week period after the completion of marine works to confirm no water deterioration.
- 4.4.10. As confirmed by CWB RSS, the marine pilling works under contract HY/2009/19 was confirmed completed by 4 March 2013. The water quality monitoring at the respective monitoring stations C8 and C9 were temporarily suspended since 30 March 2013.
- 4.4.11. Based on the joint inspection on 4 Jan 2012 for the NPR area, the 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8, C9 to confirm no water deterioration with respect to NPR was commenced since 7 Jan 2012 and it was completed on 6 February 2012.
- 4.4.12. Water quality monitoring at WSD10 and WSD15 was temporary suspended while water quality monitoring at WSD9 and WSD17 was implemented with respect to HK/2009/02 from 8 Feb 12 onwards;
- 4.4.13. Water quality monitoring at C8 and C9 have been implemented with respect to HY/2009/19 since the marine bore piling work started on 28 Jan 12.
- 4.4.14. Based on the safety concern when external façade refurbishment was conducted by contractor employed by Provident Center (C9) between 9 January 2012 to 30 July 2012 which caused to the inaccessibility of sampling either land and marine since 3 Feb 2012, there is a fine adjustment of the sampling location of water quality monitoring at C9 since 10 March 2012 to the closest accessible point prior to the completion of the external façade refurbishment work.
- 4.4.15. With respect to the trial dredging at WCR2 was scheduled on 20, 22, 24, 25 March and 1, 3, 11, 13, 15, 17, 19, 20 Apr and 3 May 2012, on-going water quality monitoring results at WSD21 during this period was checked and indicated that there was no contribution due to



the trial dredging operation. Enhanced review of water quality around WCR2 was also implemented and no deterioration in the water quality was observed.

- 4.4.16. Due to the access of water monitoring station at WSD19 was blocked by LCSD construction works from 3 April 2012 to 2 May 2012 and lead to the inaccessibility of sampling either land and marine, there is a fine adjustment of the sampling point of WSD 19 since 5 April 2012 to the closest accessible point prior to the completion of the construction activities.
- 4.4.17. Due to the dredging works for Cross Harbour Water Mains from Wan Chai to Tsim Sha Tsui-DP6 was completed on 26 March 2012, the temporary suspension of impact water quality monitoring at WSD7 and WSD20 after 27 April 2012 for the water quality monitoring at WSD7 and WSD20 have been monitored for 4-week period after the completion of DP6 to confirm no water deterioration.
- 4.4.18. As per the meeting with the representative of Excelsior Hotel and World Trade Centre on 17 May 2011, they confirmed that the seawater intake for The Excelsior was no longer in use and replaced by the connected permanent water supply from WSD pipelines since 11 January 2011. Thus, the impact water quality monitoring for the cooling intake - C6 was terminated effective from 26 May 2011.
- 4.4.19. 24 hours monitoring of turbidity at the cooling water intakes at C7 was conducted. With respect to the seawall collapsing at TS4 on 17 November 2011, the 24 hours turbidity monitoring and was kept in November 2011. Since the reinstating the seawall was completed on 13 January 2012 and no any water deterioration was performed, 24 hour turbidity monitoring was then suspended on 27 January 2012.
- 4.4.20. The enhanced water quality monitoring at C6, C7, Ex-WPCWA-SW and Ex-WPCWA-SE was commenced on 13 January 2011.
- 4.4.21. Water monitoring results measured in this reporting period are reviewed and summarized in *Table 4.14*. Details of water quality monitoring results and graphical presentation can be referred in <u>Appendix 4.3</u>.

	Water	Mid-flood					Mid-ebb						
Contract no.	Monitoring	D	0	Tur	bidity	S	S	D	0	Turk	oidity	S	S
	Station	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HK/2009/01 & HK/2009/02	C1	0	0	0	0	0	0	0	0	0	0	0	0
	WSD19	0	0	0	0	0	0	0	0	0	0	0	0
	P1	0	0	0	0	0	0	0	0	0	0	0	0
HK/2012/08	P3	0	0	0	0	0	0	0	0	0	0	0	0
	P4	0	0	0	0	0	0	0	0	0	0	0	0
	P5	0	0	0	0	0	0	0	0	0	0	0	0
HK/2009/02	RW21-P789	0	0	0	0	0	0	0	0	0	0	0	0

Table 4.14 Summary of Water Quality Monitoring Exceedances in Reporting period



	Water	Mid-flood					Mid-ebb						
Contract no.	Monitoring Station	D	0	Tur	bidity	S	S	D	0	Turk	oidity	S	S
		AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HY/2009/15 & HY/2010/08	C7	0	0	0	1	0	0	0	0	0	1	0	1
Total		0	0	0	1	0	0	0	0	0	1	0	1

Remarks:

- The cessation of seawater intake operation for C6 was confirmed on 17 May 2011, the water monitoring at C6 was then terminated since 17 May 2011.
- WSD9 and WSD17 were implemented with respect to HK/2009/02 from 8 Feb 2012.
- 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8 and C9 were completed on 6 Feb 2012.
- C8 and C9 were implemented with respect to HY/2009/19 from 28 Jan 2012.
- C8 & C9 was temporary suspended on 30 March 2013 due to the marine works for Contract no. HY/2009/19 had been completed on 4 March 2013
- WSD7 and WSD20 were temporarily suspended from 27 Apr 2012
- C2, C3 C4e and C4w water quality monitoring station was temporarily suspended since 24 Apr 2013
- C5e and C5w water quality monitoring station was temporarily suspended since 29 July 2013
- WSD21 water quality monitoring station was temporarily suspended since 12 March 2014
- Maintenance responsibility of silt screen C1, WSD19, P3, P4 and P5 are under Contract HK/2009/01.
- WSD9 and WSD17 water quality monitoring station was temporarily suspended since 8 September 2014 flood tide.
- Water quality monitoring for Windsor House Cooling (Station Ref: C7) was temporarily suspended since 22 October 2014 with respect to the diversion scheme and was resumed since 22 December 2014.
- The water monitoring station C1 shall be associated with Contract No. HK/2009/02 upon commencement of marine works under DP3 at WCR3 area.
- 4.4.22. There was no action and 1 limit level of turbidity exceedance, and no action and 1 limit level of suspended solid exceedance recorded in June reporting month. Investigation found that the exceedance was not related to Project works.
- 4.4.23. There was no action and 1 limit level of turbidity exceedance recorded in July reporting month. Investigation found that the exceedance was not related to Project works.
- 4.4.24. There was no action and no limit level exceedance recorded in August reporting month.
- 4.4.25. Enhanced DO monitoring at 4 monitoring stations in Causeway Bay Typhoon Shelter and Ex-Public Cargo Works Area was conducted three days per week during the reporting period. The action and limit level exceedances of water quality monitoring are summarized in *Table 4.15.*



Table 4.15Summary of Enhanced Dissolved Oxygen Monitoring Exceedances in
Reporting period

		Mid-f	lood	Mid-ebb DO		
Contract no.	Water Monitoring Station	D	0			
		AL	LL	AL	LL	
	C6	0	0	0	0	
	C7	0	0	0	0	
HY/2009/15	Ex-WPCWA SW	1	4	1	9	
	Ex-WPCWA SE	2	0	2	1	
Total		3	4	3	10	

- 4.4.26. There were 2 action level and 3 limit level exceedance of enhanced dissolved oxygen recorded in June reporting month. Investigation found that the exceedance was not related to Project works.
- 4.4.27. There were no action level and 4 limit level exceedances of enhanced dissolved oxygen recorded in July reporting month. Investigation found that the exceedances were not related to Project works.
- 4.4.28. There were 4 action level and 7 limit level exceedances of enhanced dissolved oxygen recorded in August reporting month. Investigation found that the exceedances were not related to Project works.
- 4.4.29. Investigation found that the exceedances are not related to the Project works. Details of graphical presentation can be referred in <u>Appendix 4.3</u>.
- 4.4.30. In response to the Condition 2.18 of the Environmental Permit no. EP-356/2009 requiring that a silt curtain / impermeable barrier system be installed to channel water discharge flow from Culvert L to locations outside the embayment area, a proposed replacement of the requirement with additional dissolved oxygen monitoring has been conducted at three monitoring stations, namely A, B and C between the eastern seawall of Central Reclamation Phase III and the HKCEC Extension since November 2011 under EP-356/2009 so that DO level between the eastern seawall of Central Reclamation Phase II and the HKCEC extension could be continuously monitored.
- 4.4.31. With respect to the commencement of dredging works under HK/2012/08 and the installation of MTR precast protection unit, the enhanced water quality monitoring for Culvert L was temporarily suspended since 24 July 2013
- 4.4.32. With respect to the commencement of temporary reclamation works and seawall construction at Ex-PCWAW zone and diverted culvert extension, the location of the Enhance DO monitoring stations (Ex-PCWASW and Ex-PCWA SE) were finely adjusted to the PCWAE since 7 November 2014.



4.5 Waste Monitoring Results

<u>Contract no. HK/2009/01 - Wan Chai Development Phase II – Central – Wanchai Bypass at</u> <u>HKCEC</u>

4.5.1. No Inert C&D waste and non-inert C&D waste was disposed of for the site works in this reporting period. Details of the waste flow table are summarized in *Table 4.16.*

Waste Type	Quantity this quarter	Cumulative Quantity- to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	NIL	62116.405	ТКО137, ТМ38
Inert C&D materials recycled, m ³	NIL	5856.5	N/A
Non-inert C&D materials disposed, m ³	NIL	1673.69	SENT Landfill
Non-inert C&D materials recycled, kg	NIL	203993	N/A
Chemical waste disposed, kg	NIL	10250	N/A
Marine Sediment (Type 1 – Open Sea Disposal) , m ³	NIL (Bulk Volume)	97428.2 (Bulk Volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m ³	NIL (Bulk Volume)	52250 (Bulk Volume)	East of Cha Chau
Dredged Sediment Requiring Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers		6773 (Bulk Volume)	East of Cha Chau

Table 4 16	Details of Waste Die	sposal for Contract no	HK/2009/01
	Details of Waste Dis	sposar for contract no	

4.5.2. There were no Marine Sediment (Type 1 – Open Sea Disposal) and no Marine Sediment (Type 1-Open Sea Disposal (Dedicate Sites) & Type 2- Confined Marine Disposal) disposed of in this reporting quarter.

<u>Contract no. HK/2009/02 - Wan Chai Development Phase II – Central – Wan Chai Bypass at</u> <u>WanChai East</u>

4.5.3. No Inert and non-inert C&D waste were disposed of for the site works in this reporting period. Details of the waste flow table are summarized in *Table 4.17.*



Waste Type	Quantity this quarter	Cumulative Quantity- to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	NIL	276075.1	TKO137/ TM 38
Inert C&D materials recycled, m ³	NIL	18161	N/A
Non-inert C&D materials disposed, m ³	NIL	1515.103	SENT Landfill
Non-inert C&D materials recycled, m ³	N/A	N/A	N/A
Chemical waste disposed, kg	NIL	13860	SENT Landfill
Marine Sediment (Type 1 – Open Sea Disposal), m ³	434	244249 (Bulk volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m ³ *	0	146445* (Bulk volume)	East of Sha Chau

Remarks: The cumulative quantity of Type 1 – Open Sea Disposal (Delicate Sites) & Type 2 – Confined Marine Disposal has been updated in July reporting month.

4.5.4. There was Marine Sediment (Type 1 – Open Sea Disposal) and no Marine Sediment (Type 1-Open Sea Disposal (Dedicate Sites) & Type 2- Confined Marine Disposal) disposed of in this reporting quarter.

<u>Contract no. HY/2009/15 - Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon</u> <u>Shelter Section)</u>

4.5.5. No inert and non-inert C&D waste were disposed of for the site works in this reporting period. Details of the waste flow table are summarized in *Table 4.18.*

Waste Type	Quantity this quarter	Cumulative Quantity- to-Date	Disposal / Dumping Grounds	Remarks
Inert C&D materials disposed, m ³	NIL	141579.2	Tuen Mun Area 38	NIL
	NIL	65216	TKO137 FB	NIL
Inert C&D materials recycled, m ³	NIL	304	Ex-PCWA	NIL
	NIL	111.9	TS4	NIL
Non-inert C&D materials disposed, m ³	NIL	252.2	SENT Landfill	NIL
Non-inert C&D materials recycled, kg	NIL	299361.5	N/A	NIL



Waste Type	Quantity this quarter	Cumulative Quantity- to-Date	Disposal / Dumping Grounds	Remarks
Chemical waste disposed, kg	NIL	8,200	N/A	NIL
Marine Sediment (Type 1 – Open Sea Disposal) , m ³	10774	126298 (Bulk Volume)	South of Cheung Chau	Dredging from TCBR1E / TCBR1W / TCBR2/ TCBR3 / TCBR4 / Maintenance dredging
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m ³	18560	307175 (Bulk Volume)	East of Sha Chau	Dredging from TCBR1E / TCBR1W / TCBR2/ TCBR3 / TCBR4 / Maintenance dredging
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers)	NIL	12640 (Bulk Volume)	East of Sha Chau	Dredging from TCBR1W / Maintenance dredging
Marine Sediment (Type 2 – Confined Marine Disposal), m3	NIL (Bulk Volume)	9350 (Bulk Volume)	East of Sha Chau	Dredging from Eastern Breakwater of CBTS
Marine Sediment (Type 1 – Open Sea Disposal) , m3	NIL (Bulk Volume)	600 (Bulk Volume)	East Sha Chau / South of The Brothers	Dredging from Phase 3 Mooring Re-arrangement
Marine Sediment (Type 2– Confined Marine Disposal) , m3	NIL (Bulk Volume)	14,780 (Bulk Volume)	South of The Brothers	Dredging from Phase 3 Mooring Re-arrangement
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynehetic Containers), m3	NIL (Bulk Volume)	2,760 (Bulk Volume)	South of The Brothers	Dredging from Phase 3 Mooring Re-arrangement

4.5.6. There was Marine Sediment (Type 1 – Open Sea Disposal) and Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sties) & Type 2 – Confined Marine Disposal) disposed in this reporting quarter.

<u>Contract no. HY/2009/19 – Central- WanChai Bypass Tunnel (North Point Section) and Island</u> <u>Eastern Corridor Link</u>

4.5.7. No Inert and non-inert C&D waste were disposed of in this reporting quarter

Waste Type	Quantity this month	Cumulative Quantity- to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	NIL	355921.04	TM38
Inert C&D materials recycled, m ³	NIL	59367	N/A

Table 4.19 Details of Waste Disposal for Contract no. HY/2009/19



Lam Geotechnics Limited

Waste Type	Quantity this month	Cumulative Quantity- to-Date	Disposal / Dumping Grounds
Non-inert C&D materials disposed, m ³	NIL	1068.6	N/A
Non-inert C&D materials recycled, kg	NIL	333.14	N/A
Chemical waste disposed, L	NIL	2.12	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m ³	NIL	162	South Cheung Chau
$\begin{array}{l} \mbox{Marine Sediment (Type 2 - Confined Marine Disposal)} \ , \\ \ m^3 \end{array}$	NIL	681	East Sha Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m3	NIL	4976.00	N/A

4.5.8. There were no marine sediments Type1- Open Sea Disposal and there were no Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal in this reporting quarter.

<u>Contract no. HK/2012/08 –Wan Chai Development Phase II – Central- Wan Chai Bypass at</u> <u>Wan Chai West</u>

4.5.9. Inert C&D waste were disposed of in this reporting quarter. Details of the waste flow table are summarized in Table 4.20.

Waste Type	Quantity this month	Cumulative Quantity- to-Date	Disposal / Dumping Grounds		
Inert C&D materials disposed, m ³	245	4131	TM38		
Inert C&D materials recycled, m ³	NIL	NIL	N/A		
Non-inert C&D materials disposed, m ³ *	NIL	315	N/A		
Non-inert C&D materials recycled, kg	NIL	NIL	N/A		
Chemical waste disposed, L	NIL	NIL	N/A		
Marine Sediment (Type 1 – Open Sea Disposal), m ³ *	NIL (Bulk volume)	31759 (Bulk volume)	South of Cheung Chau		
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m ³ *	NIL (Bulk volume)	108485 (Bulk volume)	South of The Brothers (from 27 Aug 2013 onwards)		

Table 4.20 Details of Waste Disposal for Contract no. HK/2012/08

4.5.10. No Marine Sediment (Type 1 – Open Sea Disposal) and no marine sediment Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal generated disposed in this reporting quarter.



Contract no. HY/2010/08 –Central - Wan Chai Bypass (CWB) –Tunnel (Slip Road 8)

4.5.11. No Inert C&D waste and non-inert C&D waste were disposed in this reporting period. Details of the waste flow table are summarized in Table 4.21

Waste Type	Quantity this month	Cumulative Quantity- to-Date	Disposal / Dumping Grounds		
Inert C&D materials disposed, m ³	1119711.3	119711.3	N/A		
Inert C&D materials recycled, m ³	NIL	NIL	N/A		
Non-inert C&D materials disposed, m ³	NIL	NIL	N/A		
Non-inert C&D materials recycled, kg	NIL	NIL	N/A		
Chemical waste disposed, L	NIL	NIL	N/A		
Marine Sediment (Type 1 – Open Sea Disposal)	NIL	55290	South Cheung Chau		
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	NIL	27760	Brothers Island		
Marine Sediment (Type 3 – Special Treatment)	NIL	7780	Brothers Island		

 Table 4.21 Details of Waste Disposal for Contract no. HY/2010/08

4.5.12. There were no Marine Sediment (Type 1 – Open Sea Disposal), Marine Sediment (Type 3 – Special Treatment) and marine sediment Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal disposed in this reporting quarter.



5. COMPLIANCE AUDIT

5.0.1. The Event Action Plan for construction noise, air quality and water quality are presented in *Appendix 5.1.*

5.1. Noise Monitoring

- 5.1.1 Three limit level exceedances were recorded on 5, 9 and 16 June 2015 at M6 HK Baptist Church Henrietta Secondary School in June reporting month. Investigations found that on 5, 9 and 16 June 2015, traffic noise was the major contribution in the noise monitoring and exceedance was not related to the Project.
- 5.1.2 No action and limit level exceedance was recorded in July reporting month.
- 5.1.3 No action and limit leve exceedance was recorded in August reporting month.
- 5.1.4 Noise monitoring results measured in this reporting period are reviewed and summarized. Details of graphical presentation can be referred in *Appendix 4.1.*

5.2. Real-time Noise Monitoring

- 5.2.1 Limit level exceedances were recorded at RTN2a-Electric Centre during daytime on 23, 24 and 25 June 2015 during day time in June reporting month. After checking with Contractor of HY/2009/19, pile cap breaking works was conducted on 23 and 24 June 2015 and pile cap excavation works was conducted on 25 June 2015. Noise mitigation measures including temporary noise barrier was implemented by the Contractor while breaking works and excavation works was noted on-going at the construction site located next to the monitoring station. In view of the above, the exceedances were considered to be non-Project related and contributed by nearby non-CWB construction site works. Nevertheless, the Contractor was reminded to strengthen the noise mitigation measures implemented for the pile cap demolition works to avoid potential cumulative impact to nearby sensitive receivers
- 5.2.2 No project related exceedances were recorded in July and August reporting month at RTN2a-Hong Kong Electric Centre.
- 5.2.3 Details of real time noise monitoring results and graphical presentation can be referred to <u>Appendix 4.2</u>

5.3. Air Monitoring

5.3.1 No action or limit exceedance was recorded in 1-hr TSP and 24-hrs TSP monitoring in June and July reporting months



- 5.3.2 One action level exceedance during 24hr TSP monitoring was recorded at monitoring station CMA2a – Causeway Bay Community Centre on 26 August 2015 and two action level exceedances during 1hr TSP monitoring exceedances were recorded at monitoring station CMA2a – Causeway Bay Community Centre on 27 August 2015 in August reporting month.
- 5.3.3 External renovation undertaken at Causeway Bay Community Centre on 26, 27 August 2015 by non-CWB Contractor was considered as the major contribution to the air quality impact and the exceedances were considered as non-Project related.
- 5.3.4 No action and limit level was recorded for odour patrol during July and August reporting months.

5.4. Water Quality Monitoring

5.4.1. The summary of water quality exceedances recorded in reporting period is presented in the *Table 5.1* and *Table 5.2*.

	Water	Mid-flood					Mid-ebb						
Contract no.	Monitoring Station	DO		Turbidity		SS		DO		Turbidity		S	S
		AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HK/2009/01 & HK/2009/02	C1	0	0	0	1	0	0	0	0	0	0	0	0
	WSD19	0	0	0	1	0	0	0	0	0	0	0	0
HK/2012/08	P1	0	0	0	0	0	0	0	0	0	0	0	0
	P3	0	0	0	0	0	0	0	0	0	0	0	0
	P4	0	0	0	0	0	0	0	0	0	0	0	0
	P5	0	0	0	0	0	0	0	0	0	0	0	0
HK/2009/02	RW21-P789	0	0	0	0	0	0	0	0	0	0	0	0
HY/2009/15 & HY/2010/08	C7	0	0	0	1	0	0	0	0	0	1	0	1
Total		0	0	0	1	0	0	0	0	0	1	0	1

Table 5.1 Summary of Water Quality Monitoring Exceedances in Reporting period

Remarks:

- The cessation of seawater intake operation for C6 was confirmed on 17 May 2011, the water monitoring at C6 was then terminated since 17 May 2011.
- WSD9 and WSD17 were implemented with respect to HK/2009/02 from 8 Feb 2012.
- 4-week water quality monitoring at WSD9, WSD10, WSD15, WSD17, C8 and C9 were completed on 6 Feb 2012.
- C8 and C9 were implemented with respect to HY/2009/19 from 28 Jan 2012.
- C8 & C9 was temporary suspended on 30 March 2013 due to the marine works for Contract no. HY/2009/19 had been completed on 4 March 2013
- WSD7 and WSD20 were temporary suspended since 27 April 2012
- C2, C3 C4e and C4w water quality monitoring station was temporarily suspended since 24 Apr 2013
- C5e and C5w water quality monitoring station was temporarily suspended since 29 July 2013
- WSD21 water quality monitoring station was temporarily suspended since 12 March 2014
- Maintenance responsibility of silt screen C1, WSD19, P3, P4 and P5 are under Contract HK/2009/01.



- WSD9 and WSD17 water quality monitoring station was temporarily suspended since 8 September 2014 flood tide.
- Water quality monitoring for Windsor House Cooling (Station Ref: C7) was temporarily suspended since 22 October 2014 with respect to the diversion scheme and was resumed since 22 December 2014
- The water monitoring station C1 shall be associated with Contract No. HK/2009/02 upon commencement of marine works under DP3 at WCR3 area.
- 4.4.33. There was no action and 1 limit level of turbidity exceedance, and no action and 1 limit level of suspended solid exceedance recorded in June reporting month. Investigation found that the exceedance was not related to Project works.
- 4.4.34. There was no action and 1 limit level of turbidity exceedance recorded in July reporting month. Investigation found that the exceedance was not related to Project works.
- 4.4.35. There was no action and no limit level exceedance recorded in August reporting month.

_		Mid-f	lood	Mid-ebb		
Contract no.	Water Monitoring Station	D	0	DO		
		AL	LL	AL	LL	
	C6	0	0	0	0	
HY/2009/15	C7	0	0	0	0	
	Ex-WPCWA SW	1	4	1	9	
	Ex-WPCWA SE	2	0	2	1	
	3	4	3	10		

Table 5.2Summary of Enhanced Dissolved Oxygen Monitoring Exceedances in
Reporting period

- 5.4.2. There were 2 action level and 3 limit level exceedance of enhanced dissolved oxygen recorded in June reporting month. Investigation found that the exceedance was not related to Project works.
- 5.4.3. There were no action level and 4 limit level exceedances of enhanced dissolved oxygen recorded in July reporting month. Investigation found that the exceedances were not related to Project works.
- 5.4.4. There were 4 action level and 7 limit level exceedances of enhanced dissolved oxygen recorded in August reporting month. Investigation found that the exceedances were not related to Project works.



5.5. Site Audit

5.5.1. There was no non-compliance from the site audits in the reporting period. During environmental site inspections conducted during the reporting period, minor deficiencies were noted.

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

5.6.1 There was no non-compliance from the site audits in the reporting period.

5.7. Summary of action taken in the event of and follow-up on non-compliance

5.7.1 There was no particular action taken since no project-related non-compliance was recorded from the site audits in this reporting quarter.



6. COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

- 6.0.1. No environmental complaint received in March, April and May reporting months.
- 6.0.2. The details of cumulative complaint log and summary of complaints are presented in *Appendix 6.1*.
- 6.0.3. Cumulative statistic on complaints and successful prosecutions are summarized in *Table 6.1* and *Table 6.2* respectively.

Table 6.1 Cumulative Statistics on Complaints

Reporting Period	No. of Complaints
Commencement works (Mar 2010) to last reporting period	35
June 2015 - August 2015	2
Project-to-Date	37

Table 6.2 Cumulative Statistics on Successful Prosecutions

Environmental Parameters	Cumulative No. Brought Forward	No. of Successful Prosecutions this quarter (Offence Date)	Cumulative No. Project-to-Date
Air	-	0	0
Noise	-	0	0
Water	-	0	0
Waste	-	0	0
Total	-	0	0



7. CUMULATIVE CONSTRUCTION IMPACT DUE TO THE CONCURRENT PROJECTS

- 7.0.1. According to Condition 3.4 of the EP-356/2009, this section addresses the relevant cumulative construction impact due to the concurrent activities of the current projects including the Central Reclamation Phase III, Central-Wanchai Bypass and Island Eastern Corridor Link projects.
- 7.0.2. According to the Final EM&A Report of Central Reclamation Phase III (CRIII) for Contract HK 12/02, the major construction activities were completed by end of January 2014 and no construction activities were undertaken thereafter and the water quality monitoring was completed in October 2011 and no Project-related exceedance was recorded for air and noise monitoring. It can be concluded that cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was insignificant.
- 7.0.3. According to the construction programme of Central-Wanchai Bypass at Wanchai West at the Central Reclamation Phase III area, removal of L-shape wall and installation of caisson seawall were performed in this reporting quarter. As no project related exceedance were recorded during the reporting period, cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was considered as insignificant.
- 7.0.4. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activities under Wan Chai Development Phase II were tunnel works, ELS works and culvert construction at Wan Chai East and removal of L-shape wall, D-wall construction and ELS works at Wan Chai West. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were bridge construction and road works at Central Interchange, ELS works at Ex-PCWAW, ELS works and retaining wall construction at Victoria Park, D- wall construction and ELS works at TS3, IEC demolition and tunnel works at North Point area in the reporting quarter.
- 7.0.5. No significant air impact from construction activities was anticipated in the reporting month. Besides, no project related exceedance was recorded during the air and noise environmental monitoring events in the reporting month. Thus, it is evaluated that the cumulative construction impact from the concurrent projects including Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WDII), Central-WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) was insignificant.



Lam Geotechnics Limited

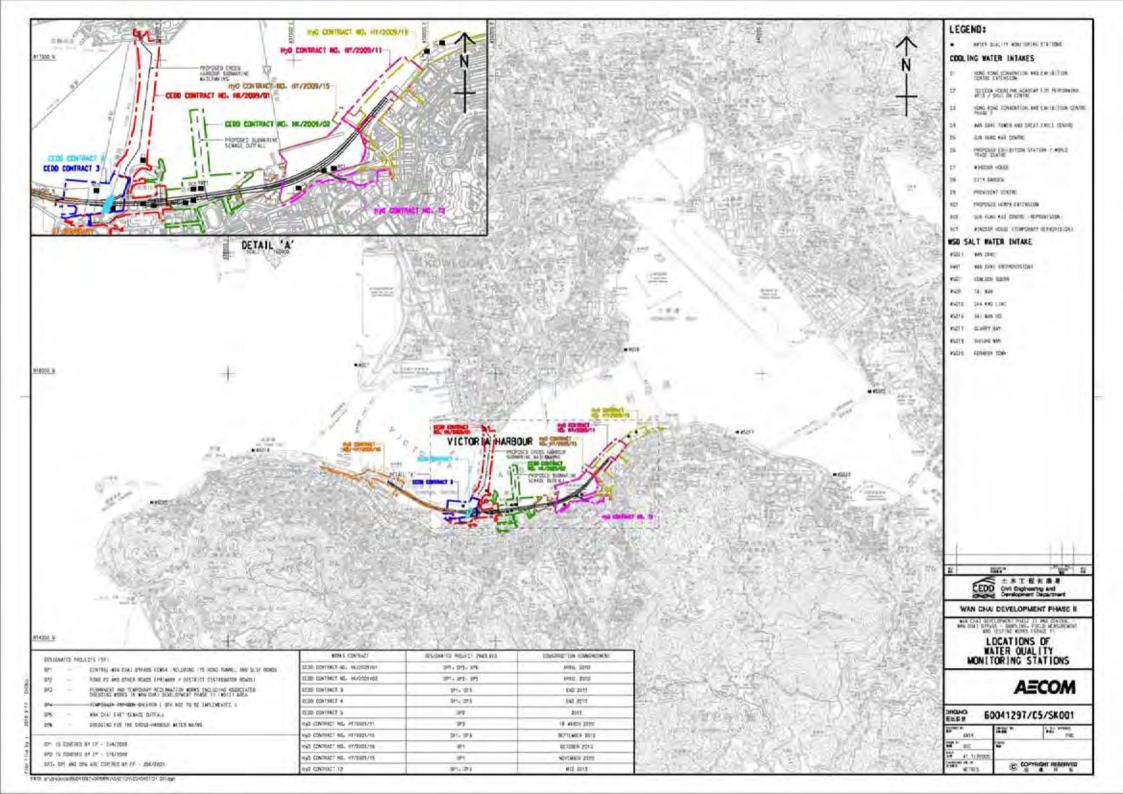
8. CONCLUSION

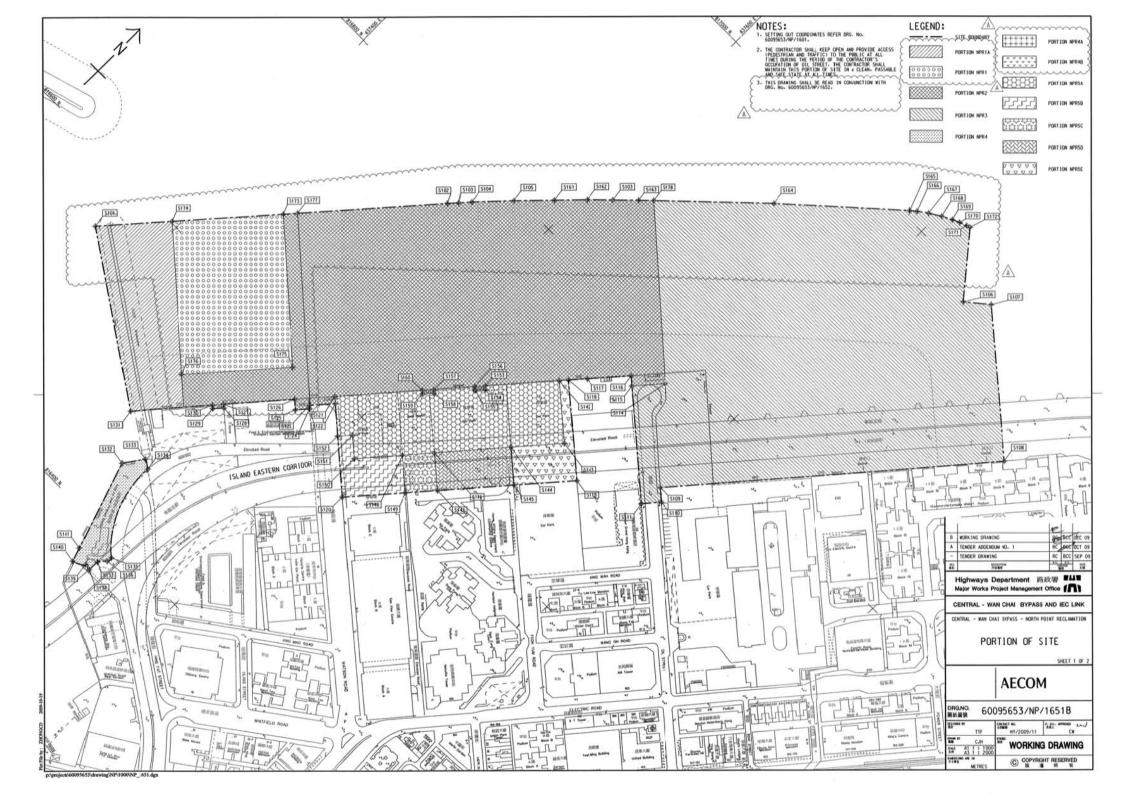
- 8.0.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made in response to changing circumstances.
- 8.0.2. No non-compliance was noted and no prosecution was received during the reporting quarter.
- 8.0.3. The construction programmes of individual contracts are provided in *Appendix 8.1*.

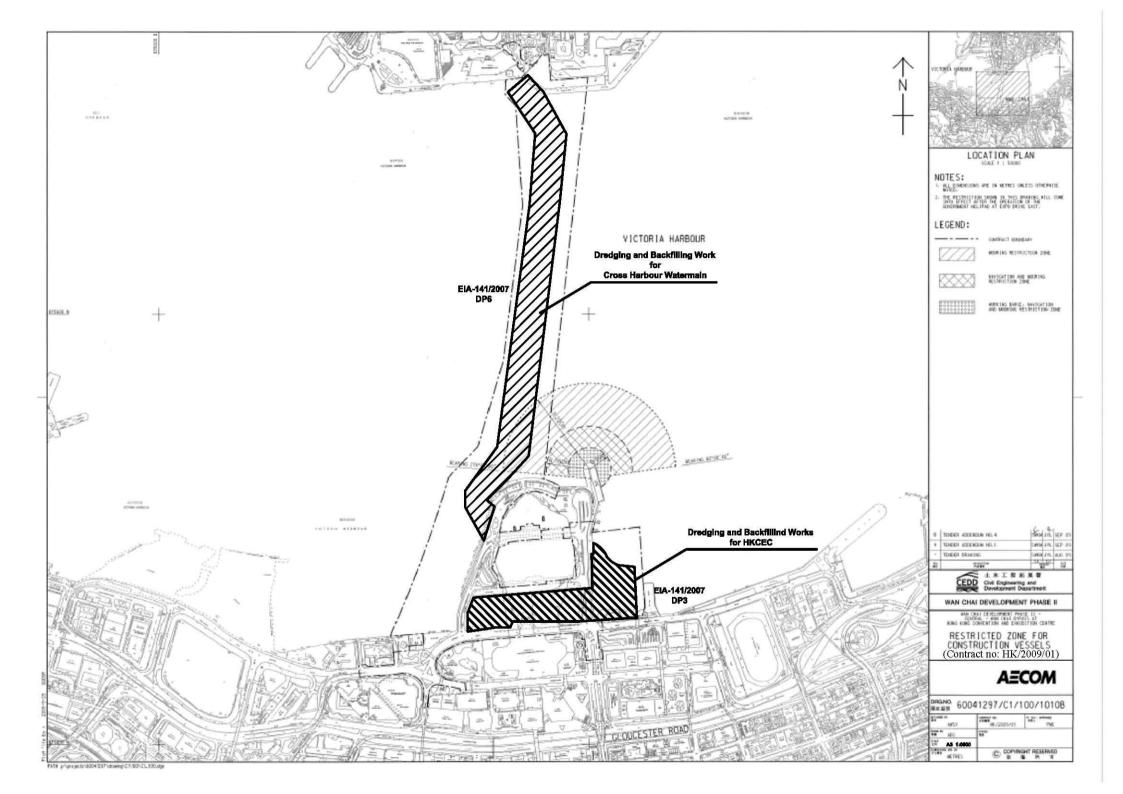


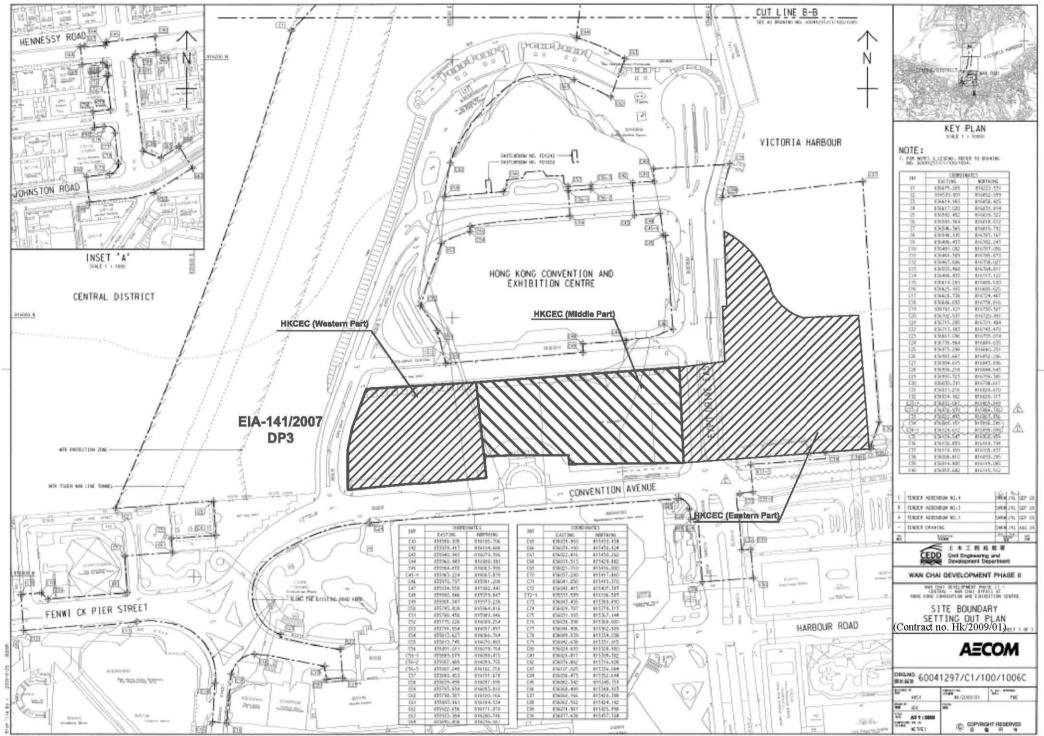
Figure 2.1

Project Layout

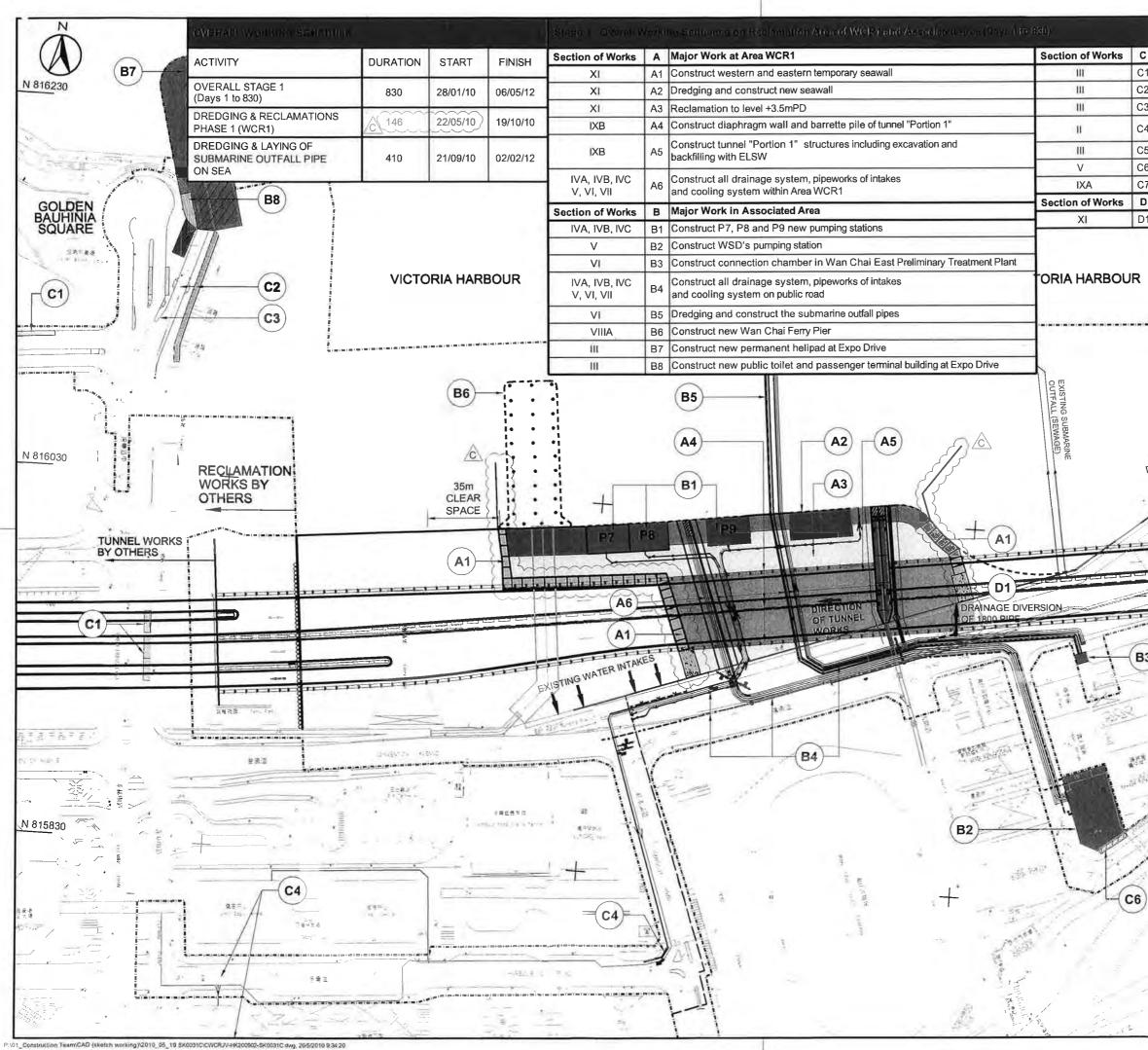




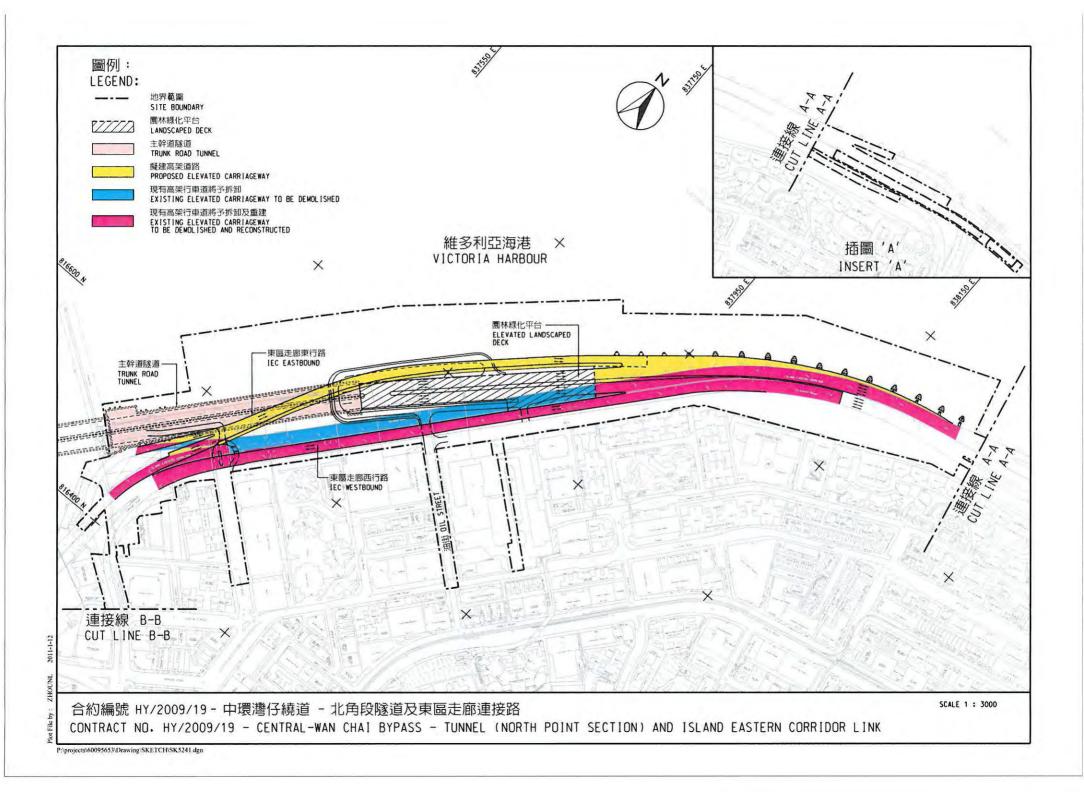


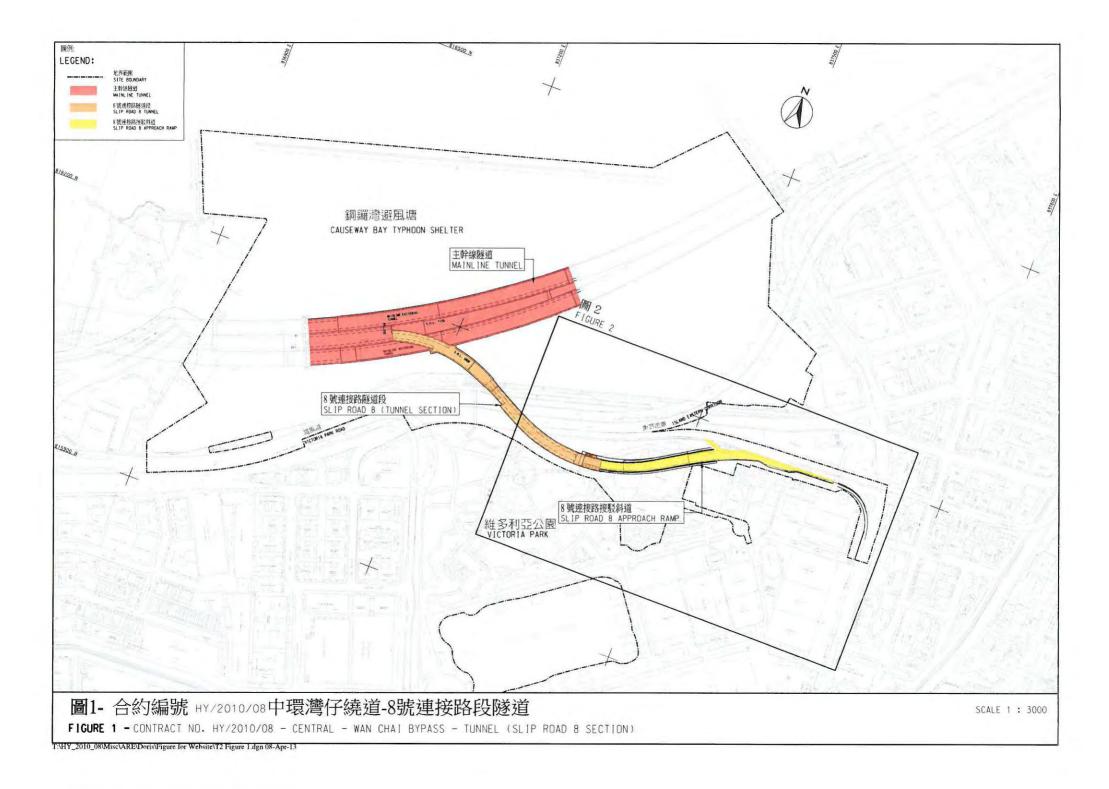


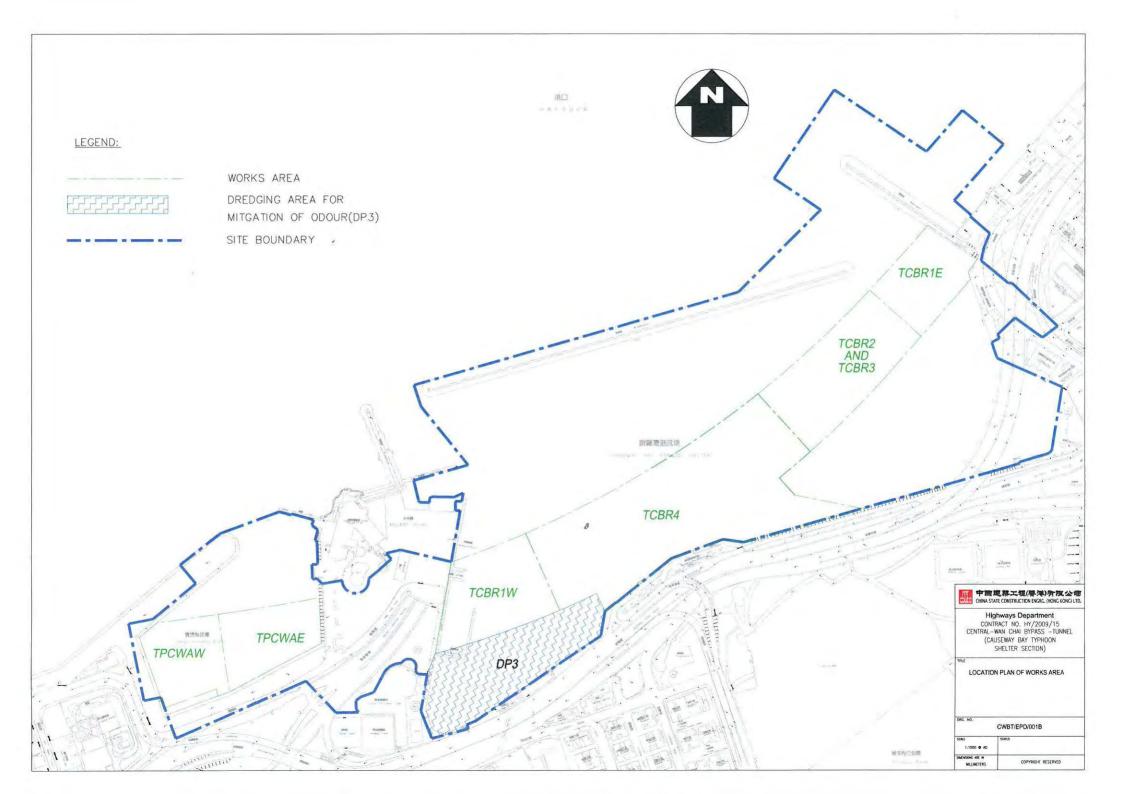
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С	Other Miscellaneous Works					
C1	Construct new taxi and coach bus I	parking space at Expos Drive East				
C2	Modification work on existing seawall and provide new EVA at Expo Drive					
C3	Road re-alignment work on existing					
C4	Road improvement work at junction	of Harbour Road /				
-	Tonnochy Road and Fleming Road					
C5	Demolition of existing above groun					
C6	Demolition of existing staircase of f					
C7	Demolition of existing temporary he	sipad at ex-PCWA				
D1	Other Temporary Works Divert existing 1800 mm diameter of	Irain nine				
२						
ED	XISTING SCHARGE					
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B 3		C 19/05/2010 WORKING SCHEDULE UPDATED &				
Q		TEMPORARY SEAWALL LAYOUT REVISED B 14/04/2010 SECTION OF WORKS ADDED				
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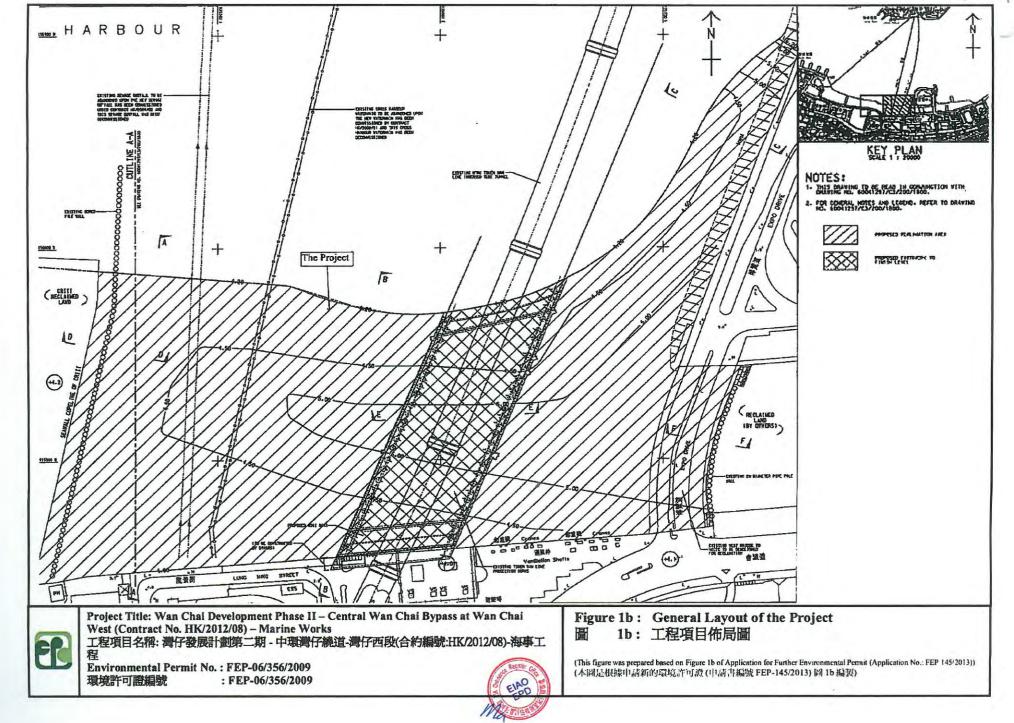
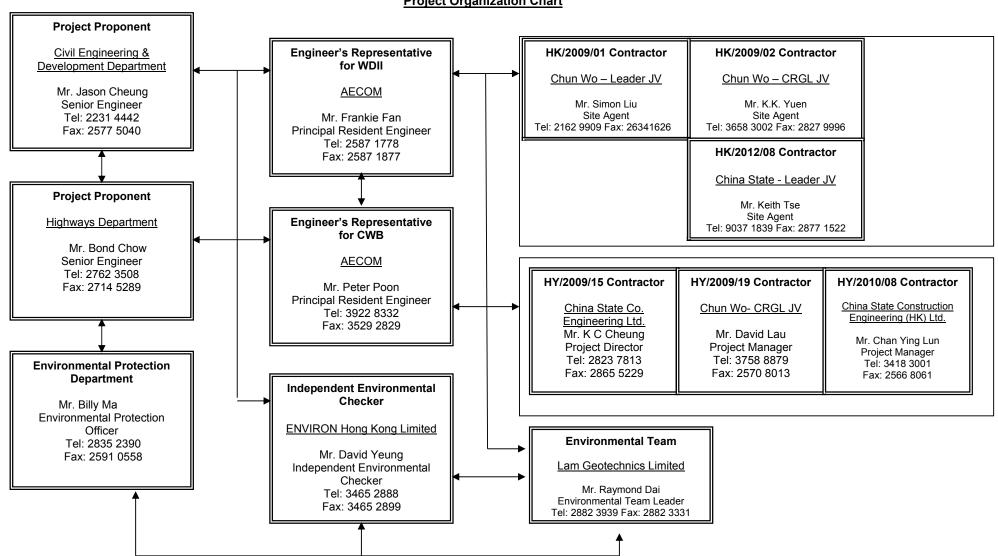




Figure 2.2

Project Organization Chart



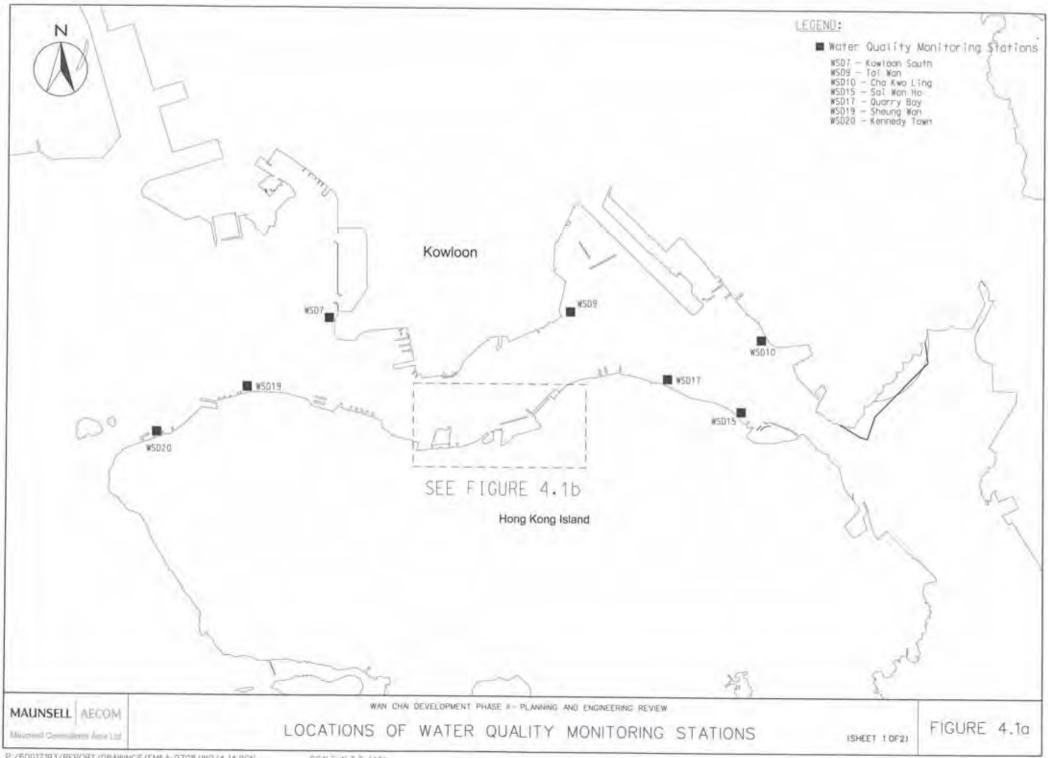


Project Organization Chart



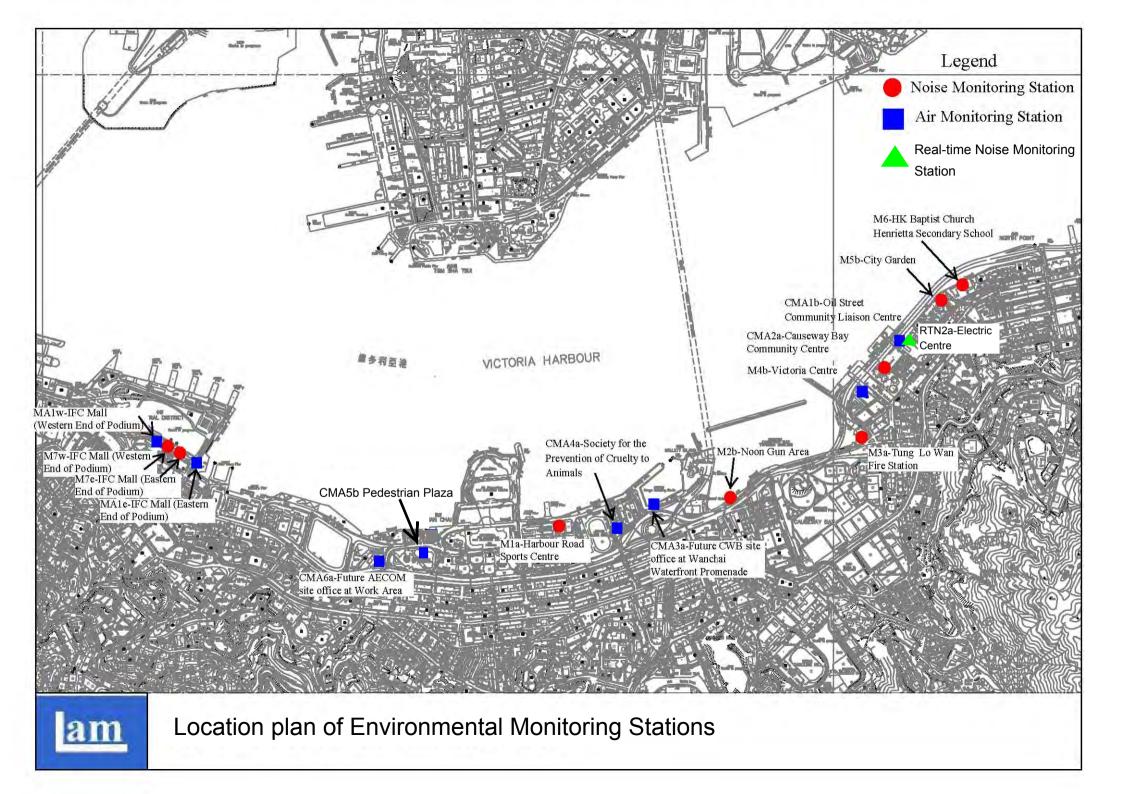
Figure 4.1

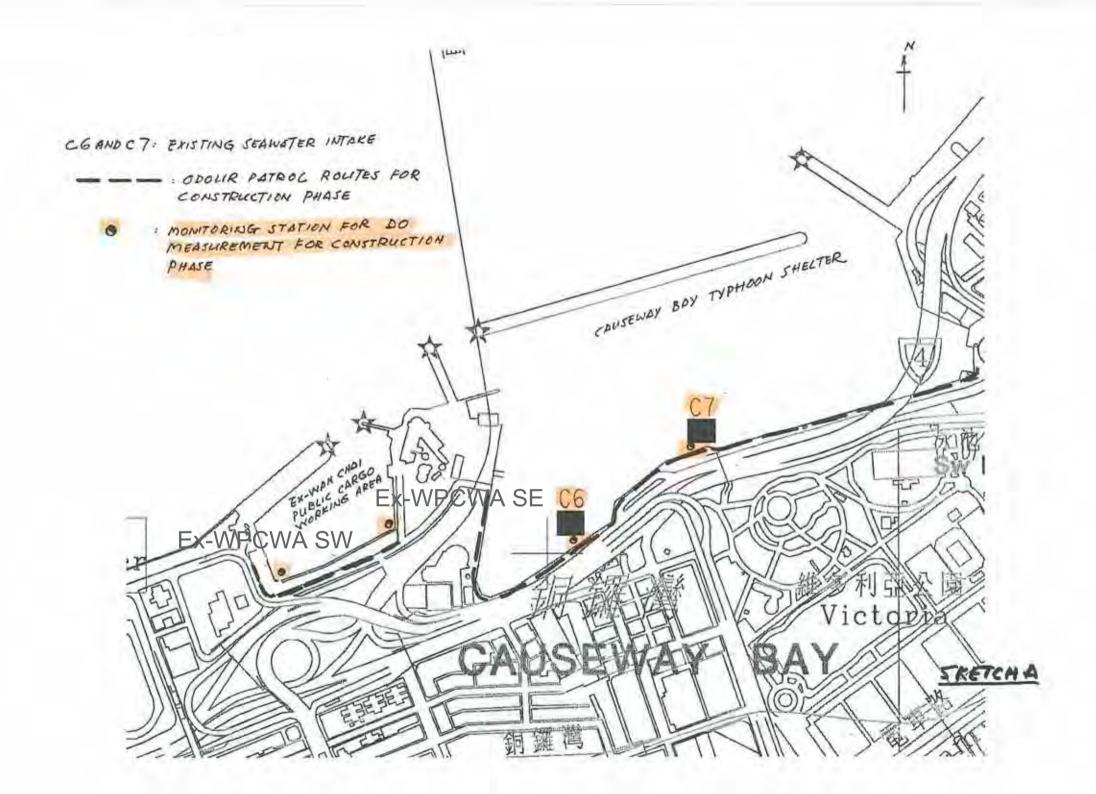
Locations of Monitoring Stations

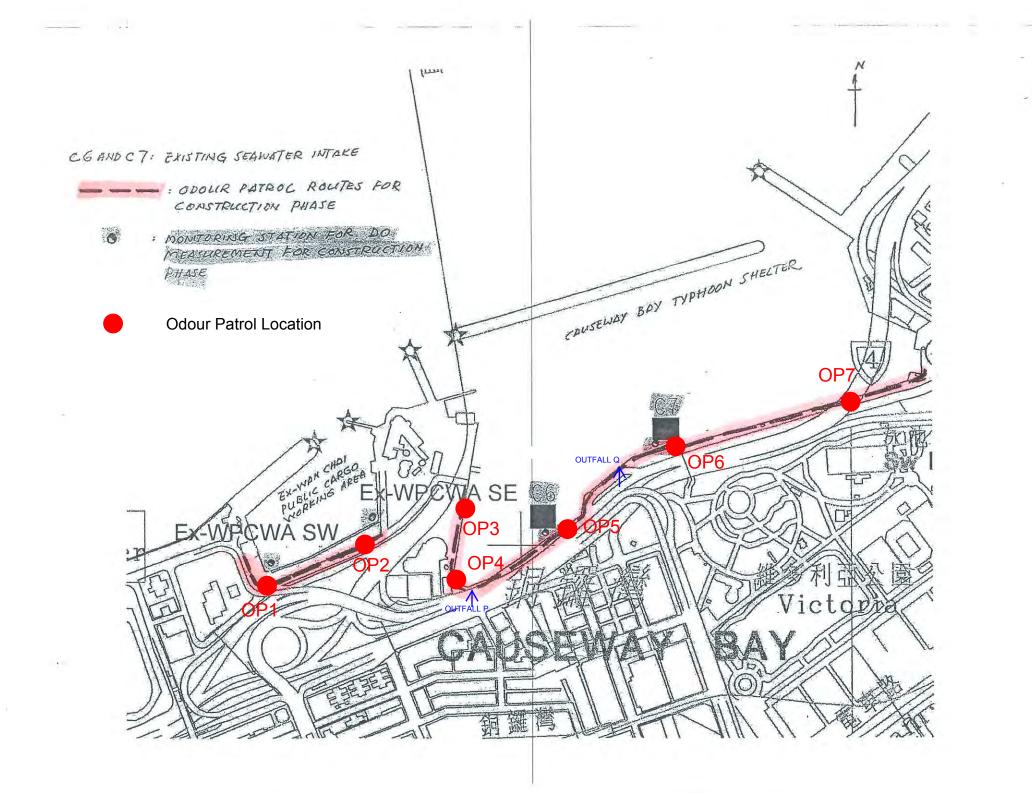


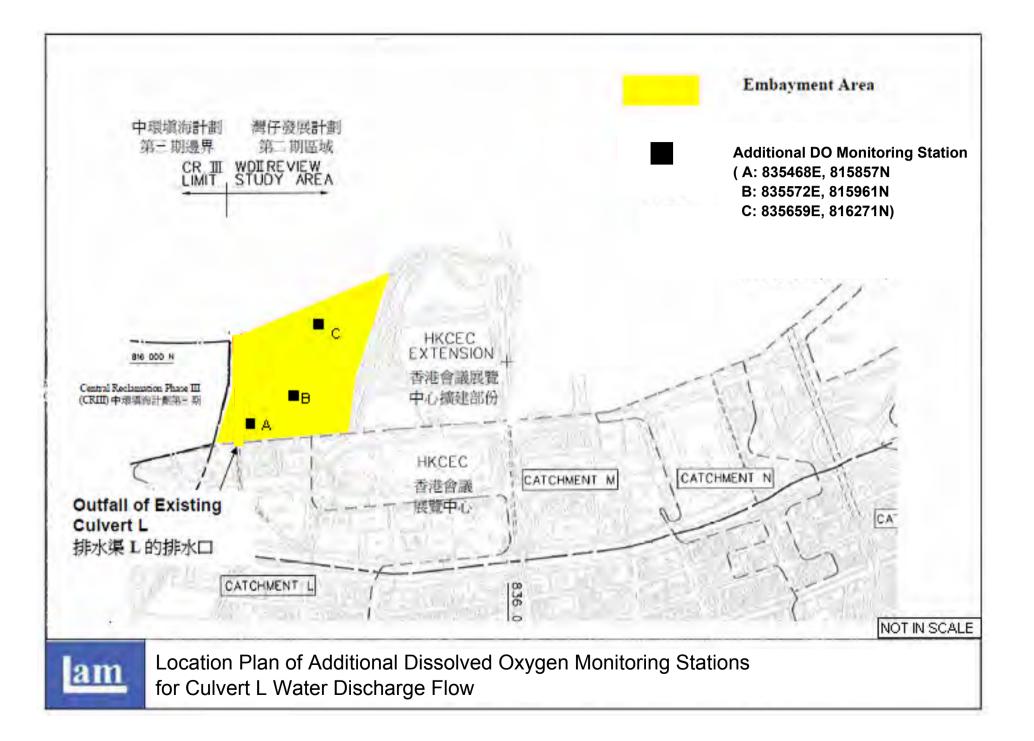
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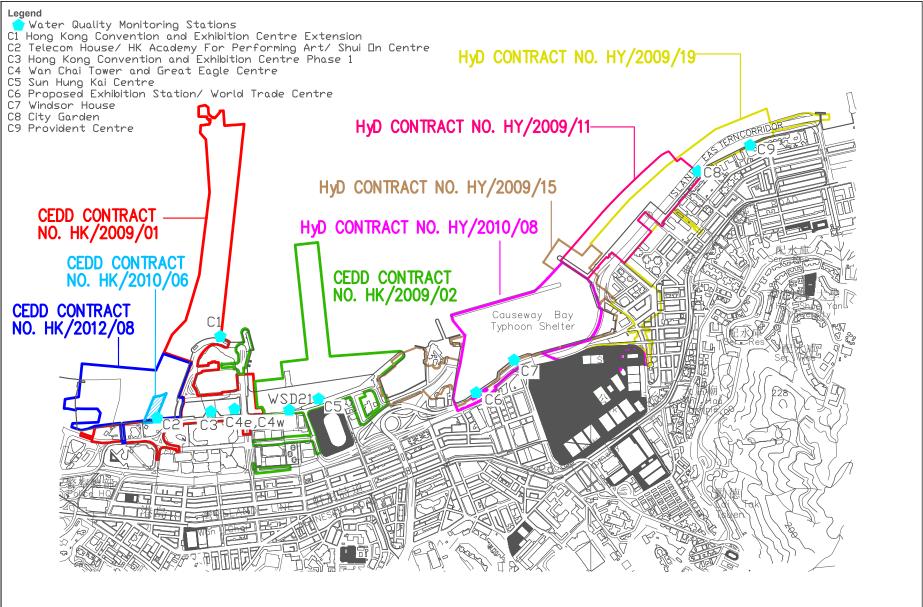
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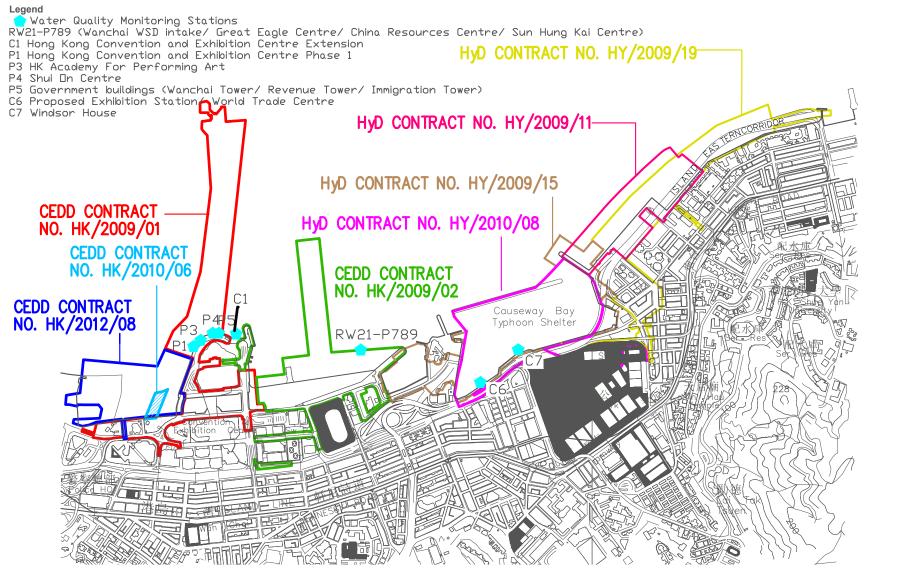




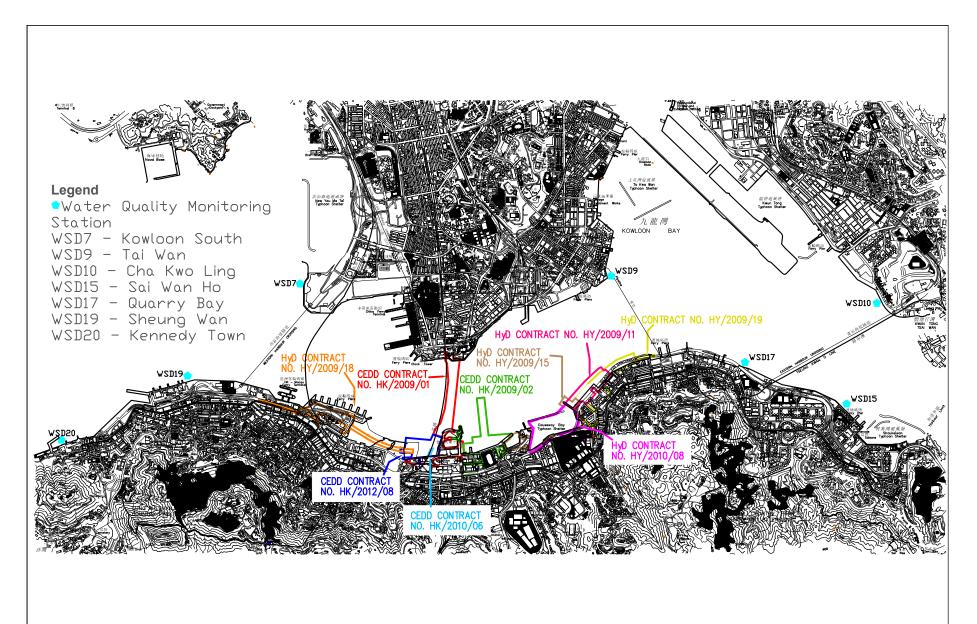




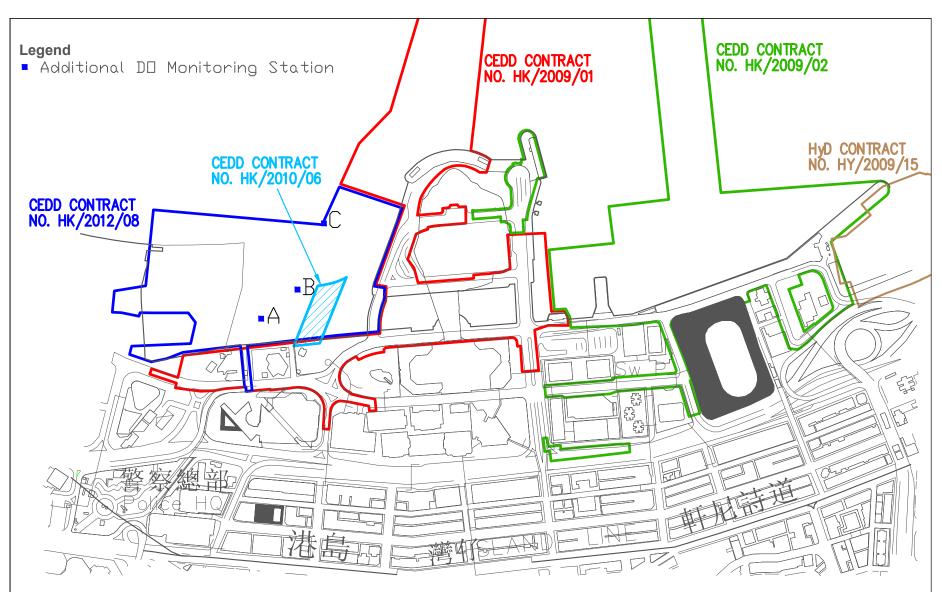
LOCATIONS OF WATER QUALITY MONITORING STATIONS



LOCATIONS OF WATER QUALITY MONITORING STATIONS



LOCATIONS OF WATER QUALITY MONITORING STATIONS



LOCATIONS OF ADDITIONAL DISSOLVED OXYGEN MONITORING STATIONS FOR CULVERT L WATER DISCHARGE FLOW



Appendix 2.1

Environmental Mitigation Implementation Schedule

Environmental Mitigation Implementation Schedule

Implementation Schedule for Air Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	res Location / Timing	Implementation Agent	In		ientati ges*	Relevant Legislation	
			Agent	Des	С	0	Dec	and Guidelines
Constructio	on Phase							
For the Wh	ole Project							
\$3.6.5	Four times a day watering of the work site with active operations.	Work site / during construction	Contractor		V			EIAO-TM
\$3.8.1	 Implementation of dust suppression measures stipulated in Air Pollution Control (Construction Dust) Regulation. The following mitigation measures, good site practices and a comprehensive dust monitoring and audit programme are recommended to minimise cumulative dust impacts. Strictly limit the truck speed on site to below 10 km per hour and water spraying to keep the haul roads in wet condition; Watering during excavation and material handling; Provision of vehicle wheel and body washing facilities at the exit points of the site, combined with cleaning of public roads where necessary; and Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations. 	Work site / during construction	Contractor		V			

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Contract No. HK/2011/07

Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*			on	Relevant Legislation
		Lookiton, Thing	Agent	Des	С	0	Dec	and Guidelines
\$3.5.6	For the dredging activities carried out in the vicinity of Police Officers' Club, the dredging operation will be restricted to only 1 small close grab dredger to minimise the odour impact during the dredging activity. The dredging rate should be reduced as much as practicable for the area in close proximity to the Police Officers' Club. The sediments contain highly contaminated mud which may be disposed with the use of geosynthetic containers (details shall refer to Section 6), grab dredger has to be used for filling up the geosynthetic containers on barges. the dredging rate for the removal of the sediments at the south-west corner of the typhoon shelter shall be slowed down or restricted to specific non-popular hours in weekdays when it is necessary during construction.	Corner of CBTS/implementation of harbour-front enhancement	CEDD <u>1</u>		1			EIAO-TM
S3.8.8	Carry out dredging at the corner of CBTS to remove the sediment and clean the slime attached on the CBTS shoreline seawall	Corner of CBTS & CBTS shoreline seawall/implementation of harbour-front enhancement	CEDD ²		V			EIAO-TM
Operation I		1	1	1	1	1	1	1
For the Who	ole Project							

¹ CEDD will identify an implementation agent.

