

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 (September 2015 - November 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

- SEPTEMBER 2015 TO NOVEMBER 2015 -

CLIENTS:

Civil Engineering and Development Department

and

**Highways Department** 

#### PREPARED BY:

#### Lam Geotechnics Limited

11/F Centre Point 181-185 Gloucester Road, Wanchai, H.K.

Telephone: (852) 2882-3939 Facsimile: (852) 2882-3331 E-mail: <u>info@lamenviro.com</u> Website: <u>http://www.lamenviro.com</u>

CHECKED BY:

Raymond Dai Environmental Team Leader

DATE:

23 December 2015



Ref.: AACWBIECEM00\_0\_7607L.15

31 December 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 (September to November 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 September to November 2015 received by e-mail on 23 December 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.

C.C. HyD Attn: Mr. Bond Chow CEDD Attn: Mr. Stephen Lo Q:\Projects\AACWBIECEM00\Corr\AACWBIECEM00\_0\_7607L.15.docx

by fax: 2714 5289 by fax: 2577 5040

AECOM	Attn: Mr. Francis Leong/Stephen Lai	by fax: 2691 2649
AECOM	Attn: Mr. Conrad Ng	by fax: 2691 2649
Lam	Attn: Mr. Raymond Dai	by fax: 2882 3331



Lam Geotechnics Limited

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# EXECUTIVE SUMMARY

i. This is the Quarterly Environmental Monitoring and Audit (EM&A) Report – September 2015 to November 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 September 2015 to November 2015. The cut-off date of reporting is at 27<sup>th</sup> 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/2009/07	1
Table I	T Intelpar Work Activities for Contract no. 11172003/01	,

September 2015	October 2015	November 2015
• Nil	Rock trimming works	• Nil

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

September 2015		October 2015		November 2015
Placing levelling stone for	•	Placing rock fill material	•	Reclamation works in
construction of seawall at		behind caisson seawall at		WCR3
WCR3		WCR3		
Placing caisson seawall	•	Reclamation works at		
		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

	September 2015		October 2015		November 2015
•	Reinstatement of vertical	•	Reinstatement of vertical	•	Reinstatement of vertical
	seawall at TPCWAE		seawall at TPCWAE		seawall at TPCWAE
				•	Construction of floating
					pontoon at TS4

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

September 2015	October 2015	November 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

September 2015	October 2015	November 2015
Dry dock construction	Dry dock construction	Construction of culvert
Installation of pipe pile	Installation of seawall	• Trimming of rock bedding
wall	blocks	
Construction of culvert	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
14010 11	

ſ	September 2015	October 2015	December 2015
	Diversion pipe	Diversion pipe	Diversion pipe
	maintenance	maintenance	maintenance

#### 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. No action and limit level exceedance was recorded in September reporting month.
- x. No action and limit level exceedance was recorded in October reporting month.
- xi. One limit level exceedance was recorded at noise monitoring station M1a Habour Road Sports Center on 24 November 2015 in November reporting month. The exceedance was concluded as non-project related.

#### 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 limit level exceedance was recorded in September reporting months at RTN2a-Hong Kong Electric Centre.
- xvii. No limit level exceedance was recorded in October reporting month at RTN2a-Hong Kong Electric Centre.
- xviii. No project related limit level exceedance was recorded in November reporting month at RTN2a-Hong Kong Electric Centre.

#### Air Quality Monitoring

- xix. Due to interruption of electricity supply, the following 24hr TSP monitoring events were rescheduled in this reporting quarter,
  24hr TSP at CMA3a was rescheduled from 5 October 2015 to 6 October 2015
  24hr TSP at CMA5b was rescheduled from 5 October 2015 to 6 October 2015
  24hr TSP at CMA2a was rescheduled from 26 November 2015 to 27 November 2015.
  24hr TSP at CMA3a was rescheduled from 3 November 2015 to 4 November 2015.
  24hr TSP at CMA5b was rescheduled from 20 November 2015 to 21 November 2015.
- xx. One action level exceedance during 24hr TSP monitoring was recorded at monitoring station
   CMA1b Oil Street Site Office on 24 September 2015 in September reporting month.
   Investigation found that the exceedance recorded was not related to the Project.
- xxi. One action level exceedance during 1hr TSP monitoring was recorded at monitoring station
   CMA1b Oil Street Site Office on 30 September 2015 in October reporting month.
   Investigation found that the exceedance recorded was not related to the Project.
- xxii. No action or limit level exceedance for TSP monitoring was recorded in November reporting month.
- xxiii. The odour patrol along the odour route with 7 sniffing locations was conducted by a qualified odour patrol member on 1 and 15 September 2015 at the concerned hours (afternoon for higher daily temperature). No Action and Limit Level was recorded in September reporting month.
- xxiv. The odour patrol along the odour route with 7 sniffing locations was conducted by a qualified odour patrol member on 29 September 2015 at the concerned hours (afternoon for higher daily temperature). No Action and Limit Level was recorded in October reporting month.
- xxv. With respect to the removal of Oil Street Site Office, the respective air quality monitoring station CMA1b was finely adjusted on 11 September 2015.
- 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 completion of dredging activities at HKCEC and WCR the removal of silt screen at WSD7 and WSD19 were conducted on 15 September 2015 and removal of silt screen at C1, P1, P3, P4, P5 were conducted on 7 November 2015 under Contract HK/2009/01.
- xxxi. With respect to the maintenance works for the diverted seawater supply system to the Windsor House Cooling water intake and the suspension of seawater supplies to Windsor House from the water storage tank from 6 November 2015 to 10 November 2015, the respective water quality monitoring at WQM station C7 was cancelled on 6 November 2015 flood tide and was temporarily suspended on 9 November 2015. The aforesaid monitoring station was resumed on 11 November 2015 upon completion of the maintenance works.
- xxxii. Due to obstruction of water sampling point by the removed silt curtain stock at WQM station C1 on 9 November 2015, the respective water quality monitoring was temporarily conducted at the finely adjusted location immediately outside the steel frame to represent water quality for the respective cooling intake.
- xxxiii. Due to the water sampling point at WQM station P1 was found hindered by detached fabric mesh in the remaining frame of the silt screen on 11 November 2015, the respective water quality monitoring sampling was temporarily conducted at the finely adjusted location immediately outside the silt screen frame to represent water quality for the respective cooling intake.
- xxxiv. Due to obstruction by temporary fencing at the water quality monitoring station RW21-P789, the water quality monitoring at WQM station RW21-P789 was conducted at finely adjusted position during flood tide on 16 October 2015 adjacent to the original sampling position within the same silt curtain enclosed area.
- xxxv. Due to the hoisting of Amber Rainstorm Warning Signal and safety consideration under adverse weather condition, the scheduled Water Quality Monitoring on 26 September 2015 during flood tide was cancelled.
- xxxvi. With respect to the completion of the removal of the silt screen maintained under WDII Contract HK/2009/01 at WSD Saltwater Intake Station WSD19 on 15 September 2015, the monitoring location for the WQM station WSD19 would be finely adjusted to the location immediately outside the abstraction point of the respective WSD Saltwater Intake from 16 September 2015.
- xxxvii. With respect to the resumption of seawall reinstatement works at Ex-PCWAE and the location of the Enhance DO monitoring station Ex-PCWAE SE would form an active construction area. The Enhance DO monitoring station Ex-PCWAE SE was temporarily suspended from 31 August 2015 and the monitoring at Ex-PCWAE SE is tentatively to be resumed by November 2015.
- xxxviii. 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.

- xxxix. With respect to the construction works undertaken at Ex-PCWAW and the 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.
  - xl. 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.
  - xli. 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.
  - xlii. Water quality monitoring was conducted at 8 monitoring stations namely WSD19, C1, C7, P1, P3, P4, P5 and RW21-P789 during the reporting period.
  - xliii. There were 2 action level and 9 limit level of turbidity exceedance, and 1 action level and no limit level of suspended solid exceedance recorded in September reporting month. Investigation found that the exceedance was not related to Project works.
  - xliv. There were 32 action level and 49 limit level of turbidity exceedances, and 4 action level and 4 limit level of suspended solid exceedances recorded in October reporting month.
  - xlv. Investigation found that the one limit level of turbidity exceedance recorded at monitoring station RW21-P789 on 6 October 2015 in October reporting month was concluded as related to Project works.
  - xlvi. Investigation found that 32 action level and 48 limit level of turbidity exceedances, and 4 action level and 4 limit level of suspended solid exceedances recorded in October reporting month were not related to Project works.
- xlvii. There were 10 action level and 37 limit level of turbidity exceedances, and 1 action level and 1 limit level of suspended solid exceedances recorded in November reporting month. Investigation found that the turbidity exceedances and suspended solid exceedances recorded were not related to Project works.
- xlviii. 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.
- xlix. There were 5 action level and 9 limit level exceedances of enhanced dissolved oxygen recorded in September reporting month. Investigation found that the exceedances were not related to Project works.
  - I. There were 3 action level and 13 limit level exceedances of enhanced dissolved oxygen recorded in October reporting month. Investigation found that the exceedances were not related to Project works.
  - Ii. There were no action level and 4 limit level exceedances of enhanced dissolved oxygen recorded in November reporting month. Investigation found that the exceedances were not related to Project works.
  - Iii. 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.

- liii. 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.
- liv. 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.
- Iv. 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.
- Ivi. 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.
- Ivii. 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.
- Iviii. 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.
- lix. 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.
- Ix. 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.
- Ixi. 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.
- Ixii. 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.
- Ixiii. 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.



- Ixiv. 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.
- Ixv. RSS confirmed that all Type III Dredging works under HK/2009/01 have been completed since Oct 2012.
- Ixvi. 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.
- Ixvii. 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.
- Ixviii. 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.
- Ixix. 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.
- Ixx. 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;
- Ixxi. 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.
- Ixxii. 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.
- Ixxiii. 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.
- Ixxiv. 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

- i. Three environmental complaints were received in September reporting month.
- A public complaint regarding dropping of excavated material from land to sea referred by EPD was received by ET on 04 September 2015 (EPD Ref.: H05/RS/00022241-15 dated 04 September 2015). The complainant reported that dropping of excavated materials from land to sea during loading of materials by excavator at the construction site to work boat. (Contract HK/2009/02)

ET confirmed with the Resident Site Staff that transferring of C&D materials from land to hopper barge by excavator at seaside along CWB Tunnel Portions 3 and 4 was undertaken by Contract HK/2009/02 on 01 September 2015. Mitigation measure including providing tarpaulin sheet to cover the gap between seawall and the hopper barge to prevent dropping of material to the sea was implemented by the Contractor.

According to the relevant site records under Contract HK/2009/02, transferring of C&D materials from land to hopper barge by excavator at seaside along CWB Tunnel Portions 3 and 4 was carried out on 01 September 2015 and mitigation measures including provision of tarpaulin sheet between seawall and the hopper barge was implemented by the Contractor of HK/2009/02 on the concerned date. Follow-up inspection was conducted during weekly environmental inspection on 10 September 2015. Transferring of C&D materials from land to barge by excavator was observed at the concerned location and mitigation measures including provision of tarpaulin sheet between seawall and hopper barge and the material transfer works was generally in order. Nevertheless, the Contractor of HK/2009/02 was reminded to maintain the handling procedure for C&D materials transfer from land to hopper barge and regularly inspect the condition of the tarpaulin sheet provided to ensure the nearby water quality are not affected by the loading and unloading of material from land side to hopper barge.

The Contractor was reminded to maintain the handling procedure for C&D materials transfer from land to hopper barge and regularly inspect the condition of the tarpaulin sheet provided to ensure the nearby water quality are not affected by the loading and unloading of material from land side to hopper barge.

 Second public complaint regarding construction noise and dust and exhaust emission referred by EPD was received by ET on 04 September 2015 (EPD Ref.: H04/RS/00022385-15 dated 04 September 2015). The complainant reported that construction noise was generated from the construction site of HK/2012/08 at location outside Fleet Arcade during night time on



weekdays and daytime during General Holidays. The complainant also concerned construction dust and exhaust emission from derrick barges during transporting C&D material at the site. (Contract HK/2012/08)

ET confirmed with the Resident Site Staff that from 0800 hrs to 1800 hrs on 30 August 2015, removal of scaffold and timber and installation of bulkhead was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one generator and one circular saw were in operation. From 1900hrs on 30 August 2015 to 0700 on 31 August 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location.

From 1900hrs on 31 August 2015 to 0700hrs on 01 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location.

From 1900hrs to 2115 hrs on 01 September 2015, unloading of soil was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one derrick barge was in operation. From 2300hrs on 01 September 2015 to 0700hrs on 02 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location. One derrick barge was deployed for unloading of soil on 02 September 2015 during daytime under Contract HK/2012/08 at the concerned location.

Based on the relevant site records, from 0800 hrs to 1800 hrs on 30 August 2015, removal of scaffold and timber and installation of bulkhead was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one generator and one circular saw were in operation and the relevant Construction Noise Permit GW-RS0296-15 for the concerned operation was confirmed in place.

From 1900hrs on 30 August 2015 to 0700 on 31 August 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location and from 1900hrs on 31 August 2015 to 0700hrs on 01 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location.

From 1900hrs to 2115 hrs on 01 September 2015, unloading of soil was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one derrick barge was in operation and the Construction Noise Permit GW-RS0296-15 for the concerned operation was confirmed in place. From 2300hrs on 01 September 2015 to 0700hrs on 02 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location. In view of the above, the construction activities conducted under Contract HK/2012/08 during the concerned period was in compliance with the statutory requirement.

In addition, one derrick barge was deployed for unloading of soil on 02 September 2015 during daytime under Contract HK/2012/08 at the concerned location. Follow-up inspection was conducted during weekly environmental inspection on 08 September 2015 and no dark smoke emission was observed from the derrick barge moored outside the concerned location. Nevertheless, the Contractor of HK/2012/08 was reminded to conduct regular checking on the condition of the all derrick barges deployed on site to ensure only well maintained equipment are used to avoid potential dark smoke emission affecting nearby public and the Contractor of



HK/2012/08 was reminded to upkeep the site control system for construction works carrying out at restricted hours and night time for Construction Noise Permit compliance.

The Contractor was reminded to conduct regular checking on the condition of derrick barges deployed on site to ensure only well maintained equipments are used on site to avoid potential dark smoke emission affecting nearby public.

The Contractor of HK/2012/08 was reminded to upkeep the site control system for construction works carrying out at restricted hours and night time for Construction Noise Permit compliance.

iv. The third public complaint regarding water quality referred by EPD was received by ET on 17 September 2015. The complainant reported that Silt from Central and Wan Chai Reclamation was spotted along the coastline (between LUNG WUI ROAD to LUNG WO ROAD, Central & Wan Chai, Hong Kong).

Based on the site records confirmed by RSS, removal of seawall blocks by derrick barge was undertaken by Contract HK/2012/08 at Central Reclamation Phase III works area while mitigation measures including provision of silt curtain implemented by the Contractor of HK/2012/08 during the seawall block removal works. According to relevant record, muddy dispersion at HKCEC2W (area opposite to Lung King Street) was observed by the Environmental Team on 14 September 2015 afternoon. The muddy patch was observed dispersing outside the outer layer silt curtain deployed by the Contractor of HK/2012/08 towards the Central Reclamation Phase III area while the outer layer silt curtain was observed partially opened.

In view of the above observations, the Contractor was advised to rectify any environmental deficiencies such that adequate protection such as silt curtain shall be provided for exposed soil slope to mitigate for potential runoff related water quality impact to the surrounding waters; outer layer silt curtain deployed shall be entirely closed during works to safeguard the surrounding water quality. Any opening for marine vessel shall be closed promptly after passage and localized silt curtain deployed on site shall be properly maintained to avoid any gap or opening to effectively safeguard the nearby waters.

- v. Two environmental complaints were received in October reporting month.
- vi. A public complaint regarding direct discharge of muddy effluent referred by RSS was received by ET on 14 October 2015 (ICC Ref: #2-1438897084) The complainant reported that pink fluid was observed discharged into marine waters at seafront opposite to Watson Road adjacent to the Eastern Breakwater on 11 October 2015.

ET confirmed with Resident Site Staff that no construction activity near the seaside between Eastern Breakwater and the Dumping Jetty was undertaken by Contract HY/2009/19 on 11 October 2015. For site area away from the seawall, construction of EVB substructure, EVB and APS structure was in progress. No work involving the use of paint was carried out at the



concerned site area (Site Portion between Eastern Breakwater and the Dumping Jetty) and along the alignment of the Culvert T1 under Contract HY/2009/19 on 11 October 2015. No temporary storage of paint was located at the concerned site area and along the alignment of the Culvert T1 under HY/2009/19 on 11 October 2015.

Based on the site records confirmed by RSS, no construction activity near the seaside between Eastern Breakwater and the Dumping Jetty was undertaken by Contract HY/2009/19 while at site area away from the seawall, construction of EVB substructure, EVB and APS structure was undertaken on 11 October 2015. In addition, no works involving the use of paint was carried out at the concerned site area (Site Portion between Eastern Breakwater and the Dumping Jetty) and along the alignment of the Culvert T1 under Contract HY/2009/19 and no temporary storage of paint was located at the concerned site area and along the alignment of the Culvert T1 under HY/2009/19 on 11 October 2015.

Follow-up inspection was conducted during weekly environmental inspection on 14 October 2015. No construction works involving the use of paint was observed undertaken at the concerned location while a few number of small containers of paint was observed placed around the concerned location and the paint containers were sealed and no sign of leakage was observed. The few containers were further checked and was found not matching the pink fluid observed on the complaint date. On the other hand, a culvert discharge outfall was found located within the concerned area where the pink fluid was observed.

Based on the above, no direct information indicating the pink fluid was originated from the works area under HY/2009/19 was considered available. Nevertheless, the Contractor was reminded that paints stored on site shall be properly labelled and stored in sealed container at weather proof location to avoid potential spillage.

- vii. Second complaint regarding construction noise impact referred by EPD was received by ET on 28 October 2015 (EPD Ref: H05/RS/00027330-15 dated 28 October 2015). The complainant reported that operation of grab dredger at construction site near the ex-Wan Chai Ferry Pier from 01:00hrs to 04:00hrs on 26 October 2015 caused noise nuisance.
- viii. ET confirmed with the Resident Site Staff that from 01:00hrs to 04:00hrs on 26 October 2015, rock filling 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.
- ix. According to the relevant site records under Contract HK/2009/02, from 01:00hrs to 04:00hrs on 26 October 2015, rock filling 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 and the relevant Construction Noise Permit GW-RS1121-15 for the concerned construction works was in place.

The construction activity conducted under Contract HK/2009/02 during the concerned period was in compliance with the statutory requirement. Nevertheless, the Contractor was reminded



to upkeep the site control system for construction works carrying out at restricted hours and night time for Construction Noise Permit compliance in view of the nearby public concern

- x. Two environmental complaints were received in November reporting month.
- xi. A public complaint regarding water quality referred by EPD was received by ET on 16 November 2015 (EPD Ref: H05/RS/00029126-15). The complainant reported that muddy water was discharged from the construction site at HKCEC and dispersed to seafront outside Lung Wo Road on 13 November 2015 afternoon. The complainant also alleged that the deployment of the silt curtain did not follow the design requirement under the environmental permit that the curtain should be hanged to seabed level.

ET confirmed with Resident Site Staff that rock mound trimming works was undertaken by Contract HK/2012/08 at HKCEC area on 13 November 2015. Mitigation measures including provision of localized silt curtain to around the works area was implemented by the Contract of HK/2012/08.

Based on the site record, rock mound trimming works was conducted under Contract HK/2012/08 at HKECE2 area on 13 November 2015 and mitigation measures including provision of localized silt curtain around the works area was implemented by the Contractor. Follow-up inspection was conducted during weekly environmental inspection on 17 November 2015, both outer layer silt curtain and localized layer of silt curtain around the active works area were observed deployed while the localized silt curtain deployed around the marine works area was observed partially opened for marine access. Despite no muddy dispersion was generate around the localized silt curtain to ensure the effectiveness of the mitigation measure deployed and to ensure the silt curtain is closed after marine vessel movement.

Based on further review on the current construction stage at HKECE2, the dredging works and trench filling works were completed and filling works were conducted behind seawall or temporarily seawall in form of rockbund, the outer layer of silt curtain currently serves as the additional mitigation measure to the required silt curtain deployment for safeguarding the water quality in the area. To clarify for the current silt curtain arrangement, the Contractor was advised to submit an updated silt curtain deployment plan with respect to the latest silt curtain arrangement for the current construction stage. In addition, contaminated discharge at Culvert L originating from upstream locations was intermittently observed based on previous site records. Nevertheless, in view of the public concern, the Contractor was reminded to conduct regular checking on the condition and maintenance for the silt curtain deployed on site to ensure the effectiveness of the mitigation measure.

A joint meeting for the complaint was held amongst the EPD, WDII RSS team, the ET and the Contractor of HK/2012/08 on 24 November 2015 and a joint silt curtain diver inspection check amongst EPD, ET, IEC, WDII RSS and the Contractor was conducted on 27 November 2015 to confirm the silt curtain condition and the silt curtain deployed at the HKCEC2 water channel was found generally in order.



Lam Geotechnics Limited

- xii. Second public complaint regarding illegal disposal of construction waste referred by EPD was received by ET on 17 November 2015. The complainant reported that a) over 10,000 m3 of bentonite after usage for construction of diaphragm wall was disposed of at Victoria Habour, b) The Contractor recently deployed mobile crane to transfer the bentonite from mud pit on to works barge. The bentonite was then mixed with soil and transported to the Public Fill. During the course, seepage of slurry through grab generated drop off to marine waters and the soil mixing generated dust impact to nearby yacht club, typhoon shelter and affect nearby public and boats, c) Disposal of dredged marine sediment was not carried out in accordance with the Management of Dredged/Excavated Sediment. Instead the marine sediment was covered by sand and soil and transported to the Public Fill, d) White or greyish effluent was discharged directly into Victoria Habour marine waters from wastewater treatment plant on construction site.
- xiii. Interim investigation report was submitted to EPD on 24 November 2015. Due to further investigation undertaken, further information and investigation summary shall be further included in December 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 September 2015 to November 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.

14610 =	Table 2.1 Schedule 2 Designated 1 Tojects under this 1 Toject							
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 –	DP3, DP6	23 July 2010
	Central –Wanchai Bypass at Hong Kong Convention and Exhibition Centre	DP1, DP2	25 August 2011
HK/2009/02	Wan Chai Development Phase II –	DP3, DP5	5 July 2010
	Central – Wan Chai Bypass at WanChai East	DP1	26 April 2011
HY/2009/11	Wan Chai Development Phase II and	DP3	17 March 2010
	Central – Wan Chai Bypass – North Point Reclamation	DP3	(Completed)
HY/2009/15	Central-Wanchai Bypass – Tunnel	DP3	10 November 2010
	(Causeway Bay Typhoon Shelter Section)	DP1	13 July 2011
HK/2010/06 Wan Chai Development Phase II- Central-Wan Chai Bypass over MTR Tsuen Wan Line			22 March 2011
		DP3	(Completed)
04/HY/2006	Reconstruction of Bus Terminus near	DP1	September 2010
	Man Yiu Street and Man Kwong Street		(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



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# 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	Contractor under Contract	Project Director	Chris Leung	3557 6393	2566 2192
Engineering no. HY/2009/15 (HK) Ltd.	no. HY/2009/15	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	Rayland Lee	3758 6788	2570 8013
CRGL - MBEC_Joint Venture	under Contract no. HY/2009/19	Site Agent	David Lau	3758 8879	
venture		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	
Ramboll 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*.



Table 2.4 Principal Work Activities for Contract no. HK/2009/0
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	September 2015	October 2015	November 2015
•	Nil	Rock trimming works	• Nil

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

	September 2015		October 2015		November 2015
•	Placing levelling stone for	•	Placing rock fill material	•	Reclamation works in
	construction of seawall at		behind caisson seawall		WCR3
	WCR3		at WCR3		
•	Placing caisson seawall	•	Reclamation works at		
			WCR3		

### Table 2.5Principal 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

	September 2015		October 2015		November 2015
•	Reinstatement of vertical	•	Reinstatement of vertical	•	Reinstatement of vertical
	seawall at TPCWAE		seawall at TPCWAE		seawall at TPCWAE
				•	Construction of floating
					pontoon at TS4

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

September 2015	October 2015	November 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

	September 2015		October 2015		November 2015
•	Dry dock construction	•	Dry dock construction	•	Construction of culvert
•	Installation of pipe pile	•	Installation of seawall	•	Trimming of rock bedding
	wall		blocks		
•	Construction of culvert	•	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:

Table 2.0	Principal Work Activities for Contract no. HY/2010/08
Table 2.9	Principal work Activities for Contract no. H1/2010/06

	September 2015	October 2015	December 2015
•	Diversion pipe	Diversion pipe	Diversion pipe
	maintenance	maintenance	maintenance

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* 3.1. <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	RTN2a	Electric Centre

Table 3.2Real 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



#### 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 (L<sub>eq</sub>). L<sub>eq (30 minutes)</sub> shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time periods, L<sub>eq (5 minutes)</sub> 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 <sup>™</sup> 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 Int	WSD Salt Water Intake			
WSD19	Sheung Wan	833415.0	816771.0	
Cooling Water Intake				
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)	835895.2	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 <sup>1</sup>	Parameters <sup>2</sup>
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 nos	s. 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 September reporting month.
- 4.1.3. No action or limit level exceedance was recorded in October reporting month.
- 4.1.4. One limit level exceedance was recorded at M1a- Harbour Road Sports Centre on 24 November 2015 in November reporting month.
- **4.1.5.** Breaking works at Ex- Wan Chai Swimming Pool (adjacent to Habour Road Sports Centre directly opposite to the monitoring station) under non WDII-CWB Contractor was observed as the major noise contribution during monitoring. As such, the exceedance was considered as non-Project related.

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>

4.1.6. 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.

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

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

4.1.7. 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>

- 4.1.8. 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.
- 4.1.9. The proposed division of noise monitoring stations for Contract no. HY/2009/19 are summarized in *Table 4.3* below:

Table 4.3 Noise Monitoring S	Stations for Contract no.	HY/2009/19
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Station	Description	
M4b	Victoria Centre	
M5b	City Garden	
M6	HK Baptist Church Henrietta Secondary School	

- 4.1.10. No action or limit level exceedance was recorded in this reporting quarter.
- 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>
   4.1.

#### 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

D	District	Station	Description
Ν	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 No limit level exceedance was recorded in September reporting month.
- 4.2.6 No limit level exceedance was recorded in October reporting month.



4.2.7 Limit level exceedance was recorded at RTN2a-Electric Centre on 14 November 2015 during daytime in November reporting month. On 14 November 2015, pre-bored piling works was undertaken by Contract HY/2009/19 while mitigation measures including erection of temporary noise barrier was in place. In addition, cooling pipe removal works with saw cutting for Hong Kong Electric Centre was conducted at the roof top by non-CWB Contractor at the roof top location of the Hong Kong Electric Centre immediately next to the noise monitoring station. In view of the mitigation measures implemented and the non-CWB works conducted next to the monitoring station as major noise contribution, the exceedances were considered as non-Project related.

#### 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 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.

Station	Description	
CMA5b	Pedestrian Plaza	
CMA6a	WDII PRE Site Office *	

 Table 4.6
 Air Monitoring Stations for Contract no. HK/2009/01

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 4.7Air 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 4.8Air Monitoring Station for Contract no. HY/2009/15

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 1 and 15 September 2015 at the concerned hours (afternoon for higher daily temperature). No Action and Limit Level was recorded during September 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 29 September 2015 at the concerned hours (afternoon for higher daily temperature). No Action and Limit Level was recorded during October 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. One action level exceedance was recorded at monitoring station CMA1b on 24 September 2015 during 24hr TSP monitoring in September reporting month.
- 4.3.13. After investigation, no construction activities was undertaken during monitoring period around the monitoring station and the condition of the haul road around the monitoring station was generally maintained with dust suppression measures, the exceedance was considered as non-Project related and contributed by local ambient condition. Nevertheless, in view of the transition into dry season, the Contractor was reminded to enhance all necessary dust



suppression measure for construction works or potential dust surface to minimize potential dust impact to the surroundings.

- 4.3.14. One action level exceedance was recorded at monitoring station CMA1b on 30 September 2015 during 1hr TSP monitoring in the reporting month.
- 4.3.15. After investigation, no construction activities was undertaken during monitoring period around the monitoring station and the condition of the haul road around the monitoring station was generally maintained with dust suppression measures, the exceedance was considered as non-Project related and contributed by local ambient condition. Nevertheless, the Contractor was reminded to maintain necessary dust suppression measure for construction works or potential dust surface to minimize potential cumulative dust impact to the surroundings.
- 4.3.16. No action or limit exceedance was recorded in November reporting month.

#### 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.

Station Ref.	ation Ref. Location Easting					
Cooling Water Intake						
C1	HKCEC Extension	835885.6	816223.0			
Pomarks:						

Table 4.10 Water Monitoring Stations for Contract no. HK/2009/01

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 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.

Table 4.11 Water Monitoring Stations for Contract no. HK/2009/02

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 Inta	ke						
C1	HKCEC Extension	835885.6	816223.0				
Cooling Water Inta	Cooling Water Intake						
RW21-P789	Great Eagle Centre/ Sun Hung Kai Centre/CWB	836268.0	816020.0				
Pomarks:							

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 was associated with Contract No. HK/2009/02 as the marine works under DP3 at WCR3 area has commenced and was in progress.

<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 Int	WSD Salt Water Intake							
WSD19	Sheung Wan	833415.0	816771.0					
Cooling Water Inta	ke							
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> <u>Section)</u>

- 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.

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

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

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> <u>Island Eastern Corridor Link</u>

- 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	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	4	6	1	0	0	0	2	3	0	0
	WSD19	0	0	6	20	1	3	0	0	6	13	1	1
	P1	0	0	2	2	0	0	0	0	4	1	1	0
HK/2012/08	P3	0	0	4	1	0	0	0	0	2	1	0	0
	P4	0	0	1	9	1	0	0	0	3	3	0	0
	P5	0	0	1	10	1	0	0	0	1	4	0	0
HK/2009/02	RW21-P789	0	0	5	11	0	0	0	0	2	4	0	0
HY/2009/15 & HY/2010/08	C7	0	0	1	3	0	0	0	0	1	3	0	1
Total		0	0	24	62	4	3	0	0	21	32	2	2

#### Table 4.14 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 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 was associated with Contract No. HK/2009/02 as the marine works under DP3 at WCR3 area has commenced and was in progress.
- Silt screen at WSD19 was removed since 15 September 2015.
- 4.4.22. There was 3 action and 8 limit level turbidity exceedances, and 1 action and no limit level suspended solid exceedance recorded in September reporting month. Investigation found that the exceedance was not related to Project works.
- 4.4.23. There was 32 action and 49 limit level turbidity exceedances, and 4 action and 4 limit level suspended solids exceedances recorded in October reporting month.
- 4.4.24. Investigation found that the one limit level of turbidity exceedance recorded at monitoring station RW21-P789 on 6 October 2015 in October reporting month was concluded as related to Project works.



- 4.4.25. Investigation found that 32 action level and 48 limit level of turbidity exceedances, and 4 action level and 4 limit level of suspended solid exceedances recorded in October reporting month were not related to Project works.
- 4.4.26. There was 10 action and 37 limit level of turbidity exceedances, and 1 action and 1 limit level exceedances of suspended solids recorded in November reporting month. Investigation found that the exceedances recorded in this reporting month were not related to Project works.
- 4.4.27. 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.*

_		Mid-f	lood	Mid-ebb		
Contract no.	Water Monitoring Station	D	0	DO		
		AL	LL	AL	LL	
	C6	0	0	2	0	
HY/2009/15	Ex-WPCWA SW	2	12	3	13	
	Ex-WPCWA SE	0	1	1	0	
Total		2	13	6	13	

Table 4.15Summary of Enhanced Dissolved Oxygen Monitoring Exceedances in<br/>Reporting period

- 4.4.28. There were 5 action level and 9 limit level exceedances of enhanced dissolved oxygen recorded in September reporting month. Investigation found that the exceedances were not related to Project works.
- 4.4.29. There were 3 action level and 13 limit level exceedances of enhanced dissolved oxygen recorded in October reporting month. Investigation found that the exceedances were not related to Project works.
- 4.4.30. There were no action level and 4 limit level exceedances of enhanced dissolved oxygen recorded in November reporting month. Investigation found that the exceedances were not related to Project works.
- 4.4.31. 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>.
- 4.4.32. 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.

- 4.4.33. 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
- 4.4.34. 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 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 <sup>3</sup>	NIL	62116.405	ТКО137, ТМ38
Inert C&D materials recycled, m <sup>3</sup>	NIL	5856.5	N/A
Non-inert C&D materials disposed, m <sup>3</sup>	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 <sup>3</sup>	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 <sup>3</sup>	NIL (Bulk Volume)	52250 (Bulk Volume)	East of Cha Chau
Dredged Sediment Requiring Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers	equiring Type 3 – pecial Treatment / NIL isposal contained in eosynthetic (Bulk Volume)		East of Cha Chau

 Table 4.16 Details of Waste Disposal for Contract no. HK/2009/01



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 <sup>3</sup>	NIL	276075.1	TKO137/ TM 38
Inert C&D materials recycled, m <sup>3</sup>	NIL	18161	N/A
Non-inert C&D materials disposed, m <sup>3</sup>	NIL	1515.103	SENT Landfill
Non-inert C&D materials recycled, m <sup>3</sup>	N/A	N/A	N/A
Chemical waste disposed, kg	NIL	13860	SENT Landfill
Marine Sediment (Type 1 – Open Sea Disposal), m <sup>3</sup>	NIL	240222 (Bulk volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m <sup>3</sup> *	NIL	146445 (Bulk volume)	East of Sha Chau

 Table 4.17 Details of Waste Disposal for Contract no. HK/2009/02

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

4.5.4. There was 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. 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.* 



Table 4.18 Details of Waste Disposal for Contract no. HY/2009/15							
Waste Type	Quantity this quarter	Cumulative Quantity- to-Date	Disposal / Dumping Grounds	Remarks			
Inert C&D materials disposed, m <sup>3</sup>	NIL	141579.2	Tuen Mun Area 38	NIL			
uisposeu, m <sup>2</sup>	NIL	65216	TKO137 FB	NIL			
Inert C&D materials	NIL	304	Ex-PCWA	NIL			
recycled, m <sup>3</sup>	NIL	111.9	TS4	NIL			
Non-inert C&D materials disposed, m <sup>3</sup>	NIL	252.2	SENT Landfill	NIL			
Non-inert C&D materials recycled, kg	NIL	299361.5	N/A	NIL			
Chemical waste disposed, kg	NIL	8,200	N/A	NIL			
	5684	156909*	South of Cheung	Dredging from			
Marine Sediment (Type 1 – Open Sea Disposal) , m <sup>3</sup>		(Bulk Volume)	Chau	TCBR1E / TCBR1W / TCBR2/ TCBR3 / TCBR4 / Maintenance dredging			
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m <sup>3</sup>	NIL	322796* (Bulk Volume)	East of Sha Chau	Dredging from TCBR1E / TCBR1W / TCBR2/ TCBR3 / TCBR4 / Maintenance dredging			
Marine Sediment (Type	NIL	12640	East of Sha Chau	Dredging from			
3 – Special Treatment / Disposal contained in Geosynthetic Containers)		(Bulk Volume)		TCBR1W / Maintenance dredging			
Marine Sediment (Type	NIL	9350	East of Sha Chau	Dredging from			
2 – Confined Marine Disposal), m3	(Bulk Volume)	(Bulk Volume)		Eastern Breakwater of CBTS			
Marine Sediment (Type	NIL	600	East Sha Chau /	Dredging from			
1 – Open Sea Disposal) , m3	(Bulk Volume)	(Bulk Volume)	South of The Brothers	Phase 3 Mooring Re-arrangement			
Marine Sediment (Type	NIL	14,780	South of The	Dredging from			
2– Confined Marine Disposal) , m3	(Bulk Volume)	(Bulk Volume)	Brothers	Phase 3 Mooring Re-arrangement			
Marine Sediment (Type	NIL	2,760	South of The	Dredging from			
3 – Special Treatment / Disposal contained in Geosynehetic Containers), m3	(Bulk Volume)	(Bulk Volume)	Brothers	Phase 3 Mooring Re-arrangement			

\*Remark: Contractor has updated the cumulative quantity of Marine Sediment (Type 1 - Open Sea Disposal) and Marine Sediment (Type 1 – Open Sea Disposal (Dedicated Sites) & Type 2 – Confined Marine Disposal) in November reporting month.



4.5.6. There was Marine Sediment (Type 1 – Open Sea Disposal) and no 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 <sup>3</sup>	NIL	355921.04	TM38
Inert C&D materials recycled, m <sup>3</sup>	NIL	59367	N/A
Non-inert C&D materials disposed, m <sup>3</sup>	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 <sup>3</sup>	NIL	162	South Cheung Chau
Marine Sediment (Type 2 – Confined Marine Disposal) , m <sup>3</sup>	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

Table 1 10	Dotails of	Wasta Disno	al for Contra	ot no HV/2000/10	
Table 4.19	Details of	waste Dispos	sai ior Contra	ct no. HY/2009/19	

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, $m^3$	NIL	4131	TM38
Inert C&D materials recycled, m <sup>3</sup>	NIL	NIL	N/A

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



Waste Type	Quantity this month	Cumulative Quantity- to-Date	Disposal / Dumping Grounds		
Non-inert C&D materials disposed, m <sup>3</sup> *	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 <sup>3</sup> *	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 <sup>3</sup> *	NIL (Bulk volume)	108485 (Bulk volume)	South of The Brothers (from 27 Aug 2013 onwards)		

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 <sup>3</sup>	NIL	267600.2*	N/A
Inert C&D materials recycled, m <sup>3</sup>	NIL	NIL	N/A
Non-inert C&D materials disposed, m <sup>3</sup>	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

\*Remarks: The cumulative quantity of Inert C&D materials disposed was updated in this reporting quarter.

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 No action and limit level exceedance was recorded in September reporting month.
- 5.1.2 No action and limit level exceedance was recorded in October reporting month.
- 5.1.3 One limit level exceedance was recorded at noise monitoring station M1a Habour Road Sports Center on 24 November 2015 in November reporting month. The exceedance was concluded as non-project related.
- 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 No limit level exceedance was recorded in September reporting month at RTN2a-Hong Kong Electric Centre.
- 5.2.2 No limit level exceedance was recorded in October reporting month at RTN2a-Hong Kong Electric Centre.
- 5.2.3 Limit level exceedance was recorded at RTN2a-Electric Centre on 14 November 2015 during daytime in November reporting month. On 14 November 2015, pre-bored piling works was undertaken by Contract HY/2009/19 while mitigation measures including erection of temporary noise barrier was in place. In addition, cooling pipe removal works with saw cutting for Hong Kong Electric Centre was conducted at the roof top by non-CWB Contractor at the roof top location of the Hong Kong Electric Centre immediately next to the noise monitoring station. In view of the mitigation measures implemented and the non-CWB works conducted next to the monitoring station as major noise contribution, the exceedances were considered as non-Project related.
- 5.2.4 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 One action level exceedance was recorded at monitoring station CMA1b on 24 September 2015 during 24hr TSP monitoring in September reporting month.



- 5.3.2 After investigation, local ambient condition was considered as the major air quality contribution and the exceedance was considered as non- Project related. The Contractor was reminded to enhance all necessary dust suppression measure for construction works or potential dust surface for dry season transition.
- 5.3.3 One action level exceedance was recorded at monitoring station CMA1b on 30 September 2015 during 1hr TSP monitoring in October reporting month.
- 5.3.4 After investigation, local ambient condition was considered as the major air quality contribution and the exceedance was considered as non- Project related. The Contractor was reminded to maintain the regular dust suppression measure for construction works or potential dust surface for dry season transition.
- 5.3.5 No exceedance was recorded in November reporting month.
- 5.3.6 No action and limit level was recorded for odour patrol during September and October 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	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	4	6	1	0	0	0	2	3	0	0
	WSD19	0	0	6	20	1	3	0	0	6	13	1	1
	P1	0	0	2	2	0	0	0	0	4	1	1	0
HK/2012/08	P3	0	0	4	1	0	0	0	0	2	1	0	0
	P4	0	0	1	9	1	0	0	0	3	3	0	0
	P5	0	0	1	10	1	0	0	0	1	4	0	0
HK/2009/02	RW21-P789	0	0	5	11	0	0	0	0	2	4	0	0
HY/2009/15 & HY/2010/08	C7	0	0	1	3	0	0	0	0	1	3	0	1
Total		0	0	24	62	4	3	0	0	21	32	2	2

 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 was associated with Contract No. HK/2009/02 as the marine works under DP3 at WCR3 area has commenced and was in progress
- Silt screen at WSD19 was removed since 15 September 2015.
- 4.4.35. There was 2 action and 9 limit level turbidity exceedances, and 1 action and no limit level exceedance recorded in September reporting month. Investigation found that the exceedance was not related to Project works.
- 4.4.36. There was 32 action and 49 limit level turbidity exceedances, and 4 action and 4 limit level suspended solid exceedances recorded in October reporting month.
- 4.4.37. Investigation found that the one limit level of turbidity exceedance recorded at monitoring station RW21-P789 on 6 October 2015 in October reporting month was concluded as related to Project works.
- 4.4.38. Investigation found that 32 action level and 48 limit level of turbidity exceedances, and 4 action level and 4 limit level of suspended solid exceedances recorded in October reporting month were not related to Project works.
- 4.4.39. There was 10 action and 37 limit level of turbidity exceedances, and 1 action and 1 limit level exceedances of suspended solids recorded in November reporting month. Investigation found that the exceedances recorded in this reporting month were not related to Project works.

## Table 5.2Summary of Enhanced Dissolved Oxygen Monitoring Exceedances in<br/>Reporting period

		Mid-f	lood	Mid-ebb		
Contract no.	Water Monitoring Station	D	0	DO		
		AL	LL	AL	LL	
HY/2009/15	C6	0	0	2	0	
	Ex-WPCWA SW	2	12	3	13	
	Ex-WPCWA SE	0	1	1	0	
Total		2	13	6	13	



- 5.4.2. There were 2 action level and 8 limit level exceedances of enhanced dissolved oxygen recorded in September reporting month. Investigation found that the exceedances were not related to Project works.
- 5.4.3. There were 3 action level and 13 limit level exceedances of enhanced dissolved oxygen recorded in October reporting month. Investigation found that the exceedances were not related to Project works.
- 5.4.4. There were no action level and 4 limit level exceedances of enhanced dissolved oxygen recorded in November 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 September reporting month.
- 5.7.2 One limit level turbidity exceedance was recorded on 6 October 2015 at water monitoring station RW21-P789 in October reporting month. C&D material transfer from derrick barge to land side was conducted under Contract HK/2009/02 during the monitoring period on 6 October 2015 while excavated material drop off during transferring material from barge to land side and muddy dispersion generated from on-site surface runoff was observed during the monitoring period. The silt screen system for WQM station RW21-P789 was found removed during the monitoring period. It is concluded that the exceedance was project related and the contractor was advised to promptly rectify any defects and reinstate the silt screen system for the water quality monitoring station RW21-P789. Relevant mitigation measures such as provision of bunds and embankment and use of tarpaulin sheet was implemented on 6 October 2015 and the silt screen system for water quality monitoring station RW21-P789 was reinstated on 8 October 2015, and no further exceedance was recorded on the subsequent monitoring tide on the same monitoring date.
- 5.7.3 There was no particular action taken since no project-related non-compliance was recorded from site audit in November reporting month.