² CEDD will identify an implementation agent.

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
2		Liotation / Thing	Agent	Des	С	0	Dec	and Guidelines
\$3.10.2	Monthly (from July to September) monitoring of odour impacts, for a period of 5 years, is proposed during the operational phase of the Project to ascertain the effectiveness of the Enhancement Package over time, and to monitor any on- going odour impacts at the ASRs.	Planned ASRs (CBTS Breakwater)/First 5-year period of operation phase	CEDD ¹			V		EIAO-TM
For DP1 - 0	CWB (Within the Project Boundary)							
\$3.6.53 – \$3.6.54	The design parameters of the East and Central Ventilation Buildings as set in Tables 3.10 and 3.11	East and Central Ventilation Buildings / During operation of the Trunk Road	HyD			V		
\$3.10.2	Air quality monitoring for the operation performance of the East Ventilation Building and associated East Vent Shaft will be conducted.	East Vent Shaft / During operation of the East Ventilation Building and associated East Vent Shaft	HyD			V		EIAO-TM

• Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

Appendix 2.1

Contract No. HK/2011/07

Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2)

Quarterly EM&A Report

Table A13.2 Implementation Schedule for Noise Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent		ıplem Sta	entati ges*	on	Relevant Legislation and Guidelines
				Des	С	0	Dec	
Constructio	n Phase							
For the Whe	ole Project							

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	ion	Relevant Legislation and Guidelines
EIA KU	Environmental i rotection (vicasures / integation vicasures	Location / Thining	Agent	Des	С	0	Dec	
S4.9.4	 Good Site Practice: Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program. Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program. Mobile plant, if any, shall be sited as far away from NSRs as possible. Machines and plant (such as trucks) that may be in intermittent use shall be shut down between works periods or shall be throttled down to a minimum. Plant known to emit noise strongly in one direction shall, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. Material stockpiles and other structures shall be effectively utilized, wherever practicable, in screening noise from onsite construction activities. 	Work Sites / During Construction	Contractor	Des				EIAO-TM, NCO

Appendix 2.1

Quarterly EM&A Report

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Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2)

Implementation Implementation **Relevant Legislation** Stages* EIA Ref Location / Timing **Environmental Protection Measures / Mitigation Measures** and Guidelines Agent Des 0 С Dec EIAO-TM, NCO S4.8.3 -Use of quiet powered mechanical equipment, movable noise Work Sites / During Contractor S4.8.5 barrier and temporary noise barrier for the following tasks: Construction Slip road 8 tunnel Construction of diaphragm wall and substructures of the . tunnel approach ramp Excavation Construction of slabs . Backfill . Demolition and construction of substructures for the IEC . Demolition works of existing piers and crossheads of the marine section of the existing IEC Use of PME grouping for the following tasks: At-grade road construction . Substructure for IECL connection . For DP2 – WDII Major Roads (Road P2) Use of quiet powered mechanical equipment, movable noise Work Sites / During EIAO-TM, NCO S4.8.3 -Contractor $\sqrt{}$ S4.8.4 barrier and temporary noise barrier for the following tasks: Construction Temporary road diversion . Resurfacing At-grade roadwork . For DP3 – Reclamation Works S4.8.3 -Use of quiet powered mechanical equipment for the following Work Sites / During Contractor EIAO-TM, NCO $\sqrt{}$ S4.8.4 task: Construction • Filling behind seawall • Seawall construction

EIA Ref	Environmental Protection Measures / Mitigation Measures	s Location / Timing	Implementation	In	nplem Sta	entati ges*	Relevant Legislation	
Lintiker	Environmental Protection Measures / Minigation Measures	Location / Thining	Agent	Des	С	0	Dec	and Guidelines
For DP5 –	Wan Chai East Sewage Outfall							
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following tasks: • Submarine pipelines (marine section)	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO
	Use of quiet powered mechanical equipment and movable noise barrier for the following tasks:Installation of a new pipeline (land section)							
For DP6 -	Cross-Harbour Water Mains from Wan Chai to Tsim Sha Tsui							
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following tasks: • Submarine pipelines (marine section) •	Work Sites / During Construction	Contractor		N			EIAO-TM, NCO

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Contract No. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	Relevant Legislation	
		8	Agent	Des	С	0	Dec	and Guidelines
Operation	Phase							
For DP1 –	CWB (Within the Project Boundary)							

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Ir	nplem Sta	entati ges*	ion	Relevant Legislation
		Look ton / Thing	Agent	Des	С	0	Dec	and Guidelines
EIA Ref S4.8.14 – S4.8.18	 Environmental Protection Measures / Mitigation Measures For Existing NSRs about 235m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC about 230m length of noise semi-enclosure with transparent panel covering the main carriageways (eastbound and westbound) of the CWB and IEC about 135m length of 5.5m high cantilevered noise barrier with 3m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC about 95m length of 5.5m high cantilevered noise barrier with 1m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC about 350m length of 3.5m high vertical noise barrier with transparent panel on the eastbound slip road to the IEC about 350m length of 3.5m high vertical noise barrier with transparent panel on the eastbound slip road to the IEC about 350m length of 3.5m high vertical noise barrier with transparent panel on the eastbound slip road to the IEC about 350m length of 3.5m high vertical noise barrier with transparent panel on the eastbound slip road to the IEC low noise road surfacing for the trunk road (except tunnel section and beneath the landscaped deck at the eastern portal area) with speed limit of 70 km/hour 	Near North Point / Before commencement of operation of road project	Agent HyD HyD	Des √		T	Dec	and Guidelines EIAO-TM
	 about 265m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC 	Centre (next to City Garden) and CDA(1) site / Before occupation of Planned NSRs in CDA and CDA(1) sites.						

Appendix 2.1

Contract No. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2)

Quarterly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
			Agent	Des	С	0	Dec	and Guidelines
	• The openable windows of the temple, if any, should be	Near Causeway Bay Fire	Project					
	orientated so as to avoid direct line of sight to the existing	Station / During detailed	Proponent for					
	Victoria Park Road as far as practicable.	design of the re-	the					
		provisioned Tin Hau	re-provisioned					
		Temple	Tin Hau Temple					

* Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

[#] Only the steel frame for this section of noise semi-enclosure would be erected in advance during the construction of the westbound slip road.

Table A13.3 Implementation Schedule for Water Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	Implementation Stages*			on	Relevant Legislation
		Timing	Agent	Des	С	0	Dec	and Guidelines
Constructio	n Phase							
For DP3 – I Boundary)	Reclamation Works, DP5 (Wan Chai East Sewage Outfall), DP6 (Cross-Harbo	our Water Mains	from Wan Chai to T	Tsim Sha	a Tsu	i), DP	1 – CW	B (within the Project
S5.8	A phased reclamation approach is planned for the WDII. Containment of fill within each of the reclamation phases by seawalls is proposed, with the seawall constructed first (above high water mark) with filling carried out behind the completed seawalls. Any gaps that may need to be provided for marine access will be shielded by silt curtains to control sediment plume dispersion away from the site. Filling for seawall construction should be carried out behind the silt curtain	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8	 Dredging shall be carried out by closed grab dredger for the following works: Seawall construction in all the reclamation areas; Construction of the CWB Tunnel Construction of the proposed WSD water mains; and Construction of the proposed Wan Chai East sewage outfall pipelines. 	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8, Figure 5.3	 Dredging for the Wan Chai East sewage outfall pipelines shall not be carried out concurrently with the following activities: Dredging along the proposed cross-harbour water mains; Dredging along the seawall in the Wan Chai Reclamation (WCR) zone (area between HKCEC Extension and PCWA). 	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO

Appendix 2.1

Contract No. HK/2011/07

Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / M	Aitigation Me	easures		Location /	Implementation	In		entati ges*	ion	Relevant Legislation
		inigation fore	cusures		Timing	Agent	Des	С	0	Dec	and Guidelines
S5.8	The water body behind the temporary rec typhoon shelter shall not be fully enclosed	I the temporary reclamations within the Causeway Bay ot be fully enclosed.				Contractor		V			EIAO-TM, WPCO
S5.8	within the temporary embayment be impermeable barrier, suspended from a and extending down to the seabed, will the HKCEC1 commences. The barr discharge flows from Culvert L to the	hitigation measure, to avoid the accumulation of water borne pollutants the temporary embayment between CRIII and HKCEC1, an meable barrier, suspended from a floating boom on the water surface tending down to the seabed, will be erected by the contractor before KCEC1 commences. The barrier will channel the stormwater rge flows from Culvert L to the outside of the embayment. The ctor will maintain this barrier until the reclamation works in C2W care corrected the contract of the contract.						√			EIAO-TM, WPCO
S5.8, Figure 5.3	The total dredging rates in each of the mathematical dredging rates in each of the mathematical terms and the maximum production rates state production rates without considering the descent of the mathematical terms and the mathematical terms are stated as a state of th	ed in the table	e below.		Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
	Reclamation Area	Rate m ³ per h day (for	m ³ per hour (m ³ per								
	Dredging along seawall or breakwater										
	North Point Shoreline Zone (NPR)	6,000 375 42,000									
	Causeway Bay TBW	1,500	94	10,500							
	Shoreline Zone TCBR		375	42,000							
	PCWA Zone	5,000 3	313	35,000							

EIA Ref	Environmental Protection Measures / Mitigation Measures			Location /	Implementation	In		entati ges*	ion	Relevant Legislation	
EIA KU	Environmental Frotection Measures /	mingano	in Wicasures		Timing	Agent	Des	С	0	Dec	and Guidelines
	Wan Chai Shoreline Zone (WCR) HKCEC Shoreline Zone HKCEC Stage 1 & 3	6,000 1,500	375 94	42,000 10,500							
	(HKCEC) HKCEC Stage 2	6,000	375	42,000							
	Cross Harbour Water Mains Wan Chai East Submarine Sewage Pipeline	1,500	94 94	10,500 10,500							
95.0	Note: 1,500 m ³ per day shall be app seawall of WCR1.	lied for c	onstruction	of the western	Work site /	C. A. A.		1			
S5.8, Figure 5.3	Dredging along the seawall at WCl 1,500m ³ per day for construction of th proximity of the WSD intake), followed western seawall (above high water ma much as possible from further dredging	nich is in close struction at the	Work site / During the construction period	Contractor		\checkmark			EIAO-TM, WPCO		
S5.8, Figure 5.3	For dredging within the Causeway B partially constructed to protect the n dredging activities. For example, at seawalls shall be constructed first (a seawater intakes at the inner water wou the remaining dredging activities along	s from further rn and eastern k) so that the e impacts from	Work site / During the construction period	Contractor		\checkmark			EIAO-TM, WPCO		
S5.8, Figure 5.3	Silt curtains shall be deployed aroun seawall dredging and seawall trench fi TCBR and NP.	Work site / During the construction period	Contractor		\checkmark			EIAO-TM, WPCO			
S5.8, Figure 5.3	2009 with concurrent Bay, Sheung	Applicatio ater intak Wan, Wan	ns es at Sai W Chai, Kowloo	an Ho, Quarry	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO

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Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2)

EIA Ref	Environmental Protection	Measures / Mitigation Measures	Location /	Implementation	In	iplem Stag	entatio ges*	on	Relevant Legislation
			Timing	Agent	Des	С	0	Dec	and Guidelines
	TBW, NP and Water Mains Zone Scenario 2B in late	Convention and Exhibition Centre Phase I, Telecom House / HK Academy for Performing Arts / Shun On Centre, Wan Chai Tower / Revenue Tower / Immigration Tower and Sun Hung Kai Centre WSD saltwater intakes at Sheung Wan, Wan Chai							
	2009/2010 with concurrent dredging activities at Sewage Pipelines Zone and TCBR.	Cooling water intakes for Queensway Government Offices, Excelsior Hotel, World Trade Centre and Windsor House.							
	Scenario 2C in 2011 with concurrent dredging activities at HKCEC and TCBR.	WSD saltwater intakes at Sheung Wan and Reprovisioned WSD Wan Chai saltwater intake. Cooling water intakes for MTR South, Excelsior Hotel & World Trade Centre and reprovisioned Windsor House.							
S5.8	Other mitigation measures	include:	Work site /	Contractor		\checkmark			ProPECC PN 1/94;
	spillage and sealed tig	sed, shall be designed and maintained to avoid ghtly while being lifted. For dredging of any sed watertight grabs must be used;	During the construction period						WPCO (TM-DSS)
	vessels and the seabe	d so that adequate clearance is maintained between d in all tide conditions, to ensure that undue rated by turbulence from vessel movement or							
		dredgers shall be fitted with tight fitting seals to o prevent leakage of material;							
		shall not cause foam, oil, grease, scum, litter or tter to be present on the water within the site or							
	dredged material into th	appers shall be controlled to prevent splashing of the surrounding water. Barges or hoppers shall not t will cause the overflow of materials or polluted transportation; and							

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation
		er of	Des	С	0	Dec	and Guidelines	
	• before commencement of the reclamation works, the holder of Environmental Permit has to submit plans showing the phased construction of the reclamation, design and operation of the silt curtain.							
S5.8	Silt screens are recommended to be deployed at the seawater intakes during the reclamation works period. Installation of silt screens at the seawater intake points may cause a potential for accumulation and trapping of pollutants, floating debris and refuse behind the silt screens and may lead to potential water quality deterioration at the seawater intake points. Major sources of pollutants and floating refuse include the runoff and storm water discharges from the nearby coastal areas. As a mitigation measure to avoid the pollutant and refuse entrapment problems and to ensure that the impact monitoring results are representative, regular maintenance of the silt screens and refuse collection shall be performed at the monitoring stations at regular intervals on a daily basis. The Contractor shall be responsible for keeping the water behind the silt screen free from floating rubbish and debris during the impact monitoring period.	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO

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Contract No. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
	Zivi olilienta i rotetton rrenou es / ringation rrenou es	Timing	Agent	Des	С	0	Dec	and Guidelines
S5.8	Dredging of contaminated mud is recommended as a mitigation measures for control of operational odour impact from the Causeway Bay typhoon shelter. In recognition of the potential impacts caused by dredging activities close to the seawater intakes, only 1 small close grab dredger shall be operated within the typhoon shelter (for the dredging to mitigate odour impact) at any time to minimize the potential impact. Double silt curtains shall be deployed to fully enclose the closed grab dredger during the dredging operation. In addition, an impermeable barrier, suspended from a floating boom on the water surface and extended down to the seabed, shall be erected to isolate the adjacent intakes as much as possible from dredging activities. For example, if dredging is to be carried out at the southwest corner of the typhoon shelter, physical barriers shall be erected to west of the cooling water intake for Excelsior Hotel so that the intake would be shielded from most of the SS generated from the dredging operation to the west of the intake. For area in close proximity of the cooling water intake point, the dredging operations. Daily monitoring of SS at the cooling water intake shall be carried out, and 24 hour monitoring of turbidity at the intakes shall be implemented during the dredging activities. If the monitoring results indicate that the dredging operation has caused significant changes in water quality conditions at the seawater intakes, appropriate actions shall be taken to stop the dredging and mitigation measures such as slowing down the dredging rate shall be implemented.	Causeway Bay typhoon shelter/Imple mentation of harbour-front enhancement.	CEDD <u>3</u>					WPCO

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	Implementation Stages*			on	Relevant Legislation
EIA KU	Environmental Frotection Measures / Mitigation Measures	Timing	Agent	Des	С	0	Dec	and Guidelines
For the Wh	ole Project							
S5.8	Construction Runoff and Drainage	• Work site	Contractor		\checkmark			ProPECC PN 1/94;
	 use of sediment traps, wheel washing facilities for vehicles leaving the site, and adequate maintenance of drainage systems to prevent flooding and overflow; 	/ During the constructi on period						WPCO (TM-DSS)
	 Permanent drainage channels shall incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities shall be based on the guidelines in Appendix A1 of ProPECC PN 1/94; 							
	 a sediment tank constructed from pre-formed individual cells of approximately 6 - 8 m3 capacity can be used for settling ground water prior to disposal; 							
	 oil interceptors shall be provided in the drainage system for the tunnels and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor shall have a bypass to prevent flushing during periods of heavy rain; 							
	 precautions and actions to be taken when a rainstorm is imminent or forecast, and during or after rainstorms. Particular attention shall be paid to the control of any silty surface runoff during storm events; 							
	 on-site drainage system shall be installed prior to the commencement of other construction activities. Sediment traps shall be installed in order to minimise the sediment loading of the effluent prior to discharge; 							
	 All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge shall be adequately designed for the controlled release of storm flows. All sediment control measures shall be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage shall be reinstated to its original condition when the construction work is finished or the temporary diversion is no longer 							

³ CEDD will identify an implementation agent.

Appendix 2.1

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Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation and Guidelines
EIA Kei	Zivi oliliena i rocensi rensa es / ringaton riensa es	Timing	Agent	Des	С	0	Dec	and Guidelines
	 required. All fuel tanks and store areas shall be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity. 							
	 Minimum distances of 100 m shall be maintained between the storm water discharges and the existing or planned WSD flushing water intakes during construction phase. 							
S5.8	Sewage from Construction Work Force Construction work force sewage discharges on site shall be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage shall be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor shall also be responsible for waste disposal and maintenance practices.	Work site / During the construction period	Contractor		V			ProPECC PN 1/94; WPCO (TM-DSS)
S5.8	<i>Floating Debris and Refuse</i> Collection and removal of floating refuse shall be performed at regular intervals on a daily basis. The contractor shall be responsible for keeping the water within the site boundary and the neighbouring water free from rubbish.	Work site and adjacent water / During the construction period.	Contractor		V			WPCO

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation		
		Timing	Agent	Des	С	0	Dec	and Guidelines		
85.8	Storm Water Discharges Minimum distances of 100 m shall be maintained between the existing or planned stormwater discharges and the existing or planned WSD flushing water intakes.	Work site and adjacent water / During the design and construction period.	Contractor	V	V			WPCO		
Operation	I Phase									
	B (within the Project Boundary)	1	2					1		
\$5.8	 For the operation of CWB, a surface water drainage system would be provided to collect road runoff. The following operation stage mitigation measures are recommended to ensure road runoff would comply with the TM under the WPCO: The drainage from tunnel sections shall be directed through petrol interceptors to remove oil and grease before being discharged to the 	CWB/During design and operational period	HyD/TD ³	V		V		WPCO		
	nearby foul water manholes.Petrol interceptors shall be regularly cleaned and maintained in good									
	 Working condition. Oily contents of the petrol interceptors shall be properly handled and disposed of, in compliance with the requirements of the Waste Disposal Ordinance. 									
	• Sewage arising from ancillary facilities of CWB (for examples, car park,									

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In	nplem Stag	entati ges*	on	Relevant Legislation	
			Timing	Agent	Des	С	0	Dec	and Guidelines
	•	control room, ventilation and administration buildings and tunnel portals) shall be connected to public sewerage system. Sufficient capacity in public sewerage shall be made available to the proposed facilities. Road drainage shall also be provided with adequately designed silt trap to minimize discharge of silty runoff. The design of the operational stage mitigation measures for CWB shall take into account the guidelines published in ProPECC PN 5/93 "Drainage Plans subject to Comment by the EPD." All operational discharges from the CWB into drainage or sewerage systems are required to be licensed by EPD under the WPCO.							

* Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

³ if employ Management, Operation and Maintenance (MOM) Contract

Table A13.4 Implementation Schedule for Waste Management

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
	Zarri omnerimi i rocectori Accuoli co / Arrigatori Accuoli co	Liocation / Timing	Agent	Des	С	0	Dec	and Guidelines
Constructio	on Phase							
For DP3 -	Reclamation Works							
	Marine Sediments	Work site / During the construction period	Contractor		V			ETWB TCW No. 34/2002
S6.7.2	The dredged marine sediments would be loaded onto barges, transported to and disposed of at the designated disposal sites at South of Cheung Chau, East of Ninepin, East of Tung Lung Chau, South of Tsing Yi or East of Sha Chau to be allocated by the MFC depending on their level of contamination or at other disposal sites after consultation with the MFC and EPD. In accordance with the ETWB TCW No. 34/2002, the contaminated material must be dredged and transported with great care. The mitigation measures recommended in Section 5 of the EIA Report shall be incorporated. The dredged contaminated sediment must be effectively isolated from the environment upon final disposal and shall be disposed of at the Type 2 confined marine disposal contaminated mud pit.							
S6.7.3	Based on the biological screening results, the Category H (>10xLCEL) sediment which failed the biological testing would require Type 3 special disposal. The volume of Category H sediment from the Causeway Bay typhoon shelter which would require special disposal arrangements is estimated to be approximately 0.05 Mm ³ . A feasible containment method is proposed whereby the dredged sediments are sealed in geosynthetic containers and, at the disposal site, the containers would be dropped into the designated contaminated mud pit where they would be covered by further mud disposal and later by the mud pit capping, thereby meeting the requirements for fully confined mud disposal.							

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
		Agent		Des	С	0	Dec	and Guidelines
\$6.7.5	It will be the responsibility of the Contractor to satisfy the appropriate authorities that the contamination levels of the marine sediment to be dredged have been analysed and recorded. According to the ETWB TCW No. 34/2002, this will involve the submission of a formal Sediment Quality Report to the DEP, at least 3 months prior to the dredging contract being tendered							
S6.7.6	 During transportation and disposal of the dredged marine sediments requiring Type 1 and Type 2 disposal, the following measures shall be taken to minimise potential impacts on water quality: Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material. Excess material shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved. 							

EIA Ref	Environmental Protection Measures / Mitigation Measures	s Location / Timing In	Implementation Agent	In		entati ges*	Relevant Legislation and Guidelines	
		Lookton, Thing	Agent	Des	С	0	Dec	and Guidelines
	 Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the DEP. Barges or hopper barges shall not be filled to a level that would cause the overflow of materials or sediment laden water during loading or transportation. 							
86.6.12	<i>Floating Refuse</i> During the construction phase, the project proponent's contractor will be responsible for the collection of any refuse within their works area. Floating booms will be provided on the water surface to confine the refuse from the working barges as well as to avoid the accumulation of pollutants within temporary embayment as mentioned in Table 13.3.	Work site / During the construction period	Contractor		~			

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*			on	Relevant Legislation
		Liounion / Timing	Agent	Des	С	0	Dec	and Guidelines
S6.7.7	 Good Site Practices Recommendations for good site practices during the construction activities include: nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; training of site personnel in proper waste management and chemical waste handling procedures; provision of sufficient waste disposal points and regular collection for disposal; appropriate measures to minimise windblown litter and dust during transporting wastes in enclosed containers; regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; and a recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites). 	Work site / During the construction period	Contractor		V			Waste Disposal Ordinance (Cap.354)

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Stay	entati ges*	on	Relevant Legislation
Lintitei	Environmental Protection Measures / Mitigation Measures	Location / Thining	Agent	Des	С	0	Dec	and Guidelines
S6.7.10	General Refuse General refuse shall be stored in enclosed bins or compaction units separate from C&D material. A licensed waste collector shall be employed by the contractor to remove general refuse from the site, separately from C&D material. A collection area shall be provided where wastes can be stored and loaded prior to removal from site. An enclosed and covered area is recommended to reduce the occurrence of 'wind blow' light material.	Work site / During the construction period	Contractor		V			Public Health and Municipal Services Ordinance (Cap. 132)
S6.7.11	Chemical Wastes After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) shall be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals shall be collected by a licensed collector for disposal at the CWTF or other licensed facility in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Work site / During the construction period	Contractor		V			Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes
S6.7.12	Construction and Demolition Material C&D material shall be sorted on-site into inert C&D material (that is, public fill) and C&D waste. All the suitable inert C&D material shall be broken down to 250 mm in size for reuse as public fill in the WDII reclamation. C&D waste, such as wood, glass, plastic, steel and other metals shall be reused or recycled and, as a last resort, disposed of to landfill. A suitable area shall be designated to facilitate the sorting process and a temporary stockpiling area will be required for the separated materials.	Work site / During the construction period	Contractor		~			ETWB TCW No. 33/2002, 31/2004, 19/2005

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	Relevant Legislation	
			Agent	Des	С	0	Dec	and Guidelines
S6.7.13	In order to monitor the disposal of public fill and C&D waste at public filling facilities and landfills, respectively, and to control fly tipping, a trip-ticket system shall be included as one of the contractual requirements and implemented by the Environmental Team undertaking the environmental monitoring and audit work. An Independent Environment Checker shall be responsible for auditing the results of the system.	Work site / During the construction period	Contractor and Independent Environmental Checker		V			ETWB TCW No. 31/2004
S6.7.14	 Bentonite Slurry The disposal of residual used bentonite slurry shall follow the good practice guidelines stated in ProPECC PN 1/94 "Construction Site Drainage" and listed as follows: If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis. If the used bentonite slurry is intended to be disposed of through the public drainage system, it shall be treated to the respective effluent standards applicable to foul sewers, storm drains or the receiving waters as set out in the Technical Memorandum of Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters. If the used bentonite slurry is intended to be disposed to public fill reception facilities, it will be mixed with dry soil on site before disposal. 	Work site / During the construction period	Contractor		V			ProPECC PN 1/94

* Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

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Table A13.5 Implementation Schedule for Land Contamination

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	ion	Relevant Legislation
	Zarnomienta i occorton Accuoa co / Arnaganon Accuoa co	Liotation / Timing	Agent	Des	С	0	Dec	and Guidelines
Constructio	on Phase							-
For the Wh	ole Project							
S.12.6	• The contaminated site shall be cleaned up before commencement of site clearance and construction work at the concerned area which may disturb the ground.	A King Marine / Before commencement of construction activities at A King Marine.	Project proponent for the re- provisioned Tin Hau Temple	V				"Guidance Notes for Investigation and Remediation of Contaminated Sites of Petrol Filling Stations, Boatyards, and Car Repair/Dismantling Workshops" published by EPD, HKSAR EPD ProPECC Note No. 3/94
\$7.10	 During soil remediation works, the Contractor for the excavation works shall take note of the following points for excavation: Excavation profiles must be properly designed and executed; In case the soil to be excavated is situated beneath the groundwater table, it may be necessary to lower the groundwater table by installing well points or similar means; Quantities of soil to be excavated must be estimated; It maybe necessary to split quantities of soil according to soil type, degree and nature of contamination. Temporary storage of soil at intermediate depot or on-site 	A King Marine / During soil remediation works	Contractor	V				Air Pollution Control Ordinance Noise Control Ordinance Waste Disposal Ordinance Waste Disposal (Chemical Waste) (General) Regulation

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	nplem Sta	entati ges*	Relevant Legislation	
				Des	С	0	Dec	and Guidelines
	maybe required. The storage site shall include protection facilities for leaching into the ground. eg. Liner maybe required.							
	 Supply of suitable clean backfill materials is needed after excavation. Care must be taken of existing buildings and utilities. Precautions must be taken to control of ground settlement Speed controls for vehicles shall be imposed on dusty site areas. Vehicle wheel and body washing facilities at the site's exit points shall be established and used. The following environmental mitigation measures shall be strictly followed during the operation and/or maintenance of the CS/S facilities: 							Water Pollution Control Ordinance

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	ion	Relevant Legislation
	Environmental Protection Measures / Mitigation Measures	Location / Thining	Agent	Des	С	0	Dec	and Guidelines
	 <u>Air Quality Mitigation Measures</u> The loading, unloading, handling, transfer or storage of cement shall be carried out in an enclosed system. The loading, unloading, handling, transfer or storage of other materials which may generate airborne dust emissions such as untreated soil and oversize materials sorted out from the screening plant and stabilized soil stockpiled in the designated handling area, shall be carried out in such a manner to prevent or minimise dust emissions. These materials shall be adequately wetted prior to and during the loading, unloading and handling operations. All practicable measures, including speed controls for vehicles, shall be taken to prevent or minimize the dust emission caused by vehicle movement. Tarpaulin or low permeable sheet shall be put on dusty vehicle loads transported between site locations. 							
	 Noise Mitigation Measures The mixing facilities shall be sited as far as practicable to the nearby noise sensitive receivers. Simultaneous operation of mixing facilities and other equipment shall be avoided. Mixing process and other associated material handling activities shall be properly scheduled to minimise potential cumulative noise impact on the nearby noise sensitive receivers. Construction Noise Permit shall be applied for the operation of powered mechanical equipment during restricted hours (if any). 							

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	Relevant Legislation	
		Liocation / Thining	Agent	Des	С	0	Dec	and Guidelines
	 <u>Water Quality Mitigation Measures</u> Stockpile of untreated soil shall be covered as far as practicable to prevent the contaminated material from leaching out. The leachate shall be discharged following the requirements of WPCO. 							
	 Waste Mitigation Measures Treated oversize materials will be used as filling material for backfilling within the site. Sorted materials of size smaller than 5 cm will be collected and transferred to the mixing plant for further decontamination treatment. 							
	 Stabilized soils shall be broken into suitable size for backfilling or reuse on site. A high standard of housekeeping shall be maintained within the mixing plant area. 							
	 If necessary, there shall be clear and separated areas for stockpiling of untreated and treated materials. 							

* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

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Table A13.6 Implementation Schedule for Marine Ecology

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
			Agent	Des	С	0	Dec	and Guidelines
Constructio	on Phase							
For the Wh	ole Project - Schedule 3 DP							
S.9.7.2	Alternative design of the Trunk Road constructed in tunnel shall be adopted to avoid permanent reclamation in CBTS and ex-PWCA Basin.	-	CEDD/HyD	V				EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
For DP3 –	Reclamation Works							
S.9.7.3	Translocation of those potentially affected coral colonies to the nearby suitable habitats such as Junk Bay is recommended. A detailed translocation plan (including translocation methodology, monitoring of transplanted corals, etc.) should be drafted and approval by AFCD during the detailed design stage of the Project.	Ex-PCWA Basin and along seawall next to a public pier which is about 250 m away from the CBTS	CEDD/HyD	V				EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
	g		Agent	Des	С	0	Dec	and Guidelines
S.9.7.4	 During dredging and filling operations, a number of mitigation measures to control water quality shall be adopted to confine sediment plume within reclamation area and protect marine fauna in proximity to the reclamation. The mitigation measures include the following: Installation of silt curtains during dredging activities Use of tightly-closed grab dredger Reduction of dredging rate Control of grab descending speed Construction of leading edges of seawall in the early stages of the reclamation works 	Work site / during construction phase	Contractor		~			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
	Adoption of multiple-phase construction schedule							

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Stay	entati ges*	on	Relevant Legislation
		Liounion / Timing	Agent	Des	С	0	Dec	and Guidelines
S.9.7.6	To minimize potential disturbance impacts on the foraging ardeid population in the CBTS, particularly in the area near the A King Shipyard, appropriate mitigation measures shall be adopted particularly during the construction phase. The following measures are recommended:	Work site / during construction phase	Contractor		V			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
	• Use of Quiet Mechanical Plant during the construction phase shall be adopted wherever possible.							
	Adoption of multiple-phase construction schedule.							
	• General measures to reduce noise generated during the construction phase (see noise impact assessment) shall be effectively implemented.							
S.9.7.7	Seawalls shall be constructed in advance around the reclamation areas within the area of the CBTS to screen adjacent feeding ground from construction phase activities, reduce noise disturbance to the associated seabirds and also to restrict access to this habitat adjacent to works areas by ship traffic.	Work site / during construction phase	Contractor		V			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.
S.9.7.8	Loss of artificial seawall habitats shall be reinstated by the construction of about 1 km vertical wave absorbing seawall along the coastlines of the new reclamation around the HKCEC and at North Point. The new seawalls are expected to provide large area of hard substrata for settlement and recruitment of intertidal fauna similar to those previously recorded from existing intertidal habitats.	Work site / during construction phase	Contractor		V			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.

*Des - Design, C - Construction, $\mathrm{O}-\mathrm{Operation},$ and Dec - Decommissioning

Table A13.7 Implementation Schedule for Landscape and Visual

EIA Ref	Environment	tal Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In		ientati ges*	ion	Relevant Legislation and Guidelines
				_	Des	С	0	Dec	
Construction	Phase								
For the Whole	Project								
Table 10.5	re-use	il, where identified, shall be stripped and stored for in the construction of the soft landscape works, practical.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5		ng trees to be retained on site shall be carefully ted during construction.	Work site / During Construction Phase	Contractor	\checkmark	V			EIAO TM
Table 10.5		unavoidably affected by the works shall be lanted where practical.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5		ensatory tree planting shall be provided to ensate for felled trees.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM5 Contro	ol of night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Table 10.5		on of decorative screen hoarding compatible with rrounding setting.	Work site / During Construction Phase	Contractor		V			EIAO TM
For DP1 - CV	B (Within the	Project Boundary)							
Table 10.5	re-use	il, where identified, shall be stripped and stored for in the construction of the soft landscape works, practical.	Work site / During Construction Phase	Contractor		V			EIAO TM
Table 10.5		ng trees to be retained on site shall be carefully ted during construction.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5		unavoidably affected by the works shall be lanted where practical.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5		ensatory tree planting shall be provided to ensate for felled trees.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM5 Contro	ol of night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM

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EIA Ref	Envir	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	nplem Sta	entati ges*	ion	Relevant Legislation and Guidelines
					Des	С	0	Dec	
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		V			EIAO TM
For DP2 - WD	II Majo	r Roads (Road P2)							
Table 10.5	CM1	Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM2	Existing trees to be retained on site shall be carefully protected during construction.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM3	Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM4	Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		\checkmark			EIAO TM
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		V			EIAO TM
For DP3 - Rec	lamatio	n Works							
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		\checkmark			EIAO TM
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		\checkmark			EIAO TM
For DP5 - Wa	n Chai I	East Sewage Outfall							
Refer to EIA- 058/2001 Table 10.13	CM2	Minimisation of works areas.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM3	Erection of decorative hoardings.	Work site / During Construction Phase	Contractor		V			EIAO TM

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In		entati ges*	on	Relevant Legislation and Guidelines
				Des	С	0	Dec	
Refer to EIA- 058/2001 Table 10.13	CM4 Control night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM5 Minimisation of disruption to public by effective programming of the works.	Work site / During Construction Phase	Contractor		V			EIAO TM
	ss-Harbour Water Mains from Wan Chai to Tsim Sha Tsui			1	1			
Refer to EIA- 058/2001 Table 10.13	CM2 Minimisation of works areas.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM3 Erection of decorative hoardings.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM4 Control night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM5 Minimisation of disruption to public by effective programming of the works.	Work site / During Construction Phase	Contractor		V			EIAO TM
Operation Pha	se	-						1
For the Whole	Project - Schedule 3 DP							
Table 10.6, Figure 10.5.1- 10.5.5	OM1 Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Work site / During Design Stage and Operation Phases	CEDD/HyD	V	V	V		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM2 Shrub and Climbing Plants to soften proposed structures.	Work site / During Design Stage and Operation Phases	CEDD/HyD	V	V	V		ETWB TCW 2/2004

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					Des	С	0	Dec	
Table 10.6,	OM3	Buffer Tree and Shrub Planting to screen proposed roads	Work site / During	CEDD/HyD/					ETWB TCW 2/2004
Figure 10.5.1-		and associated structures.	Design Stage and						
10.5.5			Operation Phases						
Table 10.6,	OM4	Aesthetic design of proposed waterfront promenade.	Work site / During	$CEDD^4$	\checkmark				ETWB TCW 2/2004
Figure 10.5.1-			Design Stage and						
10.5.5			Operation Phases						
Table 10.6,	OM5	Aesthetic streetscape design.	Work site / During	CEDD/HyD					ETWB TCW 2/2004
Figure 10.5.1-			Design Stage and						
10.5.5			Operation Phases						
Table 10.6,	OM6	Aesthetic design of roadside amenity areas.	Work site / During	CEDD/HyD					ETWB TCW 2/2004
Figure 10.5.1-			Design Stage and						
10.5.5			Operation Phases						
For DP1 - CW.	B (Withi	in the Project Boundary)							
Table 10.6,	OM1	Aesthetic design of buildings and road-related structures,	Work site / During	HyD	\checkmark				ETWB TCW 2/2004
Figure 10.5.1-		including viaducts, vent buildings, subways, footbridges	Design Stage and						
10.5.5		and noise barriers and enclosure.	Operation Phases						
Table 10.6,	OM2	Shrub and Climbing Plants to soften proposed structures	Work site / During	HyD	\checkmark				ETWB TCW 2/2004
Figure 10.5.1-			Design Stage and						
10.5.5			Operation Phases						
Table 10.6,	OM3	Buffer Tree and Shrub Planting to screen proposed roads	Work site / During	HyD					ETWB TCW 2/2004
Figure 10.5.1-		and associated structures.	Design Stage and						
10.5.5			Operation Phases						
Table 10.6,	OM5	Aesthetic streetscape design.	Work site / During	HyD	\checkmark	\checkmark	\checkmark		ETWB TCW 2/2004
Figure 10.5.1-			Design Stage and						
10.5.5			Operation Phases						
Table 10.6,	OM6	Aesthetic design of roadside amenity areas.	Work site / During	HyD	\checkmark	\checkmark	\checkmark		ETWB TCW 2/2004
Figure 10.5.1-			Design Stage and						
10.5.5			Operation Phases						
For DP2 - WD	II Major	· Roads (Road P2)							

⁴ CEDD will identify an implementation agent

EIA Ref	Envir	Environmental Protection Measures / Mitigation Measures Location / Timing Implementation Implementation Stages*		on	Relevant Legislation and Guidelines				
					Des	С	0	Dec	
Table 10.6, Figure 10.5.1- 10.5.5	OM1	Aesthetic design of buildings and road-related structures, including viaducts, vent buildings, subways, footbridges and noise barriers and enclosure.	Work site / During Design Stage and Operation Phases	CEDD/HyD		V	V		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM3	Buffer Tree and Shrub Planting to screen proposed roads and associated structures.	Work site / During Design Stage and Operation Phases	CEDD/HyD		V	V		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM5	Aesthetic streetscape design.	Work site / During Design Stage and Operation Phases	CEDD/HyD		V	V		ETWB TCW 2/2004
Table 10.6, Figure 10.5.1- 10.5.5	OM6	Aesthetic design of roadside amenity areas	Work site / During Design Stage and Operation Phases	CEDD/HyD		V	V		ETWB TCW 2/2004
For DP3 – Reci	amation			-				1	1
Table 10.6, Figure 10.5.1- 10.5.5	OM4	Aesthetic design of proposed waterfront promenade.	Work site / During Design Stage and Operation Phases	CEDD ⁵	V	V	V		ETWB TCW 2/2004

*Des - Design, C - Construction, O - Operation, and Dec - Decommissioning

⁵ CEDD will identify an implementation agent

Appendix 2.1



Appendix 3.1

Action and Limit Level



Action and Limit Level

Action and Limit Level for Noise Monitoring

Time Period	Action Level	Limit Level
07:00 – 19:00 hours on normal weekdays	When one documented complaint is received.	75 dB(A) ^{Note 1}

Note 1:

70dB(A) and 65 dB(A) for schools during normal teaching periods and school examination periods, respectively.

- If works are to be carried out during the restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

Action and Limit Level for Air Monitoring

Monitoring Location	1-hour TSP Lev	el in μ g/m ³	24-hour TSP Le	vel in μ g/m ³
	Action Level	Limit Level	Action Level	Limit Level
CMA1b Note 2	320.1	500	176.7	260
CMA2a	323.4	500	169.5	260
CMA3a Note 2	311.3	500	171.0	260
CMA4a	312.5	500	171.2	260
CMA5b Note 2	332.0	500	181.0	260
CMA6a Note 2	300.1	500	187.3	260

Note 2:

- As per facing owner's rejection in allowing the implementation of long-term air quality impact monitoring at their premises, alternative monitoring stations and justification were proposed for IEC verification and EPD approval.

- The established Action and Limit Levels from the baseline air monitoring will be adopted to the alternative monitoring stations.

Action and Limit Level for Water Monitoring

Parameters	Dry S	eason	Wet Season				
Falameter S	Action	Limit	Action	Limit			
WSD Salt Water Intake							
SS in mg L ⁻¹	13.00	14.43	16.26	19.74			
Turbidity in NTU	8.04	9.49	10.01	11.54			
DO in mg/L	3.66	3.28	3.17	2.63			
Cooling Water Intake							
SS in mg L ⁻¹	15.00	22.13	18.42	27.54			
Turbidity in NTU	9.10	10.25	11.35	12.71			
DO in mg/L	3.36	2.73	3.02	2.44			

Remarks:

- Action and Limit Level for the wet season are applied after the EPD approval of Updated EM&A Manual on 29 April 2011.

Parameters	Action	Limit		
Odour Nuisance (from odour intensity analysis or odour patrol)	 When two documented complaint are received; or Odour Intensity of 2 is measured from odour intensity analysis. 	 Five or more consecutive genuine documented complaints within a week; or Odour Intensity of 3 or above is measured from odour intensity analysis. 		

Action and Limit Levels for Odour Patrol

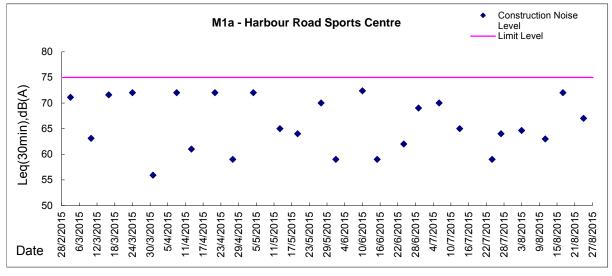


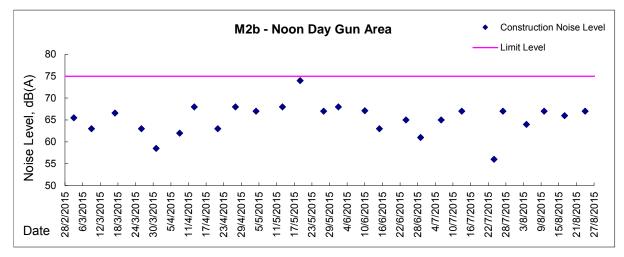
Appendix 4.1

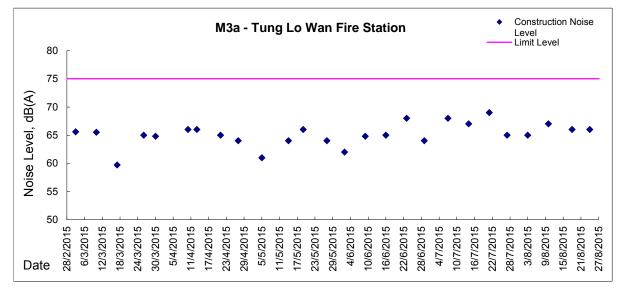
Noise Monitoring Graphical Presentations



Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)

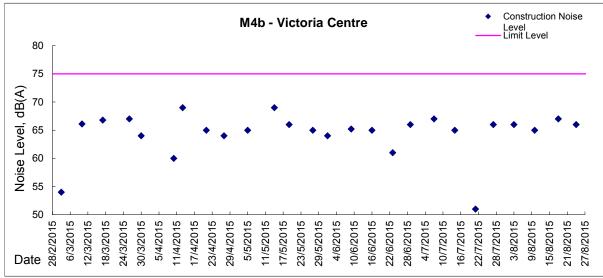


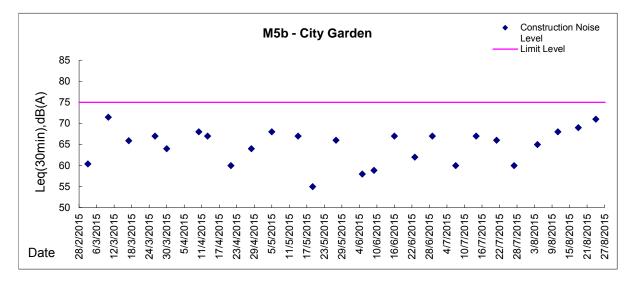


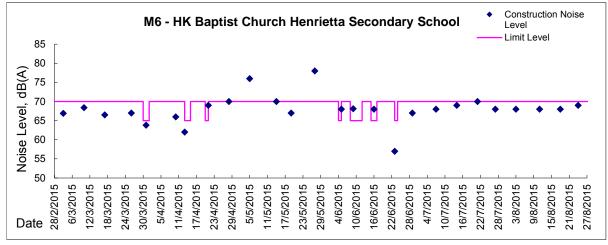




Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)





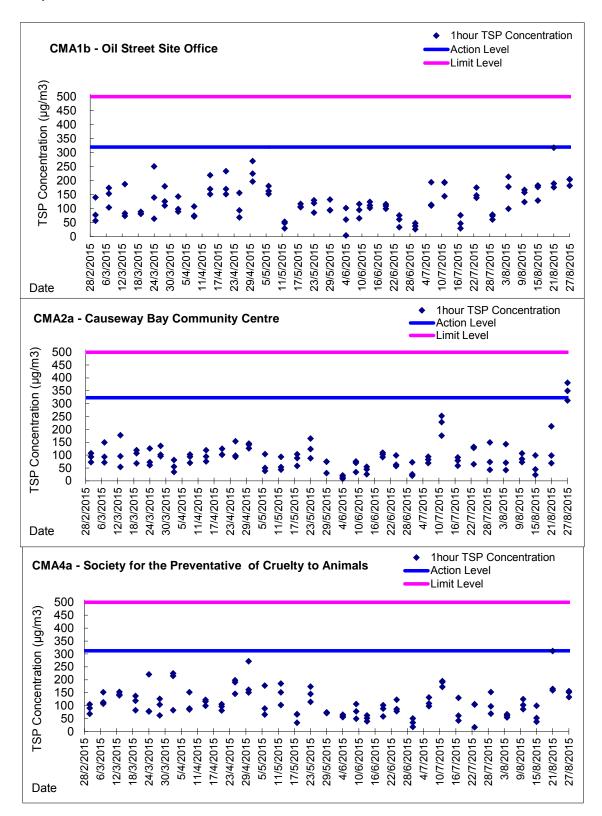




Appendix 4.2 Air Quality Monitoring Graphical Presentations

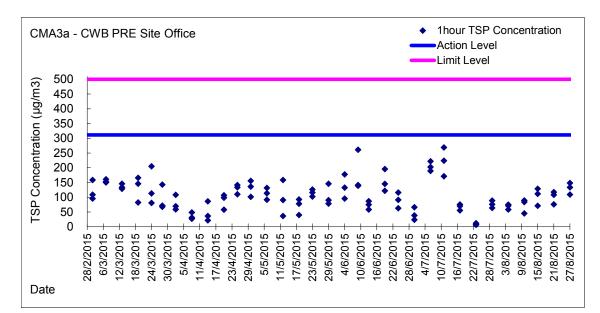


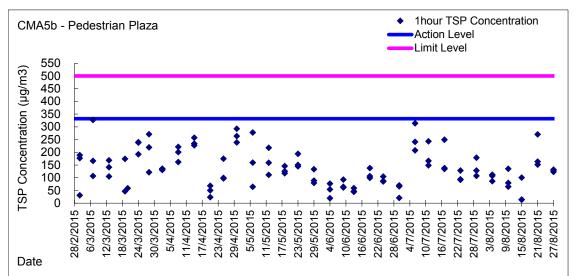
Graphic Presentation of 1 hour TSP Result

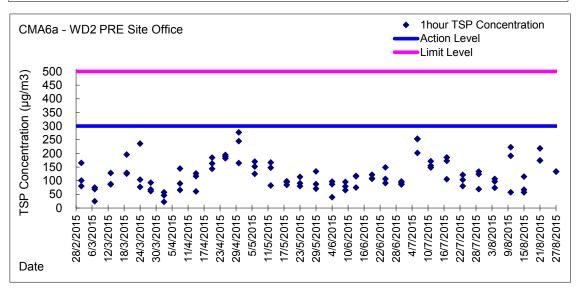




Graphic Presentation of 1 hour TSP Result

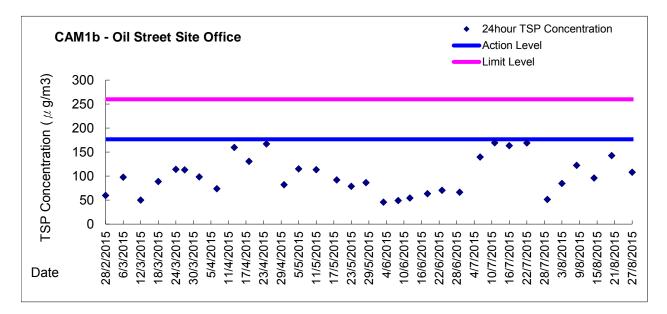


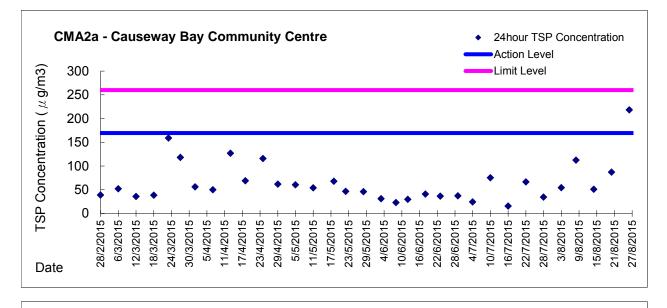


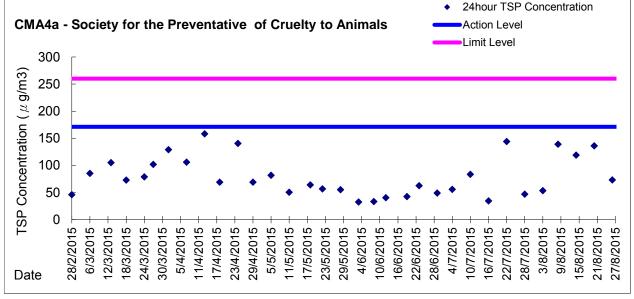




Graphic Presentation of 24 hour TSP Result

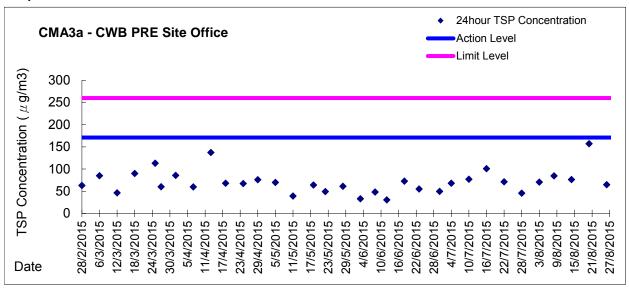


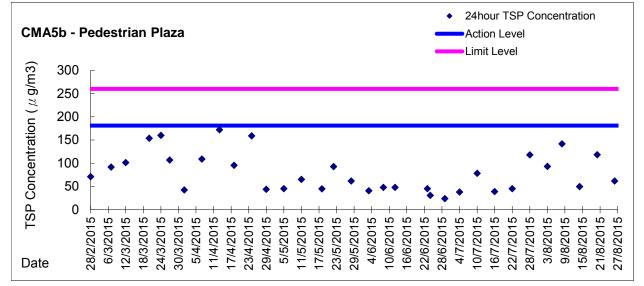


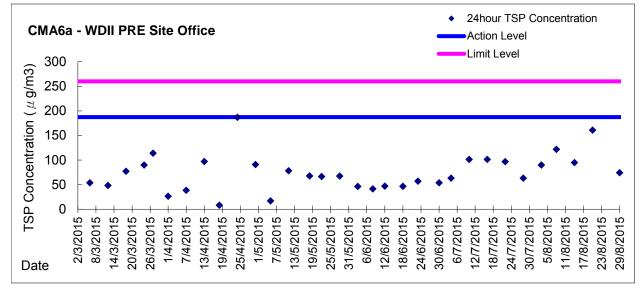




Graphic Presentation of 24 hour TSP Result









Field Data Record Sheet								
Monitoring	4 August 2015	Weather Condition:	Fine	Tidal	Ebb			
Date:				Condition:				
Temperature:	<u>30.0°C – 37.4°C</u>	Relative Humidity:	<u>50.9% - 74.1%</u>					

Location	Time	Temperature (℃)	Relative Humidity (%)	Odour Intensity	Odour Nature	Possible Odour Sources	Duration	Wind Speed(m/s)	Wind Direction	Remarks
OP7	13:50	30.0	74.1	0-1	Sewage	Sea	Persistent	0.8	NNW	
OP6	13:55	31.8	50.9	0-1	Seawater	Sea	Persistent	0.7	NNW	
OP5	14:00	30.8	70.0	1	Sewage	Sea	Intermittent	0.6	WNW	
OP4	14:05	32.5	68.8	0-1	Sewage	Sea	Intermittent	0.6	NNE	
OP3	14:10	34.7	63.8	0	/	/	1	0.7	ESE	
OP2	14:15	34.8	63.8	0-1	Sewage	Sea	Intermittent	0.6	Ν	
OP1	14:20	37.4	57.7	1	Sewage	Sea	Persistent	0.5	NNE	

Remarks for Odour Intensity:

The perceived odour intensity is to be divided into 5 levels which are ranked in the descending order as follows:

0 - Not detected. No odour perceived or an odour so weak that it cannot be easily characterised or described;

1 - Slight Identifiable odour, and slight chance to have odour nuisance;

2 – Moderate Identifiable odour, and moderate chance to have odour nuisance

3 – Strong Identifiable, likely to have odour nuisance;

4 – Extreme Severe odour, and unacceptable level



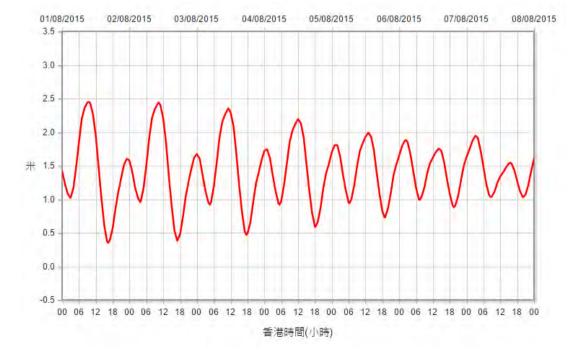
Contract No. HK/2011/07 Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2) Proposal on Impact Monitoring for Odour Patrol along the shorelines of CBTS and ex-PCWA

Meteorological Conditions on 4 August 2015

- Hong Kong Observatory Weather Station at Hong Kong Observatory
 Air Temperature: 26.8 33.3 °C
 Relative humidity: 59 90%
- Hong Kong Observatory Weather Station at Hong Kong Park Air Temperature: 25.9 – 32.5 ℃

The tidal data at Quarry Bay Station

Tide Time	Tide Height (m)
00:42	1.7
05:24	0.9
12:05	2.2
18:12	0.6





Field Data Record Sheet							
Monitoring	18 August 2015	Weather Condition:	Fine	Tidal	Ebb		
Date:				Condition:			
Temperature:	<u>32.0°C – 36.7°C</u>	Relative Humidity:	<u>57.7% - 73.8%</u>				

Location	Time	Temperature (℃)	Relative Humidity (%)	Odour Intensity	Odour Nature	Possible Odour Sources	Duration	Wind Speed(m/s)	Wind Direction	Remarks
OP7	13:24	32.0	73.8	0-1	Seawater	Sea	Intermittent	1.0	WNW	
OP6	13:30	34.5	66.0	0	/	/	/	1.2	WNW	
OP5	13:36	33.9	67.4	0-1	Culvert discharge	Sea	Intermittent	2.0	WNW	
OP4	13:42	36.3	57.7	0	/	/	/	0.7	NW	
OP3	13:48	32.6	67.6	0	/	/	1	2.5	NW	
OP2	13:55	36.7	58.6	0-1	Culvert discharge	Sea	Intermittent	1.9	W	
OP1	13:58	33.7	65.2	1	Culvert discharge	Sea	Intermittent	1.2	NNE	

Remarks for Odour Intensity:

The perceived odour intensity is to be divided into 5 levels which are ranked in the descending order as follows:

0 - Not detected. No odour perceived or an odour so weak that it cannot be easily characterised or described;

1 - Slight Identifiable odour, and slight chance to have odour nuisance;

2 – Moderate Identifiable odour, and moderate chance to have odour nuisance

3 - Strong Identifiable, likely to have odour nuisance;

4 – Extreme Severe odour, and unacceptable level



Contract No. HK/2011/07 Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2) Proposal on Impact Monitoring for Odour Patrol along the shorelines of CBTS and ex-PCWA

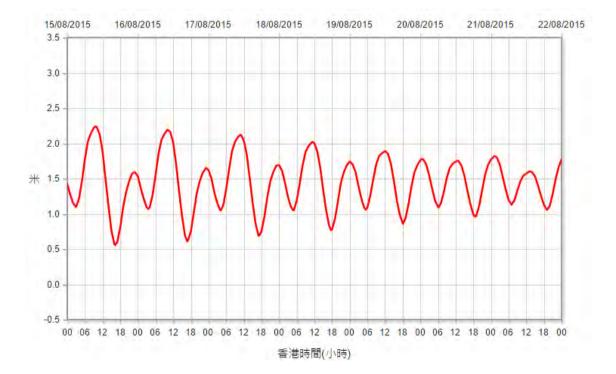
Meteorological Conditions on 18 August 2015

•	Hong Kong Observ	vatory Weather S	tation at Hong Kong Observatory	
	Air Temperature:	28.4 – 33.8 °C	Relative humidity:	65 – 89%

 Hong Kong Observatory Weather Station at Hong Kong Park Air Temperature: 28.6 – 32.4 ℃

The tidal data at Quarry Bay Station

Tide Time	Tide Height (m)
03:41	1.1
10:26	2.2
17:20	0.4



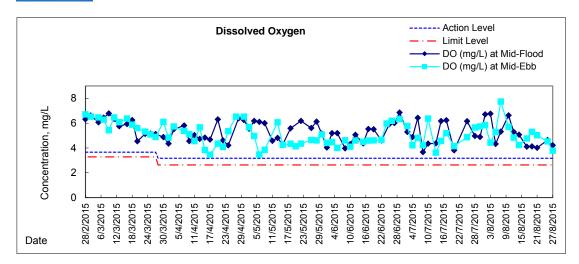


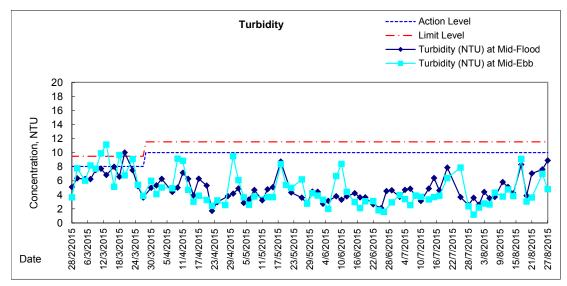
Appendix 4.3

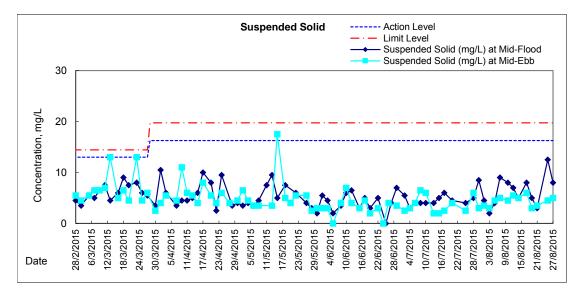
Water Quality Monitoring Graphical Presentations