#### 6. COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

- 6.0.1. Three environmental complaints were received in September reporting month.
- 6.0.2. A public complaint regarding dropping of excavated material from land to sea referred by EPD was received by ET on 04 September 2015 (EPD Ref.: H05/RS/00022241-15 dated 04 September 2015). The complainant reported that dropping of excavated materials from land to sea during loading of materials by excavator at the construction site to work boat. (Contract HK/2009/02)

ET confirmed with the Resident Site Staff that transferring of C&D materials from land to hopper barge by excavator at seaside along CWB Tunnel Portions 3 and 4 was undertaken by Contract HK/2009/02 on 01 September 2015. Mitigation measure including providing tarpaulin sheet to cover the gap between seawall and the hopper barge to prevent dropping of material to the sea was implemented by the Contractor.

According to the relevant site records under Contract HK/2009/02, transferring of C&D materials from land to hopper barge by excavator at seaside along CWB Tunnel Portions 3 and 4 was carried out on 01 September 2015 and mitigation measures including provision of tarpaulin sheet between seawall and the hopper barge was implemented by the Contractor of HK/2009/02 on the concerned date. Follow-up inspection was conducted during weekly environmental inspection on 10 September 2015. Transferring of C&D materials from land to barge by excavator was observed at the concerned location and mitigation measures including provision of tarpaulin sheet between seawall and hopper barge and the material transfer works was generally in order. Nevertheless, the Contractor of HK/2009/02 was reminded to maintain the handling procedure for C&D materials transfer from land to hopper barge and regularly inspect the condition of the tarpaulin sheet provided to ensure the nearby water quality are not affected by the loading and unloading of material from land side to hopper barge.

The Contractor was reminded to maintain the handling procedure for C&D materials transfer from land to hopper barge and regularly inspect the condition of the tarpaulin sheet provided to ensure the nearby water quality are not affected by the loading and unloading of material from land side to hopper barge.

6.0.3. Second public complaint regarding construction noise and dust and exhaust emission referred by EPD was received by ET on 04 September 2015 (EPD Ref.: H04/RS/00022385-15 dated 04 September 2015). The complainant reported that construction noise was generated from the construction site of HK/2012/08 at location outside Fleet Arcade during night time on weekdays and daytime during General Holidays. The complainant also concerned construction dust and exhaust emission from derrick barges during transporting C&D material at the site. (Contract HK/2012/08)

ET confirmed with the Resident Site Staff that from 0800 hrs to 1800 hrs on 30 August 2015, removal of scaffold and timber and installation of bulkhead was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one generator and one circular saw were in



operation. From 1900hrs on 30 August 2015 to 0700 on 31 August 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location.

From 1900hrs on 31 August 2015 to 0700hrs on 01 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location.

From 1900hrs to 2115 hrs on 01 September 2015, unloading of soil was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one derrick barge was in operation.

From 2300hrs on 01 September 2015 to 0700hrs on 02 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location. One derrick barge was deployed for unloading of soil on 02 September 2015 during daytime under Contract HK/2012/08 at the concerned location.

Based on the relevant site records, from 0800 hrs to 1800 hrs on 30 August 2015, removal of scaffold and timber and installation of bulkhead was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one generator and one circular saw were in operation and the relevant Construction Noise Permit GW-RS0296-15 for the concerned operation was confirmed in place.

From 1900hrs on 30 August 2015 to 0700 on 31 August 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location and from 1900hrs on 31 August 2015 to 0700hrs on 01 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location.

From 1900hrs to 2115 hrs on 01 September 2015, unloading of soil was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one derrick barge was in operation and the Construction Noise Permit GW-RS0296-15 for the concerned operation was confirmed in place. From 2300hrs on 01 September 2015 to 0700hrs on 02 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location. In view of the above, the construction activities conducted under Contract HK/2012/08 during the concerned period was in compliance with the statutory requirement.

In addition, one derrick barge was deployed for unloading of soil on 02 September 2015 during daytime under Contract HK/2012/08 at the concerned location. Follow-up inspection was conducted during weekly environmental inspection on 08 September 2015 and no dark smoke emission was observed from the derrick barge moored outside the concerned location. Nevertheless, the Contractor of HK/2012/08 was reminded to conduct regular checking on the condition of the all derrick barges deployed on site to ensure only well maintained equipment are used to avoid potential dark smoke emission affecting nearby public and the Contractor of HK/2012/08 was reminded to upkeep the site control system for construction works carrying out at restricted hours and night time for Construction Noise Permit compliance.

The Contractor was reminded to conduct regular checking on the condition of derrick barges deployed on site to ensure only well maintained equipments are used on site to avoid potential dark smoke emission affecting nearby public.



The Contractor of HK/2012/08 was reminded to upkeep the site control system for construction works carrying out at restricted hours and night time for Construction Noise Permit compliance.

6.0.4. The third public complaint regarding water quality referred by EPD was received by ET on 17 September 2015. The complainant reported that Silt from Central and Wan Chai Reclamation was spotted along the coastline (between LUNG WUI ROAD to LUNG WO ROAD, Central & Wan Chai, Hong Kong).

Based on the site records confirmed by RSS, removal of seawall blocks by derrick barge was undertaken by Contract HK/2012/08 at Central Reclamation Phase III works area while mitigation measures including provision of silt curtain implemented by the Contractor of HK/2012/08 during the seawall block removal works. According to relevant record, muddy dispersion at HKCEC2W (area opposite to Lung King Street) was observed by the Environmental Team on 14 September 2015 afternoon. The muddy patch was observed dispersing outside the outer layer silt curtain deployed by the Contractor of HK/2012/08 towards the Central Reclamation Phase III area while the outer layer silt curtain was observed partially opened.

In view of the above observations, the Contractor was advised to rectify any environmental deficiencies such that adequate protection such as silt curtain shall be provided for exposed soil slope to mitigate for potential runoff related water quality impact to the surrounding waters; outer layer silt curtain deployed shall be entirely closed during works to safeguard the surrounding water quality. Any opening for marine vessel shall be closed promptly after passage and localized silt curtain deployed on site shall be properly maintained to avoid any gap or opening to effectively safeguard the nearby waters.

- 6.0.5. Two environmental complaints were received in October reporting month.
- 6.0.6. A public complaint regarding direct discharge of muddy effluent referred by RSS was received by ET on 14 October 2015 (ICC Ref: #2-1438897084) The complainant reported that pink fluid was observed discharged into marine waters at seafront opposite to Watson Road adjacent to the Eastern Breakwater on 11 October 2015.

ET confirmed with Resident Site Staff that no construction activity near the seaside between Eastern Breakwater and the Dumping Jetty was undertaken by Contract HY/2009/19 on 11 October 2015. For site area away from the seawall, construction of EVB substructure, EVB and APS structure was in progress. No work involving the use of paint was carried out at the concerned site area (Site Portion between Eastern Breakwater and the Dumping Jetty) and along the alignment of the Culvert T1 under Contract HY/2009/19 on 11 October 2015. No temporary storage of paint was located at the concerned site area and along the alignment of the Culvert T1 under HY/2009/19 on 11 October 2015.

Based on the site records confirmed by RSS, no construction activity near the seaside between Eastern Breakwater and the Dumping Jetty was undertaken by Contract HY/2009/19 while at site area away from the seawall, construction of EVB substructure, EVB and APS



structure was undertaken on 11 October 2015. In addition, no works involving the use of paint was carried out at the concerned site area (Site Portion between Eastern Breakwater and the Dumping Jetty) and along the alignment of the Culvert T1 under Contract HY/2009/19 and no temporary storage of paint was located at the concerned site area and along the alignment of the Culvert T1 under HY/2009/19 on 11 October 2015.

Follow-up inspection was conducted during weekly environmental inspection on 14 October 2015. No construction works involving the use of paint was observed undertaken at the concerned location while a few number of small containers of paint was observed placed around the concerned location and the paint containers were sealed and no sign of leakage was observed. The few containers were further checked and was found not matching the pink fluid observed on the complaint date. On the other hand, a culvert discharge outfall was found located within the concerned area where the pink fluid was observed.

Based on the above, no direct information indicating the pink fluid was originated from the works area under HY/2009/19 was considered available. Nevertheless, the Contractor was reminded that paints stored on site shall be properly labelled and stored in sealed container at weather proof location to avoid potential spillage.

6.0.7. Second complaint regarding construction noise impact referred by EPD was received by ET on 28 October 2015 (EPD Ref: H05/RS/00027330-15 dated 28 October 2015). The complainant reported that operation of grab dredger at construction site near the ex-Wan Chai Ferry Pier from 01:00hrs to 04:00hrs on 26 October 2015 caused noise nuisance.

ET confirmed with the Resident Site Staff that from 01:00hrs to 04:00hrs on 26 October 2015, rock filling 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.

According to the relevant site records under Contract HK/2009/02, from 01:00hrs to 04:00hrs on 26 October 2015, rock filling 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 and the relevant Construction Noise Permit GW-RS1121-15 for the concerned construction works was in place.

The construction activity conducted under Contract HK/2009/02 during the concerned period was in compliance with the statutory requirement. Nevertheless, the Contractor was reminded to upkeep the site control system for construction works carrying out at restricted hours and night time for Construction Noise Permit compliance in view of the nearby public concern

- 6.0.8. Two environmental complaints were received in November reporting month.
- 6.0.9. A public complaint regarding water quality referred by EPD was received by ET on 16 November 2015 (EPD Ref: H05/RS/00029126-15). The complainant reported that muddy water was discharged from the construction site at HKCEC and dispersed to seafront outside



Lung Wo Road on 13 November 2015 afternoon. The complainant also alleged that the deployment of the silt curtain did not follow the design requirement under the environmental permit that the curtain should be hanged to seabed level.

ET confirmed with Resident Site Staff that rock mound trimming works was undertaken by Contract HK/2012/08 at HKCEC area on 13 November 2015. Mitigation measures including provision of localized silt curtain to around the works area was implemented by the Contract of HK/2012/08.

Based on the site record, rock mound trimming works was conducted under Contract HK/2012/08 at HKECE2 area on 13 November 2015 and mitigation measures including provision of localized silt curtain around the works area was implemented by the Contractor. Follow-up inspection was conducted during weekly environmental inspection on 17 November 2015, both outer layer silt curtain and localized layer of silt curtain around the active works area were observed deployed while the localized silt curtain deployed around the marine works area was observed partially opened for marine access. Despite no muddy dispersion was generate around the localized silt curtain to ensure the effectiveness of the mitigation measure deployed and to ensure the silt curtain is closed after marine vessel movement.

Based on further review on the current construction stage at HKECE2, the dredging works and trench filling works were completed and filling works were conducted behind seawall or temporarily seawall in form of rockbund, the outer layer of silt curtain currently serves as the additional mitigation measure to the required silt curtain deployment for safeguarding the water quality in the area. To clarify for the current silt curtain arrangement, the Contractor was advised to submit an updated silt curtain deployment plan with respect to the latest silt curtain arrangement for the current construction stage. In addition, contaminated discharge at Culvert L originating from upstream locations was intermittently observed based on previous site records. Nevertheless, in view of the public concern, the Contractor was reminded to conduct regular checking on the condition and maintenance for the silt curtain deployed on site to ensure the effectiveness of the mitigation measure.

A joint meeting for the complaint was held amongst the EPD, WDII RSS team, the ET and the Contractor of HK/2012/08 on 24 November 2015 and a joint silt curtain diver inspection check amongst EPD, ET, IEC, WDII RSS and the Contractor was conducted on 27 November 2015 to confirm the silt curtain condition and the silt curtain deployed at the HKCEC2 water channel was found generally in order.

6.0.10. Second public complaint regarding illegal disposal of construction waste referred by EPD was received by ET on 17 November 2015. The complainant reported that a) over 10,000 m3 of bentonite after usage for construction of diaphragm wall was disposed of at Victoria Habour, b)

The Contractor recently deployed mobile crane to transfer the bentonite from mud pit on to works barge. The bentonite was then mixed with soil and transported to the Public Fill. During



the course, seepage of slurry through grab generated drop off to marine waters and the soil mixing generated dust impact to nearby yacht club, typhoon shelter and affect nearby public and boats, c) Disposal of dredged marine sediment was not carried out in accordance with the Management of Dredged/Excavated Sediment. Instead the marine sediment was covered by sand and soil and transported to the Public Fill, d) White or greyish effluent was discharged directly into Victoria Habour marine waters from wastewater treatment plant on construction site.

Interim investigation report was submitted to EPD on 24 November 2015. Due to further investigation undertaken, further information and investigation summary shall be further included in December reporting month.

- 6.0.11. The details of cumulative complaint log and summary of complaints are presented in <u>Appendix 6.1.</u>
- 6.0.12. 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	37
September 2015 - November 2015	7
Project-to-Date	44

#### 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, include caisson seawall installation, ELS works, road works and drainage works and Road P1 pedestrian road reinstatement were performed in November 2015 reporting month. 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 road works at Wan Chai East and caisson installation, 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, ELS works and tunnel works at TS3; IEC demolition and tunnel works at North Point area in the reporting month. In addition, other non-Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects were observed undertaken at Wan Chai North area.
- 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

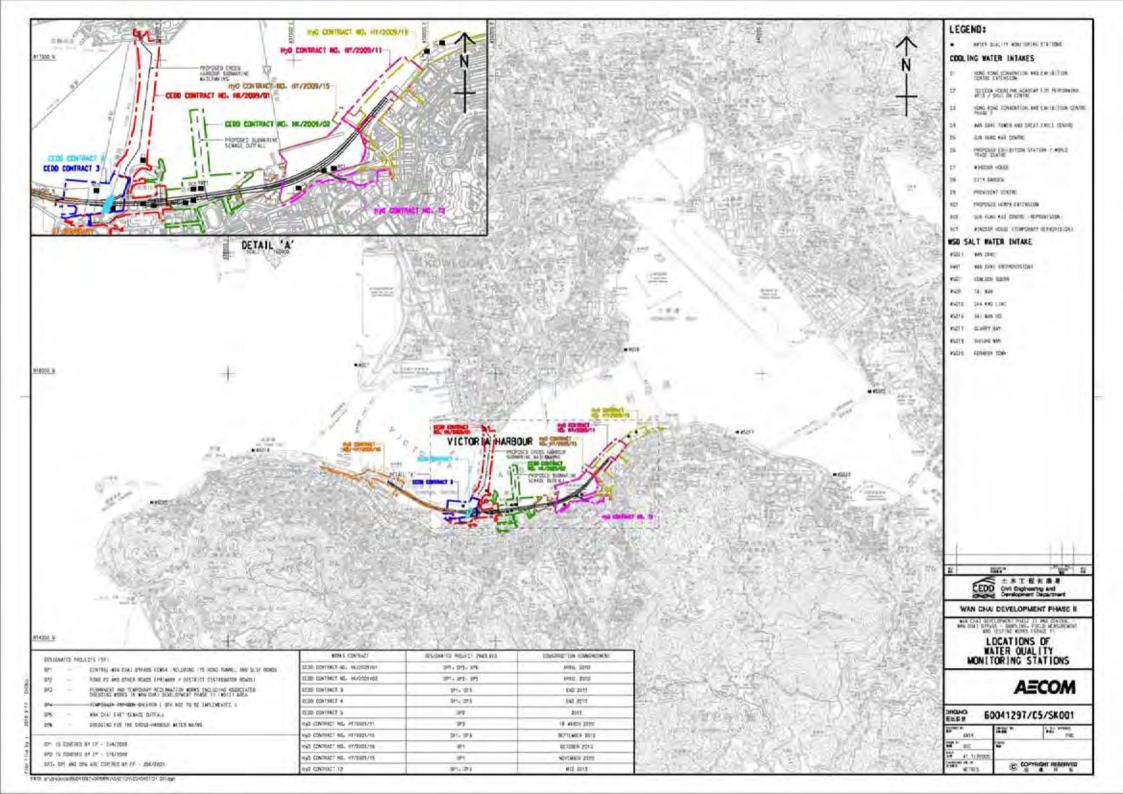
#### 8. CONCLUSION

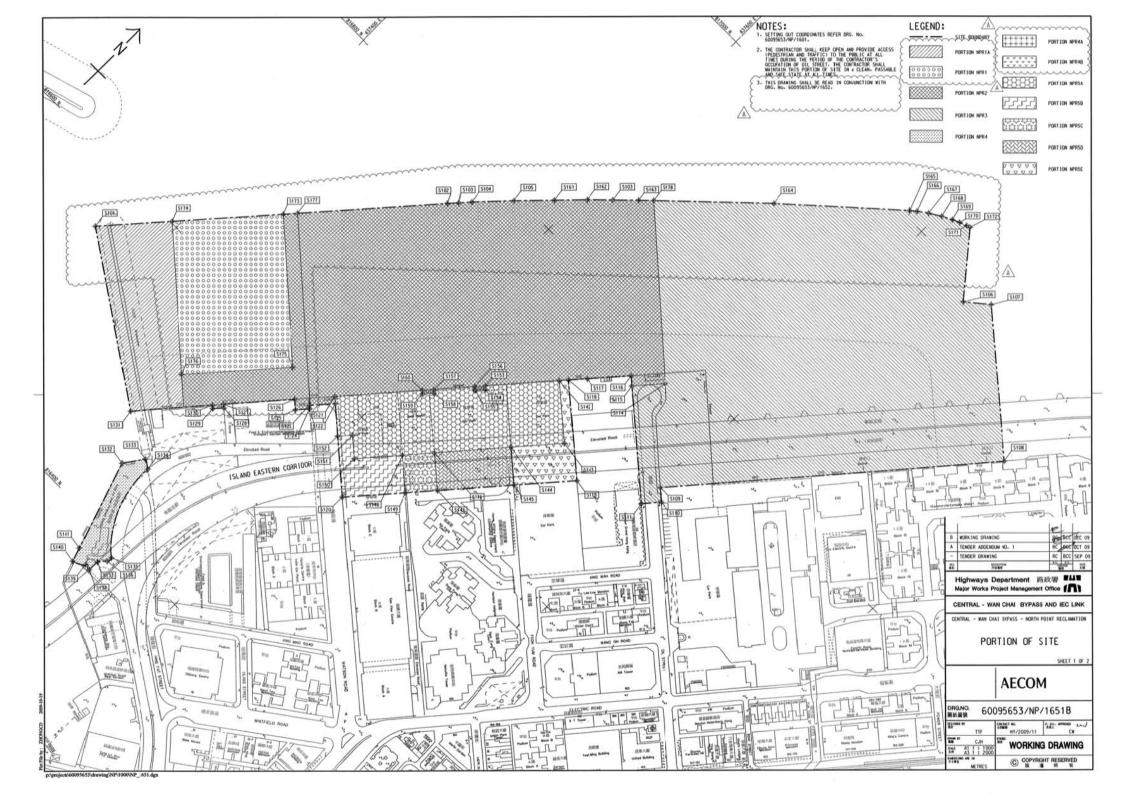
- 8.0.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made in response to changing circumstances.
- 8.0.2. No non-compliance was noted and no prosecution was received during in September and November reporting months.
- 8.0.3. One limit level of turbidity exceedance recorded at monitoring station RW21-P789 on 6 October 2015 in October reporting month was concluded as related to Project works. Rectification measures was implemented by the Contractor and no further exceedance was recorded on the subsequent monitoring.
- 8.0.4. The construction programmes of individual contracts are provided in *Appendix 8.1*.

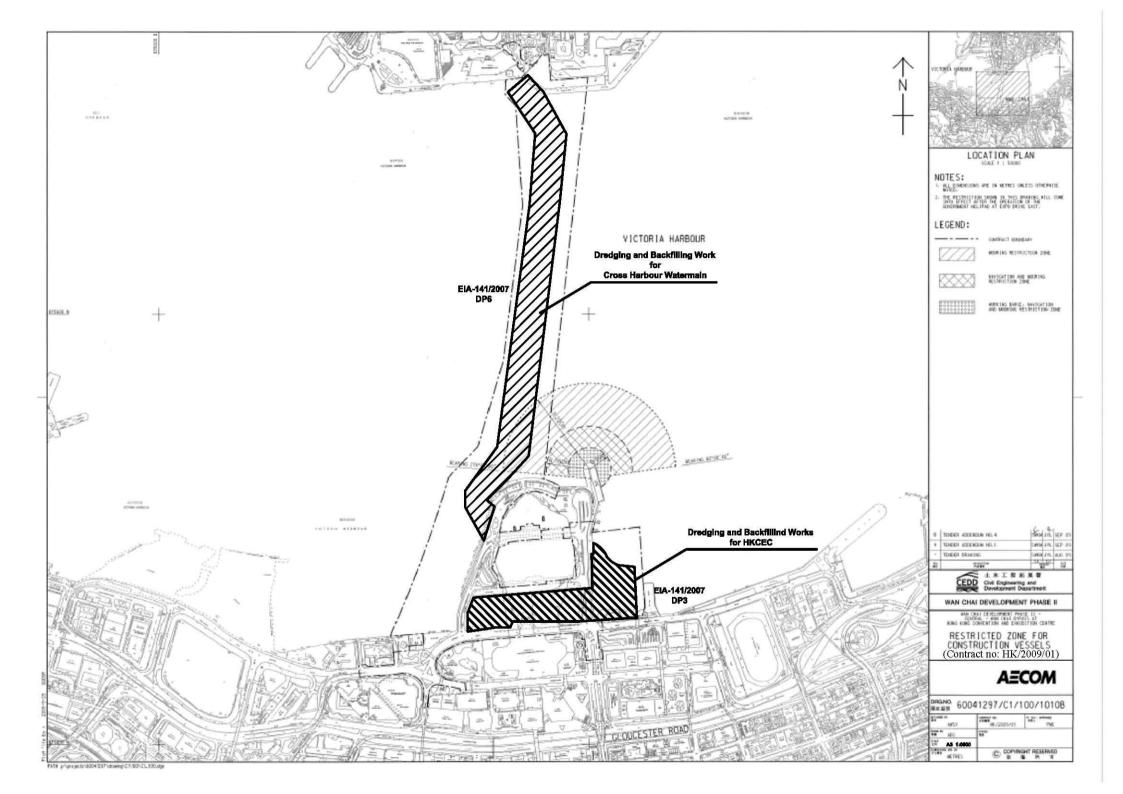


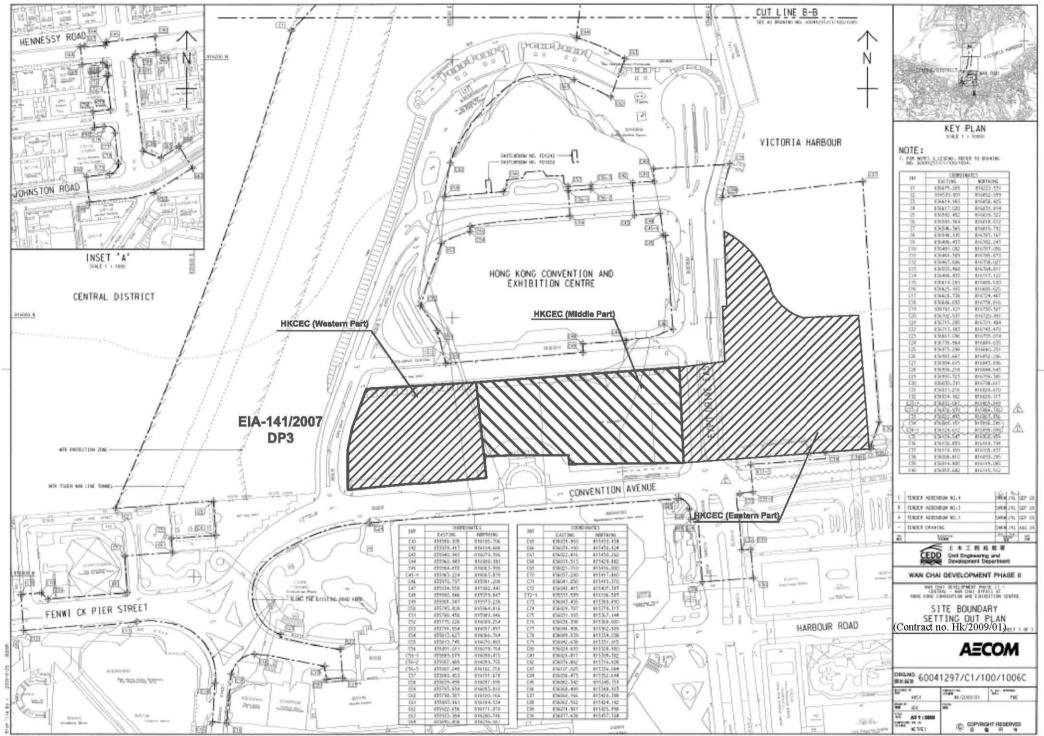
Figure 2.1

Project Layout

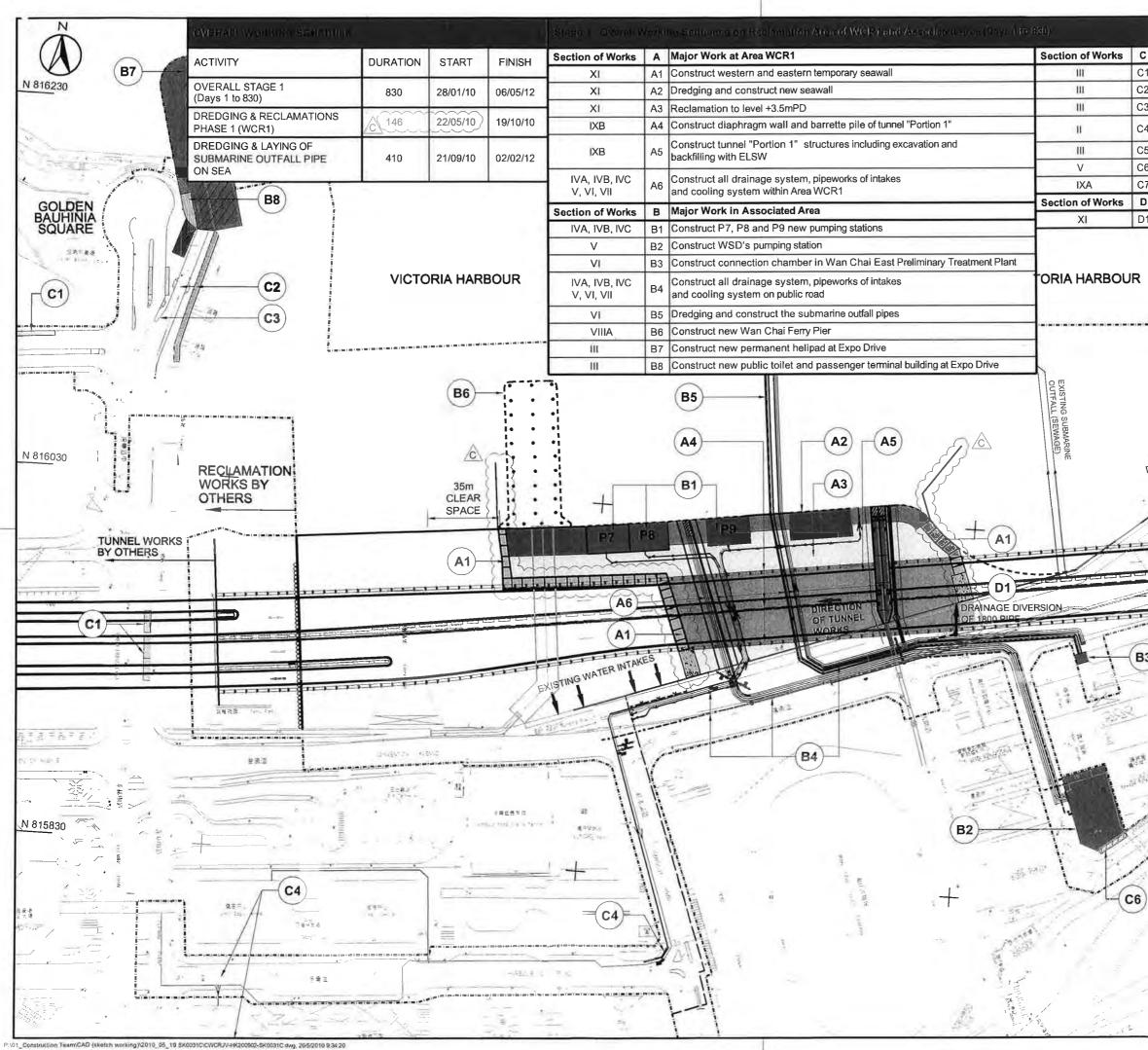




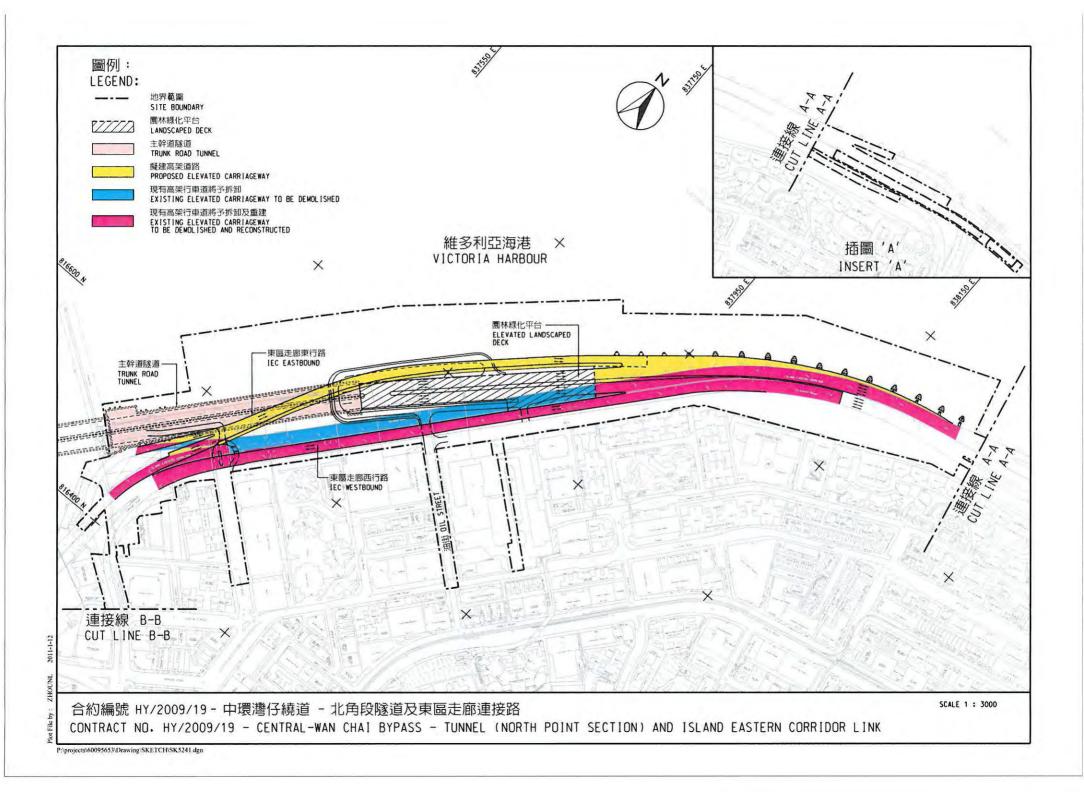


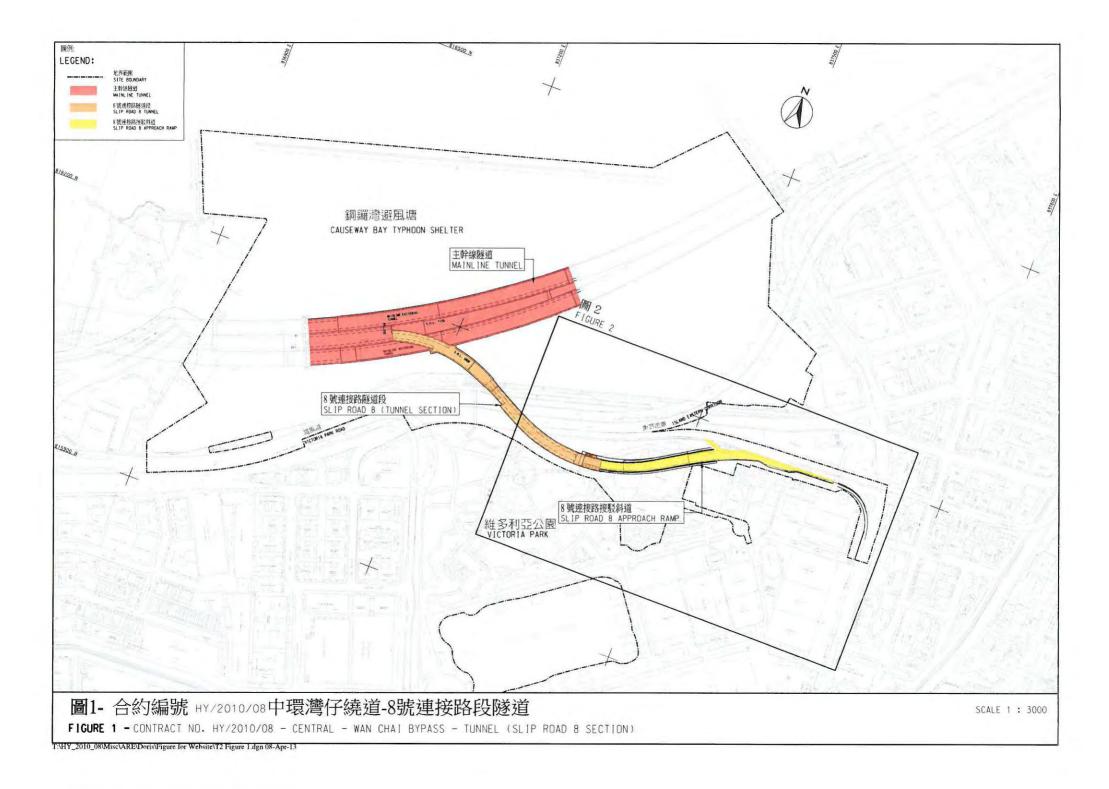


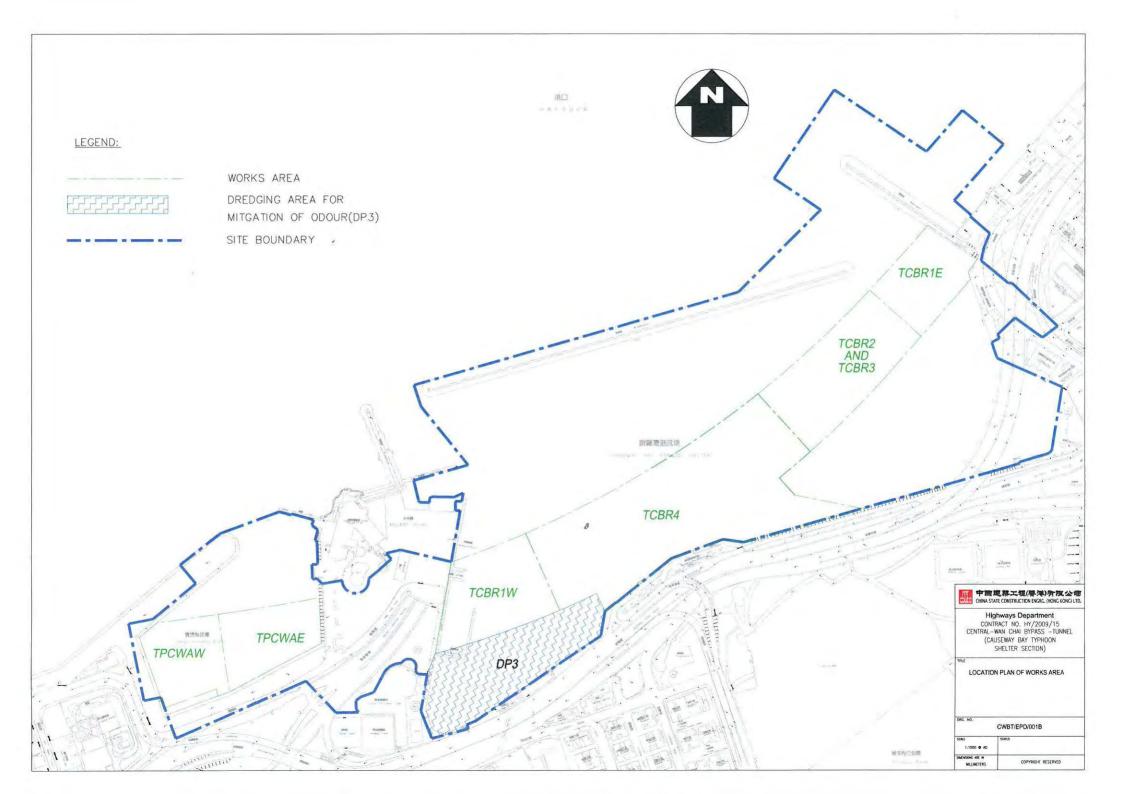
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С	Other Miscellaneous Works	
C1	Construct new taxi and coach bus I	parking space at Expos Drive East
C2		all and provide new EVA at Expo Drive
C3	Road re-alignment work on existing	
C4	Road improvement work at junction	of Harbour Road /
-	Tonnochy 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
D D1	Other Temporary Works Divert existing 1800 mm diameter of	Irain nine
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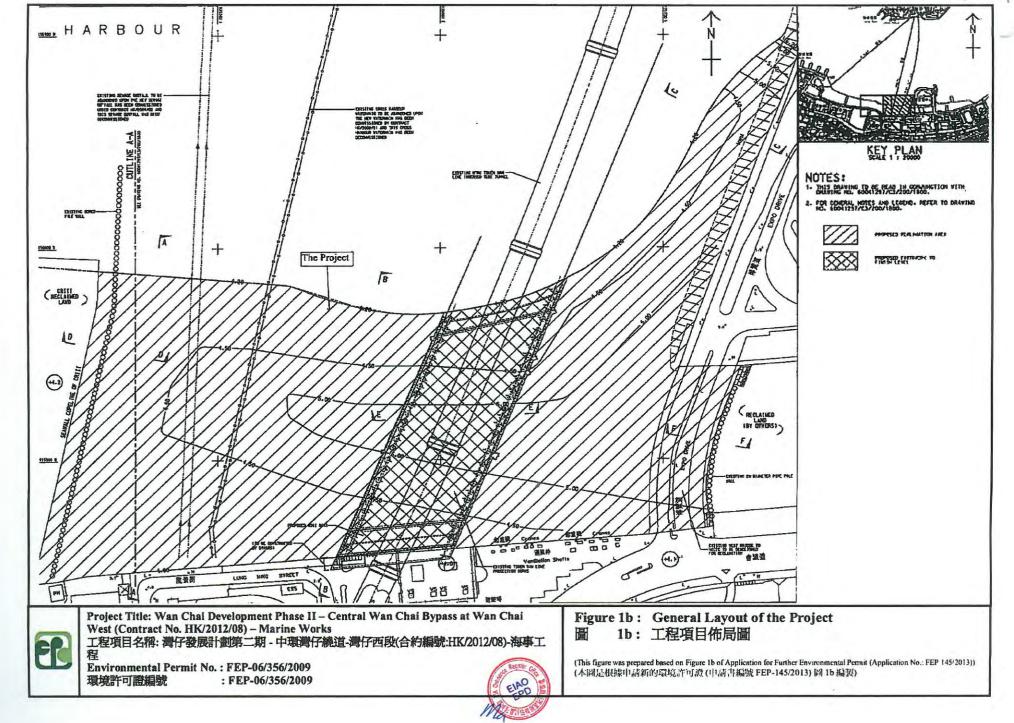
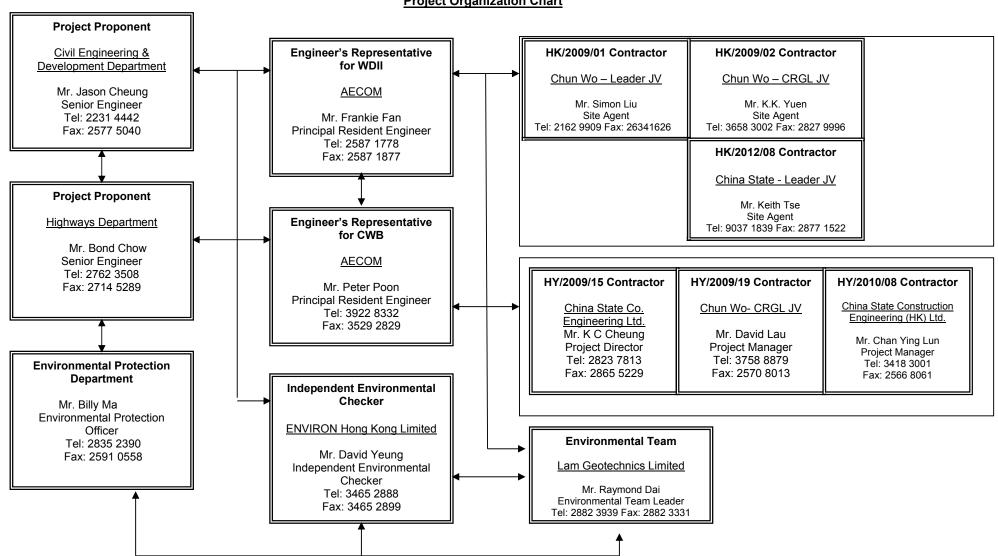




Figure 2.2

Project Organization Chart



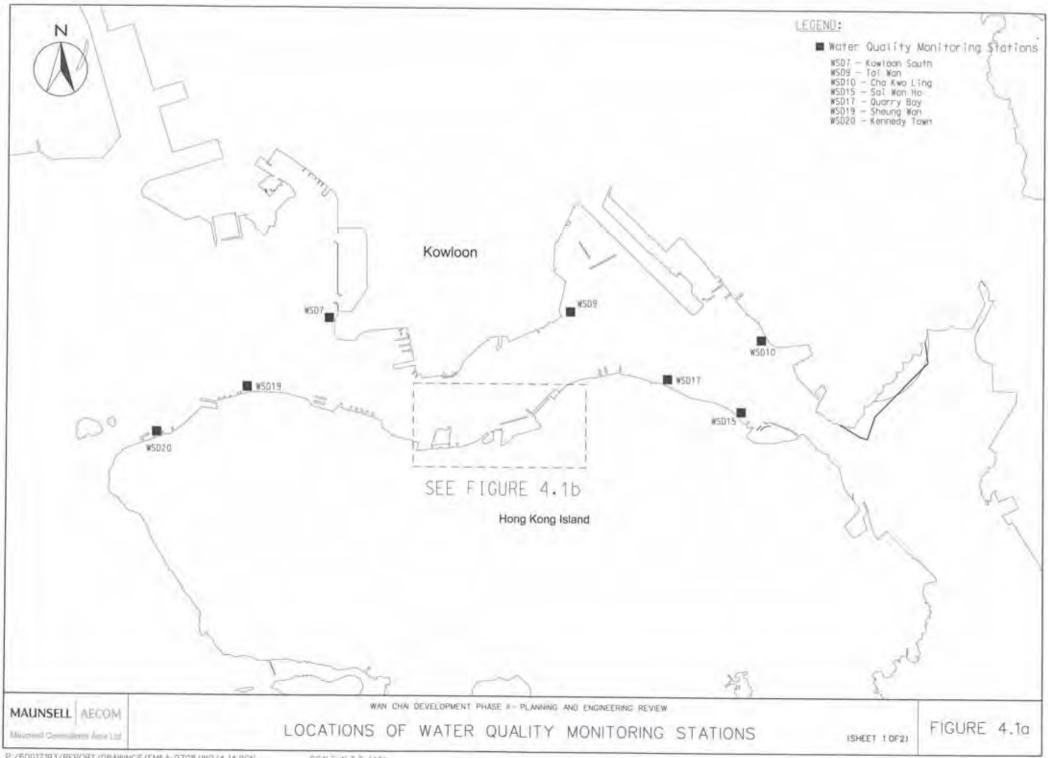


**Project Organization Chart** 



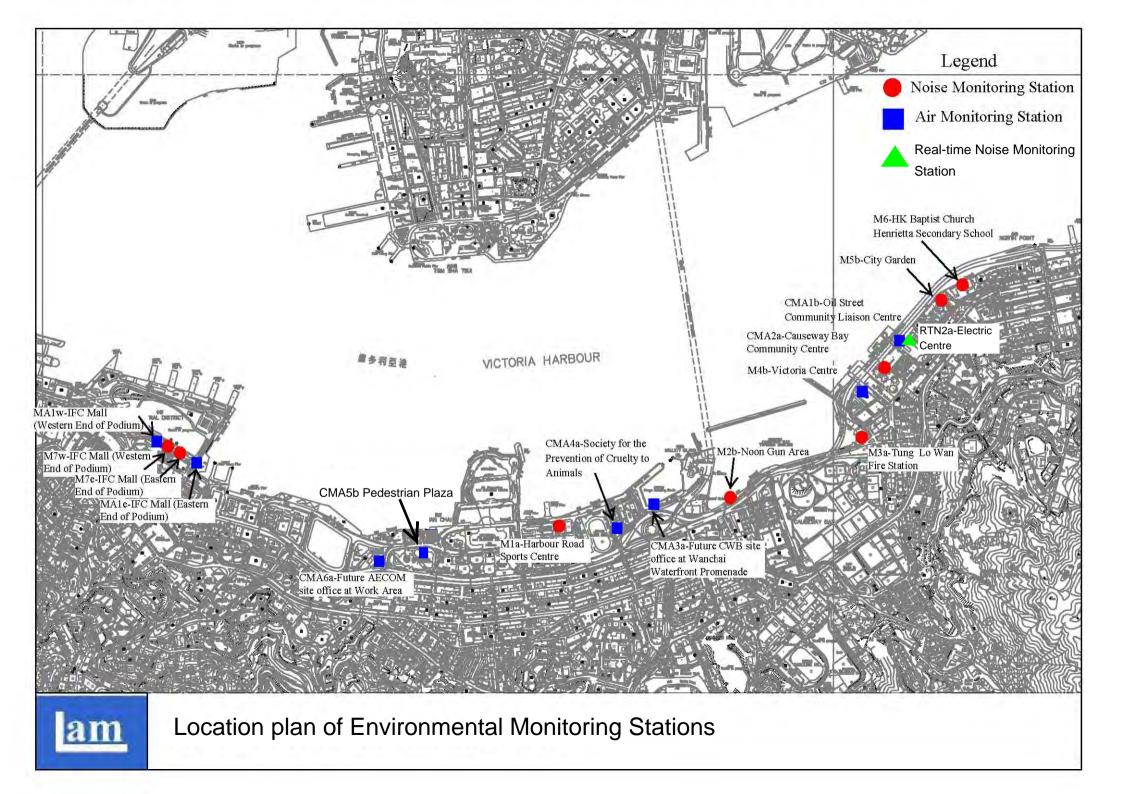
Figure 4.1

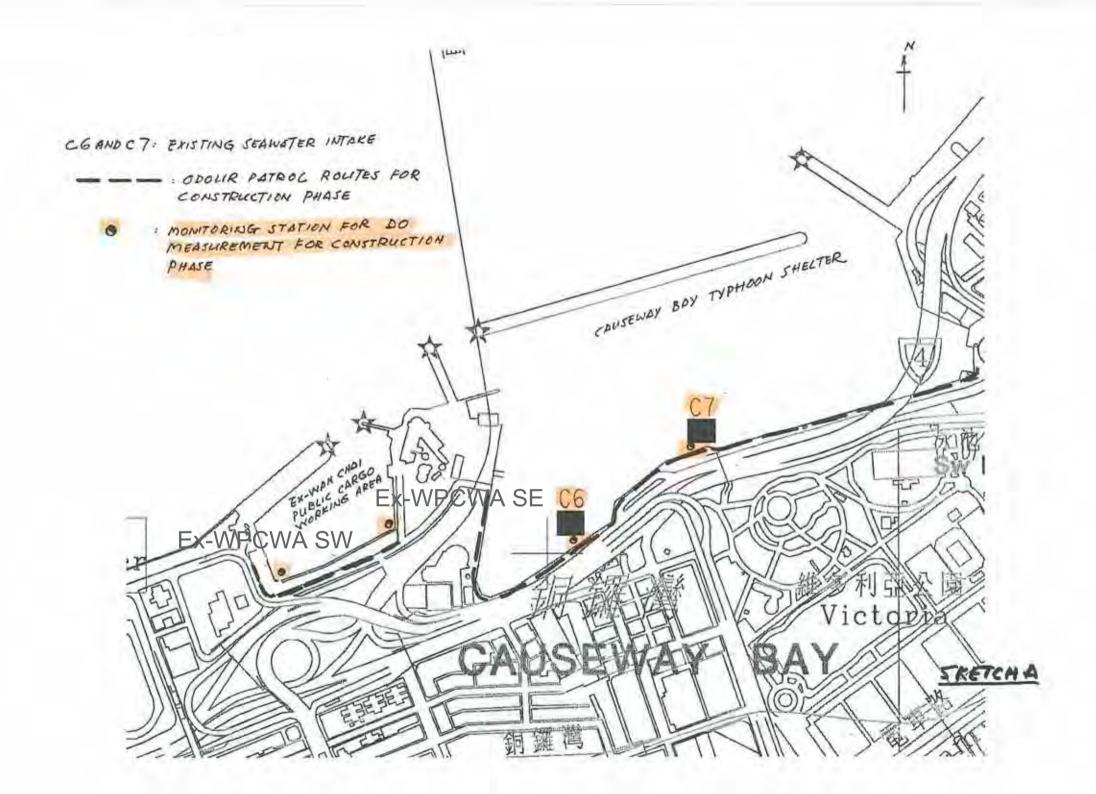
Locations of Monitoring Stations

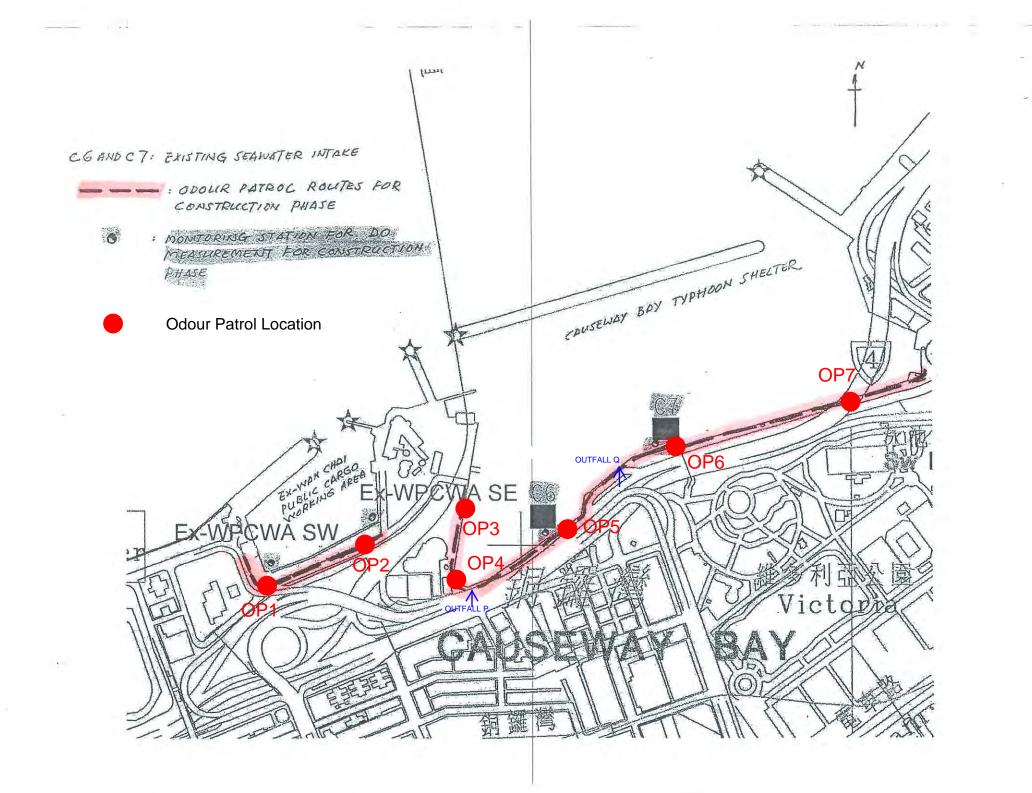


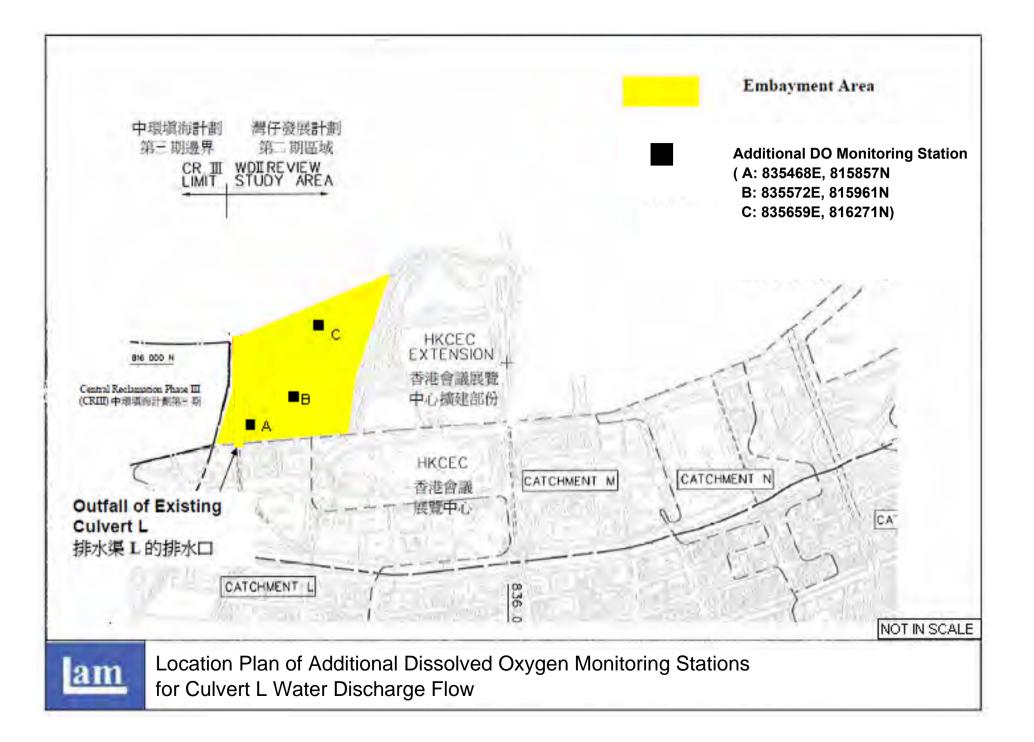
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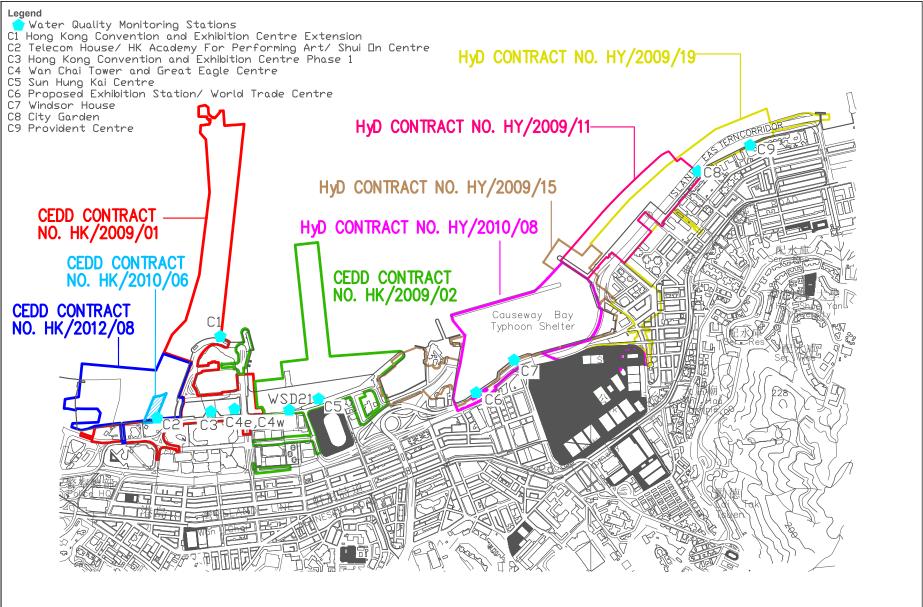
SCALE N.T.S. (AS)



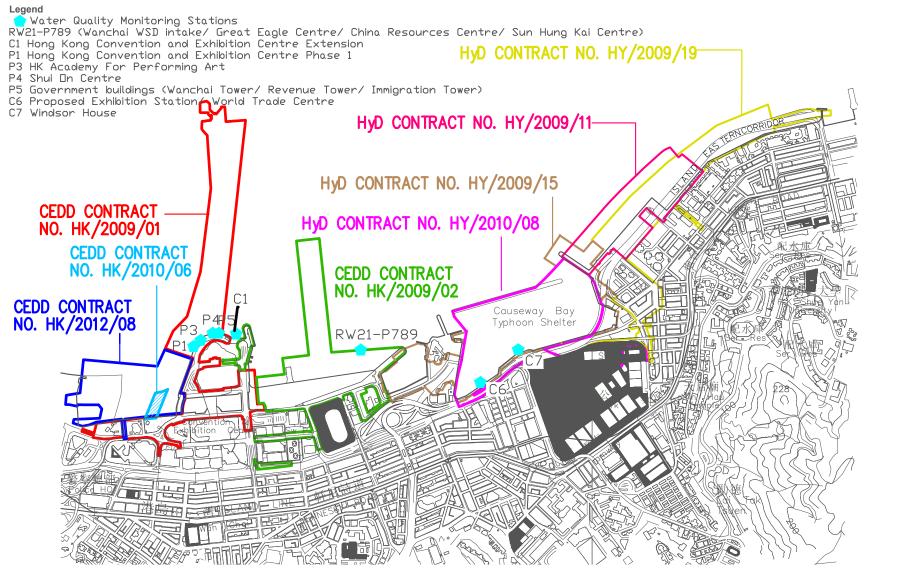




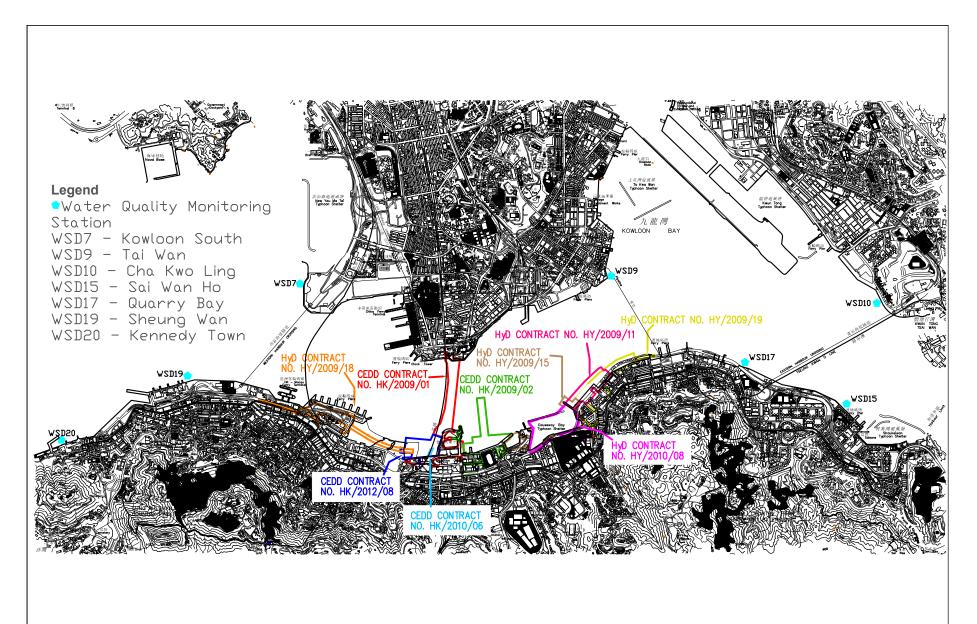




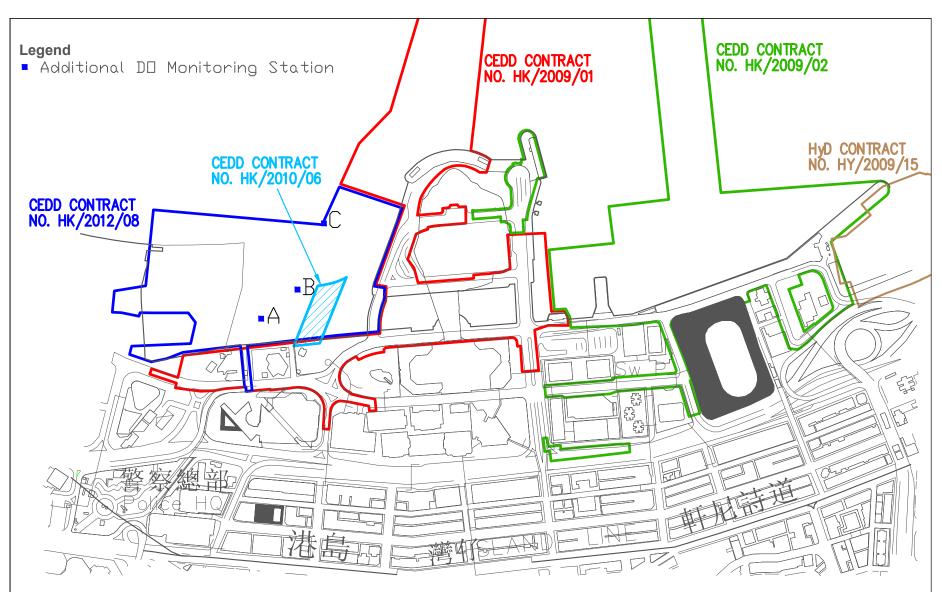
# LOCATIONS OF WATER QUALITY MONITORING STATIONS



# 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	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation
			Agent	Des	С	0	Dec	and Guidelines
Constructio								
For the Wh			1					1
\$3.6.5	Four times a day watering of the work site with active operations.	Work site / during construction	Contractor		V			EIAO-TM
S3.8.1	<ul> <li>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.</li> <li>Strictly limit the truck speed on site to below 10 km per hour and water spraying to keep the haul roads in wet condition;</li> <li>Watering during excavation and material handling;</li> <li>Provision of vehicle wheel and body washing facilities at the exit points of the site, combined with cleaning of public roads where necessary; and</li> <li>Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.</li> </ul>	Work site / during construction	Contractor		V			

#### Appendix 2.1

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	Environmental Protection Measures / Mitigation Measures 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	Corner of CBTS/implementation of	Agent CEDD <sup>1</sup>	Des	C √	0	Dec	and Guidelines
	Officers' Club, the dredging operation will be restricted to only 1 small close grab dredger to minimise the odour impact	CBTS/implementation of	CEDD <sup>1</sup>		V		1	
	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	harbour-front enhancement						EIAO-TM
\$3.8.8	down or restricted to specific non-popular hours in weekdays when it is necessary during construction. 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 <sup>2</sup>		V			EIAO-TM
Operation Pl	hase							L

<sup>&</sup>lt;sup>1</sup> CEDD will identify an implementation agent.

<sup>&</sup>lt;sup>2</sup> CEDD will identify an implementation agent.

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation and Guidelines
		Liocation , Thining	Agent	Des	С	0	Dec	
\$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.	Breakwater)/First 5-year period of operation phase	CEDD <sup>1</sup>			V		EIAO-TM
For DP1 -	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

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Quarterly EM&A Report

#### Table A13.2 Implementation Schedule for Noise Control

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

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
	Environmental Protection Measures / Mitigation Measures	Location / Thing	Agent	Des	С	0	Dec	and Guidelines
\$4.9.4	<ul> <li>Good Site Practice:</li> <li>Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program.</li> <li>Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program.</li> <li>Mobile plant, if any, shall be sited as far away from NSRs as possible.</li> <li>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.</li> <li>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.</li> <li>Material stockpiles and other structures shall be effectively utilized, wherever practicable, in screening noise from onsite construction activities.</li> </ul>	Work Sites / During Construction	Contractor	Des		0	Dec	EIAO-TM, NCO
For DP1 – (								

#### 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 / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
	g		Agent	Des	С	0	Dec	and Guidelines
\$4.8.3 – \$4.8.5	<ul> <li>Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks:</li> <li>Slip road 8 tunnel</li> <li>Construction of diaphragm wall and substructures of the tunnel approach ramp</li> <li>Excavation</li> <li>Construction of slabs</li> <li>Backfill</li> <li>Demolition and construction of substructures for the IEC</li> <li>Demolition works of existing piers and crossheads of the marine section of the existing IEC</li> <li>Use of PME grouping for the following tasks:</li> <li>At-grade road construction</li> <li>Substructure for IECL connection</li> </ul>	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO
For DP2 –	WDII Major Roads (Road P2)							
\$4.8.3 - \$4.8.4	Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks: • Temporary road diversion • Resurfacing • At-grade roadwork	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO
For DP3 -	Reclamation Works							
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment for the following task: • Filling behind seawall • Seawall construction	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*				Relevant Legislation
	Linni olimentari i roteculori ricultari es / rinugation ricultari es	Documon / 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
	<ul><li>Use of quiet powered mechanical equipment and movable noise barrier for the following tasks:</li><li>Installation of a new pipeline (land section)</li></ul>							
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

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 / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	Relevant Legislation	
		0	Agent	Des	С	0	Dec	and Guidelines
Operation 1	Phase							
For DP1 -	CWB (Within the Project Boundary)							

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation	
		Location / Thing	Agent	Des	С	0	Dec	and Guidelines	
S4.8.14 – S4.8.18	<ul> <li>For Existing NSRs</li> <li>about 235m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC</li> <li>about 230m length of noise semi-enclosure with transparent</li> </ul>	Near North Point / Before commencement of operation of road project	HyD	V	V	V		EIAO-TM	
	<ul> <li>panel covering the main carriageways (eastbound and westbound) of the CWB and IEC</li> <li>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</li> </ul>	er el h h In between the Electric Centre (next to City							
	<ul> <li>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</li> </ul>								
	<ul> <li>about 350m length of 3.5m high vertical noise barrier with transparent panel on the eastbound slip road to the IEC</li> <li>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</li> </ul>								
	<ul> <li>For Future/Planned NSRs</li> <li>about 265m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC</li> </ul>		HyD	V	√ #				

#### Appendix 2.1

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Quarterly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	s Location / Timing Im	s Location / Timing Im	Implementation	In	nplem Staş		on	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	Im	plem Stag	entatio ges*	on	Relevant Legislation
		Timing	Agent	Des	С	0	Dec	and Guidelines
Constructio	n Phase							
For DP3 – Boundary)	Reclamation Works, DP5 (Wan Chai East Sewage Outfall), DP6 (Cross-Harbo	our Water Mains	from Wan Chai to T	sim Sha	a Tsu	i), DP1	1 – CW	B (within the Project
\$5.8	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
\$5.8	<ul> <li>Dredging shall be carried out by closed grab dredger for the following works:</li> <li>Seawall construction in all the reclamation areas;</li> <li>Construction of the CWB Tunnel</li> <li>Construction of the proposed WSD water mains; and</li> <li>Construction of the proposed Wan Chai East sewage outfall pipelines.</li> </ul>	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8, Figure 5.3	<ul> <li>Dredging for the Wan Chai East sewage outfall pipelines shall not be carried out concurrently with the following activities:</li> <li>Dredging along the proposed cross-harbour water mains;</li> <li>Dredging along the seawall in the Wan Chai Reclamation (WCR) zone (area between HKCEC Extension and PCWA).</li> </ul>	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 / 1	Mitigation Measures		Location /	Implementation	In		entati ges*	ion	Relevant Legislation
				Timing	Agent	Des	С	0	Dec	and Guidelines
S5.8	The water body behind the temporary ree typhoon shelter shall not be fully enclose	rary reclamations within the Causeway Bay 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 bar discharge flows from Culvert L to the contractor will maintain this barrier	s a mitigation measure, to avoid the accumulation of water borne pollutants thin the temporary embayment between CRIII and HKCEC1, an upermeable barrier, suspended from a floating boom on the water surface d extending down to the seabed, will be erected by the contractor before e HKCEC1 commences. The barrier will channel the stormwater scharge flows from Culvert L to the outside of the embayment. The ntractor will maintain this barrier until the reclamation works in KCEC2W are carried out and the new Culvert L extension is constructed.					√			EIAO-TM, WPCO
S5.8, Figure 5.3	The total dredging rates in each of the m than the maximum production rates state production rates without considering the	ed in the table below.		Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
	Reclamation Area	Maximum Dredging Rate m <sup>3</sup> per day (for 16 hrs per day)	Maximum Dredging Rate (m <sup>3</sup> per week)							
	Dredging along seawall or breakwater           North Point Shoreline Zone (NPR)         6.000         375         42.000		42,000							
	North Point Shoreline Zone (NPR) Causeway Bay TBW	6,000 375 1,500 94	42,000							
	Shoreline Zone TCBR	6,000 375	42,000							
	PCWA Zone	5,000 313	35,000							

EIA Ref	Environmental Protection Measures / M	litigation	Measures		Location /	Implementation	In		entati ges*	on	Relevant Legislation
		ingunon	ivitusui es		Timing	Agent	Des	С	0	Dec	and Guidelines
	Wan Chai Shoreline Zone (WCR)           HKCEC Shoreline Zone         HKCEC Stage 1 & 3           (HKCEC)         HKCEC Stage 2           Cross Harbour Water Mains         HKCEC Stage 2           Wan Chai East Submarine Sewage Pipeline         Swage Pipeline	6,000 1,500 6,000 1,500 1,500	375 94 375 94 94	42,000 10,500 42,000 10,500 10,500							
\$5.8, Figure 5.3	Note: 1,500 m <sup>3</sup> per day shall be applied seawall of WCR1. Dredging along the seawall at WCR1 1,500m <sup>3</sup> per day for construction of the proximity of the WSD intake), followed b western seawall (above high water mark much as possible from further dredging a	shall be western so y partial so ) to protect	e undertak eawall (wh eawall con	en initially at ich is in close struction at the	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
\$5.8, Figure 5.3	For dredging within the Causeway Bay partially constructed to protect the nea dredging activities. For example, at T seawalls shall be constructed first (abc seawater intakes at the inner water would the remaining dredging activities along the	typhoon rby seawa CBR1W, ove high be protect	the souther water marked from the	s from further rn and eastern k) so that the e impacts from	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8, Figure 5.3	Silt curtains shall be deployed around seawall dredging and seawall trench filli TCBR and NP.				Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
\$5.8, Figure 5.3	Silt screens shall be applied to seawater ir as stated below:       Interim Construction     Location of Applied       Stage     Scenario 2A in early       WSD saltwatt     Bay, Sheung W       2009 with concurrent     Gooling water       HKCEC, WCR, TPCWA,     and Exhibition	pplications er intakes /an, Wan C r intakes fo	at Sai Wa hai, Kowloo or Hong Ko	in Ho, Quarry n South ng Convention	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO

## 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	iplem Stag	entatio ges*	on	Relevant Legislation
		Timing	Agent	Des	С	0	Dec	and Guidelines
	TBW, NP and Water       Convention and Exhibition Centre Phase I, Telecom         Mains Zone       HK Academy for Performing Arts / Shun On         Centre, Wan Chai Tower / Revenue Tower / Immigration Tower and Sun Hung Kai Centre         Scenario 2B in late       WSD saltwater intakes at Sheung Wan, Wan Chai         2009/2010       with         concurrent       dredging         activities at Sewage       Pipelines         Pipelines       Zone and         TCBR.       WSD saltwater intakes at Sheung Wan and         Scenario 2C in 2011 with       WSD saltwater intakes at Sheung Wan and         cooling water intakes for MTR South, Excelsior       Hotel & World Trade Centre and reprovisioned         TCBR.       Cooling water intakes for MTR South, Excelsior         Hotel & World Trade Centre and reprovisioned       Windsor House.							
S5.8	<ul> <li>Other mitigation measures include:</li> <li>mechanical grabs, if used, shall be designed and maintained to avoid spillage and sealed tightly while being lifted. For dredging of any contaminated mud, closed watertight grabs must be used;</li> <li>all vessels shall be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash;</li> <li>all hopper barges and dredgers shall be fitted with tight fitting seals to their bottom openings to prevent leakage of material;</li> <li>construction activities shall not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds;</li> <li>loading of barges and hoppers shall be controlled to prevent splashing of dredged material into the surrounding water. Barges or hoppers shall not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation; and</li> </ul>	Work site / During the construction period	Contractor		V			ProPECC PN 1/94; WPCO (TM-DSS)

EIA Ref	Ref Environmental Protection Measures / Mitigation Measures		Implementation	In		entati ges*	on	Relevant Legislation
		Timing	Agent	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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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation
		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 I 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>		V			WPCO

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Implementation		Implementation Stages*				Relevant Legislation
EIA KU	Environmental Procedon Measures / Mitigation Measures	Timing	Agent	Des	С	0	Dec	and Guidelines
For the Wh	oole Project							
S5.8	Construction Runoff and Drainage	Work site	Contractor		V			ProPECC PN 1/94; WPCO (TM-DSS)
	• 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						WICO (IM-D55)
	• 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;							
	<ul> <li>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;</li> </ul>							
	• 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;							
	<ul> <li>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;</li> </ul>							
	<ul> <li>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;</li> </ul>							
	<ul> <li>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</li> </ul>							

<sup>3</sup> CEDD will identify an implementation agent.

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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	asures / Mitigation Measures Location / Impleme		In		entati ges*	on	Relevant Legislation
		Timing	Agent	Des	С	0	Dec	and Guidelines
	<ul> <li>required.</li> <li>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.</li> </ul>							
	• 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		$\checkmark$			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	nplem Sta	entati ges*	on	Relevant Legislation
		Timing	Agent	Des	С	0	Dec	and Guidelines
S5.8	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	~			WPCO
Operation								
<u>DP1 - CWI</u> S5.8	<ul> <li>B (within the Project Boundary)</li> <li>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:</li> <li>The drainage from tunnel sections shall be directed through petrol interceptors to remove oil and grease before being discharged to the nearby foul water manholes.</li> <li>Petrol interceptors shall be regularly cleaned and maintained in good working condition.</li> <li>Oily contents of the petrol interceptors shall be properly handled and disposed of, in compliance with the requirements of the Waste Disposal Ordinance.</li> <li>Sewage arising from ancillary facilities of CWB (for examples, car park,</li> </ul>	CWB/During design and operational period	HyD/TD <sup>3</sup>	~		V		WPCO

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Implementation Timing Agent	- Stage				on	Relevant Legislation
	ů.	Timing	Agent	Des	С	0	Dec	and Guidelines
	<ul> <li>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.</li> <li>Road drainage shall also be provided with adequately designed silt trap to minimize discharge of silty runoff.</li> <li>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.</li> </ul>							

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

<sup>3</sup> 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	In	nplem Sta	entati ges*	ion	Relevant Legislation
		Liocution / Thining	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
\$6.7.2	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 <sup>3</sup> . 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	Implementation Stages*				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	<ul> <li>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:</li> <li>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.</li> </ul>							

EIA Ref Er	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.	Location / Timing	Agent	Des	С	0	Dec	and Guidelines
	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.							
Du co wi the as	<b>Cloating Refuse</b> During the construction phase, the project proponent's ontractor will be responsible for the collection of any refuse within their works area. Floating booms will be provided on he water surface to confine the refuse from the working barges s well as to avoid the accumulation of pollutants within emporary embayment as mentioned in Table 13.3.	Work site / During the construction period	Contractor		V			

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Stag	entati ges*	on	Relevant Legislation
	g		Agent	Des	С	0	Dec	and Guidelines
S6.7.7	<ul> <li>Good Site Practices</li> <li>Recommendations for good site practices during the construction activities include:</li> <li>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;</li> <li>training of site personnel in proper waste management and chemical waste handling procedures;</li> <li>provision of sufficient waste disposal points and regular collection for disposal;</li> <li>appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers;</li> <li>regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; and</li> <li>a recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites).</li> </ul>	Work site / During the construction period	Contractor					Waste Disposal Ordinance (Cap.354)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation and Guidelines
		Location, Thing	Agent	Des	С	0	Dec	
S6.7.8	<ul> <li>Waste Reduction Measures</li> <li>Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include:</li> <li>segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal;</li> <li>to encourage collection of aluminium cans, PET bottles and paper, separate labelled bins shall be provided to segregate these wastes from other general refuse generated by the work force;</li> <li>any unused chemicals or those with remaining functional capacity shall be recycled;</li> <li>use of reusable non-timber formwork, such as in casting the tunnel box sections, to reduce the amount of C&amp;D material.</li> <li>prior to disposal of C&amp;D waste, it is recommended that wood, steel and other metals shall be separated for re-use and / or recycling to minimise the quantity of waste to be disposed of to landfill;</li> <li>proper storage and site practices to minimise the potential for damage or contamination of construction materials; and</li> <li>plan and stock construction materials carefully to minimise amount of waste.</li> </ul>	Work site / During planning and design stage, and construction stage	Contractor	V	1			

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Stag	entati ges*	on	Relevant Legislation
	g		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
\$6.7.12	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		entati ges*	on	Relevant Legislation
		Liocution / Timing	Agent	Des	С	0	Dec	and Guidelines
\$6.7.13	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	<ul> <li>Bentonite Slurry</li> <li>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:</li> <li>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.</li> <li>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.</li> <li>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.</li> </ul>	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	nplem Sta	entati ges*	on	Relevant Legislation
		Docution / 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	<ul> <li>During soil remediation works, the Contractor for the excavation works shall take note of the following points for excavation:</li> <li>Excavation profiles must be properly designed and executed;</li> <li>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;</li> <li>Quantities of soil to be excavated must be estimated;</li> <li>It maybe necessary to split quantities of soil according to soil type, degree and nature of contamination.</li> <li>Temporary storage of soil at intermediate depot or on-site</li> </ul>	A King Marine / During soil remediation works	Contractor	~				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		entati ges*	on	Relevant Legislation
-	e e e e e e e e e e e e e e e e e e e			Des	С	0	Dec	and Guidelines
	maybe required. The storage site shall include protection facilities for leaching into the ground. eg. Liner maybe required.							
	<ul> <li>Supply of suitable clean backfill materials is needed after excavation.</li> <li>Care must be taken of existing buildings and utilities.</li> <li>Precautions must be taken to control of ground settlement</li> <li>Speed controls for vehicles shall be imposed on dusty site areas.</li> <li>Vehicle wheel and body washing facilities at the site's exit points shall be established and used.</li> <li>The following environmental mitigation measures shall be strictly followed during the operation and/or maintenance of the CS/S facilities:</li> </ul>							Water Pollution Control Ordinance

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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
	<ul> <li><u>Air Quality Mitigation Measures</u></li> <li>The loading, unloading, handling, transfer or storage of cement shall be carried out in an enclosed system.</li> <li>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.</li> <li>All practicable measures, including speed controls for vehicles, shall be taken to prevent or minimize the dust emission caused by vehicle movement.</li> <li>Tarpaulin or low permeable sheet shall be put on dusty vehicle loads transported between site locations.</li> </ul>							
	<ul> <li>Noise Mitigation Measures</li> <li>The mixing facilities shall be sited as far as practicable to the nearby noise sensitive receivers.</li> <li>Simultaneous operation of mixing facilities and other equipment shall be avoided.</li> <li>Mixing process and other associated material handling activities shall be properly scheduled to minimise potential cumulative noise impact on the nearby noise sensitive receivers.</li> <li>Construction Noise Permit shall be applied for the operation of powered mechanical equipment during restricted hours (if any).</li> </ul>							

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	Relevant Legislation	
		Liocation, Thining	Agent	Des	С	0	Dec	and Guidelines
	<ul> <li><u>Water Quality Mitigation Measures</u></li> <li>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.</li> </ul>							
	<ul> <li><u>Waste Mitigation Measures</u></li> <li>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.</li> <li>Stabilized soils shall be broken into suitable size for backfilling or reuse on site.</li> <li>A high standard of housekeeping shall be maintained within the mixing plant area.</li> </ul>							
	<ul> <li>If necessary, there shall be clear and separated areas for stockpiling of untreated and treated materials.</li> </ul>							

\* 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 Agent	Implementation Stages*				Relevant Legislation
	g			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 – I	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.

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
	2. A Manual Contraction Account of a stranger of a stranger of the	Location, Thinning	Agent	Des	С	0	Dec	and Guidelines
S.9.7.4	<ul> <li>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: <ul> <li>Installation of silt curtains during dredging activities</li> <li>Use of tightly-closed grab dredger</li> <li>Reduction of dredging rate</li> <li>Control of grab descending speed</li> <li>Construction of leading edges of seawall in the early stages of the reclamation works</li> </ul> </li> </ul>	Work site / during construction phase	Contractor		V			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		entati ges*	on	Relevant Legislation
	g		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, O - Operation, and Dec - Decommissioning

#### Table A13.7 Implementation Schedule for Landscape and Visual

EIA Ref	Environmental Pro	otection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In		entati ges*	ion	Relevant Legislatio and Guidelines
				0	Des	С	0	Dec	*
Construction	hase								
For the Whole	Project								
Table 10.5	1 /	ere identified, shall be stripped and stored for the construction of the soft landscape works, cal.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	0	es to be retained on site shall be carefully ring construction.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5		voidably affected by the works shall be where practical.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5		ry tree planting shall be provided to for felled trees.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM5 Control of n	ight-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Table 10.5	CM6 Erection of the surround	decorative screen hoarding compatible with ling setting.	Work site / During Construction Phase	Contractor		V			EIAO TM
For DP1 - CV	B (Within the Projec	t Boundary)							
Table 10.5	1 /	ere identified, shall be stripped and stored for construction of the soft landscape works, cal.	Work site / During Construction Phase	Contractor		V			EIAO TM
Table 10.5		es to be retained on site shall be carefully ring construction.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5		voidably affected by the works shall be where practical.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	1	ry tree planting shall be provided to for felled trees.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM5 Control of n	ght-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	Stages*			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)		<u> </u>		1		1	
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		V			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		V			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 DP5 - Wa	ı 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	Implementation Stages*				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							
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
<b>Operation Pha</b>	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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Table 10.6, Figure 10.5.1- 10.5.5OM3 and associated structures.Buffer Tree and Shrub Planting to screen proposed roads and associated structures.Work site / During Design Stage and Operation PhasesCEDD/HyD/ VVVVVVZTable 10.6, Figure 10.5.1- 10.5.5OM4Aesthetic design of proposed waterfront promenade.Work site / During Design Stage and Operation PhasesCEDD/HyDVV </th <th>EIA Ref</th> <th colspan="2">Environmental Protection Measures / Mitigation Measures</th> <th>Location / Timing</th> <th>Implementation Agent</th> <th colspan="4">Implementation Stages*</th> <th>Relevant Legislation and Guidelines</th>	EIA Ref	Environmental Protection Measures / Mitigation Measures		Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines
Figure 10.5.1- 10.5.5       and associated structures.       Design Stage and Operation Phases       CEDD <sup>4</sup> V       V						Des	С	0	Dec	
10.5.5       Operation Phases       Image: CEDD Phases	Table 10.6,	OM3	Buffer Tree and Shrub Planting to screen proposed roads	Work site / During	CEDD/HyD/					ETWB TCW 2/2004
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_4       V	Figure 10.5.1-		and associated structures.	Design Stage and						
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10.5.5     Operation Phases     Image: Constraint of the set of		OM3			HyD	$\checkmark$				ETWB TCW 2/2004
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		OM6	Aesthetic design of roadside amenity areas.		HyD	$\checkmark$		$\checkmark$		ETWB TCW 2/2004
	0									
10.5.5 Operation Phases For DP2 – WDII Major Roads (Road P2)	10.5.5			Operation Phases						

<sup>4</sup> CEDD will identify an implementation agent

EIA Ref	Enviro	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	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 – Reclamation Works									
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 <sup>5</sup>	$\checkmark$	V	V		ETWB TCW 2/2004

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

<sup>5</sup> 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) <sup>Note 1</sup>

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 $\mu$ g/m <sup>3</sup>	24-hour TSP Le	vel in $\mu$ g/m <sup>3</sup>
	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 <sup>-1</sup>	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 Intal	(e							
SS in mg L <sup>-1</sup>	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)	<ul> <li>When two documented complaint are received; or</li> <li>Odour Intensity of 2 is measured from odour intensity analysis.</li> </ul>	<ul> <li>Five or more consecutive genuine documented complaints within a week; or</li> <li>Odour Intensity of 3 or above is measured from odour intensity analysis.</li> </ul>

Action and Limit Levels for Odour Patrol

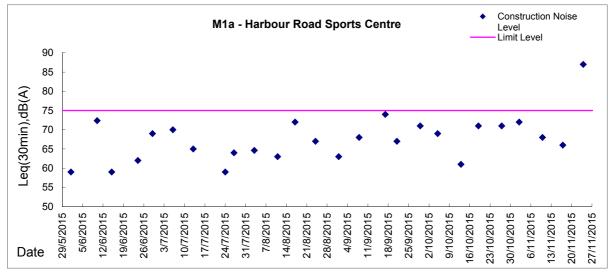


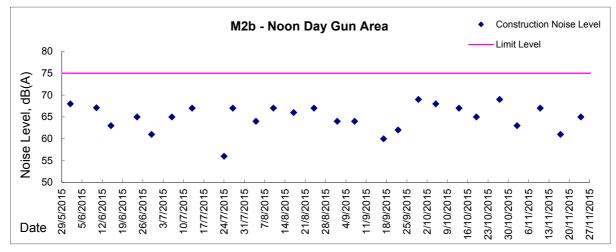
Appendix 4.1

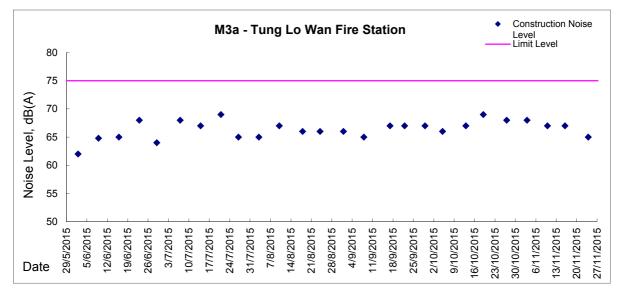
Noise Monitoring Graphical Presentations



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

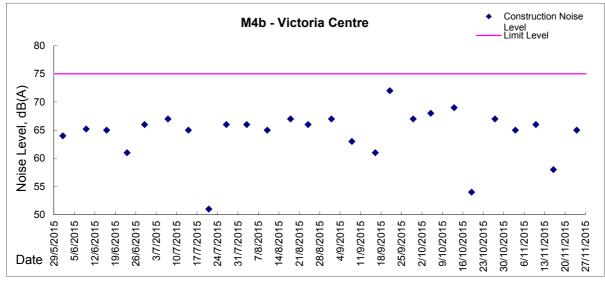


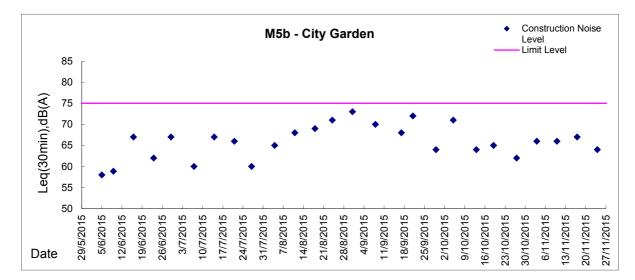


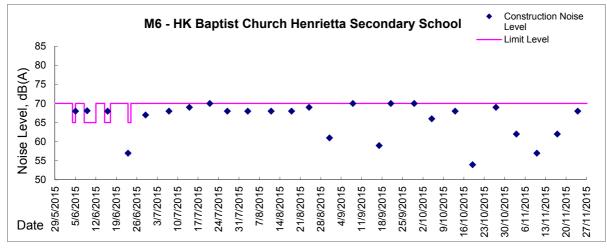




Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)