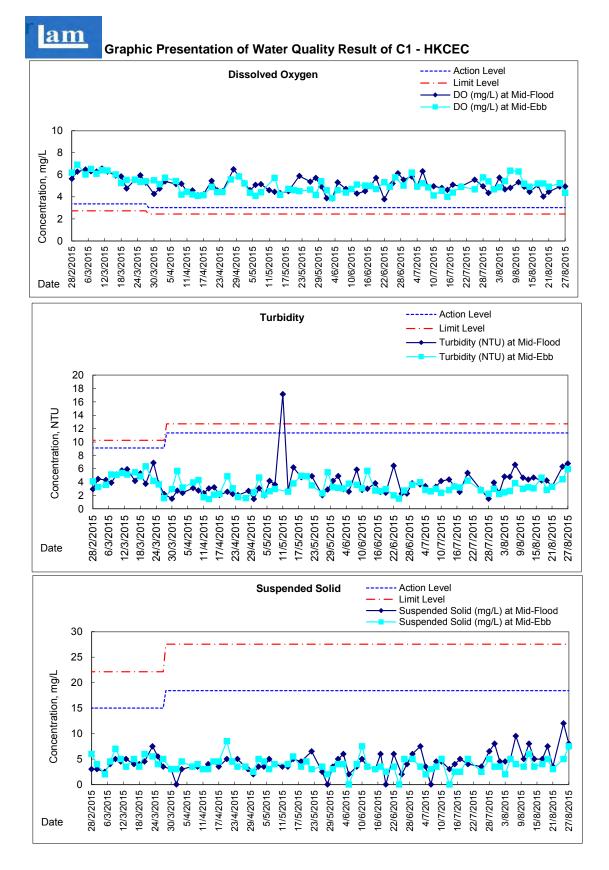
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Graphic Presentation of Water Quality Result of WSD19 - Sheung Wan



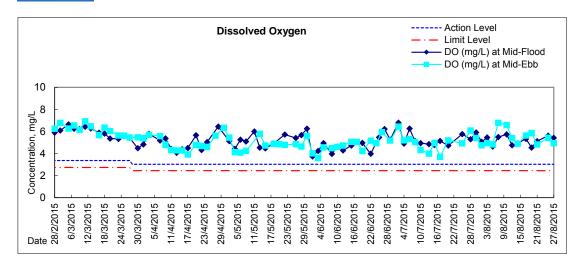


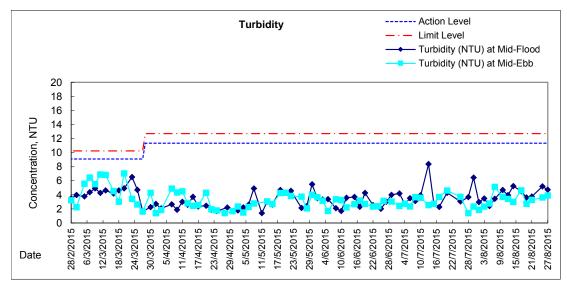


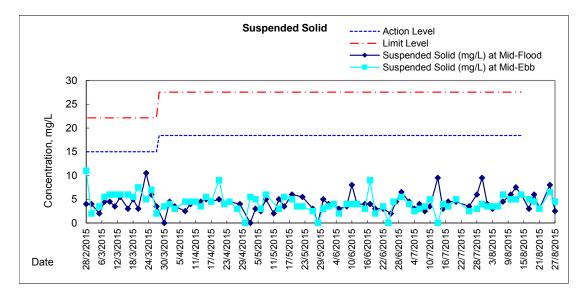




Graphic Presentation of Water Quality Result of P1 - HKCEC Phase I

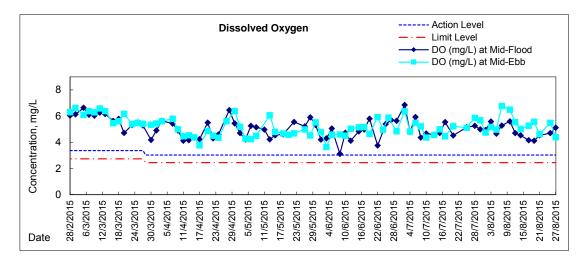


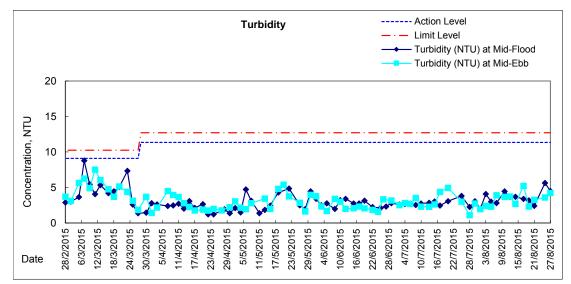


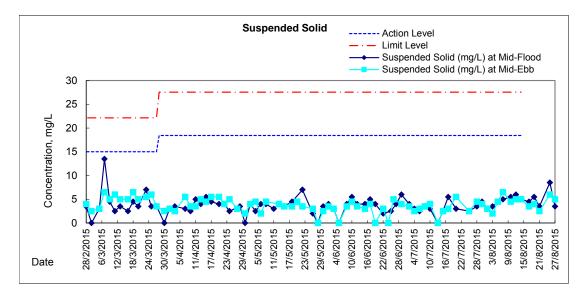




Graphic Presentation of Water Quality Result of P3 - APA

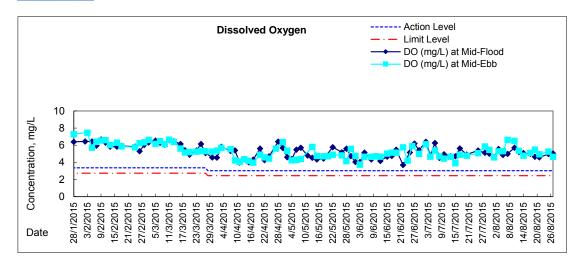


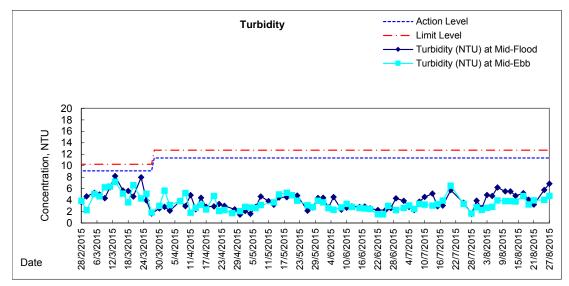


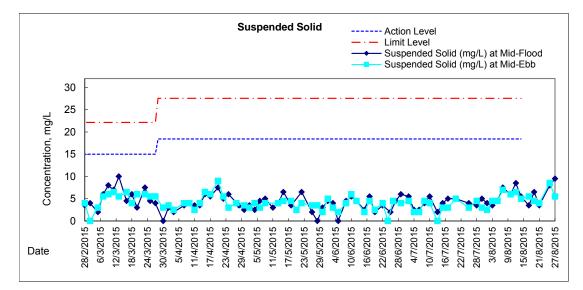




Graphic Presentation of Water Quality Result of P5 - WCT / RT / IT

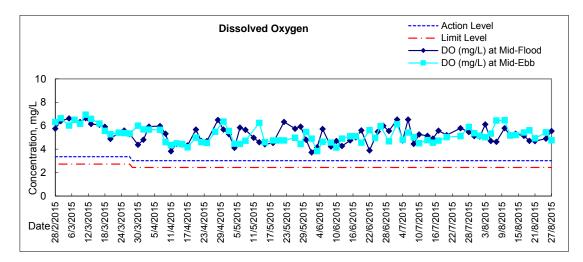


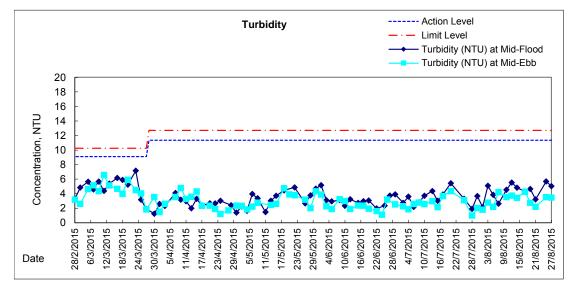


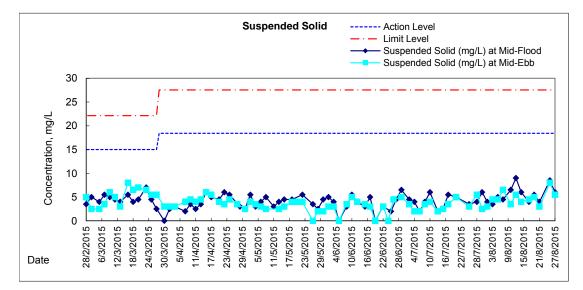




Graphic Presentation of Water Quality Result of P4 - SOC

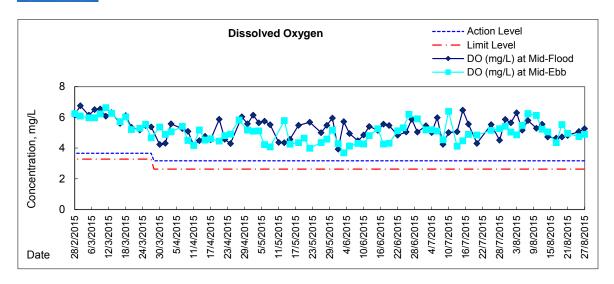


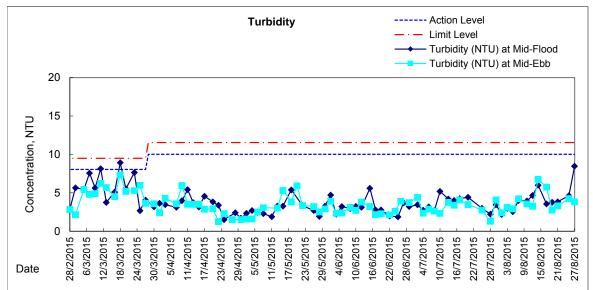


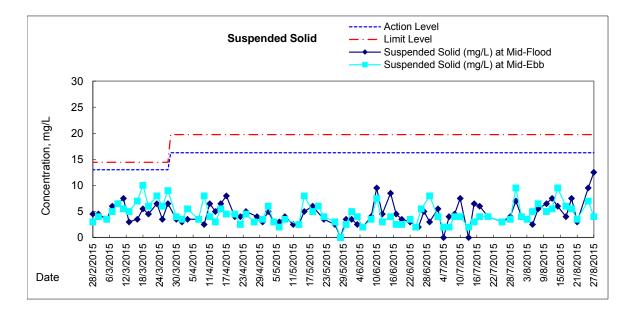


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Graphic Presentation of Water Quality Result of RW21-P789 - GEC/CRC/SHK

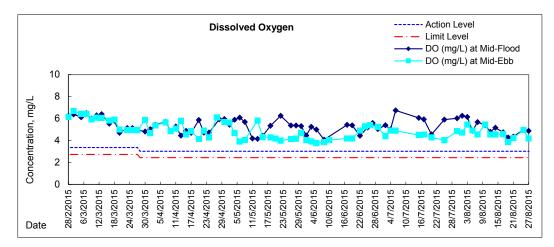


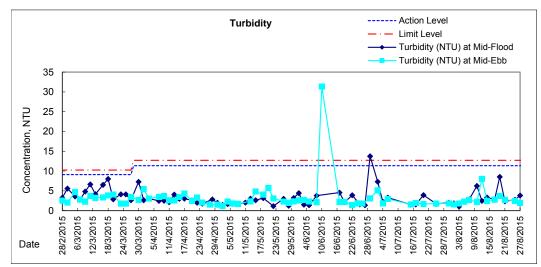


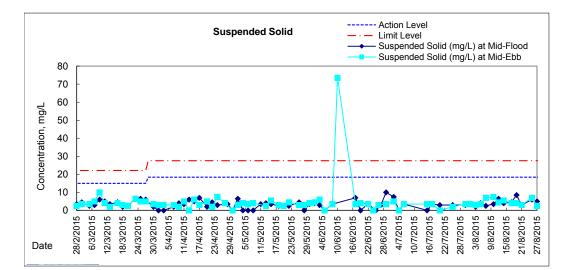


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Graphic Presentation of Water Quality Result of C7 - Windsor House

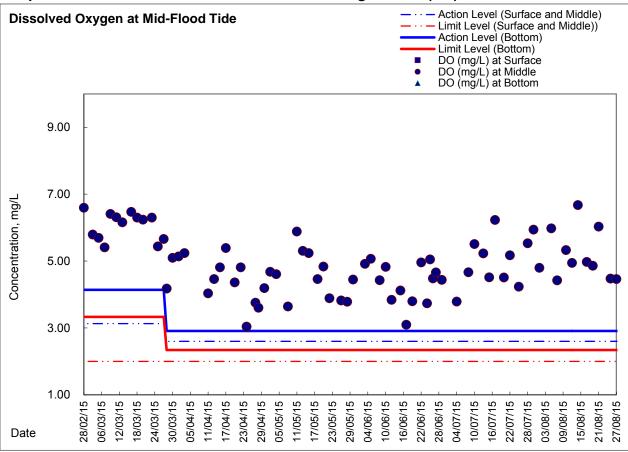


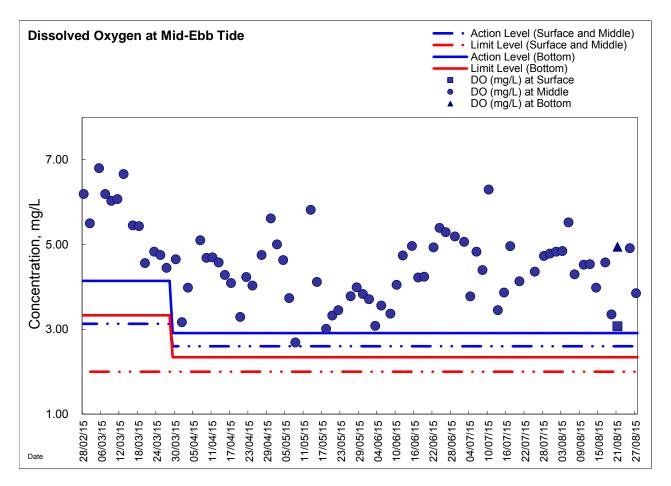






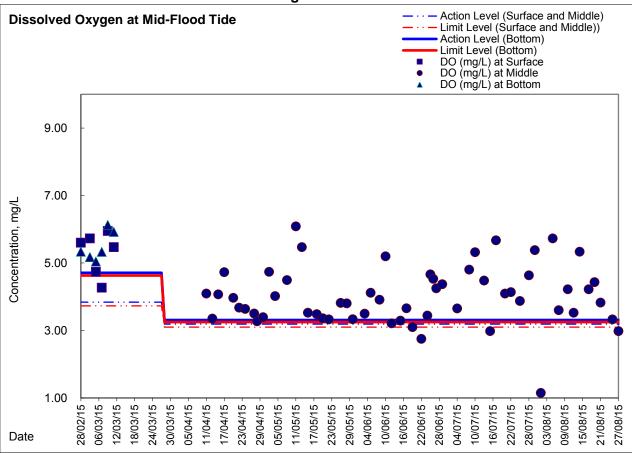
Graphic Presentation of Enhanced Water Monitoring Results (DO) at C6 - Excelsior Hotel

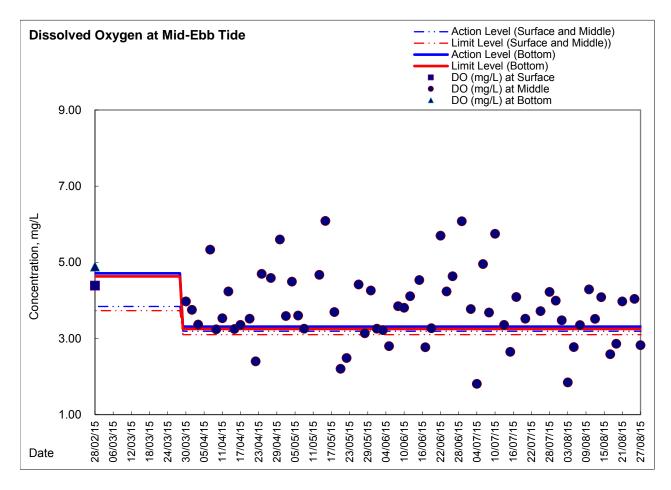






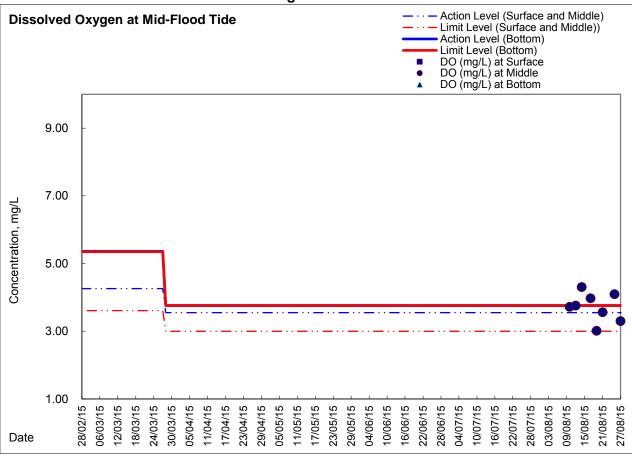
Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area

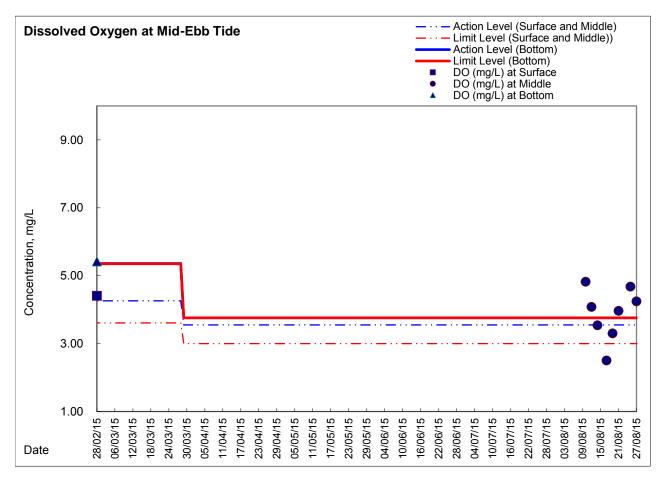






Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SE - South-eastern corners of ex-Public Cargo Works Area







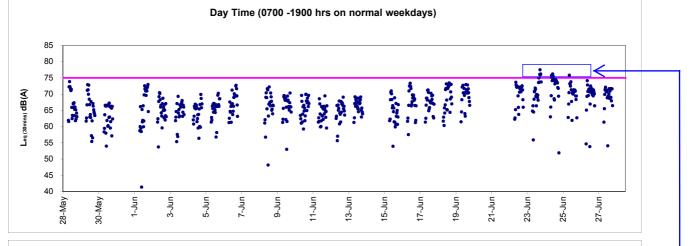
Appendix 4.4

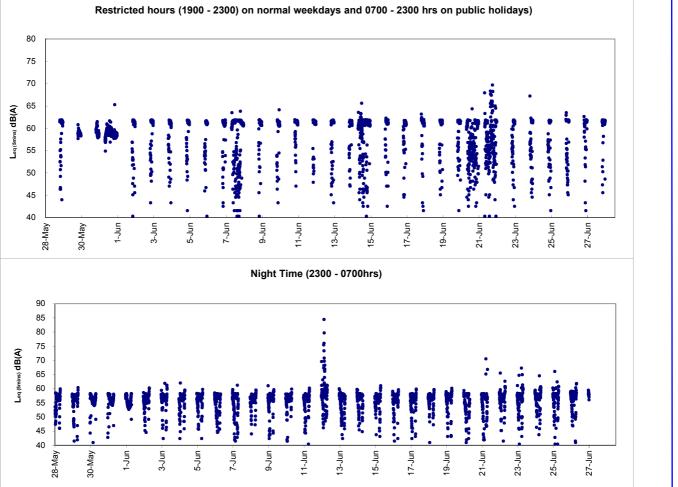
Real-time Noise Monitoring Results and Graphical Presentations



Contract no. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 2)





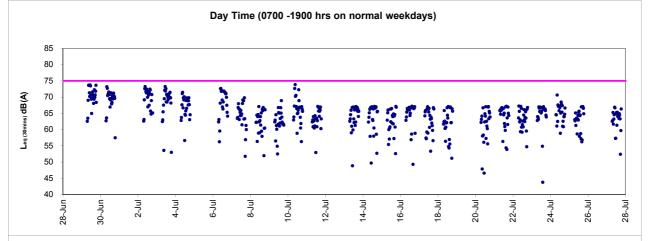


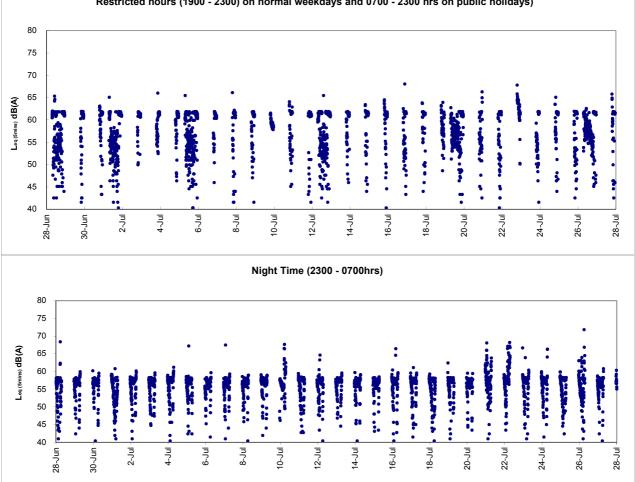
After checking with Contractor of HY/2009/19, pile cap breaking works was conducted on 23, 24 June 2015; and pile cap excavation works was conducted 25 June 2015. Noise mitigation measures including temporary noise barrier was implemented for the breaking works by the Contractor while breaking works and excavation works was noted on-going at the construction site located next to the monitoring station. In view of the above, the exceedances were considered to be non-Project related and contributed by nearby non-CWB construction site works. Nevertheless, the Contractor was reminded to strengthen the noise mitigation measures implemented for the pile cap demolition works to avoid potential cumulative impact to nearby sensitive receivers.



Contract no. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 2)

Graphic Presentation of Real Time Noise Monitoring Result (RTN2a- Hong Kong Electric Centre)



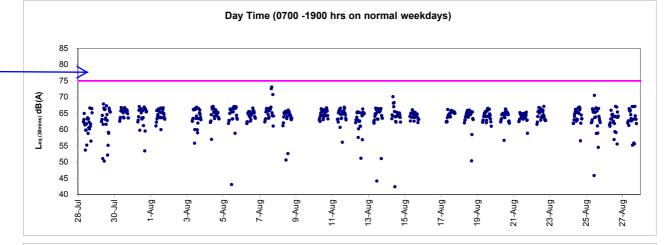


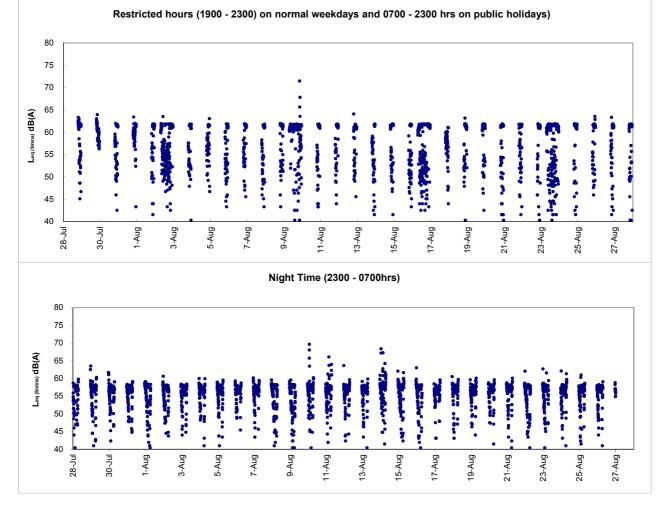
Restricted hours (1900 - 2300) on normal weekdays and 0700 - 2300 hrs on public holidays)



Contract no. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 2)

Graphic Presentation of Real Time Noise Monitoring Result (RTN2a- Hong Kong Electric Centre)







Appendix 5.1

Event Action Plans



Event/Action Plan for Construction Noise

EVENT	ACTION				
	ET	IEC	ER	CONTRACTOR	
Action Level being exceeded	 Notify ER, IEC and Contractor; Carry out investigation; Report the results of investigation to the IEC, ER and Contractor; Discuss with the IEC and Contractor on remedial measures required; Increase monitoring frequency to check mitigation effectiveness. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Review the investigation results submitted by the ET; Review the proposed remedial measures by the Contractor and advise the ER accordingly; Advise the ER on the effectiveness of the proposed remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Supervise the implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Submit noise mitigation proposals to IEC and ER; Implement noise mitigation proposals. (The above actions should be taken within 2 working days after the exceedance is identified) 	



EVENT		CTION		
	ET	IEC	ER	CONTRACTOR
Limit Level being exceeded	 Inform IEC, ER, Contractor and EPD; Repeat measurements to confirm findings; Increase monitoring frequency; 4. Identify source and investigate the cause of exceedance; 5. Carry out analysis of Contractor's working procedures; 6. Discuss with the IEC, Contractor and ER on remedial measures required; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Supervise the implementation of remedial measures; If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC and ER within 3 working days of notification; Implement the agreed proposals; Submit further proposal if problem still not under control; Stop the relevant portion of works as instructed by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)



Event / Action Plan for Construction Air Quality

EVENT		CTION			
	ET	IEC	ER	CONTRACTOR	
ACTION LEVEL					
1. Exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency to daily. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Check monitoring data submitted by ET; Check Contractor's working method. (The above actions should be taken within 2 working days after the exceedance is identified) 	Notify Contractor. (The above actions should be taken within 2 working days after the exceedance is identified)	 Rectify any unacceptable practice; Amend working methods if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified) 	
2. Exceedance for two or more consecutive samples	 Identify source; Inform IEC and ER; Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and ER; If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ET on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Submit proposals for remedial to ER within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified) 	
LIMIT LEVEL					
1. Exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform ER, Contractor and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified) 	
2. Exceedance for two or more consecutive samples	 Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified) 	



Event and Action Plan for Marine Water Quality

EVENT	ACTION						
	ET	IEC	ER	CONTRACTOR			
Action level being exceeded by one sampling day	Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; (The above actions should be taken within 1 working day after the exceedance is identified) Repeat measurement on next day of exceedance.	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and ER; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)			
Action level being exceeded by more than one consecutive sampling days	Identify source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; (The above actions should be taken within 1 working day after the exceedance is identified) Repeat measurement on next working day of exceedance.	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)			



EVENT		ACTION					
	ET	IEC	ER	CONTRACTOR			
Limit level being exceeded by one sampling day	Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform IEC, contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)			
Limit level being exceeded by more than one consecutive sampling days	Identify source(s) of impact; Inform IEC, contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures; Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine work until no exceedance of Limit level. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 3working days; Implement the agreed mitigation measures; As directed by the Engineer, to slow down or to stop all or part of the marine work or construction activities. (The above actions should be taken within 1 working day after the exceedance is identified)			



Appendix 6.1

Complaints Log



Environmental Complaints Log

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	tcome	Status
100321a	21/3/2010	ICC Case no. 1-224618029, Ms. Tsang	Location near Tin Hau	Complaint regarding the loud noise and dark smoke in the course of dredging works on 21 March 2010 (Sunday).	.,	A valid Construction Noise Permit no. GW-RS0119-10 was granted from EPD since 18 th Feb. 2010 for the dredging works which carry out at area for North Point Reclamation.	Closed
					2)	Officer from Marine Department, Police and EPD's officer attended the scene for inspection and investigation.	
					3)	The Contractor (CHEC-CRBC JV) strictly comply all the conditions in CNP and take all mitigation measures in order to minimize the potential impacts to surrounding sensitive receivers. A formal letter was issued out by CHEC-CRBC JV and to explain the status of the recent construction activities.	
					4)	No limit level exceedance was recorded on the noise measurement during day time and evening time noise measurement on 23 March 2010. Additional restrict hours noise monitoring at Causeway Bay Community and City Garden was conducted on 5 April 2010 (Public Holiday). No limit level exceedance was recorded in the monitoring.	
					5)	No further complaints were received from Mr. Tsang in the reporting month. The complaint is considered closed.	
100321b		regarding loud noises emanated		A valid Construction Noise Permit no. GW-RS0119-10 was granted from EPD since 18 th Feb. 2010 for the dredging works at area for North Point Reclamation during general holidays including Sunday between 0700-2300 hours and any day not being a general holiday between 1900-2300hours. It is complied with the condition of CNP.	Closed		
		2010(Monday). 2) Officer from Marine Department, Police and EPD's officer attended the scene for inspection and investigation.	Officer from Marine Department, Police and EPD's officer attended the scene for inspection and investigation.				
					3)	No limit level exceedance was recorded on the noise measurement during day time and evening time noise measurement on 23 March 2010. Additional restrict hours noise monitoring at Causeway Bay Community and City Garden was conducted on 5 April 2010 (Public Holiday). No limit level exceedance was recorded in the monitoring.	
					4)	No further complaints were received in the reporting month. The complaint is considered closed.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	tcome	Status
100504	4/5/2010	Public complainant received by ICC (ICC case: 1-	Watson Road	Complaint on the noise nuisance due to the large scale of dredging machine (face to Island East Corridor) in particular the		Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0119-10 for their dredging works. Contractor has implemented mitigation measures to reduce the working hour not later than 2230.	Closed
		233384048)		hours 1900 to 0800 and request to reduce the noise level.	 According to RSS 's record, no more daytime and night time dredging since the departure of the split hopper barge from the workplace on 29 April 2010 at 1900 hrs to 5 May 2010. 		
					3)	No further complaints were received in the reporting month. The complaint is considered closed.	
100731	31/7/2010	2010 Mr. Lee received by ICC (CC Case: 1-250702681)		due to the dredging works.	1)	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works.	Closed
					2)	There was only 1 grab dredger operated by Contractor within NPR project site area for dredging works.	
					3)	No noise exceedance was recorded at noise monitoring station at Victoria Centre on 27 July and 3 August 2010 during daytime and evening time period.	
					4)	It is considered as invalid from the EP and CNP point of view.	
100812	12/8/2010	Harbour Heights (Management) Ltd. Harbour Heights (Management) Ltd. Harbour Height diredging works at the marine works area adjacent to the Harbour Height during the period	Harbour Heights (Management)	their resident complained on the noise nuisance from the	1)	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works. Contractor has implemented mitigation measures to reduce the working hour not later than 2230.	Closed
			No noise exceedance was recorded at noise monitoring station at Victoria Centre on 10 and 17 August 2010 during daytime and evening time period.				
					3)	It is considered as invalid complaint. No further complaints were received in the reporting month. The complaint is considered closed.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	tcome	Status								
101108	8/11/2010	Mr. Nip received by ICC (CC Case)	Sai Wan Ho	Visual concern around the seaside silt screen outside the WSD freshwater intake pump at Sai Wan Ho (Monitoring station ref no WSD15)	1)	Contractor for HY/2009/11has been regular checked of condition and removal of trapped rubbish before the dismantling of the floating silt screen to be replaced by wall mount silt screen.	Closed								
					2)	Follow-up action had been immediately carried out to check and clear the floating refuse around the seaside silt screen after receipt of the complaint.									
					3)	Removal of seaside silt screen outside the WSD freshwater intake (WSD15) by contractor HY/2009/11 was checked and confirmed dated 9 November 2010. Silt screen has been deployed into the existing steel frame at WSD15 for the protection of WSD salt water intake.									
101110	10/11/2010	Mr. Wong, Harbour Heights (Management) Ltd.	Harbour Heights	Management office received their resident complained on the noise nuisance from the power mechanical equipment during the 0700 to 2200hrs		Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0870-10 for their dredging works during evening time. Contractor has implemented mitigation measures to reduce the working hour not later than 2230.	Closed								
					2)	No noise exceedance was recorded at noise monitoring station at Victoria Centre on 4 and 10 November 2010 during daytime and evening time period.									
													3)	It is considered as invalid complaint. No further complaints were received in the reporting month. The complaint is considered closed.	
	3/12/2010, 01:45a.m.	The resident of Block 11, City Garden by ICC referral from Marine	North Point	Bad odour was generated from the dredging plant off North Point		The first investigation was carried out by Marine Department patrol in the morning on 3 Dec 2010 at around 10:00 and revealed that a few working barges were anchoring in the vicinity without carrying out dredging work.	Closed								
		Department			2)	A further specific investigation inspection on contractor's backhoe barge in the vicinity of City Garden was jointly conducted with Engineer Representatives (AECOM/RSS), and ET on 8 Dec 2010 at 11:30. No bad odour was noted during the investigation.									
					3)	Routine dredging operation of the backhoe barge was performed during the jointed investigation inspection and it was revealed that no bad odour was attributed by the dredged materials inspected.									
101206	6/12/2010	Ms Lui, the resident of 27/F, Block 10, City	City Garden, North Point	Two barges were generating noise at 22:00 on 6 December 2010 in which the noise from	.,	ET confirmed the following information with resident site staff on the complaint: • It was referred to the filling operation at North Point	Closed								



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		Garden by ICC (ICC case: 1- 266039336)		filling operation was louder than the traffic noise & visual impact was generated due to the spot- light pointing directly to the complainant flat, suspected the filling operation was part of Wanchai Development Phase II; Complainant also raised the same complaint to District Councillor, Mr. Hui on 7 Dec 2010 regarding the night-time noise and suspected earlier start of work at 06:30. Complaint also requested for limiting the plant operating hours from 09:00- 21:00.	 Reclamation of Central Wan Chai Bypass site area instead of part of Wanchai Development Phase II; Two derrick barges were in operation at the time of complaint for placing 400 rockfill onto the excavation trench and for levelling the formation level to receive the pre-cast caisson seawall; Flood light on the control mast of derrick barge have no lighting shields for the prevention of glare of flood lights; No starting work on 7 Dec 2010 at 0630hours. PME used in restricted hours were checked and confirmed compliant with valid CNP no. GW-RS0870-10. The noise level recorded on 6 Dec 2010 was complied with the noise criteria during restricted hour; It was found that the occasional noise nuisance might be caused by the hitting or scratching onto the rock surface during loading down the grab onto the Grade 400 rockfill; The absence of the lighting shields at flood light results in visual glare to the compliant at night-time. Contractor was advised to minimize the finishing time of placing Grade 400 rockfill at 2100hrs and switch off all unnecessary flood lights apart from the light for the safety and security purpose; No further complaint was received after implementation of proposed measures 	
110415	15/04/2011	The resident, Mr Law at Victoria Centre by ICC (ICC#1- 281451236)	North Point	A dust generation and a concern of mosquitoes breeding complaint in which suspected the filling operation was part of North Point Reclamation.	 The concerned stockpile was a working stockpile under Contract HY/209/15 and was covered at night time after work. Water spraying on the haul road and potential dust generating material at least 4 times a day was conducted by contractor that complies with the requirement. It is considered invalid but preventive actions can be taken because the stockpile is relatively large and easily visible by complainant. It was recommended that increasing the frequency of water spraying shall be conducted to all potential dust generating materials and activities. Besides, Contractor should consider to cover the idle part of the stockpile The concern of mosquitoes breeding is out the scope of EM&A, the follow-up action is not reported in this monthly EM&A report. 	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	come	Status
110419	19/04/2011	Ms Chiu at Victoria Centre at Victoria Centre by ICC (ICC# 1- 272874759)	North Point	The episode of night noise on 19/4/11 and 20/4/11 at 2:50 am and the noise lasted for 30 minutes per night.	,,	According to the RSS's record, there was no construction works undertaken under the EP-356/2009 during the concern time period. There was no abnormal real-time noise monitoring data recorded in RTN1 - FEHD Hong Kong Transport Section Whitefield Depot which is next to the Victoria Centre. It is considered as invalid complaint under this Project.	Closed
110617	9/06/2011	Mr. Law from Victoria Centre Management Office	North Point	An odour nuisance suspected generating from the discharge point – Channel T at Watson Road in part of the site area was related to CWB under Contract no. HY/2009/11	1)	The complaint was received by ET on 13 Jun 2011. During the weekly site inspection on 7 and 17 June 2011, there was no any odour impact detected in the site area. According to the site record, there was muddy water discharged from the unknown source at upstream of Channel T during heavy rainstorm. No any site surface runoff to the Channel T and out of site boundary was	Closed
					3)	observed in the inspection. In order to prevent muddy water washing out to the water body under heavy rainstorm, a silt curtain was installed at the outfall of the channel by Contractor. ET confirmed with the Resident Site Staff that a silt curtain was installed at the outfall of the channel to prevent muddy water washing out to the water body under heavy rainstorm. Besides, regular cleaning of refuse in the channel has been conducted by Contractor.	
					no odour nuisance was detected at the upstrear Channel T and no source of odour nuisance was i	A further site investigation on 28 June 2011 revealed that no odour nuisance was detected at the upstream of the Channel T and no source of odour nuisance was identified at site. As such, it was concluded that the source of odour nuisance was not related to the Project works.	
					5)	Although no source of odour nuisance was identified at site, the muddy water and dirt from the unknown source at upstream of Channel T may cause a potential smell during low tide and low water flow. Contractor was reminded to remove the silt curtain at the channel on non-rainy day so as to avoid the accumulation of the sediment and dirt in the water channel.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	tcome	Status
110709	09/07/2011	Mr. Au from City Garden Management Office	North Point	A complaint letter to Contractor HY/2009/11 was raised by Cayley Property Management Limit on 9 July 2011 regarding a series of pump breakdown events at seawater intake of City Garden on 4, 6, 7 and 8 July 2011. A lot of rubbish such as plastic bags, nylon bags, nylon- wire mesh was observed sucking from the seawater intake at the seawater front of Block 7 of City Garden affecting the operation of seawater pump plant.	2)	Contractor conducted formation works for installation of caisson seawall at C27, C28, C29 and C30 on 4, 6, 7 and 8 July 2011 and no dredging work was conducted during this time period Water mitigation measures of an 80m long silt curtain at the site boundary in front of City Garden Relocation of silt curtain and silt curtain at the outfall of the channel were provided and maintained to accommodate the site works. All vessels are equipped with rubbish collection facilities and disposed the rubbish regularly. Also, daily cleaning actions had been taken by contractor to minimize floating refuse within the site boundary. Moreover, it has been reported several times that discharged from outfall pipeline outside the site boundary near the intake of the pump maybe considered as another source of rubbish generation. Referring to the record provided by Cayley Property	Closed
						Management Limit, the trapped rubbish was unlikely generated from the construction works. It was considered that complaint is invalid and not related to project.	
110710	09/07/2011	Complainant by ICC (ICC no. 1- 301520309	North Point	It was received at 00:56 on 10 July 2011. There was complained a derrick barge unloading rockfill material off the shore facing the Harbour Grant HK Hotel causing noise nuisance.		ET confirmed with the Resident Site Staff that the complaint was referred to Contract HY/2009/15 for the loading and unloading of fill material at two barges operation in the sea at around 300m adjacent to Island Eastern Corridor (Oil Street Chainage) where is outside the Site of HY/2009/15 in the period of around 19:45 on 9 July to 1:00 on 10 July 2011.	Closed
					2)	The material loading and unloading operation processed in restricted hours was checked without a valid CNP. It was found that the operation was due to an unexpected water leakage of the hopper barge and considered an incident.	
					3)	According to the incident report provided from RSS on 20 July 2011, around 7:30 pm the barge S22 was inclined slightly and slightly water leakage might occur. Due to marine safety concern, the hopper barge would open the hopper to release the contained materials in order to reduce the weight and stabilize the barge. In consider of slight water leakage, the operator decided to use the nearby Derrick Barge ST32 to help for unload the general fill materials first and the unloading operation was started at around 7:45pm, and end at around 1:00 am. Contractor was reminder to provide frequent check of vessel condition	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	come	Status
						so as to prevent recurrent by barge defect	
110723a	23/07/2011	Ms. Law at Victoria Centre by ICC no. 1- 303887687	North Point	She concerned that Highways Department published a notice in their Management Office about construction works will be conducted from 0700 hours to 2300 hours during July to December 2011 including	1) 2)	It was referred by AECOM to ET on 28 July 2011 RSS confirmed that the notice was prepared by Victoria Centre's Management office to their resident and the advice was only given on the extension construction works (for Contract HY/2009/15) to 7am-9pm from Monday to Saturday except Public Holidays and Sundays.	
				Saturday, Sunday and public holiday.	3)	As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am and is expected to be completed by mid- August 2011.	Closed
					4)	No noise exceedance was recorded at construction noise monitoring station at Victoria Centre on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring.	
			5)	In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.			
110723b	23/07/2011	Ms. Yau at Block 2, Victoria Centre by ICC no. 1- 304013959	North Point	Reclamation work was conducted at Causeway Bay Typhoon Shelter at 7am on 23 July 2011. She complained that the works shall be started later to minimize the noise nuisance	1) 2)	It was referred by AECOM to ET on 8 August 2011 With reference to the construction noise monitoring at Vitoria Centre, no exceedance was recorded on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring	
				to the vicinity of the residents in early morning	3)	As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am and is expected to be completed by mid- August 2011.	Closed
					4)	In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.	
110727a	27/07/2011	Mr. Law from Victoria Centre Management Office by ICC no. 1-304616162	North Point	It was complained by Mr. Law from Victoria Centre Management Office on 27 July 2011 regarding construction noise generated by the construction operations of	2)	It was referred by AECOM to ET on 28 July 2011 RSS confirmed to start the rock breaking activities for Contract HY/2009/15 at 8am as a mitigation measure to minimize the noise nuisance in the vicinity of the residents. No noise exceedance was recorded at construction noise	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Ou	tcome	Status
				Central-Wanchai Bypass at noon rather than in morning at 7am.		monitoring station at Victoria Centre on 25 July and 4 August 2011 during daytime while breaking and excavation works were undertaken during monitoring.	
					4)	In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. No further complaint from complainant was received after proposed the mitigation measure.	
110727b	27/07/2011	Ms. Chiu by ICC no.1-304615409	North Point	Noise nuisance from the excavation works for the Highways Department adjacent to the Victoria Centre was conducted from 7am	2)	It was referred by AECOM to ET on 28 July 2011 With reference to the construction noise monitoring at Vitoria Centre, no exceedance was recorded on 25 July and 4 and 10 August 2011 during daytime while breaking and excavation works were undertaken during monitoring. As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am.	
	08/08/2011				4)	However, complainant did not satisfy with the response on the noise nuisance from the rock-breaking during morning in front of Victoria Centre and then further complaint via 1823 on 7 August 2011.	Closed
					5)	Highways contacted the complainant on 15 August 2011 that the noisy rock breaking operation had been completed.	
					Re	marks: There will be counted as two complaints in this complaint log.	
110810	10/08/2011	Mr. Yip by ICC no. 1 – 306740207	North Point	Muddy water was discharged from work site to the seafront near Oil Street during heavy rain. The environmental protection measures were not good enough and are needed to rectify.	2)	It was referred by AECOM to ET on 17 August 2011. Confirmed with RE, Muddy water was caused by a heap of earth being washed to the sea by heavy rain. The heap of earth was referred as a small stockpile placed close to the seafront in front of Oil Street within the site area under handover transition period from contract HY/2009/11 to contract HY/2009/19. The necessary mitigation measures to protect the small stockpile against rainfall were missing at the time of complaint.	Closed
					3)	Due to the missing of mitigation measures to protect the small stockpile during handover transition period, loose material was washed into the harbour when heavy rain came. Muddy water was formed and dispersed in the sea that caused the water quality and visual concern to the public. The complaint was considered as valid. Contractors were advised to relocate the loose materials	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	come	Status
						away from the coastline as far as practicable. Any loose material placed which needed to be placed near the coastline shall be properly compacted or covered as appropriate. To avoid any further environmental deficiency, Contractors shall ensure all necessary environmental mitigation measures will not be missing during site area handover.	
110826	26/08/2011	Grand Hyatt and a complainant by ICC	а	Construction noise and vibration nuisance generated from the works at Convention Avenue and inside the HKCEC1 reclamation area.	1) 2)	Confirmed with the Resident Site Staff that the construction works were referred to the Contractor HK/2009/01. The Excavator mounted breaker at Convention Avenue and Drilling rig at HKCEC1 reclamation area were the dominant construction noise source during this period.	
					3)	The drilling rig at HKCEC1 reclamation area and excavator mounted breaker at Convention Avenue were then temporary suspended after received the complaint.	
					4)	Investigation revealed that the erected noise barrier (4m cantilevered movable noise barrier for the drilling rig and 1m movable noise barrier for the excavator mounted breaker) were not located close to the plants to provide adequate noise screening.	Closed
					5)	Contractor was advised to avoid concurrent operation of construction plants at site. Further enhancement of movable noise barriers at HKCEC1 and providing noise enclosure for the excavator mounted breaker at Convention Avenue are needed.	
					6)	Further site investigation and checking on 31 August and 7 September 2011 revealed that the implemented noise mitigation measures were in proper and minimize the noise impact.	
110826A	26/08/2011	A complaint letter from Mr. Au of Cayley Property of City Garden	North Point	Harbor front adjacent to their cooling water intake suction which caused 3 times of system breakdown of the sea water pump on 9, 22 and 25 August 2011.	1)	It was referred by AECOM to ET on 29 August 2011. Confirmed with the Resident Site Staff that the • construction works were referred to the Contractors HY/2009/11 and HY/2009/19. • The pump is located on the site area of HY/2009/19 • A temporary garbage defender was installed on 23 July 2011 by HY/2009/11 and the shape of the defender was adjusted on 8 August 2011 in order to excluse the outfall.	Closed
						 An ad hoc inspection of the effectiveness of garbage defender was conducted with RSS (CWB project 	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	come	Status
						team), contractor of HY/200911 and HY/2009/19 and IECon 29 August 2011. Inspection report of it was submitted to RSS on 19 September 2011.	
						 Daily cleaning near the water intake was conducted twice a day by contractor HY/2009/19. 	
						 In response to City Garden request, the contractors have set up the temporary garbage defender in function and collect the floating refuses, but cannot eliminate all refuses, in particular the refuse coming from the seabed 	
					2)	According to the complaint letter from Cayley Property, the outcomes of the preventive measures were not complying wih their expectation.	
					3)	During on-site inspection, floating refuses observed occasionally outside the garbage defender. No conclusion could be made for the source of these floating refuses. On the other hand, some of the refuses were observed floating behind the garbage defender during investigation.	
					4)	All daily cleaning actions had been taken by contractor to minimize floating refuse inside the construction site.	
					5)	It was noted that the cooling water intake was accessible to the public. As such, fish breeding and fishing activities were observed even though a notice has already hoisted. Also, tripping of rubbish by the passers-by could result in a lot of rubbish accumulated around the intake point.	
					6)	Referring to the record provided by CPML, there were a lot of nylon/ plastic bags and nylon wire mesh that matched those rubbishes generated from the public activities.	
					7)	Contractors have fulfilled the requirement of site cleanness and no exceedance was recorded during Water Quality Monitoring. It is consider the cause of this complaint is not related to project and environmental issue in this project as well. No more complaint received after ad-hoc inspection	
111014	14/10/2011	The complainant, Ms. Tam complained via hotline 1823	Wan Chai	The polluted fumes and exhaust from the excavation by sub-contractor of CEDD on pedestrian way outside no.25 Harbour Road (in front of the Harbour Centre)	1) 2)	RSS notified ET to carry out investigation on 17 October 2011. ET confirmed with the Resident Site Staff that the location of the excavator was within site area of Contract no. HK/2009/02 undertaking the water cooling main reprovision works along the Harbour Road. The plants including the excavator have been checked before using	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					 at the site. However, the polluted fumes and exhausted from the excavator was caused due to insufficient maintenance of the plant after using at site. 3) After receiving the complaint, the excavator was then removal off-site for checking and maintenance works on 17 October 2011. 	
					 Contractor was reminded to enhance regular checking and maintenance to all plants at site. RSS has replied to the complainant on the arrangement of the measures taken on 17 October 2011. Complainant was satisfied with the response and follow-up action taken by the Contractor. 	
111104	04/11/2011	Mr. Liu from LCSD complained via Contractor Complaint Hotline	Wan Chai	Complain about a tree near the site of pipe installation works outside Wan Chai Swimming Pool at Harbour Road, the status is not healthy and roof ball of two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue were half cut.	 ET confirmed with the Resident Site Staff that A tree near the site of pipe installation works outside Wan Chai Swimming Pool at Harbour Road is the Tree no. TA1122 under Contract no. HK/2009/02. Leaves of a branch of this tree were shrivelled. Two trees inside the site near Renaissance Hong Kong Harbour View Hotel at Convention Avenue are the tree nos. A160 and A161 under Contract no. HK/2009/01. Part of roof ball of these two trees was covered by the metal plate. Independent Tree Specialists for these two inspected the trees. Contractor HK/2009/01 has taken the measure as recommend downgrading the soil level around the trunk base. Reinstating of the ground works will be conducted in mid-December 2011. For the tree no. TA1122 under Contract no. HK/2009/02, the brown leaves were removed and fenced the tree with orange net is provided to prevent damage of tree trunk by construction works. The distance between the tree and the edge of the trench is kept approximate 2m. Two Contractors were reminded to carry out regular watering to the trees within their site area. 	Waiting RSS respond
111106	06/11/2011	Police officer	Wan Chai	Construction noise generated from the site at about 6:30 a.m on 6 November 2011 and require to stop the machine operation	 According to the information reported by Contractor, one BC cutter and hoist were operated for Diaphragm Wall construction of Shatin-Central Link to inspect bentonite pipes and ensure no damages and all the joints are tightened in good position. Then, the subcontractor for Diaphragm wall, SAMBO Korean foreman stopped the engine of the BC cutter immediately. The police officer recorded the details and HKID number of the foreman and then left. Due to the different language communication between the police officer and the Korean foreman, no 	Keep in view for three months from the date of complaint recevied



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	come	Status
					2)	CNP was checked by the police officer. ET confirmed with the Resident Site Staff that same issue was also raised out by RSS at about 7:00a.m on the same day. Besides, it was confirmed that there is no valid Construction Noise Permit for the conducted construction works in the period between 2300 and 0700.	
					3)	Due to insufficient communication between Contractor HK/2009/01 and their Korean Sub-contractor, Korean Sub-contractor had not notified to Contractor before carrying out the inspection of the BC cutter, hoists and bentonite pipes at about 6:00a.m to ensure no damages and all the pipe joints should be tightened and in good position.	
					4)	Contractor was advised to enhance the communication between Contractor and sub-contractor and provide sufficient environmental training to all foreman and operators on restricted hour operation. Futhermore, Construction Noise Permit should be checked and in place for the construction works during restricted hour	
					5)	This complaint was considered in relation to the conducted construction works during restricted hours without valid Construction Noise Permit. No more construction works were conducted during night time period. The construction works will be conducted in accordance with the time period stated in valid CNP. This complaint will be kept in view of any follow-up action from the relevant government activities.	
120405	05/04/2012	N/A	North Point	A complaint regarding excessive noise from construction sites of CBTS was observed daily before 7:30am except on public holidays, and the noise source was mainly from piling works. The complainant requested that construction works should start after 8:30am to avoid nuisance to nearby residents and a speedy follow-up and reply.	2)	RSS notified ET on 5 April 2012. ET confirmed with the Resident Site Staff that no piling works were performed during the concerned period. After reviewing the results of noise monitoring (M2b and M3a), no exceedance was recorded during daytime period and the noise level was below 75dB(A). Site inspection for HY/2009/15 was conducted on 10 April 2012. The condition of noise mitigation measures around CBTS was found satisfactory. RSS confirmed that no pilings were performed during the concerned period. The major works included drilling, diaphragm wall construction and excavations. HyD made a reply to the complainant on 16 April 2012 via 1823. HyD replied that the current works at CBTS were drilling, diaphragm wall construction and deep excavations. In order to minimize the noise generated	Closed



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					from the above works, the Contractor had erected temporary noise barriers and provided noise blankets on plants. RSS would continue to work with the Contractor on the effectiveness of the environmental mitigation measures implemented on site. No further complaint was received after the response.	
130308	06/03/2013	ICC Case#1- 407181502	Tin Hau	A complaint regarding the dropping of fine rock material into surrounding waterbody was observed during rock breaking operation with two excavators in active operation at the Eastern Breakwater of Causeway Bay Typhoon Shelter near the North Point lighthouse.	 RSS notified ET on 8 March 2013 ET confirmed with RSS that excavation works, installation of buoy, flashing light and silt curtain and dredging works were undertaken at Eastern Breakwater during the concerned period on 6 March 2013. One backhoe equipped with breaker and one derrick barge were confirmed in operation while another backhoe was at idle during the concerned period on 6 March 2013. Reviewing the photo record provided by RSS, the condition of the silt curtain deployed around the Eastern Breakwater on 6 March 2013 was found to be in good condition. It is considered that the silt curtain was properly in place during the concerned period and the concerned act of dropping of fine rock material was confined within the silt curtain boundary without adverse impact to the nearby water quality. Further follow up was conducted on 12 March 2013 during weekly environmental audit inspection, the silt curtain deployed around the concerned area was found to be maintained in good condition and the water quality at the concerned work area was generally satisfactory. No violation of the Environmental Permit condition was found. The contracotr was advised and committed to implement preventive meaures to miminize the potential impact of work including conducting regular diver check to ensure the integrity and the extend of silt curtain deployment and to provide adequtae back up stock of silt curtain for emergency use. 	Closed
140612	12/06/2014	EPD ref: EP/860/F2/24 Annex IV	Wan Chai	The complaint is regarding to the water quality of the waterfront outside the Hong Kong Academy for Performing Arts Theatre Block, where a large piece of muddy water was found.	letter from EPD (ref: EP/860/F2/24 Annex IV) was received by ET on 13 June 2014.	Interim Report was submitted to EPD on 20 June 2014.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	come	Status
					3)	the dispersion was observed partly extended beyond the outermost layer silt curtain at 1000hrs. Immediate follow up action was requested. It is considered that Contractor's mitigation measures would require further review on the effectiveness to avoid seepage of muddy dispersion such as regular diver inspection check and daily visual checking of silt curtains. Additional silt curtain at marine access zone was installed by Contractor on 12 June 2014 and the double layer silt curtain were generally in order. Follow-up inspection was further conducted on 16 June 2014. The Contractor's investigation report on the complaint	
140723	21/07/2014	ICC Case Ref: 2-341537112	Works area opposite to Ngan Tao Building	The complaint is regarding to construction noise impact to the complainant who could not sleep due to work and machine at the project site opposite to the Ngan Tao Building.	2)	case was submitted to EPA via email on 18 June 2014. Construction noise impact referred by RSS was received by ET on 25 July 2014 ET confirmed with RSS that horizontal cutting and removal of D-wall at Eastern, Southern and Northern side of TS2 was undertaken by Contractor of HY/2009/15 within Causeway Bay Typhoon Shelter before 23:00hrs on 20 July 2014 that total 3 numbers of derrick lighter and 3 numbers of saw cut machine were in operation, and removal of D-wall at Panel S30A-1 of TS2 was undertaken by Contractor of HY/2009/15 within Causeway Bay Typhoon Shelter around 00:25hrs to 00:56hrs on 21 July 2014 that total 1 number of derrick lighter was in operation. According to the relevant site records under Contract HY/2009/15, before 23:00hrs on 20 July 2014, horizontal cutting and removal of Diaphragm Wall at Eastern, Southern and Northern side of TS2 was conducted under HY/2009/15 within Causeway Bay Typhoon Shelter. Total 3 nos. of derrick lighter and 3 nos. of saw cut machine were in operation at the above period. From around 00:25hrs to 00:56hrs on 21 July 2014, removal of D-wall at Panel S30A-1 of TS2 was undertaken by Contractor of HY/2009/15 within Causeway Bay Typhoon Shelter. Total 1 no. of derrick lighter was found operating at the above period It was considered the condition of CNP GW-RS0592-14 was not fulfilled by the Contractor of HY/2009/15. "From 00:25hrs to 00:57hrs on 21 July 2014, the PME(s) (1 no. of Derrick Lighter) on-site could not follow with any given PME grouping requirement(s) as stated in condition 3.a.	Final report (Issue1) issued on 31 July 2014. Further to complainant follow-up, Final report (Issue2) Issued on 12 Aug 2014.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					 Notwithstanding the above, according to the site recorded provided by the RSS, the derrick lighter was found malfunction at around 23:00hrs on 20 July 2014 while the diaphragm wall cutting procedure was incomplete. Under safety and navigation consideration, the completion of diaphragm wall removal was necessary and of imminent need. 5) The Contractor of HY/2009/15 was advised to review the construction sequence and emergency response procedure for construction activities during restricted hours and night time period to allow for sufficient buffer time for work completion such that the Construction Noise Permit would be followed. Furthermore, the Contractor of HY/2009/15 was suggested to conduct throughout checking of PME used on site prior to work 	
141016	14/10/2014	EPD Ref.: EP860/E2/24 Annex IV ICC complaint received by ET on 10 October 2014	Work site next to new Wan Chai Ferry Pier and opposite to Wan Chai Sports Ground.	Construction noise like piling works was heard on 14 October 2014 night until 23:45 hrs. It was suspected that the noise was emanated from the work site next to new Wan Chai Ferry Pier and opposite to Wan Chai Sports Ground.	works. A public complaint regarding construction noise impact referred by EPD was received by ET on 16 October 2014 (EPD Ref.: EP860/E2/24 Annex IV dated 16 October 2014). The complainant reported that construction noise like piling works was heard on 14 October 2014 night until 23:45 hrs. It was suspected that the noise was emanated from the work site next to new Wan Chai Ferry Pier and opposite to Wan Chai Sports Ground. ET confirmed with the Resident Site Staff that From 19:00hrs to 23:00hrs on 14 October 2014, dredging works was are during Contention of the Content of t	Interim investigation report submitted to EPD on 23 October 2014. Updated interim investigatio
					 conducted under Contractor of HK/2009/02 at WCR3 Area. Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02. From 23:00 hrs to 05:00 hrs, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area. Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02. 	n with supplement ary information submitted to EPD on 17 November 2014



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					From 23:00 hrs to 06:00hrs, panel replacement works was conducted under Contractor of HK/2009/02 at the Temporary Covered Walkway.	
					Total one scissor platform and two hand held drills (battery) were in operation.	
					From 23:00 hrs to 06:00hrs, trial pit works was conducted under Contractor of HK/2009/02 at Hung Hing Road.Total one crane lorry was in operation.	
					According to the relevant site records under Contract HK/2009/02, from 19:00hrs to 23:00hrs on 14 October 2014, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area. Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02.	
					From 23:00 hrs to 05:00 hrs, dredging works was conducted under Contractor of HK/2009/02 at WCR3 Area.Total one grab dredger was in operation. Mitigation measures including provision of steel sheeting screening to the power generation part of the grab dredger was implemented by the Contractor of HK/2009/02.	
					From 23:00 hrs to 06:00hrs, panel replacement works was conducted under Contractor of HK/2009/02 at the Temporary Covered Walkway. Total one scissor platform and two hand held drills (battery) were in operation.	
					From 23:00 hrs to 06:00hrs, trial pit works was conducted under Contractor of HK/2009/02 at Hung Hing Road. Total one crane lorry was in operation.	
					In view of the above findings, no direct information associated with the noise concern was considered available.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
141110	07/11/2014	EPD Ref.: H05/RS/000278 15-14	Construction site at old Wan Chai Ferry Pier	Malodour of construction plant exhaust from the construction site at old Wan Chai Ferry Pier	A public complaint regarding odour concern referred by EPD was received by ET on 07 November 2014 (EPD Ref.: H05/RS/00027815-14 dated 10 November 2014).	Interim investigation report
		EPD complaint received by ET on 10 November		was scented that affecting the swimmers at Wan Chai Swimming Pool.	The complainant reported that Malodour of construction plant exhaust from the construction site at old Wan Chai Ferry Pier was scented that affecting the swimmers at Wan Chai Swimming Pool.	submitted to EPD on 17 November 2014.
		2014			ET confirmed with the Resident Site Staff that	
					ELS works was conducted on 7 November 2014 during daytime at Portion 2 (Area oppsite to WanChai Swimming Pool).	EPD advised no comment on the interim
					Total 3 nos. of excavators, 2 nos. of crawler cranes, 2 nos. of generator, 1 no. of crane lorry and 2 no. of dump trucks were operated.	report and case closed on 1 Dec 2014.
					Demolition works was conducted on 7 November 2014 during daytime at West of old Wan Chai Ferry Pier.	
					Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. of tug boat were operated.	
					Dredging works was conducted on 7 November 2014 during daytime at WCR3 (East of old Wan Chai Ferry Pier)	
					Total 1 no .of dredger, 1 no. of hopper and 1 no. of tug boat were operated.	
		According to the relevant site records under Contract HK/2009/02, ELS works was conducted on 7 November 2014 during daytime at Portion 2 (Area oppsite to WanChai Swimming Pool). Total 3 nos. of excavators, 2 nos. of crawler cranes, 2 nos. of generator, 1 no. of crane lorry and 2 no. of dump trucks were operated. Demolition works was conducted on 7 November 2014 during daytime at West of old Wan Chai Ferry Pier. Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. of tug boat were operated.				
					Follow-up inspection was conducted during weekly environmental inspection on 13 November 2014, no dark smoke emission was observed from the PMEs operating on- site. The condition of chemical waste storage was considered satisfactory and no malodour was identified. Despite no information related to malodour was identified, the Contractor was reminded to conduct regular checking on the condition of PMEs to ensure only well maintained PMEs are used on site.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Based on the relevant information provided by RSS, despite no information associated with the malodour concern was identified after investigation, the Contractor was reminded to conduct regular checking on the condition of PME used on site to ensure only well maintained PME are used on site The interim report would be submitted to EPD on 17 November 2014.	
141113	12/11/2014	EPD Ref.: H05/RS/000282 53-14 EPD complaint received by ET on 13 November 2014	Construction site at old Wan Chai Ferry Pier	Malodour and dark smoke emission from an excavator located at the construction site at old Wan Chai Ferry Pier was observed that affecting the pedestrians.	A public complaint regarding odour concern referred by EPD was received by ET on 13 November 2014 (EPD Ref.: H05/RS/00028253-14 dated 13 November 2014). The complainant reported thatMalodour and dark smoke emission from an excavator located at the construction site at old Wan Chai Ferry Pier was observed that affecting the pedestrians. (Contract HK/2009/02) ET confirmed with the Resident Site Staff that demolition works was conducted under Contract HK/2009/02 on 12 November 2014 during daytime at old Wan Chai Ferry Pier. Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. tug boat were operated. According to the relevant site records under Contract HK/2009/02, demolition works was conducted on 12 November 2014 during daytime at old Wan Chai Ferry Pier. Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. tug boat were operated. According to the relevant site records under Contract HK/2009/02, demolition works was conducted on 12 November 2014 during daytime at old Wan Chai Ferry Pier. Total 2 nos. of excavators, 1 no. of derrick barge and 1 no. tug boat were operated. In addition, investigation found that due to malfunctioning of one of the excavators deployed at old Wan Chai Ferry Pier, dark smoke was emitted from the defective excavator for a short period of approximately 30 seconds at around 15:00 hrs on 12 November 2014. The operation of excavator was immediately suspended and followed by repair works. The normal operation of the excavator was resumed after repair. Follow-up inspection was conducted during weekly environmental inspection on 13 November 2014, no dark smoke emission was observed from the PMEs operating on- site and the Contractor of HK/2009/02 was reminded to conduct regular checking on the condition of PMEs to ensure only well maintained PMEs are used on site.	Interim investigation report submitted to EPD on 19 November 2014. EPD advised no comment on the interim report and case closed on 8 Dec 2014.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
141121	Not Specified	EPD Ref: H08/RS/28263-14 EPD complaint information and findings was received by ET via email on 21 Nov 2014	Causeway Bay Typhoon Shelter	Resident in Hing Fat Street complaining about loud noise from dredging work in CBTS up to 10pm at night.	 EPD received a construction noise complaint from dredging works at Causeway Bay Typhoon Shelter and a resident in Hing Fat Street complaining about loud noise from dredging work in CBTS up to 10pm at night. EPD investigation found that the operation of a derrick barge is covered by CNP no. GW-RS0701-14. EPD reminded the Contractor of HY/2011/08 to ensure the work strictly follow the permit conditions and endeavor to minimize the noise as so not to disturb the nearby residents. 	Complaint case handled by EPD and relevant investigation findings was sent to ET on 21 November 2014
150127	21 Jan 2015	EPD complaint (EPD Ref.: H05/RS/00001 725-15) received by ET on 27 January 2015 and further information from EPD regarding the updated location under complaint was received by ET on 30 January 2015	A portion of Hung Hing Road immediately to the east of Marsh Road near SPCA	Construction dust and grit was emitted from the construction site to the carriageway causing nuisance to the public.	A public complaint regarding air quality impact referred by EPD was received by ET on 27 January 2015 (EPD Case Ref.: H05/RS/00001725-15 dated 27 January 2015) and further information from EPD regarding the updated location under complaint was received by ET on 30 January 2015. The complainant reported that construction dust and grit was emitted from the construction site to the carriageway causing nuisance to the public. ET confirmed with the Resident Site Staff that the major construction activities around the concerned location conducted on 21 January 2015 include breaking of seawall blocks and D-wall at TPCWAW; concreting, grouting and drilling works at TPCWAW;reclamation/ backfilling works at TPCWAW Mitigation measures implemented by the Contractor for the above construction works include spraying haul road with water; covering bagged cement with tarpaulin; providing three sided and top covering for grouting stations; providing water spraying to dusty activities such as breaking works According to the relevant site records, breaking of seawall blocks and D-wall, concreting, grouting and drilling works and reclamation/ backfilling works were	Interim report submitted to EPD on 9 February 2015



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					conducted at TPCWAW. Dust mitigation measures including spraying haul road with water, covering bagged cement with tarpaulin, providing three sided and top covering for grouting stations and water spraying to dusty activities such as breaking works were implemented by the Contractor of HY/2009/15 near the concerned location on 21 January 2015.	
					Follow-up investigation was conducted on 27 January 2015 during weekly environmental inspection, dust mitigation measures including water spraying for dusty haul road and major dust generation works; and provision of three sides and top covering for grouting station were confirmed in place.	
					In addition, based on the review of the monitoring data of the monitoring station located at the concerned location raised by the complainant, namely monitoring station CMA3a, no action or limit level exceedance was recorded during air quality monitoring conducted on 20 and 21 January 2015. Nevertheless, the Air Quality Health Index (AQHI) recorded by EPD across Western District and Eastern District on the complaint date was ranged from 4 to 10+ indicating a severely high concentration of ambient air pollutants.	
					As such, the site condition under Contract HY/2009/15 at the concerned location was considered to be generally satisfactory and no non-conformity related to cumulative air quality impact was observed. Nevertheless, in view of the public concern, the contractor was reminded to enhance the dust mitigation measures implemented to minimize potential nuisance to nearby public.	
150622	18 June 2015	EPD Ref.:H05/RS/ 00015054-15 dated 8 June	A mooring location near shore and at location outside Wan Chai Sports	Dark smoke and malodour emission was observed from a hopper barge moored near shore and	A public complaint regarding dark smoke and malodour concern referred by EPD was received by ET on 22 June 2015 (EPD Ref.: H05/RS/00015054-15 dated 22 June 2015). The complainant reported that dark smoke and malodour emission was observed from a hopper barge	Interim report submitted to EPD on 29 June 2015



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		2015	Ground	other construction plants under operation from the reclamation construction site	moored near shore and other construction plants under operation from the reclamation construction site with Contract no. HK/2009/02 at location outside Wan Chai Sports Ground caused air pollution. The complainant alleged that the said situation had been observed for a prolonged period.	
					ET confirmed with the Resident Site Staff that reinforced bar fixing and concreting work (on 17 June 2015 only) were conducted at Portion 2 from 15 June 2015 to 19 June 2015. Total 3 nos. of mobile crane were in operation. On 17 June 2015, one no. of concrete pump truck and two nos. of concrete mixer were in operation.Excavation and Lateral Support was conducted at Portions 3 & 4 from 15 June 2015 to 19 June 2015. Total 4 nos. of excavator, 2 nos. of truck and 2 nos. of crawler crane were in operation. In addition, on 15 June 2015, 17 June 2015 and 19 June 2015, 1 no. of derrick barge was moored near Portions 3 & 4 for transportation of the excavated material away from site. According to the relevant site records under Contract HK/2009/02, from 15 June 2015 to 19 June 2015, reinforced bar fixing and concreting work (on 17 June 2015 only) were conducted at Portion 2 and total 3 nos. of mobile crane, one no. of concrete pump truck (on 17 June 2015 only) and two nos. of concrete mixer (on 17 June 2015 only) were in operation; excavation and lateral support was conducted at Portions 3 & 4 and total 4 nos. of excavator, 2 nos. of truck and 2 nos. of crawler crane were in operation. Based on relevant site record, no hopper barge was moored under Contract HK/2009/02 around the concerned location while 1 no. of derrick barge was moored under Contract HK/2009/02 near Portions 3 & 4 for transportation of the excavated material from Portions 3 & 4 away from site on 15 June 2015, 17 June 2015 and 19 June 2015 respectively.	
					Follow-up inspection was conducted during weekly	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					environmental inspection on 25 June 2015, no dark smoke and malodour emission was observed from the PMEs operating on-site. A derrick barge was observed moored near Portions 3 & 4 and excavated material was transferred to the derrick barge by the excavators on land without barge operation and no particular dark smoke and malodour emission was observed. Nevertheless, the Contractor was reminded to conduct regular checking on the condition of the derrick barge and other PMEs deployed on site to ensure only well maintained PMEs are used to avoid potential dark smoke and maldour emission affecting nearby public.	
150723	20 July 2015	EPD Ref.:H05/RS/ 00018040-15 dated 23 July 2015	Ex-Wanchai Ferry Pier near 720 & & 722 Bus stop	Malodour from marine sediment	A public complaint regarding malodour referred by EPD was received by ET on 23 July 2015 (EPD Ref.: H05/RS/00018040-15 dated 23 July 2015). The complainant reported that malodour from marine sediment was scented at ex-Wanchai ferry pier near route 720 & 722 bus stop. (Contract HK/2009/02). ET confirmed with the Resident Site Staff that Rockfill placing works was conducted by one derrick barge at the concerned location (WCR3) under Contract HK/2009/02 on 20 July 2015. No marine sediment was stored or placed on site at the concerned location under Contract HK/2009/02 on 20 July 2015. According to the relevant site records under Contract HK/2009/02, rockfill placing works was conducted by one derrick barge at WCR3 area on 20 July 2015 and no marine sediment was stored or placed on site at the concerned location on the concerned date. Follow-up inspection was conducted during weekly environmental inspection on 29 July 2015. No marine sediment was observed stored or placed at the concerned location while it was noted that a culvert outfall with potential odour concern is located adjacent to the concerned location.	Interim report submitted to EPD on 30 July 2015.