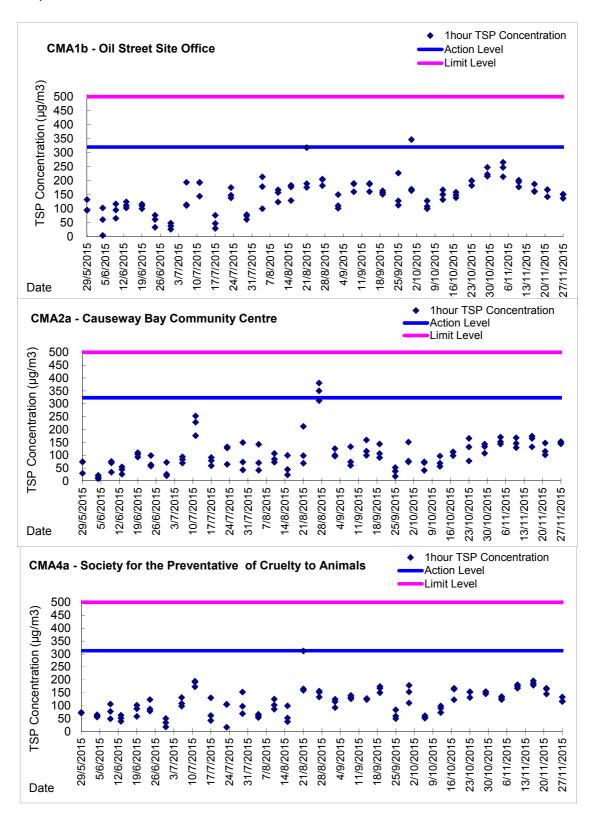




Appendix 4.2 Air Quality Monitoring Graphical Presentations

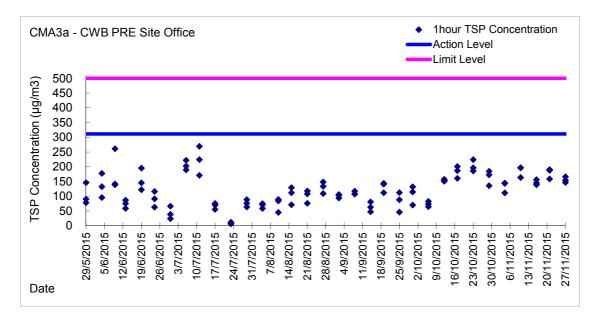


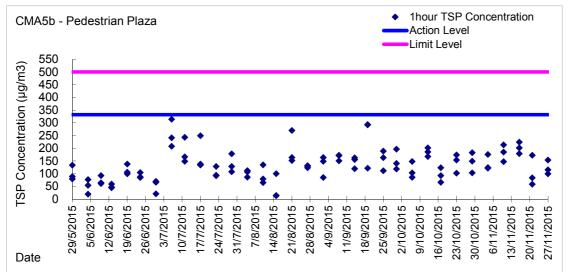
**Graphic Presentation of 1 hour TSP Result** 

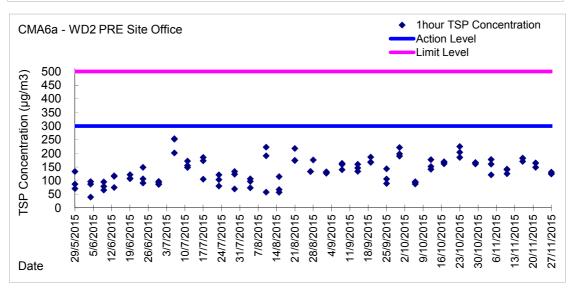




**Graphic Presentation of 1 hour TSP Result** 

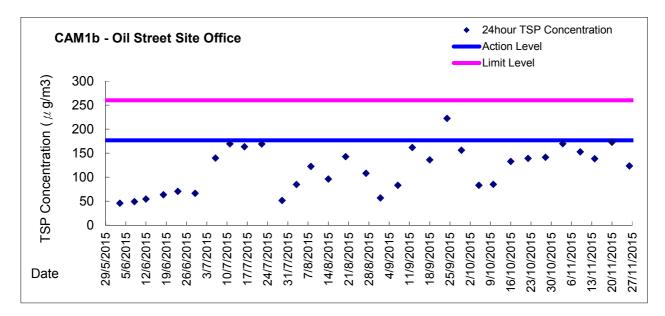


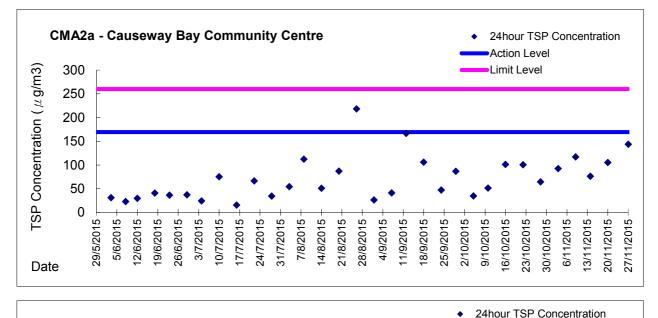


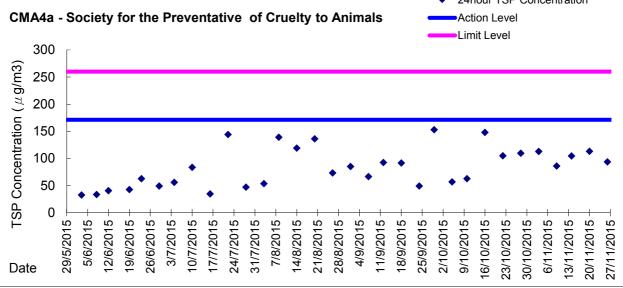




**Graphic Presentation of 24 hour TSP Result** 

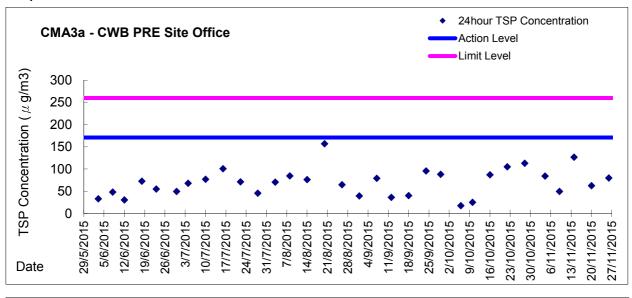


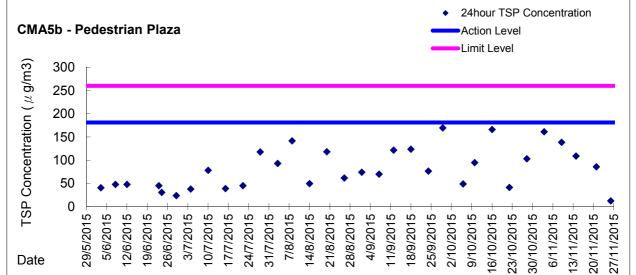


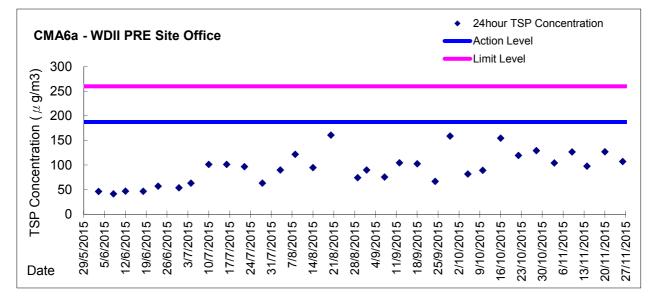




**Graphic Presentation of 24 hour TSP Result** 









	Field Data Record Sheet							
Monitoring	1 September 2015	Weather Condition:	Cloudy	Tidal	Ebb			
Date:				Condition:				
Temperature:	29.4°C – 32.5°C	Relative Humidity:	73.2% - 78.8%					

Location	Time	Temperature (℃)	Relative Humidity (%)	Odour Intensity	Odour Nature	Possible Odour Sources	Duration	Wind Speed(m/s)	Wind Direction	Remarks
OP7	13:26	30.6	77.2	0	/	/	/	0.4	NW	
OP6	13:31	31.0	76.1	0-1	Sea Water	Sea	Intermittent	0.8	SSW	
OP5	13:37	30.2	78.8	0-1	Culvert discharge	Sea	Intermittent	3.6	ESE	
OP4	13:42	29.6	78.8	1	Culvert discharge	Sea	Intermittent	32	ENE	
OP3	13:49	29.4	78.7	0-1	Culvert discharge	Sea	Intermittent	1.5	ESE	
OP2	13:57	32.5	73.2	0-1	Culvert discharge	Sea	Persistent	1.0	NNE	
OP1	14:00	30.9	73.9	1	Culvert discharge	Sea	Persistent	1.2	ENE	

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



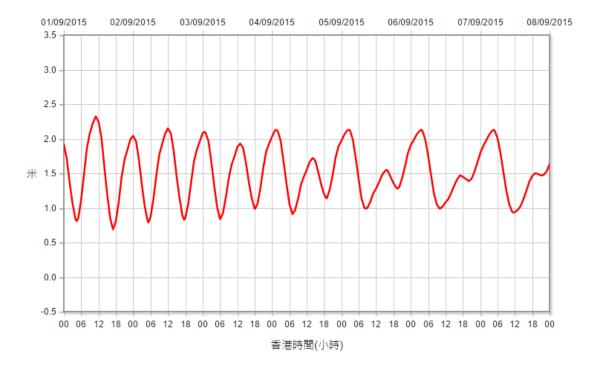
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Contract No. HK/2011/07 Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2) Proposal on Impact Monitoring for Odour Patrol along the shorelines of CBTS and ex-PCWA

#### Meteorological Conditions on 1 September 2015

- Hong Kong Observatory Weather Station at Hong Kong Observatory
   Air Temperature: 28.9 25.7 ℃
   Relative humidity: 83 96%
- Hong Kong Observatory Weather Station at Hong Kong Park Air Temperature: 24.7 – 28.9 ℃
- The tidal data at Quarry Bay Station

Tide Time	Tide Height (m)
04:27	0.8
11:07	2.3
17:02	0.7
23:52	2.0





		Field Data Recor	d Sheet			
Monitoring	15 September 2015	Weather Condition:	Fine	Tidal	Ebb	
Date:				Condition:		
Temperature:	<u>31.5°C – 34.5°C</u>	Relative Humidity:	<u>54.4% - 62.3%</u>			

Location	Time	Temperature (℃)	Relative Humidity (%)	Odour Intensity	Odour Nature	Possible Odour Sources	Duration	Wind Speed(m/s)	Wind Direction	Remarks
OP7	13:15	31.7	59.4	0	/	/	/	0.5	NNE	
OP6	13:20	31.5	62.3	0	/	/	/	2.1	N	
OP5	13:25	34.0	54.8	0	/	/	/	2.0	WSW	
OP4	13:30	31.6	57.9	0-1	Culvert Discharge	Culvert	Intermittent	1.3	NNW	
OP3	13:35	32.0	59.0	0-1	Culvert Discharge	Sea	Intermittent	2.4	NEE	
OP2	13:40	33.4	55.5	1	Seawater	Sea	Persistent	0.6	NE	
OP1	13:45	34.5	54.4	0-1	Seawater	Sea	Persistent	1.7	NE	

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

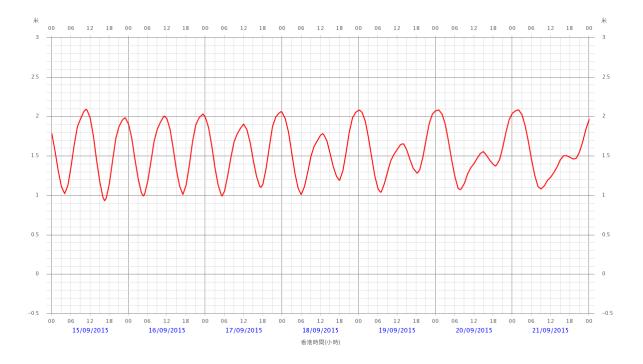


Contract No. HK/2011/07 Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2) Proposal on Impact Monitoring for Odour Patrol along the shorelines of CBTS and ex-PCWA

#### Meteorological Conditions on 15 September 2015

- Hong Kong Observatory Weather Station at Hong Kong Observatory
   Air Temperature: 26.5 31.9 ℃
   Relative humidity: 58 81%
- Hong Kong Observatory Weather Station at Hong Kong Park Air Temperature: 26.5 – 31.1 ℃
- The tidal data at Quarry Bay Station

Tide Time	Tide Height (m)
03:59	1.0
10:39	2.1
16:31	0.9
22:45	2.0





		Field Data Recor	<u>d Sheet</u>			
Monitoring	29 September 2015	Weather Condition:	Fine	Tidal	Ebb	
Date:				Condition:		
Temperature:	<u>30.9°C – 34.8°C</u>	Relative Humidity:	<u>41.3% - 54.2%</u>			

Location	Time	Temperature (℃)	Relative Humidity (%)	Odour Intensity	Odour Nature	Possible Odour Sources	Duration	Wind Speed(m/s)	Wind Direction	Remarks
OP7	13:26	30.9	54.2	0	/	/	/	3.0	NW	
OP6	13:33	33.7	48.4	1	Fuel Gas	Fisherman Ship/Car	Intermittent	1.7	WNW	
OP5	13:40	32.8	50.4	1	Wastewater	Wastewater Effluent	Intermittent	5.3	WNW	
OP4	13:46	34.8	41.3	0-1	Fuel Gas	Vehicle	Intermittent	2.1	NNE	
OP3	13:53	34.1	45.4	0	/	/	/	1.3	SE	
OP2	14:00	33.7	44.1	0-1	Seawater	Sea	Intermittent	1.8	W	
OP1	14:03	34.7	44.4	0-1	Wastewater	Wastewater Effluent	Intermittent	2.0	NW	

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

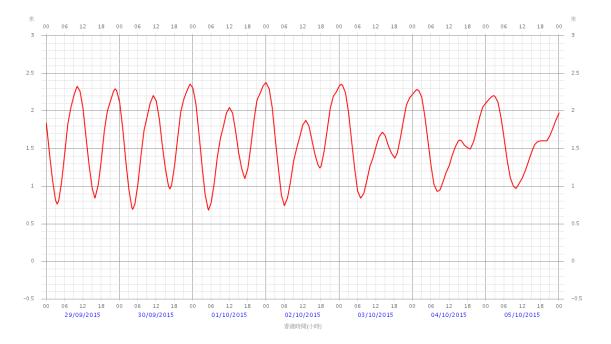


Contract No. HK/2011/07 Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 2) Proposal on Impact Monitoring for Odour Patrol along the shorelines of CBTS and ex-PCWA

#### Meteorological Conditions on 29 September 2015

- Hong Kong Observatory Weather Station at Hong Kong Observatory
   Air Temperature: 27.4 31.3 °C
   Relative humidity: 50 70%
- Hong Kong Observatory Weather Station at Hong Kong Park Air Temperature: 26.9 – 32.2 ℃
- The tidal data at Quarry Bay Station

Tide Time	Tide Height (m)
03:31	0.8
10:09	2.3
15:53	0.8
22:30	2.3

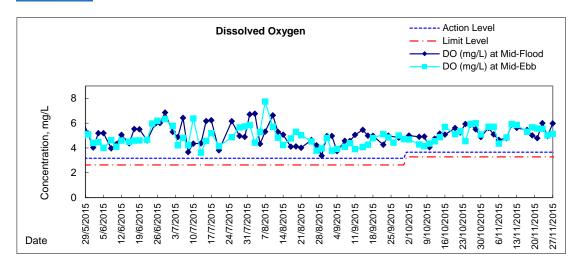


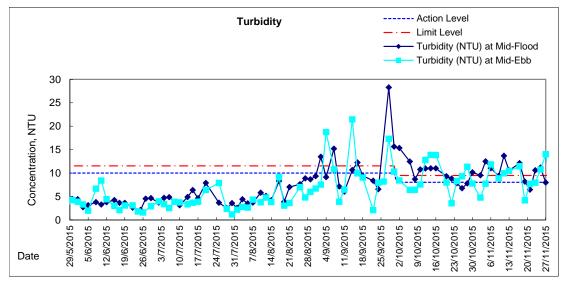


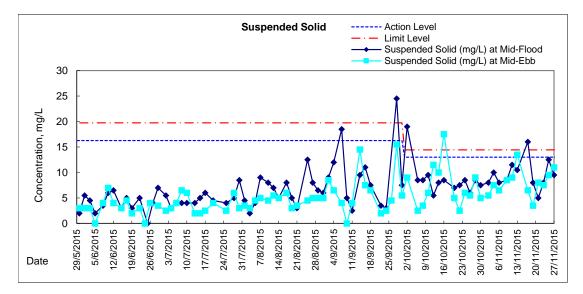
Appendix 4.3

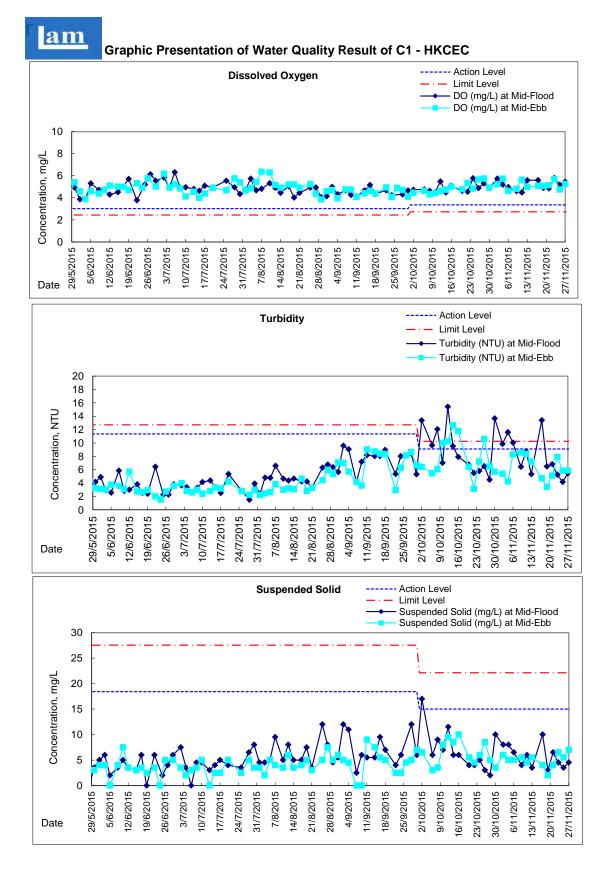
Water Quality Monitoring Graphical Presentations

Graphic Presentation of Water Quality Result of WSD19 - Sheung Wan

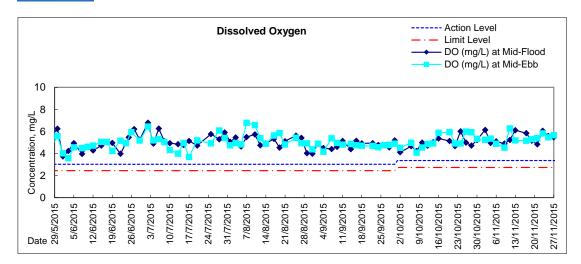


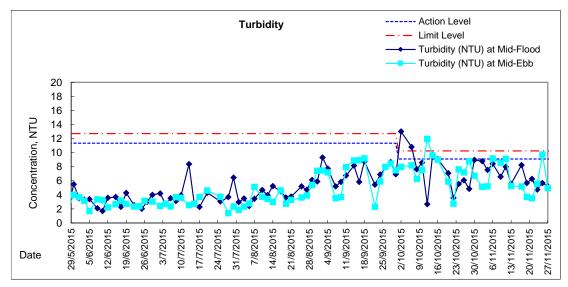


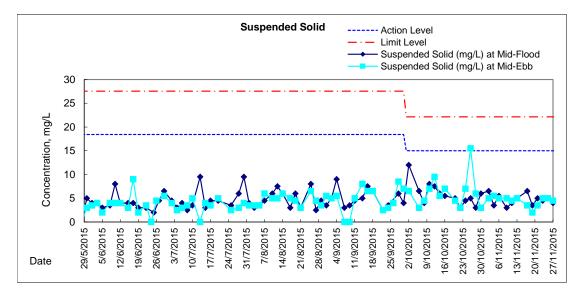




Graphic Presentation of Water Quality Result of P1 - HKCEC Phase I

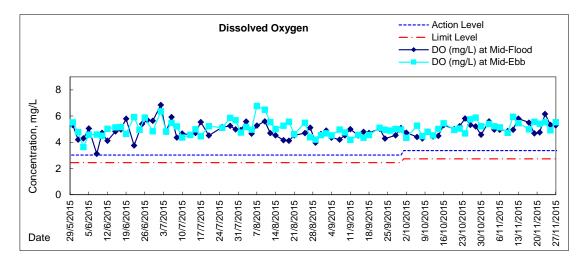


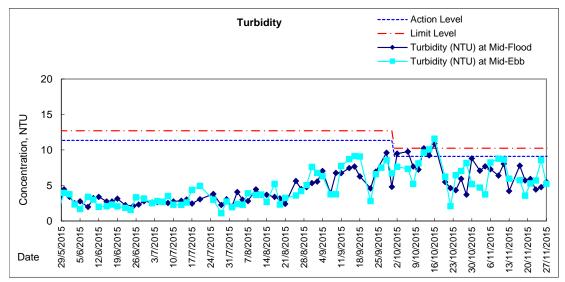


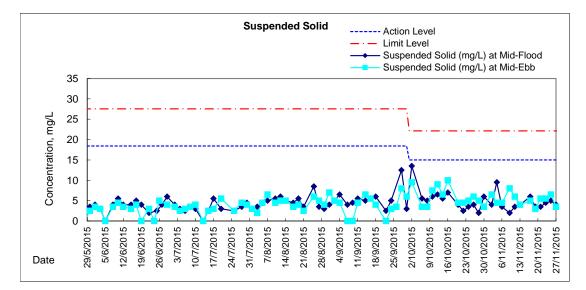




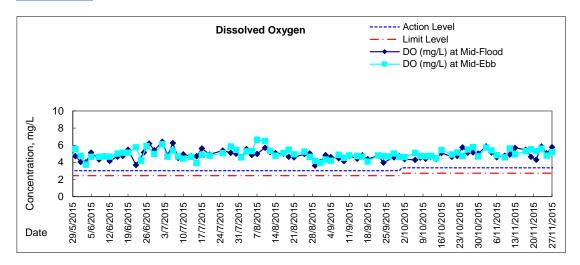
Graphic Presentation of Water Quality Result of P3 - APA

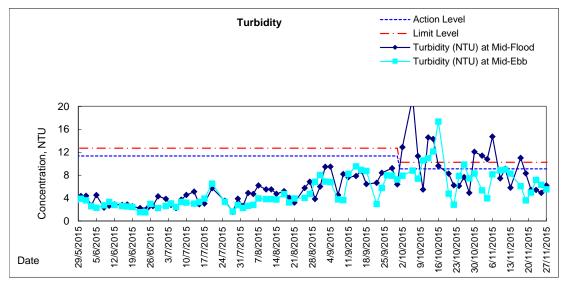


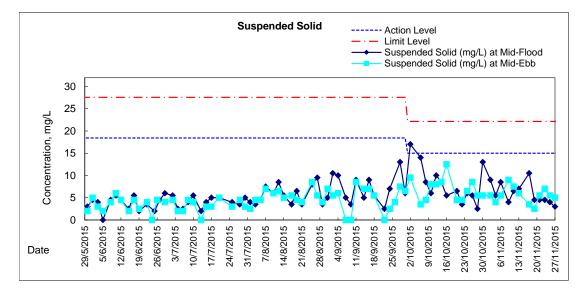




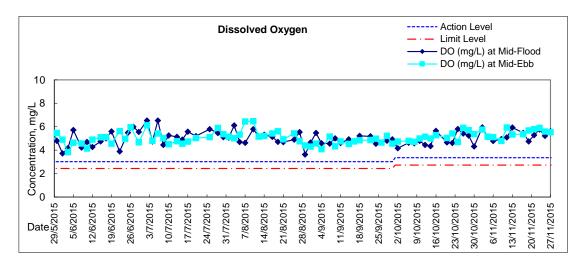
Graphic Presentation of Water Quality Result of P5 - WCT / RT / IT

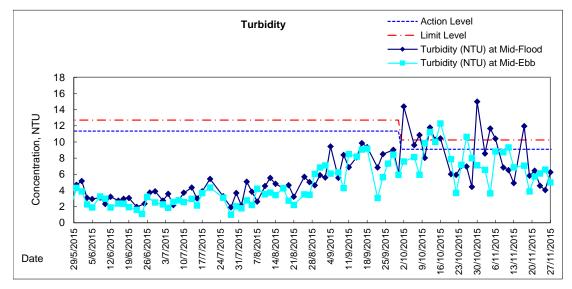


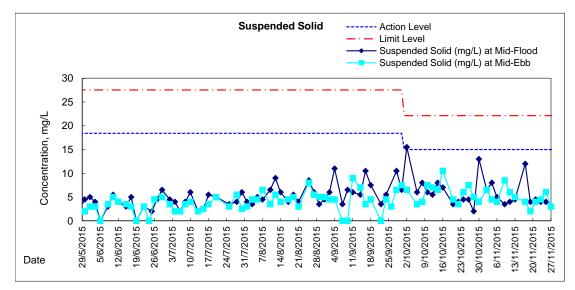




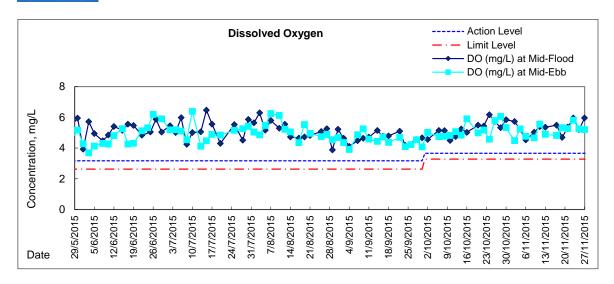
**Graphic Presentation of Water Quality Result of P4 - SOC** 

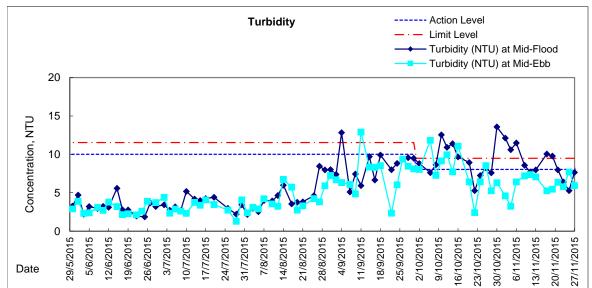


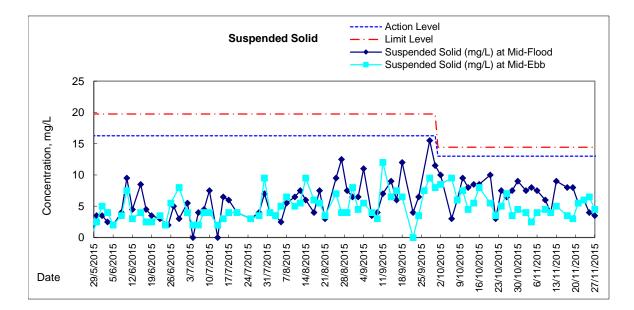




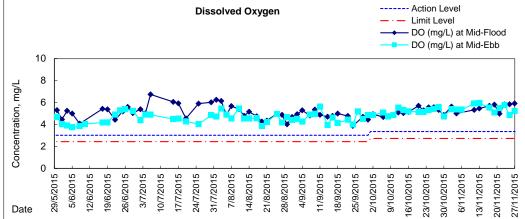
Graphic Presentation of Water Quality Result of RW21-P789 - GEC/CRC/SHK

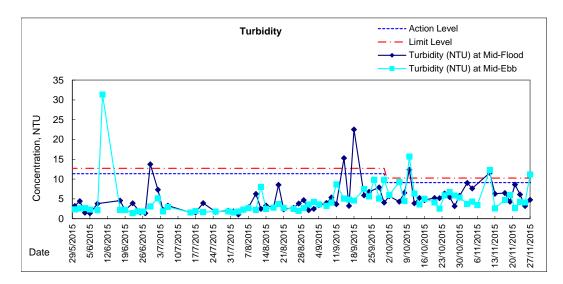


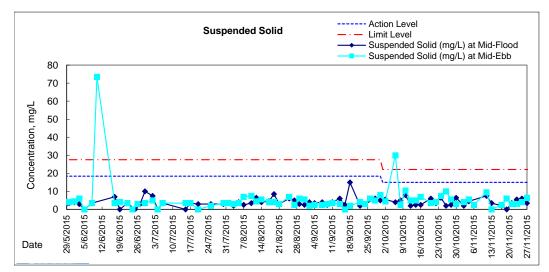




Graphic Presentation of Water Quality Result of C7 - Windsor House

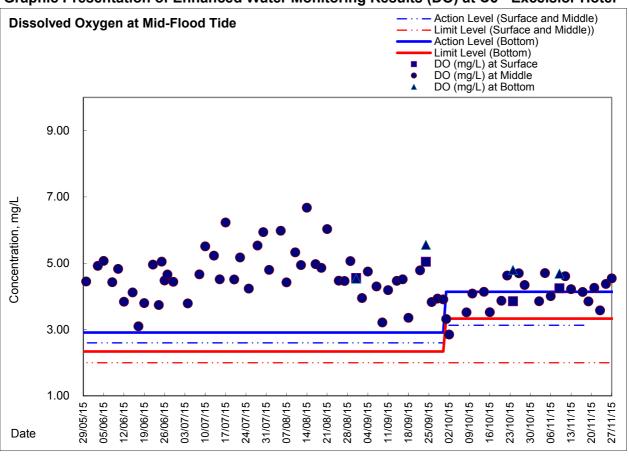




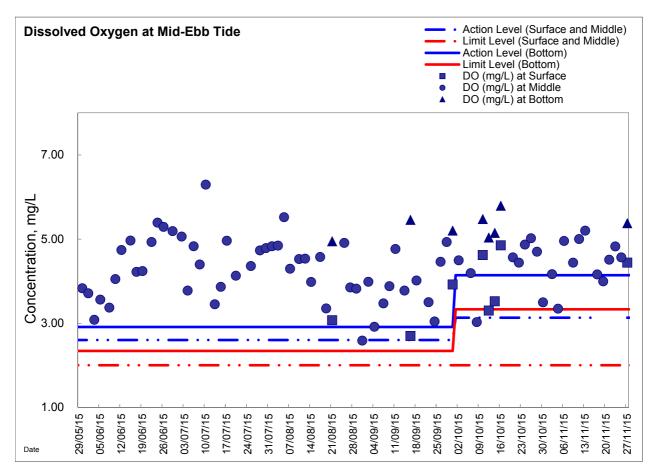






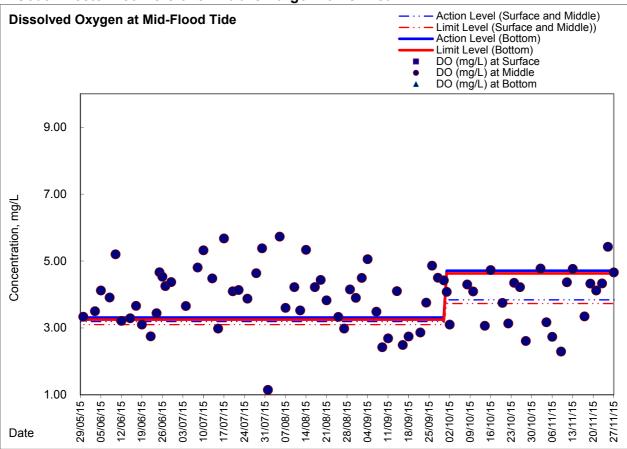


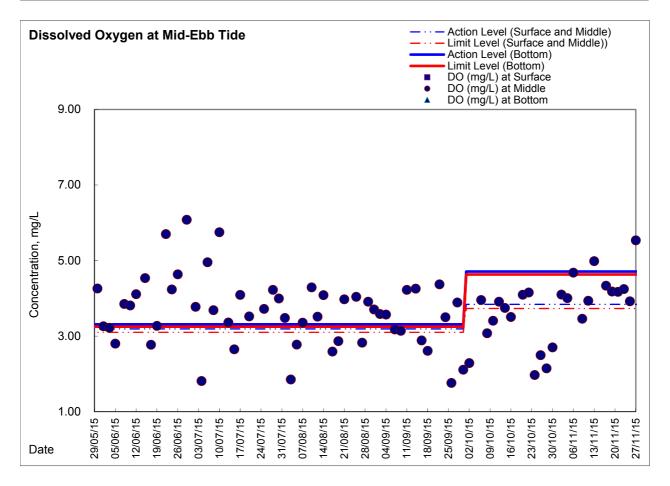
# Graphic Presentation of Enhanced Water Monitoring Results (DO) at C6 - Excelsior Hotel





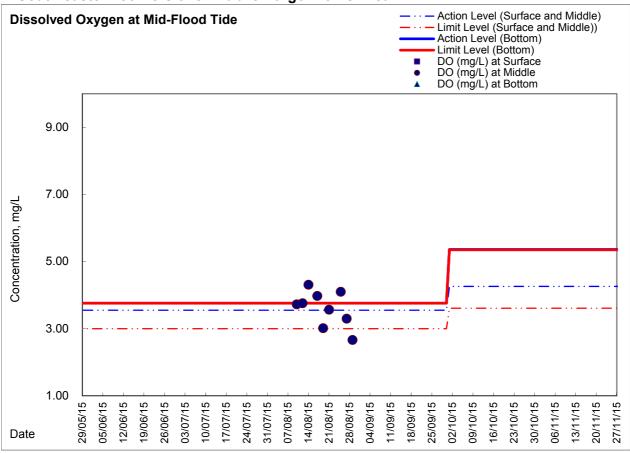
# Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SW - South-western corners of ex-Public Cargo Works Area

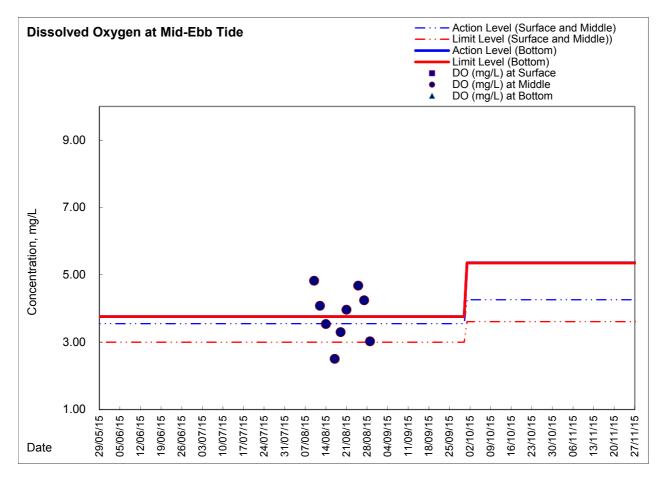






# Graphic Presentation of Enhanced Water Monitoring Results (DO) at Ex-WPCWA SE - South-eastern corners of ex-Public Cargo Works Area





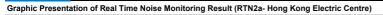


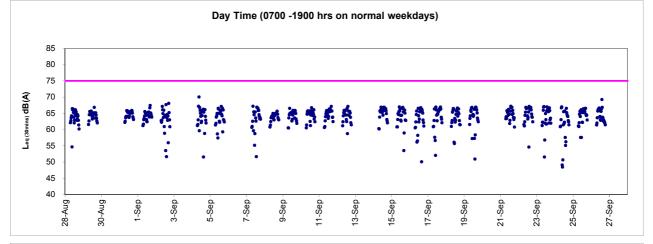
Appendix 4.4

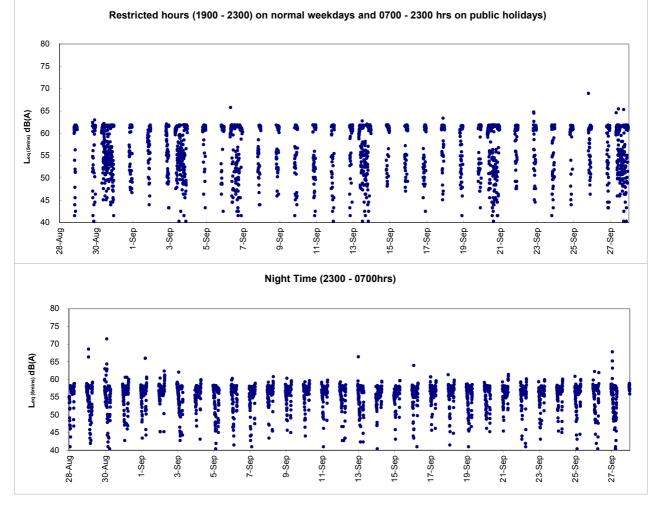
Real-time Noise Monitoring Results and Graphical Presentations



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



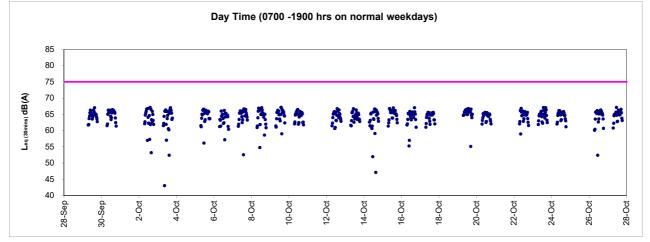


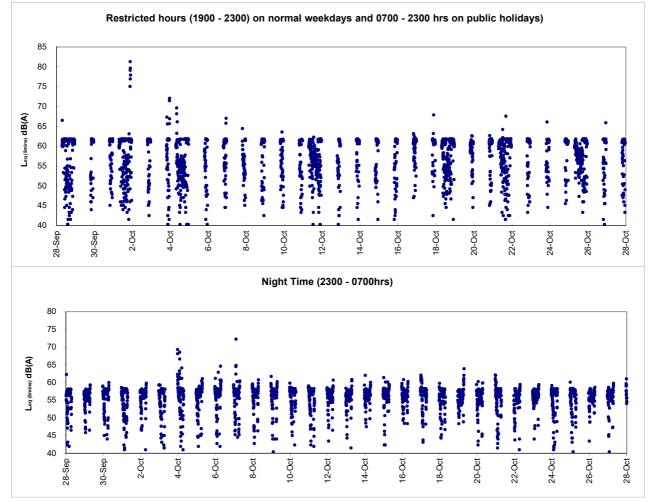




Contract no. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 2)

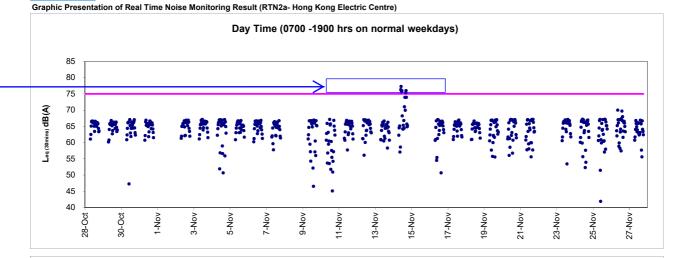
Graphic Presentation of Real Time Noise Monitoring Result (RTN2a- Hong Kong Electric Centre)



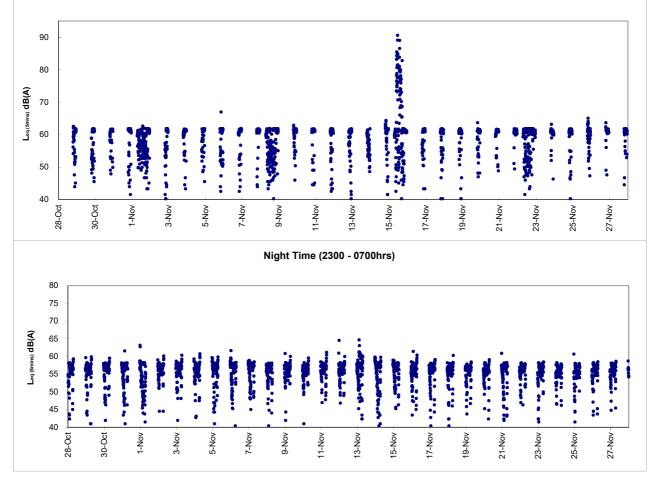




Contract no. HK/2011/07 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 2)



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



After checking with Contractor of HY/2009/19, on 14 November 2015, pre-bored piling works was undertaken by Contract HY/2009/19 while mitigation measures including erection of temporary noise barrier was in place. In addition, cooling pipe removal works with saw cutting for Hong Kong Electric Centre was conducted at the roof top by non-CWB Contractor at the roof top location of the Hong Kong Electric Centre immediately next to the noise monitoring station. In view of the mitigation measures implemented and the non-CWB works conducted next to the monitoring station, the exceedances were considered as non-Project related.



Appendix 5.1

**Event Action Plans** 



### **Event/Action Plan for Construction Noise**

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



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



#### Event / Action Plan for Construction Air Quality

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



## **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	come	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).	1)	A valid Construction Noise Permit no. GW-RS0119-10 was granted from EPD since 18 <sup>th</sup> 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	breakwater of the regarding loud noises eman Causeway Bay from dredging activities Typhoon Shelter 21/3/2010 (Sunday) until 2 hours and between 1920-1	regarding loud noises emanated from dredging activities on 21/3/2010 (Sunday) until 2220 hours and between 1920-1946 hours in the evening of 22 March		A valid Construction Noise Permit no. GW-RS0119-10 was granted from EPD since 18 <sup>th</sup> 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.	
					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- 233384048)	Watson Road	Complaint on the noise nuisance due to the large scale of dredging machine (face to Island East Corridor) in particular the hours 1900 to 0800 and request to reduce the noise level.	,	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. 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. No further complaints were received in the reporting month. The complaint is considered closed.	Closed
100731	31/7/2010	Mr. Lee received by ICC (CC Case: 1-250702681)		Complaint on the noise nuisance due to the dredging works. Three construction plants were operated concurrently.	1) 2) 3) 4)	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works. There was only 1 grab dredger operated by Contractor within NPR project site area for dredging works. 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. It is considered as invalid from the EP and CNP point of view.	Closed
100812	12/8/2010	Mr. Wong, Harbour Heights (Management) Ltd.	Harbour Heights	Management office received their resident complained on the noise nuisance from the dredging works at the marine works area adjacent to the Harbour Height during the period from 0700 to 2200.	1) 2) 3)	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. No noise exceedance was recorded at noise monitoring station at Victoria Centre on 10 and 17 August 2010 during daytime and evening time period. It is considered as invalid complaint. No further complaints were received in the reporting month. The complaint is considered closed.	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
				station et no wob 15)	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.	
101203	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	1)	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	1)	ET confirmed the following information with resident site staff on the complaint:	Closed
		Block 10, City		2010 in which the noise from		• It was referred to the filling operation at North Point	



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.	<ul> <li>Reclamation of Central Wan Chai Bypass site area instead of part of Wanchai Development Phase II;</li> <li>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;</li> <li>Flood light on the control mast of derrick barge have no lighting shields for the prevention of glare of flood lights;</li> <li>No starting work on 7 Dec 2010 at 0630hours.</li> <li>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;</li> <li>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;</li> <li>The absence of the lighting shields at flood light results in visual glare to the complainant at night-time.</li> <li>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;</li> <li>No further complaint was received after implementation of proposed measures</li> </ul>	
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.	<ol> <li>The concerned stockpile was a working stockpile under Contract HY/209/15 and was covered at night time after work.</li> <li>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.</li> <li>It is considered invalid but preventive actions can be taken because the stockpile is relatively large and easily visible by complainant.</li> <li>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</li> <li>The concern of mosquitoes breeding is out the scope of EM&amp;A, the follow-up action is not reported in this monthly EM&amp;A report.</li> </ol>	Closed



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	tcome	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.	1) 2) 3)	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	Victoria Centre Management Office	Victoria Centre Management	North Point	An odour nuisance suspected generating from the discharge point – Channel T at Watson Road in part of the site area was	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.	Closed	
				related to CWB under Contract 2	2)	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 observed in the inspection.		
			3)	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.				
						4)	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.		



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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) 3)	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.	Closed
			4)	Referring to the record provided by Cayley Property 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	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	



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						so as to prevent recurrent by barge defect	
110723a	Victoria Centre by ICC no. 1- 303887687 Department published a notii in their Management Offic about construction works will I conducted from 0700 hours 2300 hours during July December 2011 includie	Victoria Centre by ICC no. 1-	Victoria Centre by ICC no. 1- 303887687 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	in their Management Office about construction works will be conducted from 0700 hours to 2300 hours during July to	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	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	conducted at Causeway Bay Typhoon Shelter at 7am on 23 July 2011. She complained that the works shall be started later	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 minimize the noise nuisance 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	1) 2) 3)	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



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				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	1)	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.	
	08/08/2011			3)	As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am.		
			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	



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						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	Wan Chai	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)	<ul> <li>It was referred by AECOM to ET on 29 August 2011. Confirmed with the Resident Site Staff that the</li> <li>construction works were referred to the Contractors HY/2009/11 and HY/2009/19.</li> <li>The pump is located on the site area of HY/2009/19</li> <li>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</li> </ul>	Closed
						<ul> <li>excluse the outfall.</li> <li>An ad hoc inspection of the effectiveness of garbage defender was conducted with RSS (CWB project</li> </ul>	



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						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.	
						<ul> <li>Daily cleaning near the water intake was conducted twice a day by contractor HY/2009/19.</li> </ul>	
						<ul> <li>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</li> </ul>	
					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



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					<ul> <li>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.</li> <li>3) After receiving the complaint, the excavator was then removal off-site for checking and maintenance works on 17 October 2011.</li> <li>4) Contractor was reminded to enhance regular checking and maintenance to all plants at site.</li> <li>5) 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.</li> </ul>	
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.	<ol> <li>ET confirmed with the Resident Site Staff that         <ul> <li>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.</li> <li>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.</li> </ul> </li> <li>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.</li> </ol>	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	<ol> <li>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</li> </ol>	Keep in view for three months from the date of complaint recevied



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					<ul> <li>CNP was checked by the police officer.</li> <li>2) ET confirmed with the Resident Site Staff that same was also raised out by RSS at about 7:00a.m of same day. Besides, it was confirmed that there is no Construction Noise Permit for the conducted construction works in the period between 2300 and 0700.</li> </ul>	the valid
					3) Due to insufficient communication between Contractor HK/2009/01 and their Korean Sub-contractor, Korear Sub-contractor had not notified to Contractor before carrying out the inspection of the BC cutter, hoists an bentonite pipes at about 6:00a.m to ensure no damag and all the pipe joints should be tightened and in goo position.	i es
					4) Contractor was advised to enhance the communicatine 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. complaint will be kept in view of any follow-up action 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.	<ol> <li>RSS notified ET on 5 April 2012.</li> <li>ET confirmed with the Resident Site Staff that no works were performed during the concerned period.</li> </ol>	2 via were deep



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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.	<ol> <li>RSS notified ET on 8 March 2013</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> </ol>	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.



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		-			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.		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	Final report (Issue1) issued on 31 July 2014. Further to complainant follow-up, Final report (Issue2) Issued on 12 Aug 2014.
					4)	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. and condition 3.d. in no. GW-RS0592-14."	



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					<ul> <li>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.</li> <li>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</li> </ul>	
					PME during the course of work which affect the duration of works.	
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.	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.	Interim investigation report submitted to EPD on 23 October 2014.
					ET confirmed with the Resident Site Staff that 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.	Updated interim investigatio n with supplement ary information submitted to EPD on 17
					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.	November 2014



and Received By	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.	
				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 implemented by the Contractor or 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 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 lory was in operation. In view of the above findings, no direct information associated



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141110	07/11/2014	EPD Ref.: H05/RS/000278 15-14	Construction site at old Wan Chai Ferry Pier	exhaust from the construction v site at old Wan Chai Ferry Pier was scented that affecting the	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). The complainant reported that Malodour of construction plant	Interim investigation report submitted to
		EPD complaint received by ET on 10 November		swimmers at Wan Chai Swimming Pool.	exhaust from the construction site at old Wan Chai Ferry Pier was scented that affecting the swimmers at Wan Chai Swimming Pool.	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.	



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					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. 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



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					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



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		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 around the concerned location while 1 no. of derrick 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 around the concerned location while 1 no. of derrick 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	



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					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.



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					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.	
150904	01 Sept 2015	EPD Ref.: H05/RS/0002 2241-15 dated 04 September 2015 received by ET on 4 September 2015	East of New WanChai Ferry Pier	Dropping of excavated material from land to sea during laoding of material	A public complaint regarding dropping of excavated material from land to sea referred by EPD was received by ET on 04 September 2015 (EPD Ref.: H05/RS/00022241-15 dated 04 September 2015). The complainant reported that dropping of excavated materials from land to sea during loading of materials by excavator at the construction site to work boat. (Contract HK/2009/02) ET confirmed with the Resident Site Staff that transferring of C&D materials from land to hopper barge by excavator at seaside along CWB Tunnel Portions 3 and 4 was undertaken by Contract HK/2009/02 on 01 September 2015. Mitigation measure including providing tarpaulin sheet to cover the gap between seawall and the hopper barge to prevent dropping of material to the sea was implemented by the Contractor. According to the relevant site records under Contract HK/2009/02, transferring of C&D materials from land to hopper barge by excavator at seaside along CWB Tunnel Portions 3 and 4 was carried out on 01 September 2015 and mitigation measures including provision of tarpaulin sheet between seawall and the hopper barge was implemented by the Contractor of HK/2009/02 on the concerned date. Follow-up inspection was conducted during weekly environmental inspection on 10 September 2015. Transferring of C&D materials from land to barge by excavator was observed at the concerned location and mitigation measures including provision of tarpaulin sheet between seawall and the hopper barge was implemented by the Contractor of HK/2009/02 on the concerned date. Follow-up inspection	Interim report submitted to EPD on 14 September 2015. EPD advised no comment on 5 October 2015 on the interim report submitted and case closed



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					barge and the material transfer works was generally in order. Nevertheless, the Contractor of HK/2009/02 was reminded to maintain the handling procedure for C&D materials transfer from land to hopper barge and regularly inspect the condition of the tarpaulin sheet provided to ensure the nearby water quality are not affected by the loading and unloading of material from land side to hopper barge. The Contractor was reminded to maintain the handling procedure for C&D materials transfer from land to hopper barge and regularly inspect the condition of the tarpaulin sheet provided to ensure the nearby water quality are not affected by the loading and unloading of material from land side to hopper barge.	
150904	02 Sept 2015	EPD Ref.: H04/RS/0002 2385-15 dated 04 September 2015 received by ET on 04 September 2015	Location outside Fleet Arcade	Construction noise was generated from the construction site of HK/2012/08 at location outside Fleet Arcade during night time on weekdays and daytime during General Holidays. The complainant also concerned construction dust and exhaust emission from derrick barges during transporting C&D material at the site.	A public complaint regarding construction noise and dust and exhaust emission referred by EPD was received by ET on 04 September 2015 (EPD Ref.: H04/RS/00022385-15 dated 04 September 2015). The complainant reported that construction noise was generated from the construction site of HK/2012/08 at location outside Fleet Arcade during night time on weekdays and daytime during General Holidays. The complainant also concerned construction dust and exhaust emission from derrick barges during transporting C&D material at the site. (Contract HK/2012/08) ET confirmed with the Resident Site Staff that from 0800 hrs to 1800 hrs on 30 August 2015, removal of scaffold and timber and installation of bulkhead was undertaken by the Contractor of HK/2012/08 at the concerned location. Total one generator and one circular saw were in operation. From 1900hrs on 30 August 2015 to 0700 on 31 August 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location.	Interim report submitted to EPD on 14 September 2015.



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LOG NO.	Complaint		Complainant		<ul> <li>From 1900hrs on 31 August 2015 to 0700hrs on 01</li> <li>September 2015, no construction works was undertaken by the Contractor of HK/2012/08</li> <li>at the concerned location.</li> <li>From 1900hrs to 2115 hrs on 01 September 2015, unloading of soil was undertaken by the Contractor of HK/2012/08 at the concerned location.</li> <li>Total one derrick barge was in operation.</li> <li>From 2300hrs on 01 September 2015 to 0700hrs on 02</li> <li>September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location.</li> <li>One derrick barge was deployed for unloading of soil on 02 September 2015 during daytime under Contract HK/2012/08 at the concerned location.</li> <li>One derrick barge was deployed for unloading of soil on 02 September 2015 during daytime under Contract HK/2012/08 at the concerned location.</li> <li>Based on the relevant site records, from 0800 hrs to 1800 hrs on 30 August 2015, removal of scaffold and timber and installation of bulkhead was undertaken by the Contractor of HK/2012/08 at the concerned location.</li> <li>Total one generator and one circular saw were in operation and the relevant Construction Noise Permit GW-RS0296-15 for the concerned operation was confirmed in place.</li> <li>From 1900hrs on 30 August 2015 to 0700 on 31 August 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location and from 1900hrs on 31 August 2015 to 0700hrs on 01</li> <li>September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location and from 1900hrs to 2115 hrs on 01 September 2015, unloading of soil was undertaken by the Contractor of HK/2012/08 at the concerned location.</li> <li>From 1900hrs to 2115 hrs on 01 September 2015, unloading of soil was undertaken by the Contractor of HK/2012/08 at the concerned location.</li> <li>From 1900hrs to 2115 hrs on 01 September 2015, unloading of soil was undertaken by the Contractor of HK/2012/08 at the concerned location.</li></ul>	



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					From 2300hrs on 01 September 2015 to 0700hrs on 02 September 2015, no construction works was undertaken by the Contractor of HK/2012/08 at the concerned location. In view of the above, the construction activities conducted under Contract HK/2012/08 during the concerned period was in compliance with the statutory requirement.	
					In addition, one derrick barge was deployed for unloading of soil on 02 September 2015 during daytime under Contract HK/2012/08 at the concerned location. Follow-up inspection was conducted during weekly environmental inspection on 08 September 2015 and no dark smoke emission was observed from the derrick barge moored outside the concerned location. Nevertheless, the Contractor of HK/2012/08 was reminded to conduct regular checking on the condition of the all derrick barges deployed on site to ensure only well maintained equipment are used to avoid potential dark smoke emission affecting nearby public and the Contractor of HK/2012/08 was reminded to upkeep the site control system for construction works carrying out at restricted hours and night time for Construction Noise Permit compliance.	
					The Contractor was reminded to conduct regular checking on the condition of derrick barges deployed on site to ensure only well maintained equipments are used on site to avoid potential dark smoke emission affecting nearby public.	
					The Contractor of HK/2012/08 was reminded to upkeep the site control system for construction works carrying out at restricted hours and night time for Construction Noise Permit compliance.	
150917	17 Sep 2015	A public complaint regarding water quality referred by EPD was	Central and Wan Chai Reclamation coastline (between LUNG WUI ROAD to LUNG WO ROAD,	Silt from Central and Wan Chai Reclamation was spotted along the coastline (between LUNG WUI ROAD to LUNG WO ROAD, Central & Wan	Based on the site records confirmed by RSS, removal of seawall blocks by derrick barge was undertaken by Contract HK/2012/08 at Central Reclamation Phase III works area while mitigation measures including provision of silt curtain implemented by the Contractor of HK/2012/08 during the	Interim investigation report submitted to EPD on 25



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		received by ET on 17 September 2015	Central & Wan Chai, Hong Kong)	Chai, Hong Kong)	seawall block removal works. According to relevant record, muddy dispersion at HKCEC2W (area opposite to Lung King Street) was observed by the Environmental Team on 14 September 2015 afternoon. The muddy patch was observed dispersing outside the outer layer silt curtain deployed by the Contractor of HK/2012/08 towards the Central Reclamation Phase III area while the outer layer silt curtain was observed partially opened.	September 2015
					In view of the above observations, the Contractor was advised to rectify any environmental deficiencies such that adequate protection such as silt curtain shall be provided for exposed soil slope to mitigate for potential runoff related water quality impact to the surrounding waters; outer layer silt curtain deployed shall be entirely closed during works to safeguard the surrounding water quality. Any opening for marine vessel shall be closed promptly after passage and localized silt curtain deployed on site shall be properly maintained to avoid any gap or opening to effectively safeguard the nearby waters.	
151015	11 Oct 2015	A public complaint regarding direct discharge of muddy effluent referred by RSS was received by ET on 14 October 2015	Seafront opposite to Watson Road adjacent to Eastern Breakwater	Pink fluid was observed discharged into marine waters at seafront opposite to Watson Road adjacent to the Eastern Breakwater on 11 October 2015.	Based on the site records confirmed by RSS, no construction activity near the seaside between Eastern Breakwater and the Dumping Jetty was undertaken by Contract HY/2009/19 while at site area away from the seawall, construction of EVB substructure, EVB and APS structure was undertaken on 11 October 2015. In addition, no works involving the use of paint was carried out at the concerned site area (Site Portion between Eastern Breakwater and the Dumping Jetty) and along the alignment of the Culvert T1 under Contract HY/2009/19 and no temporary storage of paint was located at the concerned site area and along the alignment of the Culvert T1 under HY/2009/19 on 11 October 2015.	HyD will consolidate all input from relevant parties to form a reply to ICC.
					Follow-up inspection was conducted during weekly environmental inspection on 14 October 2015. No construction works involving the use of paint was observed undertaken at the concerned location while a few number of small containers of paint was observed placed around the concerned location and the paint containers were sealed and no sign of leakage was observed. The few containers were further checked and was found not matching the pink fluid observed on the complaint date. On the other hand, a culvert discharge outfall was found located within the concerned area where the pink fluid was observed. Based on the above, no direct information indicating the pink	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					fluid was originated from the worksarea under HY/2009/19 was considered available. Nevertheless, the Contractor was reminded that paints stored on site shall be properly labelled and stored in sealed container at weather proof location to avoid potential spillage.	
151028	26 Oct 2015	A public complaint regarding construction noise impact referred by EPD was received by ET on 28 October 2015 (EPD Ref:H05/RS/00 027330-15 Dated 28 October 2015)	Construction Site next to ex-Wan Chai Ferry Pier	Operation of grab dredger at construction site near the ex- Wan Chai Ferry Pier from around 0100 to 0400 hours on 26 October 2015 caused noise nuisance.	According to the relevant site records under Contract HK/2009/02, from 01:00hrs to 04:00hrs on 26 October 2015, rock filling 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 and the relevant Construction Noise Permit GW-RS1121-15 for the concerned construction works was in place. The construction activity conducted under Contract HK/2009/02 during the concerned period was in compliance with the statutory requirement. Nevertheless, the Contractor was reminded to upkeep the site control system for construction works carrying out at restricted hours and night time for Construction Noise Permit compliance in view of the nearby public concern.	The interim report would be submitted to EPD on 05 November 2015
151116	13 November 2015	A public complaint regarding water quality referred by EPD was received by ET on 16 November 2015 (EPD Ref: H05/RS/000291 26-15)	Construction Site at HKCEC and seafront outside Lung Wo Road	Muddy water was discharged from the construction site at HKCEC and dispersed to seafront outside Lung Wo Road on 13 November 2015 afternoon. The complainant also alleged that the deployment of the silt curtain did not follow the design requirement under the environmental permit that the curtain should be hanged to seabed level	Based on the site records, rock mound trimming works was conducted under Contract HK/2012/08 at HKECE2 area on 13 November 2015 and mitigation measures including provision of localized silt curtain around the works area was implemented by the Contractor. Follow-up inspection was conducted during weekly environmental inspection on 17 November 2015, both outer layer silt curtain and localized layer of silt curtain around the active works area were observed deployed while the localized silt curtain deployed around the marine works area was observed partially opened for marine access. Despite no muddy dispersion was generated around the localized silt curtain enclosed area, the Contractor was advised to promptly improve the condition of the silt curtain to ensure the effectiveness of the mitigation measure deployed and to ensure the silt curtain is closed after marine vessel movement. Based on further review on the current construction stage at HKECE2, the dredging works and trench filling works were completed and filling works were conducted behind seawall or temporarily seawall in form of rockbund, the outer layer of silt curtain currently serves as the additional mitigation measure to	The interim investigation report would be submitted to EPD on 1 December 2015.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					the required silt curtain deployment for safeguarding the water quality in the area. To clarify for the current silt curtain arrangement, the Contractor was advised to submit an updated silt curtain deployment plan with respect to the latest silt curtain arrangement for the current construction stage. In addition, contaminated discharge at Culvert L originating from upstream locations was intermittently observed based on previous site records. Nevertheless, in view of the public concern, the Contractor was reminded to conduct regular checking on the condition and maintenance for the silt curtain deployed on site to ensure the effectiveness of the mitigation measure. A joint meeting for the complaint was held amongst the EPD, WDII RSS team, the ET and the Contractor of HK/2012/08 on 24 November 2015 and a joint silt curtain diver inspection check amongst EPD, ET, IEC, WDII RSS and the Contractor was conducted on 27 November 2015 to confirm the silt curtain condition and the silt curtain deployed at the HKCEC2 water chapped was feund generally in order.	
151117	Not specified	EPD complaint received by ET on 17 Novmeber 2015	Causeway Bay Typhoon Shelter	Improper handling or bentonite and marine sediment generated from construction works and contaminated discharge from water treatment plant into Victoria Habour	<ul> <li>channel was found generally in order.</li> <li>A public complaint regarding illegal disposal of construction waste referred by EPD was received by ET on 17 November 2015. The complainant reported that over 10,000 m3 of bentonite after usage for construction of diaphragm wall was disposed of at Victoria Habour. The Contractor recently deployed mobile crane to transfer the bentonite from mud pit on to works barge. The bentonite was then mixed with soil and transported to the Public Fill. During the course, seepage of slurry through grab generated drop off to marine waters and the soil mixing generated dust impact to nearby yacht club, typhoon shelter and affect nearby public and boats. Disposal of dredged marine sediment was not carried out in accordance with the Management of Dredged/Excavated Sediment. Instead the marine sediment was covered by sand and soil and transported to the Public Fill.</li> <li>White or greyish effluent was discharged directly into Victoria Habour marine waters from wastewater treatment plant on construction site.</li> <li>Interim investigation report was submitted to EPD on 24 November 2015. Due to further investigation undertaken,</li> </ul>	Interim investigation report submitted to EPD on 24 November 2015. Futher investigation report to be submitted in December 2015.

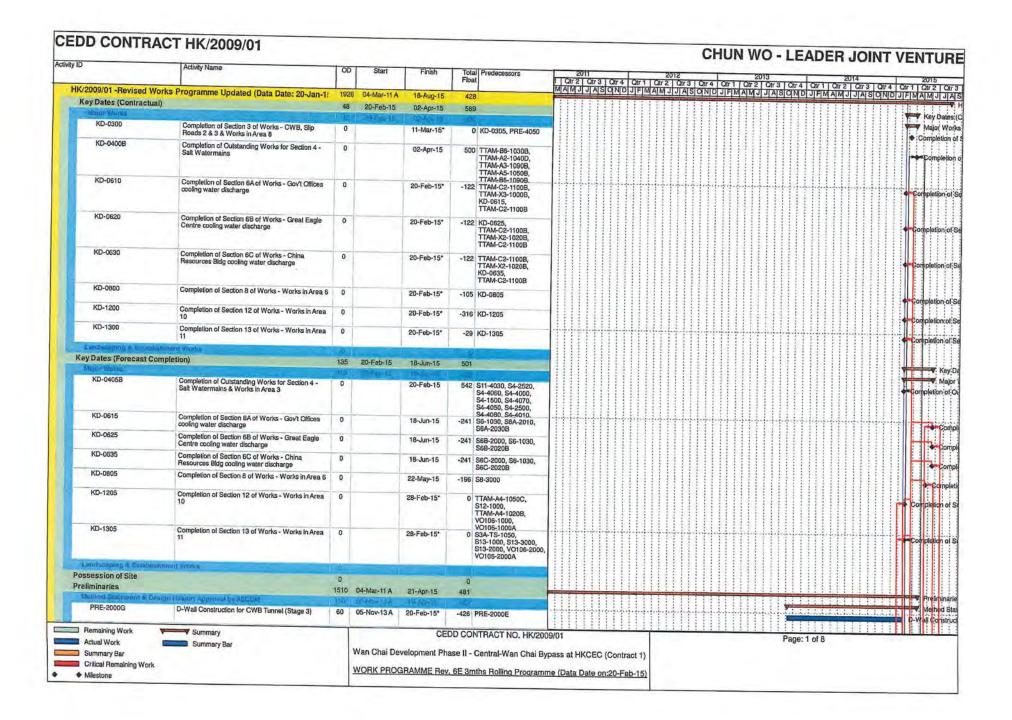


Complaint Log No.	Date of Complaint	Received From and Received By	 Nature of Complaint	Outcome	Status
				further information and investigation summary shall be further included in December reporting month.	



Appendix 7.1

**Construction Programme of Individual Contracts** 



## CEDD CONTRACT HK/2009/01

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|   | RE-3050D<br>RE-3310<br>RE-3320<br>Comment Connector F<br>PRE-3200C<br>PRE-3200C<br>PRE-3200C<br>PRE-3200C<br>PRE-3200C<br>PRE-3200C<br>PRE-3200C<br>PRE-3200C<br>RE-4020<br>RE-4020<br>RE-4030<br>Conton Company (CVE)<br>RE-4030<br>Conton Company (CVE)<br>Conton Company<br>COMPANY<br>Conton Company<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COMPANY<br>COM | RE-3050D       ELS for CWB Tunneling Works Stage 1B (GEO) for<br>Bottom Up         RE-3310       Stage 2 Tunnel Structure Design         RE-3320       Stage 3 Tunnel Structure Design         RE-3200       Salt Water Mains (S3)         PRE-3200D       Cooling Watermains (BF)         PRE-3200Q       Cooling Watermains (BG)         PRE-3200Q       Cooling Watermains (BG)         PRE-3200Q       Cooling Watermains (BG)         Instructure Design       Contractor's Detailed Design         RE-4020       Contractor's Detailed Design         RE-4020       Contractor's Detailed Design         RE-5100C       Approval of ICCP of Cross-Harbour Mains - by<br>AECOM & Relevant Authonities         Materials Manufacture & Site Delivery       Contractor's Design (VC)         Innon - Gross Harbour Maintering       Contractor's Design (VC)         Innon - Gross Harbou | RE-30500       ELS for CWB Tunneling Works Stage 1B (GEO) for<br>Bottom Up       28         RE-3310       Stage 2 Tunnel Structure Design       60         RE-3320       Stage 3 Tunnel Structure Design       60         RE-3200       Salt Water Mains (S3)       28         PRE-32000       Salt Water Mains (S3)       28         PRE-32000       Salt Water Mains (S3)       28         PRE-32000       Cooling Watermains (BF)       28         PRE-32000       Cooling Watermains (BF)       28         PRE-32000       Cooling Watermains (BF)       28         PRE-32000       Cooling Watermains (BC)       28         PRE-32000       Cooling Watermains (BF)       28         PRE-32000       Cooling Watermains (BF)       28         PRE-4020       Contractor's Detailed Design       30         RE-4020       Contractor's Detailed Design       60         totor Compon (CWB Dispinger Wati)       9       4         RE-5100C       Approval of ICCP of Cross-Harbour Mains - by<br>AcCOM & Relevant Authorities       9         Materials Manufacture & Site Delivery       0       0         total a Do Total Harbour Mains Finn       0       0         total a Do Total Harbour Mains Finn       0       0 | RE-3050D       ELS for CWB Tunneling Works Stage 1B (GEO) for<br>Bottom Up       28       20-Apr-11 A         RE-3010       Stage 2 Tunnel Structure Design       60       20-Feb-15         RE-3020       Stage 3 Tunnel Structure Design       60       20-Feb-15         PRE-3200C       Satt Water Mains (S3)       28       20-Feb-15'         PRE-3200C       Satt Water Mains (S3)       28       20-Feb-15'         PRE-3200C       Satt Water Mains (S3)       28       20-Feb-15'         PRE-3200C       Satt Water Mains (S9)       28       20-Feb-15'         PRE-3200C       Cooling Watermains (B1)       28       20-Feb-15'         PRE-3200Q       Cooling Watermains (B1)       28       20-Feb-15'         PRE-3200Q       Cooling Watermains (B1)       28       20-Feb-15'         PRE-4020       Contractor's Detailed Design       30       09-Jul-11 A         RE-4020       Contractor's Detailed Design       30       09-Jul-11 A         RE-5100C       Approval of ICCP of Cross-Harbour Mains - by       9       04-Mar-11 A         Materials Manufacture & Site Delivery       0       0       0         Ion 1 - Cross Harbour Mainter Ing       0       0       0       0         Ion 2 - Info Scenee Cooff & State State P | RE-3050D         ELS for CWB Tunneling Works Stage 18 (GEO) for<br>Bottom Up         28         20-Apr-11A         20-Feb-15           RE-3010         Stage 2 Tunnel Structure Design         60         20-Feb-15         20-Apr-15           RE-3020         Stage 3 Tunnel Structure Design         60         20-Feb-15         20-Apr-15           RE-3020         Satt Water Mains (S3)         28         20-Feb-15         20-Apr-15           PRE-32000         Satt Water Mains (S3)         28         20-Feb-15         10-Main-15           PRE-32000         Satt Water Mains (S0)         28         20-Feb-15         10-Main-15           PRE-32000         Cooling Watermains (B/D)         28         20-Feb-15         21-Apr-15           RE-4020         Contractor's Detailed Design         30         99-Jul-11A         20-Feb-15           RE-5100C         Approval of ICCP of Cross-Harbour Mains - by<br>AECOM's adverant Authoritie         40         24-Apr-15           Materials Manufactur | RE-30500         ELS for CWB Tunneling Works Stage 1B (GEO) for<br>Boltom Up         28         20-Apr-11         20-Feb-15         4601           RE-3010         Stage 2 Tunnel Structure Design         60         20-Feb-15         20-Apr-15         422           RE-3010         Stage 3 Tunnel Structure Design         60         20-Feb-15         20-Apr-15         442           RE-3020         Salt Water Mains (S8)         28         20-Feb-15         19-Mar-15         607           PRE-3200C         Salt Water Mains (S8)         28         20-Feb-15         19-Mar-15         607           PRE-3200D         Salt Water Mains (S8)         28         20-Feb-15         19-Mar-15         607           PRE-3200D         Cooling Watermains (B7)         28         20-Feb-15         19-Mar-15         157           PRE-3200D         Cooling Watermains (B1)         28         20-Feb-15         19-Mar-15         157           PRE-3200D         Cooling Watermains (B1)         28         20-Feb-15         19-Mar-15         481           RE-4020         Contractor's Detailed Design         30         09-Jul-11         20-Feb-15         19-Mar-15         481           RE-4020         Contractor's Detailed Design         30         02-Feb-15         19-Mar-16   | PEE-30500         ELS for CWB Turneling Works Stage 18 (GEC) for<br>Bet-3020         20-Apr-11A         20-Feb-15         20-Apr-15         482         S30-TS-1000           RE-3020         Stage 3 Turnel Structure Design         60         20-Feb-15         20-Apr-15         482         S30-TS-1000           RE-3020         Stage 3 Turnel Structure Design         60         20-Feb-15         20-Apr-15         482         S30-TS-1000           RE-3020         Salt Water Mains (S3)         28         20-Feb-15         18-Mar-15         507         KD-0010           PRE-32000         Salt Water Mains (S3)         28         20-Feb-15         18-Mar-15         427         KO-0010           PRE-32000         Cooling Watermains (B0)         28         20-Feb-15         18-Mar-15         451         KD-0010           PRE-32000         Cooling Watermains (B0)         28         20-Feb-15         18-Mar-15         451         PRE-4000           RE-4020         Contractor's Dataled Design         30         0-Ju-Feb-15         18-Mar-15         451         PRE-4000           RE-4030         AECOM's and GEO's approval on Detailed Design         50         24-Feb-15         24-Feb-15         542           RE-4030         AECOM's and GEO's approval on Detailed Design         50 | Bit Store         List for CWB Tunneling Works Stage 18 (GEO) for<br>Bit Bit 2 Tunnel Sinceture Design         CP         PRE-30058           RE-3020         Stage 2 Tunnel Sinceture Design         60         20-Feb-15         20-Apr-13         442 (SB-75-100)           RE-3020         Stage 2 Tunnel Sinceture Design         60         20-Feb-15         20-Apr-15         442 (SB-75-100)           RE-3020         State 2 Tunnel Sinceture Design         60         20-Feb-15         20-Apr-15         442 (SB-75-100)           RE-3020         Stat Water Maris (S0         28         00-Feb-15         20-Apr-16         420 (SB-75-100)           RE-2020         Stat Water Maris (S0         28         00-Feb-15         19-Mar-16         507 (KO-010)           RE-2020         Cooling Watermans (B)         28         20-Feb-15         19-Mar-16         151 (KO-010)           RE-2020         Cooling Watermans (B)         28         20-Feb-15         19-Mar-16         1451 (KO-010)           RE-4020         Conting Watermans (B)         28         29-Feb-15         19-Mar-16         1451 (KO-010)           RE-4020         Conting Watermans (B)         28         09-Feb-15         21-Apr-18         48         PRE-4000           RE-4020         Conting Watermans (B)         29         0-Feb- | RE-30500         EL:S for CWB Tunneling Worke Stage 18 (GEO) for<br>Bettern Up         28         20-Apr-11A         20-Feb-15         -501         PRE-30503           RE-3020         Stage 2 Tunnel Structure Design         60         20-Feb-15         30-Apr-15         482         303 TE-1100           RE-3020         Stage 2 Tunnel Structure Design         60         20-Feb-15         30-Apr-15         482         303 TE-1100           RE-3020         Stat Vater Mates (33)         28         29-Feb-15         40-Apr-15         482         300 TE-1100           RE-30200         Satt Vater Mates (33)         28         29-Feb-15         40-Apr-15         482         300 TE-1100           RE-30200         Cooling Watermates (30)         28         29-Feb-15         40-Apr-15         481         NO-010           RE-30200         Cooling Watermates (30)         28         29-Feb-15         40-Apr-15         441         NO-010           RE-30200         Cooling Watermates (30)         28         29-Feb-15         441         PRE-4000           RE-4020         Cooling Watermates (30)         28         29-Feb-15         441         PRE-4000           RE-4020         Cooling Watermates (30)         28         29-Feb-15         441         PRE-4000 | Bit State         Pressoon         Pressoon         Pressoon           BE 42000         Bug of Turnel By Norke Stage 1B (GEO) for<br>Bit State Distance Design         00         20-Feb-15         -601         PRE-3050A           BE 3310         Stage 3 Turnel By Norke Stage 1B (GEO) for<br>BE 3320         28         20-Apr-15         20-Apr-15         422         Stage 3 Turnel By Norke Design         00         20-Feb-15         20-Apr-15         422         Stage 3 Turnel By Norke Design         00         20-Feb-15         20-Apr-15         422         Stage 3 Turnel By Norke Design         00         20-Feb-15         20-Apr-15         422         Stage 3 Turnel By Norke Design         00         20-Feb-15         20-Apr-15         422         Stage 3 Turnel By Norke Design         00         20-Feb-15         19-Mar-15         507         No-010           PRE-3020D         Sale Water Main (S9)         28         20-Feb-15         19-Mar-15         515         No-010         PRE-4020         < | Excoso         PIEL         PIEL | BEGOOD         ELS for CWB Turneling Works Stage 18 (GEQ) for<br>Bottom Up         20 April 14         20 Feb 15         401         PRE-3000           Bittom Up         Stage 2 Turnel Structure Delyn         60         20 Feb 15         20 April 14         20 Feb 15         20 April 14         20 Feb 15         401         PRE-3000           RE-3020         Stage 2 Turnel Structure Delyn         60         20 Feb 15         20 April 14         425 SQC Feb 100         442 SQC Feb 100           RE-3020         Stat Water Mars (S)         28         20 Feb 15         19 Marc 16         507 ICO-010           PRE-3020C         Stat Water Mars (S)         28         20 Feb 15         19 Marc 16         507 ICO-010           PRE-3020C         Stat Water Mars (S)         28         20 Feb 15         19 Marc 16         507 ICO-010           PRE-3020C         Stat Water Mars (S)         28         20 Feb 15         19 Marc 16         500 ICO-010           PRE-3020C         Stat Water Mars (S)         28         20 Feb 15         19 Marc 16         500 ICO-010           PRE-3020C         Stat Water Mars (S)         28         20 Feb 15         14 Marc 16         10 Feb 400           RE-4020         Cortractor Delated Delated         0         0 Autor 14         20 Feb 15         401 <td>BE3000         ELS or CWB Turneling Works Stage 18 (GEQ) (ml 28         20 - Apu-11A         20 - Feb-15         401         PRE-3000           Biblion Up         Blage 2 Turnel Structure Delay         00         20 - Feb-15         20 - Apu-11A         20 - Feb-15         20 - Apu-11A         20 - Feb-15         401         PRE-3000           RE-3030         Blage 2 Turnel Structure Delay         00         20 - Feb-15         20 - Apu-11A         402         SIG - Feb-15         401         SIG - Feb-15         10 - 4000</td> <td>Excession         ELS for CWB Tunneling Work Slage 18 (EEG) for<br/>Bittom Up         2         20-Apr-11A         20-Pre-15         40-Pre-15         40-Pre-15<td>Excool         ELS for CWD Tunnelng Work Slage 18 (EEQ) for<br/>Bottom Up         28         20-Apr-11A         20-Fab-15         40-Fib 10           EE-0000         Blage 2 Tunnel Blockute Design         60         20-Fab-15         20-Apr-12A         420-Fab-15         420-Fab-15           FE-0000         Stage 2 Tunnel Blockute Design         60         20-Fab-15         20-Apr-13         420-Fab-15         420-Fab-16           FE-0000         Staff Vater Mark (80)         28         20-Fab-15         20-Fab-15         20-Fab-16           FE-0000         Staff Vater Mark (80)         28         20-Fab-16         19-Mar-15         600         10-010           FFE-0000         Staff Vater Mark (80)         28         20-Fab-16         19-Mar-15         600         10-010           FFE-0000         Staff Vater Mark (80)         28         20-Fab-16         19-Mar-15         610         10-010           FFE-0000         Cooling Vatermark (80)         28         20-Fab-16         14-Mar-15         151 KD-0010           FFE-0000         Cooling Vatermark (80)         28         20-Fab-16         14-Mar-15         151 KD-0010           FFE-0000         AECOMa and GEOs approval on Detailed Design         0         0         0         0           FFE-1000<td>Excession         Els for CWB Turneling Works Stage 1B (EEC) for 63         20-April 1A         20-Feb 15         401         PRE-50000           BE-6000         BLS for CWB Turneling Works Stage 1B (EEC) for 63         20-April 1A         20-Feb 15         422 SB2-T5-100           RE-3030         Stage 7 Turnel Structure Design         00         20-Feb 15         20-April 1A         422 SB2-T5-100           RE-3030         Stage 7 Turnel Structure Design         00         20-Feb 15         20-April 1A         422 SB2-T5-100           RE-3030         Stage 7 Turnel Structure Design         00         20-Feb 15         20-April 1A         422 SB2-T5-100           RE-3030         Stage 7 Turnel Structure Design         80         20-Feb 15         20-April 1A         20-Feb 15         21-Feb 15</td><td>Excession         ELS for CVUB Turnning Works Stage 18 (GEO) for<br/>Bottom Up         S 30-April 14         20 Feb:15         2</td><td>Bits South         Eld for CVIB Turneling Works Stage 18 (GED) for<br/>Bolton Up         2 APA-r11         2 A</td><td>Excession         Els for CWB transling Works Steps 15 (ECD) for 28         20 Apr-11A         20 Feb-15         400 FeB-0000           Bidsmin Up         Bidsm</td><td>Exercise         Exercise         Pres-scool         Pres-scool           Bit Social Distribution         Base T terminal Distribution         BaseT terminal Distribution         Base T terminal Distribut</td><td>Exercise         Description         Description         Description           Bit Socie         B</td><td>Bit Socie         Description         Piel Socie         Piel Socie           Piel Socie         S</td><td>Exercise         Image: Source So</td><td>Bit Socie         Control Subscription         Defended         PEE-6000           Bit Socie         &lt;</td><td>Encode         Experience         Pressoon           Bission 1, Sin Cry ND management (Name)         0         0.494-11         0.29</td><td>BC-3000         BL3 Is Chrom Lunnstein (Wein Slage 31 BLGC) (W. 20         BA         BA-44-15         400         PRE-3000           BL5 BLGC (W. 10, mick Wein Slage 31 BLGC) (W. 20         BA         BA-44-15         BA-44-15         400         PRE-3000           BL5 BLGC (W. 10, mick Wein Slage 31 BLGC) (W. 20         BA         BA-44-15         BA-44-15</td><td>BC-0000         LLS IS CONTINUES DATA         BC-0010         BC-0010<!--</td--></td></td></td> | BE3000         ELS or CWB Turneling Works Stage 18 (GEQ) (ml 28         20 - Apu-11A         20 - Feb-15         401         PRE-3000           Biblion Up         Blage 2 Turnel Structure Delay         00         20 - Feb-15         20 - Apu-11A         20 - Feb-15         20 - Apu-11A         20 - Feb-15         401         PRE-3000           RE-3030         Blage 2 Turnel Structure Delay         00         20 - Feb-15         20 - Apu-11A         402         SIG - Feb-15         401         SIG - Feb-15         10 - 4000 | Excession         ELS for CWB Tunneling Work Slage 18 (EEG) for<br>Bittom Up         2         20-Apr-11A         20-Pre-15         40-Pre-15         40-Pre-15 <td>Excool         ELS for CWD Tunnelng Work Slage 18 (EEQ) for<br/>Bottom Up         28         20-Apr-11A         20-Fab-15         40-Fib 10           EE-0000         Blage 2 Tunnel Blockute Design         60         20-Fab-15         20-Apr-12A         420-Fab-15         420-Fab-15           FE-0000         Stage 2 Tunnel Blockute Design         60         20-Fab-15         20-Apr-13         420-Fab-15         420-Fab-16           FE-0000         Staff Vater Mark (80)         28         20-Fab-15         20-Fab-15         20-Fab-16           FE-0000         Staff Vater Mark (80)         28         20-Fab-16         19-Mar-15         600         10-010           FFE-0000         Staff Vater Mark (80)         28         20-Fab-16         19-Mar-15         600         10-010           FFE-0000         Staff Vater Mark (80)         28         20-Fab-16         19-Mar-15         610         10-010           FFE-0000         Cooling Vatermark (80)         28         20-Fab-16         14-Mar-15         151 KD-0010           FFE-0000         Cooling Vatermark (80)         28         20-Fab-16         14-Mar-15         151 KD-0010           FFE-0000         AECOMa and GEOs approval on Detailed Design         0         0         0         0           FFE-1000<td>Excession         Els for CWB Turneling Works Stage 1B (EEC) for 63         20-April 1A         20-Feb 15         401         PRE-50000           BE-6000         BLS for CWB Turneling Works Stage 1B (EEC) for 63         20-April 1A         20-Feb 15         422 SB2-T5-100           RE-3030         Stage 7 Turnel Structure Design         00         20-Feb 15         20-April 1A         422 SB2-T5-100           RE-3030         Stage 7 Turnel Structure Design         00         20-Feb 15         20-April 1A         422 SB2-T5-100           RE-3030         Stage 7 Turnel Structure Design         00         20-Feb 15         20-April 1A         422 SB2-T5-100           RE-3030         Stage 7 Turnel Structure Design         80         20-Feb 15         20-April 1A         20-Feb 15         21-Feb 15</td><td>Excession         ELS for CVUB Turnning Works Stage 18 (GEO) for<br/>Bottom Up         S 30-April 14         20 Feb:15         2</td><td>Bits South         Eld for CVIB Turneling Works Stage 18 (GED) for<br/>Bolton Up         2 APA-r11         2 A</td><td>Excession         Els for CWB transling Works Steps 15 (ECD) for 28         20 Apr-11A         20 Feb-15         400 FeB-0000           Bidsmin Up         Bidsm</td><td>Exercise         Exercise         Pres-scool         Pres-scool           Bit Social Distribution         Base T terminal Distribution         BaseT terminal Distribution         Base T terminal Distribut</td><td>Exercise         Description         Description         Description           Bit Socie         B</td><td>Bit Socie         Description         Piel Socie         Piel Socie           Piel Socie         S</td><td>Exercise         Image: Source So</td><td>Bit Socie         Control Subscription         Defended         PEE-6000           Bit Socie         &lt;</td><td>Encode         Experience         Pressoon           Bission 1, Sin Cry ND management (Name)         0         0.494-11         0.29</td><td>BC-3000         BL3 Is Chrom Lunnstein (Wein Slage 31 BLGC) (W. 20         BA         BA-44-15         400         PRE-3000           BL5 BLGC (W. 10, mick Wein Slage 31 BLGC) (W. 20         BA         BA-44-15         BA-44-15         400         PRE-3000           BL5 BLGC (W. 10, mick Wein Slage 31 BLGC) (W. 20         BA         BA-44-15         BA-44-15</td><td>BC-0000         LLS IS CONTINUES DATA         BC-0010         BC-0010<!--</td--></td></td> | Excool         ELS for CWD Tunnelng Work Slage 18 (EEQ) for<br>Bottom Up         28         20-Apr-11A         20-Fab-15         40-Fib 10           EE-0000         Blage 2 Tunnel Blockute Design         60         20-Fab-15         20-Apr-12A         420-Fab-15         420-Fab-15           FE-0000         Stage 2 Tunnel Blockute Design         60         20-Fab-15         20-Apr-13         420-Fab-15         420-Fab-16           FE-0000         Staff Vater Mark (80)         28         20-Fab-15         20-Fab-15         20-Fab-16           FE-0000         Staff Vater Mark (80)         28         20-Fab-16         19-Mar-15         600         10-010           FFE-0000         Staff Vater Mark (80)         28         20-Fab-16         19-Mar-15         600         10-010           FFE-0000         Staff Vater Mark (80)         28         20-Fab-16         19-Mar-15         610         10-010           FFE-0000         Cooling Vatermark (80)         28         20-Fab-16         14-Mar-15         151 KD-0010           FFE-0000         Cooling Vatermark (80)         28         20-Fab-16         14-Mar-15         151 KD-0010           FFE-0000         AECOMa and GEOs approval on Detailed Design         0         0         0         0           FFE-1000 <td>Excession         Els for CWB Turneling Works Stage 1B (EEC) for 63         20-April 1A         20-Feb 15         401         PRE-50000           BE-6000         BLS for CWB Turneling Works Stage 1B (EEC) for 63         20-April 1A         20-Feb 15         422 SB2-T5-100           RE-3030         Stage 7 Turnel Structure Design         00         20-Feb 15         20-April 1A         422 SB2-T5-100           RE-3030         Stage 7 Turnel Structure Design         00         20-Feb 15         20-April 1A         422 SB2-T5-100           RE-3030         Stage 7 Turnel Structure Design         00         20-Feb 15         20-April 1A         422 SB2-T5-100           RE-3030         Stage 7 Turnel Structure Design         80         20-Feb 15         20-April 1A         20-Feb 15         21-Feb 15</td> <td>Excession         ELS for CVUB Turnning Works Stage 18 (GEO) for<br/>Bottom Up         S 30-April 14         20 Feb:15         2</td> <td>Bits South         Eld for CVIB Turneling Works Stage 18 (GED) for<br/>Bolton Up         2 APA-r11         2 A</td> <td>Excession         Els for CWB transling Works Steps 15 (ECD) for 28         20 Apr-11A         20 Feb-15         400 FeB-0000           Bidsmin Up         Bidsm</td> <td>Exercise         Exercise         Pres-scool         Pres-scool           Bit Social Distribution         Base T terminal Distribution         BaseT terminal Distribution         Base T terminal Distribut</td> <td>Exercise         Description         Description         Description           Bit Socie         B</td> <td>Bit Socie         Description         Piel Socie         Piel Socie           Piel Socie         S</td> <td>Exercise         Image: Source So</td> <td>Bit Socie         Control Subscription         Defended         PEE-6000           Bit Socie         &lt;</td> <td>Encode         Experience         Pressoon           Bission 1, Sin Cry ND management (Name)         0         0.494-11         0.29</td> <td>BC-3000         BL3 Is Chrom Lunnstein (Wein Slage 31 BLGC) (W. 20         BA         BA-44-15         400         PRE-3000           BL5 BLGC (W. 10, mick Wein Slage 31 BLGC) (W. 20         BA         BA-44-15         BA-44-15         400         PRE-3000           BL5 BLGC (W. 10, mick Wein Slage 31 BLGC) (W. 20         BA         BA-44-15         BA-44-15</td> <td>BC-0000         LLS IS CONTINUES DATA         BC-0010         BC-0010<!--</td--></td> | Excession         Els for CWB Turneling Works Stage 1B (EEC) for 63         20-April 1A         20-Feb 15         401         PRE-50000           BE-6000         BLS for CWB Turneling Works Stage 1B (EEC) for 63         20-April 1A         20-Feb 15         422 SB2-T5-100           RE-3030         Stage 7 Turnel Structure Design         00         20-Feb 15         20-April 1A         422 SB2-T5-100           RE-3030         Stage 7 Turnel Structure Design         00         20-Feb 15         20-April 1A         422 SB2-T5-100           RE-3030         Stage 7 Turnel Structure Design         00         20-Feb 15         20-April 1A         422 SB2-T5-100           RE-3030         Stage 7 Turnel Structure Design         80         20-Feb 15         20-April 1A         20-Feb 15         21-Feb 15 | Excession         ELS for CVUB Turnning Works Stage 18 (GEO) for<br>Bottom Up         S 30-April 14         20 Feb:15         2 | Bits South         Eld for CVIB Turneling Works Stage 18 (GED) for<br>Bolton Up         2 APA-r11         2 A | Excession         Els for CWB transling Works Steps 15 (ECD) for 28         20 Apr-11A         20 Feb-15         400 FeB-0000           Bidsmin Up         Bidsm | Exercise         Exercise         Pres-scool         Pres-scool           Bit Social Distribution         Base T terminal Distribution         BaseT terminal Distribution         Base T terminal Distribut | Exercise         Description         Description         Description           Bit Socie         B | Bit Socie         Description         Piel Socie         Piel Socie           Piel Socie         S | Exercise         Image: Source So | Bit Socie         Control Subscription         Defended         PEE-6000           Bit Socie         < | Encode         Experience         Pressoon           Bission 1, Sin Cry ND management (Name)         0         0.494-11         0.29 | BC-3000         BL3 Is Chrom Lunnstein (Wein Slage 31 BLGC) (W. 20         BA         BA-44-15         400         PRE-3000           BL5 BLGC (W. 10, mick Wein Slage 31 BLGC) (W. 20         BA         BA-44-15         BA-44-15         400         PRE-3000           BL5 BLGC (W. 10, mick Wein Slage 31 BLGC) (W. 20         BA         BA-44-15         BA-44-15 | BC-0000         LLS IS CONTINUES DATA         BC-0010         BC-0010 </td |