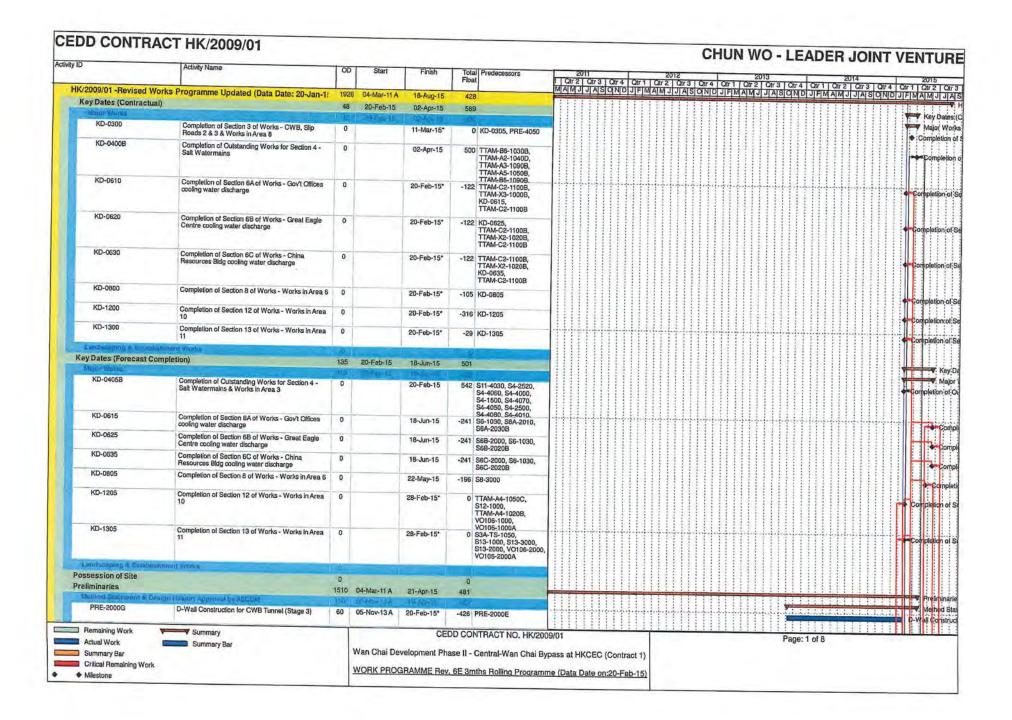


Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					Nevertheless, the Contractor was reminded to review the handling procedures in case of any future marine sediment handling at the concerned location and to consider the implementation of mitigation measures as appropriate to minimize potential malodour impact to nearby public.	



Appendix 7.1

Construction Programme of Individual Contracts



D		Activity Name	OD	Start	Finish	Float	Predecessors	MAM	2011 2 QI	r3 Q	tr 4		Qtr 2	Otr 3	OINIC	Gtr 1		2 0	AS	OIN D	JF	1 QI	MJ.	Dir 3	QIF 4	DJF	IMA	MI.	J
-	PRE-2030B	ELS for CWB Stage 2	30	20-Mar-14 A	20-Mar-15	513	PRE-2030A, PRE-3050B								11		1					-	7.1	11	111		-		-
	PRE-2030C	ELS for CWB Stage 3	30	19-Apr-14 A	19-Apr-15	483	PRE-3050C, PRE-2030B													11		-	11	TE				•a.	
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	PRE-3050B	ELS for CWB Tunneling Works Stage 2 (GEO)	28	21-Feb-15*	20-Mar-15	-601	PRE-3050D,			111	11	111	111	111	11		11	11		11	11		11	11			F	6.61	1
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	PRE-3050C	ELS for CWB Tunneling Works Stage 3 (GEO)	28	23-Mar-15	19-Apr-15	400	PRE-3050B			111		111	111		11		11	11		11									
	PRE-3050D	ELS for CWB Tunneling Works Stage 1B (GEO) for Bottom Up	28	20-Apr-11 A	20-Feb-15	-601	PRE-3050A		111	111	11	111	111	111	11	111	11	11		11	11		11	11	110			Sor	
-	PRE-3310	Stage 2 Tunnel Structure Design	60	20-Feb-15	20-Apr-15	482	S3B-TS-1000		111	111	11	111	111	411		111	11	11	11	11	11		11	11	1 10			I Sta	
-	PRE-3320	Stage 3 Tunnel Structure Design	60	20-Feb-15	20-Apr-15		S3C-TS-1100		111	111	11	111	111	111	11	111	11	11			11		11	11			P	I Sta	ą
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Preliminates 0 0 CHA & CHIS 001 To 1160 (Man Chai Side) 0 0 CHA & CHIS 001 To 1160 (FIST Bide) 0 0 Imprissed Current Cathodic Protection (ICCP) System 0 0 Testing & Convolutional To the Cathodic Protection (ICCP) System 0 0 Wein Oring Section (CHC & CHO) 0 0 0 Wein Oring Section (CHC & CHO) 0 0 0 Testing & Convolutional Thereth Excavation) 0 0 0 Testing & Convolutional Thereth Excavation) 0 0 0 Testing & Convolutional Chief (CHC & CHO) 0 0 0 Testing & Convolutional Chief (CHC & CHO) 0 0 0 Testing & Convolutional Chief (CHC & CHO) 0 0 0 Testing & Convolutional Chief (CHO) 0 0 0 0 Testing & Convolutional Chief (CHO) 0 0 0 0 0 Testing & Convolutional Chief (CHO) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Section 1 of the Works - (Cross Harbour Watermains, Works in Area 1 & 2	0			Ó		111	÷+-		++		+++					4-4-4				1.1.1		1. j.
CHA & SHB -0.1 to SOI (TST Bide) 0 5 Improceeded Gurrant Collender Proceeding (ICCOP) System 0 0 Testing & Commissioning 0 0 With Otel S - this (ICCOP) System 0 0 Maintrying at Zone Bt-1 (Converting AT Teench Excavation) 0 0 Testing & Commissioning 0	Emiliminante Section (CH)	(CCHB)	1.0		Constant of the local division of the local	0			11				111			111	111	111	111	111				
CHA & SHB -0.1 to SOI (TST Bide) 0 5 Improceeded Gurrant Collender Proceeding (ICCOP) System 0 0 Testing & Commissioning 0 0 With Otel S - this (ICCOP) System 0 0 Maintrying at Zone Bt-1 (Converting AT Teench Excavation) 0 0 Testing & Commissioning 0	THAS CHE SOUTH 11	O I Web Charl States							11								111	111	111	111	111			
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Maintaging at Zone BX-1/ (Concettional Trench Exception) 0 Testing & Controllisking 0						-			11			111				111	111	III	111	TTT	111			
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Opproving Discourse Introductioning m EAM Works 0 Introduction of Indef Servery 0 Section 2B of the Works - Cooling Water Intake & Discharge System (HK/ 0	Section 2A of the Works -	Cooling Water Inteks & Discharge Sustern (De							11			111				111	111		111	111	111			
Section 2B of the Works - Cooling Water Intake & Discharge System (HK/ 0 0	Pipeworks	obering water make a Discharge System (Con	U			0			11	111		111	1111	111	111	111	111	111	111	111	110			
Section 2B of the Works - Cooling Water Intake & Discharge System (HK/ 0 0	Testing & Commission	ling	1						111	111		111				111	111		111		111			
Section 2B of the Works - Cooling Water Intake & Discharge System (HK/ 0 0			1 - 1		1	10			·			+++-		-4.4-4		444	4.4.4.	1.1.1	111	14.	1.1.11			
Section 28 of the Works - Cooling Water Intake & Discharge System (HK) 0 0	Invalidation of indust lice on	n						111	111	111		111		111	111	111	111	111	111	111	111			
	Section 2B of the Works -	Cooling Water Intake & Discharge System (HK)	0		-	0		111		111		111		111		111	111	111	111	111	111			
Testing & Commercianing	and the second se	Lora Contra C	1			1		111	11	111				111	111	111	111	111	111					
	maning & commission	11114				0		111		111		111		111	111	111	111		111	111				
Remaining Work V Summary CEDD CONTRACT NO. HK/2009/01 Page: 3 of 8	Remaining Work	Summary	T		CE	DD CON	TRACT NO HK/200	0/01	_	_		1		2.1.4	1.1.6					er i	111	· H	EII:	FI
Actual Work Summary Bar Summary Bar Wan Chai Development Phase II - Central-Wan Chai Bypass at HKCEC (Contract 1)	Actual Work			and the													Pa	ige: 3	8 10					

		Activity Name	OD	Start	Finish	Total Float	Predecessors	MAIN	MJ.	AT3 C	Atr 4	Otr 1	AM.	Qtr 3	3 Qtr SON	4 Qtr	MAN	2 C	AS	OND	JF	MAIN	111	ASO	ND J	Ar 1	AIM	15
	Works		ΰ.			0						11			11	111				11								
	diation of Injer Screan		1	1.00				11	11			313	111	111	11			111		11		11		11				
		Cooling Water Intake & Discharge System (Shu	0			0		11	11	111		11	111	111	11		111	111		11	111			11				
	works								11			11		111	11			111	11	11	111		111	11				
	Sing & Commission Worker		81			0		11	17		$\uparrow\uparrow\uparrow$	11	ttt	111	11	i i t	$f^{\dagger}f$	$^{++1}$		1	111	TT	111	11	TT T			H
	itation of intel Second		a			1			11		111	11	111	111	11			111		11			111	11				
		Cooling Water Intake System (3 nos. Govt Towe	0			0	-		11			11			11		111	11			111		111	11				
	works		0			0			11		111	11	111	111		111	111	11		11	111		111	11				
Te	sting & Commissioni	118						11	11				111			111	1.1.1	11.		11.	1.1.1		11.		11.1.			
ELM	Works		9.	60 S.S.M		17			11			11	111	111		111	111	11		11	111		111	11				
Insta	Inition of Inlet Screen	and the second	Q.		-		1	11	11			11	111	111				11		11	111		111	11				
Comm	on E&M Works for S	ections 2A, 2B, 2C & 2D (LV Switch Board at H	0			0		111	11	111	111		111	111		111	111	11		11	111		-	11	111			
		VB Tunnel, Slip Roads 2 & 3, Works in Area 8		27-Jun-14 A	25-Jul-15	458			11	111	111	11	111	111		111	111	11		11	11		-	11	111	Ш	W B	П
		lago 1 : CH2947 - CH3045)	32	19-100-12-A	10+R/ap-15	233		1.1.1		1.4.1.	4.4.4	· · · ·	· · · · · ·					÷		4.1-	+		1.4.4		He-I-	FIF		1
	po Prie Wall P1						-		11	111	111	11	111	11			111	11	111	11	11	111	111	11				
		Vorks (Matine Chillinge - CH0 - CH120)						11	11	111		11		11			111	11		11	11		111	11				
		arks (CH29)7 - CH3065 / CH0 - CH120)	0	-	-	0		- 13	11	111	111	11	111	11			111	11					11	11				
		t Stage 1A (Top Down Method : CH2947 - CH2988) (Stage 1B (Bottom Up Method : CH2988 - CH3045)	0			0			11	111	111	11	111	11		111	111	11		11	11		111					
		nks (Ch/947 - Ch/9045)	0			0					111	· tri	+++		· · · ·	† ††	111	TT	111	1	TT	ttt	111		int		19	11
		Stage 1A (For Top Slab Construction - CH2947 - C	0	-	Contraction in the	1 0			11	111	111	11	111	11		111	111	11			11	111	111					
115		Stage 1A & 1B (For Bottom Siab Construction - C)	0			0	1		11	111	111		111			111		11	111		11	111	11					
		ure Works (Bay 1 to Bay 7 Ch2847 - Ch 3045)		16-June 15 A	10-0-0-06	216			11	111	111	11	111	11		111	111	11	111		11	111	11		1	1	tage	e 1 -
-		Rege 1A (Top Slab Construction : CH2947 - CH2968)	0	Contract of the local division of the local		0			11	111	111		111	11		111	111	11	111		11	111	11					
		Bloge 1A & 1B (CH2947 - CH3045)	30	19-Jan-15 A	10 Mar-15	183		-	11	111	111		111	11	111	111	TTT	11	111	T	TT	TTT	TT		1	HH	ul n ar ki	e S
	S3A-TS-2080	Backfilling to formation level for Stage 1B (CH 80 to CH 120)	30	19-Jan-15 A	10-Mar-15	183	S3A-TS-1060, S3A-TS-2000			111				11							11		11			P	3acki	illin
CWS	a Tunnelling Works (Si	lage 2 - Ch3045 - Ch3126)	452	A+Druc 75		-4.95				111	111		111				111				11	111	-	111	+++++	th		T
		Volke (Marine Chalouge : CH120 - CH225)	11	Contraction of the						111	111		111	11	111	111	111	11	11		11		11		111.1			
	Ingo 2 - Foundation W	lotks (Ballom Up Mithial - CH2045 - CH3129 CH1	1470	221010104	Ubahor 15	466	and the second second	.1.1		1.1.1	11.		1.1.1		1.1.1.	1.1.1	14.	4.4.	1.1.			į.j.į			Alleri.	ПП		₩ 3]- #
	S3B-FW-1040C	ELS for Exhaust Duct CH2988 to CH3045 (~5.0mPD)	170	A Dear Sec. 2	10-Jun-15	386	S3B-FW-1040B, S3B-TS-2000A																				II,	2
BI	the second se	onis (For Bottom Sibb Construction / CH3045 - CH	18	26-No=14-8	STIMINY IE		Loop FILL LOLOF			111	111		111	11	111	111	111	11	11		11	111	11					-
	S3B-EW-1000E	Stage 2 ELS - excavate to approx, -10.0mPD at Bay 10		19-Dec-14 A	27-May-15	1-1-	S3C-EW-1010E									111	11	11									Щ	-
	S3B-EW-1030	Stage 2 - Breaking of Bulk Head Wall at Bay 10 Ch3129	35	06-Nov-14A	27-May-15	339	538-EW-1000E			111											11	111	11				Щ	-
5		une Works (Bey 716 Bey 10 - 046645 - 043128)	-	A discussion of the	2540410	201	000 70 4000			++++	++			++-	++	+++				+++	+++			111	the			918
	S3B-TS-1030	Bay 9 Base Slab	14	27-Jan-15 A	05-Mar-15	-14	S3B-TS-1020	11		111	11		11	11	111	111	11		11	111	11	111	11					
	S3B-TS-1040	Bay 10 Base Slab	14	03-Jun-15	16-Jun-15	38	S3B-EW-1000E	-		111	11	111	11		111	11	11	11	11	111	11	111	11	111	111			
-	S3B-TS-1040 S3B-TS-1050	Removal of 2nd and 3rd layer of Strut/Waling at Bay		09-Feb-15A	15-Mar-15		S3B-TS-1010,			111	11		11		111	111	11		11	111	11	111	11	111	111		Ter	no a
		7,8&9	1.3	and second		1	S3B-TS-1020, S3B-TS-1030			111	11	111	11				11		11	111	11	111	11	111	111			
			-	1010-107	00 11-1 12			- 1		111	11	111	11	111	111	111			11	111	11	111	11	111		14	i B	8
-	S3B-TS-1060	Bay 7 & 8 Wall	14	16-Mar-15 21-Mar-15	29-Mar-15 03-Apr-15		1 S3B-TS-1050 1 S3B-TS-1050,	-		111	11	111	11		111	111	11		11	111	111			111		18		iy I
	S3B-TS-1070	Bay 9 Wall					S3B-TS-1060				11.	11.			11		1.1.		4.4.	14							1111	
	S3B-TS-1080	Construction of Exhaust Duct (CH2988 - CH3045)	45	11-Jun-15	25-Jul-15	38	6 S3B-FW-1040C				11				111	11			11									1
													-							_			1					_
Re	amaining Work	Summary	-		C	EDD C	ONTRACT NO. HK	2009/0	1											Pa	ige: 4	8 10						
	tual Work	Summary Bar		Wan Chain	evelopment I	Phace I	- Central-Wan Cha	Bypas	is at	HKCE	C(Cor	ntract	1)															
	ummary Bar	and the second																										
	ritical Remaining Work			WORK PRO	GRAMME R	lev 6F	3mths Rolling Prog	mme (Data	Date	on:20-	-Feb-	15)															

	Activity Name	OD	Start	Finish	Floa	Il Predecessors	Tan	2011 2 Qtr 3	Qtr 4	Qtr 1 T C	2012 2tr 2 0	tr 3 Or	4 0	1 1 201	2013	310			201			_	
S3B-TS-1090	Backfilling at Northern Side from -10mPD to -2mPD (Slip Road 2 - 4700cu.m)	70	04-Apr-15	12-Jun-15	-14	1 S3B-TS-1060, S3B-TS-1070	MAN	JJAS	OND.	JIFIMA	MJJ	ASON	DJF	MAM	JJA	ISON	10 J	FMA	MJ	JASC	ND J	FIM	
S3B-TS-1100	Backfilling at Southern Side from -10mPD to -2mPD (Slip Road 3 - 4000cu.m)	21	22-May-15	11-Jun-15	-140	S3B-TS-1060, S3B-TS-1070.																	
000 TO 1110			in the second			S3B-TS-2000A				111		111				111	111	111		111			l
S3B-TS-1110 S3B-TS-1120	Bay 7 & 8 Wall and OHVD Base Slab	10		08-Apr-15	459	S3B-TS-1060				III.		111				111	111	111	111	111			ļ
	Bay 9 Wall and OHVD Base Slab	10	04-Apr-15	13-Apr-15		S3B-TS-1070, S3B-TS-1110									11								
S3B-TS-1130	Bay 7 & 8 OHVD Wall Stem and Bay 7 & 8 Top Slab	10	09-Apr-15	18-Apr-15	484	S3B-TS-1110	11		1111	\dagger					÷	ŀ				+++		N	
S3B-TS-1140	Bay 9 OHVD Wall Stem and Bay 9 Top Slab	10	14-Apr-15	23-Apr-15	459	S3B-TS-1110, S3B-TS-1120									11								
S3B-TS-1160	Construction of Slip Road 2 & 3 Base Slab	14	13-Jun-15	26-Jun-15	-141	S3B-TS-1090, S3B-TS-1100												111					
S3B-TS-2000A	Construction of Exhaust Duct (CH3045 - CH3129) Including waterproofing works	48	04-Apr-15	21-May-15	-140	S38-TS-1070																μ	
6 Turnidling Clarks (6 Single 9 - Problemation 3	knon 3 Christeine (Liniselle) Mores	- 64	12-04-04-A	(County)	-									111	11						-	Ц	
S3C-MW-1400	Removal of Remaining Type II & I Material during Stage 3 Excavation	45	12-May-15	25-Jun-15	-242	\$3C-EW-1010E									T				T				
	Outtail and Seawnill Construction	0	1		0	-			111		111	1111		111				111	11				
Demolilion Works		.0.		1				1111	111		111	1111	111	111	111	11		111	11				
Demolition Works		Ø			0	1		1111	111	1111	111	1111		111	113			111	11	111			
Demolition Works		0			0			+			1.1.1	1.1.1.4	.1.1.1	111	4.1.1			111	11	111			
	ersion and Reprovision)	0			0			1111	111	111	111	1111	111	111	111	111	11	111	11	111		11	
inge 3 - Foundation W	lonis							1111	1111	1111	111	1111	111	111	111			111	11	1111			
lige d. Excavation We		100						111			111	1111	111	111	111	111		111	11				
Excavation Works at		Site .	12-Dec-14 A	25.40.15		-		1111	1111	1111	111	1111	111	111	111	111		111	11		Witter	H	ľ
S3C-EW-1010	Excavation to -4.0 mPD (approx 26,600m3)	96	and the second se	And in case of the local division of the loc	-242			111	1111	1111	111	1111	3.11	111	111	111		111	11	ЫH	Contraction of the		ł
	including strut/waling installation	90	18-Dec-14 A	31-Mar-15	-236	S3C-FW-1040B, PRE-2030C, S3C-EW-1000													T			H	
S3C-EW-1010B	Installation of Dewatering Well (45nos.) and Pumping Test	45	12-Dec-14A	06-Apr-15	-242	PRE-2000H, S3C-FW-1050C, S3C-FW-1040B, S3C-EW-1010															-	and there	
S3C-EW-1010E	Excavation to -16mPD (approx 55,000m3)	80	07-Apr-15	25-Jun-15	-242	S3C-EW-1010, S3C-EW-1010B					Ш		111				11		11			L	
Excavation Works at	Stage 3A & 3B (For Bottom Slab Construction : Cl	-0			-	COC-EW-TOTOB		1111	1111		111	1111	111	111	111	111			111				ł
	in Works (Bay 11 to Bay 28 Ch0129 - CH0245)		All and a state of the	-		COLUMN TWO IS NOT	- 111	1111	1111	111	111	1111	111	111	111	111		111	111	1114	111		
	tage 3A (Top Slab Construction - CH3185 - CH3246)	0.1		and the second second				1.1.1.1	444		1.1.1.	1111	1.11	111	111	111	11		111		110		
Tunnel Structure at S	(age 3A & 3B (CH3129 - CH3245)	56	08-M/w-15	02-34115	0		- 113	1111	1111		111	1111	111	TH	TIT	111	TT		TIT		111	1	
S3C-TS-2000	Bay 11 Sip Road 3 Sump Pit Base Slab	14	A Description of the local division of the	State of the local division of the local div	355	000 100		1111	1111		111	1111	111	111	111	111	11	111	111				
	A COLORE S SAUGHT IN DESC ORD	14	06-Jun-15	19-Jun-15	329	S3C-MW-1400, S3C-EW-1010E, S3B-EW-1030																	
S3C-TS-2000F	Bay 11 CWB Base Slab	14	27-May-15	09-Jun-15	330	S3C-EW-1010E	-111	1111	1111		111	1111	111	111	111	111	11		111				
S3C-TS-2090A	Bay 20 CWB & Slip Road 2 Base Slab and Slip Road 3 Wall	14	19-Jun-15	02-Jul-15		S3C-EW-1010E							111			111							
S3C-TS-2160	Backfilling up to Formation Level of Cooling Mains & Construction of Surface Drainage incl. strut/waling removal	15	06-May-15	20-May-15	-241	S9-1050, S9-1040 S9-1040A																and a second sec	
n 4 of the Works - Sal	It Water Mains, Works in Area 3	8	20-Mar-15	26-Mar-15	598																		
naining Work		- U	to an its	200					1111	111			111			111	11						
	Summary			CE	DD CO	NTRACT NO. H	(/2009/01			T	-					Pac	e: 5 c	of 8				-	
ual Work 🔹 🔳	Summary Bar		Wan Chai De	velopment Ph	ase II -	Central-Wan Cl	ai Bypass at	HKCEC	(Contra	ict 1)													
ical Remaining Work		- 1				ths Rolling Prod																	
stone					UII	The Froming From	annine [Ddl	a Dale 0	11.20-1.61	0-10)													

	Activity Name	OD	Start	Finish	Total	Predecessors	2011 2012 2013 2014 2015
					Float		OLT2 CAT3 CAT4 CAT1 CAT2 CAT3 CAT4 CAT1 CAT2 CAT3 CAT4 CAT1 CAT2 CAT3 CAT4 CAT1 CAT2 CAT3 CAT4 CAT1 CAT2 MAIMJJJAISICINID JIFIMAMJJJAISICINID JIFIMAMJJAISICINID JIFIMAMJJAISICINID JIFIMAMJJAISICINID JIFIMAMJJAISICINID
Testing and En	amalienariona	1	Stalidari 18	C-Mar 1.	10		
S4-1520	Connection to Existing Mains (S8B)	7	20-Mar-15	26-Mar-15	-207	S4-1510, TP-1210, TP-1200, PRE-3200D	Tradina
ED (AMAEN) ESH U	Auntmains & Bower	-	Witness 75	- Anno A	-3/19	TF-1200, FRE-32000	
Testing and Co	ammusianing	-	20-14-015	20 Mai 10	-01		
\$4-2520	Connection to Existing Mains (S9)	7	20-Mar-15	26-Mar-15	507	S4-2510, PRE-3200E, TP-1110	T Cone
Stornwalar Drain	000					Tranto	
	or Re-Provisioned Costing Water Pumping Stations	D.				8	
ection 5 of the Wa	orks - Works in Area 7 & Pipe Pile Wall P2	0			C):	
	Vorks - Cooling Water Discharge System (3 nos. Govt T	455	20-Jan-14 A	17-Jun-15	-241		
S6A-1100	Over CWB - CHBF (92m)	7	21-May-15	27-May-15		S3C-TS-2160, S9-1050	
S6A-1200	Zone X1-1 - CHBF (11m)	21	19-Apr-15	09-May-15*	-223	3 TTAM-X3-1030A. TTAM-X3-1000A, S4-1000	
S6A-1210	Zone X1-2 - CHBF (5m)	21	19-Apr-15	09-May-15*	-	3 TTAM-A4-1120B	
S6A-1220	Zone X1-3 - CHBF (7m)	21	02-May-15	22-May-15*		5 S6A-1230	
S6A-1230	Zone X1-4A - CHBF (21m) & S3 (21m) Connection Point	24	20-Jan-14 A	01-May-15	-236	5 TTAM-X3-1030A	
S6A-1240	Zone C3-1 - CHBF (16m) Test and Connection Point	60	22-Jun-14 A	22-May-15	-236	5 TTAM-C3-1000A	
Testing = Comm		21	2+by-15	15-agreete	1 244		
S6A-2010	CCTV & Pressure Test of CHBF	7	28-May-15	03-Jun-15	-241	1 S6A-1100, S6A-1050, S6A-1040, S6A-1200,	
					-	S6A-1020, S6A-1030, S6A-1240, S6A-1210,	
S6A-2020	Cleaning & Sterilization of CHBF	7	04-Jun-15	10-Jun-15	-241	S6A-1010, S6A-1230. 1 S6A-2010	
S6A-2030A	Future Connection to Existing Mains (CHBF) at temporary water channel	7	11-Jun-15	17-Jun-15	-241	1 S6A-2020	
S6A-2030B	Permanent Diversion of Discharge Water to Proposed Discharge Main	0		17-Jun-15	-241	1 S6A-2020, S6A-2010, TP-1310, TP-1350, S6A-2030A, PRE-32000	
					-		
Section 6B of the V S6B-1100	Works - Cooling Water Intake & Discharge System (Gre	344	22-Jun-14 A	17-Jun-15 27-May-15	-24	1 S3C-TS-2160, S9-1050	
S6B-1220	Over CWB - CHBG (92m) Zone C3-1 - CHBG (16m) Test and Connection Point	60	21-May-15 22-Jun-14 A	22-May-15		6 TTAM-C3-1000A	
Testing & Count		21	20-001-10	- Down-Am	1.00		
S6B-2000	CCTV & Pressure Test of CHBG	7	28-May-15	03-Jun-15	-24	1 S6B-1020, S6B-1220, S6B-1200A, S6B-1210,	
		1				S6B-1200, S6B-1020A, S6B-1000, S6B-1000, S6B-1010,	
					-	S6B-1030, S6B-1050.	
S6B-2010	Cleaning & Sterilization of CHBG	7	04-Jun-15	10-Jun-15		1 S6B-2000	
S6B-2020A	Future Connection to Existing Mains (CHBG) at temporary water channel	7	11-Jun-15	17-Jun-15	-24	1 S6B-2010	
S6B-2020B	Permanent Diversion of Discharge Water to Proposed Discharge Main	0		17-Jun-15	-24	1 S6B-2020A, PRE-3200	₽P
Section 6C of the	Works - Cooling Water Discharge System (China Resou	344	22-Jun-14 A	17-Jun-15	-24	and the second sec	
S6C-1100	Over CWB - CHBI (100m)	7	21-May-15	27-May-15	and designed to the lot of the lo	1 S3C-TS-2160, S9-1050	50
S6C-1600	Zone C3-1 - CHBI (16m) Test and Connection Point	60	22-Jun-14 A	22-May-15	-23	6 TTAM-C3-1000A	
Testing & Comm	itestopling	1.2	Shekar15	(industry)		1	
27 Post / 10 10 10 10					EDD	ONTRACT NO. HK/2	2009/01 Page: 6 of 8
Remaining Work							
Actual Work	Summary Bar		Wan Chai D	Development F	Phase I	I - Central-Wan Chai I	Bypass at HKCEC (Contract 1)
Summary Bar			WORK PRO				

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U	Activity Name	OD	Start	Finish	Tota	Predecessors	2011 2012 2013 / 2014
000 0000					Floa	d	012 013 014 011 012 012 012 013 2013 2014
S6C-2000	Pressure Test of CHBI	7	28-May-15	03-Jun-15	-24	1 S6C-1030, S6C-1600, S6C-1040, S6C-1100, S6C-1020A,	MAMUJAISONO JEMAMJJASOND JEMAMJJASOND JEMAMJJASONO JEMAMJJASOND JEMAMJYAKA KA
S6C-2010	Observe a province of the second	_		L		S6C-1020A, S6C-1020, S6C-1050, S6C-1300,	
S6C-2020A	Cleaning & Sterilization of CHBI	7	04-Jun-15	10-Jun-15	-241	S6C-2000	
0.000	Future Connection to Existing Mains (CHBI) at temporary water channel	7	11-Jun-15	17-Jun-15	-241	S6C-2010	
S6C-2020B	Permanent Diversion of Discharge Water to Proposed Discharge Main	0		17-Jun-15	-241	PRE-32000, S6C-2010, S6C-2020A, S6C-2020A, S6C-2020A, S6C-2020A, S6C-2020A, S6C-2000,	
Common Works for Section	DOD 54 59 8 50		and some for		-	TP-1330	
Districtions On fall Common	unio ca, ob a oc	30	22-May-15	21-Jun-15	420		
S6-1030	Connection of the Completed Cooling Mains to	0	and the second s	an aller and	141		
	Precast Outfall Unit	v		22-May-15	-250	S6C-1600, S6A-1240, S6B-1220, S6-1010	
S6-1040	Reinstatement of Existing Seawall after Connection	30	23-May-15	21-Jun-15	420	S6-1030	
Section 7 of the Works	In David Director and	1			1.005		
Section 7 of the Works - Tr ADMS Installation	Tai Dured Piles in Area 5	0			D		
That Bored Minh		0					
Tenting & Commissioning	District of the second second						
Section 8 of the Works - W	orks in Area 6 (Utilities other than Watermains	500	10 10 10 10		0		
Slovtrage Works	to the man watermains	583	10-Jan-14 A	22-May-15	-228		· · · · · · · · · · · · · · · · · · ·
S8-1030	Zone A3-5D & A3-4D	23	10-Jan-14 A	10 May 45			
		40	10-Jan-14 A	19-Mar-15	-228	TTAM-A3-1020	
S8-1040	Zone A3-2C	23	19-Mar-15	26-Apr-15	-228	TTAM-A3-1040	
S8-1050	Zone A3-2D	23	26-Apr-15	15-May-15		TTAM-A3-1060	
S8-2500	CCTV Survey	1	15-May-15	16-May-15		S8-1000, S8-1050	
S8-3000	Connection with Upstream Existing Manhole & Abandon Used Pipe	7	16-May-15	22-May-15		S8-2500	
Section 9 of the Works - Re		1					
Box Dubert Construction	emandar of the works	214	07-Sep-14A	21-Jul-15	390		
S9-1030	Construction of Precast Bay 1	76	OF Ore dia	EV-May-US	-008		
		10	25-Sep-14 A	03-Mar-15	-208	DW3-1020AA, EDE-1010A	
S9-1040A	Installation of Sheet Pile / ELS and Construction for Bay 7	180	07-Sep-14 A	20-Apr-15	-226	S3C-FW-1040B	
S9-1040B	Installation of Sheet Pile / ELS and Construction for Bay 2	180	11-Oct-14A	20-Apr-15	-226	S9-1040A, S3C-FW-1050E, S9-1030	
S9-1050	Construction of Bay 3 to Bay 6 incl. top slab	75	20-Jan-15 A	05-May-15	-241	\$9-1020, \$3C-TS-1100.	
50 1020	waterprooling works	1.00				S9-1010	
S9-1060	Permanent Diversion of Storm Water to New Provided Box Culvert	5	06-May-15	10-May-15	107	S9-1050	
S9-1070	Backfill the Temporary Water Channel from East to West (BG/BI Connection Point at Water Channel)	15	13-May-15	27-May-15		S9-1050, S6C-1100, S6B-1100, S6A-1100, S9-1060	
S9-2000		0.2	1000r-16	Double.	20		
	Backfill up to Formation Level for Reprovision of Expo Drive East	10	28-May-15	06-Jun-15	-35	S6C-1100, S6B-1100, S6A-1100	
S9-2000A	Permanent UU Connection/Change Over	60	21-May-15	20-Jul-15		S3C-TS-2160	
S9-2010	Construction of New Road and Surface Drainage	45	07-Jun-15	21-Jul-15		S9-2000	
Waterworks in Arte F Sett Water Mains (11 55	44 368	41-11	25-44	The second second	-162		
S9-5500A	Zone X1-1 - S3 (5m)	0	and the second s	09-May-15	-201	S6A-1200	
Remaining Work	Summaria	T			10.0		······································
Actual Work	Summary			CE	UD CO	NTRACT NO. HK/2009	9/01 Page: 7 of 8
and the strength of the streng	Summary Bar		Wan Chai De	velooment Ph	II ose	Control-Man Ohai D	
Summary Bar			onal De	elopment Ph	ase 11 -	Central-Wan Chai Byp	bass at HKCEC (Contract 1)
Critical Remaining Work			WORK PROC	BAMME Paul	6E 2-	the Polling Program	e (Data Date on:20-Feb-15)
Milestone		1		A PRIMITE DEV	. UE 31	mis nothing Programm	e (Data Date on:20-F6D-15)

S9-5500B S9-5500C	Activity Name	OD	Start	Finish	Float	Predecessors	MAM	O11	Qtr 4	Qu	1 Qtr	2012 2 QI	D E1		JUL 1		I II A	ISIA	NID	JIER	MAL	ALL I	TIATE	CINIC	Otr 1	Cir 2
	Zone X1-2 - S3 (5m)	0		09-May-15	442	S6A-1210	MIN A	AU	SIGNIL	1914	MAN	50	100	1013	1 1 1	~114	1 1	1919	1	11	11	1010	110	-	1	1.4.4
	Zone X1-3 - S3 (5m)	D		22-May-15		S6A-1220	111	111	111	11			111	11	111	111	11	111		11	11	11	111			
S9-5510	Over CWB - S3 (92m)	0		27-May-15	79	S6A-1100	1111	111	111	11	11		111	11	111		11				11	11	111			
S9-5530	Pressure Test of S3	7	28-May-15	03-Jun-15		S9-5500A, S9-5500D, S9-5500C, S9-5500B, S9-5510, S9-5520																				T
S9-5540	Cleaning & Sterilization of S3	7	04-Jun-15	10-Jun-15	424	S9-5530		111	111	11		11	111	11.			11.				11		11.			THEFT
S9-5550	Connection to Existing Mains (S3)	7	11-Jun-15	17-Jun-15	424	PRE-3200C, S9-5540		TTT	111	11			111	11	111		11	11		11	11	11	11			
\$9-5600	Over CWB - S5A (30m)	20	27-May-15	12-Jun-15	79	S9-5510 ·		111	111	11			111		111	111	11				11	11	11			ITE
S9-5610	Pressure Test of S5A	7	13-Jun-15	19-Jun-15	65	S9-5600		111	111	11			111	11	111		11	11	11	111	11	11	11			
S9-5700	Over CW8 - S5B (30m)	20	27-May-15	12-Jun-15	79	S9-5600	111	111	111	11	111	111	111	11	111	111	11	11			11	11	11			
S9-5710	Pressure Test of S5B	7	13-Jun-15	19-Jun-15	65	S9-5700	1.1.1	111	did.d.	14	L. S.L.	1.1.1	1.1.1		1.1.1	1.1.1		L				4.4.	4.1.		1.1.1.	tit.
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S9-7000	Over CWB - F3 (100m)	0		27-May-15	503	S6A-1100		111	111	11			111	11	11	111	11	1.1.		111	11	11	11	111		12
S9-7010	Pressure Test of F3	7	28-May-15	03-Jun-15	424	\$9-7000, \$9-7040, \$9-7050, \$9-7070, \$9-7050																				
S9-7020	Cleaning & Sterilization of F3	7	04-Jun-15	10-Jun-15	424	\$9-7010		113	111	11	111	111	111	11	11	111	11	11		111	11	11	11	111		12
S9-7030	Connection to Existing Mains (F3) at Zone C1-3	7	11-Jun-15	17-Jun-15		\$ \$9-7020, PRE-3200C									11											TU
S9-7040	Zone X1-1 - F3 (5m)	0		09-May-15		2 S6A-1200	111	111	111	11	111	111	111	11	11		11	11				11	11	111		1
S9-7050	Zone X1-2 - F3 (5m)	0		09-May-15		2 S6A-1210	111	11	111	11			111	11	11		11	11		11		11	11	111		11.
S9-7060	Zone X1-3 - F3 (5m)	0		22-May-15		S6A-1220		111		11			111	11	11		11	11	11			11	::	111		115
S9-7070	Zone C1-5, C1-7 & C1-9 - Expo Drive East - S3 (20m)	0		27-May-15	1	3 S6A-1100									11		11	11								4
ection 11 of the Works - S	CL Protection Works	0			()	1.1.1	1.1.1		11	1.1.1.	1.1.1			14.	1.5.1	4.4.	1.1.	į.į.,			4.4.		1.4.4	44	44.4
Foundation Works Encountion Works Structural Works		9.6																								
Section 12 of the Works - W	/orks in Area 10 (other than Section 4)	40	24-Nov-14A	31-Mar-15	-32	2	111	111	111	11	111	111	111		11	111	11	11	11	11					:	Seq
VO106-1000A	Backfilling for Kiu Lok Pump House	40	24-Nov-14 A	31-Mar-15	-33	2 VO106-1000									11		11		11							Ba
Section 13 of the Works - W	Vorks in Area 11 (other than Section 11)	40	24-Nov-14A	31-Mar-15	-33					11	111	111	11			111	11	11	11	111		11		×		Compl
S13-3000	Completion of Backfilling to +5.0mPD	0		20-Feb-15		B VO106-2000	111	11		11	111	113	11		11	111	11	11	11			11	11	111		Compl
VO106-2000A	Backlilling for Kiu Lok Pump House	40	24-Nov-14 A	31-Mar-15	-33	2 VO106-2000									1			11								Ba
Section 1 A of the Works - L	andscape Softworks in Areas 2 & 4	D			1	D				11	111		11		11	111	11	11	11	111	110		11	111	11	111
Section 1B of the Works - E	Establishment Works in Areas 2 & 4	0			9	D	1443			11	111	11	11	111	11	111	11	11	11	111	11	11	11	111	11	11.
	andscape Softworks in Area 9	180	20-Feb-15	18-Aug-15	-		11		TTT	11	TTT	11	11		11	11	11	11	TI	111				111	Y	1 1
S9A-1000	Transplanting at Expo Drive East and Convention Avenue Junction	180	20-Feb-15	18-Aug-15	and the second s	3 PRE-2130, PS-P4, EDE-1050																				11
Section 9B of the Works - E	Establishment Works in Area 9	0)	0					111	11	11	111	11	11		11	11	111	11		11	111	11	
	Protection and Preservation of Existing Trees	O					1.2.2.				1. 1 1	: :	11	111	11	11		11	11	111	11			111	11	11

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015 to Aug 2015					
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atement / Shop Drawings					
MS Landscape Deck Structure - Submission	28	20-May-15	16-Jun-15	811	MS Landscape Deck Structure - S
MS Landscape Deck Structure - ER Review & Comment	28	17-Jun-15	14-Jul-15	811	
MS Landscape Deck Structure - Resubmission	28	15-Jul-15	11-Aug-15	811	
MS Noise Semi Enclosure - Submission	60	20-May-15	18-Jul-15	131	
MS Noise Semi Enclosure - ER Review / Comment	28	19-Jul-15	15-Aug-15	131	
MS Approach Ramp - ER Approval	14	01-Feb-15A	02-Jun-15	304	MS Approach Ramp - ER Approval
MS for Partition Walls and outstanding columns at APS Basement - ER No Adverse (0	01-Feb-15A	28-Apr-15 A		Partition Walls and outstanding columns at APS Basement - ER No Adverse Comment
MS EVB Basement & Mezzanine Construction - ER Review / Comment	1	16-Jan-15 A	20-May-15	26	MS EVB Basement & Mezzanine Construction - ER Review / Com
MS EVB Basement & Mezzanine Construction - Resubmission	14	21-May-15	03-Jun-15	26	MS EVB Basement & Mezzanine Construction - R
MS EVB Basement & Mezzanine Construction - No Adverse Comment	14	04-Jun-15	17-Jun-15	26	MS EVB Basement & Mezzanine
MS for Demolition of existing Westbound Bridge - Submission	0	20-Feb-15A	28-Feb-15 A		
MS Demolition of existing Westbound Bridge - ER Review / Comment	0	01-Mar-15 A	15-Mar-15 A		mment
	0	16-Mar-15 A	20-Apr-15 A		existing Westbound Bridge - Resubmission
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	10	-		0	MS for Connection of EVB and EVA - Submission
	12		-	0	MS for Connection of EVB and EVA - EF
	6	-	16-Jun-15	0	MS for Connection of EVB and EV
	-			0	MS for Connection of
	-				MS for Temporary Steel Tower under existing W/B Brigde - ER No
			-		Bridge TA2 - Resubmission
	-			6	MS Temporary Bridge TA2 - ER No Adverse Comment
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0250-1720.31	Precast Beam Bridge E E4E3-B	14	08-May-15 A	05-Jun-15	92		Precast Beam Bridge E E4E3-B
0250-1720.32	Precast Beam Bridge E E4E3-C	14	03-Apr-15 A	05-Jun-15	92		Precast Beam Bridge E E4E3-C
0250-1720.33	Precast Beam Bridge F5 - 10	18	05-Jun-15	27-Jun-15	135		Precast Beam Bridge F5
0250-1720.35	Precast Beam Bridge F5 - 11	18	27-Jun-15	20-Jul-15	135		
0250-1720.36	Precast Beam Bridge F5 - 12	18	20-Jul-15	10-Aug-15	135		
0250-1720.37	Precast Beam Bridge F5 - 13	18	10-Aug-15	31-Aug-15	135		
0250-2070	Bridge F1C Pier 36 T-span Segment Off-site Casting (13 nos.)	31	20-May-15	25-Jun-15	159		Bridge F1C Pier 36 T-span
0250-2080	Bridge F1C Pier 37 T-span Segment Off-site Casting (11 nos.)	27	26-Jun-15	28-Jul-15	159		
0250-2090	Bridge F1C Abut D12 End-span Segment Off-site Casting (7 nos.)	22	20-May-15	13-Jun-15	168		Bridge F1C Abut D12 End-span Segment 0
0250-2100	Bridge F1C Pier 38 End-span Segment Off-site Casting (6 nos.)	19	15-Jun-15	08-Jul-15	176		Bridge F1C
0250-2110	Bridgee F2C Pier 39 T-span Segment Off-site Casting (13 nos.)	0	11-Jan-15 A	26-Mar-15 A		asting (13 nos.)	
0250-2120	Bridge F2C Pier 38 End-span Segment Off-site Casting (5 nos.)	0	09-Jan-15 A	10-Mar-15 A			
0250-2130	Bridge F2C Pier 40 End-span Segment Off-site Casting (5 nos.)	0	09-Feb-15A	10-Mar-15 A			
0250-2140	Bridge F3C Pier 41 T-span Segment Off-site Casting (13 nos.)	31	10-Apr-15 A	25-Jun-15	235		Bridge F3C Pier 41 T-span
0250-2150	Bridge F3C Pier 42 T-span Segment Off-site Casting (11 nos.)	22	18-Apr-15 A	13-Jun-15	244		Bridge F3C Pier 42 T-span Segment Off-si
0250-2160	Bridge F3C Pier 40 End-span Segment Off-site Casting (5 nos.)	16	10-Apr-15 A	06-Jun-15	243		Bridge F3C Pier 40 End-span Segment Off-site Ca
0250-2170	Bridge F3C Pier 43 End-span Segment Off-site Casting (6 nos.)	19	08-Jun-15	30-Jun-15	243		Bridge F3C Pier 43 Ei
A2410	Completion of Beam Off-Site Pre casting (Pier 17 - 20)	0		20-Jul-15	153		
A2420	Completion of Beam Off-Site Pre casting (Pier E2 - E3)	0		05-Jun-15	119		◆ Completion of Beam Off-Site Pre casting (Pier F2 - I
A8380	Bridge F1B2 - Abut D12 Segment - 6 nos. (S2)	19	13-Jun-15	08-Jul-15	393		 Completion of Beam Off-Site Pre casting (Pier E2 - I Bridge F182
A8390	Bridge F1B2 - Pier F1B2 Segment - 13 nos. (S1)	40	02-Jul-15	17-Aug-15	421		
A8410	Bridge F1B2 - Pier F3B2 Segment - 6 nos. (S2)	19	15-Jul-15	06-Aug-15	393		
A8420	Bridge F2B - Pier F3B2 Segment - 5 nos. (S2)	16	13-Aug-15	01-Sep-15	393		
		10		01 000 10	000		
	NARY WORKS						
03.3 - Interface							
A7630.1	TTA for Relocation of Cul-De-Sac > Breaking of Concrete/Road Pavment > Stage 2			06-Mar-15 A		t > Stage 2	
A7631	Relocation of Cul-De-Sac > Excavate & install Manhole > Stage 2	0	06-Mar-15 A	18-Mar-15 A		tage 2	
A7631.1	Relocation of Cul-De-Sac > Backfilling > Stage 2	0		28-Mar-15 A		2	
A7631.2	Relocation of Cul-De-Sac > Sheetpile Removal > Stage 2	0		29-Mar-15 A		al > Stage 2	
A7631.3	Relocation of Cul-De-Sac > Paving Preparation > Stage 2	0		30-Mar-15 A		tion > Stage 2	
A7631.4	Relocation of Cul-De-Sac > Concreting of Pavement + Testing > Stage 2	0		31-Mar-15 A		Pavement + Test	ing > Stage 2
A7631.5	Relocation of Cul-De-Sac > Asphalt paving > Stage 2	0	01-Apr-15 A			g > Stage 2	
A7632	TTA for Relocation of Cul-De-Sac > Stage 3	4	01-Apr-15 A	23-May-15	12		TTA for Relocation of Cul-De-Sac > Stage 3
A7632.12	Relocation of Cul-De-Sac > Opening of Existing Pavement > Stage 3	0	08-Apr-15 A	12-Apr-15 A			ng Pavement > Stage 3
A7632.13	Relocation of Cul-De-Sac > Drive sheetpile & Erect Copperdam > Stage 3	0	13-Apr-15 A	18-Apr-15 A		-Sac > Drive she	etpile & Erect Copperdam > Stage 3
A7632.14	Relocation of Cul-De-Sac > Excavation + Blinding > Stage 3	0	01-Apr-15 A	04-May-15 A		Relocation of Cul	-De-Sac > Excavation + Blinding > Stage 3
A7632.15	Relocation of Cul-De-Sac > Lay Granular Bedding > Stage 3	0	04-May-15 A	05-May-15 A		Relocation of Cu	I-De-Sac > Lay Granular Bedding > Stage 3
A7632.16	Relocation of Cul-De-Sac > Lay 450 and 750 drain > Stage 3	0	05-May-15 A	05-May-15 A			I-De-Sac > Lay 450 and 750 drain > Stage 3
A7632.17	Relocation of Cul-De-Sac > Cast Manhole Benching (2nos) > Stage 3	0	06-May-15 A	08-May-15 A			Cul-De-Sac > Cast Manhole Benching (2nos) > Stage 3
A7632.17.1	Relocation of Cul-De-Sac > Install Water Main	0	01-May-15 A	05-May-15 A			I-De-Sac > Install Water Main
A7632.18	Relocation of Cul-De-Sac > Erect Formwork and Cast Manhole (2nos)> Stage 3	0	06-May-15 A	13-May-15 A		Reloca	ation of Cul-De-Sac > Erect Formwork and Cast Manhole (2nos)> Stage 3
A7632.19	Relocation of Cul-De-Sac > Backfilling > Stage 3	0	14-May-15 A	18-May-15 A			Relocation of Cul-De-Sac > Backfilling > Stage 3
A7632.21	Relocation of Cul-De-Sac > Concreting of Pavement + Testing > Stage 3	1	19-May-15 A	20-May-15	11		Relocation of Cul-De-Sac > Concreting of Pavement + Testing > Stage 3
A7632.22	Relocation of Cul-De-Sac > Asphalt paving > Stage 3	9	21-May-15	30-May-15	11		Relocation of Cul-De-Sac > Asphalt paving > Stage 3
A7634	Relocation Cul-De-Sac	0		30-May-15	11		♦ Relocation Cul-De-Sac
A9200	Installation of JTI Gantry - Footing(Nosing)	0	10-Mar-15 A	14-Mar-15 A			
A9201	Installation of JTI Gantry - Install Holding down Bolts	0	10-Mar-15 A	13-Mar-15 A			
A9202.1	Auto Toll and HKE Commissioning	0	20-Jan-15 A	26-Mar-15 A			
A9203	Installation of JTI Gantry	0	16-Mar-15 A	26-Mar-15 A			
Actual Leve Actual Wor	K 3 M	onths		Contract Program			5 - 19 Aug 2015)
Remaining							
	naining Work						

			A	auct		Imbor
	26	02	09	gust 16	23	mber 30
5 - 10						
	ant Deen	n Bridge	FF 11			
Prec	ast Bean	n Bridge				
			Prec	ast Bean	n Bridge	F5 - 12
						Pre
an Segmer	nt Off-site	e Casting	g (13 nos	.)		
	📃 Brio	dge F1C	Pier 37	T-span S	egment (Off-site
nt Off-site	Casting	(7 nos.)				
1C Pier 38	End-spa	an Seam	ent Off-s	ite Castir	na (6 nos	.)
an Segmer	nt Off-site	e Casting	g (13 nos	.)		
f-site Casti	ng (11 n	os.)				
Casting (5	nos.)					
End-span	Segme	nt Off-sit	e Casting	(6 nos.))	
			Off-Site F			17 - 20)
- E3)					9 (1 .0.	
B2 - Abut	D12 Soc	amont 6	S noo (S			
	D12 Seg	Jinent - 6	5 1105. (54			
					ge F1B2	
		E	Bridge F1	B2 - Pie	r F3B2 S	egment
						Br
3						
e 3						

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tivity ID	Activity Name	temainin S		Start	Finish	Total						2015	
			Duration			Float	May 3 10 1	7 24		June	21 2	3 05	July
A9205.1	Reinstatement of Pavement due to Electrical works a	t Existing W/B Rd.	0	26-Mar-15 A	26-Mar-15 A		ks at Existing W/						
A9205.2	Temporary Relocate FEHD On top of Tunnel (Portic	n IA) > Stage 1	0	30-Mar-15 A	01-Apr-15 A		inel (Portion IA)	> Stage 1					
A9205.3	Temporary Relocate FEHD On top of Tunnel (Portio	n IA) > Stage 2	0	05-Apr-15 A	09-May-15 A		Temporary	Relocate FE	HD On top of	Tunnel (Portio	n IA) > Sta	ge 2	
A9205.4	Removal of JTI Gantry at E/B Bridge		0	03-Apr-15 A	07-Apr-15 A		lge						
05 - SECTION	2 & 2A OF THE WORKS												
	ver Tunnel Ch 4855-4932 (APS Footprint)												
05.1.1 - D-Wall (
A5990	D-Wall Interface Coring		9	16-May-15 A	29-May-15	23			D-Wall Interf	ace Coring			
A6000	D-Wall Grouting/Pressure Grouting		2	30-May-15	01-Jun-15	23			D-Wall G		re Grouting	1	
	unnel Structure											,	
0513-1316	APS Bay 17 Col - (Reb. Fix + Concrete)		0	11-Mar-15 A	08-Apr-15 A		ncrete)						
0513-1530	Tunnel Bay 17 -Tunnel Roof - Steel Fixing		0		07-Mar-15 A								
0513-1540	Tunnel Bay 17 -Tunnel Roof - (Concrete)		0	08-Mar-15 A									
A3800	Tunnel Bay 20 -Tunnel Roof - Steel Fixing		0	12-Mar-15 A	12-Mar-15 A								
A3810	Tunnel Bay 20 -Tunnel Roof - (Concrete)		0	13-Mar-15 A									
A3813	APS Bay 21 Col - (Reb. Fix + Concrete)		0	11-Mar-15 A	08-Apr-15 A		ncrete)						
A3990	Tunnel Bay 21 - Tunnel Roof - Steel Fixing		0	14-Feb-15 A	12-Mar-15 A								
			0	13-Mar-15 A									
A4000	Tunnel Bay 21 -Tunnel Roof - (Concrete)	ag Warko	0		26-Mar-15 A								
A4000.1	Tunnel Bay 21 -Tunnel Roof - Steel Fixing - Remainin	-					aining Works						
A4000.2	Tunnel Bay 21 -Tunnel Roof - (Concrete) - Remainin	•	0		27-Mar-15 A		haining Works						
A5414	APS Basement (Bay 21-North) - Staircase (APS) > S	-	0	09-Mar-15 A			Landing 4						
A5414.1	APS Basement (Bay 21-North) - Staircase Landing 4		0	11-May-15 A					nt (Bay 21-No		.		
A5414.2	APS Basement (Bay 21-North) - Staircase Landing 8	-	6	19-May-15 A	26-May-15	28			S Basement (
A5414.3	Tunnel roof slab - Southside > South Side Corner Be		7	18-Apr-15 A	-	0	· · · · · · · · · · · · · · · · · · ·		unnel roof slat				
A5426	APS Basement (Bay 21-South) - Staircase (APS) > S	-	1	11-May-15 A	-	0			ment (Bay 21-				
A5426.1	APS Basement (Bay 21-South) - Staircase Landing 4	•	9	21-May-15	30-May-15	0			APS Basem				
A5426.2	APS Basement (Bay 21-South) - Staircase Landing 8		10	09-Jun-15	19-Jun-15*	0					PS Baseme		
A5426.3	Tunnel Level - South Side Additional Beam at Bay 21		7	20-May-15	27-May-15	27		T	unnel Level - 3	South Side Ad	ditional Bea	m at Bay 2´	l
A5426.3.1	Reinstate Temporary Opening of Base Slab > Bay 18	3	6	21-May-15	27-May-15	27		R	einstate Temp	orary Opening	g of Base Sl	ab > Bay 18	3
A5426.4	APS Basement (Bay 21-North) - Partition wall		0	06-Apr-15 A	18-May-15 A			APS Baseme	nt (Bay 21-No	th) - Partition	wall		
A5427.1	APS Basement (Bay 21-South) - Partition wall		7	07-Apr-15 A	27-May-15	27		A	PS Basement	(Bay 21-South	n) - Partition	wall	
A5427.2	APS Basement (Bay 20) - Partition wall		0	07-Apr-15 A	16-May-15 A		AP	S Basement	(Bay 20) - Par	tition wall			
A5427.3	APS Basement (Bay 19) - Partition wall		0	15-Mar-15 A	08-Apr-15 A		on wall						
A5427.4	APS Basement (Bay 18) - Partition wall		0	08-Mar-15 A	08-Apr-15 A		on wall						
A5427.5	APS Basement (Bay 17) - Partition wall		0	09-Mar-15 A	08-Apr-15 A		on wall						
A5427.5.1	Tunnel roof slab - Northside > North side Beam		0	28-Apr-15 A	05-May-15 A		Tunnel roof slab	- Northside >	North side Be	am			
A5427.5.2	Tunnel roof slab - Southside > 2M Wall		0	17-Apr-15 A	17-Apr-15 A		ithside > 2M Wal						
A5427.5.3	Tunnel roof slab - Southside > OHVD		0	18-Apr-15 A	27-Apr-15 A		of slab - Southsi	le > OHVD					
A5427.5.4	Tunnel roof slab - Southside > Roof Slab		0	28-Apr-15 A	05-May-15 A		Tunnel roof slab	- Southside :	Roof Slab				
A5427.5.6	Tunnel roof slab - Southside > Reinstate Bay 18 Tem	p Opening	0	24-Apr-15 A	27-Apr-15 A		of slab - Southsi	le > Reinstat	e Bay 18 Temp	Opening			
A5427.5.7	Tunnel Level - North Side Additional Wall at Bay 19		1	17-Apr-15 A	20-May-15	33			vel - North Sic		/all at Bay 1	9	
A5427.6	BHW Coring at C15 & C19 Interface		0	06-Feb-15A	02-Mar-15 A						· · · · · · · · · · · · · · · · · · ·		
A5454	Vertical Saw Cutting of BHW @ 9M(H) X 32M(L)		0	03-Mar-15 A			HW @ 9M(H) >	(32M(L)					
A5465	Horizontal Saw Cutting of BHW @ 9M(H) X 32M(L)		0	16-Mar-15 A			of BHW @ 9M(H						
A5830.1	Removal of Bulkhead Wall Eastbound		0	17-Apr-15 A	30-Apr-15 A		val of Bulkhead		nd				
A5830.2	Stitching - Tunnel base Slab > Eastbound		0	01-May-15 A	· ·				el base Slab >	Fasthound			
A5830.3	Stitching - Roof Slab > Eastbound		5	20-May-15	25-May-15	26		-	hing - Roof SI		d		
A5830.4	Stitching - OHVD > Eastbound		3	26-May-15	28-May-15	26			Stitching - OH				
A5830.4	Removal of Bulkhead Wall > Westbound		10	20-May-15 20-Apr-15 A	-	11				Bulkhead Wal		und	
A3830.0	Removal of Buikilead Wall > Westbound		10	20-Api-13 A	30-May-13				Removal of			inu	
Remaining	Level of Effort 🔶 🔶 Milestone			(Contract	HY/2	2009/19						
Actual Level of Effort					-								
Actual Work			onths	Rollina I	Program	(20	May 2015	5 - 19 A	ua 2015)			
Remaining	Work				3. 4.11	、_•				,			
•	naining Work												

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	19	26	02	09	16	23	30				
8	8										
	e Landin	a 12									
5		y 12									
4											
ta	ircase La	anding 8									
S	Staircase	Landing) 8 > Stair	case L	anding 12						
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y ID	Activity Name		Start	Finish	Total	Max			June		2015
		Duration			Float	May 3 10 7	17 24	31	07 14	21 2	28 05 1
A5830.7	Stitching - Tunnel base Slab > Westbound	5	01-Jun-15	05-Jun-15	11			St	itching - Tunnel		
A5830.8	Stitching - Roof Slab > Westbound	5	06-Jun-15	11-Jun-15	11				Stitching -	Roof Slab >	> Westbound
A5830.9	Stitching - OHVD > Westbound	3	12-Jun-15	15-Jun-15	11				Stitch	ning - OHVE	D > Westbound
A5830.9.1	Completion of Outstanding Works at APS & Tunnel	0		15-Jun-15	11				♦ Com	pletion of O	utstanding Works
05.1.4 - Tunnel	Structure										
A5393	Tunnel Bay 16 -Tunnel Roof - Steel Fixing	0	14-Feb-15A	07-Mar-15 A							
A5394	Tunnel Bay 16 - Tunnel Roof - (Concrete)	0	08-Mar-15 A	08-Mar-15 A							
A5395	Weak Seam Rectification works for sub-standard D-Wall	7	10-Mar-15 A	27-May-15	27			Weak Seam	Rectification wo	orks for sub-	standard D-Wall
A5396	Complete Tunnel Roof	0		08-Mar-15 A							
05.1.5 - EVB Su	b-structure & Tunnel			1							
A10530	Tunnel Roadside/Profile Barrier and Cable Trough Portion IB & ID > Bay 14-16	8	20-May-15	28-May-15	0			Tunnel Roa	dside/Profile Ba	arrier and Ca	able Trough Portion
A10540	Tunnel Roadside/Profile Barrier and Cable Trough Portion IB & ID > Bay 16-19	8	29-May-15	06-Jun-15	0				unnel Roadsid	e/Profile Bar	rrier and Cable Tr
A5513	Tunnel Roadside/Profile Barrier and Cable Trough Portion IB & ID > Bay 19-21	8	08-Jun-15	16-Jun-15	0						de/Profile Barrier
A5514	Tunnel Roadside/Profile Barrier and Cable Trough Portion IVIIIB & IXB	10	17-Jun-15	29-Jun-15	0						Tunnel Roadside
A5524	EVB Basement (Zone A1) - Partition Wall (Reb. Fix + Concreting) > CH4850-CH487	8	29-Jul-15	06-Aug-15	3						
A5534	EVB Basement (Zone A1) - Staircase-2nos.(Reb. Fix + Concreting) >CH4850-CH48	8	07-Aug-15	15-Aug-15	41						
A5544	EVB Basement (Zone A2) - Partition Wall (Reb. Fix + Concreting)> CH4875-CH490	8	17-Aug-15	25-Aug-15	41						
A5554	EVB Basement (Zone A2) - Staircase-1nos.(Reb. Fix + Concreting)> CH4875-CH49	8	26-Aug-15	03-Sep-15	45						
A5564	EVB Basement (Zone B1) - Partition Wall (Reb. Fix + Concreting)> CH4900-CH492	8	09-Sep-15	17-Sep-15	41						
A5744	EVB Mezzanine (Zone A1) - (Reb. Fix + Concreting)> CH4850-CH4875	14	07-Aug-15	22-Aug-15	3						
A5754	EVB Mezzanine (Zone A1) - Staircase-2nos.(Reb. Fix + Concreting)> CH4850-CH4	14	24-Aug-15	08-Sep-15	3						
A5764	EVB Mezzanine (Zone A2) - (Reb. Fix + Concreting)> CH4875-CH4900	14	09-Sep-15	24-Sep-15	3						
A5784	EVB Mczzanine (Zone B1) - Partition Wall (Reb. Fix + Concreting)> CH4900-CH492	14	25-Sep-15	13-Oct-15	3						
	ver Tunnel Ch 4932-5149	17	20 000 10	10 000 10	0						
05.2.3 - ELS	ver fulliter off 4552-5145										
A10400	Tunnel Bay 1 & 2 Duct room wall steam	7	13-Mar-15 A	27-May-15	27			Tunnel Bay 1	& 2 Duct room	wall steam	
A4192	Pump Sump E - Storm Water Room Collection	7	20-May-15	27-May-15	27				E - Storm Wat		
05.2.4 - Tunnel		,	20 May 10	27 May 10	21						
0524-2535	Waterproof Top Slab Bay 1 to Bay 4	0	16-Apr-15 A	17-Apr-15 A		Bay 1 to Bay 4					
	Miscellaneous Works	,									
0525-2882	Backfill above Tunnel Structure Bay 1 to Bay 4	0	18-Apr-15 A	26-Apr-15 A		ve Tunnel Struc	ure Bay 1 to	o Bav 4			
0525-2900	Tunnel Roadside/Profile Barrier (excl vent bldg)	3	05-Aug-14 A	· ·	31				rofile Barrier (e	xcl vent bldc	
0525-2940	Backfill above Tunnel Structure Bay 5 to Bay 9	0	-	17-Mar-15 A	•••						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
A10410	Paving Bay 13 - 5	0	16-Feb-15A	19-Mar-15 A							
A10420	Paving Bay 4 - 1	2		22-May-15	44		Paving	n Bav 4 - 1			
A10430	Drainage Bay 13 - 5	0	23-Feb-15A	16-Mar-15 A							
A10430	Drainage Bay 4 - 1	0	20-Apr-15 A	27-Apr-15 A		Bay 4 - 1					
A10440	Provisioning of Carwash Machine - Temp FEHD	0	08-Apr-15 A	22-Apr-15A		Carwash Machin	o - Tomn Fl	ЕНП			
A10450	Road & Carpark Marking - Temp. FEHD	0	18-Mar-15 A	22-Apr-13A 29-Mar-15A							
A10400	Lighting - Temp FEHD	0		31-Mar-15 A							
		-									
A10480	Portal Wall at top of tunnel	0		25-Feb-15 A			T	la anna da Dan	44.04		
A10527	Remove Tunnel Falseworks Bay 14-21	0	20-Mar-15 A	12-May-15 A	07	Remov		Iseworks Bay			
A10589.2	Remedial Works - Bay 9 OHVD - WestBound	7	20-May-15	27-May-15	27				orks - Bay 9 OH		
A10589.6	Remedial Works - Concrete Repair Works / Trim overbreak Concrete Etc, Honeycon	7	09-Mar-15 A	27-May-15	27						rks / Trim overbre
A10589.6.7	Remedial Works - Sealing off Water Leakage at D-Wall	7		27-May-15	27						akage at D-Wall
A10589.8	Waterproofing of D-Walls Bay 1-13	7	20-May-15	27-May-15	27				ig of D-Walls Ba		
A10589.9	Waterproofing of D-Walls Bay 14-21	7	20-May-15	27-May-15	27				ig of D-Walls Ba		
A10590	Complete Remaining work at C/C Tunnel	0		27-May-15	27		•	Complete Re	maining work a	at C/C Tunn	el
6 - SECTION	N 3 OF THE WORKS										
- Demoining	Level of Effort A Milestere			2 - 10 1 10 - 1							
-	Level of Effort Milestone		(Contract	HY/2	2009/19					
Actual Leve											
• • • • • • •											
Actual Wor		onths	Rolling I	Program	(20	May 2015) - 19 A	ug 201	5)		

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19	2	6	02	09	16	23	30
				•	L		
APS & Tu	unnel						
B & ID >	Bay 1	4-16					
gh Portio			Bay 16	-19			
Cable Tr	rouah	Portic	on IB &	ID > Bay	/ 19-21		
ofile Barr	ier an	nd Cat	ole Trou	Jah Porti	y 19-21 on IVIIIB	& IXB	
				=VB Bas	ement (7	one A1)	- Partitio
					ement (Z	asement	(Zone A
							B Baser
						EVB M	ezzanin
Concrete	E EtC, F	ioney	coms/la	mance, e	etC.		