Extend of bit metal (bit metal)         Image: metal (bit metal)         Image: metal (bit metal)           TMAM-9100         TTA00000000000000000000000000000000000	y ID	Activity Name	OD	Start	Finish	Tola Float	Predecessors	10	2011		-	20	12			_	<b>D - L</b>	1.1						
Turks-1-0         Al-20 Total         P         PE-46-15         Tele SP-100           TURKs-1-000         TURKs-16-000         TURKs-16-000         TURKs-16-000         TURKs-16-000           TURKs-1-100         TURKs-16-000         TURKs-16-000         TURKs-16-000         TURKs-16-000           TURKs-1-100         TURKs-16-000         TURKs-16-000         TURKs-16-000         TURKs-16-000           TURKs-16-100         TURKs-16-000         TURKs-16-000         TURKs-16-000         TURKs-16-000           TURKs-16-100         TURKs-16-000         TURKs-16-000         TURKs-16-000         TURKs-16-000           TURKs-16-000         TURKs-16-000         TURKs-16-000         TURKs-16-000         TURKs-16-000           TURKs-16-0000         TURKs-16-0000         TURKs-16-0000         TURKs-16-0000         TURKs-16-0000           TURKs-16-0000	Zana AZ (At Ferrwick P	or Street)	-	THE REAL PROPERTY AND				MAN	บับ	ASON	DJIFI	MAMJ	JASI	OND	Otr 1	Qtr 2	Ctr 3 C	tr 4 (	Atr 1 C	ar 2 (	Qtr 3 C	tr 4 Qt	110	IT 2
T1AAA-0-100         T1A dopmonutan - Zare A3-02 (Bawer)         0         148         T1AAA-0-000           T1AAA-0-100         T1A dopmonutan - Zare A3-02 (Bawer)         0         28-Apr-19         138         0-140           T1AAA-0-100         T1A dopmonutan - Zare A3-02 (Bawer)         0         28-Apr-19         138         0-140           T1AAA-0-100         T1A dopmonutan - Zare A3-02 (Bawer)         0         82-Apr-19         138         0-140           T1AAA-0-1000         T1A dopmonutan - Zare A3-02 (Bawer)         0         82-Apr-19         138         0-160           T1AAAA-1000         T1A dopmonutan - Zare A3-02 (Bawer)         0         82-Apr-19         0         62-Apr-19           T1AAAA-1000         T1A Completion - Zare A3-02         0         0         0         62-Apr-19         6			0	100000-15	10 Mar 15	100	D0 4600			1111	111	1111		111	111	1.101	111010	111010	1 IMA	IMUUU	ASU	NUJI	MAI	M J
TRMA-01-000         TAC-000-0000-2006-2006         0         <	TTANA AN ANA				13-Widt-10	-190	58-1030			1111	111	1111		111	111	111	111			111	1111		T	Adi
11 7043-7103         11 A.Omyldian - Zank A-20 (Bawr)         0         28-4p-15         140         140           11 7044-7103         11 A.Omyldian - Zank A-20 (Bawr)         0         28-4p-15         140         140-40-4000           11 7044-7103         11 A.Omyldian - Zank A-20 (Bawr)         0         28-4p-15         475 <td>TTAM-A3-1040</td> <td>TTA Implementation - Zone A3-2C (Sewer)</td> <td>0</td> <td>19-Mar-15</td> <td></td> <td>-195</td> <td>TTA-A3-6050,</td> <td>111</td> <td></td> <td>1111</td> <td></td> <td>111</td> <td></td> <td>111</td> <td>111</td> <td>111</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	TTAM-A3-1040	TTA Implementation - Zone A3-2C (Sewer)	0	19-Mar-15		-195	TTA-A3-6050,	111		1111		111		111	111	111								
TANA-5-1000         TARA-5000         TARA-5000           TANA-4-900         TARA-5000           TANA-4-900         TARA-5000           TANA-4-9008         TARA-5000           TARA-4-9008         TARA-5000           TARA-4-9008         TARA-5000           TARA-50008         TARA-5000           TARA-50008         TARA-5000           TARA-50008         TARA-5000           TARA-50008         TARA-5000           TARA-50008         TARA-50000           TARA-50008         TARA-50000           TARA-50008         TARA-50000           TARA-50008         TARA-50000           TARA-50008         TARA-50000           TARA-50008         TARA-500000           TARA-50008         TARA-500000           TARA-50008         TARA-500000           TARA-50008         TARA-500000           TARA-50008         TARA-5000000           TARA-50008         TARA-50000000	TTAM-A3-1050	TTA Completion - Zone A3-2C (Sewer)	0		00.4			111		1111	111			111	111	111							17	Alm
TXAA-5100         TXAA-5100         TXAA-5100         TXAA-5100           TXAA-5100         TXAA-5100         TXAA-51000         TXAA-51000	TTAM-A3-1060	TTA Implementation - Zone A3-2D (Sewer)		26-Apr-15	26-Apr-15			- 11		1111	111			111	111	111	111						1	TTA
TTAC A-1088         TTAC - 200 A/S-02 - 200 A/S-02 - 200 A/S-02         User         <	TTANA 42 1070			and the set		-100	TTAM-A3-1050	11		1111	111		111	111	111	111	1111						E	
Control         Control         Control         Control           TTMAA-11200         TTACComptition - Zone A4-20         0         00-44-15         001           TTMAA-11200         TTACComptition - Zone A4-20         0         00-44-15         001         00-44-15         001           TTMAA-112000         TTACComptition - Zone A4-20         0         00-44-15         001         00-44-15         001         00-44-15         001         00-44-15         001         00-44-15         001         00-44-15         001         00-44-15         001         00-44-15         001         00-44-15         001         00-44-15         001         00-44-15         001         00-44-15         001         00-44-15         001         00-44-15         001         00-44-15         001         00-44-15         001         00-44-15         001         00-44-15         001         00-44-15         000         00-44-15         000         00-44-15 <td></td> <td>TTA Completion - Zone A3-2D (Sewer)</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>111</td> <td>111</td> <td>*1**</td> <td>+++</td> <td></td> <td>+++</td> <td>·</td> <td>+++-</td> <td>++++</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4.</td>		TTA Completion - Zone A3-2D (Sewer)	-					111	111	*1**	+++		+++	·	+++-	++++								4.
22/2014 Althoung Ray 2017         De Warden 2017         A07 Section 0.94 1520           TTAM-AG-1050B         TTA Completion - Zone AS-8         0         60-April 1         300         84-100.00.94 1520           Zone B1 (A NECCE VIP Day 2017 Assault 2 Sault 2 No. 2017         0         60-April 1         0         84-100.00.94 1520           Zone B1 (A NECCE VIP Day 2017 Assault 2 Sault 2 No. 2017         0         0         0         94-100.00.94 1520           Zone B1 (A NECCE VIP Day 2017 Assault 2 No. 2018 Assault 2 N		Avenues	0	- AN EVERY	26-Mar-15	507	S4-2520, S4-2120			1111	111		111	111	111	111	1111						LF	ACO
THAN-510080         TA Completion - Zone AS-5         0         0 Appr15         500         54-100, 54-500           Term B1 (Am C2C viel Comp-Off Amus and Sum Amu Casual         0         0 Appr15         00         54-100, 56-100, 56	TTAM-A4-1120B	TTA Completion - Zone A4-2C	0	NATIONAL COL	02-Apr-15	207	S4 1000 D4 4500		11	1111	111		111	111	111	111		111						one A
Strate BI (A MICEC VM Doe-Off Aware Are Aware Are Are Are Are Are Are Are Are Are A	Zone AS (Al Harbour Ro		DL.	102-Apr-15	Demon To	-207	54-1000, 54-1520			1111	111	1111	111	111	111			111					F) T	TAC
364-1520         364-1520           Zever X12 (A vinit CD vinit Dip-Chi Ana and Essa One Cantall         0           Zever X12 (A vinit CD vinit Dip-Chi Ana and Essa One Cantall         0           Zever X12 (A vinit CD vinit Dip-Chi Ana and Essa One Cantall         0           Zever X12 (A vinit CD vinit Dip-Chi Ana and Essa One Cantall         0           Zever X12 (A vinit CD vinit Dip-Chi Ana and Essa One Cantall         0           Zever X12 (A vinit CD vinit Dip-Chi Ana and Essa One Cantall         0           Zever X12 (A vinit CD vinit Dip-Chi Ana and Essa One Cantall         0           Zever X12 (A vinit CD vinit Dip-Chi Ana and Essa One Cantall         0           Zever X12 (A vinit CD vinit Dip-Chi Ana and Essa One Cantall         0           Zever X12 (A vinit CD vinit Dip-Chi Ana and Essa One Cantall         0           Zever X12 (A vinit CD vinit Dip-Chi Ana and Essa One Cantall         0           Zever X12 (A vinit CD vinit Dip-Chi Ana Ana X1-1         0         0           TAW-X2-100B         TTAC-Comption - Zone X1-2         0         0           TAW-X2-100B         TTAC-Comption - Zone X1-3         0         22 May 15         450           TAW-X2-100B         TTAC-Comption - Zone C3-1         0         22 May 15         450           TAW-X2-100B         TTAC-Comption - Zone C3-1         0         0 <t< td=""><td>TTAM-A5-1050B</td><td>TTA Completion - Zone A5-6</td><td>0</td><td></td><td>02-Apr-15</td><td>500</td><td>S4-1100, S4-1510,</td><td></td><td></td><td>****</td><td>+++++</td><td>· · · · ·</td><td></td><td>1.4.1.</td><td>÷</td><td></td><td></td><td>1.1.1</td><td></td><td></td><td></td><td></td><td></td><td>one A</td></t<>	TTAM-A5-1050B	TTA Completion - Zone A5-6	0		02-Apr-15	500	S4-1100, S4-1510,			****	+++++	· · · · ·		1.4.1.	÷			1.1.1						one A
Cone USA Vicit Channel Case One Kannell     0       Dame Bit Monder Channell Case One Kannell     0       Tame Sint One Kannell Case One Kannell     0       Tame Sint One Kannell Case One Kannell     0       Tame Sint One Kannell Case One Case     0       Section 1 of the Kannell Case One Case     0       Pationen Sinthia     0       Tame Sint One Kannell Case One Case     0       Tame Sint One Kannell Case One Case     0       Pation Sinthia     0       Section 20 of the Kannell Case One     0       Tame S	Zons B1 (ALHKCEC VIP	Group-Off June and Garmanie Barro Strategies	1		194 194 19 19	-	S4-1520		11		111		111		111			111					198	TAC
Drive B3 (Al Vales (Dimonal)     0       Drive B3 (Al	Zone B2 DATHICEC VIP	Biog-Off Area and Face Drive Controll				0			11	1111	111	1111	111	111				111						
2min B0 / A Tapa Auto central store)         0	20mm #3 (At Water Ether	(had):				0			11	1611	111		111	111						111				
Science BC (North & Yence of PNCID: Security Results)         Col           Anne XC (North & Yence of PNCID: Security Results)         Col         0           TTAM-33-1008         TTA Completion - Zone X1-1         0         0           TTAM-33-1008         TTA Completion - Zone X1-2         0         0           TTAM-33-1008         TTA Completion - Zone X1-3         0         0         24/wy-15         463         Socool, SeA-1200           TTAM-33-1008         TTA Completion - Zone X1-3         0         0         24/wy-15         463         Socool, SeA-1200           TTAM-33-1008         TTA Completion - Zone G3-1         0         24/wy-15         450         S68-1220           Trian PR Construction Schedule         0         0         0         0         0         0           Section 1 of the Works - Cross B1arbour Watermains, Works in Area 1 & 2         0         0         0         0           Particity A1 Socie Bolt 1 (Fild Fild Soliton Vatermains, Works in Area 1 & 2         0         0         0         0           Particity A1 Soliton 1 (Fild Soliton Vatermains, Works in Area 1 & 2         0         0         0         0           Particity A1 Soliton 1 (Fild Soliton Vatermains, Works in Area 1 & 2         0         0         0         0 <t< td=""><td>Zone E4 (Ar Golarn Ba</td><td>minia aquerer</td><td>0</td><td></td><td></td><td></td><td></td><td></td><td>11</td><td></td><td>111</td><td></td><td>111</td><td>111</td><td></td><td></td><td></td><td>111</td><td></td><td>111</td><td></td><td></td><td></td><td></td></t<>	Zone E4 (Ar Golarn Ba	minia aquerer	0						11		111		111	111				111		111				
And Ulfmahit         End Date Heridau Zula & Currenties Average         Clip Control         End Date Heridau Zula & Currenties Average         Clip Control         End Date Heridau Zula & Currenties Average         Clip Control         End Date Heridau Zula & Currenties Average         Clip Control         Clip Control<	Zone 65 (Al Espo Brive	Germal Norm	D								1.1.1.		4.4.4.							111				
TTAX-X3-1008         TTACompleton - Zone X1-1         0         0P-Map-15         -201         SdA-1200, SdA-5200           TTAX-X3-1008         TTACompleton - Zone X1-3         0         0         0-440-15         463         SdA-5200         SdA-1200, SdA-5200           Arex 22 (Unites between Failure Triate and triate and sense values Area         0         0-224 Map-15         460         SdA-5200           TTAX-S3-1008         TTACompleton - Zone X1-3         0         0         24 Map-15         450           Triate Pit Construction Schedule         0         0         24 Map-15         450         SdB-1220           Triate Pit Construction Schedule         0         0         0         0         0         0           Section 1 of the Works - Crose Harbour Watermains, Works in Area 1 & 2         0         0         0         0         0         0           Socian 1 of the Works - Crose Harbour Watermains, Works in Area 1 & 2         0 <td>Zone 55 (North 5 West</td> <td>or PIKCER - Servinge Syntam)</td> <td>0</td> <td></td> <td></td> <td>UA</td> <td></td> <td></td> <td>11</td> <td>1111</td> <td>111</td> <td></td> <td>111</td> <td></td> <td></td> <td></td> <td></td> <td>111</td> <td></td> <td>111</td> <td></td> <td></td> <td>116</td> <td></td>	Zone 55 (North 5 West	or PIKCER - Servinge Syntam)	0			UA			11	1111	111		111					111		111			116	
TrAN-V3-10108         TrA completion - Zone X1-2         0	TTAN Va doop		13	Circle Mitty-Th	and an entry	110					111		111	111						111				
TTAM-V3-1020B         TTA Completion - Zono X1-3         0									11		111		111		1111			111	111	111	111			
American Statement Henting Realt and Constitution Arrows       0       0       0         Trial PR Construction Schedule       0       0       0         Trial PR Construction Schedule       0       0       0         Section 1 of the Works - Cooling Hander Intake & Discharge System (Chi 0       0       0         Privation Schedule       0       0       0         Privation Schedule Privater Intel (Schedule Privater Intel (Sche		TTA Completion - Zone X1-2							11.				111.					111	111	111			44.42	ATTA
Trake-C3-1000B       Trake-C3-1000B       Trake-C3-1000B       Trake-C3-1000A         Trake-C3-1000B       Trake-C3-1000A       450         Section 1 of the Works - Cross Harbour Watermains, Works in Area 1 & 2       0       0         Section 1 of the Works - Cross Harbour Watermains, Works in Area 1 & 2       0       0         PMA & Citifs 200 To 100 Mm Chai Side)       0       0         ChA & Citifs 200 To 100 Mm Chai Side)       0       0         ChA & Citifs 200 To 100 Mm Chai Side)       0       0         Maintaying at Zongestion (MCD2 Ngaam)       0       0         Maintaying at Zongestion (ChCD2 Ngaam)       0       0         Maintaying at Zongestion (ChCD2 Ngaam)       0       0         The Minit Sourg Citifs Citifs Contron (ChCD2 Ngaam)       0       0         Maintaying at Zongestion (ChCD2 Ngaam)       0       0         Section 2Acit the Works - Cooling Water Intake & Discharge System (Con       0       0         The Works - Cooling Water Intake & Discharge System (Con       0       0         Section 2Acit the Works - Cooling Water Intake & Discharge System (Con       0       0         Maintaying Sourg Citifs Zongestion (ChCC2 Ngaam)       0       0         The Works - Cooling Water Intake & Discharge System (Con       0       0	Arms X2 (Juncilian butwa	onFlaming Road and Convention Avenue)	0	-	22-Way-15	450	S9-5500C, S6A-1220		11									111	111	111	111	111		х <del>н</del>
View Construction Schedule     0     22-May-15     450     S88-1220       Trial Pit Construction Schedule     0     0     0       Sociation 1 of the Works - Cross Hanbour Watermains, Works in Area 1 & 2     0     0       Dubmaker Schön (CHLB & Criss)     0     0       Preliminains     2     0       CHLA & Citis Sociation 1 of the Works - Cross Hanbour Watermains, Works in Area 1 & 2     0       Preliminains     2     0       CHLA & Citis Sociation 1 (CHLB & Criss)     0       Preliminains     2     0       CHLA & Citis Sociation 1 (CHLB & Criss)     0       Impressional Current Oxide Devices (ICCPP) Singlarm     0       Testing & Conneckationing     0       Wein Christ & Criss     0       Testing & Conneckationing     0       Testing & Conneckationing     0       Section 2Aof the Works - Cooling Water Intake & Discharge System (Con     0       Planewing & Conneckationing     0       Testing & Conneckationing     0       Testing & Conneckationing     0       Section 2Aof the Works - Cooling Water Intake & Discharge System (KK)     0	20ng C (Expo Drive Eng	Participation and the second second		25 million th	27 Mar-15	144		111	11				111					111	111	111				11
Trial PIt Construction Schedule     0     0       Section 1 of the Works - Cross Harbour Watermains, Works in Area 1 & 2     0     0       Bultmannies Schaft (2Hz)     0     0       Proliminalies     0     0       CH4 & CH5 Subt to 1160 (Wan Cnal State)     0     0       CH4 & CH5 Subt to 1160 (Wan Cnal State)     0     0       Field RHB     0     0     0       Man Cnal State)     0     0     0       Testing & Commissioning     0     0     0       Man Cnal State)     0     0     0       Testing & Commissioning     0     0     0	TIAM-C3-1000B	TTA Completion - Zone C3-1	0		22-May-15	450	S6B-1220,	111	11				111					111	111	111				7 20
Trial Pit Construction Schedule     0     0       Section 1 of the Works - Cross Harbour Watermains, Works in Area 1 & 2     0       Bullmanna Section (Cirit & Critis)     0       Pullminatus     0       CHA & Cills Soli To 11801 (Man Charl Sida)     0       CHA & Cills Soli To 11801 (Man Charl Sida)     0       CHA & Cills Soli To 11801 (Man Charl Sida)     0       CHA & Cills Soli To 11801 (Man Charl Sida)     0       Charles Toto (Cirit & Colling Uman Charl Sida)     0       Testing & Counchicationing     0       Wan Charl Sidation (Cirit & Colling)     0       Testing & Counchicational (Cirit Colling)     0       Tes				_			TTAM-C3-1000A, S6C-1600, S6A-1240		11									111	111	111	111			
Dubmanie Social (CHA & CHB)       0         Polinianies       0         Polinianies       0         CHA & CHB 50/12 160 (Win Chal Side)       0         Dimensionalies       0         Polinianies	Trial Pit Construction Sch	nedule	0										1111					111	111	111				11
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			
Impressed Gurranti Cathodie Periodection (ICCV) Agriamin     0       Territing & Commissioning     0       Win Otel Scripting (CCCV) Agriamin     0       Maintegring at Zone 8th 4 Concertional Trench Exception     0       Testing & Commissioning     0       Testing & Commissioning     0       Section 2A of the Works - Cooling Water Intake & Discharge System (Con     0       Previous     0       Testing & Commissioning     0       Section 2A of the Works - Cooling Water Intake & Discharge System (Con     0       Testing & Commissioning     0       Testing & Commissioning     0       Section 2A of the Works - Cooling Water Intake & Discharge System (Con     0       Testing & Commissioning     0       Testing & Commissioning     0       Section 2B of the Works - Cooling Water Intake & Discharge System (HK/     0									11							111	111	111	111	111	111			
Testing & Composition (CMC 2 CH0)     Description (CMC 2 CH0)       Meintepring at Zone Bt*4 (Convectional Trench Excession)     0       Testing & Commissioning     0       Testing & Commissioning     0       Section 2A of the Works - Cooling Water Intake & Discharge System (Con     0       Testing & Commissioning     0								144	1.1.			.1.1.1.				111	111	111	111	111	111			
Maintaging at Zone BX-1/ (Concettional Trench Exception)     0       Testing & Controllisking     0						-			11			111				111	111	111	111	TTT	111			
Testing & Commissioning     0     0       Testing & Commissioning     0     0       Testing & Commissioning     0     0       Section 2Aof the Works - Cooling Water Intake & Discharge System (Con     0     0       Discretioning     0     0       Testing & Commissioning     0     0       Discretioning     0     0       Testing & Commissioning     0     0       Section 2B of the Works - Cooling Water Intake & Discharge System (HK/     0     0			E E I			-		111	11	111		111	1111			111	111	111	111	111	111			
Data bits Roul Section (Citt & Cit+)     0       Tenting & Commissioning     0       Section 2A of the Works - Cooling Water Intake & Discharge System (Con     0       Prevenue     0       BAM Works     0       Intradiction at Indet Section     0       Section 2B of the Works - Cooling Water Intake & Discharge System (HK)     0	Maintaying at Zonin Br	6 (Convertional Trench Execution)	a a			11			11	111		111	1111			111	111	111	111	111	111			
Descring & Commentationing     U       Section 2A of the Works - Cooling Water Intake & Discharge System (Con     0       Operating & Commissioning     0       Testing & Commissioning     0       Section 2B of the Works - Cooling Water Intake & Discharge System (HK/     0			0						11	111		111	1111			111	111	111	111	111	111			
Opproving         Discourse           Introductioning         m           EAM Works         0           Introduction of Indef Servery         0           Section 2B of the Works - Cooling Water Intake & Discharge System (HK/         0	Designer & Commission (C	HU LONG	0			0			11	TTT		111	1111					-+-+-	+++	++++	++++			
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					

### **CHUN WO - LEADER JOINT VENTURE**

		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								
	linition 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	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	the second s	Q.	100	-		1	11	11		111	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	19-300-42-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	+++		· · · ·	<b>†</b> ††	111	ŤŤ	111	1	TT	ttt	111		int		19	11
		Stage 1A (For Top Slab Construction - CH2947 - C	0	-	Contraction of 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	STIMBY 15		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	tttt			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)															

### **CHUN WO - LEADER JOINT VENTURE**

	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	1	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 M	(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															-	the second second	
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	-	20-110-15	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-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 local division 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				

D		1.1.					CHUN WO - LEADER JOINT VE
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 JEMAMJY
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		9					
Tenting & Commissioning	Distant and the 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	100m-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	25-44-15	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)

### **CHUN WO - LEADER JOINT VENTURE**

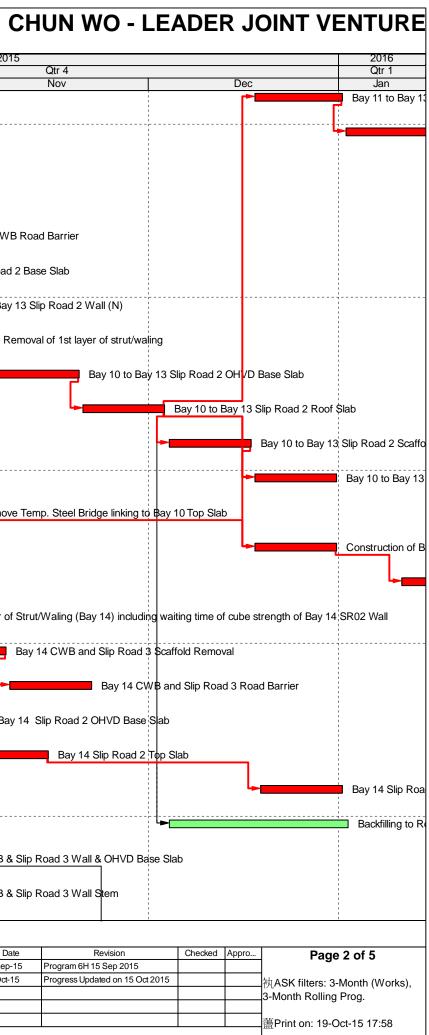
S9-5500B S9-5500C	Activity Name	OD	Start	Finish	Float	Predecessors	MAM	O11	Qtr 4	Qu	1   Qtr	2012 2 QI	D E1		JUL 1		I II A	ISIA	NID	JIER	MAL	ALL I	TIATE	CINIC	Otr 1	Cir 2
	Zone X1-2 - S3 (5m)	0		09-May-15	442	S6A-1210	MIN A	AU	SIGNIL	1914	MAN	50	100	1013	1 1 1	~114	1 1	1919	1	11	11	1010	110	-	1	1.4.4
	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.
Four Water Many (Ed)			00-May to	- 12-Lan-12	011			111	111	11			111	11	11	111	11	11		111	11	11	11	111	111	1
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, \$9-7060																				
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

D	Activity Name	OD	Start	Finish	2015 Qtr 4
(/2000/01 Pov	sed Works Progress Rev. 6H ( Data Date: 15 Oct 15)				Oct Nov Dec
Section 3 of the \	Norks - CWB Tunnel, Slip Roads 2 & 3, Works in Area 8				
CWB Tunnelling	y Works (Stage 1 : CH2947 - CH3045)				
Stage 1 - Tur	nel Structure Works (Bay 1 to Bay 7 : Ch2947 - Ch 3045)				
Tunnel Str	ucture at Stage 1A & 1B (CH2947 - CH3045)				
S3A-TS	-2080 Backfilling to formation level for Stage 1B (CH 80 to CH 120)	200	19-Jan-15 A	15-Nov-15	Backfilling to formation level for Stage 1B (CH 80 to CH 120)
CWB Tunnelling	y Works (Stage 2 : Ch3045 - Ch3129)				
Stage 2 - Tur	nel Structure Works (Bay 7 to Bay 10 : CH3045 - CH3129)				
S3B-TS-11	60C2 Construction of Bay 9 Slip Road 2 Wall	10	26-Sep-15 A	21-Oct-15	Construction of Bay 9 Slip Road 2 Wall
S3B-TS-11	60C3 Construction of Bay 9 Slip Road 2 Road Barrier	14	07-Oct-15 A	19-Oct-15	Construction of Bay 9 Slip Road 2 Road Barrier
S3B-TS-11		14	14-Oct-15 A	27-Oct-15	Construction of Retaining Wall 2 Road Barrier including Demolish of Temporary Dwall to Cut-o
S3B-TS-11	ofTemporary Dwall to Cut-off Level         65A1       Construction of Bay 9 Slip Road 3 Top Slab & Portal Wall	25	05-Oct-15 A	18-Oct-15	Construction of Bay 9 Slip Road 3 Top Slab & Portal Wall
S3B-TS-11	65B Construction of Bay 7, 8 & 9 Slip Road 3 Road Barrier	10	20-Aug-15 A	08-Nov-15	Construction of Bay 7, 8 & 9 Slip Road 3 Road Barrier
S3B-TS-11	65E Construction of Bay 4, 5 & 6 Slip Road 3 Road Barrier	14	24-Sep-15 A	28-Oct-15	Construction of Bay 4, 5 & 6 Slip Road 3 Road Barrier
S3B-TS-11	80A Bay 9b & 10 CWB Road Barrier	20	03-Oct-15 A	22-Oct-15	Bay 9b & 10 CWB Road Barrier
S3B-TS-90	00A Backfilling to Formation Level (CWB) - 12,000cu.m	20	03-Aug-15 A	22-Dec-15	Backfilling to Form
		20	03-Aug-13 A	22-Dec-13	
<b>CWB Tunnellin</b> g	y Works (Stage 3 : Ch3129 - Ch3245)				
Stage 3 - Exc	avation Works (Ch3129 - Ch3245)				
Excavatio	n Works at Stage 3				
S3C-EV	/-1010E Excavation to -16mPD ( approx 55,000m3)	100	13-Mar-15 A	31-Oct-15	Excavation to -16mPD ( approx 55,000m3)
Stage 3 - Tur	nel Structure Works (Bay 11 to Bay 20 : Ch3129 - Ch3245)				
Tunnel Sti	ucture at Stage 3A & 3B (CH3129 - CH3245)				
S3C-TS	-2000E Bay 11 to Bay 13 Slip Road 3 Wall	10	22-Oct-15	31-Oct-15	Bay 11 to Bay 13 Slip Road 3 Wall
S3C-TS	-2000E Access reseved for HyD's CC prior to completion of Slip Road 2	80	01-Nov-15	17-Dec-15	Access reseved for HyD
	Remaining Work Su	mma		CEDD	O. HK/2009/01 Date Revision Checked Appro Page 1 of \$
	Actual Work		<u></u>		In Chai Bypass at HKCEC (Contract 1)

Remaining Work Summa	CEDD CONTRACT NO. HK/2009/01	Date	Revision
		15-Sep-15	Program 6H 15 Sep 2015
Actual Work	Wan Chai Development Phase II - Central-Wan Chai Bypass at HKCEC (Contract 1)	15-Oct-15	Progress Updated on 15 O
Summary Bar	Wan Chai Development Phase in - Central-Wan Chai Dypass at InCEC (Contract 1)		
Critical Remaining Work			
♦ ♦ Milestone	WORKS PROGRAMME Rev.4 - 3 Month Programme starting from 15-Oct-15		

vity ID		Activity Name	OD	Start	Finish			2015
						lan	Oct	Qtr 4 Nov
	S3C-TS-2000E	Bay 11 to Bay 13 Slip Road 3 OHVD Base Slab	15	18-Dec-15	01-Jan-16	iep	Od	NOV
	\$3C-TS-2000E	Bay 11 to Bay 13 Slip Road 3 Top Slab	15	02-Jan-16	16-Jan-16			1 
	000-10-2000L	bay in to bay is slip road s rop slab	15	02-3an-10	10-3411-10			
	S3C-TS-2000E	Bay 11 to Bay 13 Slip Road 3 Scaffold Removal	14	17-Jan-16	30-Jan-16			
	S3C-TS-2000E	Bay 11 to Bay 13 Slip Road 3 Road Barrier	13	31-Jan-16	12-Feb-16	-		
	S3C-TS-200011	Bay 11 to Bay 13 CWB Road Barrier	20	02-Oct-15 A	21-Oct-15		Bay 11 to	Bay 13 CWB Road Barrier
	S3C-TS-2000K	Bay 10 to Bay 13 Slip Road 2 Base Slab	10	06-Oct-15 A	17-Oct-15	-	Bay 10 to Bay 1	3 Slip Road 2 Base Slab
	S3C-TS-2000L	Bay 10 to Bay 13 Slip Road 2 Wall (N)	10	18-Oct-15	27-Oct-15			y 10 to Bay 13 Slip Road 2 Wall (N)
	S3C-TS-2000L	Removal of 1st layer of strut/waling	9	28-Oct-15	05-Nov-15	_		Removal of 1st layer of strut/wa
	S3C-TS-2000L	Bay 10 to Bay 13 Slip Road 2 OHVD Base Slab	14	06-Nov-15	19-Nov-15	_		Bay 10 to Ba
	S3C-TS-2000L	2 Bay 10 to Bay 13 Slip Road 2 Roof Slab	14	20-Nov-15	03-Dec-15	_		-
	S3C-TS-2000L	2 Bay 10 to Bay 13 Slip Road 2 Scaffold Removal	14	04-Dec-15	17-Dec-15	_		
	S3C-TS-2000L	Bay 10 to Bay 13 Slip Road 2 Road Barrier	14	18-Dec-15	31-Dec-15			
	S3c-TS-2000l4	Remove Temp. Steel Bridge linking to Bay 10 Top Slab	7	26-Oct-15*	01-Nov-15	_		Remove Temp. Steel Bridge linking to
	S3C-TS-2000M	Construction of Bay 10 Slip Road 3 Wall & Roof Slab	14	18-Dec-15	31-Dec-15	_		
	S3C-TS-2000N	Construction of Bay 10 Slip Road 3 Road Barrier	7	11-Jan-16	17-Jan-16	_		
	S3C-TS-2030D	Remove 2nd layer of Strut/Waling (Bay 14) including waiting time of cube strength of Bay 14 SR02 Wall	7	06-Oct-15 A	22-Oct-15	_	Remove	2nd layer of Strut/Waling (Bay 14) includii
	S3C-TS-2030H	Bay 14 CWB and Slip Road 3 Scaffold Removal	10	28-Oct-15*	07-Nov-15			Bay 14 CWB and Slip Road
	S3C-TS-2030H	Bay 14 CWB and Slip Road 3 Road Barrier	14	08-Nov-15	21-Nov-15	_		Bay 14 CV
	S3C-TS-2030I	Bay 14 Slip Road 2 OHVD Base Slab	14	22-Oct-15*	04-Nov-15	_		Bay 14 Slip Road 2 OHVD Base
	S3C-TS-2030J	Bay 14 Slip Road 2 Top Slab	10	05-Nov-15	14-Nov-15	_		Bay 14 Slip Road 2
	S3C-TS-2030J	1Bay 14 Slip Road 2 Road Barrier	14	19-Dec-15	01-Jan-16			
	S3C-TS-2030K	Backfilling to Road formation level from Bay 10 to Bay 14	30	04-Dec-15	02-Jan-16			
	S3C-TS-2090C	Bay 15,16 & 17 CWB & Slip Road 3 Wall & OHVD Base Slab	15	02-Oct-15 A	20-Oct-15		Bay 15,16	17 CWB & Slip Road 3 Wall & OHVD Ba
	S3C-TS-2090C	Bay 15,16 & 17 CWB & Slip Road 3 Wall Stem	15	02-Oct-15 A	20-Oct-15	-	Bay 15,16	17 CWB & Slip Road 3 Wall Stem

	Remaining Work	Summa	CEDD CONTRACT NO. HK/2009/01	Date	Revision
	Actual Work	<b>C</b> anina an		15-Sep-15	Program 6H 15 Sep 2015
			Wan Chai Development Phase II - Central-Wan Chai Bypass at HKCEC (Contract 1)	15-Oct-15	Progress Updated on 15 Oct
	Summary Bar			-	
	Critical Remaining Work				
• •	Milestone		WORKS PROGRAMME Rev.4 - 3 Month Programme starting from 15-Oct-15		



## CHUN WO -

	Activity Name	OD	Start	Finish				20	Qtr 4
					бер		Oct		Nov
S3C-TS-20900	Bay 15,16 & 17 CWB Road Barrier	20	05-Nov-15	24-Nov-15					
					_				
S3C-TS-20900	2 Bay 15,16 & 17 Slip Road 3 Road Barrier	14	25-Nov-15	08-Dec-15					L <b>⇒</b> [
		40	45 0 1 45	00.0.1.45		; ; ; ;			
S3C-1S-2090L	D Bay 15,16 & 17 Slip Road 2 OHVD Base Slab	16	15-Oct-15	30-Oct-15				Bay 15,16	8 & 17 Slip Road 2 OHV
S3C-TS-2090F	D Bay 15,16 & 17 Slip Road 2 Road Barrier	14	08-Dec-15	21-Dec-15	-	1			
S3C-TS-2110A	Bay 18, 19 & 20 CWB & Slip Road 2 & Slip Road 3 Base Slab	12	01-Nov-15	12-Nov-15	-				Bay 18, 19 & 20
					_				
S3C-TS-2110B	Removal of 2nd & 3rd layer of struts/wailer at Bay 18, 19 & 20	14	20-Nov-15	04-Dec-15		1			
\$3C-T\$-2110C	Bay 18, 19 & 20 CWB, Slip Road 3 & Slip Road 2 Wall	15	05-Dec-15	19-Dec-15	-				
000-10-21100		15	05-Dec-15	19-Dec-15					
S3C-TS-2110D	Bay 18, 19 & 20 CWB, Slip Road 3 & Slip Road 2 OHVD Base Slab	15	20-Dec-15	03-Jan-16		 			
S3C-TS-2110E	Bay 18, 19 & 20 CWB, Slip Road 3 and Slip Road 2 OHVD Wall Stem & Top Slab	20	04-Jan-16	23-Jan-16					
		47	04.1.40		_				
S3C-1S-2110E	Removal Scaffold at Bay 18 to 20	17	24-Jan-16	09-Feb-16					
S3C-TS-2110F	Bay 18, 19 & 20 CWB, Slip Road 3 and Slip Road 2 Road Barrier	9	10-Feb-16	18-Feb-16	-				
tion 8 of the Works	- Works in Area 6 (Utilities other than Watermains in Fenwick Pier	Street	)						
Sewerage Works			00 1 1 45 4	00.0 + 45					
S8-3010	Planter Reinstatement	30	29-Jul-15 A	22-Oct-15				Planter Reinstateme	nt
S8-3020	Road Reinstatement	21	25-Sep-15 A	22-Oct-15				Road Reinstatemen	t
tion 9 of the Works	- Remaindar of the Works								
	tler.								
Box Culvert Construc	tion					1			
S9-1070	Backfill the Temporary Water Channel from East to West (BG/BI Connection	30	02-Jun-15 A	30-Nov-15		۱ +			
	Point at Water Channel)								
Reprovision of Expo I	Drive East								
		1							
S9-2050	Traffic Aid and Demolition of Remaining Portion of Existing Expo Drive East Bridge	45	30-Jul-15 A	30-Nov-15					
S9-2060	Construction of Retaining Wall Extension to Top of Box Culvert Bay 7	30	17-Jan-16	15-Feb-16					
<b>/aterworks in Area 9</b>			<u> </u>						
								· · · · · · · · · · · · · · · · · · ·	
Abandaned Pipes R	Removal								
<u> </u>	Zer e A4.4 Alter des ed Dines DZ/D0 Desteur Warks	20	44.0+45.4	07 Dec 45					
S9-7090	Zone A4-4 Abandoned Pipes P7/P9 Removal Works	30	14-Oct-15 A	07-Dec-15					
	<u> </u>					1		1	
								- I -	
	Remaining Work Summa			CEDD	CONTRACT NO	HK/2009/01		Da 15-Sep	ate Revision -15 Program 6H 15 Sep
	Actual Work	Wan	Chai Davalar		e II - Central-Wan				
	Summary Bar	vvan	Chai Develop	ment Phase		Chai Dypass	at I INCLU		
	Summary Bar Critical Remaining Work								
					ev.4 - 3 Month Pro				

LEAD	ER JO	DINT VENTURE
		2016
		Qtr 1
45 46 9 47 0		Jan
15,16 & 17 C	ив коао ва	rrier
	Bay 15,16 &	17 Slip Road 3 Road Barrier
ase Slab		
		Bay 15,16 & 17 Slip Road 2 Ro
/B & Slip Road	d 2 & Slip Roa	ad 3 Base Slab
		1
Rem	noval of 2nd &	k 3rd layer of struts/wailer at Bay 18,
		Bay 18, 19 & 20 CWB, Slip Road
	۲	
	-	Bay 18, 19 &
Backfill the	Temporary	Water Channel from East to West (I
	e remporary	
Traffic Aid	and Demoliti	on of Remaining Portion of Existing
	7000 1 4 4 4	endered Direc DZ/DO De service 114/
	∠one A4-4 Ab	oandoned Pipes P7/P9 Removal Wo
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Oct 2015		衲ASK filters: 3-Month (Works),
		3-Month Rolling Prog.
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Milestone