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Activity ID	Activity Name			Start	Finish	Total					2015	
			Duration			Float	May 3 10 ⁻	17 24	31 07	June 14 21	28 0	July 5 12
06.2 - Box Culve	ert U1											<u> </u>
A9180	In-Situ Testing of Drainage Pipe		0	19-Jan-15 A	20-Apr-15 A		Drainage Pipe					
06.3 - Admin Bui	ilding											
0630-3119.13.1	Grd. Beam - (GL > L2-N6) - Blinding of Cap & Grnd	l. Beam	2	02-Jul-15	04-Jul-15	27					🗖 Gro	d. Beam - (G
0630-3119.13.2	Grd. Beam - (GL > L2-N6) - Install Capping Plate + v	veld Test	5	04-Jul-15	10-Jul-15	27						📕 Grd. Bea
0630-3119.14	Grd. Beam - (GL > L2-N6) - Reb Fix + Forworks (Gr	rd. Beam & Pile Cap) > Part1	13	10-Jul-15	25-Jul-15	27						
0630-3119.15	Grd. Beam - (GL > L2-N6) - Reb Fix + Forworks (Gr	rd. Beam & Pile Cap) > Part2	9	25-Jul-15	05-Aug-15	27						
0630-3119.16	Grd. Beam - (GL > L2-N6) - Concreting (Grd. Beam	& Pile Cap)	1	05-Aug-15	06-Aug-15	27						
0630-3119.18	Grd. Beam - (GL > L2-N6) - Formworks, sheet-Pile	Removal and Backfill	4	06-Aug-15	11-Aug-15	27						
0630-3119.24	Grd. Beam - (GL > G2-K6) - Rebar Fixing (Grd. Bea	.,	0	03-Mar-15 A	06-Apr-15 A		r Fixing (Grd. Be	am & Pile Ca	p)			
0630-3119.25	Grd. Beam - (GL > G2-K6) - Erect Formworks (Grd.	Beam & Pile Cap)	0	07-Apr-15 A	12-Apr-15 A		- Erect Formwor	ks (Grd. Bea	m & Pile Cap)			
0630-3119.26	Grd. Beam - (GL > G2-K6) - Concreting (Grd. Beam	n & Pile Cap)	0	13-Apr-15 A	13-Apr-15 A) - Concreting (C	rd. Beam & F	Pile Cap)			
0630-3119.27	Grd. Beam - (GL > G2-K6) - Backfill		0	14-Apr-15 A	30-Apr-15 A		Beam - (GL > G					
0630-3119.84	Grd. Beam - (GL > A1-B6) - Install Capping Plate		0	06-Mar-15 A	21-Mar-15 A							
0630-3119.85	Grd. Beam - (GL > A1-B6) - (Grd. Beam & Pile Cap) + Formworks Part 1	0	22-Mar-15 A	17-Apr-15 A		I-B6) - (Grd. Be	am & Pile Ca	p) + Formwork	s Part 1		
0630-3119.86	Grd. Beam - (GL > A1-B6) - (Grd. Beam & Pile Cap)	+ Formworks Part 2	0	17-Apr-15 A	28-Apr-15 A		am - (GL > A1-B	· · ·	• •			
0630-3119.87	Grd. Beam - (GL > A1-B6) - Backfill		0	18-Apr-15 A	09-May-15 A		Grd. Beam	- (GL > A1-B	6) - Backfill			
0630-3119.91.1	Grd. Beam - (GL > C1-F2) - Drive Sheet-Pile Coppe	erdam - Stage 2 (Subject to CC	14	19-Jun-15	08-Jul-15	23						Grd. Beam
0630-3119.92	Grd. Beam - (GL > C1-F2) - Excavate G.L to +1.0ml	PD and install Waling/Strut	6	08-Jul-15	15-Jul-15	23					[Gr
0630-3119.93	Grd. Beam - (GL > C1-F2) - Excavate Pile-Cap B.L	to -0.7mPD and Cast Vert/Hor I	3	15-Jul-15	18-Jul-15	23						
0630-3119.94	Grd. Beam - (GL > C1-F2) - Install Capping Plate		6	18-Jul-15	25-Jul-15	23						
0630-3119.95	Grd. Beam - (GL > C1-F2) - Beam Blinding Layer		3	25-Jul-15	29-Jul-15	23						
0630-3119.96	Grd. Beam - (GL > C1-F2) - Rebar Fixing (Grd. Bea	m & Pile Cap) + Formworks	8	29-Jul-15	07-Aug-15	23						
0630-3119.97	Grd. Beam - (GL > C1-F2) - Concreting (Grd. Beam	ı & Pile Cap)	1	07-Aug-15	08-Aug-15	23						
0630-3119.98	Grd. Beam - (GL > C1-F2) - Formworks, Sheet-Pile	Removal and Backfill	6	08-Aug-15	15-Aug-15	23						
0630-3121.49	Grd. Beam - (GL > P3-R6) - Back Fill		0	07-Feb-15A	06-Mar-15 A							
0630-3121.57.11	Grd. Beam - (GL > B2-C6) - Excavate to formation k	evel	9	09-Jun-15	19-Jun-15	42				Grd.	Beam - (GL > B	2-C6) - Exca
0630-3121.57.12	Grd. Beam - (GL > B2-C6) - Install Capping Plate		7	19-Jun-15	29-Jun-15	42					Grd. Bea	m - (GL > B2
0630-3121.57.13	Grd. Beam - (GL > B2-C6) - Cast Beam Blinding La	yer	1	29-Jun-15	30-Jun-15	42					🛛 Grd. Be	am - (GL > B
0630-3121.57.14	Grd. Beam - (GL > B2-C6) - Rebar Fixing for Beam		7	30-Jun-15	09-Jul-15	42						Grd. Bean
0630-3121.57.15	Grd. Beam - (GL > B2-C6) - Erect Formworks for B	eam	7	09-Jul-15	17-Jul-15	42						
0630-3121.57.16	Grd. Beam - (GL > B2-C6) - Cast Concrete for Bea	m	3	17-Jul-15	21-Jul-15	42						
0630-3121.57.17	Grd. Beam - (GL > B2-C6) - Formworks, sheet-Pile	Removal and Backfill	3	21-Jul-15	24-Jul-15	42						
0630-3121.57.21	Grd. Beam - (GL > F-G) - Excavate to formation lev	el	9	19-Jun-15	02-Jul-15	33					Grd.	Beam - (GL >
0630-3121.57.22	Grd. Beam - (GL > F-G) - Install Capping Plate		7	02-Jul-15	10-Jul-15	33						Grd. Bea
0630-3121.57.23	Grd. Beam - (GL > F-G) - Cast Beam Blinding Laye	r	1	10-Jul-15	11-Jul-15	33						Grd. Be
	Grd. Beam - (GL > F-G) - Rebar Fixing for Beam		7	11-Jul-15	20-Jul-15	33						
	Grd. Beam - (GL > F-G) - Erect Formworks for Bea	m	7	20-Jul-15	28-Jul-15	33						
	Grd. Beam - (GL > F-G) - Cast Concrete for Beam		3	28-Jul-15	31-Jul-15	33						
	Grd. Beam - (GL > F-G) - Formworks, sheet-Pile R	emoval and Backfill	3	31-Jul-15	04-Aug-15	33						
	Grd. Beam - (GL > K-L) - Excavate to formation level		9	02-Jul-15	13-Jul-15	24						Grd.
	Grd. Beam - (GL > K-L) - Install Capping Plate		7	13-Jul-15	21-Jul-15	24	1					
	Grd. Beam - (GL > K-L) - Cast Beam Blinding Layer		1	21-Jul-15	22-Jul-15	24						
	Grd. Beam - (GL > K-L) - Rebar Fixing for Beam		7	22-Jul-15	30-Jul-15	24						
	Grd. Beam - (GL > K-L) - Erect Formworks for Beau	m	7	30-Jul-15	07-Aug-15	24						
	Grd. Beam - (GL > K-L) - Cast Concrete for Beam		3	07-Aug-15	11-Aug-15	24						
	Grd. Beam - (GL > K-L) - Formworks, sheet-Pile R	emoval and Backfill	3	11-Aug-15	14-Aug-15	24						
08 - SECTION				- 5	- 3							
	Wall 'F' Substructure											
Remaining I	evel of Effort 🔶 🔶 Milestone			(Contract	HY/	2009/19					
Actual Level				•								
Actual Work		2 Ma	nthe	Rolling	Droaram	(20	May 2015	5 _ 10 A	ua 2015			
Remaining V		JIVIC	1113		ogram	(20	way 2013	- 13 A	uy 2015			
Critical Rema												

August mber
GL > L2-N6) - Blinding of Cap & Grnd. Beam
eam - (GL > L2-N6) - Install Capping Plate + weld Test
Grd. Beam - (GL > L2-N6) - Reb Fix + Forworks
Grd. Beam - (GL > L2-N6) - Reb Fi
□ Grd. Beam - (GL > L2-N6) - Conc
Grd. Beam - (GL > L2-N6) -
$am_{-}(GI > C1_F2)_{-}$ Drive Sheet Dile Connordom Store 2 (
am - (GL > C1-F2) - Drive Sheet-Pile Copperdam - Stage 2 (
Grd. Beam - (GL > C1-F2) - Excavate G.L to +1.0mPD and ir
Grd. Beam - (GL > C1-F2) - Excavate Pile-Cap B.L to -0.
Grd. Beam - (GL > C1-F2) - Install Capping Plate
Grd. Beam - (GL > C1-F2) - Beam Blinding
Grd. Beam - (GL > C1-F2) - Ret
□ Grd. Beam - (GL > C1-F2) - Cc
Grd. Beam - (GL > C1-
cavate to formation level
B2-C6) - Install Capping Plate
B2-C6) - Cast Beam Blinding Layer
am - (GL > B2-C6) - Rebar Fixing for Beam
Grd. Beam - (GL > B2-C6) - Erect Formworks for Beam
Grd. Beam - (GL > B2-C6) - Cast Concrete for Beam
Grd. Beam - (GL > B2-C6) - Formworks, sheet-P
L > F-G) - Excavate to formation level
eam - (GL > F-G) - Install Capping Plate
Beam - (GL > F-G) - Cast Beam Blinding Layer
Grd. Beam - (GL > F-G) - Rebar Fixing for Beam
Grd. Beam - (GL > F-G) - Erect Formworks
Grd. Beam - (GL > F-G) - Cast Concrete
Grd. Beam - (GL > F-G) - Formwor
d. Beam - (GL > K-L) - Excavate to formation level
Grd. Beam - (GL > K-L) - Install Capping Plate
Grd. Beam - (GL > K-L) - Cast Beam Blinding Layer
Grd. Beam - (GL > K-L) - Rebar Fixing for
Grd. Beam - (GL > K-L) - Erect
Grd. Beam - (GL > K-L) - C
Grd. Beam - (GL > K-L)
1

Page 5 of 14

ty ID	Activity Name	Remaining		Finish	Total	Maria			hung	20	2015 Ju
		Duration			Float	May 3 10 1	7 24	31	June 07 14	21 28	05
A7671	Retaining Wall F Pre-Bored H-Pile - H - Beam + Grout > BS40a	0	07-Feb-15A	04-Mar-15 A			· ·			[[
A7672	Retaining Wall F Pre-Bored H-Pile - H - Beam + Grout > BS40b	0	30-Jan-15 A	06-Mar-15 A							
A7673	Retaining Wall F Pre-Bored H-Pile - H - Beam + Grout > BS41a	0	04-Feb-15A	06-Mar-15 A							
A7740.1	Retaining Wall F Pre-Bored H-Pile - H - Installing H-Pile > BS45a	0	31-Dec-14 A	24-Feb-15 A							
A7740.2	Retaining Wall F Pre-Bored H-Pile - H - Extract H-Pile due to Collapse of soil > E	BS4 0	25-Feb-15 A	03-Mar-15 A		> BS45a			,		
A7740.3	Retaining Wall F Pre-Bored H-Pile - H - Grout plug > BS45a	0	04-Mar-15 A	06-Mar-15 A							
A7740.4	Retaining Wall F Pre-Bored H-Pile - H - Beam + Grout > BS45a	0	06-Mar-15 A	26-Mar-15 A		Grout > BS45a					
A7791	Retaining Wall F Pre Bored - H > Pile Testing	18	27-Oct-15	16-Nov-15	138						
A7792.1	Construction of pile cap for Retaining Wall F > C4-1	8	17-Nov-15	25-Nov-15	138						
A7792.2	Construction of pile cap for Retaining Wall F > C4-2	8	26-Nov-15	04-Dec-15	138						
A7792.3	Construction of pile cap for Retaining Wall F > C5-1	8	05-Dec-15	14-Dec-15	138						
A7792.4	Construction of pile cap for Retaining Wall F > C5-2	8	15-Dec-15	23-Dec-15	138						
A7792.5	Construction of pile cap for Retaining Wall F > C5-3	8	24-Dec-15	04-Jan-16	138						
A7792.6	Construction of pile cap for Retaining Wall F > C5-4	8	05-Jan-16	13-Jan-16	138						
A7800	Complete Pre-Bored H-Pile > Retaining Wall	0		26-Mar-15 A							
9 - SECTION	N 6 OF THE WORKS										
09.2 - Westbour	nd - Pier 26-27										
0920-2110	Pier 26-2 Pre-Bored H-Piles	0	07-Feb-15A	24-Mar-15 A							
0920-2111	Pier 26-1 Pre-Bored H-Piles	0	09-Mar-15 A	25-Mar-15 A							
0920-2150	Pier 27 Prepare C.J. and Modify Tie Beam	18	25-Jul-15	14-Aug-15	51						
0920-2160	Pier 27 Construct Pier/Column	18	15-Aug-15	04-Sep-15	51						
0920-2180	Pier 26 Prepare C.J. + Drill in Re-bar + Modify Pilecap	18	14-Aug-15	03-Sep-15	35						
10 - SECTION	N X OF THE WORKS										
	ges (Bridge D, E and F)										
	Pier Construction										
Pier F01 to F02	2										
1011-2900	F1B Pier/Column Construction	12	20-May-15	02-Jun-15	116			F1B F1B P	Pier/Column Con	struction	
1011-2910	F1B Crosshead Construction	18	03-Jun-15	24-Jun-15	116						head Const
1011-2930	Bearing installation pier F1B/F2B	12	25-Jun-15	09-Jul-15	116						
10.1.3 - E/B Brid	Ige Construction										
All E/B Bridges											
1013-1720		0	02-Dec-14 A	09-Mar-15 A							
1013-1730	Permanent Noise Barrier Type A1 E/B Bridge Ch 826-962 (136m)	0		17-Mar-15 A		136m)					
1013-1730.1	Green Panel Installation	0	12-Nov-14 A	28-Mar-15 A		· · · · · · · · · · · · · · · · · · ·					
A7621	Remaining E/B Bridges Bitumin Paving Works + Marking - Bridge D1 & D2	0	18-Mar-15 A	19-Mar-15 A		Bridge D1 & D2					
10.1.4 - Bridge B	E / Hing Fat Slip Road										
Pier Construct											
A4822	Bridge E (Pier E3) - Pile Cap + Pier Const.	14	17-Aug-15	01-Sep-15	16						
Bridge Constru				· ·							
A9260	Bridge E (Pier 18-19) - Rebar Fix > Diaphragm + Slab + Pipe install	0	13-Feb-15A	26-Feb-15 A							
A9270	Bridge E (Pier 18-19) - Formworks > Slab	0		26-Feb-15 A							
A9280	Bridge E (Pier 18-19) - Concreting > Diaphram + Slab	0		27-Feb-15 A							
A9310	Bridge E (Pier 18-19) - Stitching > Reb. Fix + Concretin	0		16-Mar-15 A							
A9360	Bridge E (Pier 17 - 18) - Rebar Fix > Diaphragm + Slab + Pipe install	0	17-Feb-15A	02-Mar-15 A							
A9370	Bridge E (Pier 17 - 18) - Formworks > Slab	0	02-Mar-15 A	02-Mar-15 A							
A9380	Bridge E (Pier 17 - 18) - Concreting > Diaphram + Slab	0	03-Mar-15 A	03-Mar-15 A							
A9400	Bridge E (Pier 17 - 18) - Stitching > Reb. Fix + Concretin	0		16-Mar-15 A							
A9450	Bridge E (Pier 19 - D1) - Rebar Fix > Diaphragm + Slab + Pipe install	0		07-Mar-15 A							
	Bridge E (Pier 19 - D1) - Formworks > Slab	0		07-Mar-15 A							
A9460					11\///						
			A			//////////////////////////////////////					
Remaining	Level of Effort Milestone		(Contract	HY/	2009/19					
Remaining Actual Leve	el of Effort								c \		
Remaining	el of Effort k 3	Months				May 2015	- 19 A	ug 201	5)		

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19	26	02	09	igust 16	23	30
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				Dior 27	Droparo	C L an
				Pier 27	Frepare	C.J. all
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ion installatior	nior E1					
Installation		D/FZD				
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	Paş	ge 6 of 1	14			

vity ID	Activity Name			temainin Start Fi	Finish	Total				2015	
		Du	uration			Float	May 3 10 1	7 24	June 31 07 14	21 28	Jul 05 12
A9470	Bridge E (Pier 19 - D1) - Concreting > Diaphram + S	Slab	0	09-Mar-15 A	09-Mar-15 A						00 12
A9472	Bridge E (Pier E1 - D1) - Temporary L3 Parapet Rai	lings	0	18-Feb-15 A	13-Mar-15 A						
A9500	Bridge E (Pier 16 - 19) - Lightings		0	24-Feb-15 A	23-Mar-15 A						
A9510	Bridge E (Pier 17 - 19) - MJ		0	18-Mar-15 A	22-Mar-15 A						
A9520	Bridge E (Pier 17 - 19) - install pre-cast Parapet		0	06-Mar-15 A	18-Mar-15 A						
A9521	Bridge E (Pier 17 - 19) - Instatall L3 Railing/Parapet		0	18-Mar-15 A							
A9540	Bridge E (Pier 17 - D1) - Drainage Gully		0	16-Mar-15 A	21-Mar-15 A						
A9560	Bridge E (Pier 19 - D1) - Parapet		14	20-May-15	04-Jun-15	764			Bridge E (Pier 19 - D)1) - Parapet	
A9561	Bridge E (Pier 19 - D1) - Noise Barrier > Post + Pan	el		05-Jun-15	22-Jun-15	764				Bridge E (Pier	r 19 - D1) - N
A9570	Bridge E (Pier 19 - D1) - Green Panel Installation			23-Jun-15	25-Jun-15	764				Bridge E (I lei	
A9590	Bridge E (Pier D1) - MJ		0		21-Mar-15 A	704					
A9600	Bridge E (Pier 17 - D1) - Asphalting		-	23-Mar-15 A							
A9610	Bridge E (Pier 17 - D1) - Road Marking			27-Mar-15 A							
A9620	Bridge E (Pier 17 - D1) - Signage		0	26-Mar-15A							
			0	20-101ai - 15 A	27-IVIAI-15A						
	es (Bridge C and F)										
10.2.1 - Pier Con	struction										
Pier 38 to 43						10-					
1021-1250	Pier 42 (F7C) Prepare C.J. at Existing Pile Cap			08-Aug-15	20-Aug-15	137					
1021-1280	Pier 43 (F8C) Prepare C.J. at Existing Pile Cap		11	01-Aug-15	13-Aug-15	155					
Pier 28											
1021-1112	Pier 28 Prepare C.J. and Modify Tie Beam			06-Jul-15	25-Jul-15	0					
1021-1115	Pier 28 Construct Pier/Column		18	27-Jul-15	15-Aug-15	0					
Abutment D12											
A10720	Construct Abutment D12 Existing W/B & E/B Bridge	- Excav. Bored Pile (4 nos)	0	13-Mar-15 A	16-Mar-15 A		Bored Pile (4 no)			
A10730	Construct Abutment D12 W/B Bridge - Prepare CJ		0	17-Mar-15 A	07-Apr-15 A		lge - Prepare C.				
A10740	Construct Abutment D12 - Construct Abut D12 Pile C	Cap + Backfill	0	08-Apr-15 A	21-Apr-15 A		ent D12 - Constr	uct Abut D12	2 Pile Cap + Backfill		
Pier 20 to 25						- 10					
1021-1019	Pier 23-1 Pre-Bored H-Piles		14	19-May-15 A		49	• • • • • • • • • • • • • • • •		Pier 23-1 Pre-Bored		
1021-1020	Pier 23-2 Pre Bored H-Piles			25-May-15	09-Jun-15	48			Pier 23-2 Pre		
1021-1030	Pier 23 Bored Pile Testing		12	10-Jun-15	24-Jun-15	99				Pier 23 Bor	ed Pile Testi
A7230	Pier 25 Prepare C.J. and Modify Tie Beam		18	03-Sep-15	23-Sep-15	48					
10.2.2 - Bridge C	construction										
Bridge C4											
1022-1081.0	Bridge C4 Erect Pier Segment (1no.) at Piers 31 By		5	20-Aug-15	26-Aug-15	54					
1022-1090.7	Bridge C4 Erect Pier Segment (1no.) at Piers 29 By		5	30-Jul-15	05-Aug-15	42					
1022-1090.8	Bridge C4 Erect Pier Segment (1no.)at Piers 30 By (Crane	1	10-Aug-15	11-Aug-15	37					
All W/B Bridges											
A11770	Decommissioning of Exis. Fire mains & Fire Hyd. at N	Meddian Barrier	0	16-Mar-15 A	27-Mar-15 A		. at Meddian Bai	rier			
A11780	Installation of New Fire Mains		0	16-Mar-15 A	27-Mar-15 A						
A11790	Install Temporary Lighting at Existing E/B Bridge		0	16-Mar-15 A	19-Mar-15 A						
A11800	Installation of Temporary L3 Barrier		0	19-Mar-15 A	18-Apr-15 A		rary L3 Barrier				
A11810	Install Traffic Signage		0	15-Apr-15 A	18-Apr-15 A		e				
A12960	Saw - Cutting of Slab at W/B Bridge (Pier 28-29)		0	11-May-15 A	16-May-15 A		Sa	w - Cutting c	of Slab at W/B Bridge (Pier 28	8-29)	
A12960.1	Saw - Cutting of Slab at W/B Bridge (Pier 29-30)		1	17-May-15 A		24		Saw - Cu	Itting of Slab at W/B Bridge (F	Pier 29-30)	
A12960.2	Saw - Cutting of Slab at W/B Bridge (Pier 32-33)		3	21-May-15	23-May-15	24			Cutting of Slab at W/B Bridge		
A12960.3	Saw - Cutting of Slab at W/B Bridge (Pier 33-34)		3	25-May-15	27-May-15	24			Saw - Cutting of Slab at W/B		-34)
A12960.4	Saw - Cutting of Slab at W/B Bridge (Pier 30-31)		3	28-May-15	30-May-15	24			Saw - Cutting of Slab at W		
A12960.5	Saw - Cutting of Slab at W/B Bridge (Pier 31-32)		3	01-Jun-15	03-Jun-15	31			Saw - Cutting of Slab		
A12980	Saw - Cutting Meddian Barrier (Pier 28-29)		0	05-May-15 A		01	Saw - C	uttina Meddi	an Barrier (Pier 28-29)		
				_	_						
-	evel of Effort Milestone			(Contract	HY/2	2009/19				
Actual Level											
Actual Work		3 Mont	ths	Rolling F	Program	(20	May 2015	5 - 19 A	ug 2015)		
Remaining V	Vork		-	5	5	•					
	aining Work	1								1	

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19	26	02	09	gust 16	23	mber 30
se Barrier	> Post +	Panel				
Green Pa	nel Install	ation				
				F	Pier 42 (F	7C) Pr
				Pier 43 (I		
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			🔲 Bri	dge C4 E	Frect Pier	Segme
	Pag	ge 7 of 1	4			

y ID	Activity Name	temaining Duration	Start	Finish	Total Float	Мау		June	2015 July
		Duration			Fillat		7 24	31 07 14 21	28 05 12
A12990	Saw - Cutting Meddian Barrier (Pier 29-30)	0	05-May-15 A	11-May-15 A		Saw - C	utting Meddia	an Barrier (Pier 29-30)	<u> </u>
A12990.1	Saw - Cutting Meddian Barrier (Pier 30-31)	0	12-May-15 A	18-May-15 A			Saw - Cutting	g Meddian Barrier (Pier 30-31)	
A12990.2	Saw - Cutting Meddian Barrier (Pier 31-32)	6	19-May-15 A	26-May-15	38	_	Sa	aw - Cutting Meddian Barrier (Pie	er 31-32)
A13000	Saw - Cutting Meddian Barrier (Pier 32-33)	6	27-May-15	02-Jun-15	67			Saw - Cutting Meddian Ba	rrier (Pier 32-33)
A13010	Saw - Cutting Meddian Barrier (Pier 33-34)	6	27-May-15	02-Jun-15	69			Saw - Cutting Meddian Ba	rrier (Pier 33-34)
A13040	Saw - Cutting Parapet (Pier 28-29)	0	08-May-15 A	11-May-15 A		🗖 Saw - Cu	tting Parape		
A13050	Saw - Cutting Parapet (Pier 29-30)	0	12-May-15 A	15-May-15 A		Saw	- Cutting Pa	arapet (Pier 29-30)	
A13050.1	Saw - Cutting Parapet (Pier 30-31)	0	16-May-15 A	19-May-15 A			Saw - Cuttir	ng Parapet (Pier 30-31)	
A13050.2	Saw - Cutting Parapet (Pier 31-32)	5	20-May-15	25-May-15	39		Sav	v - Cutting Parapet (Pier 31-32)	
A13060	Saw - Cutting Parapet (Pier 32-33)	5	26-May-15	30-May-15	66			Saw - Cutting Parapet (Pier 3	,2-33)
A13070	Saw - Cutting Parapet (Pier 33-34)	5	01-Jun-15	05-Jun-15	66			Saw - Cutting Parapet	
A8060	Saw Cutting/Opening of Median Barrier at Existing W/B bridge > (Pier 15-21 & 44-4)	0	16-Mar-15 A	12-Apr-15 A		dian Barrier at E	istina W/B b	ridge > (Pier 15-21 & 44-49)	· · · · · · · · · · · · · · · · · · ·
A8060.1	Complete Demolition of Median Barrier at Existing W/B bridge > (Pier 15-21 & 44-49	0	30-Mar-15 A	15-Apr-15 A				B bridge > (Pier 15-21 & 44-49)	
A8061	Opening of Median Barrier > (Pier 15-21 & 44-49) - Paving + Rd. marking	0	11-Apr-15 A	18-Apr-15 A				- Paving + Rd. marking	
A8061.1	Install Precast Barrier > (Pier 15-21 & 44-49)	0	13-Apr-15 A	18-Apr-15 A		r > (Pier 15-21 8			
A8061.2	Saw - Cutting of Slab at W/B Bridge (Pier 26-44) - Along Meddian Beams - Part 1	0	15-Nov-14 A			<u>`</u>		g Meddian Beams - Part 1	
10.3 - Middle Bri		0	13-110V-14 A	13-Api-13A			.0-44) - Alon	g Medulari Dearris - Part T	
10.3.1 - Pier Con									
Abutment D12	Sinucion								
1031-1058	Abut D12 (Approach Ramp Area) - Reb Fix + Concrete Pour 3	0	27-Dec-14 A	22-Apr-15 A		oach Ramp Area) Dob Fix 4	Concrete Dour 2	
					60	oach Ramp Area) - RED FIX +		
A14460	Complete ABUT D12 at Middle Bridge	45	20-May-15	13-Jul-15	63				Com
0.4 - Bridge De									
	W/B Bridge (Part 1)								
A11840	Demolish W/B Bridge Deck Pier 28-29 (7 beams) > by Crane	0	12-May-15 A	-				//B Bridge Deck Pier 28-29 (7 bea	
A11850	Demolish W/B Bridge Deck Pier 29-30 (7 beams) > by Crane	5	21-May-15	27-May-15	23			emolish W/B Bridge Deck Pier 2	
A11860	Demolish W/B Bridge Pier 29	4	27-May-15	01-Jun-15	23			Demolish W/B Bridge Pier 2	9
A11860.0	Demolish W/B Bridge Deck Pier 30-31 (7 beams) > by Crane	5	01-Jun-15	06-Jun-15	23				Deck Pier 30-31 (7 beams)
A11860.01	Demolish W/B Bridge Pier 30	4	06-Jun-15	11-Jun-15	23			Demolish W/B I	3ridge Pier 30
A11860.02	Demolish W/B Bridge Deck Pier 31-32 (7 beams) > by Crane	5	11-Jun-15	17-Jun-15	24				h W/B Bridge Deck Pier 31-3
A11860.03	Demolish W/B Bridge Pier 31	4	17-Jun-15	23-Jun-15	24				Jemolish W/B Bridge Pier 31
A11860.04	Demolish W/B Bridge Deck Pier 32-33 (7 beams) > by Crane	5	23-Jun-15	29-Jun-15	50				Demolish W/B Bridge
A11860.05	Demolish W/B Bridge Pier 32	4	29-Jun-15	04-Jul-15	50				Demolish W/B E
A11860.2	Demolish W/B Bridge Deck Pier 33-34 (7 beams) > by Crane	5	25-Jun-15	02-Jul-15	50			[Demolish W/B Bri
A11860.3	Demolish W/B Bridge Pier 33	4	02-Jul-15	07-Jul-15	50				Demolish W
A11860.4	Excavate + Demolish W/B Bridge Pier 29 > Pile Cap	7	01-Jun-15	09-Jun-15	42			Excavate + Demo	lish W/B Bridge Pier 29 > Pile
A11960	Construct W/B Bridge Pier 29 > Pile Cap	7	09-Jun-15	17-Jun-15	42			Constru	ct W/B Bridge Pier 29 > Pile
A11970	Construct W/B Bridge Pier 29 > Column	10	17-Jun-15	30-Jun-15	42			Constru	Construct W/B Bridc
A11980	Construct W/B Bridge Pier 29 > Rebar Fixing - Crosshead	14	30-Jun-15	17-Jul-15	42				·····
A11980.1	Construct W/B Bridge Pier 29 > Formworks + Concreting - Crosshead	6	17-Jul-15	24-Jul-15	42				
A11990	Construct W/B Bridge Pier 29 > Bearring	5	24-Jul-15	30-Jul-15	42				
A12000	Excavate + Demolish W/B Bridge Pier 30 > Pile Cap	7	11-Jun-15	19-Jun-15	23			Fvoa	ate + Demolish W/R Bridge
A12000	Construct W/B Bridge Pier 30 > Pile Cap	7	19-Jun-15	29-Jun-15	37			Excav	
A12020	Construct W/B Bridge Pier 30 > Column	10	29-Jun-15	11-Jul-15	37				Constru
A12030	Construct W/B Bridge Pier 30 > Rebar Fixing - Crosshead	14	11-Jul-15	28-Jul-15	37				· · · · · · · · · · · · · · · · · · ·
A12040	Construct W/B Bridge Pier 30 > Formworks + Concreting - Crosshead	6	28-Jul-15	04-Aug-15	37				
A12050	Construct W/B Bridge Pier 30 > Bearring	5	04-Aug-15	10-Aug-15	37				
A12070	Excavate + Demolish W/B Bridge Pier 31 > Pile Cap	7	23-Jun-15	02-Jul-15	24				Excavate + Demo
A12080	Construct W/B Bridge Pier 31 > Pile Cap	7	02-Jul-15	10-Jul-15	54				Constru
A12090	Construct W/B Bridge Pier 31 > Column	10	10-Jul-15	22-Jul-15	54				
Remaining L	evel of Effort 🔶 🔶 Milestone		(Contract	HY/2	2009/19			
Actual Level									
Actual Work	3 Mc	onths	Rolling I	Program	(20	May 2015	- 19 A	ug 2015)	
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mplete Al	RI IT	Г П1	2 at	Middle	o Bridao			
	50		2 at	muun	e bridge			
) > by Cr	ane	; 						
-32 (7 be	am	s) >	by C	Crane				
81								
e Deck P	ier	32-3	3 (7	' beam	ns) > by C	rane		
Bridge F	Pier	32						
ridge Deo	ck F	Pier 3	33-3	4 (7 be	eams) > t	by Crane	 !	
N/B Bridg	qe I	Pier (33		· · · · · · · · · · · ·			
ile Cap								
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		oneti	ruct		Bridge Pie		ormwork	
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e Pier 30								
e Pier 30) >		Jap					
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			ons	truct V	V/B Bridg	e Pier 30) > Reba	
				📕 Co	nstruct W			
					Con:	struct W/	B Bridge	Pier 30
					Pile Cap			
uct W/B I	Brid	lge F	vier	31 > P	ile Cap			
	Con	struc	t W	/B Bric	le Cap ge Pier 3	31 > Colu	imn	

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vity ID	Activity Name	Remaining	N	Finish	Total	N.A	June	2015
		Duration	1		Float	May 3 10 1	July 3 05 12	
A12100	Construct W/B Bridge Pier 31 > Rebar Fixing - Crosshead	14	22-Jul-15	07-Aug-15	54		<u>7 24 31 07 14 21 28</u>	
A12110	Construct W/B Bridge Pier 31 > Formworks + Concreting - Crosshead	6	07-Aug-15	14-Aug-15	54			
A12120	Construct W/B Bridge Pier 31 > Bearring	5	14-Aug-15	20-Aug-15	54			
A12130	Excavate + Demolish W/B Bridge Pier 32 > Pile Cap	7	04-Jul-15	13-Jul-15	50			E>
A12140	Construct W/B Bridge Pier 32 > Pile Cap	7	13-Jul-15	21-Jul-15	50			
A12150	Construct W/B Bridge Pier 32 > Column	10	21-Jul-15	01-Aug-15	50			
A12160	Construct W/B Bridge Pier 32 > Rebar Fixing - Crosshead	14	01-Aug-15	18-Aug-15	50			
A12170	Construct W/B Bridge Pier 32 > Formworks + Concreting - Crosshead	6	18-Aug-15	25-Aug-15	50			
A12180	Construct W/B Bridge Pier 32 > Bearring	5	25-Aug-15	31-Aug-15	50			
A12190	Excavate + Demolish W/B Bridge Pier 33 > Pile Cap	7	07-Jul-15	15-Jul-15	50			
A12200	Construct W/B Bridge Pier 33 > Pile Cap	7	15-Jul-15	23-Jul-15	50			
A12210	Construct W/B Bridge Pier 33 > Column	10	23-Jul-15	04-Aug-15	50			
A12220	Construct W/B Bridge Pier 33 > Rebar Fixing - Crosshead	14	04-Aug-15	20-Aug-15	50			
A12230	Construct W/B Bridge Pier 33 > Formworks + Concreting - Crosshead	6	20-Aug-15	27-Aug-15	50			
A12230	Construct W/B Bridge Pier 33 > Bearring	3	20-Aug-15 27-Aug-15	31-Aug-15	50			
A12240	Re-Asemble Crane B at Pier 26-27	8	04-Jun-15	12-Jun-15	0		Re-Asemble Crane B at	Dior 26 27
A12240.1 A12250	Saw Cutting W/B Bridge Deck Pier 27-28	8			0			
		-	04-Jun-15	12-Jun-15	-		Saw Cutting W/B Bridge	
A12260	Demolish W/B Bridge Deck Pier 27-28 (7 beams) > by Crane B	9	13-Jun-15	24-Jun-15	0		Demolish	
A12270	Demolish W/B Bridge Pier 28 > Column > by Crane C	8	25-Jun-15	04-Jul-15	0			Demolish W
A12280	Saw Cutting W/B Bridge Deck Pier 26-27	8	25-Jun-15	04-Jul-15	0			Saw Cutting
A12290	Demolish W/B Bridge Deck Pier 26-27 (7 beams) > by Crane B	9	06-Jul-15	15-Jul-15	0			
A12300	Demolish W/B Bridge Pier 27 > Column > by Crane C	8	16-Jul-15	24-Jul-15	51			
A12310	Saw Cutting W/B Bridge Deck Pier 25-26	8	16-Jul-15	24-Jul-15	0			
A12320	Demolish W/B Bridge Deck Pier 25-26 (7 beams) > by Crane B	9	25-Jul-15	04-Aug-15	0			
A12330	Demolish W/B Bridge Pier 26 > Column > by Crane C	8	05-Aug-15	13-Aug-15	35			
A12340	Saw Cutting W/B Bridge Deck Pier 24-25	8	05-Aug-15	13-Aug-15	0			
A12350	Demolish W/B Bridge Deck Pier 24-25 (7 beams) > by Crane B	9	14-Aug-15	24-Aug-15	0			
A12360	Demolish W/B Bridge Pier 25 > Column > by Crane C	8	25-Aug-15	02-Sep-15	48			
A12370	Saw Cutting W/B Bridge Deck Pier 23-24	8	25-Aug-15	02-Sep-15	0			
A12380	Demolish W/B Bridge Deck Pier 23-24 (7 beams) > by Crane B	9	03-Sep-15	12-Sep-15	0			
A12390	Demolish W/B Bridge Pier 24 > Column > by Crane C	8	14-Sep-15	22-Sep-15	31			
A12400	Saw Cutting W/B Bridge Deck Pier 22-23	8	14-Sep-15	22-Sep-15	0			
A12410	Demolish W/B Bridge Deck Pier 22-23 (7 beams) > by Crane B	9	23-Sep-15	05-Oct-15	0			
A12820	Erection and Testing 2nos T&C Failed > Pier 29-33	0	27-Apr-15 A	06-May-15 A		Erection and Te	sting 2nos T&C Failed > Pier 29-33	
A12820.1	Erection and Testing 2nos T&C > replacement of Failed 2nos T&C> Pier 29-33	0	14-May-15 A	16-May-15 A		Ere	ction and Testing 2nos T&C > replacement of Failed 2r	nos T&C> Pier
A12830	Remove 6th Beam (1nos) By 2 Cranes> Pier 43-44	0	14-May-15 A	14-May-15 A		Remo	ve 6th Beam (1nos) By 2 Cranes> Pier 43-44	
A12850	Remove 6th Beam (2nos) By 2 Cranes > Pier 41-43	0	15-May-15 A	,			ove 6th Beam (2nos) By 2 Cranes > Pier 41-43	
A12860	Remove 6th Beam (2nos) By 2 Cranes > Pier 39-41	1	20-May-15	20-May-15	0		Remove 6th Beam (2nos) By 2 Cranes > Pier 39-41	
A12870	Remove 6th Beam (2nos) By 2 Cranes > Pier 37-39	1	21-May-15	21-May-15	0		Remove 6th Beam (2nos) By 2 Cranes > Pier 37-3	9
A12880	Remove 5th & 6th Beam (5nos) By 2 Cranes > Pier 34-37	2	22-May-15	23-May-15	0		Remove 5th & 6th Beam (5nos) By 2 Cranes > P	
A12940	Move Crane - A to Pier 43-44 to Erect LG-1	1	25-May-15	25-May-15	2		Move Crane - A to Pier 43-44 to Erect LG-1	
A12950	Dismantle & Move Crane - B to Pier 26-27 to Start Demolition of Deck	9	25-May-15	03-Jun-15	0		Dismantle & Move Crane - B to Pie	r 26-27 to Star
A13160	Preparation and Tranport LG1 to 41-44	7	13-May-15 A		0		Preparation and Tranport LG1 to 41-44	
A13160.1	Erect/Assemble LG1 + T&C > Erect Leg Support At Pier 41-44	4	28-May-15	01-Jun-15	0		Erect/Assemble LG1 + T&C > Erect Lu	ea Sunnort At F
A13160.2	Erect/Assemble LG1 + T&C-A > Istall Main Beam/Girder Support - Middle Span at B		02-Jun-15	10-Jun-15	0		Erect/Assemble LG1 + T&C	
A13160.2	Erect/Assemble LG1 + T&C-A > Istall Main Beam/Girder Support - End Span at Bay	8	11-Jun-15	19-Jun-15	0		Erect/Assemble	
A13160.3	Erect/Assemble LG1 + T&C-A > Istall Main Beam/Girder Support - End Span at Bay	8	11-Jun-15	19-Jun-15	0		Erect/Assemble	
		-			-			
A13160.5 A13160.6	Erect/Assemble LG1 + T&C-A > Istall Mounting Support & Cables Erect/Assemble LG1 + T&C-A > Istall Miscellaneous Parts & support	4	22-Jun-15 26-Jun-15	25-Jun-15 30-Jun-15	0			semble LG1 +
				0 1 1	111/16			
	g Level of Effort Milestone			Contract	HY/2	2009/19		
	vel of Effort		_ ·	_				
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Remaining	g Work		-					
	emaining Work							

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				Constru	uct W/B	Bridge Pi
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cavate + D	omolish V	V/B Brid	ao Pior	32 > Dila		
	nstruct W					
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Excavate +	Demolish	W/BB	ridae P	ier 33 > I	Pile Cap	
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k Pier 27-2	8 (7 hear	ns) > hy	Crane			
	•					
8 Bridge Pie			by Cra	ne C		
V/B Bridge						
Demolish V	V/B Bridg	e Deck	Pier 26	-27 (7 be	eams) > l	by Crane
	Demolish	W/B Br	idge Pi	er 27 > C	olumn >	• by Cran
	Saw Cutt	ing W/E	Bridge	Deck Pi	er 25-26	;
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9-33						
Demolition	of Deck					
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er 41-44						
Beam/Gird	er Suppo	rt - Mido	lle Spa	n at Bay	42 - 43	
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ctivity ID	Activity Name	temainin Start	Start Finish						2015
		Duration			Float	May 3 10 1	7 24	June 31 07 14 21	July 28 05 12
A13160.7	Demolish W/B Bridge Deck Pier 43 to 44 (5 beams) > by LG1	6	02-Jul-15	08-Jul-15	0				Demolish V
A13650	Demolish Temp. W/B Bridge - Deck > Pier 42 to 43 (6 beams)	6	09-Jul-15	15-Jul-15	0				De
A13660	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 43	14	16-Jul-15	31-Jul-15	0				
A13670	Demolish Temp. W/B Bridge - Deck > Pier 41 to 42 (6 beams)	6	25-Jul-15	31-Jul-15	0				
A13680	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 42	6	01-Aug-15	07-Aug-15	0				
A13690	Demolish Temp. W/B Bridge - Deck > Pier 40 to 41 (6 beams)	6	01-Aug-15	07-Aug-15	0				
A13700	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 41	14	08-Aug-15	24-Aug-15	0				
A13710	Demolish Temp. W/B Bridge - Deck > Pier 39 to 40 (6 beams)	6	18-Aug-15	24-Aug-15	0				
A13720	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 40	6	25-Aug-15	31-Aug-15	0				
A13730	Demolish Temp. W/B Bridge - Deck > Pier 38 to 39 (6 beams)	6	25-Aug-15 25-Aug-15	31-Aug-15	0				
A13730 A8079.1		0	23-Aug-15 23-Apr-15 A	30-Apr-15 A	0	0 Front Followia	k at aviating	g W/B Bridge prior to demolition	
	Pier 28 Erect Falsework at existing W/B Bridge prior to demolition	-	· ·	· ·					
A8079.11	Pier 29 Erect Falsework at existing W/B Bridge prior to demolition	0	30-Mar-15 A	09-Apr-15 A		ing W/B Bridge p	rior to dem	Olition	
A8079.12	Pier 30 Erect Falsework at existing W/B Bridge prior to demolition	0		07-Mar-15 A					
A8079.14	Pier 32 Erect Falsework at existing W/B Bridge prior to demolition	0		27-Apr-15 A		rect Falsework a	existing W	/B Bridge prior to demolition	
A8079.15	Pier 33 Erect Falsework at existing W/B Bridge prior to demolition	0	11-Mar-15 A	· ·		ridge prior to de			
A8079.16	Pier 34 Erect Falsework at existing W/B Bridge prior to demolition	0	11-Apr-15 A	13-Apr-15 A		existing W/B Bri	lge prior to	demolition	
A8079.18	Pier 27 Erect Falsework at existing W/B Bridge prior to demolition	0	09-Mar-15 A	16-Mar-15 A		lition			
A8079.19	Pier 26 Erect Falsework at existing W/B Bridge prior to demolition	0	04-Mar-15 A	09-Mar-15 A					
A8079.2	Pier 25 Erect Falsework at existing W/B Bridge prior to demolition	6	20-May-15	26-May-15	39		F	Pier 25 Erect Falsework at existing W/B	Bridge prior to demolitio
A8079.21	Pier 24 Erect Falsework at existing W/B Bridge prior to demolition	6	26-May-15	01-Jun-15	39			Pier 24 Erect Falsework at existi	ng W/B Bridge prior to d
A8079.22	Pier 23 Erect Falsework at existing W/B Bridge prior to demolition	6	01-Jun-15	06-Jun-15	39			Pier 23 Erect Falsework a	t existing W/B Bridge prio
A8079.3	Pier 22 Erect Falsework at existing W/B Bridge prior to demolition	6	06-Jun-15	12-Jun-15	85			Pier 22 Erect False	work at existing W/B Bri
10.4.2 - Existing				1					
A12660.1	Demolition (Pier E4 - Pier E3) - Mobilization and Prep.	3	29-Jun-15	02-Jul-15	16				Demolition (Pier E
A12660.2	Demolition (Pier E4 - Pier E3) - Saw-Cut Deck/Slab	7	03-Jul-15	10-Jul-15	16			· · · · · · · · · · · · · · · · · · ·	Demolitio
A12660.3	Demolition (Pier E4 - Pier E3) -Remove Pre-Cast Beam (3nos)	6	11-Jul-15	17-Jul-15	16				
A12660.4	Demolition (Pier E4 - Pier 20) -Saw-Cut Crosshead + Pier(Pier E3)	1	18-Jul-15	18-Jul-15	16				
A12660.5	Demolition (Pier E4 - Pier 20) -Demolish Pile Cap + Pile Trimming(Pier E3)	8	20-Jul-15	28-Jul-15	16				
A12000.5		-			0				Domoli
	Demolition (TA1 & Pier E4 - Pier E3) > Preparation for Demolition/Saw Cutting, Etc.	11	29-Jun-15	11-Jul-15	-				Demoli
A12660.7	Demolition (Pier E4 - Pier E3) > Remove 6 Beams, Crosshead & Pier A3	12	13-Jul-15	25-Jul-15	0				
A12660.8	Demolition (Pier E4 - Pier E3) > Remove Pile Cap Pier A3	10	27-Jul-15	06-Aug-15	0				
A12660.9	Demolition (TA1) > Deck & Steel Tower Removal	14	01-Aug-15	17-Aug-15	18				
A12670	Construction (Pier E4 - Pier E2) > Construct Pile Cap at Pier E3	10	07-Aug-15	18-Aug-15	0				
A12680	Construction (Pier E4 - Pier E2) > Construct Pier E3	10	19-Aug-15	29-Aug-15	0				
A12770	Construction (Pier E4 - Pier E2) > Construct Parapet D1-E2	10	18-Aug-15	28-Aug-15	53				
10.5 - Temporal									
10.5.1 - Tempor	ary Bridge 'TA'								
1051-2036	Temporary Bridge TA1 Removal	16	29-Jul-15	15-Aug-15	16				
A10750	TA2-(Pier TA21-22) > Intall Bearing	0	19-Mar-15 A	09-Apr-15 A		ring			
A10760	TA2-(Pier TA21-22) > Parapet Removal @ Bridge E	0	25-Mar-15 A	30-Mar-15 A		Bridge E			
A10770	TA2-(Pier TA21-22) > Main Beam Fabrication (TA21-22) > Batch 1	0	31-Mar-15 A	08-Apr-15 A		h Fabrication (TA	21-22) > Ba	atch 1	
A10780	TA2-(Pier TA21-22) > Main Beam Erection > Batch 1	0	10-Apr-15 A	10-Apr-15 A		am Erection > Ba	tch 1		
A10790	TA2-(Pier TA21-22) > Main Beam Fabrication (TA21-22) > Batch 2	0	11-Apr-15 A	17-Apr-15 A		Main Beam Fab	rication (TA	21-22) > Batch 2	
A10800	TA2-(Pier TA21-22) > Main Beam Erection > Batch 2	0	17-Apr-15 A	18-Apr-15 A		> Main Beam Er			
A10810	TA2-(Pier TA21-22) > Intall Bondeck	0	18-Apr-15 A	· ·		21-22) > Intall Bo			
A10820	TA2-(Pier TA21-22) > Deck Rebar Fixing	0		11-May-15 A				> Deck Rebar Fixing	
		-	· ·					> Intall Holding Down Bolts for L3 Raili	
A10830	TA2-(Pier TA21-22) > Intall Holding Down Bolts for L3 Railings	0	-	11-May-15 A		IAZ-(Ple			11yə
A10840	TA2-(Pier TA21-22) > Deck Concreting	1	20-May-15	20-May-15	28			er TA21-22) > Deck Concreting	
A10850	TA2-(Pier TA21-22) > Intall L3 Railings	3	21-May-15	23-May-15	28		🔲 TA2-	(Pier TA21-22) > Intall L3 Railings	
Remaining	Level of Effort Milestone			Contract		2000/10			
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		nth -			100	May 2045	40.4	\ua 2015\	
Actual Worl		JIIIIS	Rolling	rogram	(20	way 2015) - 19 A	Aug 2015)	
Remaining									
Critical Ren	naining Work								

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			Au	gust		mber
19	26	02	09	16	23	30
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W/B Bridg	e Deck	Pier 43	to 44 (5 b	eams)	> by LG	1
Demolish Te	emp. w	IR BLID	де - Deck	> Pier	42 to 43	(6 beams
		Domolia	sh Tomp		ridao (Crosshead
		Demois	si iemp.		nuye - v	JUSSILEAU
		Demolis	sh Temp	W/R B	ridae - I	Deck > Pie
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	& Pier I	E4 - Pier	(Pier E4 E3) > Pr	eparati	on for D	emolition/
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ty ID	Activity Name	temainin Duration	Start	Finish	Total Float	Мау	2015 June J
A10860			19-May-15 A	21 May 15	0		17 24 31 07 14 21 28 05 12 ■ TA2-(Pier TA22-23) > Install TA23 Tower
A10860 A10870	TA2-(Pier TA22-23) > Install TA23 Tower	2	,	,	-		
A10870	TA2-(Pier TA22-23) > Intall Scaffolding at TA23 TA2-(Pier TA22-23) > TA23 Grouting	3	22-May-15 26-May-15	25-May-15 28-May-15	0		TA2-(Pier TA22-23) > Intall Scaffolding at TA23 TA2-(Pier TA22-23) > TA23 Grouting
A10880	TA2-(Pier TA22-23) > TA23 Grouning TA2-(Pier TA22-23) > Intall Bearing	3	20-May-15 29-May-15	02-Jun-15	0		
A10090	TA2-(Pier TA22-23) > Main Beam Fabrication (TA22	2-23) 6	29-May-15 22-May-15	28-May-15	5		TA2-(Pier TA2-23) > Intall Bearing TA2-(Pier TA22-23) > Main Beam Fabrication (TA22-23)
A10900	TA2-(Pier TA22-23) > Main Beam Frection	-23) 0	03-Jun-15	03-Jun-15	0		TA2-(Pier TA22-23) > Main Beam Fraction (1722-23)
A10910	TA2-(Pier TA22-23) > Install Bondeck	6	03-Jun-15	10-Jun-15	0		``````````````````````````````````````
A10920	TA2-(Pier TA22-23) > Deck Rebar Fixing	6	11-Jun-15	17-Jun-15	0		TA2-(Pier TA22-23) > Install Bondeck TA2-(Pier TA22-23) > Deck Reb
A10940	TA2-(Pier TA22-23) > Holding Down Bolts for L3 Ra		17-Jun-15	18-Jun-15	0		TA2-(Pier TA22-23) > Holding E
A10950	TA2-(Pier TA22-23) > Deck Concreting	1	19-Jun-15	19-Jun-15	0		TA2-(Pier TA22-23) > Deck Co
A10950.1	MJ-28	3	22-Jun-15	24-Jun-15	0		MJ-28
A10960	TA2-(Pier TA22-23) > L3 Railings	3	22-Jun-15	24-Jun-15	2		TA2-(Pier TA22-23) > L3
A10960.1	Aspaht TA21-TA28	1	25-Jun-15	25-Jun-15	0		Aspaht TA21-TA28
A10960.2	Road Marking + Istall Lightings	1	26-Jun-15	26-Jun-15	0		Road Marking + Istall
A11210	TA2-(Pier TA23-24) > Install TA24 Tower	0		13-May-15 A		TA2-(F	Pier TA23-24) > Install TA24 Tower
A11220	TA2-(Pier TA23-24) > Intall Scaffolding at TA24	0	12-May-15 A				Pier TA23-24) > Intall Scaffolding at TA24
A11220	TA2-(Pier TA23-24) > TA24 Grouting	3	22-May-15	26-May-15	3	□ 17~ <u>~</u> -(1	TA2-(Pier TA23-24) > TA24 Grouting
A11230	TA2-(Pier TA23-24) > Intall Bearing		26-May-15	30-May-15	3		TA2-(Pier TA23-24) > Intall Bearing
A11250	TA2-(Pier TA23-24) > Main Beam Fabrication (TA23	3-24) 6	22-May-15	29-May-15	5		TA2-(Pier TA23-24) > Main Beam Fabrication (TA23-24)
A11250	TA2-(Pier TA23-24) > Main Beam Frection		03-Jun-15	03-Jun-15	0		TA2-(Pier TA23-24) > Main Beam Erection
A11200	TA2-(Pier TA23-24) > Install Bondeck	6	03-Jun-15	10-Jun-15	0		TA2-(Fiel TA2-924) > Main Dealth Election TA2-(Pier TA23-24) > Install Bondeck
A11270	TA2-(Pier TA23-24) > Deck Rebar Fixing	6	11-Jun-15	17-Jun-15	0		
A11200	TA2-(Pier TA23-24) > Holding Down Bolts for L3 Ra		17-Jun-15	17-Jun-15 18-Jun-15	0		TA2-(Pier TA23-24) > Deck Reb
A11290		inings 2		19-Jun-15	0		· · · · · · · · · · · · · · · · · · ·
A11300	TA2-(Pier TA23-24) > Deck Concreting MJ-28	3	19-Jun-15 22-Jun-15	24-Jun-15	0		I TA2-(Pier TA23-24) > Deck C MJ-28
A11300.1		3	22-Jun-15 22-Jun-15	24-Jun-15 24-Jun-15	2		TA2-(Pier TA23-24) > L
	TA2-(Pier TA23-24) > L3 Railings	3					
A11310.1	Aspaht TA21-TA28		25-Jun-15	25-Jun-15	0		Aspaht TA21-TA28
A11310.2	Road Marking + Istall Lightings	1	26-Jun-15	26-Jun-15	0	D5 Terrer	Road Marking + Istall
A11320	TA2-(Pier TA24-25) > Install TA25 Tower	0	07-Apr-15 A	09-Apr-15 A		25 Tower	
A11330	TA2-(Pier TA24-25) > Intall Scaffolding at TA25	0	23-Apr-15 A	25-Apr-15 A			caffolding at TA25
A11340	TA2-(Pier TA24-25) > TA25 Grouting	0	23-Apr-15 A	· ·		TA24-25) > TA25	
A11350	TA2-(Pier TA24-25) > Intall Bearing	0	23-Apr-15 A	•		TA24-25) > Intall	
A11360	TA2-(Pier TA24-25) > Main Beam Fabrication (TA24	4-25) 6	23-Apr-15 A	26-May-15	7		TA2-(Pier TA24-25) > Main Beam Fabrication (TA24-25)
A11370	TA2-(Pier TA24-25) > Main Beam Erection	1	30-May-15	01-Jun-15	3		TA2-(Pier TA24-25) > Main Beam Erection
A11380	TA2-(Pier TA24-25) > Install Bondeck	6	01-Jun-15	08-Jun-15	3		TA2-(Pier TA24-25) > Install Bondeck
A11390	TA2-(Pier TA24-25) > Deck Rebar Fixing	6	08-Jun-15	15-Jun-15	3		TA2-(Pier TA24-25) > Deck Rebar
A11400	TA2-(Pier TA24-25) > Holding Down Bolts for L3 Ra	ilings 2	13-Jun-15	16-Jun-15	3		TA2-(Pier TA24-25) > Holding Do
A11410	TA2-(Pier TA24-25) > Deck Concreting	1	16-Jun-15	17-Jun-15	3		TA2-(Pier TA24-25) > Deck Con
A11410.1	MJ-28	3	17-Jun-15	22-Jun-15	3		MJ-28
A11420	TA2-(Pier TA24-25) > L3 Railings	3	17-Jun-15	22-Jun-15	5		TA2-(Pier TA24-25) > L3 R
A11420.0	Aspaht TA21-TA28	1	22-Jun-15	23-Jun-15	3		Aspaht TA21-TA28
A11420.01	Road Marking + Istall Lightings	1	23-Jun-15	24-Jun-15	3		Road Marking + Istall Lig
A11430	TA2-(Pier TA25-26) > Install TA26 Tower	0	03-Apr-15 A	05-Apr-15 A		ower	
A11440	TA2-(Pier TA25-26) > Intall Scaffolding at TA26	0	20-Apr-15 A	22-Apr-15 A		-26) > Intall Scaf	
A11450	TA2-(Pier TA25-26) > TA26 Grouting	0	20-Apr-15 A	22-Apr-15 A		-26) > TA26 Gro	
A11460	TA2-(Pier TA25-26) > Intall Bearing	0	23-Apr-15 A	26-Apr-15 A		TA25-26) > Intall	Bearing
A11470	TA2-(Pier TA25-26) > Main Beam Fabrication (TA2	5-26) 0	23-Apr-15 A	02-May-15 A		2-(Pier TA25-26)	> Main Beam Fabrication (TA25-26)
A11480	TA2-(Pier TA25-26) > Main Beam Erection	0	01-May-15 A	03-May-15 A		12-(Pier TA25-26) > Main Beam Erection
A11490	TA2-(Pier TA25-26) > Install Bondeck	6	30-Apr-15 A	29-May-15	11		TA2-(Pier TA25-26) > Install Bondeck
Remaining	Level of Effort Milestone			Contract	HV	2000/10	
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Actual Leve		2 Montho	Dolling I	Drogram	(20	May 2015	5 - 19 Aug 2015)
Remaining		3 WORTHS	Ronng	rogram	(20	way 2015	5 - 19 Aug 2015)
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/ ID	Activity Name	temainin Duration	Start	Finish	Total Float	May		2015 July
A11500	TA2-(Pier TA25-26) > Deck Rebar Fixing	6	29-May-15	05-Jun-15	11	3 10 17	7 24 31 07 14 21 TA2-(Pier TA25-26) > D	28 05 12 eck Rebar Eixing
A11510	TA2-(Pier TA25-26) > Holding Down Bolts for L3 Railings	2	04-Jun-15	06-Jun-15	11			Holding Down Bolts for L3 R
A11520	TA2-(Pier TA25-26) > Deck Concreting	1	06-Jun-15	08-Jun-15	11		TA2-(Pier TA25-26)	
A11520.1	MJ-28	3	08-Jun-15	11-Jun-15	11		□ MJ-28	
A11530	TA2-(Pier TA25-26) > L3 Railings	3	08-Jun-15	11-Jun-15	13		TA2-(Pier TA25-2	26) > I 3 Railings
A11530.1	Aspaht TA21-TA28	1	11-Jun-15	12-Jun-15	10		Aspaht TA21-T/	
A11530.2	Road Marking + Istall Lightings	1	12-Jun-15	13-Jun-15	11		Road Marking	
A11540	TA2-(Pier TA26-27) > Install TA27 Tower	0	25-Mar-15 A	27-Mar-15 A				
A11550	TA2-(Pier TA26-27) > Intall Scaffolding at TA27	0	17-Apr-15 A	19-Apr-15 A) > Intall Scaffoldin	a at TA27	
A11560	TA2-(Pier TA26-27) > TA27 Grouting	0	17-Apr-15 A	19-Apr-15 A) > TA27 Grouting	9 (1 / 2 /	
A11570	TA2-(Pier TA26-27) > Intall Bearing	0	20-Apr-15 A	23-Apr-15 A		26-27) > Intall Bea	ring	
A11580	TA2-(Pier TA26-27) > Main Beam Fabrication (TA26-27)	0	21-Apr-15 A	29-Apr-15 A			ain Beam Fabrication (TA26-27)	
A11590	TA2-(Pier TA26-27) > Main Beam Frection $TA2-(Pier TA26-27)$	0	01-May-15 A	03-May-15 A			> Main Beam Erection	
A11600	TA2-(Pier TA26-27) > Install Bondeck	0	02-May-15 A	09-May-15 A			A26-27) > Install Bondeck	
A11610	TA2-(Pier TA26-27) > Deck Rebar Fixing	6	12-May-15 A	26-May-15 A	24	IAZ-(FIELIA	TA2-(Pier TA26-27) > Deck Rebar F	ivina
A11620	TA2-(Pier TA26-27) > Holding Down Bolts for L3 Railings	2		20-May-15 21-May-15	24			
		Z	20-May-15				TA2-(Pier TA26-27) > Holding Down Bolts	IUI LJ RAIIIIYS
A11630 A11630.1	TA2-(Pier TA26-27) > Deck Concreting MJ-28	1	22-May-15	22-May-15	24 24		TA2-(Pier TA26-27) > Deck Concreting MJ-28	
			23-May-15	26-May-15				
A11640	TA2-(Pier TA26-27) > L3 Railings	3	23-May-15	26-May-15	26		TA2-(Pier TA26-27) > L3 Railings	
A11640.0	Aspaht TA21-TA28	1	27-May-15	27-May-15	24		Aspaht TA21-TA28	
A11640.01	Road Marking + Istall Lightings	1	28-May-15	28-May-15	24		Road Marking + Istall Lightings	
A11640.1	TA2-(Pier TA27-28) > Preparation works for R.C Wall	0	16-Apr-15 A	18-Apr-15 A		> Preparation wor		
A11640.2	TA2-(Pier TA27-28) > Rebar Fixing on R.C Wall	0	19-Apr-15 A	01-May-15 A			Rebar Fixing on R.C Wall	
A11640.3	TA2-(Pier TA27-28) > Formawork on R.C Wall	0	02-May-15 A	08-May-15 A			27-28) > Formawork on R.C Wall	
A11640.4	TA2-(Pier TA27-28) > Concreting on R.C Wall	0	09-May-15 A	09-May-15 A			27-28) > Concreting on R.C Wall	
A11640.5	TA2-(Pier TA27-28) > Waterproofing for Tunnel Roof	2	20-May-15	21-May-15	1		TA2-(Pier TA27-28) > Waterproofing for T	
A11640.6	TA2-(Pier TA27-28) > Soil Backfill to Ground Level	5	20-May-15	25-May-15	1		TA2-(Pier TA27-28) > Soil Backfill to C	Ground Level
A11640.7	TA2-(Pier TA27-28) > Formwork on TA28 Footing	2	20-May-15	21-May-15	1		TA2-(Pier TA27-28) > Formwork on TA28	Footing
A11640.8	TA2-(Pier TA27-28) > Rebar Fixing on TA28 Footing	2	20-May-15	21-May-15	1	 	TA2-(Pier TA27-28) > Rebar Fixing on TA2	28 Footing
A11640.9	TA2-(Pier TA27-28) > Install Holding Down Bolts on TA28	1	22-May-15	22-May-15	1		TA2-(Pier TA27-28) > Install Holding Dow	n Bolts on TA28
A11640.91	TA2-(Pier TA27-28) > Concreting on TA28	1	23-May-15	23-May-15	1		TA2-(Pier TA27-28) > Concreting on TA	28
A11650	TA2-(Pier TA27-28) > Installation of TA28 Tower	1	25-May-15	25-May-15	1		TA2-(Pier TA27-28) > Installation of T	A28 Tower
A11660	TA2-(Pier TA27-28) > Intall Scaffolding at TA28	3	26-May-15	28-May-15	1		TA2-(Pier TA27-28) > Intall Scaffc	olding at TA28
A11670	TA2-(Pier TA27-28) > TA28 Grouting	1	29-May-15	29-May-15	1		TA2-(Pier TA27-28) > TA28 Gro	uting
A11680	TA2-(Pier TA27-28) > Intall Bearing	2	30-May-15	01-Jun-15	1		TA2-(Pier TA27-28) > Intall B	Bearing
A11690	TA2-(Pier TA27-28) > Main Beam Fabrication (TA27-28)	6	26-May-15	01-Jun-15	2		TA2-(Pier TA27-28) > Main E	Beam Fabrication (TA27-28)
A11700	TA2-(Pier TA27-28) > Main Beam Erection	1	02-Jun-15	02-Jun-15	1		TA2-(Pier TA27-28) > Main	Beam Erection
A11710	TA2-(Pier TA27-28) > Install Bondeck	4	03-Jun-15	06-Jun-15	1		TA2-(Pier TA27-28) >	Install Bondeck
A11720	TA2-(Pier TA27-28) > Deck Rebar Fixing	9	08-Jun-15	17-Jun-15	1		TA2-(Pie	r TA27-28) > Deck Rebar F
A11730	TA2-(Pier TA27-28) > Holding Down Bolts for L3 Railings	2	16-Jun-15	17-Jun-15	1		TA2-(Pie	r TA27-28) > Holding Down
A11740	TA2-(Pier TA27-28) > Deck Concreting	1	18-Jun-15	18-Jun-15	1		TA2-(Pi	er TA27-28) > Deck Concre
A11740.1	MJ-28	3	19-Jun-15	23-Jun-15	1		M	
A11750	TA2-(Pier TA27-28) > L3 Railings	3	19-Jun-15	23-Jun-15	3	·····	Τ.	A2-(Pier TA27-28) > L3 Rail
A11750.3	Aspaht TA21-TA28	1	24-Jun-15	24-Jun-15	1			Aspaht TA21-TA28
A11750.4	Road Marking + Istall Lightings	1	25-Jun-15	25-Jun-15	1			Road Marking + Istall Lighti
A11760	Complete Temporary "TA2" Bridge	0		26-Jun-15	0			Complete Temporary "TA
	rary Bridge 'TB'			20 0011 10			`	
A10280	TB > (Pier 16-17) - Stitching	0	02-Mar-15 A	02-Mar-15 A				
A10290	TB > (Pier TB1-16) - L3 Railing Installation	0		06-Mar-15 A				
	Level of Effort Milestone	-		Contract		2000/10		
Actual Lev				Jonnaul	/ / 4	2003/13		
Actual Wo		3 Monthe	Rolling	Drouram	(20	May 2015	- 19 Aug 2015)	
Remaining				rogram	1 20	may 2013	10 Aug 2010j	

8) Fixing n Bolts for L3 Railings	mber 30
8) Fixing n Bolts for L3 Railings	
Fixing n Bolts for L3 Railings	
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rA2" Bridge	

Page 12 of 14

ity ID	Activity Name	lemainin Duration		Finish	Total Float		May				June			2015	Jul
						3 10	_ (´ 1	7 24	31	07	7 14	21	28	05	12
A10300	Bridge E (Pier 16) - MJ	0		22-Mar-15 A											
A2480	TB > (Pier TB1-16) - L3 Railing Installation	0	06-Mar-15 A	09-Mar-15 A											
0.6 - Tunnel App															
	h Ramp (Excluding Portion IIB)														
Bored Piles	Dened Die Dener DNOS	0	40 E-h 45 A												
A5851	Bored Pile Ramp - BN25	0	10-Feb-15A												
A5856	Bored Pile Ramp > LHR- BN32 A	0	24-Mar-15 A	•		32 A									
A5856.1	Bored Pile Ramp > LHR- BN32 B	0		31-Mar-15 A											
A5857	Bored Pile Ramp > LHR - BN34 A	0	19-Mar-15 A	· ·		84 A									
A5857.1	Bored Pile Ramp > LHR - BN34 B	0	17-Mar-15 A												
A5859.21	Bored Pile Ramp - BN20	0		11-Mar-15 A											
A5859.22	Bored Pile Ramp - BN21	0	13-Mar-15 A												
A5859.24	Bored Pile Ramp - BS21	0	26-Feb-15 A	14-Mar-15 A											
A5859.35	LHR - Pre Bored H-Pile > Pile Ramp - BN17 A	0	15-Apr-15 A	27-Apr-15 A		e Bored H LHR - Pre	-Pile >	Pile Ramp	- BN17 A	\ 					
A5859.35.1	LHR - Pre Bored H-Pile > Pile Ramp - BN17 B	0	17-Apr-15 A	05-May-15 A		LHR - Pre	e Bore	H-Pile > F	Pile Ramp	5 - BN1	7 В 				
A5859.36	LHR - Pre Bored H-Pile > Pile Ramp - BN18 A	0	18-Apr-15 A	25-Apr-15 A		Bored H-Pi									
A5859.36.1	LHR - Pre Bored H-Pile > Pile Ramp - BN18 B	0	22-Apr-15 A	02-May-15 A		R - Pre Bo	ored H	Pile > Pile	Ramp - E	3N18 B	- Pre Bore				
A5859.36.1.1	LHR - Pre Bored H-Pile > Pile Ramp - BN14 A	14	20-May-15	04-Jun-15	48										
A5859.36.1.2	LHR - Pre Bored H-Pile > Pile Ramp - BN14 B	14	25-May-15	09-Jun-15	48						LHR - Pre	Bored H	I-Pile > P	ile Ramp	- BN1
A5859.36.1.3	LHR - Pre Bored H-Pile > Pile Ramp - BN15 A	14	30-Jun-15*	16-Jul-15	32										
A5859.36.1.4	LHR - Pre Bored H-Pile > Pile Ramp - BN15 B	14	06-Jul-15	21-Jul-15	32										
A5859.36.2	LHR - Pre Bored H-Pile > Pile Ramp - BN16 A	14	10-Jul-15	25-Jul-15	32										
A5859.36.3	LHR - Pre Bored H-Pile > Pile Ramp - BN16 B	14	15-Jul-15	30-Jul-15	32										
A5859.36.4	Pre Bored H-Pile > Pile Ramp - BM07 A	14	20-Jul-15	04-Aug-15	32										
A5859.36.5	Pre Bored H-Pile > Pile Ramp - BM07 B	14	24-Jul-15	08-Aug-15	32										
A5859.36.6	Pre Bored H-Pile > Pile Ramp - BM08 A	14	29-Jul-15	13-Aug-15	32										
A5859.36.7	Pre Bored H-Pile > Pile Ramp - BM08 B	14	03-Aug-15	18-Aug-15	32										
A5859.36.8	Pre Bored H-Pile > Pile Ramp - BM06 A	14	07-Aug-15	22-Aug-15	32										
A5859.36.9	Pre Bored H-Pile > Pile Ramp - BM06 B	14	12-Aug-15	27-Aug-15	32										
A5859.36.9.1	Pre Bored H-Pile > Pile Ramp - BM05 A	14	17-Aug-15	01-Sep-15	32										
A5859.36.9.2	Pre Bored H-Pile > Pile Ramp - BM05 B	14	21-Aug-15	05-Sep-15	32										
A5859.36.9.3	Pre Bored H-Pile > Pile Ramp - BM04 A	14	26-Aug-15	10-Sep-15	32										
A5859.36.9.4	Pre Bored H-Pile > Pile Ramp - BM04 B	14	31-Aug-15	15-Sep-15	32										
A5859.36.9.9	Pre Bored H-Pile > Pile Ramp - BS16 A	14	14-Sep-15	30-Sep-15	32										
A5859.36.9.9.1	Pre Bored H-Pile > Pile Ramp - BS16 B	14	18-Sep-15	06-Oct-15	32										
A5859.36.9.9.2	Pre Bored H-Pile > Pile Ramp- BS15 A	14	23-Sep-15	10-Oct-15	32										
A5859.36.9.9.3	Pre Bored H-Pile > Pile Ramp - BS15 B	14	29-Sep-15	15-Oct-15	32										
A5859.36.9.9.4	Pre Bored H-Pile > Pile Ramp - BS14 A	14	05-Oct-15	20-Oct-15	32										
A5859.36.9.9.5	Pre Bored H-Pile > Pile Ramp - BS14 B	14	09-Oct-15	26-Oct-15	32										
A5859.37	Complete Bored Piles Excl.Portion IIB	0		26-Oct-15	32										
A5859.37.1	Complete Bored Piles > LHR	0		30-Jul-15	104										
A8050	Complete Pre-Bored H-Pile > CSD Approach Ramp	0		20-May-15	44			Complet	te Pre-Bo	ored H-I	Pile > CSD	Approac	n Ramp		
ELS		·													
1061-1065	Drive Sheet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D11-D12 Northern	า 14	20-May-15	04-Jun-15	251					Drive	Sheet Pile	for Troug	gh A & B	(excl IIE	;) - Ap
1061-1065.2	Drive Sheet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D11-D10 Northern	ו 14	05-Jun-15	22-Jun-15	251							Dri	ve Shee	t Pile for	Trough
1061-1065.3	Drive Sheet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D10-D09 Norther	· 14	23-Jun-15	09-Jul-15	251										Drive
1061-1065.4	Drive Sheet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D09-D08 Norther	· 14	10-Jul-15	25-Jul-15	251	1									
1061-1065.5	Drive Sheet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D08-D07 Norther	· 14	27-Jul-15	11-Aug-15	251	1									
1061-1065.6	Drive Sheet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D07-D06 Norther	- 14	12-Aug-15	27-Aug-15	251										
Remaining Le	evel of Effort 🔶 🔶 Milestone			Contract	HY/2	2009/1	9								
Actual Level	of Effort			-											
Actual Work	3 M	onths	Rollina I	Program	(20	Mav 2	2015	- 19	Aua 2	2015	5)				
Remaining W				3. a.m	、•						,				
Critical Rema															