## CHUN WO -

	Activity Name	OD	Start	Finish			2015 Qtr 4
S9-7100	Zone X1-4a Abandoned Pipes P5 Removal Works	14	20-Oct-15*	08-Dec-15	ер	Oct	Nov
39-7100		14	20-001-13	00-Dec-13			
ection 9A of the Work	ks - Landscape Softworks in Area 9						
S9A-1000	Transplanting at Expo Drive East and Convention Avenue Junction	180	15-Oct-15	11-Apr-16			
S9A-2000	Landscape Softworks in Area 9 Footpath	60	15-Oct-15	30-Dec-15			
S9A-3000	Completion of the Landscape Softworks in Area 9	0		30-Dec-15	-		
ection 9B of the Worl	ks - Establishment Works in Area 9						
S9B-1000	Establishment Works at Area 9	365	11-Apr-16	10-Apr-17			
ariation Order No.153	3 - Design and Construct CWB Bypass Tunnel from CH3246 to C	H3278					
Preliminaries							
Major Method State	ement & Design Submission and Approval						
DS-0020	ELS Design Submission	28	15-Oct-15	28-Oct-15			ELS Design Submission
DS-0040	Tunnel Structure Design Submission	28	09-Dec-15	16-Jan-16	-		
MS-0040	Method Statement for Tunnel Excavation in Area 8	7	29-Oct-15	04-Nov-15	-	l	Method Statement for T
MS-0060	Method Statement for Tunnel Construction in Area 8	14	05-Nov-15	18-Nov-15			
Works at Area 8 - C W	B Tunnel, Slip Roads 2 & 3, Works in Area 8						
CWB Tunnelling W							
	lorks (Stage 4: Ch3246 - Ch3278)						
Stage 4 - Pre-bo	red H-pile and Dewatering Works (CH3246 - CH3278)		15 0.1 15				
Stage 4 - Pre-bo		14	15-Oct-15	28-Oct-15			Installation of Surface Pump Wells
Stage 4 - Pre-bo S4-FW-0020	red H-pile and Dewatering Works (CH3246 - CH3278)	14	15-Oct-15	28-Oct-15			Installation of Surface Pump Welk
Stage 4 - Pre-bo S4-FW-0020	Installation of Surface Pump Wells (6 nos)	14	15-Oct-15 26-Jun-15 A	28-Oct-15 12-Nov-15			
Stage 4 - Pre-bo S4-FW-0020 Stage 4 - Excava	Installation of Surface Pump Wells (6 nos) ation Works (CH3246 - CH3278) include Demolition of C2E BH Wall Stage 4 ELS - excavate to approx1.5mPD and installation of 1st layer						
Stage 4 - Pre-bo S4-FW-0020 Stage 4 - Excava S4-EW-0010	Pred H-pile and Dewatering Works (CH3246 - CH3278)         Installation of Surface Pump Wells (6 nos)         ation Works (CH3246 - CH3278) include Demolition of C2E BH Wall         Stage 4 ELS - excavate to approx1.5mPD and installation of 1st layer strut/waling at -0.5mPD (approx. 6700 cu.m)         Stage 4 ELS - excavate to approx5.7mPD and installation of 2nd layer	21	26-Jun-15 A	12-Nov-15			
Stage 4 - Pre-bo           S4-FW-0020           Stage 4 - Excava           S4-EW-0010           S4-EW-0020	Installation of Surface Pump Wells (6 nos) ation Works (CH3246 - CH3278) Include Demolition of C2E BH Wall Stage 4 ELS - excavate to approx1.5mPD and installation of 1st layer strut/waling at -0.5mPD (approx5.7mPD and installation of 2nd layer strut/waling at -4.7mPD (approx600 cu.m) Stage 4 ELS - excavate to approx10mPD and installation of 3rd layer	21	26-Jun-15 A 13-Nov-15	12-Nov-15 04-Dec-15			
Stage 4 - Pre-bo           S4-FW-0020           Stage 4 - Excava           S4-EW-0010           S4-EW-0020           S4-EW-0020           S4-EW-0030           S4-EW-0050	Pred H-pile and Dewatering Works (CH3246 - CH3278)         Installation of Surface Pump Wells (6 nos)         ation Works (CH3246 - CH3278) include Demolition of C2E BH Wall         Stage 4 ELS - excavate to approx1.5mPD and installation of 1st layer strut/waling at -0.5mPD (approx. 6700 cu.m)         Stage 4 ELS - excavate to approx5.7mPD and installation of 2nd layer strut/waling at -4.7mPD (approx. 6600 cu.m)         Stage 4 ELS - excavate to approx10mPD and installation of 3rd layer strut/waling at -9mPD (approx. 6700 cu.m)         Stage 4 ELS - excavate to approx10mPD and installation of 3rd layer strut/waling at -9mPD (approx. 6700 cu.m)         Stage 4 ELS - excavate to formation approx15.3mPD (approx. 10,000	21 21 21 21	26-Jun-15 A 13-Nov-15 05-Dec-15	12-Nov-15 04-Dec-15 26-Dec-15			Installation of Surface Pump Wells
Stage 4 - Pre-bo           S4-FW-0020           Stage 4 - Excava           S4-EW-0010           S4-EW-0020           S4-EW-0020           S4-EW-0030           S4-EW-0050	Pred H-pile and Dewatering Works (CH3246 - CH3278)         Installation of Surface Pump Wells (6 nos)         ation Works (CH3246 - CH3278) include Demolition of C2E BH Wall         Stage 4 ELS - excavate to approx1.5mPD and installation of 1st layer strut/waling at -0.5mPD (approx. 6700 cu.m)         Stage 4 ELS - excavate to approx5.7mPD and installation of 2nd layer strut/waling at -4.7mPD (approx. 6600 cu.m)         Stage 4 ELS - excavate to approx10mPD and installation of 3rd layer strut/waling at -9mPD (approx. 6700 cu.m)         Stage 4 ELS - excavate to approx10mPD and installation of 3rd layer strut/waling at -9mPD (approx. 6700 cu.m)         Stage 4 ELS - excavate to formation approx15.3mPD (approx. 10,000 cu.m)	21 21 21 21	26-Jun-15 A 13-Nov-15 05-Dec-15	12-Nov-15 04-Dec-15 26-Dec-15			
Stage 4 - Pre-bo           S4-FW-0020           Stage 4 - Excava           S4-EW-0010           S4-EW-0020           S4-EW-0020           S4-EW-0030           S4-EW-0050	Pred H-pile and Dewatering Works (CH3246 - CH3278)         Installation of Surface Pump Wells (6 nos)         ation Works (CH3246 - CH3278) include Demolition of C2E BH Wall         Stage 4 ELS - excavate to approx1.5mPD and installation of 1st layer strut/waling at -0.5mPD (approx. 6700 cu.m)         Stage 4 ELS - excavate to approx5.7mPD and installation of 2nd layer strut/waling at -4.7mPD (approx. 6600 cu.m)         Stage 4 ELS - excavate to approx10mPD and installation of 3rd layer strut/waling at -9mPD (approx. 6700 cu.m)         Stage 4 ELS - excavate to approx10mPD and installation of 3rd layer strut/waling at -9mPD (approx. 6700 cu.m)         Stage 4 ELS - excavate to formation approx15.3mPD (approx. 10,000 cu.m)	21 21 21 20	26-Jun-15 A 13-Nov-15 05-Dec-15	12-Nov-15 04-Dec-15 26-Dec-15 16-Jan-16	CONTRACT NO. HK/200	09/01	

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	Stage 4 E	ELS - exc	cavate to app	rox.	-5.7mPD a	and insta
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A	Activity ID		Activity Name	OD	Start	Finish	2015				
										Qtr 4	
							ер	(	Oct	Nov	
		S4-TS-0005	Pile Head Fabrication	15	11-Jan-16	24-Jan-16					
		S4-TS-0010	Bay 21 Base Slab	10	25-Jan-16	03-Feb-16					
		S4-TS-0020	Bay 22 Base Slab	10	28-Jan-16	06-Feb-16	-				
		S4-TS-0030	Removal of 2nd and 3rd layer of Strut/Waling	28	07-Feb-16	06-Mar-16	-				
		S4-TS-0040	Bay 21 & 22 Wall	15	07-Mar-16	22-Mar-16					
		S4-TS-0050	Bay 21 & 22 Wall & OHVD Base Slab	15	23-Mar-16	06-Apr-16	-				
		S4-TS-0060	Bay 21 & 22 OHVD Wall Stem and Top Slab	15	07-Apr-16	22-Apr-16	-				

Remaining Work	Summa	CEDD CONTRACT NO. HK/2009/01	Date	Revision
Actual Work			15-Sep-15	Program 6H 15 Sep 2015
		Wan Chai Development Phase II - Central-Wan Chai Bypass at HKCEC (Contract 1)	15-Oct-15	Progress Updated on 15 O
Summary Bar		wan char Development i hase ii - Central-Wan char Dypass at intele (Contract i)		
Critical Remaining Work		WORKS REACEANINE Roy 4 2 Month Brogramme starting from 15 Oct 15		
♦ Milestone		WORKS PROGRAMME Rev.4 - 3 Month Programme starting from 15-Oct-15		
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ity ID Activi	ity Name	lemainin Duratior		Finish	August	2015	
	E to Nov 2015				09 16	23 30	06
MRP - Aug 201							
	ment / Shop Drawings .andscape Deck Structure - Submission	28	20-Aug-15	16-Sep-15			
	Landscape Deck Structure - Submission	28	17-Sep-15	14-Oct-15			
	Landscape Deck Structure - Els Neview & Comment	28	15-Oct-15	14-00-15 11-Nov-15			
	Noise Semi Enclosure - Submission	54	20-Jul-15 A	12-Oct-15			
	Noise Semi Enclosure - ER Review / Comment	28	13-Oct-15	09-Nov-15			
	Approach Ramp - ER Approval	14	01-Feb-15 A	02-Sep-15		MS Approach Rar	mp - ER Approval
	EVB Basement & Mezzanine Construction - No Adverse Comment	0	20-Jul-15 A	02-Aug-15 A	sement & Mezzanine Construction - No Adverse Com	ment	
	or Connection of EVB and EVA - Submission	10	10-Mar-15 A	29-Aug-15		MS for Connection of EVB and EV	/A - Submission
0230-2340 MS fo	or Connection of EVB and EVA - ER Review & Comment	12	30-Aug-15	10-Sep-15			MS for C
0230-2350 MS fe	or Connection of EVB and EVA - Resubmission	6	11-Sep-15	16-Sep-15	[		
0230-2360 MS fe	or Connection of EVB and EVA - ER No Adverse Comment	10	17-Sep-15	26-Sep-15*			
0230-2370 MS fe	or Contruction of New IEC Westbound Bridge - Submission	0	20-Jul-15 A	29-Jul-15 A	IEC Westbound Bridge - Submission		
0230-2380 MS fe	or Contruction of New IEC Westbound Bridge - ER Review & Comment	0	30-Jul-15 A	10-Aug-15 A	MS for Contruction of New IEC W	estbound Bridge - ER Review & Comment	
0230-2390 MS f	or Contruction of New IEC Westbound Bridge - Resubmission	0	11-Aug-15 A	19-Aug-15 A	N	S for Contruction of New IEC Westbound Bridge - Resubmission	
0230-2400 MS fe	or Contruction of New IEC Westbound Bridge - ER No Adverse Comment	0	20-Jul-15 A	29-Jul-15 A	IEC Westbound Bridge - ER No Adverse Comment		
	Design and Build Items						
	IK Permanent Carpark Design - ER/HGHK Review and Comment	50	20-Aug-15	08-Oct-15			
	IK Permanent Carpark Design - Resubmission	50	09-Oct-15	27-Nov-15			
	Iscaping Design - Submission	90	20-Aug-15*	17-Nov-15			
	en Roof & Wall Minimum 2 years Establishment	501	18-Apr-15 A	19-Apr-17			
	ent/Beam Off-site Precasting						
	ast Beam Bridge C1 2122-E	0	23-Jun-15 A	31-Jul-15 A	С1 2122-Е		
	ast Beam Bridge C1 2122-F	0	11-Jul-15 A	07-Aug-15 A	Precast Beam Bridge C1 2122-F	dge E E3E2-A	
	ast Beam Bridge E E3E2-A	0	10-May-15 A	15-Aug-15 A	Precast Beam Br	dge E E3E2-A • 14	
	ast Beam Bridge F5 - 14	0	01-Jun-15 A	13-Aug-15 A	Precast Beam Bridge F5	- 14	
	ast Beam Bridge F5 - 15	0	08-Jun-15 A	31-Jul-15 A	F5 - 15		
	ast Beam Bridge F5 - 03 ast Beam Bridge F5 - 04	0	23-Jun-15 A 30-Jun-15 A	27-Jul-15 A 27-Jul-15 A			
	ast Beam Bridge F5 - 04				Dramat Daam Dridge EE	- 05	
	ast Beam Bridge F5 - 05	0	10-Jul-15 A 15-Jul-15 A	13-Aug-15 A 07-Aug-15 A	Precast Beam Bridge F5 - 06	- 05	
	ast Beam Bridge F5 - 00	0	22-Jul-15 A	14-Aug-15 A		F5 - 07	
	ast Beam Bridge F5 - 08	0	22-Jul-15 A 28-Jul-15 A	16-Aug-15 A	Precast Beam Bridge	F 3 - 07	
	ast Beam Bridge F5 - 09	0	04-Aug-15 A	14-Aug-15 A	Precast Beam Bridge		
	ast Beam Bridge F5 - 10	0	04-Aug-15 A 08-Aug-15 A	16-Aug-15 A		9 Bridge F5 - 10	
	pletion of Beam Off-Site Pre casting	0	00-Aug-13 A	16-Aug-15 A		Beam Off-Site Pre casting	
	ge F1C Pier 36 T-span Segment Off-site Casting (13 nos.)	17	10-Jun-15 A	08-Sep-15			Bridge F1C Pier
	ge F1C Pier 37 T-span Segment Off-site Casting (11 nos.)	3	16-Jul-15 A	22-Aug-15		Bridge F1C Pier 37 T-span Segment Off-site Casting (11 nos	
	ge F1C Abut D12 End-span Segment Off-site Casting (7 nos.)	0	21-Jul-15 A	12-Aug-15 A	Bridge E1C Abut D12 End-sr	an Segment Off-site Casting (7 nos.)	·) 
	ge F1C Pier 38 End-span Segment Off-site Casting (6 nos.)	6	18-Jun-15 A	26-Aug-15		Bridge F1C Pier 38 End-span Segment Off-si	te Casting (6 nos )
	ge F3C Pier 41 T-span Segment Off-site Casting (13 nos.)	29	10-Apr-15 A	22-Sep-15			
	ge F3C Pier 42 T-span Segment Off-site Casting (11 nos.)	15	18-Apr-15 A	05-Sep-15		Bridae	F3C Pier 42 T-span S
	ge F3C Pier 40 End-span Segment Off-site Casting (5 nos.)	16	10-Apr-15 A	07-Sep-15			Bridge F3C Pier 40 E
	ge F3C Pier 43 End-span Segment Off-site Casting (6 nos.)	19	22-May-15 A	10-Sep-15			Bridge F
	ge F1B2 - Abut D12 Segment - 6 nos. (S2)	19	05-Sep-15	29-Sep-15			
	ge F1B2 - Pier F1B2 Segment - 13 nos. (S1)	40	11-Sep-15	30-Oct-15	1		
	ge F1B2 - Pier F3B2 Segment - 6 nos. (S2)	19	07-Oct-15	30-Oct-15			
	ge F2B - Pier F3B2 Segment - 5 nos. (S2)	16	06-Nov-15	25-Nov-15			
	Delivery of Noise Enclosure						
	loise Enclosure Main + Sub Frames Fab / Del	105	01-Jun-15 A	23-Dec-15			
0260-5010 Int. N	loise Enclosure Noise Panel Fab / Del	122	19-Jan-15 A	14-Jan-16			
5 - SECTION 2 8	& 2A OF THE WORKS						
	Tunnel Ch 4855-4932 (APS Footprint)						
Remaining					Contract HY/2009/	19	
Actual Leve			Three	Montha			
Actual Worl			inree	viontns	Rolling Programme (20	Aug to 13 1107 2013 )	
Remaining	Work						
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September 13	20	October 27
10	20	21
MS Landso	ape Deck Structure - Subm	nission
	A - ER Review & Commen	
MS for Cor	nnection of EVB and EVA -	Resubmission
		MS for Connection of E
T-span Segment Off-s	ite Casting (13 nos.)	
	Bridae F3C Pie	er 41 T-span Segment O
ament Off-site Casting		
gment Off-site Casting (		
d-span Segment Off-sit		
Pier 43 End-span Seg	ment Off-site Casting (6 no	s.)
		Bridge F1B
Pa	ge 1 of 7	
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ty ID	Activity Name	lemainin Duration		Finish	August	2015
					09 16	23 30 06
05.1.1 - D-Wall 0511-1600	D-Wall Interface Coring	0	16-May-15 A	25-Jul-15 A		
0511-1620	D-Wall Grouting/Pressure Grouting	0	26-Jul-15 A	31-Jul-15 A	sure Grouting	
	Tunnel Structure	0	20-30-13 A	31-30-13 A		
0513-3060	APS Basement (Bay 21-South) - Staircase Landing 8 > Staircase Landing 12	11	07-Jul-15 A	01-Sep-15		APS Basement (Bay 21-South) - Staircase La
0513-3080	Tunnel Level - South Side Additional Beam at Bay 21	5	20-Aug-15	25-Aug-15		Tunnel Level - South Side Additional Beam at Bay 21
0513-3100	Reinstate Temporary Opening of Base Slab > Bay 18	9	22-Aug-15	01-Sep-15		Reinstate Temporary Opening of Base Slab >
0513-3105	Reinstate Temporary Opening of OHVD & Roof Slab > Bay 18	6	22-Aug-15	28-Aug-15*		Reinstate Temporary Opening of OHVD & Roof Slab > Bay 1
0513-3140	APS Basement (Bay 21-South) - Partition wall	0	07-Apr-15 A	31-Jul-15 A	21-South) - Partition wall	
05.1.4 - Tunne		-				
0514-2040	Weak Seam Rectification works for sub-standard D-Wall	0	10-Mar-15 A	31-Jul-15 A	ion works for sub-standard D-Wall	
05.1.5 - EVB S	ub-structure & Tunnel					
0515-1060	Tunnel Roadside/Profile Barrier and Cable Trough Portion VIIIB & IXB	0	16-Jun-15 A	31-Jul-15 A	ile Barrier and Cable Trough Portion VIIIB & IXB	
0515-1061	Roadside Barrier - Service Trough/Steel Angle/Precast Concrete Cover	0	20-Jul-15 A	31-Jul-15 A	rvice Trough/Steel Angle/Precast Concrete Cover	
0515-1120	EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 1A: GL1-2/A-E, 2-3/B-E, 3-6/C	4	13-Jul-15 A	24-Aug-15		EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 1A: GL1-2/A-E, 2-3/B-
0515-1140	EVB Basement - Col/Partition Wall (Fwk) > Zone 1A to Mezz (-1.40) Soffit	7	03-Aug-15 A	27-Aug-15		EVB Basement - Col/Partition Wall (Fwk) > Zone 1A to Mezz (-1.4
0515-1160	EVB Basement - Col/Partition Wall (Conc) > Zone 1A to Mezz (-1.40) Soffit	2	28-Aug-15	29-Aug-15		EVB Basement - Col/Partition Wall (Conc) > Zone 1A to N
0515-1180	EVB Basement - Mezz Slab & Beam (Lv -1.4) - (Falsework/Fwk) > Zone 1A	10	17-Aug-15 A	10-Sep-15		EVB Base
0515-1200	EVB Basement - Mezz Slab & Beam (Lv -1.4) - (Reb. Fix) > Zone 1A	6	16-Sep-15 A	17-Sep-15		
0515-1220	EVB Basement - Mezz Slab & Beam (Lv -1.4) - (Conc) > Zone 1A	2	18-Sep-15	19-Sep-15		
0515-1240	EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 2A: GL1-6/A-D (incl ST-04)	14	18-Sep-15	06-Oct-15		
0515-1260	EVB Basement - Col/Partition Wall (Fwk) > Zone 2A to Roof Soffit	14	03-Oct-15	19-Oct-15		
0515-1280	EVB Basement - Col/Partition Wall (Conc) > Zone 2A to Roof Soffit	2	20-Oct-15	22-Oct-15		
0515-1300	EVB Basement - Mezz Slab & Beam (Lv +2.65) - (Falsework/Fwk) > Zone 2A	6	23-Oct-15	29-Oct-15		
0515-1320	EVB Basement - Mezz Slab & Beam (Lv +2.65) - (Reb. Fix) > Zone 2A	3	30-Oct-15	02-Nov-15		
0515-1340	EVB Basement - Mezz Slab & Beam (Lv +2.65) - (Conc) > Zone 2A	1	03-Nov-15	03-Nov-15		
0515-1360	EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 3A: GL1-6/E-H	6	12-Aug-15 A	13-Oct-15		
0515-1380	EVB Basement - Col/Partition Wall (Fwk) > Zone 3A to Roof Soffit	8	17-Aug-15 A	29-Oct-15		
0515-1400	EVB Basement - Col/Partition Wall (Conc) > Zone 3A to Roof Soffit	2	28-Oct-15	29-Oct-15		
0515-1420	EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 4A: GL1-6/H-K	6	06-Aug-15 A	01-Sep-15		EVB Basement - Col/Partition Wall (Reb. Fix)
0515-1440	EVB Basement - Col/Partition Wall (Fwk) > Zone 4A to Roof Soffit	9	12-Aug-15 A	08-Sep-15		EVB Basement - C
0515-1460	EVB Basement - Col/Partition Wall (Conc) > Zone 4A to Roof Soffit	2	09-Sep-15	10-Sep-15		EVB Base
0515-1480	EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 5A : GL1-6/K-O (ind ST-03)	3	07-Jul-15 A	22-Aug-15		EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 5A : GL1-6/K-O (incl ST-03)
0515-1500	EVB Basement - Col/Partition Wall (Fwk) > Zone 5A to Roof Soffit	5	11-Jul-15 A	25-Aug-15		EVB Basement - Col/Partition Wall (Fwk) > Zone 5A to Roof Soffit
0515-1520	EVB Basement - Col/Partition Wall (Conc) > Zone 5A to Roof Soffit	1	30-Jul-15 A	26-Aug-15		EVB Basement - Col/Partition Wall (Conc) > Zone 5A to Roof Soffit
0515-1540	EVB Basement - Roof Slab (Falsework/Fwk) > Zone 5B : GL1-6/K-O	21	08-Sep-15	03-Oct-15		
0515-1560	EVB Basement - Roof Slab (Reb Fix) > Zone 5B : GL1-6/K-O	14	02-Oct-15	17-Oct-15		
0515-1580	EVB Basement - Roof Slab (Conc) > Zone 5B : GL1-6/K-O	2	19-Oct-15	20-Oct-15		
0515-1600	EVB Basement - Roof Slab (Falsework/Fwk) > Zone 4B : GL1-6/H-K	21	05-Oct-15	29-Oct-15		
0515-1620	EVB Basement - Roof Slab (Reb Fix) > Zone 4B : GL1-6/H-K	14	28-Oct-15	12-Nov-15		
0515-1640	EVB Basement - Roof Slab (Conc) > Zone 4B : GL1-6/H-K	2	13-Nov-15	14-Nov-15		
0515-1660	EVB Basement - Roof Slab (Falsework/Fwk) > Zone 3B : GL1-6/E-H	21	30-Oct-15	23-Nov-15		
	over Tunnel Ch 4932-5149	21		20110110		
	& Miscellaneous Works					
0525-1240	Remedial Works - Bay 9 OHVD - WestBound	0	26-Jul-15 A	31-Jul-15 A	y9OHVD - WestBound	
0525-1260	Remedial Works - Concrete Repair Works / Trim overbreak Concrete Etc, Honeycoms	0	09-Mar-15 A	31-Jul-15 A	ncrete Repair Works / Trim overbreak Concrete Etc, H	bneycoms/laitance, etc.
0525-1280	Remedial Works - Sealing off Water Leakage at D-Wall	0	01-Jun-15 A	31-Jul-15 A	aling off Water Leakage at D-Wall	
)6 - SECTIO	N 3 OF THE WORKS					
	und - Pier 29-34					
0610-1380	Construct W/B Bridge Pier 29 > Pile Cap	0	11-Jul-15 A	17-Aug-15 A	Construct	W/B Bridge Pier 29 > Pile Cap
0610-1400	Construct W/B Bridge Pier 29 > Column	5	18-Aug-15 A	25-Aug-15		Construct W/B Bridge Pier 29 > Column
0610-1420	Construct W/B Bridge Pier 29 > Rebar Fixing - Crosshead	10	26-Aug-15	05-Sep-15		Construct W/B Bridge Pier 29
0610-1440	Construct W/B Bridge Pier 29 > Formworks + Concreting - Crosshead	4	07-Sep-15	10-Sep-15		
0610-1460	Construct W/B Bridge Pier 29 > Bearring	4	11-Sep-15	15-Sep-15		
0610-1480	Construct W/B Bridge Pier 30 > Pile Cap	0	06-Jul-15 A	01-Aug-15 A	idge Pier 30 > Pile Cap	
				5. Aug 10A		

<ul> <li>Remaining Level of Effort  <ul> <li>Milestone</li> </ul> </li> <li>Actual Level of Effort</li> <li>Actual Work</li> <li>Remaining Work</li> <li>Critical Remaining Work</li> </ul>	Contract HY/2009/19 Three Months Rolling Programme ( 20 Aug to 19 Nov 2015 )	
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September		October
13	20	27
nding 8 > Staircase La	nding 12	
Bay 18		
}		
E, 3-6/C-F, 4-6/F-J 0) Soffit		
lozz ( 1 40) Soffit		
nent - Mezz Slab & Be	eam (Lv -1.4) - (Falsework/F Basement - Mezz Slab & Bea I EVB Basement - Mezz Sla	wk) > Zone 1A
EVB I	Basement - Mezz Slab & Bea	am (Lv -1.4) - (Reb. Fix)
·····	EVB Basement - Mezz Sla	ıb & Beam (Lv -1.4) - (Co
· · · · · · · · · · · · · · · · · · ·		
> Zone 4A : GL1-6/H-	K ) > Zone 4A to Roof Soffit	
	all (Conc) > Zone 4A to Roof Sofit	Soffit
> Rebar Fixing - Cros		
V/B Bridge Pier 29 > I	Formworks + Concreting - C B Bridge Pier 29 > Bearring	rosshead

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ivity ID	Activity Name	lemainin Duratior		Finish	August	2015 S
0010 4500	Construct W/D Deiden Dies 20 - Column	0	02 445 45 4	10 Aug 15 A	09 16	
0610-1500	Construct W/B Bridge Pier 30 > Column	0	02-Aug-15 A	10-Aug-15 A	Construct W/B Bridge Pier 30 > C	
0610-1520	Construct W/B Bridge Pier 30 > Rebar Fixing - Crosshead	9	19-Aug-15 A	29-Aug-15		Construct W/B Bridge Pier 30 > Rebar Fixing - Crosshead
0610-1540	Construct W/B Bridge Pier 30 > Formworks + Concreting - Crosshead	4	31-Aug-15	03-Sep-15		Construct W/B Bridge Pier 30 > Formwor
0610-1560	Construct W/B Bridge Pier 30 > Bearring	6	04-Sep-15	10-Sep-15		Construct W/E
0610-1580	Construct W/B Bridge Pier 31 > Pile Cap	0	08-Jul-15 A	08-Aug-15 A	Construct W/B Bridge Pier 31 > Pile Cap	
0610-1600	Construct W/B Bridge Pier 31 > Column	0	09-Aug-15 A	18-Aug-15 A	Cons	ruct W/B Bridge Pier 31 > Column
0610-1620	Construct W/B Bridge Pier 31 > Rebar Fixing - Crosshead	9	19-Aug-15 A	29-Aug-15		Construct W/B Bridge Pier 31 > Rebar Fixing - Crosshead
0610-1640	Construct W/B Bridge Pier 31 > Formworks + Concreting - Crosshead	4	31-Aug-15	03-Sep-15		Construct W/B Bridge Pier 31 > Formwor
0610-1660	Construct W/B Bridge Pier 31 > Bearring	5	04-Sep-15	09-Sep-15		Construct W/B Bri
0610-1680	Construct W/B Bridge Pier 32 > Pile Cap	0	14-Jul-15 A	01-Aug-15 A	dge Pier 32 > Pile Cap	
0610-1700	Construct W/B Bridge Pier 32 > Column	0	02-Aug-15 A	14-Aug-15 A	Construct W/B Bridge	Pier 32 > Column
0610-1720	Construct W/B Bridge Pier 32 > Rebar Fixing - Crosshead	10	19-Aug-15 A	31-Aug-15		Construct W/B Bridge Pier 32 > Rebar Fixing - Cross
0610-1740	Construct W/B Bridge Pier 32 > Formworks + Concreting - Crosshead	4	01-Sep-15	04-Sep-15		Construct W/B Bridge Pier 32 > Form
0610-1760	Construct W/B Bridge Pier 32 > Bearring	5	05-Sep-15	10-Sep-15		Construct W/E
0610-1780	Construct W/B Bridge Pier 33 > Pile Cap	0	28-Jul-15 A	10-Aug-15 A	Construct W/B Bridge Pier 33 > Pile	Сар
0610-1800	Construct W/B Bridge Pier 33 > Column	0	11-Aug-15 A	14-Aug-15 A	Construct W/B Bridge	Pier 33 > Column
0610-1820	Construct W/B Bridge Pier 33 > Rebar Fixing - Crosshead	10	20-Aug-15	31-Aug-15		Construct W/B Bridge Pier 33 > Rebar Fixing - Cross
0610-1840	Construct W/B Bridge Pier 33 > Formworks + Concreting - Crosshead	4	01-Sep-15	04-Sep-15		Construct W/B Bridge Pier 33 > Form
0610-1860	Construct W/B Bridge Pier 33 > Bearring	5	05-Sep-15	10-Sep-15		Construct W/E
0610-1880	W/B Bridge Pier 34 - Tie Beam > Breaking + Excav + Blinding	8	12-Nov-15	20-Nov-15		
0610-1920	Construct W/B Bridge Pier 34 Drilling of Starter Bars for Pier/Column	14	12-Nov-15	27-Nov-15		
06.3 - Admin				2		
0630-1100	Grd. Beam - (GL > K-N) - Removal of Existing Sheet Piles	6	20-Aug-15	26-Aug-15		Grd. Beam - (GL > K-N) - Removal of Existing Sheet Piles
0630-1101	Grd. Beam - (GL > K-N) - Excavate to formation level + Blinding Layer Casting	5	22-Aug-15	27-Aug-15		Grd. Beam - (GL > K-N) - Excavate to formation level + Blinding Laye
0630-1120	Grd. Beam - (GL > K-N) - Install Capping Plate	4	28-Aug-15	01-Sep-15		Grd. Beam - (GL > K-N) - Install Capping Plate
0630-1140	Grd. Beam - (GL > K-N) - Rebar Fixing for Ground Beam	7	31-Aug-15	07-Sep-15		Grd. Beam - (GL > K-N) -
0630-1140	Grd. Beam - (GL > K-N) - Erect Formworks for Ground Beam	4	05-Sep-15	09-Sep-15		Grd. Beam - (GL:
				· ·		
0630-1180	Grd. Beam - (GL > K-N) - Cast Concrete for Ground Beam		10-Sep-15	10-Sep-15		Grd. Beam - (
0630-1200	Grd. Beam - (GL > K-N) - Formworks Removal	1	11-Sep-15	11-Sep-15		Grd. Bean
0630-1600	Grd. Beam - (GL > D-G) - Removal of Existing Sheet Piles	1	10-Aug-15 A	20-Aug-15		Grd. Beam - (GL > D-G) - Removal of Existing Sheet Piles
0630-1620	Grd. Beam - (GL > D-G) - Excavate to formation level + Blinding Layer Casting	5	21-Aug-15	26-Aug-15		Grd. Beam - (GL > D-G) - Excavate to formation level + Blinding Layer C
0630-1640	Grd. Beam - (GL > D-G) - Install Capping Plate	4	26-Aug-15	29-Aug-15		Grd. Beam - (GL > D-G) - Install Capping Plate
0630-1660	Grd. Beam - (GL > D-G) - Rebar Fixing for Ground Beam	7	28-Aug-15	04-Sep-15		Grd. Beam - (GL > D-G) - Rebar Fixi
0630-1700	Grd. Beam - (GL > D-G) - Erect Formworks for Ground Beam	4	05-Sep-15	09-Sep-15		Grd. Beam - (GL :
0630-1720	Grd. Beam - (GL > D-G) - Cast Concrete for Ground Beam	1	10-Sep-15	10-Sep-15		🔲 Grd. Beam - (
0630-1740	Grd. Beam - (GL > D-G) - Formworks Removal	1	11-Sep-15	11-Sep-15		Grd. Bear
0630-2020	Grd. Beam - (GL > B-D) - Removal of Existing Sheet Piles	1	18-Aug-15 A	20-Aug-15		Grd. Beam - (GL > B-D) - Removal of Existing Sheet Piles
0630-2021	Grd. Beam - (GL > B-D) - Excavate to formation level + Blinding Layer Casting	6	20-Aug-15	26-Aug-15		Grd. Beam - (GL > B-D) - Excavate to formation level + Blinding Layer Ca
0630-2040	Grd. Beam - (GL > B-D) - Install Capping Plate	4	27-Aug-15	31-Aug-15		Grd. Beam - (GL > B-D) - Install Capping Plate
0630-2080	Grd. Beam - (GL > B-D) - Rebar Fixing for Ground Beam	7	02-Sep-15	09-Sep-15		Grd. Beam - (GL
0630-2100	Grd. Beam - (GL > B-D) - Erect Formworks for Ground Beam	4	09-Sep-15	12-Sep-15		Grd. B
0630-2120	Grd. Beam - (GL > B-D) - Cast Concrete for Ground Beam	1	14-Sep-15	14-Sep-15		
0630-2140	Grd. Beam - (GL > B-D) - Formworks Removal	1	15-Sep-15	15-Sep-15		
A1000	Construction of pile cap for PC21	15	22-Oct-15	07-Nov-15		
A1010	Construction of pile cap for PC22	15	30-Oct-15	16-Nov-15		
A1020	Install underground drainage at Portion VB	12	27-Aug-15	09-Sep-15		Install underground
	DN 5 WORK		-			¥
	ng Wall 'F' Substructure					
0810-1640	Retaining Wall F > Pile Testing & prep for Caps Const	5	02-Oct-15*	07-Oct-15		
0810-1650	Retaining Wall F > Temp Excav Support/Open cut Excav works	21	08-Oct-15*	02-Nov-15		
0810-1660	Retaining Wall F > Excavation Works for Pile caps	25	19-Oct-15	17-Nov-15		
0810-1670	Construction of pile cap for Retaining Wall F @ C4-13	15	22-Oct-15	07-Nov-15		
0810-1680	Construction of pile cap for Retaining Wall F @ C4-14/C15-11	15	31-Oct-15	17-Nov-15		
0810-1700	Construction of pile cap for Retaining Wall F @ C5-12	15	10-Nov-15	26-Nov-15		
0010 1700	contraction of pilo dup for reduning while 1 @ 00 12	10		20110110		

Remaining Level of Effort       ♦ ♦ Milestone         Actual Level of Effort         Actual Work	Contract HY/2009/19 Three Months Rolling Programme ( 20 Aug to 19 Nov 2015 )	
Critical Remaining Work		

September		October
13	20	27
ad		
mworks + Concreting - Ci	osshead	
t W/B Bridge Pier 30 > B		
·····	·····	
ad		
nworks + Concreting - C		
B Bridge Pier 31 > Bearr	ing	
Crosshead		
Formworks + Concreting	- Crosshead	
t W/B Bridge Pier 32 > B	earring	
Crosshead		
	Croopbood	
Formworks + Concreting		
t W/B Bridge Pier 33 > B	earring	
Layer Casting		
late		
(-N) - Rebar Fixing for G	round Beam	
(GL > K-N) - Erect Form	works for Ground Beam	
m - (GL > K-N) - Cast C	oncrete for Ground Beam	
Beam - (GL > K-N) - For	mworks Removal	
yer Casting		
r Fixing for Ground Bear	n	
(GL > D-G) - Erect Form	works for Ground Beam	
m - (GL > D-G) - Cast C	oncrete for Ground Beam	
Beam - (GL > D-G) - Fo	rmworks Removal	
/er Casting		
,		
	ng for Ground Poom	
(GL > B-D) - Rebar Fixi		
ord. Beam - (GL > B-D)	<ul> <li>Erect Formworks for Grou</li> <li>B-D) - Cast Concrete for</li> </ul>	Ind Beam
🔲 Grd. Beam - (0	GL > B-D) - Formworks Re	emoval
round drainage at Portio	n VB	

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ity ID	Activity Name	lemainin Duration		Finish	August		2015
	N 6 OF THE WORKS				09 16	23	30 06
	und - Pier 26-27						
0920-1080	Pier 27 Prepare C.J. and Modify Tie Beam	18	20-Aug-15	09-Sep-15			Pier 27 Prec
0920-1100	Pier 27 Construct Pier/Column	18	10-Sep-15	02-Oct-15			· · · · · · · · · · · · · · · · ·
0920-1120	Pier 27 Construct Crosshead	24	03-Oct-15	31-Oct-15			
0920-1140	Pier 27 Install Bearing	9	02-Nov-15	11-Nov-15			
0920-1140	Pier 26 Prepare C.J. + Drill in Re-bar + Modify Pilecap	18	20-Aug-15	09-Sep-15			Diar 26 Prep
0920-1180	Pier 26 Construct Pier/Column	18	10-Sep-15	03-Sep-15 02-Oct-15			
0920-1180	Pier 26 Construct Crosshead	24	03-Oct-15	31-Oct-15			
0920-1220	Pier 26 Install Bearing	9	02-Nov-15	11-Nov-15			
	N X OF THE WORKS						
	Deck Demolition						
10410-1320	ng W/B Bridge (Part 1) Excavate + Demolish W/B Bridge Pier 33 > Pile Cap	0	14-Jul-15 A	27-Jul-15 A	33 > Pile Cap		
10410-1440	Demolish W/B Bridge Pier 27 > Column > by Crane C	0	19-Jul-15 A	23-Jul-15 A			
10410-1480	Demolish W/B Bridge Deck Pier 25-26 (7 beams) > by Crane B & C	0	23-Jul-15 A	25-Jul-15 A	ms) > by Crane B & C		
10410-1500	Demolish W/B Bridge Pier 26 > Column > by Crane C	0	25-Jul-15 A	30-Jul-15 A	26 > Column > by Crane C Bridge Deck Pier 24-25		
10410-1520	Saw Cutting W/B Bridge Deck Pier 24-25	0	30-Jul-15 A	01-Aug-15 A			
10410-1540	Demolish W/B Bridge Deck Pier 24-25 (7 beams) > by Crane B & C	0	31-Jul-15 A	03-Aug-15 A	W/B Bridge Deck Pier 24-25 (7 beams) > by Crane B	& C 	
10410-1560	Demolish W/B Bridge Pier 25 > Column > by Crane C	0	03-Aug-15 A	06-Aug-15 A	Demolish W/B Bridge Pier 25 > Column > by Crane	C	
10410-1580	Saw Cutting W/B Bridge Deck Pier 23-24	0	04-Aug-15 A	07-Aug-15 A	Saw Cutting W/B Bridge Deck Pier 23-24		
10410-1600	Demolish W/B Bridge Deck Pier 23-24 (7 beams) > by Crane B & C	0	06-Aug-15 A	10-Aug-15 A	Demolish W/B Bridge Deck Pier 23-2		
10410-1620	Demolish W/B Bridge Pier 24 > Column > by Crane C	0	10-Aug-15 A	15-Aug-15 A		dge Pier 24 > Column > by Crane C	
10410-1640	Saw Cutting W/B Bridge Deck Pier 22-23	0	13-Aug-15 A	16-Aug-15 A	Saw Cutting	V/B Bridge Deck Pier 22-23	
10410-1660	Demolish W/B Bridge Deck Pier 22-23 (7 beams) > by Crane B & C	0	15-Aug-15 A	19-Aug-15 A	D	emolish W/B Bridge Deck Pier 22-23 (7 bear	ns) > by Crane B & C
10410-1680	Demolish W/B Bridge Pier 23 > Column > by Crane C	5	20-Aug-15	25-Aug-15		Demolish W/B Bridg	e Pier 23 > Column > by Crane C
10410-1700	Saw Cutting W/B Bridge Deck Pier 21-22	3	19-Aug-15 A	22-Aug-15		Saw Cutting W/B Bridge Deck F	'ier 21-22
10410-1701	Dem. W/B Bridge Deck Pier 21-22 (1 beam) w/ time constraint start up to 4Pm > by (	1	24-Aug-15	24-Aug-15		Dem. W/B Bridge Deck	Pier 21-22 (1 beam) w/ time constraint start up to 4
0410-1720	Demolish W/B Bridge Deck Pier 21-22 (5 beams) > by Crane B & C	3	25-Aug-15	27-Aug-15		Demolish W	/B Bridge Deck Pier 21-22 (5 beams) > by Crane B
10410-1740	Demolish W/B Bridge Pier 22 > Column > by Crane C	5	28-Aug-15	02-Sep-15			Demolish W/B Bridge Pier 22 > Column :
10410-1741	Saw Cutting W/B Bridge Deck Pier 20-21	2	28-Aug-15	29-Aug-15		Saw	Cutting W/B Bridge Deck Pier 20-21
10410-1742	Dem. W/B Bridge Deck Pier 20-21 (1 beam) w/ time constraint start up to 4Pm > by (	2	31-Aug-15	01-Sep-15		]	Dem. W/B Bridge Deck Pier 20-21 (1 beam)
10410-1743	Demolish W/B Bridge Deck Pier 20-21 (2 beams) > by Crane B & C	1	02-Sep-15	02-Sep-15			Demolish W/B Bridge Deck Pier 20-21 (2
10410-1743.1	Cutting of W/B Bridge Crosshead Wing at Pier 21 for Modification	2	03-Sep-15	04-Sep-15			Cutting of W/B Bridge Crosshead
10410-1744	Demolish W/B Bridge Deck Pier 19-20 (2 beams) > Insatall Scaffolldings to Support B	5	28-Aug-15	02-Sep-15			Demolish W/B Bridge Deck Pier 19-20 (2
10410-1745	Saw Cutting W/B Bridge Deck Pier 19-20 @ 2 Beams into 8Pcs(1x4X2)	4	03-Sep-15	07-Sep-15			Saw Cutting W/B Brid
10410-1746	Dem. W/B Bridge Deck Pier 19-20 (1 beam) w/ time constraint start up to 4Pm > by (	2	05-Sep-15	07-Sep-15			Dem. W/B Bridge De
10410-1747	Demolish W/B Bridge Deck Pier 19-20 (1 beam) > by Crane B	1	08-Sep-15	08-Sep-15			Demolish W/B Br
10410-1747.1		2	09-Sep-15	10-Sep-15			Cutting of
10410-1747.5	Demolish W/B Bridge Deck Pier 17-18 (2 beams) > Insatall Scaffolldings to Support B	5	02-Sep-15	07-Sep-15			Demolish W/B Bridge
10410-1748	Saw Cutting W/B Bridge Deck Pier 17-18 @ 2 Beams into 8Pcs(1x4X2)	4	08-Sep-15	11-Sep-15			Saw (
10410-1749	Dem. W/B Bridge Deck Pier 17-18 (1 beam) > by Crane B	1	11-Sep-15	11-Sep-15			Dem.
10410-1750	Demolish W/B Bridge Deck Pier 17-18 (1 beam) > by Crane B	1	12-Sep-15	12-Sep-15			<b>D</b> D
10410-1751	Demolish W/B Bridge Deck Pier 18-19 (2 beams) > Construct Footing for Shoring of E	5	24-Aug-15	28-Aug-15		Demolist	n W/B Bridge Deck Pier 18-19 (2 beams) > Constru
10410-1752	Demolish W/B Bridge Deck Pier 18-19 (2 beams) > Install Shoring + Fixing to hold Be	5	29-Aug-15	03-Sep-15		Demoisi	Demolish W/B Bridge Deck Pier 18-1
			-				
10410-1753	Demolish W/B Bridge Deck Pier 18-19 (2 beams) > Saw Cutting of Bridge Deck & Par Dem W/B Bridge Deck Disc 18 10 (Holf Beam Eastride) w/ time constraint start at 4	10	04-Sep-15	15-Sep-15			
10410-1754	Dem. W/B Bridge Deck Pier 18-19 (Half Beam-Eastside) w/ time constraint start at 41	2	14-Sep-15	15-Sep-15			
10410-1755	Demolish W/B Bridge Deck Pier 18-19 (Half Beam-Eastside) > by Crane D	1	16-Sep-15	16-Sep-15			
10410-1756	Dem. W/B Bridge Deck Pier 18-19 (Half Beam-Westside) w/ time constraint start at 4	1	17-Sep-15	17-Sep-15			
10410-1757	Demolish W/B Bridge Deck Pier 18-19 (Half Beam-Westside) > by Crane D	1	18-Sep-15	18-Sep-15			
10410-1760	Cutting of W/B Bridge Crosshead Wing at Pier 19 for Modification > by Crane D	2	17-Sep-15	18-Sep-15			
10410-1761	Cutting of W/B Bridge Crosshead Wing at Pier 18 for Modification > by Crane D	2	19-Sep-15	21-Sep-15			
10410-1762	Removal of Shoring	2	19-Sep-15	21-Sep-15			
10410-1763	Removal of Temporary Footing	5	22-Sep-15	26-Sep-15			