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/	26	02	Au 09	gust 16	23	mber 30
	_•					
В						
LHR - Pr						
LH	R - Pre E	Bored H-	Pile > Pil	e Ramp	- BN15 E	;
	LHR -	Pre Bore	ed H-Pile	> Pile R	amp - BN	116 A
		HR - Pr	e Bored	H-Pile >	Pile Ram	ip - BN1
		Pre	e Bored I	H-Pile > I	Pile Ram le > Pile	p - BM0
			Pre Bo	red H-Pi	le > Pile	Ramp -
				Pre Bore	d H-Pile	> Pile R
				Pre	e Bored I	
					Pre Bo	
					<u></u> <u>-</u> <u>-</u>	Pre Bore
						Pr
	• (Complete	e Bored I	Piles > LH	IR	
r. Ramp >	Pier D11	-D12 No	orthern S	ide		
A&B (exc					0 Northe	rn Side
heet Pile fo						
					B (excl II	
					t Pile for	
						Drive Sh
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	Pag	e 13 of	14			

tivity ID	Activity Name	Remaining		Finish	Total	Max	2015
		Duration			Float	May 3 10 1	June July 17 24 31 07 14 21 28 05 12
1061-1065.6.1	Drive Sheet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D11-D12 Southerr	14	20-May-15	04-Jun-15	251		Drive Sheet Pile for Trough A & B (exd IIB) - Appr
1061-1065.6.2	Drive Sheet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D11-D10 Southerr	14	05-Jun-15	22-Jun-15	251		Drive Sheet Pile for Trough A
1061-1065.6.3	Drive Sheet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D10-D09 Southerr	14	23-Jun-15	09-Jul-15	251		Drive S
1061-1065.6.4	Drive Sheet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D09-D08 Southerr	14	10-Jul-15	25-Jul-15	251		
1061-1065.6.5	Drive Sheet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D08-D07 Southerr	14	27-Jul-15	11-Aug-15	251		
1061-1065.6.6	Drive Sheet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D07-D06 Southerr	14	12-Aug-15	27-Aug-15	251		
1061-1068	Install & Operate Dewatering System (excl IIB) - Appr. Ramp > Pier D06-D08	14	27-May-15	11-Jun-15	287		Install & Operate Dewatering System (exc
1061-1068.1	Install & Operate Dewatering System (excl IIB) - Appr. Ramp > Pier D08-D10	14	12-Jun-15	29-Jun-15	287		Install & Operate D
1061-1068.2	Install & Operate Dewatering System (excl IIB) - Appr. Ramp > Pier D10-D12	14	30-Jun-15	16-Jul-15	287		
Structure							
1061-1200	Construct Retaining Wall E Pile Cap (7 nos)	28	03-Jun-15	07-Jul-15	32		Construct
1061-1210	Construct Retaining Wall E Bay 1	18	08-Jul-15	28-Jul-15	32		
1061-1230	Construct Retaining Wall E Bay 3	18	08-Jul-15	28-Jul-15	50		
Landscape Dec							
A8260	Construct LD Middle Pile Cap (7nos)	24	08-Jul-15	04-Aug-15	44		
10.6.2 - Approac	h Ramp (Within Portion IIB)		J	_			
Bored Piles							
1061-1045	LHR - Pre Bored H-Pile > Pile Ramp - BN01 A	14	26-Aug-16	12-Sep-16	221		
1061-1046	LHR - Pre Bored H-Pile > Pile Ramp - BN01 B	14	12-Sep-16	29-Sep-16	221		
1061-1047	LHR - Pre Bored H-Pile > Pile Ramp - BN05 A	14	29-Sep-16	18-Oct-16	221		
10.7 - Section X	- Miscellaneous Works						
10.7.1 - TTM Sta							
1071-1025	TTM Stage 2 - TMLG / TD / Police Consultation and Endorsement	0	29-Sep-14 A	27-Mar-15 A		and Endorseme	nt
1071-1030	TTM Stage 2 - TTM Enabling Works	0	27-Mar-15 A	29-Mar-15 A			
1071-1040	TTM Stage 2 - Divert 3 Lanes to E/B Bridge through 'Bridge From Pier17 to Pier D1'	0		29-Mar-15 A		hrough 'Bridge F	rom Pier17 to Pier D1'
1071-1041	TTM Stage 3 - TMLG / TD / Police Consultation and Endorsement	0	30-Mar-15 A	18-Apr-15 A			onsultation and Endorsement
1071-1042	TTM Stage 3 - TTM Enabling Works	0	19-Apr-15 A	19-Apr-15 A		/ Enabling Work	
1071-1043	TTM Stage 3 - Use Existing E/B Lane to Divert 4 W/B Lane	0	· ·	19-Apr-15 A		Existing E/B Lar	e to Divert 4 W/B Lane
1071-1045	TTM Stage 4 - TMLG / TD / Police Consultation and Endorsement	32	20-May-15	26-Jun-15	0		TTM Stage 4 - TMLG
1071-1046	TTM Stage 4 - TTM Enabling Works	2	27-Jun-15	28-Jun-15	0		TTM Stage 4 - TTM
1071-1047	TTM Stage 4 - Hing Fat Slip Road Divert 1 Lane to New E/B Bridge through 'TA2' to	0		28-Jun-15	0		◆ TTM Stage 4 - Hing
10.7.2 - Oil Stree	et/Watson Road (Portion III)						
A12510	Box Culvert Demolition > Portion VIIB > Watson Road	0	01-Apr-15 A	07-Apr-15 A		/IIB > Watson R	ad
A12520	Box Culvert Demolition - Concrete Pavement Removal > Portion VIIB > Watson Ro	0	08-Apr-15 A	14-Apr-15 A		Concrete Pavem	ent Removal > Portion VIIB > Watson Road
A12530	Box Culvert Demolition - Trial Tench to Expose Grd. Utilities > Portion VIIB > Watson	0	15-Apr-15 A	19-Apr-15 A			to Expose Grd. Utilities > Portion VIIB > Watson Road
A12540	Box Culvert Demolition - Dem. Upper portion of Culvert (2M From R.L) > Portion V	0	20-Apr-15 A	30-Apr-15 A			- Dem. Upper portion of Culvert (2M From R.L) > Portion VIIB > Wat
A12550	Box Culvert Demolition - Remove Mud Deposit from Culvert > Portion VIIB > Watso	0	01-May-15 A	07-May-15 A			emolition - Remove Mud Deposit from Culvert > Portion VIIB > Watson
	Box Culvert Demolition - Backfilling > Portion VIIB > Watson Road	0	08-May-15 A		525		Box Culvert Demolition - Backfilling > Portion VIIB > Watson Road
A12560	Drainage works - Manhole 1-49B,DN450 & Associate Gully Pipes > Portion VIIB > W	0	05-May-15 A	,		Dra	nage works - Manhole 1-49B,DN450 & Associate Gully Pipes > Portion
A12560 A12570	Dialitage works - marinole 1-430, Dives 0 & Associate Outly 1 bes > 1 Ortion Viib > W	-	15-May-15 A		525		Drainage works - Manhole 1-49,DN300 & Associate Gully F
A12570		5					
A12570 A12590	Drainage works - Manhole 1-49, DN300 & Associate Gully Pipes > Portion VIIB > Wa	5 10		09-Jun-15	525		Drainage works - Manhole 1-49C.DN225 & A
A12570		5 10 5	28-May-15 09-Jun-15	09-Jun-15 15-Jun-15	525 525		Drainage works - Manhole 1-49C,DN225 & /

Remaining Level of Effort Milestone	Contract HY/2009/19	
Actual Work	3 Months Rolling Program (20 May 2015 - 19 Aug 2015)	
Remaining Work		
Critical Remaining Work		

/ August mber
19 26 02 09 16 23 30
r. Ramp > Pier D11-D12 Southern Side
A&B(excl IIB) - Appr. Ramp > Pier D11-D10 Southern Side
heet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D1
Drive Sheet Pile for Trough A & B (excl IIB) - Ap
Drive Sheet Pile for Trough
Drive Sh
IIIB) - Appr. Ramp > Pier D06-D08
ewatering System (excl IIB) - Appr. Ramp > Pier D08-D10
Install & Operate Dewatering System (excl IIB) - Appr. Ram
Install & Operate Dewatering System (exci IIB) - Appr. Ram
Retaining Wall E Pile Cap (7 nos)
Construct Retaining Wall E Bay 1
Construct Retaining Wall E Bay 3
Construct LD Middle Pile Cap (7nos)
TD / Police Consultation and Endorsement
Enabling Works
Fat Slip Road Divert 1 Lane to New E/B Bridge through 'TA2'
son Road
Road
. vuu
/IIB > Watson Road
ipes > Portion VIIB > Watson Road
Associate Gully Pipes > Portion VIIB > Watson Road
nt > Portion VIIB > Watson Road

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	LA MELA MALE					yout: CWB - Wor	-	and the state of the							nted 26-Sep-14
IV ID	Activity Name		Calendar	Original Duration	Start	Finish	Total Float				015			2016	
V/2009/4	5 - Works Pro	gramme Rev. M (DD:20-Sep-12	V	and an owned it	-		C.D.C.	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
			·						-			1	-		
		Adit - Based on Alternative Meth	od											-	
Reinstatem	ent of Breakwater								1.1						-
S3_54840	Reinstatement wo	irks -west side	7d/wk-1	60d	21-Feb-14 08 A	30-Sep-14 18	-85d	Reinstateme	ent works -west side					-	1
S3_60085	Reinstatement wo	orks east side	7d/wk-1	60d	31-May-14 08 A	30-Sep-14 18	-85d	Reinstateme	ent works east side						
S3_54845	Completion of Sec	ction 3 (KD8) in EVA Area (Alternative Method)	7d/wk-2	Od		30-Sep-14 18	-86d	Completion	of Section 3 (KD8) in	EVA Area (Alternat	ive Method)				
Norks in T	S1/TS2 - OHVI	D and Cable Trough/Maintenance	Walkway				-					-			1
110000	and the second second	/Maintenance Walkway	14.				-					-	-	-	1
OHVD Slab	and Cable Trough C	Construction					_	-							
S3_6210	TS2 - OHVD/ Cat		7d/wk-1	40d	20-May-14 08 A	20 Fee 14 18	954	TOOLOUN							-
					20-May-14 06 A		-85d		D/ Cable trough						1
S3_6212	Completion of Sec	ction 3 - TS1/TS2 Area (below -6mpd) KD8)	7d/wk-2	0d		30-Sep-14 18	-86d	Completion	of Section 3 - TS1/TS	52 Area (below -6m	pd) KDB)				1
Norks in 1	rs4/ME4 Area (I	Portion 14A, 14B, 15, 23)													
TS4/ME4 - R	Removal of Tempor	rary Reclamation													-
Remaining	Works at TZ6														
Stage 4 - S	eawall and Reclama	ution at TZG				_	-	-	-					_	
A-2010		wall blocks (Qty: 245 nos.)	7d/wk-2	6d	15-Sep-14 08 A	26-Sep-14 18	-332d	laula failer a		045		1			
							1.		f seawall blocks (Qty;	1					
A-2020		to -2.45mPD (Qty:3,000 cu.m.)	7d/wk-2	2d	25-Sep-14 08	26-Sep-14 18	-332d	Soil Backfillin	g up to -2.45mPD (C	ty:3,000 cu.m.)		1			
A-2030	Utilities installation	for Mined Tunnel	7d/wk-2	1d	27-Sep-14 08	27-Sep-14 18	-332d	I. Utilities insta	llation for Mined Tunr	nel					
A-2040	Soil backfilling up t	to ground level (Qty:2,000 cu.m.)	7d/wk-2	2d	28-Sep-14 08	29-Sep-14 18	-332d	I Soil backfillin	ig up to ground level	(Qty:2,000 cu.m.)		1010			
A-2050	Site clearance		7d/wk-2	1d	30-Sep-14 08	30-Sep-14 18	-305d	Site clearan	ce	1					
A-2060	Handover to MTR	2	7d/wk-2	Od		30-Sep-14 18	-305d	landover to	MTR						1
Removal of	Temporary Reclama	ation at TS4/ME4		1			-			1	(+
Stage 5 (2)	ones A. D & F - TS4-	-D33 to B-26, SCL2 & ME4-D19 to D13)				_					1				
A-3000		cutting (Qty: 62 pcs.)	7d/wk-2	21d	29-Aug-14 08 A	23-Sep.14.18	-340d	D Wall borry	ontal cutting (Qty: 62			-			
	one C - P4, ME4-D12		TO WARE	210	20-Aug-14 00 A	20-060-1410	-0400		intal conting (coty, oz	P(-5.)		_			
						and the second									1
A-3011	Marine removal o (Zones C)	f temporarly reclamation and seawall blocks	7d/wk-2	21d	31-Aug-14 08 A	02-Oct-14 18	-353d	Marine rem	ioval of temporarly re	clamation and seav	all blocks (Zon	esC)			1
A-3030	D-Wall vertical cu	tting (Qty: 15 pcs.)	7d/wk-2	4d	03-Oct-14 08	06-Oct-14 18	-353d	D-Wall ver	tical cutting (Qty: 15	pcs.)		-			1
A-3040	D-Wall horizontal	cutting (Qty: 20 pcs.)	7d/wk-2	5d	06-Oct-14 08	10-Oct-14 18	-352d	D-Wall ho	prizontal cutting (Qty:	20 pcs.)					1
Summa	ary Bar	1 of 18					1		P	repared by William	Caluza	,		4	
	Level of Effort	China Ph	te Constan	ction Err	ineering (Here	Kongilid			Date	Revision	Checked	Approved			
Actual \	Work	China Sta	te constru	cuon eng	gineering (Hong	rong) Lid			26-Sep 1st subm	ission	-	in	中國連步	東王程(喜港)	有限公
	ning Work	Contract No. HY/2009/15 - Central	Wan Chai F	V Pass -	Tunnel (Cause	way Bay Typ	hoon Sh	ottor Section)			-				
Remain	Remaining Work		Than ona L	y 1 400	· annon (sudos	may bay typ	noon or	ener bechony				NUM	CHINA STATE CON	STRUCTION ENGINEERING	

ty ID	Activity Name	Calendar	Original Duration	Start	Finish	Total Float			201				2016	
Stage 7 (Zor	nes C & E - ME4-D06 to D01, SCL1 & TS4-D25)		and studie	-	-	Hoat	Q4	Q1	Q2	Q3	Q4.	Q1	Q2	Q3
and the second se			_											
A-4000	Marine removal of temporarly redamation and seawall blocks (Zones C & E)	7d/wk-2	18d	06-Sep-14 08 A	06-Oct-14 18	-353d	Marine remova	I of temporarly rec	armation and seawa	I blocks (Zone	s C & E)			
A-3090	Hole coring (Qty: 44 nos)	7d/wk-2	9d	20-Sep-14 08*	28-Sep-14 18	-346d	Hole coring (Qty	44 nos)						
A-4010	D-Wall vertical cutting (Qty: 27pcs.)	7d/wk-2	7d	07-Oct-14 08	13-Oct-14 18	-353d	D-Wall vertic	al cutting (Qty: 27p	ocs.)					
A-4020	D-Wall horizontal cutting (Qty: 37 pcs.)	7d/wk-2	10d	11-Oct-14 08	20-Oct-14 18	-353d	D-Wall horia	ontal cutting (Qty:	37 pcs.)		1			
Stage 9 (Zor	ne (- TS4-D01 to TS4-D08)				-	-	-				1	-		
A-3050	Remaining removal of temporary reclamation (Zone I)	7464.0	-					Sec. 1. Al			1			
		7d/wk-2	28d	29-Aug-14 08 A	01-Oct-14 1B	-342d	Remaining rem	oval of temporary i	reclamation (Zone I)					
A-3060	Hole coring (Qty: 25 nos)	7d/wk-2	5d	02-Oct-14 08	06-Oct-14 18	-342d	Hole coring (Q	ty: 25 nos)	1.2					
A-3070	D-Wall vertical cutting (Qty: 14 pcs.)	7d/wk-2	3d	07-0d-14 08	09-Oct-14 18	-342d	D-Wall vertica	cutting (Qty: 14 p	ics.)		1			
A-3080	D-Wall horizontal cutting (Qty: 24 pcs.)	7d/wk-2	5d	21-Oct-14 08	25-Oct-14 18	-353d	D-Wall hor	zontal cutting (Qty	24 pcs.)					
Stage 8 (Zor	nes G & K - TS4-D24 to TS4-D15)				-	-						-		
A-4040	Relocation of RHKYC floating pontoon	7d/wk-2	5d	22-Sep-14 08*	26-Sep-14 18	-338d	Relocation of RH	KYC floating ponte	000					
A-4050	Hole coring (Qty: 27 nos)	7d/wk-2	6d	29-Sep-14 08	04-Oct-14 18	-346d	Hole coring (Q1	1						
A-4060	Marine removal of temporary reclamation and seawall blocks		-			1.500								
	(Zone G & K)	7d/wk-2	14d	11-Oct-14 08	24-Oct-14 18	-352d	Marine rem	loval of temporary	reclamation and sea	wall blocks (Zo	ne G & K)			
A-4070	D-Wall vertical cutting (Qty: 18pcs.)	7d/wk-2	4d	25-Oct-14 08	28-Oct-14 18	-352d	D-Wall ve	tical cutting (Qty:	18pcs.)					
A-4080	D-Wall horizontal cutting (Qty: 25 pcs.)	7d/wk-2	7d	26-Oct-14 08	01-Nov-14 18	-352d	D-Wall ho	rizontal cutting (Q	ty: 25 pcs.)					
Stage 10 (Zo	one 4 - TS4-009 to TS4-014)		-	1		-					-			
A-4090	Land removal of temporary reclamation (Zone J)	7d/wk-2	10d	07-Oct-14 08	16-Oct-14 18	-344d	Land remova	al of temporary rec	lamation (Zone J)					
A-5000	Hole coring (Qty: 32 nos)	7d/wk-2	7d	17-Oct-14 08	23-Oct-14 18	-340d	Hole coring							
A-5010	Marine removal of temporary reclamation (Zone J)	7d/wk-2	7d	26-Oct-14 08	01-Nov-14 18	-353d								
			10		1	1.00		11.	ry reclamation (Zone	J)				
A-5020	D-Wall vertical cutting (Qty: 20 pcs.)	7d/wk-2	5d	02-Nov-14 08	06-Nov-14 18	-353d	D-Wall v	ertical cutting (Qty	: 20 pcs.)					
A-5030	D-Wall horizontal cutting (Qty: 26 pcs.)	7d/wk-2	7d	04-Nov-14 08	10-Nov-14 18*	-353d	D-Wall	norizontal cutting (Qty: 26 pcs,)					
Stage 13 - Ph	nase 3 Mooring				-									
A-5050	Final trimming of sea bed level	7d/wk-2	4d	02-Nov-14 08	05-Nov-14 18	-347d	Final trin	ming of sea bed le	evel					
A-5060	Phase 3 Mooring	7d/wk-2	6d	06-Nov-14 08	11-Nov-14 18	-347d	Phase 3	Mooring						
A-5040	Reinstatement of exisiting seawall (Zones I & J)	7d/wk-2	7d	11-Nov-14 08	17-Nov-14 18	-353d			g seawall (Zones I &	0				
Stano 12 - Ro	e-provisioning of Jetty			11 1101 1 1,00	11.11011.11.10	ood	- realise	arement of existing	g souwall (201153 1 a	5)	-			
								1.						
S6_5258	Provision of Mobile Crane (until permanent re-provision of Jetty is completed)	7d/wk-1	160d	20-Feb-14 08 A	30-Dec-14 18	-335d	1	Provision of Mo	bile Crane (until per	manent re-prov	ision of Jetty is c	ompleted)		
A-6010	BA8 submission and consent for commencement of superstructure	7d/wk-2	28d	20-Sep-14 08 A	16-Oct-14 18	-336d	BA8 submiss	ion and consent fo	r commencement of	superstructure				
Actual W Remainin	verel of Effort /ork ng Work Remaining Work		y Pass -	gineering (Hong Tunnel (Cause AMME REV.		hoon Sh	26-	Pre Date Sep 1st submis	epared by William Ca Revision sion	Checked Ap	proved	中國連禁工 CHINA STATE CONSTRU		

y ID	Activity Name		Calendar	Original	Start	Finish	Total					2015				2016	
A-6012	Dubatiesian of an			Duration			Float	Q4		Q1	Q2	Q3		Q4	Q1	Q2	Q3
A-0012	Submission of pe	nformance report	7d/wk-2	1d	25-Oct-14 08*	25-Oct-14 18	-286d	Submis	ssion of p	erformance	report	1	-				
A-6020	floating portoon	ng platform for jetty beams and reinstate the	7d/wk-2	10d	02-Nov-14 08	11-Nov-14 18	-352d	Ere	ction of v	vorking platfo	orm for jetty bean	is and reinstate	the floating	g portoon			
A-6040	BA10 submission	for authorized signatory and subcontractor	7d/wk-2	1d	12-Nov-14 08	12-Nov-14 18	-304d	I BA1	10 submi	ssion for aut	horized signatory	and subcontract	tor				
A-6030	Jetty beams cons	struction	7d/wk-2	14d	12-Nov-14 08	25-Nov-14 18	-352d		Jetty bea	ms construct	ion						
A-6052	Construction of f	oating pontoon	7d/wk-2	14d	26-Nov-14 08	09-Dec-14 18	-331d		Constr	uction of floa	ting pontoon	it to a	1				
A-6050	BA13 submission	+ 14-day cube test results	7d/wk-2	28d	26-Nov-14 08	23-Dec-14 18	-352d	-	BA	3 submission	n + 14-day cube t	est results					-
A-6060	E&M and access	ories installation	7d/wk-2	7d	24-Dec-14 08	30-Dec-14 18	-352d	1	E E8	M and acce	ssories installatio	n. :					-
A-6070	Handover to RHI	KYC	7d/wk-2	1d	31-Dec-14 08	31-Dec-14 18	-352d		На	andover to R	HKYC		1				
Stage 11 - C	Construction of TZ4					-			-		-				-	1	_
A-6080	South side - layin	g rockfill and levelling stone (Qty: 1,550 cu.m)	7d/wk-2	12d	24-Sep-14 08	05-Oct-14 18	-339d	South side	- laying r	ockfill and lev	velling stone (Qt	r. 1,550 cu.m)					
A-6090	South side - insta	II seawall blocks (Qty: 255 nos.)	7d/wk-2	6d	06-Oct-14 08	11-Oct-14 18	-339d	1.000	121		ks (Qty: 255 nos	-					
A-7000	South side - gene	eral fill (Qty: 2,000 cu.m.)	7d/wk-2	2d	12-Oct-14 08	13-Oct-14 18	-339d	South side	e - gener	ral fill (Qty: 2	,000 cu.m.)						
A-7010	North side - laying	g rockfill and levelling stone (Qty: 1,550 cu.m)	7d/wk-2	12d	21-Oct-14 08	01-Nov-14 18	-346d	North	side - la	ying rockfill a	nd levelling stone	(Qty: 1,550 cu	.m)				
A-7020	North side - instal	Il seawall blocks (Qty: 255 nos.)	7d/wk-2	6d	02-Nov-14 08	07-Nov-14 18	-346d	Nort	h side - i	nstall seawal	blocks (Qty: 255	nos.)					
A-7030	North side - gene	eral fill (Qty.2,000 cu.m.)	7d/wk-2	2d	08-Nov-14 08	09-Nov-14 18	-346d	1 Nort	th side -	general fill (C	ty:2.000 cu.m.)						
A-7040	Handover to cont	trad TS3/SR8	7d/wk-2	1d	10-Nov-14 08	10-Nov-14 18*	-346d	1 Han	dover to	contract TS	3/SR8						i.
TS4/ME4, Re	emoval of Tempora	ry Reclamation					-	1	-								
S26875			-					1			1	1					
		ction 2 (With ME4 option) (KD7)	7d/wk-2	Od		17-Nov-14 18	-353d	♦ Co	mpletion	of Section 2	(With ME4 optio	n) (KD7)	1			3	
S26890	Completion of Se	ction 7B (ME4) (KD13)	7d/wk-2	Od		17-Nov-14 18	-353d	♦ Co	mpletion	of Section 7	B (ME4) (KD13)					1	
rs4 - OHVD	/ Cable Trough						-	1	-					_	-		
S5_6185	TS4 (incl. TS4+) opening at TZ4)	- OHVD Slab - Area C (access through temp.	7d/wk-1	36d	02-Jan-15 08*	06-Feb-15 18	195d			TS4 (in	d. TS4+) - OHVE	Slab - Area C	(access thr	ough temp	o. opening at TZ4)		
S5_6190	TS4 (incl. TS4+) - at TZ4)	- Cable Trough (access through temp. opening	7d/wk-1	60d	07-Feb-15 08*	14-Apr-15 18	195d			(C)	TS4 (ind. T	S4+) - Cable T	rough (acco	ess throug	h temp, opening at	TZ4)	1000
S5_59850	1.00- 1.00- 1.0	ction 5 - TS4/ME4 Area (KD10), below	7d/wk-2	0d		02-Nov-15 18*	b0						1		etion of Section 5 -	1	KD10), below -20n
orks in T		(Portion 20A, 20B)					-						-		-		
Removal of	Temporary Recla	mation						1	_	-		1		_	1		1
								1		_			-1-			1	
Removal of	Temporary Reclam	ation & Form TZ5						1								1	10000
S87670	Remove general	fill /sea wall block	7d/wk-1	24d	20-May-14 08 A	08-Oct-14 18	-296d	Remove g	eneral fill	/sea wall blo	ock						
S67675	Diaphragm wall s	aw cutting (1st D Wall cut on 23 Jun 2014)	7d/wk-1	31d	03-Sep-14 08 A	16-Oct-14 18	-306d	Diaphrag	ım wall sı	aw cutting (1	st D Wall cut on 2	3 Jun 2014)	1				
S67755	Form TZ5		7d/wk-1	18d	25-Sep-14 08	14-Oct-14 18	-304d	Form TZ	5							1	-
Summa	ary Bar	3 of 18					1	1		Dr	epared by Willian	Caluza		-		1	
	Level of Effort								Date	- Ci	Revision		Approved	ī			
Actual V		China Stat	e Construc	tion Eng	ineering (Hong	Kong) Ltd			26-Sep.	., 1st submis	ssion			-		- 30/=	1200-
	ning Work	Contract No. HY/2009/15 - Central V	Van Chai By	Pass -	Tunnel (Cause	way Bay Typi	noon She	Iter Section)		-		-		SUED			。) 有限公司 NG (HONG KONG) LTD.
Critical I	Remaining Work					19 11 19 10 11 11		a seattle of	-					- Contract	CHINA SIAIL CORSTR	OCTION ENGINEER	NO HONG KONG LID.

		Calendar	Original Duration	Start	Finish	Float			2	015		1.000	2016	
S67685	Achievement of KD5	7d/wk-2	Od		10.0-1 (1.10		Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
Con the		TU/WK-2	ua		16-Oct-14 18	-323d	Achievemen	n of KD5	E.					
S67687	Complete Reinstatement of Vertical Seawall (near PRE Office)	7d/wk-2	Od		27-Oct-14 18	-322d	Complete	Reinstatement of	Vertical Seawall (n	ear PRE Office)				
Reinstate M	lucking Out Access Shaft "C"		~		-	-					-			
S67240	Start reinstatement works (after completion of TPCWAW OHVD	6d/wk	Od	26-Mar-16 08	1	-102d								1
S67225	works) Cest slab opening at top of CCT West bound (access shaft)	6d/wk	18d	28-Mar-16 08	16-Apr-16 18	-102d							 Start reinstaten 	
S67230	Removal of vertical shaft and backfilling		_	1.1.1.1.1.1.1		1.000			1				Cast slab o	pening at top of
		6d/wk	48d	11-Apr-16 08	04-Jun-16 18	-102d							R	emoval of verti
S67235	Reinstatement of pavement	6d/wk	12d	30-May-16 08	11-Jun-16 18	-102d			1				-	Reinstatement
TPCWAE - O	HVD / Cable Trough			line	1									
S5_7405	TPCWAE - Cable Trough (access through temp, opening at TZ5 & Portion 19)	6d/wk	48d	04-Sep-15 08	02-Nov-15 18	Od				-	TPCWA	- Cable Troug	access through te	mp. opening at
S5_7400	TPCWAE - OHVD Slab AT Area A (access through temp.	6d/wk	48d	04-Sep-15 08	02-Nov-15 18	Od						1.000	T Area A (access t	
S5_59840	opening at TZ5 & Portion 19) Completion of Section 5 - TPCWAE Area (KD10), below	7d/wk-2	Od		02-Nov-15 18*	Dd						1.000	. P	
	-20mPD	· stor a			02-1404-10 10	UU					Completi	dn of Section 5 -	TPCWAE Area (KI	010), below -20
Works in T	PCWAW A rea							1	1				1	1
TPCWAW - T	Temporary Reclamation		-				1						1	
Temporary F	Reclamation -						1						-	
S6_9440	TPCWAW - place levelling stone and tamping, South side	7d/wk-1	6d	15-Oct-14 08	20-Oct-14 18	-122d	TPCWAW.	niaca lovelline el	one and tamping, S	auth aide				
S6_9450	TPCWAW - place seawall block to +4 at South side (Qty: 569		100										1	
	nos. @ 50 nos/day)	7d/wk-1	12d	21-Oct-14 08	01-Nov-14 18	-122d	TPCWAV	V - place seawali	block to +4 at South	t side (Qty: 569 nos	s. @ 50 nos/day)			
S6_9465	TPCWAW - place levelling stone and tamping, North side	7d/wk-1	6d	02-Nov-14 08	07-Nov-14 18	-122d	TPCWA	W - place levelli	ng stone and tampir	ng, North side				
S6_9470	TPCWAW - place seawall blocks to +4 North side (Qty:672 nos @ 50 nos/day)	7d/wk-1	14d	08-Nov-14 08	21-Nov-14 18	-122d	TPC	NAW - place sea	wall blocks to +4 No	orth side (Qty:672 n	os @ 50 nos/day	13		
S6_9495	TPCWAW - General fill to +2 within the seawall	7d/wk-1	17d	15-Nov-14 08	01-Dec-14 18	-122d	TP	CWAW - Genera	i fill to +2 within the	seawall				
S6_9490	TPCWAW - place seawall blocks to +4 at the temporary opening	7d/wk-1	7d	02-Dec-14 08	08-Dec-14 18	-122d		PCWAW - place :	seawali blocks to +4	at the temporary of	nenina			
S6_9475	TPCWAW - Remaining General fill to +4 within the seawall.	7d/wk-1	10d	09-Dec-14 08	18-Dec-14 18	-122d								
			100	55 500 14 60	10-000-14-10	-1220	-	FGVVAVV - Ren	naining General fill to	o +4 within the seav	waii			
IPC WAW - D	Diaphragm Wall													1
Diaphragm V	Wall						1		1				1	1
S6_9385	Site investigation	7d/wk-1	49d	01-Dec-14 08	21-Jan-15 18	-113d		Site invest	igation					
S6_8960	Install guide wall	7d/wk-1	40d	17-Dec-14 08	28-Jan-15 18	-120d		Install gu	ide wall					
S6_8955	Curtain grout along proposed diaphragm wall	7d/wk-1	40d	19-Dec-14 08	30-Jan-15 18	-122d			1					
56_9382	Set up bentonite silo/plants and equipments								grout along propose					1
		7d/wk-1	30d	19-Dec-14 08	20-Jan-15 18	-112d		Set up ber	itonite silo/plants an	d equipments				1
S6_9345	Diaphragm wall construction (34 panels @ 3 panels/ week)	7d/wk-1	68d	30-Jan-15 08	14-Apr-15 18	-141d			Diaphragm w	vall construction (34	panels @ 3 pane	ls/ week)		
S6_9350	Install shear pins on diaphragm wall	7d/wk-1	40d	14-Mar-15 08	26-Apr-15 18	-133d			Install shea	ar pins on diaphragi	m wall			
Summar	ry Bar 4 of 18				-	1	1.0	P	repared by William	Caluza	_		1	1
	evel of Effort	Construe	tion Eng	incentes (Lles	- Kanal I M			Date	Revision	Checked App	roved			
Actual W	vork			ineering (Hon				Sep 1st submi	ssion		0.00	古雨津 知	工程(春港)	2-10 -11=
	ing Work Contract No. HY/2009/15 - Central V	Van Chai By	Pass -	Tunnel (Caus	eway Bay Typh	hoon Shel	ter Section)			-			工程(音·志)·	
	Remaining Work	NORKER	BOOD										and a real for the second s	TOTO NOTO LI
 Mileston 	le V	WORAS P	RUGR	AMME REV										

/ity ID	Activity Name		Calendar		Start	Finish	Total				-	2015	-			2016	_
S6_9355	Install king posts		7d/wk-1	Duration 40d	14-Mar-15 08	26-Apr-15 18	-133d	Q4	0	21	Q2	and the second sec	Q3	Q4	Q1	Q2	Q3
S6_8970	Diaphragm Wall F	Mar Anna			and a start of the					-	Install	king posts					1
			7d/wk-1	40d	20-Mar-15 08	03-May-15 18	-129d			-	Diap	hragm Wall	Pile test			*	
S6_9375	Carry out contact/	fissure grouting	7d/wk-1	29d	21-Mar-15 08	22-Apr-15 18	-141d	1			Carry	out contact/fi	ssure grouting				
TPCWAW-E	LS Works							1									-
ELS Works								1		-		1	-	12			
S6_9360	Install dewatering	wells and piezometers	7d/wk-1	20d	30-Mar-15 08	22-Apr-15 18	-141d			-	🔳 Install (dewatering v	ells and piezon	neters			1
S6_9365	Install indinometer	s inside D-wall	7d/wk-1	20d	15-Apr-15 08	05-May-15 18	-141d						ers inside D-wa				-
S6_8975	Carry out pumping	g tests	7d/wk-1	12d	23-Apr-15 08	05-May-15 18	-141d					y out pumpi					1
S6_8980	1st Layer - D Wa	I conc over break if any & Soft Excavation	7d/wk-1	10d	06-May-15 08	15-May-15 18	-141d			1				-mbru			
S6 9260	Submit pumping te		7d/wk-1	1d		1.000		111		1				break if an	y & Soft Excavation		
S6_8985	1st Layer - install I				06-May-15 08	06-May-15 18	-137d	- I I I I		1	Sub	mit pumping	test report				
			7d/wk-1	10d	16-May-15 08	26-May-15 18	-141d					1st Layer - in	istall lateral sup	port			
S6_8990	Install vibrating wi		7.d/wk-1	10d	16-May-15 08	26-May-15 18	-141d					Install vibrati	ng wire strain g	auge			
S6_8995	2nd Layer - D Wa	Il conclover break if any & Soft Excavation	7d/wk-1	10d	18-May-15 08	28-May-15 18	-141d			1		2nd Layer -	D Wall conc ov	er break if	any & Soft Excavatio	n	
S6_9000	2nd Layer - install	lateral support	7d/wk-1	10d	29-May-15 08	07-Jun-15 18	-141d	1	2nd Layer - install lateral support								
S6_9005	3rd Layer - D Wal	I conc over break if any & Soft Excavation	7d/wk-1	10d	31-May-15 08	09-Jun-15 18	-141d	1	3rd Layer - D Wall conc over break if any & Soft Excavation								
S6_9010	3rd Layer - install	lateral support	7d/wk-1	10d	10-Jun-15 08	19-Jun-15 18	-141d	1	3rd Layer - Install lateral support								
S6_9015	4th Layer - D Wal	conc over break if any & Soft Excavation	7d/wk-1	10d	12-Jun-15 08	22-Jun-15 18	-141d					a 4th Lay	er - D Wall con	c over brea	ak if any & Soft Exca	vation	
S6_9020	4th Layer - install I	ateral support	7d/wk-1	10d	23-Jun-15 08	03-Jul-15 18	-141d					📫 4th L	ayer - install lat	eral suppor	rt		
S6_9025	5th Layer - D Wa	I conc over break if any & Soft Excavation	7d/wk-1	10d	25-Jun-15 08	05-Jul-15 18	-141d	1				📩 5th L	aver - D Wall	conc over l	break if any & Soft E	xcavation	
S6_9030	5th Layer - install I	ateral support	7d/wk-1	10d	27-Jun-15.08	07-Jul-15 18	-141d						ayer - install la		************************************		
S6_9035	6th Layer - D Wa	Il conc over break if any & Soft Excavation	7d/wk-1	10d	08-Jul-15 08	17-Jul-15 18	-141d						1		er break if any & Sof	Consultan	
S6_9040	6th Layer - install I	ateral support	7d/wk-1	10d	18-Jul-15 08	27-Jul-15 18	-69d			8			5th Layer - inst			Excavation	
TPCWAW - R	OCK EXCAVATION	J			1227 2.75	Ter san te te			-	-		1.5	om Layer - Inst	all lateral st	трррп		1
S6_6180	Rock excavation to		dalate a l												1.1.1		
			7d/wk-1	112d	18-Jul-15 08	09-Nov-15 18	-141d					-			excavation to forma	<i></i>	
S6_9370	Portion 11)	hor to D- Walls (area on west side, near	7d/wk-1	25d	20-Jul-15 08	13-Aug-15 18	-69d			Į.		-	Install tie ba	k anchor t	o D- Walls (area on	west side, near Po	ntion 11)
S6_9415	Install tie back and	hor to D- Walls (east area)	7d/wk-1	20d	20-Jul-15 08	08-Aug-15 18	-69d						Install tie bac	k anchor to	D- Walls (east area	0	1
S6_9055	Provide Access to Portion 11	WDII Contractor for demolition of bulkhead at	7d/wk-2	Dd		10-Nov-15 18	-133d			1		1.1		Provi	ide Access to WDII C	Contractor for demi	olition of bul
TPCWAW- CO	CT RC Structure				-					1		-			1		
TPOWAW-C	CT / OHVD								-					-			
Summar	ry Bar	5 of 18						4		Dropp	ared by Willi	am Columa		-	_		
	evel of Effort	Chies Stat	Constant	tion East	Incode- (1)	. Kanalitat			Date	R	evision		cked Approve	d			
Actual W		the state of the state of the			ineering (Hon				26-Sep 1s	st submissio	n			BAR	前周道 第	て寝(家神)	2-10-11
	ing Work	Contract No. HY/2009/15 - Central W	an Chai B	Pass -	Tunnel (Cause	eway Bay Typh	noon Shelf	ter Section)		-		-		esute	中國運業: CHINA STATE CONSTR		
 Mileston 	Remaining Work				AMME REV.	100								-			

NID	Activity Name	Calendar	Original	Start	Finish	Total	and the second se		20	015			2016	-
S6_9070	TPCWAW Construct tunnel base slab	7d/wk-1	Duration 50d	23-Oct-15 08	11-Dec-15 18	Float -141d	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
												TPCWAW Constr	uct tunnel base slab	
S6_9075	TPCWAW Construct tunnel wall + OHVD + roof slab	7d/wk-1	80d	13-Nov-15 08	02-Feb-16 18	-141d		1				TPCW/	W Construct tunne	wall + OHVD +
S6_9077	TPCWAW - external waterproofing on top of completed CCT box (ind. screeding)	7d/wk-1	26d	03-Feb-16 08	28-Feb-16 18	-120d		1				TP	WAW - external w	aterproofing or
S6_9076	TPCWAW King post load transfer	7d/wk-1	26d	03-Feb-16 08	28-Feb-16 18	-120d		1				TF	WAW King post la	ad transfer
TPCWAW - F	Removal of Temporary Reclamation			-				-			_	1		
Removal of	Temporary Reclamation													
S6_9140	Backfilling/Removal of ELS/ Reinstatement of sea wall at Portion	7d/wk-1	30d	17-Feb-16 08	17-Mar-16 18	-120d						_		
S6_9105	11 (concurrent activities) Remove general fill/ seawall block (concurrent activities)	7d/wk-1	25d	06-Mar-16 08				1					Backfilling/Remova	
				C. L. CONTRACTOR	30-Mar-16 18	-120d							Remove genera	fill/ seawall bloc
S6_9120	Saw cut diaphragm wall	7d/wk-1	63d	21-Mar-16 08	23-May-16 18	-120d						1 1	Saw	cut diaphragm w
S6_7550	Completion of Section 6- (KD11), above - 20mPD	7d/wk-2	Od		23-May-16 18	-121d		Ê					Comp	letion of Section
TPCWAW -C	able Trough/ Maintenance Walkway				-			1						
S6_9085	TPCWAW - Cable Trough (access through temp. opening at	7d/wk-2	24d	02-Mar-16 08	25-Mar-16 18	-144d	1	Į.					TPCWAW - Cab	e Trough (acces
S6_9135	Portion 19) Completion of Section 5 - TPCWAW Area (KD10), below	7d/wk-2	b0		25-Mar-16 18	-144d		1					Completion of Se	
Worke in W	-20mPD Van Chai PCWA (Portion 11)		-	-		1							Completion of de	alon 3 - TPC W
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	and succession of the same													
Initial Works	& Utilities Works							1					1	
S4_2810	Installation of Hoarding	7d/wk-1	24d	05-May-14 08 A	17-Oct-14 18	-58d	Installation of	f Hoarding						
S4_2720	Remove existing rock mound	7d/wk-1	24d	21-Oct-14 08	13-Nov-14 18	-61d	Remov	e existing rock moun	ď					
S4_2750	Carry out Site Investigation for BW1/BW2	7d/wk-1	12d	21-Oct-14 08	01-Nov-14 18	-61d	📕 Carry ou	Site Investigation for	BW1/BW2					
S4_2755	BW1/BW2 Engineers confirmation of provisional Barrettes	7d/wk-1	0d		07-Nov-14 18	-61d	♦ BW1/B	V2 Engineers confirm	nation of provisio	nal Parrettes				
Allow Acces	s to WDII				Contra S Mas				and of provide					
S4_2785		2 K 4 8					1	1						
	Complete Section 4 - Portion 11 (KD9)	7d/wk-2	0d		10-Nov-15 18	-132d					 Comp 	ete Section 4 - Pol	rtion 11 (KD9)	
S4_2775	Return Portion 11 to WDII	7d/wk-1	b0		10-Nov-15 18	-129d		1			Return	Portion 11 to WD	0	
Norks for	Mined Tunnel (Portion 16, 17, 18)							1				1	1	
SR8 (Tunnel	Excavation + Lining)							t i				-		
From West (TPCWAE)							1					-	
Heading Ex	cavation (2d/m, 24h/day work shift, 7d/week, no work on statut	ory holiday)	_			_								
A8676	SR8 Heading Excavation From West, CH 4095- 4107 = 8m		404		00.0					and the second				
	@2d/m	7d/wk-1a	16d	03-Sep-14 08 A	20-Sep-14 18	164d	SR8 Heading E	cavation From West	, CH 4095- 410	7 = 8m @2d/m				
Bench Exca	avation (1.5d-2d/m, 20m separation with heading)													
A8700	SR8 Bench Excavation From West, CH 4055- 4065 = 10m	7d/wk-1a	20d	08-Sep-14 08 A	24-Sep-14 18	148d	SR8 Bench Exca	vation From West, C	H 4055- 4065 =	10m			1	
Summa Actual L Actual V	evel of Effort China Sta			jineering (Hon			26		ared by William (evision n	Caluza Checked Appro	oved	中國還算	工程(香港)纬	了限公司

y ID	Activity Name	Calendar	Original	Start	Finish	Total				2015			2016	
40705		-	Duration	05.0	10 0 11 11 17	Float	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
A8705	SR8 Bench Excavation From West, CH 4065- 4075 = 10m	7d/wk-1a	20d	25-Sep-14 08	15-Oct-14 18	148d	SRB Bench Ex	cavation From V	Vest, CH 4065-	4075 = 10m				
A8685	SR8 Bench Excavation From West, CH 4075- 4085 = 10m	7d/wk-1a	20d	16-0d-14 08	04-Nov-14 18	148d	SR8 Benc	h Excavation Fro	m West, CH 40	75- 4085 = 10m				
A8680	SR8 Bench Excavation From West, CH 4085- 4095 = 10m	7d/wk-1a	20d	05-Nov-14 08	24-Nov-14 18	148d	SR8 B	lench Excavation	From West, Ci	H 4085- 4095 = 10m				
A8725	SR8 Bench Excavation From West, CH 4095- 4100 = 5m	7d/wk-1a	10d	25-Nov-14 08	04-Dec-14 18	148d	SRB	Bench Excavatio	n From West, 0	CH 4095- 4100 = 5m				
From East ((TS4)		-			-						-	-	
Heading E	xcavation (2d/m, 24h/day work shift, 7d/week, no work on statu	tory holiday)	-								-	-		
A8495	SR8 Heading Excavation From East CH 4115- 4107 = 8m	7d/wk-1a	16d	15-Sep-14 08 A	28-Sep-14 18	10d	SR8 Heading Exc	avation From Ea	ast CH 4115- 41	07 = 8m @2d/m				
Bench Exc	@2d/m cavation (1.5d/m, 20m separation with heading)		-			-		_						
A8455	SR8 Bench Excavation From East, CH 4147.5- 4135 = 12.5m	7d/wk-1a	19d	20-Sep-14 08	09-Oct-14 18	Od	SR8 Bench Exc	avation From Ea	st. CH 4147.5-	4135 = 12.5m				
A8470	SR8 Bench Excavation From East, CH 4135- 4125 = 10m	7d/wk-1a	15d	10-Oct-14 08	24-Oct-14 18	Od	SR6 Bench i							
0.8.05	THE PROPERTY OF A REAL PROPERTY OF A		4.55	A CONTRACTOR OF A CONTRACT		1	14							
A8460	SR8 Bench Excavation From East, CH 4125- 4115 = 10m	7d/wk-1a	15d	25-Oct-14 08	08-Nov-14 18	Od		ch Excavation Fr	1					
A8465	SR8 Bench Excavation From East, CH 4115- 4100 = 15m	7d/wk-1a	23d	09-Nov-14 08	01-Dec-14 18	Od	SR8	Bench Excavatio	on From East, C	H 4115- 4100 = 15m		1.2		
Tunnel Lini	ing Works													
From West	t - Base Slab (10m/bay, 10m separation with benching excavation	on)							-					
A8525	SR8, From West, CH 4015 - 4025 = 10m/bay, base slab	7d/wk-1a	10d	15-Sep-14 08 A	04-Oct-14 18	137d	SR8, From Wes	t, CH 4015 - 402	5 = 10m/bay, ba	ase slab		1.1.1.1.1		-
A8530	SR8, From West,CH 4025 - 4035 = 10m/bay, base slab	7d/wk-1a	10d	05-Oct-14 08	14-Oct-14 18	163d	SR8, From W	est,CH 4025 - 40) 35 = 10m/bay, 1	base slab				
A8535	SR8, From West,CH 4035 - 4045 = 10m/bay, base slab	7d/wk-1a	8d	15-Oct-14 08	22-Oct-14 18	165d	SR8, From	Vest,CH 4035 - 4	4045 = 10m/bay	, base slab				
A8540	SR8, From West, CH 4045 - 4055 = 10m/bay, base slab	7d/wk-1a	8d	23-Oct-14 08	30-Oct-14 18	165d	SR8 From	West, CH 4045	- 4055 = 10m/b	av base slab				
	· · · · · ·				a march a sea	160d								£.
A8545	SR8, From West, CH 4055 - 4065 = 10m/bay, base slab	7d/wk-1a		05-Nov-14 08	12-Nov-14 18			om West, CH 40						12
A8550	SR8, From West, CH 4065 - 4075 = 10m/bay, base slab	7d/wk-1a	8d	25-Nov-14 08	02-Dec-14 18	148d	SR8	, From West, CH	4065 - 4075 =	10m/bay, base slab				
A8555	SR8, From West, CH 4075 - 4085 = 10m/bay, base slab	7d/wk-1a	8d	05-Dec-14 08	12-Dec-14 18	148d	S	R8, From West, 0	CH 4075 - 4085	= 10m/bay, base slab			1	
A8560	SR8, From West, CH 4085 - 4095 = 10m/bay, base slab	7d/wk-1a	8d	13-Dec-14 08	20-Dec-14 18	150d		SR8, From West	CH 4085 - 409	95 = 10m/bay, base sli	ib			
A8561	SR8, From West, CH 4095 - 4105 = 10m/bay, base slab	7d/wk-1a	8d	21-Dec-14 08	29-Dec-14 18	152d		SR8, From We	st, CH 4095 - 4	105 = 10m/bay, base	slab			
A8562	SR8, From West, CH 4105 - 4115 = 10m/bay, base slab	7d/wk-1a	8d	30-Dec-14 08	07-Jan-15 18	154d		SR8, From W	/est, CH 4105 -	4115 = 10m/bay, basi	slab			
From West	t - Lining (5mibay, 10m separation with base slab)		-			-						-		-
A8575	SR8, From West, CH 3995 - 4000 = 1bay, lining	7d/wk-1a	9d	20-Sep-14 08	28-Sep-14 18	Dd	SR8, From West	CH 3995 - 4000	= 1bay, lining					
							SR8, From W		1					
A8580	SR8, From West, CH 4000 - 4005 = 1bay, lining	7d/wk-1a		05-Oct-14 08	13-Oct-14 18	137d	HE LINE		1.1.1.1.1	28				
A8585	SR8, From West, CH 4005 - 4010 = 1bay, lining	7d/wk-1a	9d	14-Oct-14 08	22-Oct-14 18	137d	SR8, From							
A8590	SR8. From West, CH 4010 - 4015 = 1bay, lining	7d/wk-1a	9d	23-Oct-14 08	31-Oct-14 18	137d	SR8, From	n West, CH 4010	+ 4015 = 1bay,	lining				
Summa	ary Bar 7 of 18								repared by Willia					
Actual	Level of Effort China St	ate Constru	ction En	gineering (Hor	g Kong) Ltd			Date Sep 1st submit	Revision	Checked Ap	proved		1 and a state of the	
Actual Remain	Work					hoos Sh	Second Street and Street	Far in addition			-CIVE-		エ霍(香港)	
	ining Work Contract No. HY/2009/15 - Central	wan Chai E	y Pass -	i unnei (Caus	eway Bay Typ	noon Sh	letter Section)					CHINA STATE CONSTRU	UCTION ENGINEERING	CHONG KON
 Milesto 		WORKS	ROGE	AMME REV	. M									

D	Activity Name		Calendar	Original	Start	Finish	Total			21	015		-		2016	_
A8595	SPR From Work C		746.4.4.	Duration			Float	Q4	Q1	Q2	Q3		Q4	Q1	Q2	Q3
1100 L	SR8, From West, C	CH 4015 - 4020 = 1bay, lining	7d/wk-1a	9d	01-Nov-14 08	09-Nov-14 18	137d	SR8, Fr	om West, CH 4015	i - 4020 = 1bay, lin	ining					
A8600	SR8, From West, C	CH 4020 - 4025 = 1bay, lining	7d/wk-1a	9d	10-Nov-14 08	18-Nov-14 18	137d	SR8, F	rom West, CH 402	20 - 4025 = 1bay,	lining			11.11		
A8605	SR8, From West, C	CH 4025 - 4030 = 1bay, lining	7d/wk-1a	5d	19-Nov-14 08	23-Nov-14 18	137d	SR8,	From West, CH 40	025 - 4030 = 1bay	y, lining					
A8610	SR8, From West, C	CH 4030 - 4035 = 1bay, lining	7d/wk-1a	5d	24-Nov-14 08	28-Nov-14 18	137d	SR8	From West, CH 4	1030 - 4035 = 1br	ay, lining					
A8615	SR8, From West, C	CH 4035 - 4040 = 1bay, lining	7d/wk-1a	5d	29-Nov-14 08	03-Dec-14 18	137d	I SR	B, From West, CH	4035 - 4040 = 1b	bay, lining					
A8620	SR8, From West, C	CH 4040 - 4045 = 1bay, lining	7d/wk-1a	5d	04-Dec-14 08	08-Dec-14 18	137d	I SF	8, From West, CH	1 4040 - 4045 = 1	bay, lining					
A8625	SR8, From West, C	CH 4045 - 4050 = 1bay, lining	7d/wk-1a	5d	09-Dec-14 08	13-Dec-14 18	137d	1 S	R8, From West, Ci	H 4045 - 4050 =	1bay, lining					
A8630	SR8, From West, C	CH 4050 - 4055 = 1bay, lining	7d/wk-1a	5d	14-Dec-14 08	18-Dec-14 18	137d		SR8, From West, C	CH 4050 - 4055 =	= 1bay, lining					
A8635	SR8, From West, C	CH 4055 - 4060 = 1bay, lining	7d/wk-1a	5d	19-Dec-14 08	23-Dec-14 18	137d		SR8, From West,	CH 4055 - 4060	= 1bay, lining					
A8640	SR8, From West, C	CH 4060 - 4065 = 1bay, lining	7d/wk-1a	5d	24-Dec-14 08	29-Dec-14 18	137d		SR8, From West,	I, CH 4060 - 4065	5 = 1bay, lining					
A8645	SR8, From West, C	CH 4065 - 4070 = 1bay, lining	7d/wk-1a	5d	30-Dec-14 08	04-Jan-15 18	137d		SR8, From Wes	st, CH 4065 - 401	70 = 1bay, lining					
A8647	SR8, From West, C	CH 4070 - 4075 = 1bay, lining	7d/wk-1a	5d	05-Jan-15 08	09-Jan-15 18	137d		SR8, From We	est, CH 4070 - 40	075 = 1bay, linin					
A8648	SR8, From West, C	CH 4075 - 4080 = 1bay, lining	7d/wk-1a	5d	10-Jan-15 08	14-Jan-15 18	137d		SR8, From W	Vest, CH 4075 - 4	1080 = 1bay, linir	ng				
A8649	SR8, From West, C	CH 4080 - 4085 = 1bay, lining	7d/wk-1a	5d	15-Jan-15 08	19-Jan-15 18	137d		SR8, From V	West, CH 4080 - 4	4085 = 1bay, lin	ing		1		
A8651	SR8, From West, C	CH 4085 - 4090 = 1bay, lining	7d/wk-1a	5d	20-Jan-15 08	24-Jan-15 18	137d		SR8, From	West, CH 4085 -	- 4090 = 1bay, li	gning				
A8652	SR8, From West, C	CH 4090 - 4095 = 1bay, lining	7d/wk-1a	5d	25-Jan-15 08	29-Jan-15 18	137d		SR8, From	n West, CH 4090	- 4095 = 1bay,	lining				
A8653	SR8, From West, C	CH 4095 - 4100 = 1bay, lining	7d/wk-1a	5d	30-Jan-15 08	03-Feb-15 18	137d		SR8, Fro	m West, CH 4095	5 - 4100 = 1bay	lining				
A8654	SR8, From West, C	CH 4100 - 4105 = 1bay, lining	7d/wk-1a	5d	04-Feb-15 08	08-Feb-15 18	137d		SR8, Fre	om West, CH 410	00 - 4105 = 1ba	, lining		1		
From East -	Base Slab (10m/bay	y, 10m separation with benching excavat	ion)	-									_			
A9775	SR8 From East, C	CH 4149.5- 4145 = 4.5m, base slab	7d/wk-1a	8d	02-Dec-14 08	09-Dec-14 18	Od	s s	R8 From East, CH	4 4149,5- 4145 =	4.5m, base slat	,				
A9780	SR8 From East, C	CH 4145 - 4135 = 10m/bay, base slab	7d/wk-1a	8d	10-Dec-14 08	17-Dec-14 18	Od		SR8 From East, C	CH 4145 - 4135 =	10m/bay, base	slab				
A9785	SR8 From East, C	CH 4135 - 4125 = 10m/bay, base slab	7d/wk-1a	8d	18-Dec-14 08	26-Dec-14 18	8d		SR8 From East,							i.
A9786	SR8 From East, C	CH 4125 - 4115 = 10m/bay, base slab	7d/wk-1a	8d	27-Dec-14 08	04-Jan-15 18	10d			a, CH 4125 - 411		E.				
From East -	Linung (Sm/bay, 10m	m separation willi base slab)									1					-
A9820	The second s	H 4149.5 - 4145 = 4.5m,1 bay, lining	7d/wk-1a	5d	18-Dec-14 08	22-Dec-14 18	Dd		From East, SR8 C	CH 4149 5 - 4145	= 4.5m 1 bay I	nind				
A9815		H 4145 - 4140 = 1bay, lining	7d/wk-1a		23-Dec-14 08	28-Dec-14 18	6d		From East, SR8							
A9810		CH 4140 - 4135 = 1bay, lining	7d/wk-1a	1	29-Dec-14 08	03-Jan-15 18	6d	1	From East, SR					1		
A9805		H 4135 - 4130= 1bay, lining	7d/wk-1a	1.1.1	04-Jan-15 08	08-Jan-15 18	6d		From East, SR							1
Conserved States	From Eday on o Cr	CLICE THE INSY MILLY	, univer la	50	01-040-10 00		WW I		- FIOIR Edou OR	0.51141554415	inelt minig	2.1	-	-	_	
-		8 of 18						-	Pro	epared by William	Caluza		_			
Actual L	ry Bar evel of Effort	and the second se			the second second second				Date	Revision	Checked	Approved				
Actual V		China S	State Constru	ction Eng	gineering (Hor	ig Kong) Ltd		26-	Sep 1st submiss	sion			-		- 39 / 3E Set \s	
	ing Work	Contract No. HY/2009/15 - Centra	al Wan Chai B	v Pass -	Tunnel (Caus	eway Bay Typ	hoon Shelter Sec	tion)			-	-	salies	中國連票工 CHINA STATE CONSTINUE		
	Remaining Work										-		No. of Lot of Lo	CHINA SIAR CONSTRUC	THUN ENGINEERING	OUCH RONG) []
			WORKS	ROGR	AMME REV	M		-			-					
Mileston	0															

ity ID	Activity Name		Calendar	Original	Start	Finish	Total		1.	-	2015	-		2016	
40870	From Fact ODA OT	00 4405 46 F.		Duration			Float	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
A9870	From East, SR8 CH 41	30 - 4125 = 1bay, lining	7d/wk-1a	5d	09-Jan-15 08	13-Jan-15 18	6d	1	From East, S	SR8 CH 4130 - 4	125 = 1bay, lining			1	
A9800	From East, SR8 CH 41	25 - 4120 = 1bay, lining	7d/wk-1a	5d	14-Jan-15 08	18-Jan-15 18	143d	1.1.1	From East,	SR8 CH 4125 - 4	120 = 1bay, lining				
A9860	From East, SR8 CH 41	20 - 4115 = 1bay, lining	7d/wk-1a	5d	19-Jan-15 08	23-Jan-15 18	143d		From East	SR8 CH 4120 -	4115 = 1bay, lining				
A9855	From East, SR8 CH 41	15 - 4110 = 1bay, lining	7d/wk-1a	5d	24-Jan-15 08	28-Jan-15 18	143d		1 From Eas	st, SR8 CH 4115	4110 = 1bay, lining				
A9850	From East, SR8 CH 41	10 - 4105 = 1bay, lining	7d/wk-1a	5d	29-Jan-15 08	02-Feb-15 18	143d	1	1.00007	1	- 4105 = 1bay, lining				
OHVD(10m	n/bay) / Utility Trough				1.000 0.0			1			in the second se		-		
A8570	SR8 Tunnel OHVD and	utility trough =, 167= 17 bays @	7d/wk-1a	120d	09-Feb-15 08	13-Jun-15 18	137d		-	-	SR8 Tunnel OHVD an	d utility troug	b - 167- 17 hour 6	0 10-the @ 7/the	
EB Outer Tu	10m/bay @ 7d/bay		1.54125.5			The sector of				-	and runner of the un	a adiny troag	IT - TOT - TY Days (g Torribay @ Torbay	
From West							_	1	_			_			
_		A8				_		0		1					
		n, 20m separation with heading)							1.1	1					
A9550	EB, Outer Bench From	West, CH 4035- 4045 = 10m	7d/wk-1a	30d	07-Aug-14 08 A	20-Oct-14 18	135d	EB, Outer I	Bench From West,	CH 4035- 4045	= 10m				
A9555	EB, Outer Bench From	West, CH 4045- 4055 = 10m (2d/m)	7d/wk-1a	20d	20-Oct-14 08	08-Nov-14 18	135d	EB, Ou	ter Bench From W	Vest, CH 4045- 40	955 = 10m (2d/m)				
A9560	EB, Outer Bench From	West, CH 4055- 4065 = 10m (2d/m)	7d/wk-1a	20d	09-Nov-14 08	28-Nov-14 18	135d	EB.	Outer Bench From	m West, CH 4055	5- 4065 = 10m (2d/m)				
A9565	EB, Outer Bench From	West, CH 4065- 4075 = 10m (2d/m)	7d/wk-1a	20d	29-Nov-14 08	18-Dec-14 18	135d	-	EB, Outer Bench	From West, CH	4065- 4075 = 10m (2d/i	n)			
A9520	EB, Outer Bench From	West, CH 4075- 4085 = 10m (2d/m)	7d/wk-1a	20d	19-Dec-14 08	09-Jan-15 18	135d		EB, Outer Be	ench From West,	CH 4075- 4085 = 10m	(2d/m)			
A9545	EB, Outer Bench From	West, CH 4085- 4095 = 10m 1.5d/m)	7d/wk-1a	15d	10-Jan-15 08	24-Jan-15 18	135d		EB, Outer	Bench From We	st, CH 4085- 4095 = 10	Im 1.5d/m)			
From East ((TS4)						-			1			-		
Outer Ben	ch Excavation (1.5d-2d/m	, 20m separation with heading)		-			-	-		1			_		
A9605		East, CH 4147.5 - 4145 = 2.5m	7d/wk-1a	30d	20-Oct-14 08*	18-Nov-14 18	120d			1					
									uter Bench From						
A9610		East, CH 4145- 4135 = 10m (2d/m)	7d/wk-1a	20d	19-Nov-14 08	08-Dec-14 18	120d	- E	B, Outer Bench Fr	rom East, CH 414	5+ 4135 = 10m (2d/m)				
A9615	EB, Outer Bench From	East, CH 4135- 4125 = 10m (2d/m)	7d/wk-ta	20d	09-Dec-14 08	29-Dec-14 18	120d		EB, Outer Bend	ch From East, CH	4135- 4125 = 10m (2d	/m)			
A9620	EB, Outer Bench From	East, CH 4125- 4115 = 10m (2d/m)	7d/wk-1a	20d	30-Dec-14 08	19-Jan-15 18	120d		EB, Outer B	Bench From East	CH 4125- 4115 = 10m	(2d/m)			
A9625	EB, Outer Bench From	East, CH 4115- 4105 = 10m (2d/m)	7d/wk-1a	20d	20-Jan-15 08	08-Feb-15 18	120d		EB, Ou	iter Bench From I	East, CH 4115- 4105 =	10m (2d/m)			
A9630	EB, Outer Bench From	East, CH 4105- 4095 = 10m (1.5d/m)	7d/wk-1a	15d	09-Feb-15 08	26-Feb-15 18	120d		EB,	Outer Bench Fro	om East, CH 4105- 409	5 = 10m (1.5	id/m)		
EB (Inner Tu	unnel Excavation + Linin	ng)													
From West	(TPCWAE)							1		1					
Inner Head	ding Excavation (2d/m, 24	hiday work shift, 7d/week, no work on	statutory holi	day)		-	-	1		1			-		
A8805	EB,Inner Heading From	West, CH 3992- 4005 = 13m @3d/m	7d/wk-1a	39d	29-Sep-14 08	07-Nov-14 18	Od	EB.Inne	r Heading From V	Vest, CH 3992- 4	005 = 13m @3d/m				
	EB,Inner Heading From	West, CH 4005- 4015 = 10m @2d/m	7d/wk-1a	20d	08-Nov-14 08	27-Nov-14 18	Od			1)5- 4015 = 10m @2d/m				
A8815									1	1	2	-		L	
	lo -	10							Date	epared by Willian Revision	Caluza Checked Approv	/ed			
Summa															
Summa	Level of Effort	China St	ate Construc	tion Eng	gineering (Hon	g Kong) Ltd		26	-Sep 1st submis			-			-
Summa Actual L	Level of Effort Work						hoon Shel	-	-Sep 1st submis			PDC		工程(吾港)家	
Summa Actual I Actual \ Remain	Level of Effort Work	China St ontract No, HY/2009/15 - Central					hoon Shel	-	-Sep 1st submis			CSDEc		工程(吾·苯)寻 RUCTION ENGINEERING @	

ID	Activity Name	Calendar	Original Duration	Start	Finish	Total Float	2015 2016
A8820	EB,Inner Heading From West, , CH 4015- 4025 = 10m @2d/m	7d/wk-1a		28-Nov-14 08	17-Dec-14 18	0d	Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Image: EB,Inner Heading From West, , CH 4015- 4025 = 10m @2d/m EB,Inner Heading From West, , CH 4015- 4025 = 10m @2d/m Q3 Q4 Q1 Q2 Q3 Q3 Q4 Q4
A8780	EB,Inner Heading From West, CH 4025- 4035 = 10m @2d/m	7d/wk-1a	20d	18-Dec-14 08	08-Jan-15 18	Od	
A8810	EB,Inner Heading From West, , CH 4035- 4045 = 10m @2d/m	7d/wk-1a					EBInner Heading From West, CH 4025- 4035 = 10m @2d/m
A8785	EB,Inner Heading From West, , CH 4045- 4055 = 10m @2d/m	_	20d	09-Jan-15 08	28-Jan-15 18	Od	EB,Inner Heading From West, CH 4035- 4045 = 10m @2d/m
A8790		7d/wk-1a		29-Jan-15 08	17-Feb-15 18	Od	EB,Inner Heading From West, CH 4045- 4055 = 10m @2d/m
	EB,Inner Heading From West, CH 4055- 4065 = 10m @ 2d/m	7d/wk-1a	20d	18-Feb-15 08	12-Mar-15 18	0d	EB.Inner Heading From West, CH 4055- 4065 = 10m @ 2d/m
A8795	EB,Inner Heading From West, , CH 4065- 4075 = 10m, @ 2d/m	7d/wk-1a	20d	13-Mar-15 08	01-Apr-15 18	0d	EB,Inner Heading From West, , CH 4065- 4075 = 10m, @ 2d/m
A8800	EB,Inner Heading From West, CH 4075- 4085 = 10m @ 2d/m	7d/wk-1a	20d	02-Apr-15 08	22-Apr-15 18	0d	EB.Inner Heading From West, CH 4075- 4085 = 10m @ 2d/m
A8825	EB,Inner Heading From West, CH 4085- 4095 = 10m @ 2d/m	7d/wk-1a	20d	23-Apr-15 08	13-May-15 18	0d	EB,Inner Heading From West, CH 4085- 4095 = 10m @ 2d/m
Inner Bend	ch Excavation (1.5-2d/m, 20m separation with heading)				-		
A8765	EB, Inner Bench From West, CH 3992- 4005 = 13m (2d/m)	7d/wk-1a	26d	DB-Nov-14 08	03-Dec-14 18	23d	EB Inner Bench From West, CH 3992-4005 = 13m (2d/m)
A8770	EB, Inner Bench From West,CH 4005- 4015 = 10m	7d/wk-1a	15d	18-Dec-14 08	03-Jan-15 18	9d	EB, Inner Bench From West, CH 4005- 4015 = 10m;
A8775	EB, Inner Bench From West,CH 4015- 4025 = 10m	7d/wk-1a	15d	09-Jan-15 08	23-Jan-15 18	4d	EB, Inner Bench From West, CH 4015- 4025 = 10m
A8735	EB, Inner Bench From West,CH 4025- 4035 = 10m	7d/wk-1a	15d	29-Jan-15 08	12-Feb-15 18	14d	EB, Inner Bench From West,CH 4025- 4035 ≈ 10m
A8740	EB, Inner Bench From West,CH 4035- 4045 = 10m	7d/wk-1a	15d	18-Feb-15 08	07-Mar-15 18	11d	EB, Inner Bench From West,CH 4035- 4045 = 10m
A8745	EB, Inner Bench From West,CH 4045- 4055 = 10m	7d/wk-1a	15d	13-Mar-15 08	27-Mar-15 18	6d	EB, Inner Bench From West, CH 40/45- 40/55 = 10m
A8750	EB, Inner Bench From West,CH 4055- 4065 = 10m	7d/wk-1a	15d	02-Apr-15 08	17-Apr-15 18	1d	EB, Inner Bench From West,CH 4055- 4065 = 10m
A8755	EB, Inner Bench From West, CH 4065- 4075 = 10m	7d/wk-1a	15d	18-Apr-15 08	03-May-15 18	1d	EB, Inner, Bench From West, CH 4065-4075 = 10m
A8760	EB. Inner Bench From West,CH 4075- 4085 = 10m	7d/wk-1a	15d	05-May-15 08	19-May-15 18	Od	
A8761	EB, Inner Bench From West, CH 4085- 4095 = 10m	7d/wk-1a	15d	20-May-15 08	03-Jun-15 18	Od	EB, Inner Bench From West,CH 4075- 4085 = 10m
rom East (TS4)						EB: Inner Bench From West, CH 4085- 4095 = 10m
Inner Head	ing Excavation (3d/m, 24h/day work shift, 7d/week, no work on s	tatutoru heli	laul		_	_	
A8835	EB Inner Heading From East, CH 4147.5 to 4145 = 2.5m, @			00 1 45 00			
	3d/m	7d/wk-1a	8d	06-Jan-15 08	13-Jan-15 18	Od	EB,Inner Heading From East, CH 4147,5 to 4145 = 2,5m, @ 3d/m
A8850	EB,Inner Heading From East, CH 4145- 4135 = 10m, @ 3d/m	7d/wk-1a	30d	14-Jan-15 08	12-Feb-15 18	Od	EB,Inner Heading From East, CH 4145- 4135 = 10m, @ 3d/m
A8830	EB,Inner Heading From East, CH 4135- 4125 = 10m @2d/m	7d/wk-1a	20d	13-Feb-15 08	07-Mar-15 18	Dd	EB,Inner Heading From East, CH 4135- 4125 = 10m @2c/m
A8840	EB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m	7d/wk-1a	20d	08-Mar-15 08	27-Mar-15 18	Od	EB.Inner Heading From East, CH 4125- 4115 = 10m @2d/m
A9910	EB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m	7d/wk-1a	20d	28-Mar-15 08	17-Apr-15 18	Dd	EB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m
A8845	EB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m	7d/wk-1a	20d	18-Apr-15 08	08-May-15 18	Dd	EB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m
nner Benc	h Excavation (1.5d-2d/m, 20m separation with heading)			-			
A8860	EB,Inner Bench From East, CH 4147.5 - 4145 = 2.5m	7d/wk-1a	4d	08-Mar-15 08	11-Mar-15 18	11d	EB,Inner Bench From East, CH 4147.5 - 4145 = 2.5m
Summa	ry Bar 10 of 18				-P		Prepared by William Caluza
	evel of Effort China Stat	e Construc	tion Eng	ineering (Hon	a Kona) Ltd		Date Revision Checked Approved
Actual V	VORK						26-Seption 1st submission 中國建築工程(香港) 介限公司
Remain	ing Work Contract No. HY/2009/15 - Central W Remaining Work	an Chai By	Pass -	funnel (Cause	eway Bay Typh	oon Shelter	Section) CHINA STATE CONSTRUCTION BIGINEERING CHONG KONG UTD

and the second second

A8865 A8870 A8855 A8875 A8915 Tunnel Lining From West E A8900 A8890	EB,Inner Bench From East, CH 4145- 4135 = 10m EB,Inner Bench From East, CH 4135- 4125 = 10m EB,Inner Bench From East, CH 4125- 4115 = 10m EB,Inner Bench From East, CH 4115- 4105 = 10m EB,Inner Bench From East, CH 4105- 4095 = 10m	7d/wk-1a 7d/wk-1a 7d/wk-1a 7d/wk-1a	Duration 15d 15d 15d	12-Mar-15 08 28-Mar-15 08	26-Mar-15 18	Float 11d	Q4	Q1	Q2 EB,Inner Ben	Q3	Q4	Q1	2016 Q2	Q3
A8870 A8855 A8875 A9915 Tunnel Lining From West E A8900	EB,Inner Bench From East, CH 4135- 4125 = 10m EB,Inner Bench From East, CH 4125- 4115 = 10m EB,Inner Bench From East, CH 4115- 4105 = 10m EB,Inner Bench From East, CH 4105- 4095 = 10m	7d/wk-1a 7d/wk-1a	15d	1	26-Mar-15 18	110		A DESCRIPTION OF A DESC	EB,Inner Ben	th From East CH 4	145 4135 - 100			
A8855 A8875 A9915 Tunnel Lining From West E A8900	EB,Inner Bench From East, CH 4125- 4115 = 10m EB,Inner Bench From East, CH 4115- 4105 = 10m EB,Inner Bench From East, CH 4105- 4095 = 10m	7d/wk-1a		28-Mar-15 08				1111		ant rom cast, arra	140-4100-100			
A8875 A9915 Tunnel Lining From West E A8900	EB,Inner Bench From East, CH 4115- 4105 = 10m EB,Inner Bench From East, CH 4105- 4095 = 10m	- COLLAR	15d	and the second sec	12-Apr-15 18	10d			EB,Inner E	ench From East, C	H 4135- 4125 = 1	IOm		
A9915 Tunnel Lining From West E A8900	EB,Inner Bench From East, CH 4105- 4095 = 10m	7d/wk-1a		18-Apr-15 08	03-May-15 18	5d			EB,Inr	er Bench From Ea	st, CH 4125- 411	5 = 10m		
Tunnel Lining From West E A8900			15d	09-May-15 08	23-May-15 18	Od			E	Inner Bench From	East, CH 4115-	4105 = 10m		
From West E		7d/wk-1a	16d	24-May-15 08	08-Jun-15 18	Od			+	EB,Inner Bench Fr	1			
A8900	g Works	-							-	and the second se		1000 - 1011		
A8900	Base Slab (10m/bay, 10m separation with benching excavat	ion	_						-		1	-	1	-
		iony						1.0						
A8890	EB From West, Base Slab CH 3990 - 3995 = 1 bay	7d/wk-1a	10d	04-Dec-14 08	13-Dec-14 18	33d		EB From West,	Base Slab CH 399	0 - 3995 = 1 bay				
	EB From West, Base Slab CH 3995 - 4005 = 10m/bay	7d/wk-1a	10d	04-Jan-15 08	13-Jan-15 18	14d		EB From	West, Base Slab C	H 3995 - 4005 = 10	m/bay			
A8905	EB From West, Base Slab CH 4005 - 4015 = 10m/bay	7d/wk-1a	10d	24-Jan-15 08	02-Feb-15 18	4d		EB Fr	om West, Base Sla	ab CH 4005 - 4015	= 10m/bay			
A8910	EB From West, Base Slab CH 4015 - 4025 = 10m/bay	7d/wk-1a	10d	13-Feb-15 08	25-Feb-15 18	14d			B From West, Bas	e Slab CH 4015 - 4	025 = 10m/bay			
A8915	EB From West, Base Slab CH 4025 - 4035 = 10m/bay	7d/wk-1a	10d	08-Mar-15 08	17-Mar-15 18	12d			EB From West,	Base Slab CH 402	5 - 4035 = 10m/b	av		
A8920	EB From West, Base Slab CH 4035 - 4045 = 10m/bay	7d/wk-1a	10d	28-Mar-15 08	07-Apr-15 18	8d				est, Base Slab CH		2		
A8925	EB From West, Base Slab CH 4045 - 4055 = 10m/bay	7d/wk-1a	10d	18-Apr-15 08	27-Apr-15 18	4d			1	n West, Base Slab		and a second		
A8930	EB From West, Base Slab CH 4055 - 4065 = 10m/bay	7d/wk-1a	10d	04-May-15 08	13-May-15 18	5d								
A8880	EB From West, Base Slab CH 4065 - 4075 = 10m/bay	7d/wk-1a	104						-	rom West, Base Sl				
A8885				20-May-15 08	29-May-15 18	5d			B E	B From West, Base	Slab CH 4065 -	4075 = 10m/bay		
	EB From West, Base Slab CH 4075 - 4085 = 10m/bay	7d/wk-1a	10d	04-Jun-15 08	13-Jun-15 18	0d				EB From West, B	ase Slab CH 407	5 - 4085 = 10m/bay		
A8895	EB From West, Base Slab CH 4085 - 4095 = 10m/bay	7d/wk-1a	10d	14-Jun-15 08	24-Jun-15 18	Od			1	EB From West,	Base Slab CH 4	085 - 4095 = 10m/bay		
From East B	ase Slab (10m/bay, 10m separation with benching excavation	on)						1		1	1			
A9905	EB From East, Base Slab CH 4149.5 - 4145 = 4.5m	7d/wk-1a	10d	13-Apr-15 08	22-Apr-15 18	26d			EB From	East, Base Slab Cl	H 4149.5 - 4145	= 4.5m		
A9900	EB From East, Base Slab CH 4145 - 4135 = 10m/bay	7d/wk-1a	10d	04-May-15 08	13-May-15 18	16d			EB F	rom East, Base Sla	b CH 4145 - 413	5 = 10m/bay		
A9895	EB From East, Base Slab CH 4135 - 4125 = 10m/bay	7d/wk-1a	10d	24-May-15 08	02-Jun-15 18	6d				B From East, Base	Slab CH 4135 -	4125 = 10m/bay		
A9890	EB From East, Base Slab CH 4125 - 4115 = 10m/bay	7d/wk-1a	10d	09-Jun-15 08	18-Jun-15 18	Od			1	EB From East, B	ase Slab CH 412	5 - 4115 = 10m/bay		
A9885	EB From East, Base Slab CH 4115 - 4105 = 10m/bay	7d/wk-1a	10d	19-Jun-15 08	29-Jun-15 18	Dd			1	1		115 - 4105 = 10m/bay		
A9880	EB From East, Base Slab CH 4105 - 4095 = 10m/bay	7d/wk-1a	10d	30-Jun-15 08	10-Jul-15 18	Dd				1	1	4105 - 4095 = 10m/t	E	
Lining (5m/h	ay, 15m separation with base stab)				1				-	CO FIOM Ca		4105 - 4095 = 10000	ау	
									1	1	d			
A9065	EB From West, Lining CH 3990 - 3995 = 1bay	7d/wk-1a	10d	03-Feb-15 08	12-Feb-15 18	4d		EB F	rom West, Lining	CH 3990 - 3995 = 1	Ibay			
A9005	EB From West, Lining CH 3995 - 4000 = 1bay	7d/wk-1a	10d	13-Feb-15 08	25-Feb-15 18	4d		100 E	B From West, Lini	ng CH 3995 - 4000	= 1bay			
A9090	EB From West, Lining CH 4000 - 4005 = 1bay	7d/wk-1a	10d	26-Feb-15 08	07-Mar-15 18	4d			EB From West, Li	ning CH 4000 - 400	05 = 1bay			
Summary	7Bar 11 of 18			-		3			Prepared by Willia	m Caluza	-			
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	vel of Effort			and a state				Date	Revision	Checked A	oproved			
Actual We	China	State Construc	tion Eng	ineering (Hon	g Kong) Ltd		26-	-Sep 1st subr	mission				-	
Remainin		al Wan Chai B	Pass -	Tunnel (Cause	way Bay Typh	oon Shelter	Section)				- CIL	中國運業2		
	emaining Work	a. man ondi Dy		anner (odusi	and bay type	oon oneiter	Jection				PAGED.	CHINA STATE CONSTRU	CTION ENGINEERING (IONG KONC
Milestone		WORKS P	ROGR	AMME REV.	M		-							
 Milestone 		WORKSP	RUGR	AMME REV.	IVI									

Activity Na	lame	Calendar	Original	Start	Finish	Total			201	15			2016	
			Duration			Float	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
50 EB From V	West, Lining CH 4005 - 4010 = 1bay	7d/wk-1a	10d	08-Mar-15 08	17-Mar-15 18	4d			EB From West, Linir	ng CH 4005 - 4	1010 = 1bay			
55 EB From V	West, Lining CH 4010 - 4015 = 1bay	7d/wk-1a	10d	18-Mar-15 08	27-Mar-15 18	4d			EB From West, Lir	ning CH 4010	- 4015 = 1bay			
60 EB From V	West, Lining CH 4015 - 4020 = 1bay	7d/wk-1a	10d	26-Mar-15 08	05-Apr-15 18	4d		1 3	EB From West	Lining CH 401	5 - 4020 = 1bay			
70 EB From V	1 West, Lining CH 4020 - 4025 = 1bay	7d/wk-1a	10d	03-Apr-15 08	13-Apr-15 18	4d			EB From West	t, Lining CH 40	020 - 4025 = 1bay			
75 EB From \	n West, Lining CH 4025 - 4030 = 1bay	7d/wk-1a	10d	12-Apr-15 08	21-Apr-15 18	4d			EB From We	est, Lining CH	4025 - 4030 = 1bay			
80 EB From \	1 West, Lining CH 4030 - 4035 = 1bay	7d/wk-1a	10d	20-Apr-15 08	29-Apr-15 18	4d			EB From W	Vest, Lining CH	4 4030 - 4035 = 1 bay	,		
85 EB From \	n West, Lining CH 4035 - 4040 = 1bay	7d/wk-1a	10d	28-Apr-15 08	08-May-15 18	4d			EB From	West, Lining C	CH 4035 - 4040 = 1ba	ay		
15 EB From V	n West, Lining CH 4040 - 4045 = 1bay	7d/wk-1a	10d	07-May-15 08	16-May-15 18	4d	5		EB Fron	m West, Lining	CH 4040 - 4045 = 1	bay		
20 EB From \	n West, Lining CH 4045 - 4050 = 1bay	7d/wk-1a	10d	15-May-15 08	24-May-15 18	4d			EB Fre	om West, Linin	g CH 4045 - 4050 =	1bay		
25 EB From \	n West, Lining CH 4050 - 4055 = 1bay	7d/wk-1a	10d	23-May-15 08	01-Jun-15 18	4d			EB F	From West, Lin	ing CH 4050 - 4055	= 1bay		
30 EB From \	n West, Lining CH 4055 - 4060 = 1bay	7d/wk-1a	10d	31-May-15 08	09-Jun-15 18	4d			EB	From West, L	ining CH 4055 - 406	0 = 1bay		
35 EB From	n West, Lining CH 4060 - 4065 = 1bay	7d/wk-1a	10d	07-Jun-15 08	16-Jun-15 18	4d			• E	B From West,	Lining CH 4060 - 40	065 = 1bay		
140 EB From	n West, Lining CH 4065 - 4070 = 1bay	7d/wk-1a	10d	14-Jun-15 08	24-Jun-15 18	4d				EB From West	t, Lining CH 4065 - 4	4070 = 1bay		
45 EB From	n West, Lining CH 4070 - 4075 = 1bay	7d/wk-1a	10d	25-Jun-15 08	05-Jul-15 18	Od			1 -	EB From W	est, Lining CH 4070	- 4075 = 1bay		
55 EB From	n West, Lining CH 4075 - 4080 = 1bay	7d/wk-1a	10d	30-Jun-15 08	10-Jul-15 18	Od			1	EB From W	Vest, Lining CH 4075	5 - 4080 = 1bay		
60 EB From	n West, Lining CH 4080 - 4085 = 1bay	7d/wk-1a	5d	11-Jul-15 08	15-Jul-15 18	Od				EB From	West, Lining CH 408	30 - 4085 = 1bay		
70 EB From	n West, Lining CH 4085 - 4090 = 1bay	7d/wk-1a	5d	16-Jul-15 08	20-Jul-15 18	0d				EB From	West, Lining CH 40	185 - 4090 = 1bay		
75 EB From	n West, Lining CH 4090 - 4095 = 1bay	7d/wk-1a	5d	21-Jul-15 08	25-Jul-15 18	Od				EB From	n West, Lining CH 4	090 - 4095 = 1bay		
80 EB From	n West, Lining CH 4095 - 4100 = 1bay	7d/wk-1a	5d	26-Jul-15 08	30-Jul-15 18	Dd				EB Fro	m West, Lining CH 4	4095 - 4100 = 1bay		
85 EB From	n West, Lining CH 4100 - 4105 = 1bay	7d/wk-1a	5d	31-Jul-15 08	04-Aug-15 18	Dd				EB Fr	om:West, Lining CH	4100 - 4105 = 1bay		
990 EB From	n West, Lining CH 4105 - 4110 = 1bay	7d/wk-1a	5d	05-Aug-15 08	09-Aug-15 18	Dd				EB F	rom West, Lining Cl	H 4105 - 4110 = 1ba	x	
995 EB From	n West, Lining CH 4110 - 4115 = 1bay	7d/wk-1a	5d	10-Aug-15 08	14-Aug-15 18	0d	ł			E EB	From West, Lining C	CH 4110 - 4115 = 16	у	
000 EB From	n West, Lining CH 4115 - 4120 = 1bay	7d/wk-1a	5d	15-Aug-15 08	19-Aug-15 18	Dd				EB	From West, Lining	CH 4115 - 4120 = 1	ay	
010 EB From	n West, Lining CH 4120 - 4125 = 1bay	7d/wk-1a	5d	20-Aug-15 08	24-Aug-15 18	Od				8 E	B From West, Lining	CH 4120 - 4125 =	bay	
965 EB From	n West, Lining CH 4125 - 4130 = 1bay	7d/wk-1a	5d	25-Aug-15 08	29-Aug-15 18	Dd			1		EB From West, Lining	CH 4125 - 4130 =	1bay	
	m West, Lining CH 4130 - 4135 = 1bay	7d/wk-1a	5d	30-Aug-15 08	03-Sep-15 18	Dd	E.				EB From West, Linin	ng CH 4130 - 4135	1bay	
	m West, Lining CH 4135 - 4140 = 1bay	7d/wk-1a	5d	04-Sep-15 08	08-Sep-15 18	Od					EB From West, Lin	ing CH 4135 - 4140	= 1bay	
	m West, Lining CH 4140 - 4145 = 1bay	7d/wk-1a	5d	09-Sep-15 08	13-Sep-15 18	Od					EB From West, Lir	1		
Con Con Con Con	m West, Lining CH 4145 - 4149.5 = 4.5m	7d/wk-1a		14-Sep-15 08	18-Sep-15 18	Dd					EB From West, L			
		1		11.000		1-244			Prepared by William C					
Summary Bar Actual Level of Effort Actual Work Remaining Work Critical Remaining W	Contract No. HY/2009/15 - Cer		y Pass	- Tunnel (Cau	seway Bay Typ	boon Shelter	Sec. Sec. 4	Date 26-Sep 1st subm	Revision	Checked	Approved	中國連禁工 CHINA STATE CONSTRU		
Actual Work Remaining Work	Contract No. HY/2009/15 - Cer	ntral Wan Chai B	y Pass		seway Bay Typ	hoon Shelter	Sec. Sec. 4	26-Sep 1st subm	nission		eSDEc			

ID	Activity Name		Calendar	Original Duration	Start	Finish	Total Float		a second second		2015			2016	
OHVD(10m/	(bay) / Utility Troug	ah				-	r Iwas	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
											1 1			1	
A9095	10m/bay @ 7d/ba	HVD and utility trough =, 167= 17 bays @ ay	7d/wk-1a	120d	03-Jul-15 08	02-Nov-15 18	Od				-	EB Fr	om West OHVD an	d utility trough =, 16	7= 17 bays @ 10
B Outer Iu	innel Excavation									2	1		-	1	
rom West (1	TPCWAE)									1	-		-		
Outer Headi	ing Excavation (2d	ilm, 24h/day work shift, 7d/week, no work or	statutory hol	iday)	-	-	-		-				-	1	-
A9651	WB, Outer Headi 2d/m	ing From West, CH 4085- 4092.5 = 7,5m @	7d/wk-1a	15d	13-Sep-14 08 A	30-Sep-14 18	163d	WB, Outer He	ading From West,	CH 4085- 4092.5	= 7.5m @ 2d/m			ł	
Outer Bench	h Excavation (1.5d	-2d/m, 20m separation with heading)			1									-	-
A9680	WB, Outer Bench	h From West, CH 4025- 4035 = 10m	7d/wk-1a	15d	12-Oct-14 08	26-Oct-14 18	163d	WB, Out	er Bench From We	est, CH 4025- 403	5 = 10m				
A9665	WB, Outer Bench	h From West, CH 4035- 4045 = 10m	7d/wk-1a	15d	27-Oct-14 08	10-Nov-14 18	163d	wb, c	Outer Bench From	West, CH 4035- 4	1045 = 10m				
A9670	WB, Outer Bench	h From West, CH 4045- 4055 = 10m	7d/wk-1a	15d	11-Nov-14 08	25-Nov-14 18	163d	we	B, Outer Bench Fro	om West, CH 404	5- 4055 = 10m			1	
A9675	WB, Outer Bench	h From West, CH 4055- 4065 = 10m	7d/wk-1a	15d	26-Nov-14 08	10-Dec-14 18	163d	-	WB, Outer Bench	From West, CH 4	055- 4065 = 10m			1	
A9700	WB, Outer Bench	n From West, CH 4065- 4075 = 10m	7d/wk-1a	15d	11-Dec-14 08	26-Dec-14 18	163d		WB, Outer Ben	ch From West, Cl	H 4065- 4075 = 10m				
A9701	WB, Outer Bench	n From West, CH 4075- 4082.5 = 7.5m	7d/wk-1a	15d	27-Dec-14 08	11-Jan-15 18	163d		WB, Outer B	Bench From West	CH 4075- 4082.5 = 7	.5m		1	
rom East (T	rs4)			••••••						1			-	-	
outer Headi	ing Excavation (2d	i/m, 24h/day work shift, 7d/week, no work or	statutory hol	iday)				1						-	
A9730	WB, Outer Headi @2d/m	ing From East, CH 4105- 4092.5 = 12.5m	7d/wk-1a	25d	30-Aug-14 08 A	30-Sep-14 18	168d	WB, Outer He	ading From East, C	CH 4105- 4092.5	= 12.5m @2d/m			1	
uter Bench	0	-2d/m, 20m separation with heading)	ang talan mananana da		dumun and a	- diaman da - a - a - a									
A9740	WB, Outer Bench	n From East, CH 4136- 4135 = 1m	7d/wk-1a	2d	12-Oct-14 08	13-Oct-14 18	168d	WB, Outer	Bench From East,	CH 4136- 4135 =	1m				
A9770	WB, Outer Bench	n From East, CH 4135- 4125 = 10m	7d/wk-1a	15d	14-Oct-14 08	28-Oct-14 18	168d	WB, Out	er Bench From Ea	st. CH 4135- 412	5 = 10m				
A9745	WB, Outer Bench	n From East, CH 4125- 4115 = 10m	7d/wk-1a	15d	28-Oct-14 08	11-Nov-14 18	168d	we, c	Outer Bench From	East, CH 4125- 4	115 = 10m				
A9750	WB, Outer Bench	n From East, CH 4115- 4105 = 10m	7d/wk-1a	15d	11-Nov-14 08	25-Nov-14 18	168d		3, Outer Bench Fro						
A9755	WB, Outer Bench	r From East, CH 4105- 4095 = 10m	7d/wk-1a	15d	26-Nov-14 08	10-Dec-14 18	168d	1 5.5	WB, Outer Bench I						
A9760	WB, Outer Bench	From East, CH 4095- 4082.5 = 12.5m	7d/wk-1a	25d	11-Dec-14 08	06-Jan-15 18	168d	1.1	1	B - 5 - 2 - 2	CH 4095- 4082.5 = 12.5	5m			0
3 (Inner Tu	nnel Excavation +	+ Lining)						1				200		3	
rom West (T								-	-	1				1	
		id/m, 24h/day work shift, 7d/week, no work o	a ctatuton/ha	lidaul				1		1					
A9130		g From West, CH 3993- 4005 = 12m @3d/m	7d/wk-1a	50d	29-Sep-14 08	18-Nov-14 18	04		and the state of the						
A9135		g From West, CH 4005- 4015 = 10m @2d/m	7d/wk-1a				b0	1			- 4005 = 12m @3d/m				
A9140	The second	g From West, CH 4005- 4015 = 10m @2d/m		20d	19-Nov-14 08	08-Dec-14 18	b0	1			005- 4015 = 10m @2d/			4 *	
	Arbinner Heading		7d/wk-1a	20d	09-Dec-14 08	29-Dec-14 18	0d		VVB,Inner Head	ing From West, C	CH 4015- 4025 = 10m (@2d/m			
Summary Actual Le Actual W Remainin	evel of Effort /ork	13 of 18 China Sta Contract No. HY/2009/15 - Central			jineering (Hon Tunnel (Caus		noon She	20	Pr Date 6-Sep 1st submit	repared by William Revision ssion	Caluza Checked Approv	ved		工程(· 来); RUCTION ENGINEERING	
 Critical Ri Milestone 	temaining Work e				AMME REV			-				_	CHINA SIALE COASI	ACCINENT ENGINEERING	anonia konta LID.

y ID	Activity Name	Calendar	Original	Start	Finish	Total			2	015			2016	
A9100	WB,Inner Heading From West, CH 4025- 4035 = 10m @2d/m	244-4-4	Duration	20 Dec 11 00	10 1-2 - 2 - 2	Float	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
	Wb, inner Heading From West, CH 4025- 4035 = 10m @20m	7d/wk-1a	20d	30-Dec-14 08	19-Jan-15 18	Od		WB,Inne	Heading From Wes	st, CH 4025- 4035	= 10m @2d/m	-		
A9105	WB,Inner Heading From West, CH 4035- 4045 = 10m @2d/m	7d/wk-1a	20d	20-Jan-15 08	08-Feb-15 18	Od		WB,I	nner Heading From	West, CH 4035- 4	045 = 10m @20	l/m		
A9110	WB,Inner Heading From West, CH 4045- 4055 = 10m @2d/m	7d/wk-1a	20d	09-Feb-15 08	03-Mar-15 18	Od			WB,Inner Heading Fi	rom West, CH 40	45- 4055 = 10m	@2d/m		
A9115	WB,Inner Heading From West, CH 4055- 4065 = 10m @ 2d/m	7d/wk-1a	20d	04-Mar-15 08	23-Mar-15 18	Od			WB,Inner Headin	ng From West, CH	4055- 4065 = 1	0m @ 2d/m		
A9120	WB,Inner Heading From West, CH 4065- 4075 = 10m, @ 2d/m	7d/wk-1a	20d	24-Mar-15 08	13-Apr-15 18	Od			WB,Inner He	ading From West	CH 4065- 407	5 = 10m, @ 2d/m		
A9125	WB,Inner Heading From West, CH 4075- 4085 = 10m @ 2d/m	7d/wk-1a	20d	14-Apr-15 08	04-May-15 18	Od			1	1	1	4085 = 10m @ 2d/m		
Inner Bent	ch Excavation (1.5d-2d/m, 20m separation with heading)			land and				-			1			
A9180	WB.Inner Bench From West, CH 3993- 4005 = 12m	7dbd.de	104	20 Dec 14 08	17 144 15 10	074		L		Lean and				
		7d/wk-1a	18d	30-Dec-14 08	17-Jan-15 18	27d		WB,Inner	Bench From West,	CH 3993- 4005 =	12m			
A9205	WB,Inner Bench From West, CH 4005- 4015 = 10m	7d/wk-1a	15d	20-Jan-15 08	03-Feb-15 18	25d		WB,In	ner Bench From We	est, CH 4005- 401	5 = 10m			
A9190	WB,Inner Bench From West, CH 4015- 4025 = 10m	7d/wk-1a	15d	09-Feb-15 08	26-Feb-15 18	20d		💷 V	/B)nner Bench Fron	n West, CH 4015-	4025 = 10m			
A9185	WB,Inner Bench From West, CH 4025- 4035 = 10m	7d/wk-1a	15d	04-Mar-15 08	18-Mar-15 18	15d			WB,Inner Bench F	From West, CH 40	025- 4035 = 10n	n		
A9155	WB,Inner Bench From West, CH 4035- 4045 = 10m	7d/wk-1a	15d	24-Mar-15 08	08-Apr-15 18	10d			WB,Inner Ber	nch From West, C	H 4035- 4045 =	10m		
A9160	WB,Inner Bench From West, CH 4045- 4055 = 10m	7d/wk-1a	15d	14-Apr-15 08	28-Apr-15 18	5d			WB,Inner	Bench From Wes	st; CH 4045- 40	55 = 10m		
A9165	WB,Inner Bench From West, CH 4055- 4065 = 10m	7d/wk-1a	15d	05-May-15 08	19-May-15 18	Od			WB.I	nner Bench From	West, CH 4055	4065 = 10m		
A9170	WB,Inner Bench From West, CH 4065- 4075 = 10m	7d/wk-1a	15d	20-May-15 08	03-Jun-15 18	Od			w	B.Inner Bench Fro	m West, CH 40	65-4075 = 10m		
A9175	WB,Inner Bench From West, CH 4075- 4085 = 10m	7d/wk-1a	15d	04-Jun-15 08	18-Jun-15 18	Od			1	1		4075- 4085 = 10m		
No. of Street, or other		1 4 109 24	100	21 COL 11 CC						in Denar	i foin wear, on	4075-4005 - 100		
From East	(TS4)								1	1				
Inner Head	ding Excavation (2d/m, 24h/day work shift, 7d/week, no work on	statutory holi	day)	- 200						1	1			
A9210	WB,Inner Heading From East, CH 4135- 4125 = 10m @2d/m	7d/wk-1a	20d	14-Jan-15 08	02-Feb-15 18	6d		WB,In	ner Heading From E	ast, CH 4135- 41	25 = 10m @2d/r	n		
A9215	WB,Inner Heading From East, CH 4125- 4115 = 10m @2d/m	7d/wk-1a	20d	03-Feb-15 08	25-Feb-15 18	6d		v v	/B,Inner Heading Fro	om East, CH 4125	- 4115 = 10m @	2d/m		
A9230	WB,Inner Heading From East, CH 4115- 4105 = 10m @2d/m	7d/wk-1a	20d	26-Feb-15 08	17-Mar-15 18	6d			WB,Inner Heading	g From East, CH 4	115-4105 = 10	m @2d/m		
A9232	WB,Inner Heading From East, CH 4105- 4095 = 10m @2d/m	7d/wk-1a	20d	18-Mar-15 08	07-Apr-15 18	6d			WB.Inner Hea	ading From East. (CH 4105- 4095	= 10m @2d/m		
A9225	WB,Inner Heading From East, CH 4095- 4085 = 10m @2d/m	7d/wk-1a	20d	08-Apr-15 08	27-Apr-15 18	6d				1	1	185 = 10m @2d/m		
1000		(Groute 14	200	00-Apr-10 00	21-001-10-10	ou			VVD,inner	Heading From Ea	ISC CH 4095- 40	165 = 10m @20/m		
	ch Excavation (1.5d-2d/m, 20m separation with heading)										1			
A9235	WB,Inner Bench From East, CH 4135- 4125 = 10m	7d/wk-1a	15d	18-Mar-15 08	01-Apr-15 18	16d			WB,Inner Bend	h From East, CH	4135-4125 = 1	m		
A9240	WB.Inner Bench From East, CH 4125- 4115 = 10m	7d/wk-1a	15d	08-Apr-15 08	22-Apr-15 18	11d			WB,Inner I	Bench From East,	CH 4125- 4115	= 10m		
A9245	WB,Inner Bench From East, CH 4115- 4105 = 10m	7d/wk-1a	15d	28-Apr-15 08	13-May-15 18	6d			WB,In	ner Bench From E	ast, CH 4115- 4	105 = 10m		
	WB,Inner Bench From East, CH 4105- 4095 = 10m	7d/wk-1a	15d	14-May-15 08	28-May-15 18	6d			we we	Inner Bench From	n East, CH 410	- 4095 = 10m		
A9247	the second s	7d/wk-1a	15d	29-May-15 08	12-Jun-15 18	6d		0.00	-	WB,Inner Bench F	rom East, CH 4	095- 4085 = 10m		
A9247 A9250	WB,Inner Bench From East, CH 4095- 4085 = 10m	(Grand-19		and the second second					1					
A9250		(Gran-)a		1					Prepared by William	Caluza				
A9250	nary Bar 14 of 18							Date	Prepared by William Revision	Caluza Checked Ap	proved			
A9250	nary Bar 14 of 18 Level of Effort China Sta		tion Eng	ineering (Hon	g Kong) Ltd				Revision		proved	中国演会一	·蒋(新祥)-3	>m
A9250 Summ Actual	nary Bar 14 of 18 Level of Effort China Sta	te Construc				noon Shelter S	Section)	Date	Revision		proved	中國連架工		
A9250 Summa Actual Actual Remain	It ary Bar 14 of 18 I Level of Effort China Sta Work Contract No. HY/2009/15 - Central N I Remaining Work	te Construc Wan Chai B	y Pass -		eway Bay Typl	noon Shelter S	Section)	Date	Revision			中國運築工 CHINA STATE CONSTRUC		

A9295	Vorks se Slab (10m/bay, 10m separation with benching excavati		Duration			Float	Q4	-		2015	1	-	2016	
From West Ba					-		14	01	Q2	Q3	Q4	Q1	Q2	Q3
A9295	se also I runnbay, runn separation with benching excavation		_						-					
		3 01						1000						
	WB From West, Base Slab CH 3990 - 3995 = 5m bay	7d/wk-1a	10d	18-Jan-15 08	27-Jan-15 18	37d	1	WB From	m West, Base Slab	CH 3990 - 3995 =	5m bay			
A9320	WB From West, Base Slab CH 3995 - 4005 = 10m/bay	7d/wk-1a	10d	04-Feb-15 08	13-Feb-15 18	30d	4.444	WB F	rom West, Base S	Slab CH 3995 - 400	5 = 10m/bay			
A9255	WB From West, Base Slab CH 4005 - 4015 = 10m/bay	7d/wk-1a	10d	27-Feb-15 08	08-Mar-15 18	50d	and a state		NB From West, Ba	ase Slab CH 4005 -	4015 = 10m/bay			
A9260	WB From West, Base Slab CH 4015 - 4025 = 10m/bay	7d/wk-1a	10d	19-Mar-15 08	28-Mar-15 18	40d		1	WB From Wes	t, Base Slab CH 40	015 - 4025 = 10m/b	ay		
A9265	WB From West, Base Slab CH 4025 - 4035 = 10m/bay	7d/wk-1a	10d	09-Apr-15 08	18-Apr-15 18	30d	1111		WB From	West, Base Slab C	H 4025 - 4035 = 10)m/bay		
A9300	WB From West, Base Slab CH 4035 - 4045 = 10m/bay	7d/wk-1a	10d	29-Apr-15 0B	09-May-15 18	20d	11111		WB Fr	om West, Base Sla	b CH 4035 - 4045	= 10m/bay		
A9325	WB From West, Base Slab CH 4045 - 4055 = 10m/bay	7d/wk-1a	10d	20-May-15 08	29-May-15 18	10d			E W	B,From West, Base	Slab CH 4045 - 4	055 = 10m/bay		
A9305	WB From West, Base Slab CH 4055 - 4065 = 10m/bay	7d/wk-1a	10d	04-Jun-15 08	13-Jun-15 18	5d				WB From West, B	ase Slab CH 4055	- 4065 = 10m/bay		
A9310	WB From West, Base Slab CH 4065 - 4075 = 10m/bay	7d/wk-1a	10d	19-Jun-15 08	29-Jun-15 18	Od				WB From Wes	t Base Slab CH 40	65 - 4075 = 10m/bay		
A9315	WB From West, Base Slab CH 4075 - 4080 = 5m	7d/wk-1a	10d	30-Jun-15 08	10-Jul-15 18	Dd				WB From W	est, Base Slab CH	4075 - 4080 = 5m		
From East Bas	e Slab (10m/bay, 10m separation with benching excavation	(חג			1	-	1	-		-	1		_	
	WB From East, Base Slab CH 4135 - 4125 = 10m/bay	7d/wk-1a	10d	23-Apr-15 08	03-May-15 18	26d			WR Fro	m East, Base Slab	CU 4125 4125 -	Danthau		
	WB From East, Base Slab CH 4125 - 4115 = 10m/bay	7d/wk-1a	10d	14-May-15 08	23-May-15 18	16d						1201		
	WB From East, Base Slab CH 4115 - 4105 = 10m/bay	7d/wk-1a	10d	29-May-15 08	07-Jun-15 18	11d	at story		1	From East, Base S	R. States			
				1	1	1.654				WB From East, Bas				
	WB From East, Base Slab CH 4105 - 4095 = 10m/bay	7d/wk-1a	10d	13-Jun-15 08	23-Jun-15 18	6d	1		1 7			5 - 4095 = 10m/bay		
	WB From East, Base Slab CH 4095 - 4085 = 10m/bay	7d/wk-1a	10d	24-Jun-15 08	04-Jul-15 18	6d			- R	WB From Eas	t; Base Slab CH 40	095 - 4085 = 10m/bay		
A9941	WB From East, Base Slab CH 4085 - 4080 = 5m	7d/wk-1a	10d	05-Jul-15 08	14-Jul-15 18	6d			200	WB From E	ast, Base Slab CH	4085 - 4080 = 5m		-
Lining (5m/bay	y. 10m separation with base slab)								1			1		
A9430	WB From West, Lining CH 3990 - 3995 = 1bay	7d/wk-1a	7d	14-Feb-15 08	23-Feb-15 18	30d		I WE	3 From West, Linin	g CH 3990 - 3995	= 1bay			
A9470	WB From West, Lining CH 3995 - 4000 = 1bay	7d/wk-1a	7d	24-Feb-15 08	02-Mar-15 18	30d		E W	B From West, Lini	ing CH 3995 - 4000) = 1bay			
A9435	WB From West, Lining CH 4000 - 4005 = 1bay	7d/wk-1a	7d	03-Mar-15 08	09-Mar-15 18	30d			WB From West, Li	ning CH 4000 - 401	05 = 1bay			
A9360	WB From West, Lining CH 4005 - 4010 = 1bay	7d/wk-1a	7d	10-Mar-15 08	16-Mar-15 18	30d			WB From West, I	Lining CH 4005 - 4	010 = 1bay			
A9365	WB From West, Lining CH 4010 - 4015 = 1bay	7d/wk-1a	7d	17-Mar-15 08	23-Mar-15 18	30d		1.1	WB From West	Lining CH 4010 -	4015 = 1bay			
A9370	WB From West, Lining CH 4015 - 4020 = 1bay	7d/wk-1a	7d	24-Mar-15 08	30-Mar-15 18	30d			WB From Wes	st, Lining CH 4015	4020 = 1bay			
A9375	WB From West, Lining CH 4020 - 4025 = 1bay	7d/wk-1a	7d	31-Mar-15 08	07-Apr-15 18	30d	1111		WB From W	est, Lining CH 402	0 - 4025 = 1bay			
A9380	WB From West, Lining CH 4025 - 4030 = 1bay	7d/wk-1a	7d	08-Apr-15 08	14-Apr-15 18	30d			WB From V	Vest, Lining CH 40	25 - 4030 = 1bav			
	WB From West, Lining CH 4030 - 4035 = 1bay	7d/wk-1a	7d	15-Apr-15 08	21-Apr-15 18	30d			1.200	West, Lining CH 4				
and the second s	15 of 18				and the same		12		repared by William					_

Acti	tivity Name		Calendar	Original	Start	Finish	Total			2	015		-		2016	
				Duration	11		Float	Q4	Q1	Q2	Q3		24	Q1	Q2	Q3
WB	B From West, Lini	ng CH 4035 - 4040 = 1bay	7d/wk-1a	7d	22-Apr-15 08	28-Apr-15 18	30d	Sec. A		WB From	West, Lining C	CH 4035 - 40	40 = 1bay	-		
WB	B From West, Lini	ng CH 4040 - 4045 = 1bay	7d/wk-1a	7d	29-Apr-15 08	06-May-15 18	30d			WB Fro	m West, Lining	CH 4040 - 4	045 = 1ba	ay		1
WB	B From West, Lini	ng CH 4045 - 4050 = 1bay	7d/wk-1a	7d	07-May-15 08	13-May-15 18	30d			WB F	rom West, Linin	g CH 4045 -	4050 = 1	ау		
WB	B From West, Lini	ing CH 4050 - 4055 = 1bay	7d/wk-1a	7d	14-May-15 08	20-May-15 18	30d			WB	From West, Lin	ing CH 4050	- 4055 =	bay		
WB	B From West, Lin	ng CH 4055 - 4060 = 1bay	7d/wk-1a	7d	21-May-15 08	27-May-15 18	30d			WE WE	From West, Li	ning CH 405	5 - 4060 =	1bay		
WB	B From West, Lini	ing CH 4060 - 4065 = 1bay	7d/wk-1a	7d	28-May-15 08	03-Jun-15 18	30d			a w	B From West, I	Lining CH 40	60 - 4065	= 1bay		
WB	B From West, Lini	ing CH 4065 - 4070 = 1bay	7d/wk-1a	5d	04-Jun-15 08	08-Jun-15 18	30d				VB From West,	Lining CH 4	065 - 407	0 = 1bay		
WB	B From West, Lin	ing CH 4070 - 4075 = 1bay	7d/wk-1a	5d	11-Jul-15 08	15-Jul-15 18	Od			and an	WB From	n West, Linin	g CH 407	0 - 4075 = 1bay		
WB	B From West, Lin	ing CH 4075 - 4080 = 1bay	7d/wk-1a	5d	16-Jul-15 08	20-Jul-15 18	Od	1111		Ince for	WB Fro	m West, Lini	ng CH 40	75 - 4080 = 1bay		
WB	B From West, Lin	ing CH 4080 - 4085 = 1bay	7d/wk-1a	5d	21-Jul-15 08	25-Jul-15 18	Od	100		1	1.0			080 - 4085 = 1bay	e	
WB	B From West, Lin	ing CH 4085 - 4090 = 1bay	7d/wk-1a	5d	26-Jul-15 08	30-Jul-15 18	Od	1		1				1085 - 4090 = 1ba		
WB	B From West, Lin	ing CH 4090 - 4095 = 1bay	7d/wk-1a	5d	31-Jul-15 08	04-Aug-15 18	Od							4090 - 4095 = 1b	1	
		ing CH 4095 - 4100 = 1bay	7d/wk-1a		05-Aug-15 08	09-Aug-15 18	DO							4095 - 4100 = 10	(III)	
1	and a start desired	ing CH 4100 - 4105 = 1bay	7d/wk-1a	5d	10-Aug-15 08	14-Aug-15 18	0d	1			1			H 4100 - 4105 = 1		
		ing CH 4105 - 4110 = 1bay	7d/wk-1a	5d	15-Aug-15 08	19-Aug-15 18	Od							CH 4105 - 4110 =		
		ing CH 4110 - 4115 = 1bay	7d/wk-1a	5d	20-Aug-15 08	24-Aug-15 18	Od								12	
		-		5d	1		100				1		100	CH 4110 - 4115 =	1.	
		ing CH 4115 - 4120 = 1bay	7d/wk-1a		25-Aug-15 08	29-Aug-15 18	Od				1	1		g CH 4115 - 4120		
		ing CH 4120 - 4125 = 1bay	7d/wk-1a	5d	30-Aug-15 08	03-Sep-15 18	0d	1		i i				19 CH 4120 - 4125		
		ing CH 4125 - 4130 = 1bay	7d/wk-1a	5d	04-Sep-15 08	08-Sep-15 18	Od	đ.			1			ing CH 4125 - 413		
WE	B From West, Lin	ing CH 4130 - 4135 = 1bay	7d/wk-1a	5d	09-Sep-15 08	13-Sep-15 18	Od	1			1	WB From	1 West, Li	ning CH 4130 - 41	35 = 1bay	
WE	B From West, Lin	ing CH 4135 - 4136.5 = 1bay	7d/wk-1a	5d	14-Sep-15 08	18-Sep-15 18	Od					WB From	m West, L	ining CH 4135 - 4	136.5 = 1bay	
bay) /	/ Utility Trough											1			1	
WE 10r	/B From West OH)m/bay @ 7d/bay	VD and utility trough =, 153= 16 bays @	7d/wk-1a	115d	08-Jul-15 08	02-Nov-15 18	Od					-	WB From	n West OHVD and	d utility trough =, 1	53= 16 bays @
-	D10-Section 5				-					1					1	
KD	D10- Section 2: Co arget KD10- 2 Nov	empletion of Mined Tunnel Works (orig.	7d/wk-2	b0		02-Nov-15 18*	b0					٠	KD10- S	ection 2: Completi	on of Mined Tunne	Works (orig. T
-	s with other	Charles and the second s					- 1				-					
Ha	andover TZ6 to M	TR	7d/wk-2	Od	-	30-Sep-14 18	-249d	Handover T	Z6 to MTR							
Ha	andover TZ4 to C	WB(T2)	7d/wk-2	Dd		10-Nov-14 18	-290d	Har	ndover TZ4 to CWI	B(T2)						
Pro	rovide access to C	WB (CC) Contractor- TS1 & TS2	7d/wk-2	Od		21-Nov-14 18*	-85d	• P	rovide access to C	WB (CC) Contractor	- TS1 & TS2				1	
Per Der		16 of 18				-				Prepared by William	n Caluza		-]		
						10.000			Date	Revision		Approved				
Vork		China	State Construc	ction En	gineering (Hor	ng Kong) Ltd			26-Sep 1st sub	mission			567	中國連 梦.	工程(重法)	オロ小日
ing We	Vork	Contract No. HY/2009/15 - Centr	al Wan Chai B	y Pass -	Tunnel (Caus	seway Bay Typ	hoon She	elter Section)								
Remai	aining Work												-			
Vork ing We	of Effort Vork	China		y Pass -		seway Bay Typ	hoon Shi	elter Section)	Date	Revision		Approved	allea			中國連幕工程(春港) CHINA STATE CONSTRUCTION ENGINEERING

ctivity ID	Activity Name	Calendar	Original Duration	Start Finish	Total Float				015	· · · · · · · · · · · · · · · · · · ·		2016	
S6 5280	Provide access to CWB (CC) Contractor- TS4, TPCWA, Mined	7d/wk-2	Od	31-Mar-16 18*	-124d	Q4	Q1	Q2	Q3	Q4	Q1	Q2 Provide access	Q3
	Tunnel							-					
Stage and	Section Completion					1.0		1.					
KD_5735	KD8 - Completion of Section 3, (1326d)	7d/wk-2	DO	30-Sep-14 18*	-86d	KD8 - Completic	n of Section 3, ((1326d)					1.000
KD_5720	KD5 - Achievement of Stage 5, (1152d)	7d/wk-2	b0	16-Oct-14 18*	-323d	 KD5 - Achiev 	ement of Stage	5, (1152d)					
KD_5760	KD13 - Completion of Section 7B, (1152d)	7d/wk-2	0d	17-Nov-14 18*	-353d	♦ KD13	Completion of	Section 7B, (1152d)				ā.	1
KD_5730	KD7 - Completion of Section 2, (1152d)	7d/wk-2	b0	17-Nov-14 18*	-297d	♦ KD7 -	Completion of S	ection 2, (1152d)		i			
KD_5740	KD9 - Completion of Section 4, (1739d)	7d/wk-2	0d	10-Nov-15 18*	-132d					KD9 -	Completion of Se	ction 4, (1739d)	
KD_5745	KD10 - Completion of Section 5, (1863d)	7d/wk-2	Od	25-Mar-16 18	-144d							KD10 - Comple	tion of Section 5, e
KD_5750	KD11 - Completion of Section 6, (1949d)	7d/wk-2	Dd	23-May-15 18*	-121d							♦ KD	1 - Completion of
Portion Ha	andover Date		-						1				
CD_5685	Portion Handover - Portion IV(4), KD8 +28	7d/wk-2	0d	28-Oct-14 18*	-50d	Portion Ha	andover - Portion	n IV(4), KD8 +28					1
CD_5680	Portion Handover - Portion V (5), KD8 +28	7d/wk-2	Dd	28-Oct-14 18*	-50d	Portion Ha	andover - Portic	en V (5), KD8 +28			1		
CD_5695	Portion Handover - Portion VI (6), KD8 +28	7d/wk-2	Dd	28-Oct-14 18*	-50d	Portion Ha	andover - Portio	n VI (6), KD8 +28					
CD_5735	Portion Handover - Portion XIIIB (13B), KD8 +28	7d/wk-2	Od	28-Oct-14 18*	-50d	Portion Ha	andover - Portio	n XIIIB (13B), KD8 -	+28				
CD_5790	Portion Handover - Portion XXII (22), KD8 +28	7d/wk-2	Od	28-Oct-14 18*	-50d	Portion Hr	andover + Portio	n XXII (22), KD8 +2	8				
CD_5670	Portion Handover - Portion III (3), KD8 +28	7d/wk-2	0d	28-Oct-14 18*	-50d	Portion Ha	andover - Portio	n III (3), KD8 +28					
CD_5720	Portion Handover - Portion XIIIA (13A), KD7 +28	7d/wk-2	0d	15-Dec-14 18*	-79d	•	Portion Handove	er - Portion XIIIA (13	3A), KD7 +28				
CD_5705	Portion Handover - Portion VIII (8), KD7 +28	7d/wk-2	Dd	15-Dec-14 18*	-79d	•	Portion Handove	er - Portion VIII (8),	KD7 +28				
CD_5730	Portion Handover - Portion XIVA (14A), KD7 +28	7d/wk-2	Od	15-Dec-14 18	-79d	•	Portion Handove	er - Portion XIVA (14	4A), KD7 +28				1
CD_5740	Portion Handover - Portion XV (15), KD7 +28	7d/wk-2	bð	15-Dec-14 18	-79d		Portion Handov	er - Portion XV (15).	KD7 +28				1
CD_5805	Portion Handover - Portion XXIII (23), KD7 +28	7d/wk-2	Dd	15-Dec-14 18	-79d	•	Portion Handov	er - Portion XXIII (23	3), KD7 +28				· · · ·
CD_5775	Portion Handover - Portion XVIII (18), KD10 +28	7d/wk-2	Od	30-Nov-15 18	• Od					• P	ortion Handover -	Portion XVIII (18),	KD10 +28
CD_5710	Portion Handover - Portion XI (11), KD9 +28	7d/wk-2	Od	27-Dec-15 18	Dd	1.110					Portion Hand	over - Portion XI (1), KD9 +28
CD_5700	Portion Handover - Portion IX (9), KD10 +28	7d/wk-2	0d	22-Apr-16 18*	-52d							Portion H	andover - Portion
CD_5745	Portion Handover - Portion XIVB (14B), KD10 +28	7d/wk-2	0d	22-Apr-16 18*	-52d					1		Portion H	andover - Portion
CD_5755	Portion Handover - Portion XVI (16), KD10 +28	7d/wk-2	0d	22-Apr-16 18*	-52d							Portion H	andover - Portion
CD_5750	Portion Handover - Portion XVII (17), KD10 +28	7d/wk-2	Dd	22-Apr-16 18*	-52d	all and a second						Portion H	andover - Portion
CD_5760	Portion Handover - Portion XIX (19), KD10 +28	7d/wk-2	0d	22-Apr-16 181	-52d							Portion H	andover - Portion
CD_5780	Portion Handover - Portion XXB (20B), KD10 +28	7d/wk-2	Dd	22-Apr-16 18	-52d							 Portion H 	andover - Portion
Actual Actual Actual Rema	Work ining Work Contract No. HY/2009/15 - Central I Remaining Work	I Wan Chai E	By Pass -	gineering (Hong Kong) Ltd Tunnel (Causeway Bay Ty RAMME REV. M	phoon St	26	Date 8-Sep 1st subi	Prepared by Willian Revision mission	n Caluza Checked Ap	oproved		工程(哥·茨	

Activity ID	Activity Name	Calendar			Finish	Total			20	015			2016	1
			Duration		1. The second	Float	 Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
CD_5690	Portion Handover - Portion VII (7), KD11 +28	7d/wk-2	0d		20-Jun-16 18	Od								Portion Handov
CD_5725	Portion Handover - Portion XII (12), KD11 +28	7d/wk-2	0d	1	20-Jun-16 18	b0								Portion Handov
CD_5715	Portion Handover - Portion X (10), KD11 +28	7d/wk-2	Dd	1	20-Jun-16 18	Od								Portion Handov
CD_5785	Portion Handover - Portion XXA (20A), KD11 +28	7d/wk-2	Dd		20-Jun-16 18	Od								Portion Handov
CD_5795	Portion Handover - Portion XXI (21), KD11 +28	7d/wk-2	b0	1	20-Jun-16 18	Od								Portion Hando

Summary Bar	18 of 18	1	Prepared by William	n Caluza			
and the second se		Date	Revision	Checked	Approved		
Actual Level of Effort	China State Construction Engineering (Hong Kong) Ltd	26-Sep	1st submission			-	
Actual Work						LINE.	中國連禁工程(香港)有限公司
Remaining Work	Contract No. HY/2009/15 - Central Wan Chai By Pass - Tunnel (Causeway Bay Typhoon Shelter Section)	-				1000040	CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LT
Critical Remaining Work		-					
Milestone	WORKS PROGRAMME REV. M					1	

000	利	LEADER	中國建築-利達聯營 CHINA STATE - LEADER JOINT VENTURE	
HULLER	建	$\mathbf{\mathbf{\nabla}}$	CHINA STATE - LEADER JOINT VENTURE	

CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West

vity ID	Activity Name	Remaining Dur	Early Start	Early Finish	June 2015 01 08 15 22	July 2015	August 2015	September 2015	October 2015 28 05 12 19 26		December 2015	February 2016	March 2016	April 2016	May 2
HK/2012/08	Revised Works Programme Rev.4_1(Fina	al)			01 00 10 22					02 00 10 20		01 00 10 22	20 07 14 21 2		02 00
Dredging an	d Reclamation														
Marine Work	< Construction														
Zone CRIII															
Dredging - Z	one CRIII														
CRIII - Temp	oorary Pipe Pile Wave Wall (1st Stage)											 			
MAR12360	CRIII - temp pipe pile wall (34-197) - install 610 dia.	42	18-Oct-14 A	18-Aug-15	_										
	pipe pile [Remaining 28 nos. @750c/c] porary Pipe Pile Wave Wall (2nd Stage)			5											
MAR10035	CRIII - temp pipe pile wall (1-33) - relocate interim	0		06-Jul-15*											
	landing steps		07.64.15		_										
MAR10040	CRIII - temp pipe pile wall (1-33) - install 610 dia. pip pile [33nos. @750c/c]	e 40	07-Jul-15	21-Aug-15								 			
Dredging at 2															
MAR16095	Zone CRIII - 2nd stage - Remove existing rock armou [B5-E5] after relocating interim landing steps	r 10	30-Aug-15	08-Sep-15											
Zone A2															
Seawall Cons	struction - Zone A2														
MAR10775	Zone A2 - seawall - Type 4, 13 - lay toe block and	18	30-Jun-15	17-Jul-15								 			
MAR10780	leveling stone in line with backfilling in zone A2(2) Zone A2 - seawall - install block seawall Type 4 to	14	18-Jul-15	31-Jul-15											
MAR10800	-1.5mPD Zone A2 - seawall - install block seawall Type 13 to	14	18-Jul-15	31-Jul-15			_								
MAR10805	-1.5mPD Zone A2 - seawall - install block seawall Type 4 from -1.5 to +4.0mPD	10	01-Aug-15	12-Aug-15			_								
MAR10807	Zone A2 - seawall - install block seawall Type 13 from -1.5 to +4.0mPD	10	01-Aug-15	12-Aug-15	_										
MAR10815	Zone A2 - seawall - place type A behind seawall Type 4 and Type 13 up to -1.5 mPD	7	13-Aug-15	20-Aug-15								 			
MAR10817	Zone A2 - seawall - lay geotextile and filter behind seawall Type 4 and Type 13 up to -1.5 mPD	7	21-Aug-15	28-Aug-15											
Filling - Zone															
MAR20365	Zone A2(2) - Public Fill -4.0 to +4.0mPD (behind Type 4 & 13 for temp channel outlet)	28	01-Aug-15	28-Aug-15											
Zone C															
Dredging - Z	one C							-	+			 			
MAR11520	Zone C - Cut existing pipe pile (2 nos.)	30	28-Jul-15	31-Aug-15											
Zone D															
Seawall Cons	struction - Zone D														
Seawall 2C-L	-														
MAR12264	Zone D - Pipe Pile & demolish existing seawall	35	01-Feb-15 A	10-Aug-15		, , ,						 			
MAR12265	Zone D - complete fabrication of Caisson Seawall 2C-L			30-Jul-15*	_										
MAR12270	and ready for delivery Zone D - fill rock mound for Seawall 2C-L	6	11-Aug-15	16-Aug-15	_										
MAR12275	Zone D - lay toe block and level stone for Seawall	8	17-Aug-15	25-Aug-15	_										
MAR12273	2C-L Zone D - Install Caisson Seawall 2C-L	3	26-Aug-15	28-Aug-15											
IVIAN 1220U	Zone D - Install Caisson SedWall ZC-L	3	20-Aug-10	20-Aug-15	1	E	÷ –					1			1

 Data Date:
 Current Milestone
 Date
 Revision

 30-Jun-15
 Actual Work
 03-Jul-15
 03-Jul-15

 Critical Remaining Work
 Morks Programme for Non-CRIII Zones (June to August 2015)
 Image: Critical Remaining Work

 Remaining Level of Effort
 Remaining Level of Effort
 Image: Critical Remaining Work
 Image: Critical Remaining Work

		Page :	1/6	
May 2016	June 2016	July 2016		sptember 2016
09 16 23	30 06 13 20 2	27 04 11 18 25	01 08 15 22 2	29 05 12 19
evision	Checked	A	pproved	

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mail and a china state - Li	- 利 EADER JO	達聯	營 JRE					i Developi	. HK/2012/08 ment Phase II is at Wan Chai	West				Page : 2	/ 6	
rity ID Activity Name	Remaining Dur	Early Start	Early Finish	June 2015 01 08 15 22	July 2015	August 2015	September 2015 October 2015 24 31 07 14 21 28 05 12 19	November 2015 26 02 09 16 23 30	December 2015 January 2016 0 07 14 21 28 04 11 18 2	February 2016	March 2016 April 2016 29 07 14 21 28 04 11 18	May 2016 25 02 09 16 23	June 2016 30 06 13 20 23	July 2016 7 04 11 18 25	August 2016	eptemb 29 05
Seawall 2C-R														1		
MAR12245 Zone D - fill rock mound for Seawall 2C-L	6	28-Aug-15	02-Sep-15				—									
MAR12250 Zone D - complete fabrication of Caisson Seawall 2C-R	0		30-Jul-15*													
and ready for delivery Works for Section Completion																
Construction																
Section II - MVB Structure																
MVB Substructure - ELS & Structural Works for Portion A																
MVB Substructure - ELS for Portion A																
SII11080 Sec II - MVB A - Install Strut L7 at -20mPD	14	02-Jul-15*	17-Jul-15													
				_												
SII11100 Sec II - MVB A - Excavation down to -24.45mPD	12	17-Jul-15	30-Jul-15	 												
MVB Substructure - Structural Works for Portion A																
SII11120 Sec II - MVB A - Construct B3M slab, column and wall	73	31-Jul-15	27-Oct-15					1								
MVB Substructure - ELS & Structural Works for Portion B																
MVB Substructure - ELS for Portion B																
SII11680 Sec II - MVB B: Excavation down to -18.5mPD	7	02-Jul-15*	09-Jul-15													
SII11700 Sec II - MVB B: Install Strut L7 at -17.5mPD	8	10-Jul-15	18-Jul-15													
SII11720 Sec II - MVB B: Excavation down to -22.5mPD	7	20-Jul-15	27-Jul-15	-												
SII11740 Sec II - MVB B: Install Strut L8 at -21.5mPD	8	28-Jul-15	05-Aug-15			-										
SII11760 Sec II - MVB B: Excavation down to -25.45mPD	7	06-Aug-15	13-Aug-15	-												
MVB Substructure - Structural Works for Portion B																
SII11780 Sec II - MVB B: Construct B3 slab, column and wall	85	14-Aug-15	24-Nov-15													
MVB Substructure - Piling Works																
MVB C - Prebored H Piles																
SII10400 Sec II - MVB C - construct prebored H-piles	35	22-Aug-15	03-Oct-15													
	35	22-Aug-15	03-001-13													
Section II A - CWB Tunnel & Slip Road Structures and Facilities																
CWB CRIII & A1																
CWB CRIII & A1 - Pumping Test Preparation/ Pumping Test																
CWB A1 - Pumping Testing Preparation																
SIIA11240 Sec II A - CWB A1 - install dewater/ recharge / observation well	17	11-May-15 A	20-Jul-15													
SIIA10780 Sec II A - CWB CRIII - pumping test (CRIII, A1)	10	20-Jul-15	30-Jul-15]										
CWB CRIII - ELS & Tunnel Structure																
CWB CRIII - ELS																
SIIA10820 Sec II A - CWB CRIII: Shoring & Excavation	42	18-Apr-15 A	18-Aug-15	<u> </u>												
SIIA10960 Sec II A - CWB CRIII: Demolish Bulkhead at West End	45	19-Aug-15	12-Oct-15	-		_										
CWB CRIII - Tunnel Structure					-											[
SIIA10840 Sec II A - CWB CRIII: Base, wall, OHVD & roof (bay	45	19-Aug-15	12-Oct-15			_										
1) SIIA10880 Sec II A - CWB CRIII: Base, wall, OHVD & roof (bay	45	19-Aug-15	12-Oct-15	-												
3) CWB A1 - ELS & Tunnel Structure	-0		12 000-10													
CWB A1 - ELS Remaining																1

CSUEC 1	CHINA STATE - LE	- 利	達聯 OINT VENTL	JRE			Wan Chai Central - Wan Cl	ntract No. HK/2012/08 Development Phase II nai Bypass at Wan Chai			Page : 3 / 6	
ctivity ID	Activity Name F	Remaining Dur	Early Start	Early Finish	June 2015 01 08 15 22	July 2015 August 2015 29 06 13 20 27 03 10 17 24	September 2015 October 2015 31 07 14 21 28 05 12 19 26	November 2015 December 2015 January 2016 02 09 16 23 30 07 14 21 28 04 11 18 2	February 2016 March 2016 5 01 08 15 22 29 07 14 21 2	April 2016 May 2016 8 04 11 18 25 02 09 16 23	June 2016 July 2016 Augus 30 06 13 20 27 04 11 18 25 01 08	st 2016 sptember 2 15 22 29 05 12
SIIA11286	Sec IIA - CWB A1 : Shoring & Excavation (Remaining)	37	07-Jul-15	18-Aug-15								
CWB A1 - Tu	nnel Structure Remaining											
SIIA13045 CWB A1 - Oth	Sec II A - CWB A1: Pile head + trough + base & wall + OHVD unit (1st bay) her Works	45	19-Aug-15	12-Oct-15								
SIIA15480	Culvert L - [Summary] Bay 9 to Bay 11 on top of CWB	27	08-Jun-15 A	31-Jul-15								
SIIA15500	A1 and divert flow Zone A2(2) - Public Fill -4.0 to +4.0mPD (behind Type 4 & 13 for temp channel outlet)	28	01-Aug-15	28-Aug-15								
CWB A2(2)												
CWB A2 (2) -	Dwall & Piling											
SIIA13500	Sec II A - CWB A2 : backfill to +4.0mPD	28	01-Aug-15	28-Aug-15								
SIIA15260	Sec II A - CWB A2 : Predrilling for Dwall & piles	40	29-Aug-15	16-Oct-15	-							
SIIA15280	Sec II A - CWB A2 : Ground treatment	40	29-Aug-15	16-Oct-15								
CWB B (& A2(1))											
CWB B - Dwal	l & Piling											
SIIA11540	Sec II A - CWB B (&A2(1)) : Construct pre-bored	27	30-Apr-15 A	31-Jul-15								
SIIA11560	H-pile Sec II A - CWB B: Ground treatment to Stop End (MTR	53	15-Jun-15 A	31-Aug-15								
SIIA11565	CWL) Sec II A - CWB B: Sheetpile Bulkhead Wall for "Delink"	21	07-Aug-15	31-Aug-15								
CWB B - Pump	ing Test Preparation											
SIIA11580	Sec II A - CWB B: Dwall sonic test / interface core	47	13-Jun-15 A	24-Aug-15								
SIIA11600	Sec II A - CWB B: Dwall precaution grout / fissure	47	13-Jun-15 A	24-Aug-15								
SIIA11620	grout / grout curtain Sec II A - CWB B: Install dewatering/ recharging/	40	14-Jul-15	28-Aug-15	-							
CWB C (W)	observation well								-			
CWB C(W) - D	wall Construction											
	Sec II A - CWB CW: Ground treatment to Stop End	53	16-Jun-15 A	31-Aug-15			1					
SIIA11980	(MTR TWL) Sec II A - CWB CW: D-wall contact grout / fissure	40	14-Jul-15*	28-Aug-15	-							
SIIA12000	grout Sec II A - CWB CW: Dwall sonic test / interface core	40	14-Jul-15	28-Aug-15	-							
CWB C(W) - P	umping Test Preparation/ Pumping Test											
SIIA12020	Sec II A - CWB CW: Install dewatering/ recharging/	40	14-Jul-15	28-Aug-15								
CWB C (E)	observation wells											
CWB C(E) & Er	abling Work - Dwall Construction											
CWB C(E) - D	wall Construction											
SIIA12980	Sec II A - CWB CE: ground pre-treatment	26	30-Mar-15 A	30-Jul-15					-	· · · · · · · · · · · · · · · · · · ·		
SIIA13000	Sec II A - CWB CE: construct Guide Wall	20	01-Apr-15 A	23-Jul-15	_							
SIIA13010	Sec II A - CWB CE: construct barrette (1.2m thk)	93	07-Apr-15 A	19-Oct-15	_							
SIIA13020	Sec II A - CWB CE: construct Dwall (1.5m thk) (on	103	29-Apr-15 A	31-Oct-15	_							
SIIA13030	rock) Sec II A - CWB CE: construct temp Dwall (1.2m)	80	28-Jul-15	31-Oct-15	-							
SCL Enabling	Work - Dwall Construction								-			
SIIA15520	Sec II - SCL Enabling Works - construct Dwall -	103	18-Feb-15 A	31-Oct-15								
CWB C(E) - Pu	Remaining [7 panels] mping Test Preparation/ Pumping Test											
SIIA13085	Sec II A - CWB CE: Cut existing pipe piles (2 nos.)	30	28-Jul-15	31-Aug-15								
CWB D - Slip I	Road 1											

	LEADER 中國建築 CHINA STATE - LI							War		velopmer	K/2012/08 ht Phase II t Wan Chai	West				Page : 4	4/6	
y ID	Activity Name	Remaining Dur	Early Start	Early Finish	June 2015	July 2015	August 2015	September 2015 00	tober 2015 Nover	nber 2015 Decemb	Der 2015 January 2016	February 2016	March 2016 Apr 29 07 14 21 28 04	ril 2016 May 2016	June 2016	July 2016	August 2016	
CWB D - Slip F	Road 1 - Dwall Construction & Piling																	
SIIA12260	Sec II A - CWB SR1: ground pre-treatment	27	17-Jan-15 A	31-Jul-15			_											
SIIA12280	Sec II A - CWB SR1: Guide Wall	30	10-Feb-15 A	08-Aug-15	_													
SIIA12305	Sec II A - CWB SR1: construct Permanent DWall (1.2m	58	07-Apr-15 A	05-Sep-15				-										
SIIA12310	thk) Sec II A - CWB SR1: construct pre-bored H-pile	42	19-Aug-15	08-Oct-15	_		_											
SIIA12320	Sec II A - CWB SR1: Temp. Cut-off Wall at Both Ends	45	15-Aug-15	08-Oct-15														
SIIA12340	Sec II A - CWB SR1: Ground treatment to Stop End	32	29-Aug-15	07-Oct-15	_													
	(MTR CWL) Road 1 - Pumping Test Preparation/ Pumping Test	52	27 Aug 15	07 000 10														
		20	17 Aug 15	20.0 15			_											
SIIA12360	Sec II A - CWB SR1: Grout curtain / contact grout for Dwall	38	17-Aug-15	30-Sep-15	_													
SIIA12380	Sec II A - CWB SR1: Dwall sonic test / interface core	38	17-Aug-15	30-Sep-15														
SIIA12400	Sec II A - CWB SR1: Install dewatering/ recharging/ observation wells	38	24-Aug-15	08-Oct-15														
Section III - R	oad D11 & Part of Road P2, Area 4, Implement 1st 5	Stage ITA																
Roadwork & U	Jtilities																	
General																		
SIII10040	Sec III - roadwork & utilities - storm water drain &	121	01-May-15 A	21-Nov-15						-								
SIII10060	subsoil drain Sec III - roadwork & utilities - Watermain & Irrigation	100	07-Jul-15*	03-Nov-15														
SIII10080	Mains Sec III - roadwork & utilities - gas main and valve	100	17-Jul-15	13-Nov-15	_					1								
SIII10100	chamber Sec III - roadwork & utilities - HEC cable duct and	100	27-Jul-15	23-Nov-15	_	E												
SIII10120	catchpit Sec III - roadwork & utilities - sub-base	100	06-Aug-15	03-Dec-15	_													
SIII10120	Sec III - roadwork & utilities - Road kerb	100	15-Aug-15	12-Dec-15	_													
SIII10160	Sec III - roadwork & utilities - flexible pavement	100	26-Aug-15	23-Dec-15	_		L											
SIII10180	Sec III - roadwork & utilities - Road Lighting, TCSS Ducts &Traffic Signs	100	26-Aug-15	23-Dec-15			l											
Section VI A -	Box Culvert La, L1 & FRP-L Construction																	
Sec VI C - Box	Culvert La bay 4 (North)																	
CUL11652	Sec VI C - Culvert L - bay 4 (north half) - excavate to formation level	18	25-Jul-15	14-Aug-15														
CUL11655	Sec VI C - Culvert L - bay 4 (north half) - place granular fill and lay geotextile filter	10	15-Aug-15	26-Aug-15														
Box Culvert L1	& FRP-L Construction (Bay 5 - Bay 7)																	
Box Culvert L	1 & FRP-L - Bay 5 to 7 Structure																	
Box Culvert L1	& FRP-L - Precast Unit Fabrication (Pile Cap)																	
CUL10866	Sec VI C - Culvert L - bay 5-7 - PC1 to PC6 Construct	13	02-Jun-15 A	15-Jul-15														
Box Culvert L1	precast Pile Cap & FRP-L - Precast Unit Fabrication (Box Structure)																	
CUL10870	Sec VI C - Culvert L - bay 5, 6 & 7 - Construct precast	17	18-Apr-15 A	20-Jul-15														
	culvert units with Bulkhead						-											
CUL10872	Sec VI C - Culvert L - bay 4b - Construct precast culvert units with Bulkhead	16	16-Jul-15	03-Aug-15														
CUL10873	Sec VI C - Culvert L - bay 4b, 5-7 - dismantle formwork and curing for precast culvert units	8	04-Aug-15	12-Aug-15														
Box Culvert L1	I & FRP-L - Precast Unit Installation																	
CUL10864	Sec VI C - Culvert L - bay 5-7 - Demolition of Piling Platform	9	30-May-15 A	10-Jul-15														
CUL10865	Sec VI C - Culvert L - bay 5-7 - Install precast pile caps PC1 to PC6	12	11-Jul-15	24-Jul-15	1													
CUL10874	Sec VI C - Culvert L - bay 5-7 - Demolition of Temp Platform & Cofferdam ready for towing precast culvert	16	25-Jul-15	12-Aug-15	1													
CUL10875	Sec VI C - Culvert L - bay 5-7 (& Bay 4b) - install	16	13-Aug-15	31-Aug-15	-													
	precast culvert units & Touch Up & FRP-L - Bay 8																	

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ity ID Activity Name	Remaining Dur	Early Start	Early Finish	June 2015 01 08 15 22	July 2015	August 2015 September 2015 October 2015 7 03 10 17 24 31 07 14 21 28 05 12 19 26	November 2015 December 2015 02 09 16 23 30 07 14 21 2	January 2016 February 2016 March 2016 28 04 11 18 25 01 08 15 22 29 07 14 21	April 2016 May 2016 28 04 11 18 25 02 09 16 23	June 2016 July 2016 August 201 30 06 13 20 27 04 11 18 25 01 08 15	16 sptember 22 29 05 1
Box Culvert L1 & FRP-L - Bay 8 Temp Work & ELS											
CUL10200 Culvert L - bay 8 - ELS and bulk excavation & Dwall	17	15-Jun-15 A	20-Jul-15								
Break Through ready for Flow Diversion Box Culvert L1 & FRP-L - Bay 9 to 11											
Box Culvert L1 & FRP-L - Bay 9 to 11 General											
CUL11695 Culvert L - [Summary of Cul L bay 9 to 11] - construct	17	08-Jun-15 A	20-Jul-15								
in-situ box culverts Box Culvert L1 & FRP-L - Bay 9											
-	14	10 hm 15 A	1/ 1/ 15								
CUL11740 Culvert L - bay 9 - construct Wall & Roof	14	18-Jun-15 A	16-Jul-15	_							
Box Culvert L1 & FRP-L - Bay 10											
CUL11860 Culvert L - bay 10 - construct Wall & Roof	17	30-Jun-15	20-Jul-15								
Box Culvert L1 & FRP-L - Bay 11											
CUL11920 Culvert L - bay 11 - construct top slab	12	22-Jun-15 A	14-Jul-15								
Box Culvert L1 & FRP-L - Bay 9-11 Others											
CUL11930 Culvert L - bay 9-11 - Upstand Wall	18	20-Jun-15 A	27-Jul-15	_							
CUL11940 Culvert L - bay 9-11 - divert flow to Culvert L	0		31-Jul-15	-		•					
permanent structures (bay 9 to bay 11) CUL12020 Culvert L - bay 9-11 - backfill from top slab to final	60	28-Jul-15	07-Oct-15	-							
formation level Box Culvert L1 & FRP-L - Bay 12 to 13											
Box Culvert L1 & FRP-L - Bay 12 to 13 Piling											
CUL12354 Culvert L - bay 12 - construct pre-bored H-pile (PC9)	12	27-Jun-15 A	14-Jul-15								
Box Culvert L1 & FRP-L - Bay 12 to 13 Temp Work & ELS											
CUL12385 Culvert L - bay 12 - ELS and bulk excavation & Dwall Break Through Ready for Diversion	23	03-Jun-15 A	27-Jul-15								
CUL12405 Culvert L - bay 12 & 13 - extract sheet piles ready for flow diversion (from Bay 4 to Bay 11)	5	27-Jul-15	31-Jul-15								
Section VI C - Area 3, 6, 8A & 8C											
Area 8A & 8C - Seawall Modification											
Modification of Seawall											
Modification of Seawall - Zone 1 & 2											
PRS10043 Sec VIC - Pipe Pile P32 to P62	35	30-May-15 A	10-Aug-15								
PRS10044 Sec VIC - P33, P33A, P34, P34A, P35, P35A	24	11-Aug-15	07-Sep-15	-							
Modification of Seawall - Zone 4	24	T-Aug-15	07-3ch-19								
PRS10160 Sec VIC - Working Platform (Zone 4)	8	11-Aug-15	19-Aug-15	-							
PRS10180 Sec VIC - Pipe Pile P63 to P68 & P64A (Zone 4)	18	20-Aug-15	09-Sep-15								
Area 6 - Box Culvert bay 5-6											
SVIC10000 Sec VI C - [Summary] Construct Box Culvert Bay 5-6	53	18-Apr-15 A	31-Aug-15	1							
Area 3 - Box Culvert bay 4 and Roadwork				1							
SVIC10220 Sec VI C - [Summary] Construct Box Culvert Bay 4 in	53	01-Jan-15 A	31-Aug-15								
Area 3 Section VI D - Area 8B & 10											
WDII Box 1 Construction											
WDII Box 1 Submission and Approval / Material Procurement											
PCU60410 Sec VI D - WD II Box 1 - Prepare Subcontract for Box	60	08 Aug 15	06-Oct-15								
1 structure	60	08-Aug-15	00-0ct-15								
Section VII - Remainder Works											
Landing Steps Construction											

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Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	June 2015	July 2015	August 2015	September 2015	October 2015	November 2015	December 2015 30 07 14 21 28	January 2016	February 2016	March 2016	April 2016	May 2016	June 2016	July 2016	August 2016	Petember 2016
SVII11180	Sec VII - Landing Steps - form temporary access from landing steps to Fleet Acade	5	10-Jun-15 A	06-Jul-15			03 10 17 24		20 03 12 13 20	02 03 10 23	30 07 14 21 20	5 04 11 10 23	01 00 13 22	25 07 14 21 20	04 11 10 23	02 03 10 23		1 10 23	01 00 13 22	23 03 12 13
Demolition o	f Interim Landing Steps and Construct Permanent Se	eawall at CRII	I																	
SVII10160	Sec VII - remove interim landing steps - install silt curtain	3	19-Aug-15	21-Aug-15																
SVII10180	Sec VII - remove interim landing steps - break and remove seawall coping	3	22-Aug-15	25-Aug-15																
SVII10200	Sec VII - remove interim landing steps - open cut behind interim landing steps	3	26-Aug-15	28-Aug-15																
SVII10220	Sec VII - remove interim landing steps - protect open cut slope	2	29-Aug-15	31-Aug-15				1												
Section X - Pr	otection & Preservation of Trees																			
Soft Landsca	ping Works																			
SX10020	Sec X - Protection & Preservation of Trees	753	31-Jan-13 A	21-Jul-17																

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S3-0070-1499 Reinsta ection 7 of the Works - Box Cu ransformer Building for Dining S ABWF Works S7-TB-3100 Landso E&M Works S7-TB-4100 22kV C S7-TB-4300 Transfe S7-TB-4400 Engeriz Overall Testing & Commissionin S7-TB-9000 WSD Ir S7-TB-9100 FSD In ection 8A of the Works - Repro BWF & E&M Installation Roof Works in Area 8 - ABWF Works a S8B-FP-01100 Roof Fi	ulvert N1 & Flood Relief System		11-Aug-12 A 11-Aug-12 A		HK Working			
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S7-TB-3100 Landsco E&M Works S7-TB-4100 22kV C S7-TB-4300 Trans fr S7-TB-4400 Engeriz Overall Testing & Commissionin S7-TB-9000 S7-TB-9100 FSD In action 8A of the Works - Repro BWF & E&M Installation Roof Works in Area 8 - ABWF Works a S8B-FP-01100 Roof Fr			29-Oct-14 A 21-Apr-15		Calendar Day Calendar Day			
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S7-TB-9100 FSD In ection 8A of the Works - Repro BWF & E&M Installation Roof Works in Area 8 - ABWF Works a S8B-FP-01100 Roof File	ng Inspection & Water Cert Approval		25-Mar-15 A 25-Mar-15 A		Calendar Day Calendar Day	WSD Inspection & Water Ce	ert Approval	
BWF & E&M Installation Roof Works in Area 8 - ABWF Works a S8B-FP-01100 Roof Fi	nspection & Fire Cert Approval			04-May-15	Calendar Day	FSD Inspection & Fire Cert		
Roof Works in Area 8 - ABWF Works a S8B-FP-01100 Roof Fi	ovisioning of Wan Chai Ferry Pier in Area 8		28-Oct-13 A 28-Oct-13 A		Calendar Day Calendar Day			
S8B-FP-01100 Roof Fi					Calendar Day			
	at Observation Deck of Ferry Pier		28-Oct-13 A		Calendar Day		- U - 1 -	
	Finishes & Misc. ABWF Installation Tunnel Structure (CH3400 - CH3796)		28-Oct-13 A 11-Mar-15 A	· · ·	Calendar Day	Roof Finishes & Misc. ABWF Inst	allation	
unnel Portion 1 (CH3500-CH3630			15-May-15	26-May-15				
CWB Structural Works Bay 6 (For OHVD Base Slab & S	Side Wall Combined to Ray 5)	9 9		26-May-15 26-May-15				
Wall		9	· · · · · · · · · · · · · · · · · · ·	26-May-15				
	Middle Late Cast) - Rebar Fixing	4	15-May-15		HK Working	· · · · · · · · · · · · · · · · · · ·	iddle Late Cast) - Rebar Fixing	
	Middle Late Cast) - Formwork Middle Late Cast) - Concrete	3	20-May-15 23-May-15		HK Working HK Working		I (Middle Late Cast) - Formwork all (Middle Late Cast) - Concrete	
S9B-T1-B6-1140 Wall (N	Middle Late Cast) - Curing & Formwork Removal	3	24-May-15	26-May-15	Calendar Day		Wall (Middle Late Cast) - Curing & Formwork	Removal
unnel Portion 2 (CH3425-CH3500 CWB Structural Works	00)	79 79	· · ·					
	Head Demolition between TP1 & TP2 @ CH3500 (By Wire cut & Sawcut & Robot)	21		14-May-15	HK Working	Bulk Head Den	nolition between TP1 & TP2 @ CH3500(By Wir	ecut & Sawcut & Robot)
	antle the working platform S4 (Gridline 9B to Gridline 10) Removal	2	15-May-15 18-May-15		HK Working HK Working		ne working platform (Gridline 9B to Gridline 10) Removal	
Bay 1		75						
	South) - Formwork & Concrete	3	20-Apr-15 A	· ·	HK Working	Wall (South) - Formwork & Concrete		
	North) - Formwork & Concrete South) - Curing & Formwork Removal	3	20-Apr-15 A 23-Apr-15	22-Apr-15 25-Apr-15	HK Working Calendar Day	Wall (North) - Formwork & Concrete Wall (South) - Curing & Formwork Remo	oval	
S9B-T2-B1-3150 Wall (N	North) - Curing & Formwork Removal	3	23-Apr-15	25-Apr-15	Calendar Day	Wall (North) - Curing & Formwork Remo	oval	
	D Base Slab - Scaffolding Erection	9	18-Apr-15 A 29-Apr-15	28-Apr-15 04-May-15	HK Working HK Working	│ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │		
	D Base Slab - Waterproofing to Upper Side Wall D Base Slab - Formwork	4	05-May-15	15-May-15	HK Working			
	D Base Slab - Rebar Fixing	4	16-May-15	20-May-15	HK Working		Base Slab - Rebar Fixing	
	D Base Slab - Concrete, Curing & Formwork Dismantling D Hanger Wall - Formwork, Rebar & Concrete	14 3	21-May-15 26-May-15	03-Jun-15 28-May-15	Calendar Day HK Working		OHVD Base Slab - Concrete, Curir	•
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	Remaining Work	.		_ ·	CEDD CONTRACT	NO. HK/2009/02		
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S9B-T2-B1-3220 S9B-T2-B1-3230	Roof - Scaffolding Erection for Roof Roof - Formwork	9	04-Jun-15 12-Jun-15	11-Jun-15 23-Jun-15	HK Working HK Working				Roc
S9B-T2-B1-3230	Roof - Rebar Fixing	10	24-Jun-15	23-Jul-15 06-Jul-15	HK Working				
S9B-T2-B1-3250		10	07-Jul-15	21-Jul-15					
	Roof - Concrete & Curing	70		21-Jul-15 21-Jul-15	Calendar Day				
Bay 2			27-Apr-15			_			_
S9B-T2-B2-3060	Wall (South) - Formwork & Concrete	3	27-Apr-15	29-Apr-15	HK Working			Formwork & Concrete	
S9B-T2-B2-3070	Wall (North) - Formwork & Concrete	3	27-Apr-15	29-Apr-15	HK Working		1 1 1	ormwork & Concrete	1
S9B-T2-B2-3090	Wall (South) - Curing & Formwork Removal	3	30-Apr-15	02-May-15	Calendar Day		1 .	n) - Curing & Formwo	1
S9B-T2-B2-3100	Wall (North) - Curing & Formwork Removal	3	30-Apr-15	02-May-15	Calendar Day		Wall (North	i) - Curing & Formwo	
S9B-T2-B2-3110	OHVD Base Slab - Scaffolding Erection	9	04-May-15	13-May-15	HK Working				- Scaffolding Erection
S9B-T2-B2-3120	OHVD Base Slab - Waterproofing to Upper Side Wall	4	14-May-15	18-May-15	HK Working			OHVD Bas	se Slab - Waterproofing to
S9B-T2-B2-3130	OHVD Base Slab - Formwork	10	19-May-15	30-May-15	HK Working				OHVD Base Slab -
S9B-T2-B2-3140	OHVD Base Slab - Rebar Fixing	4	01-Jun-15	04-Jun-15	HK Working				OHVD Base
S9B-T2-B2-3150	OHVD Base Slab - Concrete, Curing & Formwork Dismantling	14	05-Jun-15	18-Jun-15	Calendar Day				
S9B-T2-B2-3160	OHVD Hanger Wall - Formwork, Rebar & Concrete	3	08-Jun-15	10-Jun-15	HK Working				OHV
S9B-T2-B2-3170	Roof - Scaffolding Erection for Roof	7	19-Jun-15	27-Jun-15	HK Working				
S9B-T2-B2-3180	Roof - Formwork	9	29-Jun-15	09-Jul-15	HK Working				
S9B-T2-B2-3190	Roof - Rebar Fixing	10	10-Jul-15	21-Jul-15	HK Working				
Bay 3		67	20-Apr-15 A	18-Jul-15					
S9B-T2-B3-3060	Wall (South) - Formwork & Concrete	3	04-May-15		HK Working			South) - Formwork &	
S9B-T2-B3-3070	Wall (North) - Formwork & Concrete	3	04-May-15	06-May-15	HK Working			North) - Formwork &	Concrete
S9B-T2-B3-3080	Wall (Middle) - Curing & Formwork Removal	3	20-Apr-15 A		Calendar Day	Wall (Formwork Removal	
S9B-T2-B3-3090	Wall (South) - Curing & Formwork Removal	3	07-May-15	09-May-15	Calendar Day		1		Formwork Removal
S9B-T2-B3-3100	Wall (North) - Curing & Formwork Removal	3	07-May-15	09-May-15	Calendar Day		— w	· / ·	Formwork Removal
S9B-T2-B3-3110	OHVD Base Slab - Scaffolding Erection	9	14-May-15	23-May-15	HK Working				VD Base Slab - Scaffoldii
S9B-T2-B3-3120	OHVD Base Slab - Water proofing to Upper Side Wall	4	26-May-15	29-May-15	HK Working				🔲 🛛 🛛 🖉 🔲 🖉
S9B-T2-B3-3130	OHVD Base Slab - Formwork	10	30-May-15	10-Jun-15	HK Working				OH/
S9B-T2-B3-3140	OHVD Base Slab - Rebar Fixing	4	11-Jun-15	15-Jun-15	HK Working				
S9B-T2-B3-3150	OHVD Base Slab - Concrete, Curing & Formwork Dismantling	14	16-Jun-15	29-Jun-15	Calendar Day				
S9B-T2-B3-3160	OHVD Hanger Wall - Formwork, Rebar & Concrete	3	19-Jun-15	23-Jun-15	HK Working				
S9B-T2-B3-3170	Roof - Scaffolding Erection for Roof	7	30-Jun-15	08-Jul-15	HK Working				
S9B-T2-B3-3180	Roof - Formwork	9	09-Jul-15	18-Jul-15	HK Working				
Bay 4		73	21-Apr-15	18-Jul-15					
S9B-T2-B4-3040	Wall (North) - Rebar Fixing	3	21-Apr-15	23-Apr-15	HK Working	🗖 Wall	(North) - Rebar Fi	xing	
S9B-T2-B4-3050	Wall (Middle) - Formwork & Concrete	3	23-Apr-15	25-Apr-15	HK Working	— W	all (Middle) - Form	work & Concrete	
S9B-T2-B4-3060	Wall (South) - Formwork & Concrete	3	11-May-15	13-May-15	HK Working			Wall (South) - For	rmwork & Concrete
S9B-T2-B4-3070	Wall (North) - Formwork & Concrete	3	11-May-15	13-May-15	HK Working			Wall (North) - For	
S9B-T2-B4-3080	Wall (Middle) - Curing & Formwork Removal	3	26-Apr-15	28-Apr-15	Calendar Day		Wall (Middle) - C	uring & Formwork Re	emoval
S9B-T2-B4-3090	Wall (South) - Curing & Formwork Removal	3	14-May-15	16-May-15	Calendar Day			Wall (South)	- Curing & Formwork Re
S9B-T2-B4-3100	Wall (North) - Curing & Formwork Removal	3	14-May-15	16-May-15	Calendar Day			, ,	- Curing & Formwork Re
S9B-T2-B4-3110	OHVD Base Slab - Scaffolding Erection	9	26-May-15	04-Jun-15	HK Working				OHVD Base
S9B-T2-B4-3120	OHVD Base Slab - Waterproofing to Upper Side Wall	4	05-Jun-15	09-Jun-15	HK Working				
S9B-T2-B4-3130	OHVD Base Slab - Formwork	10	10-Jun-15	22-Jun-15	HK Working				
S9B-T2-B4-3140	OHVD Base Slab - Rebar Fixing	4	23-Jun-15	26-Jun-15	HK Working				
S9B-T2-B4-3150	OHVD Base Slab - Concrete, Curing & Formwork Dismantling	14	27-Jun-15	10-Jul-15	Calendar Day				
S9B-T2-B4-3160	OHVD Hanger Wall - Formwork, Rebar & Concrete	3	30-Jun-15	03-Jul-15	HK Working				
S9B-T2-B4-3170	Roof - Scaffolding Erection for Roof	7	11-Jul-15	18-Jul-15	HK Working				
Bay 5		76	21-Apr-15	22-Jul-15					
S9B-T2-B5-3010 S9B-T2-B5-3030	Wall (Middle) - Rebar Fixing Wall (South) - Rebar Fixing	4	21-Apr-15 21-Apr-15	24-Apr-15 23-Apr-15	HK Working HK Working		ll (Middle) - Rebar (South) - Rebar Fi	0	
S9B-T2-B5-3030 S9B-T2-B5-3040	Wall (North) - Rebar Fixing Wall (North) - Rebar Fixing	3	21-Apr-15 21-Apr-15	23-Apr-15 23-Apr-15	HK Working HK Working		(Sputh) - Rebar Fi (North) - Rebar Fi	•	
						vvai	·'		
S9B-T2-B5-3050 S9B-T2-B5-3060	Wall (Middle) - Formwork & Concrete	3	29-Apr-15	02-May-15	HK Working			e) - Formwork & Con	1
	Wall (South) - Formwork & Concrete	3	18-May-15	20-May-15	HK Working			,	outh) - Formwork & Con
S9B-T2-B5-3070	Wall (North) - Formwork & Concrete	3	18-May-15	20-May-15	HK Working				orth) - Formwork & Con
S9B-T2-B5-3080	Wall (Middle) - Curing & Formwork Removal	3	03-May-15	05-May-15	Calendar Day		vvaii (IV	1iddle) - Curing & For	
S9B-T2-B5-3090	Wall (South) - Curing & Formwork Removal	3	21-May-15	23-May-15	Calendar Day				I (South) - Curing & Forr
S9B-T2-B5-3100	Wall (North) - Curing & Formwork Removal	3	21-May-15	23-May-15	Calendar Day			Wal	I (North) - Curing & Forr
S9B-T2-B5-3110	OHVD Base Slab - Scaffolding Erection	9	05-Jun-15	15-Jun-15	HK Working				
S9B-T2-B5-3120	OHVD Base Slab - Waterproofing to Upper Side Wall	4	16-Jun-15	19-Jun-15	HK Working				
S9B-T2-B5-3130	OHVD Base Slab - Formwork	10	22-Jun-15	03-Jul-15	HK Working				
S9B-T2-B5-3140	OHVD Base Slab - Rebar Fixing	4	04-Jul-15	08-Jul-15	HK Working				
S9B-T2-B5-3150	OHVD Base Slab - Concrete, Curing & Formwork Dismantling	14	09-Jul-15	22-Jul-15	Calendar Day				
S9B-T2-B5-3160 Bay 6	OHVD Hanger Wall - Formwork, Rebar & Concrete	3 58	13-Jul-15 15-May-15	15-Jul-15 24-Jul-15	HK Working				
S9B-T2-B6-1010	Base Slab - Waterproofing	4	15-May-15	19-May-15	HK Working			Base Slat	b - Waterproofing
S9B-T2-B6-1020	Base Slab - Formwork & Rebar Fixing	14	20-May-15	05-Jun-15	HK Working		1		Base Slab
S9B-T2-B6-1030	Base Slab - Concrete & Curing	5	06-Jun-15	10-Jun-15	Calendar Day				Bas
S9B-T2-B6-3000	Wall (South) - Waterproofing	4	11-Jun-15	15-Jun-15	HK Working				
S9B-T2-B6-3010	Wall (Middle) - Rebar Fixing	4	11-Jun-15	15-Jun-15	HK Working				
S9B-T2-B6-3020	Wall (North) - Waterproofing	4	11-Jun-15	15-Jun-15	HK Working				
						· · · · · · · · · · · · · · · · · · ·		Date	Revision
	Remaining Work				CEDD CONTRAC	CT NO. HK/2009/02		20-Apr-15 3M	
	Actual Work	1	Wan Chai	Developm	ent Phase II - Co	ntral-Wan Chai Bypass at W	an Chai	20-Sep-14 Re	
		· · · ·						20-06p-14 Re	
後:	和一中國中鐵聯營 NWO-CRGL JOINT VENTURE				East /C	ontract 2)			

- CRGL JOINT VENTURE

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oldina Ere	ction for Roof	67	68
	Formwork		
	Roof -	Rebar Fixing	rata 8 Curing
		Roof - Conc	crete & Curing
Side Wall			
k bar Fixing	1		
VD Base	Slab - Concrete, (Curing & Formwork Dism	antling
	ormwork, Rebar & Roof - Scaffolding		
		of - Formwork	
		Roof - Reb	ar Fixing
n			
fing to Up	per Side Wall		
Slab - Forr	1		
	- Rebar Fixing	b - Concrete, Curing & F	ormwork Dismantling
		ormwork, Rebar & Concr	-
	Roo	f - Scaffolding Erection fo	
		Roof - Formwor	k
offolding	Fraction		
affolding I ab - Wate	r proofing to Upper	r Side Wall	
OHVD	Base Slab - Form	work	
	HVD Base Slab - I	-	ete, Curing & Formwork D
		nger Wall - Formwork, Re	-
		Roof - Scaffoldi	ng Erection for Roof
mov al			
noval Base Slat	- Scaffolding Ere	ction	
	-	ofing to Upper Side Wall	
		se Slab - Formwork	
	OH	VD Base Slab - Rebar Fix	king se Slab - Concrete, Curin
			- Formwork, Rebar & Co
rk & Reba	ar Fixing		
oncrete &			
outh) - Wa	aterproofing		
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vity ID	Activity Name	OD	Start	Finish	Calendar				2015
					L L		Apr 64	65	Jur 66
S9B-T2-B6-3030	Wall (South) - Rebar Fixing	3	16-Jun-15	18-Jun-15	HK Working				
S9B-T2-B6-3040	Wall (North) - Rebar Fixing	3	16-Jun-15	18-Jun-15	HK Working				
S9B-T2-B6-3050	Wall (Middle) - Formwork & Concrete	3	16-Jun-15	18-Jun-15	HK Working				
S9B-T2-B6-3060	Wall (South) - Formwork & Concrete	3	19-Jun-15	23-Jun-15	HK Working				
S9B-T2-B6-3070	Wall (North) - Formwork & Concrete	3	19-Jun-15	23-Jun-15	HK Working				
S9B-T2-B6-3080	Wall (Middle) - Curing & Formwork Removal	3	19-Jun-15	21-Jun-15	Calendar Dav				
S9B-T2-B6-3090	Wall (South) - Curing & Formwork Removal	3	24-Jun-15	26-Jun-15	Calendar Dav				
S9B-T2-B6-3100	Wall (North) - Curing & Formwork Removal	3	24-Jun-15	26-Jun-15	Calendar Day				
S9B-T2-B6-3110	OHVD Base Slab - Scaffolding Erection	9	27-Jun-15	08-Jul-15	HK Working				
S9B-T2-B6-3120	OHVD Base Slab - Waterproofing to Upper Side Wall	4	09-Jul-15	13-Jul-15	HK Working				
S9B-T2-B6-3130	OHVD Base Slab - Formwork	10	14-Jul-15	24-Jul-15	HK Working				
	nel Portion 4 (CH3630-CH3790)	-	11-Mar-15 A	19-Jan-16	HK Working				
Foundation			18-Apr-15 A		HK Working				
	/all after HHR Flyover Diversion (Stage 2) (P132-P143)	7	18-Apr-15 A	· · ·	HK Working				
S9B-T34-1700	Tunnel Portion 3 & 4 Pumping test	7	18-Apr-15 A		HK Working			Tunnel Portion 3 & 4 Pumping test	
CWB Structural Works	1.0		11-Mar-15 A		HK Working				
S9B-T34-2000B	Tunnel Portion 3 & 4 Excavation (200,000m3 soil @800m3/d) & ELS		11-Mar-15 A		HK Working				
	VB Tunnel Structure (CH3246 - CH3400)	90	07-May-15	22-Aug-15	HK Working				
Tunnel Portion 6 (CH32			07-May-15	<u>_</u>	HK Working				
S10-T6-1020	Tunnel Portion 6 Bored Pile - 13nr. (2 sets @ 14d/pile)	90	07-May-15	22-Aug-15	HK Working				
	s - Remainder of Works	_	13-Feb-15 A	0	Calendar Day				
Marine Works at WCR3			13-Feb-15 A	30-Sep-15	Calendar Day				
S11-R3-1210B	Air lifting for removal of sunken objects (VO203)		13-Feb-15 A		Calendar Day Calendar Day				
	· · · · ·					1			1
S11-R3-1210C	Removal of sunken objects	92	01-Jul-15	30-Sep-15	Calendar Day Calendar Day				
Soft Landscaping & Es			24-Feb-10 A	0					
	s - Establishment Works in Area 8	365	21-Apr-15	19-Apr-16	Calendar Day		<u></u>		
S8D-0010	Carry out establishment work on new ferry pier	365	21-Apr-15	19-Apr-16	Calendar Day				1
	s - Protection and Preservation of Existing Trees	2375		29-Aug-16	Calendar Day				
S12-0010	Protection and preservation of existing trees		24-Feb-10 A	0	Calendar Day				:
SUMMARY PROGRAM			07-May-13 A		Calendar Day				
	tion & Remaining Works (Section 9A, 9B, 10 & 11)		30-Aug-14 A		Calendar Day				
CWB Tunnel Works in			19-Jan-15 A	`	Calendar Day				
SUM-CWB-23000	CWB Tunnel Portion 2 Construction		19-Jan-15 A		Calendar Day				
CWB Tunnel Works in			30-Aug-14 A		Calendar Day				
SUM-CWB-30000	Reclamation at WCR3 & Ferry Pier Demolition (Except Water Channel Maintained for HK/200		30-Aug-14 A		Calendar Day	1			I
SUM-CWB-35000B	Foundation for Tunnel Portion 6 - Bored Pile		07-May-15	•	Calendar Day				!
_CWB Tunnel Works in		_	11-Mar-15 A		Calendar Day				
SUM-CWB-42000	Pump Test & Excavation for Tunnel Portion 3&4		11-Mar-15 A		Calendar Day				
	ting Facilities (Section 3, 4A, 4B, 4C, 5, 6, 7, 8A & 8B)		07-May-13 A	04-May-15	Calendar Day				
Reprovisioning of Box			08-Oct-14 A		Calendar Day				
SUM-FAC-52000	VO116 - New Transformer Building to Ferry Pier		08-Oct-14 A	,	Calendar Day			VO116 - New Transformer Bui	lding to Ferry Pier
Reprovisioning of Wa	n Chai Ferry Pier & Covered Walkway (Section 8A & 8B)	150	07-May-13 A	30-Apr-15	Calendar Day				
SUM-FAC-65000	ABWF Works on Observation Deck under Section 8B	150	07-May-13 A	30-Apr-15	Calendar Dav	1		ABWF Works on Observation Deck	under Section 8B

	Remaining Work	CEDD CONTRACT NO. HK/2009/02	Date	Revision	Check
	Actual Work		20-Apr-15	3MRP	
(金 和 - 中 國 中 鎌 聯 發		Wan Chai Development Phase II - Central-Wan Chai Bypass at Wan Chai	20-Sep-14	Revised WP	
	Summary Bar	East (Contract 2)			
CHUN WO - CRGL JOINT VENTURE	Critical Remaining Work	3-MONTH ROLLING PROGRAMME (dd 20-Apr-15)			
	♦ Milestone	5-MONTH KOLLING PROGRAMME (dd 20-Apr-15)			

- CRGL	JOINT VE	ENTURE
1	1.1	
	Jul 67	Aug 68
II (South) - Rebar Fixing II (North) - Rebar Fixing		
ll (Middle) - Formwork & C		
Wall (South) - Formwor Wall (North) - Formwor	k & Concrete	
Wall (Middle) - Curing & F	ormwork Removal ng & Formwork Removal	
Wall (North) - Curir	ng & Formwork Removal	
OH	VD Base Slab - Scaffoldir OHVD Base Slab - Wa	g Erection terproofing to Upper Side
		Base Slab - Formwork
		· · · · · · · · · · · · · · · · · · ·
Air lifting for re	emoval of sunken objects	(VO203)
hecked Approved	_	<u> </u>
	-	3 of 3
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CEDD CONTRACT HK/2009/02

Iý ID. A	ctivily Name	Ong Dur	Actual Start	Actual Finish	Total Ploat Cale	ndar		_		2015				
ree Months Pollir	ng Programme 2015-07-20 (dd 20-Jul-15)						b)L	1	AUG		Sep		Oct	Nov
		-												
A REAL PROPERTY OF A READ REAL PROPERTY OF A REAL P	es (Revised up to EOTO No.12 Issued on 15-Jun-15)													
Contractual Completio														
Soft Landscaping & Est								Sec. Marcon						
	ection 8D Works (1838 days) - Establishment Works in Area 8 (10-Feb-15)	0		20-Jui-15*	-161 Gale	ndar Day		Soction 8D Works	(1836 days) - Establis	mmunt Works in Are	a 8 (10-Feb-15)			
Possession of Site						1						1000010000		
1.14)	ossession of Porton 7 - Eastern Bulkhead	0	16-Sep-15*		-60 Cale	ndar Day					Poss	ession of Portion 7 - East	ern Buikhead	
reliminaries														
terface with Others														
PRE0950 P	ermanent Diversion of Box Culvert M by HK/2009/01	0		20-Jul-15*	-427 Cale	ndar Day		Permanient Diversio	on of Box Culvert M b	y HK/2009/01				
ritical Submission &	Approval					differentiation of	****************	The second second second				*********	********	
RE-SUB-1000B T	emp Covered Walkway Capping Beam - Design Approval by AECOM	30	19-Jun-13 A	16-Aug-15	379 Cal	ndar Day		-	Temp	Covered Walkway	apping Beam - E	esign Approval by AECO	M	
RE-SUB-T010B T	emp Covered Walkway Cover System (PS30.5) - Design Approval by AECOM	30	12-Jun-14 A	16-Aug-15	379 Cale	ndar Day						(30.5) - Design Approval I		
SD for CWB Tunnel									1.000		and a state of the state of the	anist and developments	of needon	
PRE-CSD-2030B T	unnel Portion 2 - Redesigned CWB Tunnel Structure Design Submission Approval by AEC	60	16-Nov-13 A	11-Aug-15	84 Cale	ndar Day			Tunnel Podie	n 2 - Redesioned C	WB Tunnel Struc	ture Design Submission A	corroyal by AECOM	
PRE-CSD-3000B T	unnel Portion 384 - Redesigned Temp D-Wall Submission Approval by AECOM & GEO	30	08-Jun-13 A	19-Aug-15	76 Cale	ndar Day	deterriteries disease					D-Wall Submission Appr		umenter or
	unnel Portion 384 - ELS Submission Approval by AECOM & GEO	60	17-Jan-14 A	18-Aug-15	-225 Cale	ndar Day			Tun	nel Portion 3&4 - EL	S Submission Ac	proval by AECOM & GEO	Timpel Portion 384 - F	S Submission An
PRE-CSD-5000B T	unnel Portion 5 - Temp D-Wall Submission Approval by AECOM & GEO	60	15-Aug-13 A	21-Aug-15	-358 Cale	ndar Day						ission Approval by AECC		
PRE-CSD-5010B T	unnel Portion 5 - ELS Submission Approval by AECOM & GEO	60	09-Apr-15 A	16-Sep-15	-332 Cat	ndar Day						el Pontion 5 - ELS Submis		
ection 3 of the Wor	ks - Reprovisioning of Government Helipad and Public Toilet											er transmitter i beste segurite	Soon Paper of an uy Pacoo	In a circo, render
utstanding Works	and the second and a second seco													
	teinstatement of armour tock, retaining walls & new covered walkway along Expo Drive East	254	11-Aug-12 A	11-Aug-15*	222 (100)	Norking Day			-					
and the second		404	11-Aug-12-A	11-Aug-15-	-20° HK	Working Liay			Renstateme	nt of armour rock, n	itaining walls & ni	w covered waikway along	Expo Drive East, Rein	statement of armou
	orks - CWB Tunnel Structure (CH3400 - CH3796)													
unnel Portion 1 (CH3)	500-GH3630)													
CWB Structural Works														
	Remove Inclined Struts and King Posts (Bay 1 to Bay 6)	45	29-Jun-15 A	08-Aug-15		Norking Day			Remove Inclined	Struts and King Po	sts (Bay 1 to Bay	6) Remove Inclined Strut	ts and King Posts (Bay	to Bay 6)
	Construct Roadside Barriers (Bay 1 to Bay 6)	75	01-Aug-15	30-Od-15	-15 HK	Working Day					_			Construct Roadside
Funnel Portion 2 (CH3-	425-GH3500)											-		
CWB Structural Works	and the second													
S98-T2-5100 C	Construct Roadside Barriers (Bay 1 to Bay 6)	65	03-Sep-15	20-Nov-15	-15 HK	Working Day								
Bay 1					and the second second					*******************	******************			
	Roof - Waterproofing	4	05-Aug-15*	08-Aug-15		Norking Day			Roof - Waterpro	ofing Roof - Waters	prifoon			
	kool - Scalfolding Dismanting	3	20-Jul-15	22+Jul-15	41 HK	Norking Day		Rool + Scalfoldin	ng Dismantling					
Blay 2						100 C								
	toof - Waterproofing	4	10-Aug-15	13-Aug-15		Working Day			Roof • Wa	terproofing				
	toof - Scattolding Dismantling	3	20-Jul-15	22-Jul-15	41 HK	Working Day		Roof - Scatfoldin	ng Dismaniling					
50y 3 \$98-T2-83-3210 R														
	kool - Waterproofing	4	14-Aug-15	18-Aug-15		Working Day		in one of the		I - Waterproofing				
The second of the	Roof - Scaffolding Dismantling	3	20-Jul-15	22-Jul-15	41 HK	Warking Day		Roof - Scatteldin	g Dismantling					
Bay 4 \$98-12-84-3180 R	Roof - Formwork		10.1.1.1.1.1	25-Jul-15	10.000	Indian Del		······································				and reduction of the local data		
	koor - Formwork Roof - Rebar Facing	10	19-Jul-15A			Working Day		Roaf - Form						
and the second se	toor - Kepar Haing toof - Concrete & Curing	10	27-Jul-15	06-Aug-15		Working Day			Rool - Rebar Fixing		100			
	Roof - Concrete & Curing	4	07-Aug-15	20-Aug-15		nda#Day				loof - Concrete & Cu				
		4	21-Aug-15	25-Aug-15		Working Day				Roof - Waterpr				
Bay 5	Roof - Scattolding Dismantling	3	21-Aug-15	24 Aug-15	13 HK	Working Day				Roof - Scattoldin	g Dismanting			and the second second
	Vall (North) - Waterproofing	2	20-Jul-15	21-Jul-15	-30 444	Working Day		West (Marth) 141	former find Mint man	-				
	Val (North) - Rebar Faing (for Bay 5 and Bay 6)	3	20-Jul-15	21-Jul-15				Wat (North) - Wa				in and a second		
	Val (Middle) - Formwork & Concrete		20-Jul-15	24-Jul-15		Working Day Working Day						iking (for Bay 5 and Buy 6	5)	
Contraction of the second s	Vall (North) - Fornwork & Concrete	1						Wall (Middle) - F						
	Vall (Niddle) - Curing & Formwork Removal	-	25-Jul-15 23-Jul-15	28-Jul-15		Working Day			rth) - Formwork & Co					
	Vali (South) - Curing & Formwork Removal	-	18-Jul-15 A	25-Jul-15 21-Jul-15		ndar Day) - Cuting & Formword					
	Vas (Souin) - Curing & Formwork Removal Vall (North) - Curing & Formwork Removal	3				ndar Day	1		ring & Formwork Ren					
	Vali (Norin) - Curing & Formwork Hemovia DHVD Base Slab - Scatfolding Erection	3	29-Jul-15	31-Jul-15		indat Day						g & Famwork Removal		
aspringestin C	suite man and a generally Eldered		01-Aug-15	05-Aug-15	-30 HK	Norking Day			OHVD Base Slab - :	scallolding Erection	OHVD Base Sla	- Scattolding Erection		
											Data	Berten	1 01 1 1	1.1
 Milestone 											Date	Revision	Checked	Approved
Critical Milesto					and the second					20-Ji	IF15	3MRP		-
	CHUN WO - CRGL							09/02						

Critical Milestones
 CHUN WO - CRGL
 JOINT VENTURE
 WD II - Central Wanchai Bypass at Wan Chai East (Contract 2)
 3-MONTH ROLLING PROGRAMME (dd 20-Jul-15)

Page 1 of 2

CEDD CONTRACT HK/2009/02

tivity ID	Aquivity Name	Ong Dur	Scheduled/	Scheduled/	Total Fical Calendar	
		1000	Actual Start	Actual Finish		2015
\$98-T2-85-3120	OHVD Base Slab - Waterproofing to Upper Side Wall	3	01-Aug-15	04-Aug-15	-30 HK Working	Jul Aug Sep Oct Nov
\$98-T2-85-3130	OHVD Base Slab - Formwork	3	05-Aug-15	07-Aug-15	-30 HK Working	OHVD Base Stati - Formwork, OHVD Base Stati - Formwork
\$98-T2-85-3140	OHVD Base Slab - Rebar Fixing	4	08-Aug-15	12-Aug-15	-30 HK Working	OHVD Base State - Rebar Fixing, OHVD Base State - Reiman Fixing
S98-T2-85-3150	OHVD Base Slab - Concrete, Curing & Formwork Dismaniling	14	13-Aug-15	26-Aug-15	-35 Calendar Da	OHVD Base Stab - Concrete, Curing & Formwork Dismantling, OHVD Base Stab - Concrete, Curing &
\$98-T2-85-3160	OHVD Hanger Walt - Formwork, Rebar & Concrete	3	17-Aug-15	19-Aug-15	-24 HK Working	OHVD dase sail - Concrete, Curing & Formwork, Demanding, OHVD dase saib - Concrete, Curing & Concrete, OHVD Hanger Wall - Formwork, Rebar & Concrete
\$98-T2-85-3170	Root - Scatfolding Erection for Roof	7	27-Aug-15	03-Sep-15	-30 HK Working	
\$98-T2-85-3180	Root - Formwork	-	04-Sep-15	14-Sep-15	-30 HK Working	Roof - Scatfolding Erection for Roof, Roof - Scatfolding Erection for Roof
S9B-T2-85-3190	Roof - Rebar Flixing	10	15-Sep-15	25-Sep-15	-30 HK Working	Roof - Formwork Roof - Formwork
S98-T2-85-3200	Roof + Concrete & Curing	24	26-Sep-15	09-Oct-15	-35 Calendar Da	Roof - Rebar Fixing, Roof - Rebar Fixing
S98-T2-85-3210	Roof - Witterproching		10-Oct-15	14-Oct-15	65 HK Working	Roof - Concrete & Guring, Roof - Gonzete & C
59B-T2-B5-3220	Roof - Scaffolding Dismanting		10-0d-15	13-Oct-15		Roof - Waterprofing
396-12-65-3220 Bay 6	Root - scanoiding Dismanning	.4	10-04-15	13-00-15	-28 HK Working	Root - Scalfolding Diamantling, Root - Sc
\$98-T2-86-1010	Base Slab - Waterproofing	4	20-Jul-15	23-Jul-15	-19 HK Working	Base Stab - Waterproofing, Base Stab - Waterproofing
S9B-T2-B6-1020	Base Slab - Formwork & Rebar Fixing	14	24-Jul-15	08-Aug-15	-19 HK Working	Base Slab - Formwork & Rebar Fixing, Base Slab - Formwork & Rebar Faxing
S98-T2-86-1030	Base Stab - Concrete & Curing		09-Aug-15	13-Aug-15	-22 Calendar Da	
\$98-T2-86-3170	Roof - Scelfolding Erection for Roof	2	27-Aug-15	03-Sep-15	-30 HK Working	Base Slab - Concrete & Curing, Base Slab - Concrete & Curing
S98-T2-86-3180	Roof - Formwork		04-Sep-15	14-Sep-15	-30 HK Warking	Rod - Scaffolding Erection for Roof - Scaffolding Erection for Roof - Scaffolding Erection for Roof
S98-T2-86-3190	Roof - Réber Ficino	40	15-Sep-15	25-Sep-15	-30 HK Working	Rool - Formwork, Rool - Formwork
S98-T2-86-3200	Roof - Concrete & Caring	10	26-Sep-15	09-Oct-15		Roof - Rebar Fising, Roof - Rebar Fising
\$98-TZ-86-3210	Roof - Waterproofing	14	Sectores to	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-35 Calendar Da	Roof - Consette & Curing, Roof - Concette & C
S98-T2-88-3220	Constant and the second s	4	15-0ct-15	19-Oct-15	65 HK Working	Root - Waterproofing
and the second second second second	Roof - Scatfolding Dismunting	3	10-0d-15	13-0d-15	-28 HK Working	Roof - Scatfolding Dismanting. Roof - Scatfolding Dismanting. Roof - Scatfolding Dismanting.
	8 Tunnel Portion 4 (CH3630-CH3790)					
CWB Structural Wo						
\$98-T34-2000B	Tunnel Portion 3 & 4 Excavation to Formation Level (200.000m3 soil and rock@1100m3/d) &		13-Feb-15 A	14-Nov-15	-250 HK Working	F T
\$9B-T34-3500	Rock Excavation and Rock Bell Installation	21	10-0ct-15	04-Nov-15	-174 HK Working	Rock Excavat
Section 11 of the	e Works - Remainder of Works					
Marine Works at V	VCR3					
S11-R3-1300	1st Stage Rockfilling after Removal of unknown metal objects	40	14-Jul-15 A	70-Sep-15	-602 Calendar Da	1st Stage Rockfilling after Removal of unknown metal objects. Tsi Stag
\$11-R3-1400	Installation of Permanent Seawall (5 nos.)	14	21-Sep-15	08-0d-15	-480 HK Working	Installation of Permanent Snawell (5 nos.), Installation
S11-R3-1500	2nd Stage Rockfilling after installation of Caisson Seawali	40	09-Dct-15	25-Nov-15	480 HK Working	1
\$11-R3-1600	1st Redamation to -7,0mPD	39	01-Aug-15	15-Sep-15	422 HK Working	1st Redamation to -7 0mPD, 1st Redamation to -7 0mPD
S11-R3-1700	Installation of Permanent Seawall Block	14	09-Od-15	26-0d-15	-424 HK Working	Instaliation of Permanent
Soft Landscapin	g & Establishment Works					and a second sec
and the second se	Works - Establishment Works in Area 8					
S8D-0019	Carry out establishment work on new ferry pier	365	20-Jul-15	18-Jul-16	+526 Calendár Da	
- extension of the second	Works - Protection and Preservation of Existing Trees	202	20-20-13	10-20-16	-326 Calendar Da	
512-0010	Protection and preservation of existing trees					
a calor to		2375	24-Feb-10 A	29-Aug-16	0 Calendar Da	
SUMMARY PRO						
and the second se	struction & Remaining Works (Section 9A, 9B, 10 & 11)					
CWB Tunnel Work:						
SUM-CWB-23000	CWB Tunnel Portion 2 Construction	261	19-Jan-15 A	09-Oct-15	-35 Calendar Da	
CWB Tunnel Work	s in WCR3					
SUM-CWB-30000C	Reclamation at WCR3	174	14-Jul-15 A	28-Jan-16	-600 Galendar Da	
CWB Tunnel Work	s in WCR4/TWCR4					
SUM-CWB-42000	Pump Test & Excavation for Tunnel Portion 364	230	13-Feb-15 A	14-Nov-15	-313 Calendar Da	

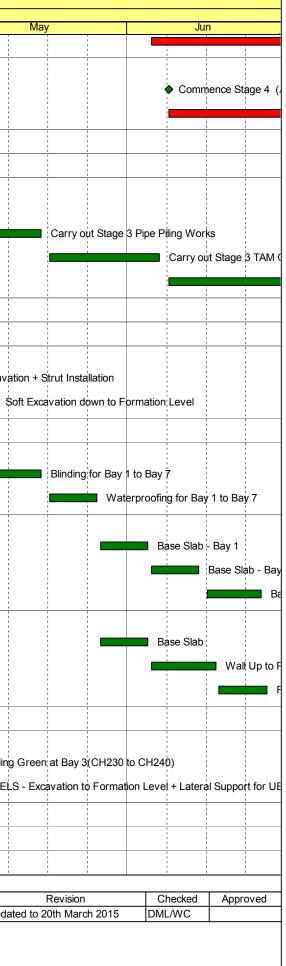
Milestone Critical Milestones		Date 20-Jul-15	Revision 3MRP	Checked	Approved
Critical Works	CEDD CONTRACT NO. HK/2009/02 WD II - Central Wanchai Bypass at Wan Chai East (Contract 2)	1			
	3-MONTH ROLLING PROGRAMME (dd 20-Jul-15)				

Page 2 of 2

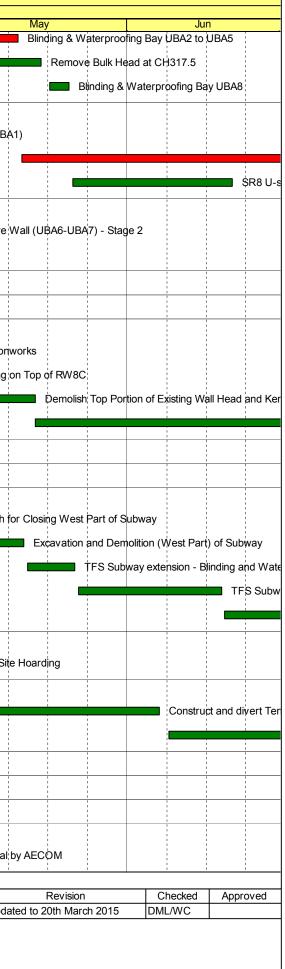
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vity ID Activity Name	Original Duratior		Finish				2015
				N I I I I I I I I I I I I I I I I I I I	Mar	Apr	
DWP-06 (A) - Update Progress As of 20 Mar 15							
Works in TS3							
TS3 East & West Reclamation Works							
TS3W - Reclamation Works (new scheme)	40	20 Dec 44 A	05 Mar 45	_			
TS3W.MW.2110 TS3W - General Fill Area 2 (3 Barges)	40	20-Dec-14 A	25-Mar-15			- General Fill Area 2 (3 E	
TS3W.MW.2140 TS3W - Handover to D-wall (Phase 1)	0		20-Mar-15		153W - Hand	dover to D-wall (Phase 1)	
TS3W.MW.2120 TS3W - General Fill Area 3 (1 Barges)	22	08-Apr-15	29-Apr-15				TS3W - Ge
TS3W.MW.2190 TS3W - Completion of Reclamation Works	0		29-Apr-15				◆ TS3W - Co
TS3W - North							
TS3W.MW.2040 TS3W North - Rockfill	21	21-Jan-15 A	21-Mar-15		TS3W Nort	h - Rockfill	
TS3W.MW.2040A TS3W North - Levelling	4	22-Mar-15	25-Mar-15		тззү	North - Levelling	
TS3W.MW.2060 TS3W North - Phase 2 Seawall Block Installation	13	26-Mar-15	07-Apr-15			TS3W North - F	Phase 2 Seawall Block I
Works in TS3-East	,						
Diaphragm Wall							
TS3-East Diaphragm Construction							
TS3E_3120 Diaphragm wall construction Phase 2 (34/50 panels @ proposed bulkhead)	80	21-Feb-15 A	28-Apr-15				Diaphragm v
Works in SR8 (Open Cut Method)							
SR8 - Cofferdam & Cut & Cover Tunnel Works							
SR8 East Bound - (Seaside to Victoria Road / IEC Central Divider)							
Method Statement							
ELS							
SR8_2260 ELS Method statement - submission	24	29-May-15	26-Jun-15			\mathbf{N}	
TTA Stage 1 - East Bound							
Stage 2 - East Bound (Ref. DRG. No.CDD/SR8/083)							
	CO	11 Eab 15 A	45 Apr 45				
SR8.EB.1530 Construct IEC East Bound Up Ramp	60	11-Feb-15 A	15-Apr-15				ruct IEC East Bound U
SR8.EB.1385 Install Dewatering Wells and Observation Wells & Pump Test	14	11-Mar-15 A	20-Mar-15 A		Install Dewate	ring Wells and Observat	
SR8.EB.1390 Construct Traffic Deck	35	18-Mar-15 A	02-Apr-15			Construct Traffic Deck	
SR8.EB.1380 Demolish part of the Wing Wall of Abutment M	14	20-Mar-15	09-Apr-15			Demolish par	t of the Wing Wall of At
TTA Stage 2 - East Bound							
Stage 3 - East Bound (Ref. DRG. No.CDD/SR8/084)							
SR8.EB.1410 Implement TTA Stage 2 - Traffic Diversion at East Bound (DRG REF.4843/011/03 4843/011/040B)	30B and 0	19-Apr-15				♦ Ir	nplement TTA Stage 2
SR8.EB.1420 Demolish Part of EB Existing Abutment M and Part of the Central Divider	12	20-Apr-15	04-May-15				Demo
SR8.EB.1430 Carry out Pre-boring for Sheet Pile	24	20-Apr-15	18-May-15			-	
SR8.EB.1440 Carry out Stage 3 - Sheet Pile Work	21	13-May-15	06-Jun-15	_			
		4 - 5 5		L			Date
Actual Work	rage	1 of 5					20-Mar-15 Upd
	ork Co	ontract No.	HY/2010/08:	Central - V	Vanchai Bypas	s Tunnel +(Slip	
 ♦ Milestone 		Roa	d 8 Section)	- 3 Month	s Rolling Proga	amme	

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: + Traffic I	Diversion	at East	Boui	nd (E	RG REF	.4843/0 ⁻	1/030B
holish Part	of EB Ex	kisting Ab	utm	ent N	and Pa	rt of the	Central
	Carn	out Pre-	bori	na fa	r Shoot	Dila	
	_ Carry	outrie	001	ng ic			
	1	1			Carry ou	t Stage	3 - Shee
	Revision				hecked	Appr	oved
dated to 2	0th Marc	h 2015		DML	_/WC		

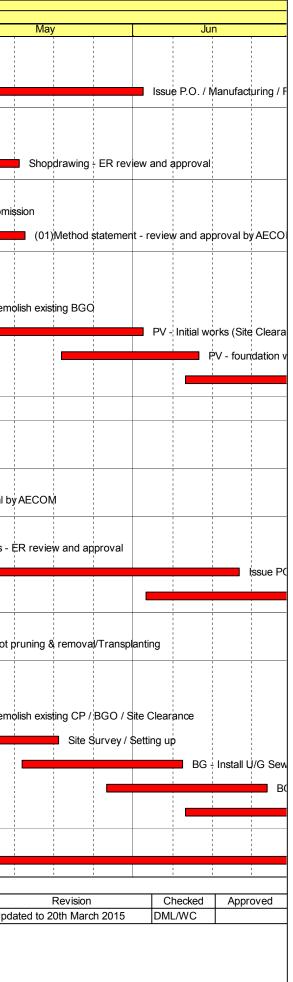
		Original Duration			Ma			A	20)15	
SR8.EB.1450	Carry out Stage 3 - Pipe Piling Work	60	05-Jun-15	15-Aug-15	Ma			Apr			-
Stage 4 - East Bo	und (Ref. DRG. No.CDD/SR8/084)										-
SR8.EB.1470	Commence Stage 4 (After Completion of reclamation works)	0	08-Jun-15								
SR8.EB.1480	Carry out Stage 4 Sheet Piling Works	24	08-Jun-15	07-Jul-15							
SR8 West Bound	• Ch. 459.000 to 385.000 (Victoria Road / IEC Central Divider)										-
TTA Stage 2 - Wes	t Bound										
Stage 3 - West Bo	und (Ref. DRG. No.CDD/SR8/087)										
SR8.WB.3030	Carry out Stage 3 Sheet Pile works	27	17-Feb-15 A	20-Mar-15 A		Carry ou	t Stage 3 She	eet Pile works			
SR8.WB.3040	Carry out Stage 3 Pipe Piling Works	45	20-Mar-15 A	16-May-15							Ĺ
SR8.WB.3050	Carry out Stage 3 TAM Grout	17	18-May-15	06-Jun-15							
SR8.WB.3060	Install Dewatering Wells & Carry out Pump Test	20	08-Jun-15	02-Jul-15				J			ļ
SR8 Ch.385.000 to	o Ch.317.500 - (Inside Victoria Park to Tunnel Portal)										
SR8 Tunnel - ELS	CCT / BF Works (7 Bays Ch. 385.000 to Ch.317.500)										
ELS											
SR8.VP.5070A	ELS Layer 3 - Soft Excavation + Strut Installation	8	11-Feb-15 A	18-Apr-15				EL	S Layer 3	- Soft Excav	at
SR8.VP.5080	Soft Excavation down to Formation Level	16	20-Apr-15	08-May-15				-			; \$c
Portal Structure											
Blinding + Water	proofing										
SR8.VP.5030	Blinding for Bay 1 to Bay 7	7	08-May-15	16-May-15						-	ļ
SR8.VP.5090	Waterproofing for Bay 1 to Bay 7	7	18-May-15	26-May-15							
Base Slab + Drai	nage										
SR8.VP.5100	Base Slab - Bay 1	8	27-May-15	04-Jun-15							
SR8.VP.5110	Base Slab - Bay 2	8	05-Jun-15	13-Jun-15							
SR8.VP.5120	Base Slab - Bay 3	8	15-Jun-15	24-Jun-15							
Pump Sump E											
SR8.VP.5360	Base Slab	8	27-May-15	04-Jun-15							
SR8.VP.5370	Wall Up to Portal Base Slab Bottom	10	05-Jun-15	16-Jun-15							
SR8.VP.5380	Fill Up Void Up to Portal Base Slab Bottom	7	17-Jun-15	25-Jun-15							ļ
SR8 Ch 317.500 t	o Ch 210.000 - U-Structure & Slab (Victoria Park)										-
Excavation and La	teral Support										-
SR8_2300	Form Temporary Access to Bowling Green at Bay 3(CH230 to CH240)	7	20-Mar-15 A	11-Apr-15	_			Form Temp	orary Acce	ss to Bowlir	ŋg
SR8_2310	ELS - Excavation to Formation Level + Lateral Support for UBA2 to UBA5	21	13-Apr-15	07-May-15						E	L
RC CCT & Backfill	Ch317.5000 to Ch240.000										
Structure											
Blinding + Water	proofing										
								1 I I I			<u>:</u>
	Actual Work	Page	2 of 5						Date		
	Remaining Work						pass Tun		20-Mar-1	15 Upd	at



Acti	vity ID	Activity Name		Original Duration	Start	Finish			A	2)15	
	SR8_1830	Blinding & Waterproofing Bay UBA2 to UBA5		4	08-May-15	12-May-15	Mar		Apr			
	SR8_1840	Remove Bulk Head at CH317.5		7	09-May-15	16-May-15						
	SR8_1860	Blinding & Waterproofing Bay UBA8		4	18-May-15	21-May-15						
	Base Slab											
	SR8_1801	Remove SL3 - (UBA6 - UBA7 & UBA1)		14	20-Mar-15	09-Apr-15			Remove SL3	- (UBA6 -	UBA7	& UBA
		SR8 U-structure Base slab (UBA2 - UBA5)		48	13-May-15	10-Jul-15	-					
	SR8_1812	SR8 U-structure Base slab (UBA8)		24	22-May-15	19-Jun-15	_					
	Wall				,							
	SR8_1850B	SR8 U-structure Wall (UBA6-UBA7) - Stage 2		14	23-Feb-15 A	25-Apr-15					etru	ucture V
						· · · · · · · · · · · · · · · · · · ·	_			1	1	1
	SR8_1850A	Remove SL2, 1 (UBA6-UBA7)		14	20-Mar-15	09-Apr-15			Remove SL2,	1 (UBA6-	UBA7)	<u> </u>
		/ & Subway Extension & Toe Wall at Hing	Fat St							 		
	Ret. Wall & TF Sul	bway Extension (Portion V)										
	Retaining Wall RW	V8C at Tsing Fung Street (Portion V)										1
	VP_1370	TFS New Ret. Wall - backfilling & compactionv	vorks	24	01-Dec-14 A	02-Apr-15			S New Ret. Wall - b	ackfilling &	comp	action
	VP_1770	Install Steel Railing on Top of RW8C		14	08-Apr-15	23-Apr-15				Install S	Steel F	≀ailing o
	VP_1390	Demolish Top Portion of Existing Wall Head an	d Kerb	18	23-Apr-15	15-May-15						
	VP_1400	Road Formation - Subbase + Kerb + U-shape	Channel	48	15-May-15	14-Jul-15						
	Retaining Wall + Toe Wall at Hing Fat Street											
	Subway Extension	n at Tsing Fung Street (Portion VIII)										
	West Side											
	VP_1330	Divert Footpath for Closing West Part of Subw	/ay	2	24-Apr-15	25-Apr-15	-			Dive	rt Foo	tpath fc
	VP_1365	Excavation and Demolition (West Part) of Sub	way	14	27-Apr-15	13-May-15	-					
	VP_1375.10	TFS Subway extension - Blinding and Waterpr	oofing	8	14-May-15	22-May-15						
	VP_1375.20	TFS Subway extension - Base slab + Drainage	9	21	23-May-15	17-Jun-15	-					
	VP_1375.30	TFS Subway extension - Walls		18	18-Jun-15	10-Jul-15						
	Tree Transplanting	g at Portion VIII (Tree Zone 20) (6 trees)										
	VP_1700	Preparation and Site Hoarding		36	19-Sep-14 A	23-Apr-15				Prepar	ation a	and Site
	RC Works - Toe W	/all (RW8E)										
	VP_6152	Construct and divert Temporary Footpath		36	24-Apr-15	06-Jun-15	-					
	VP_6160	Sheet Piling and Excavation to Formation leve		45	08-Jun-15	31-Jul-15	-					
	Works in Victor	ia Park										
	Re-Provisioning W											
	Pavilion											
	Temp. Works Desi	ian										
	VP_0230	(01) Temp. Work Design - review and approva	al by AECOM	24	27-Feb-15 A	31-Mar-15		(01)	Temp. Work Design	- review a	nd an	provalit
	VI _0200			21	27100107				Temp. Work Design			
-			Actual Work	Page	3 of 5					Dat	e	
			Remaining Work							20-Mar-2	15	Updat
			Critical Remaining Work	Co			Central - Wancha	•••	-			
			♦ Milestone		Roa	a & Section)	- 3 Months Rollin	ig Progamm	ie			



y ID	Activity Name	Original Duration	Start	Finish	2015 Mar Apr
Materials Submis	ssion				
VP_6650	Materials - ER review and approval	24	23-Feb-15 A	31-Mar-15	Materials - ER review and approva
VP_6660	Issue P.O. / Manufacturing / Fabrication	48	01-Apr-15	02-Jun-15	
Shop Drawings					
VP_0195	Shopdrawing submission	7	12-Mar-15 A	11-Apr-15	Shopdrawing submission
VP_0215	Shopdrawing - ER review and approval	24	13-Apr-15	11-May-15	
Method Statemer	nt				
VP_6680	(01) Method statement - submission	7	01-Apr-15	13-Apr-15	(01) Method statement - s
VP_6690	(01)Method statement - review and approval by AECOM	24	14-Apr-15	12-May-15	
Construction Wo	orks - BG Pavillion				
VP_1310	PV - Site Possession, Portion VI/VII	0	20-Mar-15		♦ PV - Site Possession, Portion VI/VII
VP_1340	Demolish existing BGO	24	01-Apr-15	04-May-15	
VP_1300	PV - Initial works (Site Clearance, underground utilities etc.)	24	05-May-15	02-Jun-15	
VP_1360	PV - foundation works	21	19-May-15	12-Jun-15	
- VP_1380	PV- structural works, G/F to Roof	24	10-Jun-15	09-Jul-15	
Bowling Green					
	ions for Bowling Green Lighting				
VP_0330	Engineer's Review and Approval	24	23-Sep-14 A	27-Mar-15	Engineer's Review and Approval
- Method Statemer			•		
	(01)Method statement - review and approval by AECOM	24	20-Nov-14 A	31-Mar-15	(01)Method statement - review and appro
Procurement					
	Materials - ER review and approval	24	14-Feb-15A	29-Apr-15	Materi
VP_1010.184	Issue PO / Manufacturing	42	30-Apr-15	19-Jun-15	
VP_6670	Materials Delivery - Green Turf	24	03-Jun-15	02-Jul-15	
	Fransplanting, DBH <300mm				
	<300mm dia trees (3months) - Stage 4 root pruning & removal/Transplanting	12	05-Nov-14 A	02-Apr-15	and trees (3months) - Stage 4
Construction Wo		12	03-1100-14 A	02-201-10	dia u ees (chionuis) - Stage 4
VP_1320	BG - Site Possession, Portion VI, VII	0	20-Mar-15		BG - Site Possession, Portion VI, VI
	Demolish existing CP / BGO / Site Clearance			04 May 15	
VP_1170		24	01-Apr-15	04-May-15	
VP_1180	Site Survey / Setting up	12	05-May-15	18-May-15	
VP_1710	BG - Install U/G Sewerage System	24	12-May-15	09-Jun-15	
VP_1720	BG - Install Drainage System	24	27-May-15	24-Jun-15	
VP_1730	BG - Install Irrigation System	24	10-Jun-15	09-Jul-15	
·	oonents Upkeep (CBTS and ATS)				
MAR_2000	Mooring Upkeep at Portion XIX(19) & XX(20) - ATS (if instructed by Engineer)	1399	21-Mar-13 A	17-Jan-17	
	· · · · · · · · · · · · · · · · · · ·		4 - 5 5		Date
	Actual Work	Page	4 01 5		20-Mar-15
	Critical Remaining Work	Co	ntract No. I	HY/2010/08: C	entral - Wanchai Bypass Tunnel +(Slip



Activity ID	Activity Name	Original	Start	Finish								
		Duration					2015					
						Mar			Apr		May	Jun
MAR_1000	Mooring Upkeep at Portion III (3) - CBTS	574	15-May-14 A	09-Dec-15								
			-							1		
MAR_3020	Mooring Upkeep at Portion X(10) & XVI(16) - CBTS	979	15-May-14 A	17-Jan-17								
										-		
Works for Public Works Regional Laboratory (North Lantau)								i l				
										-		
Maintenance ar	nd Upkeep of New PWRL (Portion XVII)									1		
PWRL_1050	Maintenance/ Upkeep of New PWRL	1301	19-Jul-13 A	21-Nov-17								
							N					

	Actual Work Remaining Work Critical Remaining Work Milestone	Page 5 of 5 Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip Road 8 Section) - 3 Months Rolling Progamme	Date 20-Mar-15	Update
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Revision	Checked	Approved
dated to 20th March 2015	DML/WC	
		-