Remaining Level of Effort ♦ ♦ Milestone     Actual Level of Effort	Contract HY/2009/19	
Actual Level of Ellorit	Three Months Rolling Programme ( 20 Aug to 19 Nov 2015 )	
Remaining Work		
Critical Remaining Work		<u> </u>

September		October
13	20	27
are C.J. and Modify Tie E	3eam	
	Madfa Diaton	
are C.J. + Drill in Re-bar	+ Моалу Ріесар	
4Pm > by Crane B & C		
&C		
> by Crane C		
w/ time constraint start	up to 4Pm > by Crane B & 0	2
2 beams) > by Crane B &	Ċ	
d Wing at Pier 21 for Mod	dification	
	olldings to Support Beams	
dge Deck Pier 19-20 @ 2	2 Beams into 8Pcs(1x4X2)	
	w/ time constraint start up to	o 4Pm > by Crane B
ridge Deck Pier 19-20 (1	beam) > by Crane B	
	Wing at Pier 20 for Modifica	ation
	ms) > Insatall Scaffolldings to	
	Pier 17-18 @ 2 Beams into	
W/B Bridge Deck Pier 1	7-18 (1 beam) > by Crane	В
	k Pier 17-18 (1 beam) > by	Crane B
ct Footing for Shoring of	Beams	
	oring + Fixing to hold Beams	
Demolish W/B	Bridge Deck Pier 18-19 (2 I	beams) > Saw Cutting o
	dge Deck Pier 18-19 (Half B	
Demolish V	N/B Bridge Deck Pier 18-19	(Half Beam-Eastside) >
	W/B Bridge Deck Pier 18-19	(Half Beam-Westside)
🔲 De	molish W/B Bridge Deck Pie	er 18-19 (Half Beam-We
Cu	itting of W/B Bridge Crosshe	ead Wing at Pier 19 for M
	-	dge Crosshead Wing at
	Removal of Shorin	g
		Removal of Temporary

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ctivity ID A	Activity Name	lemainin Duration		Finish	August	2015 September
					09 16	
	Demolish Temp. W/B Bridge - Deck > Pier 42 to 43 (6 beams)	0	17-Jul-15 A	28-Jul-15 A	eck > Pier 42 to 43 (6 beams)	
	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 43	0	29-Jul-15 A	07-Aug-15 A	Demolish Temp. W/B Bridge - Crosshead & Pie	
	Demolish Temp. W/B Bridge - Deck > Pier 41 to 42 (6 beams)	0	08-Aug-15 A	11-Aug-15 A		· · · · · · · · · · · · · · · · · · ·
	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 42	0	12-Aug-15 A	18-Aug-15 A		lish Temp. W/B Bridge - Crosshead & Pier > Pier 42
	Demolish Temp. W/B Bridge - Deck > Pier 40 to 41 (6 beams)	0	18-Aug-15 A	19-Aug-15 A		emolish Temp. W/B Bridge - Deck > Pier 40 to 41 (6 beams)
	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 41	7	20-Aug-15	27-Aug-15		Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 41
	Demolish Temp. W/B Bridge - Deck > Pier 39 to 40 (6 beams)	4	28-Aug-15	01-Sep-15		Demolish Temp. W/B Bridge - Deck > Pier 39 to 40 (6 beams)
10410-2320 D	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 40	7	02-Sep-15	09-Sep-15		Demolish Temp. W/B Bridge - Cros
10410-2340 D	Demolish Temp. W/B Bridge - Deck > Pier 38 to 39 (6 beams)	4	10-Sep-15	14-Sep-15		Demolish Temp.
10410-2360 D	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 39	7	15-Sep-15	22-Sep-15		
10410-2380 D	Demolish Temp. W/B Bridge - Deck > Pier 37 to 38 (6 beams)	3	23-Sep-15	25-Sep-15		
10410-2400 D	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 38	7	26-Sep-15	06-Oct-15		
10410-2420 D	Demolish Temp. W/B Bridge - Deck > Pier 36 to 37 (6 beams)	3	07-Oct-15	09-Oct-15		
10410-2440 D	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 37	7	10-Oct-15	17-Oct-15		
10410-2460 D	Demolish Temp. W/B Bridge - Deck > Pier 35 to 36 (6 beams)	3	19-Oct-15	22-Oct-15		
10410-2480 D	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 36	7	23-Oct-15	30-Oct-15		
10410-2500 D	Demolish Temp. W/B Bridge - Deck > Pier 34 to 35 (6 beams)	3	31-Oct-15	03-Nov-15		
10410-2520 D	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 35 (by crane)	7	04-Nov-15	11-Nov-15		
10410-2540 D	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 34 (by crane)	7	04-Nov-15	11-Nov-15		
10410-3020 P	Pier 22 Erect Falsework at existing W/B Bridge prior to demolition	0	14-Aug-15 A	16-Aug-15 A	Pier 22 Erect	Falsework at existing W/B Bridge prior to demolition
10.1 - E/B Bridge	es (Bridge D, E and F)		1			
10.1.1 - Marine Pi	ier Construction					
Pier F01 to F02		1				
	F1B Pier/Column Construction	12	07-Oct-15	20-Oct-15		
	F1B Crosshead Construction	18	22-Oct-15	11-Nov-15		
	Bearing installation pier F1B & F2B	12	12-Nov-15	25-Nov-15		
	/ Hing Fat Slip Road					
Bridge Construe	ctron Construction (Pier E4 - Pier E2) > Construct Pile Cap at Pier E3	2	03-Aug-15 A	21-Aug-15		Construction (Pier E4 - Pier E2) > Construct Pile Cap at Pier E3
	Construction (Pier E4 - Pier E2) > Construct Pier E3	9	22-Aug-15	01-Sep-15		Construction (Pier E4 - Pier E2) > Construct Pier E3
	Construction (Pier E4 - Pier E2) > Construct Pier E3	21	02-Sep-15	25-Sep-15		
			· ·	· ·		Construction (Dire E4, Dire E2) - Modification of Cro
	Construction (Pier E4 - Pier E2) > Modification of Crosshead + Bearing at Pier E4 & E		20-Aug-15	05-Sep-15		Construction (Pier E4 - Pier E2) > Modification of Cro
	Construction (Pier E4 - Pier E2) > Erect 3nos Beams > Pier E3-E2	5	26-Sep-15	03-Oct-15		
	Construction (Pier E4 - Pier E2) > Erect 3nos Beams > Pier E4-E3	5	05-Oct-15	09-Oct-15		
	Construction (Pier E4 - Pier E2) > Erect Scaffoldings + Platform + Pre-cast Planking >	7	10-Oct-15	17-Oct-15		
	Construction (Pier E4 - Pier E2) > Rebar Fixing of Deck + Diaphragm + Concreting >	14	16-Oct-15	02-Nov-15		
	Construction (Pier E4 - Pier E2) > Construct Parapet D1-E2	14	15-Oct-15	02-Nov-15		
	Construction (Pier E4 - Pier E2) > Construct Parapet E2-E4	14	03-Nov-15	18-Nov-15		
<b>_</b>	Construction (Pier E4 - Pier E2) > Install Street Furniture/GullyEtc.	14	03-Nov-15	18-Nov-15		
	Construction (Pier E4 - Pier E2) > Install MJ at Pier E2	7	09-Nov-15	16-Nov-15		
1014-2080 C	Construction (Pier E4 - Pier E2) > Install MJ at Pier E3 & E4	8	12-Nov-15	20-Nov-15		
1014-2100 C	Construction (Pier E4 - Pier E2) > Aspahlt + Road Markings, Install Street Furniture/Si	4	21-Nov-15	25-Nov-15		
1014-2940 B	Bridge E (Pier 19 - D1) - Noise Barrier > Post + Panel	14	02-Nov-15	17-Nov-15		
1014-2960 B	Bridge E (Pier 19 - D1) - Green Panel Installation	2	18-Nov-15	20-Nov-15		
	es (Bridge C and F)					
10.2.1 - Pier Cons	struction					
Pier 38 to 43 1021-1820 P	Pier 38 (F3C) Prepare C.J. at Existing Pile Cap	11	07-Oct-15	19-Oct-15		
	Pier 38 (F3C) Construct Pier/Column	18	20-Oct-15	10-Nov-15		
	Pier 39 (F4C) Prepare C.J. at Existing Pile Cap	11	23-Sep-15	07-Oct-15		
	Pier 39 (F4C) Construct Pier/Column	18	08-Oct-15	29-Oct-15		
	Pier 39 (F4C) Construct Crosshead	24	30-Oct-15	26-Nov-15		
	Pier 40 (F5C) Prepare C.J. at Existing Pile Cap	11	10-Sep-15	22-Sep-15		
	Pier 40 (F5C) Construct Pier/Column	18	23-Sep-15	15-Oct-15		
	Pier 40 (F5C) Construct Crosshead	24	16-Oct-15	13-Nov-15		
1021-2040 P	Pier 40 (F5C) Install Bearing	9	14-Nov-15	24-Nov-15		
Remaini	ing Level of Effort 🔶 🔶 Milestone					
	<b>0</b>				Contract HY/2009/	19   _
	evel of Effort		Three P	Anthe	Rolling Programme (20	$\Delta \mu a$ to 19 Nov 2015 )
Actual W				1011113		
	ing Work					
Critical B	Remaining Work					

September		October
13	20	27
or 20 to 40 (6 booms)		
Temp. W/B Bridge - Crossh	ead & Pier > Pier 40	
er 39 to 40 (6 beams) Temp. W/B Bridge - Crossh Demolish Temp. W	/B Bridge - Deck > Pier 38	3 to 39 (6 beams)
	Demolish Tem	p. W/B Bridge - Crosshe
	De	emolish Temp. W/B Bridg
uct Pier E3		
	Co	onstruction (Pier E4 - Pier
uct Pier E3 r E2) > Modification of Crossl	head + Bearing at Pier E4	& E2
	Pier 40 (F5C)	Prepare C.J. at Existing
Pag	ge 5 of 7	

D Activity Name		lemainin(Start Duration	Finish	August		September
D21-2060 Pier 41 (F6C) Prepare C	J. at Existing Pile Cap	11 28-Aug-15	09-Sep-15	09 16	23 30	06         13         2           Description         Pier 41 (F6C) Prepare C.J. at Existing Pile Cap         2
21-2080 Pier 41 (F6C) Construct		18 10-Sep-15	02-Oct-15			
1-2100 Pier 41 (F6C) Construct		24 03-Oct-15	31-Oct-15			
-2120 Pier 41 (F6C) Install Bea		9 02-Nov-15	11-Nov-15			
2140 Pier 42 (F7C) Prepare C		11 20-Aug-15	01-Sep-15		Pier 42 (F7C) Prepa	re C.J. at Existing Pile Cap
2160 Pier 42 (F7C) Construct		18 02-Sep-15	22-Sep-15			
180 Pier 42 (F7C) Construct		24 23-Sep-15	23-Oct-15			
200 Pier 42 (F7C) Install Bea		9 24-Oct-15	03-Nov-15			
2220 Pier 43 (F8C) Prepare C	-	5 08-Aug-15	A 25-Aug-15		Pier 43 (F8C) Prepare C.J. at Existing Pile Cap	
240 Pier 43 (F8C) Construct		18 26-Aug-15	15-Sep-15			Pier 43 (F8C) Construct Pi
260 Pier 43 (F8C) Construct	Crosshead	24 16-Sep-15	15-Oct-15			·····
80 Pier 43 (F8C) Install Bea	ing	9 16-Oct-15	27-Oct-15			
to 37						
580 Pier 36 (F1C) Prepare C	J at Existing Pile Cap	11 31-Oct-15	12-Nov-15			
660 Pier 37 (F2C) Prepare C	J at Existing Pile Cap	11 19-Oct-15	31-Oct-15			
680 Pier 37 (F2C) Construct	Pier/Column	18 02-Nov-15	21-Nov-15			
740 Pier 28 Excav + Prepare		0 10-Aug-157	-	Pier 28 Excav + Pre		
760 Pier 28 Construct Pier/Co		6 20-Aug-15	26-Aug-15		Pier 28 Construct Pier/Column	
30 Pier 28 Construct Crossh	ead	14 27-Aug-15	11-Sep-15			Pier 28 Construct Crosshead
0 Pier 28 Install Bearing		9 12-Sep-15	22-Sep-15			
o 25	Malife To Decem	40 02 Can 45	22 Cap 45			
060 Pier 22 Prepare C.J. and		18 03-Sep-15	23-Sep-15			
BO Pier 22 Reconstruct Colu		18 24-Sep-15	16-Oct-15			
00 Pier 22 Reconstruct Cros	shead	24 17-Oct-15	14-Nov-15			
20 Pier 22 Install Bearing		6 16-Nov-15	23-Nov-15			
80 Pier 24 Prepare C.J. and	•	18 20-Aug-15	09-Sep-15			Pier 24 Prepare C.J. and Modify Tie Beam
00 Pier 24 Reconstruct Colu		18 10-Sep-15	02-Oct-15			
20 Pier 24 Reconstruct Cros	snead	24 03-Oct-15	31-Oct-15			
40 Pier 24 Install Bearing		9 02-Nov-15	11-Nov-15			
0 Pier 25 Prepare C.J. and	•	18 20-Aug-15	09-Sep-15			Pier 25 Prepare C.J. and Modify Tie Beam
<ul> <li>80 Pier 25 Reconstruct Colu</li> <li>00 Pier 25 Reconstruct Cross</li> </ul>		18 10-Sep-15	02-Oct-15			
	shead	24 03-Oct-15	31-Oct-15			
0 Pier 25 Install Bearing		9 02-Nov-15	11-Nov-15			
· · ·	ill in Re-bar + Modify Pilecap	0 09-Jun-15 A		y Pilecap		
520 Pier 23 Reconstruct Colu		18 26-Aug-15	15-Sep-15			Pier 23 Reconstruct Colun
540 Pier 23 Reconstruct Cros	shead	24 16-Sep-15	15-Oct-15			
1560 Pier 23 Install Bearing		9 16-Oct-15	27-Oct-15			
to 19 1215 Modify Pier 21 Crosshea	t (south wing) + Bearing	20 05-Sep-15	29-Sep-15			
1225 Modify Pier 20 Crosshea		20 00 00p 10 20 11-Sep-15	06-Oct-15			
230 Modify Pier 19 Crosshea		20 19-Sep-15	14-Oct-15			
235 Modify Pier 18 Crosshea		20 10 00p 10 20 22-Sep-15	16-Oct-15			
Bridge Construction		20 22 000 10	10 000 10			
e C1						
1000 Bridge C1 - Precast Bear	ns Pier 17-21 W/B (9 nos)	9 17-Oct-15	28-Oct-15			
001 Construction (Pier 17 - 2	) > Erect Scaffoldings + Platform + Pre-cast Planki	ing 7 22-Oct-15	29-Oct-15			
002 Construction (Pier 17 - 2	) > Rebar Fixing of Deck + Diaphragm + Concretin	ng 20 30-Oct-15	21-Nov-15			
2						
750 Bridge C2 Erect 6nos Pro	e-cast Beams by Crane D	5 23-Nov-15	28-Nov-15			
4	amont at Diar 20 (0 mar) - De Care	0 01.0	20.0 15			
-	gment at Pier 28 (2 nos) > By Crane	3 24-Sep-15	26-Sep-15			
-	gment at Pier 29 (1 no) > By Crane	2 22-Sep-15	23-Sep-15			
-	gment at Pier 30 (1 no) > By Crane	2 19-Sep-15	21-Sep-15			Br
-1070 Erect/Assemble LG2 at F		39 29-Sep-15	14-Nov-15			
1070.3 Bridge C4 Erect T-Span	Segment at Pier 30 by LG2 (10 nos)	8 16-Nov-15	24-Nov-15			
Remaining Level of Effort	♦ ♦ Milestone			-		
Actual Level of Effort				Contract HY/2009/	19	
		Three	Monthe	Rolling Programme (20	Aug to 19 Nov 2015 )	Page 6 of 7
Actual Work		11166			- Aug to 10 100 2010 j	
Remaining Work						
Critical Remaining Work						1

13	October
ier 41 (F6C) Prepare C.J. at Existing Pile Cap	20 27
xisting Pile Cap	Pier 42 (F7C) Construct Pier/Column
Pier 43 (F8C) Construct P	'ier/Column
Pier 28 Construct Crosshead	Pier 28 Install Bearing
	Pier 22 Prepare C.J. and Modify T
ier 24 Prepare C.J. and Modify Tie Beam	
ier 25 Prepare C.J. and Modify Tie Beam	
Pier 23 Reconstruct Colum	nn
Pier 23 Reconstruct Colun	
Pier 23 Reconstruct Colun	
Pier 23 Reconstruct Colum	
Pier 23 Reconstruct Colun	
Pier 23 Reconstruct Colum	
Pier 23 Reconstruct Colun	
Pier 23 Reconstruct Colun	
Pier 23 Reconstruct Colum	
Pier 23 Reconstruct Colun	Modify Pier
	Modify Pier Modify Pier Bridge C4 - Erect Pier S Bridge C4 - Erect Pier Segment at
	Modify Pier
	Modify Pier Modify Pier Bridge C4 - Erect Pier S Bridge C4 - Erect Pier Segment at
	Modify Pier Modify Pier Bridge C4 - Erect Pier S Bridge C4 - Erect Pier Segment at
	Modify Pier Modify Pier Bridge C4 - Erect Pier S Bridge C4 - Erect Pier Segment at
	Bridge C4 - Erect Pier Segment at Pier 30

ivity ID	Activity Name	lemainine Duration		Finish	August	2015		
		Duration	1		09 16	23	30 06	
1022-1070.5	Bridge C4 Stitching between Pier 30 and 31	3	27-Nov-15	30-Nov-15				
1022-1451	Bridge C4 - Erect Pier Segment at Pier 31 (1 no) > By Crane	2	11-Sep-15	12-Sep-15			Bri	
1022-1452	Bridge C4 - Erect Pier Segment at Pier 32(2 nos) > By Crane	3	14-Sep-15	16-Sep-15				
1022-1453	Bridge C5 - Erect Pier Segment at Pier 33 (1 no) > By Crane	2	17-Sep-15	18-Sep-15				
1022-1454	Erect Temp. Lowering Support on Top of Pier Segment P33, 32 & 31 (design TBC)	15	19-Sep-15	08-Oct-15				
1022-1455	Move LG1 to Temp. Lowering Support at Pier 33-31 from Pier 34-35	4	09-Oct-15	13-Oct-15				
1022-1456	Modify LG1 at Pier 31,32 and 33 for Segment Erection at Pier 32-44	26	14-Oct-15	13-Nov-15				
1022-1457	Bridge C4 Erect T-Span Segment at Piers 31 by LG1 (12 nos)	11	14-Nov-15	26-Nov-15				
	Approach Ramp							
	ach Ramp (Excluding Portion IIB)							
Bored Piles								
1061-1120	Bored Piles Testing Approach Ramp (112 nos)	80	01-Jun-15 A	24-Nov-15				
1061-3980	Pre Bored H-Pile > Pile Ramp - BN14 A	10	20-Aug-15*	31-Aug-15			Pre Bored H-Pile > Pile Ramp - BN14 A	
1061-4000	Pre Bored H-Pile > Pile Ramp - BN14 B	14	25-Aug-15	09-Sep-15			Pre Bored H-F	
1061-4020	Pre Bored H-Pile > Pile Ramp - BN15 A	14	10-Sep-15*	25-Sep-15				
1061-4040	Pre Bored H-Pile > Pile Ramp - BN15 B	14	15-Sep-15	02-Oct-15				
1061-4060	Pre Bored H-Pile > Pile Ramp - BN16 A	14	19-Sep-15	07-Oct-15				
1061-4080	Pre Bored H-Pile > Pile Ramp - BN16 B	14	24-Sep-15	12-Oct-15				
1061-4100	Pre Bored H-Pile > Pile Ramp - BM07 A	14	30-Sep-15	16-Oct-15				
1061-4120	Pre Bored H-Pile > Pile Ramp - BM07 B	14	06-Oct-15	22-Oct-15				
1061-4140	Pre Bored H-Pile > Pile Ramp - BM08 A	14	10-Oct-15	27-Oct-15				
1061-4160	Pre Bored H-Pile > Pile Ramp - BM08 B	14	15-Oct-15	31-Oct-15				
1061-4180	Pre Bored H-Pile > Pile Ramp - BM06 A	14	20-Oct-15	05-Nov-15				
1061-4200	Pre Bored H-Pile > Pile Ramp - BM06 B	14	26-Oct-15	10-Nov-15				
1061-4220	Pre Bored H-Pile > Pile Ramp - BM05 A	14	30-Oct-15	14-Nov-15				
1061-4240	Pre Bored H-Pile > Pile Ramp - BM05 B	14	04-Nov-15	19-Nov-15				
1061-4260	Pre Bored H-Pile > Pile Ramp - BM04 A	14	09-Nov-15	24-Nov-15				
1061-4280	Pre Bored H-Pile > Pile Ramp - BM04 B	14	13-Nov-15	28-Nov-15				
ELS								
1061-1160	Drive Sheet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D11-D12 Northern {	14	31-Aug-15*	15-Sep-15				
1061-1180	Drive Sheet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D11-D10 Northern {	14	16-Sep-15	03-Oct-15				
1061-1200	Drive Sheet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D10-D09 Northern \$	14	05-Oct-15	20-Oct-15				
1061-1220	Drive Sheet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D09-D08 Northern \$	14	22-Oct-15	06-Nov-15				
1061-1240	Drive Sheet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D08-D07 Northern \$	14	07-Nov-15	23-Nov-15				
1061-1280	Drive Sheet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D11-D12 Southern \$	14	31-Aug-15	15-Sep-15				
1061-1300	Drive Sheet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D11-D10 Southern \$	14	16-Sep-15	03-Oct-15				
1061-1320	Drive Sheet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D10-D09 Southern	14	05-Oct-15	20-Oct-15				
1061-1340	Drive Sheet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D09-D08 Southern	14	22-Oct-15	06-Nov-15				
1061-1360	Drive Sheet Pile for Trough A & B (excl IIB) - Appr. Ramp > Pier D08-D07 Southern	14	07-Nov-15	23-Nov-15				
1061-1400	Install & Operate Dewatering System (excl IIB) - Appr. Ramp > Pier D06-D08	14	19-Oct-15	04-Nov-15				
1061-1420	Install & Operate Dewatering System (excl IIB) - Appr. Ramp > Pier D08-D10	14	05-Nov-15	20-Nov-15				
Structure								
1061-1860	Construct Retaining Wall E Pile Cap (7 nos)	28	31-Oct-15	02-Dec-15				
10.7 - Section	X - Miscellaneous Works							
10.7.1 - TTM St	tages							
1071-1240	TTM Stage 5 - TMLG Consultation and Endorsement	98	29-Jun-15 A	25-Nov-15				
1071-1260	TTM Stage 5 - TTM Enabling Works	1	26-Nov-15	26-Nov-15				
1071-1280	TTM Stage 5 - Hing Fat Slip Road Divert 1 Lane through 'Bridge From Pier E4 to Pier	0		26-Nov-15				
10.7.2 - Oil Stre	eet/Watson Road (Portion III)							
1072-1220	Drainage works - Manhole 1-49B,DN450 & Associate Gully Pipes > Portion VIIB > Wa	0	05-May-15 A	28-Jul-15 A	9B,DN450 & Associate Gully Pipes > Portion VIIB > W	atson Road		
1072-1240	Drainage works - Manhole 1-49, DN300 & Associate Gully Pipes > Portion VIIB > Wats	0	15-May-15 A	30-Jul-15 A	nole 1-49,DN300 & Associate Gully Pipes > Portion VII	3 > Watson Road		
1072-1260	Drainage works - Manhole 1-48B,DN450 & Associate Gully Pipes > Portion VIIB > Wa	0	31-Jul-15 A	03-Aug-15 A	e works - Manhole 1-48B,DN450 & Associate Gully P			
1072-1280	Drainage works - Road Reinstatement > Portion VIIB > Watson Road	0	04-Aug-15 A	08-Aug-15 A	Drainage works - Road Reinstatement >	ortion VIIB > Watson Road		

Remaining Level of Effort   Actual Level of Effort   Actual Work   Remaining Work   Critical Remaining Work	
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September		October
13	20	27
dge C4 - Erect Pier S	Segment at Pier 31 (1 no	) > By Crane at Pier 32(2 nos) > By Crane egment at Pier 33 (1 no) > By
Bridge (	24 - Erect Pier Segment	at Pier 32(2 nos) > By Crane
	Bridge C5 - Erect Pier Se	egment at Pier 33 (1 no) > By
ile > Pile Ramp - BN		
ile > Pile Ramp - BN	14 B	
		Pre Bored H-Pile > Pile Rai
Drive Sheet	Pile for Trough A & B (e	excl IIB) - Appr. Ramp > Pier [
Drive Sheet	Pile for Trough A & B (e	excl IIB) - Appr. Ramp > Pier [
/ • • • • • • • • • • • • • • • • •		
]	Page 7 of 7	

<i>v</i> ity ID Acti	ivity Name	emainir Duration	Early Start	Early Finish	Late Start	Late Finish	Total Float	October	2015 November
3MRP - Oct 2015	to Jan 2016							11	18         25         01         08         15         22         29         06
	RUCTION WORKS								
02.3 - Method Statem									
	S Landscape Deck Structure - Submission	23	20-Oct-15	11-Nov-15	08-Oct-16	31-Oct-16	355		MS Landscape Deck Structure - Submiss
	S Landscape Deck Structure - ER Review & Comment	28	12-Nov-15			28-Nov-16	355		· · · · · · · · · · · · · · · · · · ·
	S Landscape Deck Structure - Resubmission	28	10-Dec-15			26-Dec-16	355		
	Noise Semi Enclosure - Submission	6	20-Oct-15	25-Oct-15	13-Jan-16	18-Jan-16	85		MS Noise Semi Enclosure - Submission
0230-1612 MS	Noise Semi Enclosure - ER Review / Comment	28	26-Oct-15	22-Nov-15	19-Jan-16	15-Feb-16	85		MS Noise Semi Enclosu
0230-1613 MS	Noise Semi Enclosure - Resubmission	28	23-Nov-15	20-Dec-15	16-Feb-16	14-Mar-16	85		
0230-1614 MS	Noise Semi Enclosure - No Adverse Comment	28	21-Dec-15	17-Jan-16	15-Mar-16	11-Apr-16	85		
0230-1690 MS	SApproach Ramp - ER Approval	14	20-Oct-15	02-Nov-15	25-Mar-16	07-Apr-16	157		MS Approach Ramp - ER Approval
0230-2330 MS	For Connection of EVB and EVA - Submission	10	20-Oct-15	29-Oct-15	10-Nov-15	19-Nov-15	21		MS for Connection of EVB and EVA - Submission
0230-2340 MS	6 for Connection of EVB and EVA - ER Review & Comment	12	30-Oct-15	10-Nov-15	20-Nov-15	01-Dec-15	21		MS for Connection of EVB and EVA - ER
0230-2350 MS	S for Connection of EVB and EVA - Resubmission	6	11-Nov-15	16-Nov-15	02-Dec-15	07-Dec-15	21		MS for Connection of EVB and E
0230-2360 MS	S for Connection of EVB and EVA - ER No Adverse Comment	10	17-Nov-15	26-Nov-15	08-Dec-15	17-Dec-15	21		MS for Connection
0240-2370 MS	6 for erection of Beams at Pier 17-21 - Submission	28	20-Oct-15	16-Nov-15	01-Jan-16	28-Jan-16	73		MS for erection of Beams at Pier
0240-2380 MS	for erection of Beams at Pier 17-21 - ER Review / Comment	28	17-Nov-15	14-Dec-15	29-Jan-16	25-Feb-16	73		
0240-2390 MS	6 for erection of Beams at Pier 17-21 - Resubmission	28	15-Dec-15	11-Jan-16	26-Feb-16	24-Mar-16	73		
0240-2400 MS	6 for erection of Segment at W/B Bridge by LG - Submission	5	20-Oct-15	24-Oct-15	22-Oct-15	26-Oct-15	2		MS for erection of Segment at W/B Bridge by LG - Submission
0240-2410 MS	6 for erection of Segment at W/B Bridge by LG - ER Review / Comment	5	25-Oct-15	29-Oct-15	27-Oct-15	31-Oct-15	2		MS for erection of Segment at W/B Bridge by LG - ER Revi
0240-2420 MS	6 for erection of Segment at W/B Bridge by LG - Resubmission	5	30-Oct-15	03-Nov-15	01-Nov-15	05-Nov-15	2		MS for erection of Segment at W/B Bridge by LG - R
0240-2430 MS	6 for erection of Segment at W/B Bridge by LG - No Adverse Comment	5	04-Nov-15	08-Nov-15	06-Nov-15	10-Nov-15	2		MS for erection of Segment at W/B Bridge by
0240-2440 MS	6 for trial erection of green roof - Submission	15	20-Oct-15	03-Nov-15	08-Mar-16	22-Mar-16	140		MS for trial erection of green roof - Submission
0240-2450 MS	S for for trial erection of green roof - ER Review / Comment	15	04-Nov-15	18-Nov-15	23-Mar-16	06-Apr-16	140		MS for for trial erection of gree
0240-2460 MS	6 for for trial erection of green roof - Resubmission	15	19-Nov-15	03-Dec-15	07-Apr-16	21-Apr-16	140		MS for fo
0240-2470 MS	6 for for trial erection of green roof - No Adverse Comment	15	04-Dec-15	18-Dec-15	22-Apr-16	06-May-16	140		
02.4 - Contractor's D	esign and Build Items								
0240-1180 HG	HK Permanent Carpark Design - ER/HGHK Review and Comment	15	20-Oct-15	03-Nov-15	30-Oct-15	13-Nov-15	10		HGHK Permanent Carpark Design - ER/HGHK Rev
0240-1190 HG	HK Permanent Carpark Design - Resubmission	50	04-Nov-15	23-Dec-15	14-Nov-15	02-Jan-16	10		
0240-1270 Lar	ndscaping Design - Submission	28	20-Oct-15	16-Nov-15	12-Oct-17	08-Nov-17	723		Landscaping Design - Submissi
0240-1280 Lar	ndscaping Design - ER Review/Resubmission	28	17-Nov-15	14-Dec-15	09-Nov-17	06-Dec-17	723		
0240-1290 Lar	ndscaping Design - ER Approval	28	15-Dec-15	11-Jan-16	07-Dec-17	03-Jan-18	723		
0240-1630 Gre	een Wall Minimum 2 years Establishment	488	20-Oct-15	03-Jun-17	18-Nov-16	05-Jul-18	326		
02.5 - Bridge Segme	nt/Beam Off-site Precasting					1			
0250-3580 Brid	dge F1C Pier 36 T-span Segment Off-site Casting (13 nos.)	12	20-Oct-15	04-Nov-15	19-Jan-16	02-Feb-16	76		Bridge F1C Pier 36 T-span Segment Off-site Casti
0250-3720 Brid	dge F3C Pier 41 T-span Segment Off-site Casting (13 nos.)	15	20-Oct-15	06-Nov-15	22-Mar-16	11-Apr-16	126		Bridge F3C Pier 41 T-span Segment Off-site Ca
0250-3740 Brid	dge F3C Pier 42 T-span Segment Off-site Casting (11 nos.)	3	20-Oct-15	23-Oct-15	26-Apr-16	28-Apr-16	153		Bridge F3C Pier 42 T-span Segment Off-site Casting (11 nos.)
0250-3760 Brid	dge F3C Pier 40 End-span Segment Off-site Casting (5 nos.)	0	20-Oct-15	20-Oct-15	25-Apr-16	25-Apr-16		e F3C Pie	r 40 End-span Segment Off-site Casting (5 nos.)
0250-3860 Brid	dge F1B2 - Abut D12 Segment - 6 nos. (S2)	19	23-Oct-15	14-Nov-15	07-Nov-16	28-Nov-16	312		Bridge F1B2 - Abut D12 Segment - 6
0250-3880 Brid	dge F1B2 - Pier F1B2 Segment - 13 nos. (S1)	40	20-Oct-15	05-Dec-15	24-Dec-16	10-Feb-17	356		Bridg
0250-3900 Bri	dge F1B2 - Pier F2B2 Segment - 11 nos. (S1)	28	14-Dec-15	16-Jan-16	18-Feb-17	22-Mar-17	356		
0250-3920 Bri	dge F1B2 - Pier F3B2 Segment - 6 nos. (S2)	19	21-Nov-15	14-Dec-15	06-Dec-16	27-Dec-16	312		
0250-3940 Brid	dge F2B - Pier F3B2 Segment - 5 nos. (S2)	16	21-Dec-15	11-Jan-16	04-Jan-17	21-Jan-17	312		
Remaining L Actual Level	evel of Effort   Milestone of Effort								
Actual Work				C	ontrac	t HY/20	09/1	9	

Three Months Rolling Programme (20 Oct 2015 to 19 Jan 2016)

Remaining Work
 Critical Remaining Work

December				2016 Janua			
13	20	27	03	10		17	24
ion							
IS Landscap	be Deck \$	Structure	e - ER Rev	/iew & Con	nmen	t	
				MS Lands	cane	Deck	Struc
e - ER Revie							
	MSNo	oise Sen	ni Enclosu	ire - Resub	miss	ion	
						MQN	loise §
Review & Co	mment						
'A - Resubm							
of EVB and I	EVA - ER	No Adv	verse Com	nment			
7-21 - Subm	nission						
MS for	rerection	of Bear	ns at Pier	17-21 - EF	Rev	iew /	Comn
				MS	for e	rectio	on of B
w / Commer							
submission							
LG - No Adv							
roof - ER F	Peview / (	Commer					
trial erection							
	MS for fo	r trial ere	ection of g	reen roof -	No A	\dver	se Co
ew and Com	ment						
	H H	GHK Pe	rmanent C	Carpark De	sign ·	- Res	ubmis
n							
Lands	caping I	Desian -	ER Revie	w/Resubm	nissio	n	
				Lar			Desiç
g (13 nos.)							
ting (13 nos	.)						
nos. (S2)							
F1B2 - Pier							
					B	ridge	F1B2
Bridge	F1B2 - I	Pier F3B	2 Seame	nt - 6 nos. (	S2)		
2nage							
				Brid	ige F	2B - I	Pier F3
	Pag	e 1 of	13				
	6						

ity ID	Activity Name	emain Juratio	ir Early Start	Early Finish	Late Start	Late Finish	Total Float	October	2015 November
02.6 - Fabricatio	n & Delivery of Noise Enclosure							11	18 25 01 08 15 22 29 06
0260-5000	Int. Noise Enclosure Main + Sub Frames Fab / Del	68	20-Oct-15	09-Jan-16	16-Jan-16	11-Apr-16	74		
0260-5010	Int. Noise Enclosure Noise Panel Fab / Del	10	20-Oct-15	31-Oct-15	30-Mar-16	11-Apr-16	131		Int. Noise Enclosure Noise Panel Fab / Del
3 - PRELIMI	NARY WORKS								
03.3 - Interface	Works								
0261-1000	Constr. of DN75 Storm Drain (Oil street) - ELS and Excavation	0	20-Oct-15	20-Oct-15	23-Oct-15	23-Oct-15			ain (Oil street) - ELS and Excavation
0261-1010	Constr. of DN75 Storm Drain (Oil street) - Casting of Blinding Layer	0	20-Oct-15	20-Oct-15	23-Oct-15	23-Oct-15		Storm D	ain (Oil street) - Casting of Blinding Layer
0261-1020	Constr. of DN75 Storm Drain (Oil street) - Pipe Laying + Air test	0	20-Oct-15	20-Oct-15	23-Oct-15	23-Oct-15			Storm Drain (Oil street) - Pipe Laying + Air test
0261-1030	Constr. of DN75 Storm Drain (Oil street) - Constr. of Manhole 1-56 (Lower portion)	0	20-Oct-15	20-Oct-15	23-Oct-15	23-Oct-15		nstr. of D	175 Storm Drain (Oil street) - Constr. of Manhole 1-56 (Lower portion)
0261-1040	Constr. of DN75 Storm Drain (Oil street) - Constr. of Manhole 1-56 (Upper portion)	0	20-Oct-15	20-Oct-15	23-Oct-15	23-Oct-15			r. of DN75 Storm Drain (Oil street) - Constr. of Manhole 1-56 (Upper portion)
0261-1050	Constr. of DN75 Storm Drain (Oil street) - Concreting Pipeline intersection	0	20-Oct-15	20-Oct-15	23-Oct-15	23-Oct-15		I Co	str. of DN75 Storm Drain (Oil street) - Concreting Pipeline intersection
0261-1060	Constr. of DN75 Storm Drain (Oil street) - Trench Backfilling	0	20-Oct-15	20-Oct-15	23-Oct-15	23-Oct-15		C	onstr. of DN75 Storm Drain (Oil street) - Trench Backfilling
0261-1070	Constr. of DN75 Storm Drain (Oil street) - Removing ELS	2	20-Oct-15	22-Oct-15	23-Oct-15	24-Oct-15	2		Constr. of DN75 Storm Drain (Oil street) - Removing ELS
0261-1080	Constr. of DN75 Storm Drain (Oil street) - Pavement Reinstatement	3	23-Oct-15	26-Oct-15	26-Oct-15	28-Oct-15	2		Constr. of DN75 Storm Drain (Oil street) - Pavement Reinstatemen
0261-1090	Complete Drainage work at Oil Street	0		28-Oct-15		28-Oct-15	0		<ul> <li>Complete Drainage work at Oil Street</li> </ul>
5 - SECTION	I 2 & 2A OF THE WORKS								
05.1 - Cut & Cov	ver Tunnel Ch 4855-4932 (APS Footprint)								
05.1.3 - APS & T	unnel Structure								
0513-3060	APS Basement (Bay 21-South) - Staircase Landing 8 > Staircase Landing 12	20	20-Oct-15	12-Nov-15	20-Oct-15	12-Nov-15	0		APS Basement (Bay 21-South) - Staircas
0513-3080	Tunnel Level - South Side Additional Beam at Bay 21	5	07-Nov-15	12-Nov-15	07-Nov-15	12-Nov-15	0		Tunnel Level - South Side Additional Bea
0513-3081	Remedial Works - Concrete defect on partition wall	0	20-Oct-15	20-Oct-15	16-Nov-15	16-Nov-15		medial V	orks - Concrete defect on partition wall
0513-3082	Remedial Works - Panel installation	3	13-Nov-15	16-Nov-15	13-Nov-15	16-Nov-15	0		Remedial Works - Panel installatio
0513-3083	Remedial Works - Ttrapped gullies	0	20-Oct-15	20-Oct-15	16-Nov-15	16-Nov-15			Remedial Works - Ttrapped gullies
0513-3084	Remedial Works - Water seepage on soffit, diaphragm wall and floor slab	0	20-Oct-15	20-Oct-15	16-Nov-15	16-Nov-15			Remedial Works - Water seepage on soffit, diaphragm wall and floor slab
0513-3085	Remedial Works - Concrete defect on completed staircase	3	20-Oct-15	23-Oct-15	13-Nov-15	16-Nov-15	20		Remedial Works - Concrete defect on completed staircase
0513-3086	Remedial Works - Cleaning of 150mm & 50mm dia. Cross rd. ducts & Pipes	0	20-Oct-15	20-Oct-15	16-Nov-15	16-Nov-15		Remed	al Works - Cleaning of 150mm & 50mm dia. Cross rd. ducts & Pipes
0513-3087	Remedial Works - Concrete defect on walls and slabs at pump sump E & Tunnel	0	20-Oct-15	20-Oct-15	16-Nov-15	16-Nov-15			Remedial Works - Concrete defect on walls and slabs at pump sump E & T
0513-3580	Completion of Outstanding Works at APS & Tunnel	0		16-Nov-15		16-Nov-15	0		<ul> <li>Completion of Outstanding Works a</li> </ul>
05.1.5 - EVB Sub	o-structure & Tunnel								
0515-1120	EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 1A : GL1-2/A-E, 2-3/B-E, 3-6/C-F, 4-6/F-J	4	20-Oct-15	24-Oct-15	20-Oct-15	24-Oct-15	0		EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 1A : GL1-2/A-E
0515-1140	EVB Basement - Col/Partition Wall (Fwk) > Zone 1A to Mezz (-1.40) Soffit	7	20-Oct-15	28-Oct-15	20-Oct-15	28-Oct-15	0		EVB Basement - Col/Partition Wall (Fwk) > Zone 1A to Mezz (-
0515-1160	EVB Basement - Col/Partition Wall (Conc) > Zone 1A to Mezz (-1.40) Soffit	2	29-Oct-15	30-Oct-15		14-Nov-15	13		EVB Basement - Col/Partition Wall (Conc) > Zone 1A to Mez
0515-1180	EVB Basement - Mezz Slab & Beam (Lv -1.4) - (Falsework/Fwk) > Zone 1A	10	20-Oct-15	31-Oct-15	04-Nov-15		12		EVB Basement - Mezz Slab & Beam (Lv -1.4) - (Falsework
0515-1200	EVB Basement - Mezz Slab & Beam (Lv -1.4) - (Reb. Fix) > Zone 1A	6	02-Nov-15	07-Nov-15	16-Nov-15	21-Nov-15	12		EVB Basement - Mezz Slab & Beam (Lv -1.4) - (
0515-1220	EVB Basement - Mezz Slab & Beam (Lv -1.4) - (Conc) > Zone 1A	2	09-Nov-15		23-Nov-15		12		EVB Basement - Mezz Slab & Beam (Lv -1.4
0515-1240	EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 2A : GL1-6/A-D (incl ST-04)	8	20-Oct-15			31-Oct-15	2		EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 2A : GL
0515-1260	EVB Basement - Col/Partition Wall (Fwk) > Zone 2A to Roof Soffit	12	29-Oct-15		29-Oct-15	11-Nov-15	0		EVB Basement - Col/Partition Wall (Fwk) >
0515-1280	EVB Basement - Col/Partition Wall (Conc) > Zone 2A to Roof Soffit	2	12-Nov-15		12-Nov-15		0		EVB Basement - Col/Partition Wall (Con
0515-1300	EVB Basement - Mezz Slab & Beam (Lv +2.65) - (Falsework/Fwk) > Zone 2A	6	14-Nov-15		14-Nov-15		0		EVB Basement - Mezz Slab &
	EVB Basement - Mezz Slab & Beam (Lv +2.65) - (Reb. Fix) > Zone 2A	3	21-Nov-15	24-Nov-15		24-Nov-15	0		EVB Basement - Mezz S
0515-1320							0		EVB Basement - Mezz
0515-1320 0515-1340	EVB Basement - Mezz Slab & Beam (Lv +2.65) - (Conc) > Zone 2A	1	25-Nov-15						
0515-1320		1 4 8	25-Nov-15 20-Oct-15 26-Oct-15	24-Oct-15		25-Nov-15 27-Oct-15 05-Nov-15	2		EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 3A : GL1-6/E-H

	Three Months Rolling Programme (	( 20 Oct 2015 to 19 Jan 2016 )
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Remaining Work
 Critical Remaining Work

<b>.</b>				2016						
December 13	20	27	03	January 10	17	24				
				Int. Noise	Enclos	sure M				
)										
ent										
se Landing		rcase La	nding 12							
am at Bay 2	21									
on										
Tunnel										
at APS & Tu	innel									
E, 2-3/B-E, 3	3-6/C-F,	4-6/F-J								
-1.40) Soffit										
ezz (-1.40) S	Soffit									
k/Fwk) > Zo	ne 1A									
(Reb. Fix) >	Zone 1	Α								
.4) - (Conc)		1A								
_1-6/A-D (in	cl ST-04	· · · · · · · · · · · · · · · · · · ·								
> Zone 2A t	o Roof S	Soffit								
onc) > Zone										
			ork/Fwk) > Zo	one 2A						
			eb. Fix) > Zoi							
			Conc) > Zone							
		+2.05) - (		# ZA						
	•									
to Roof Soffi	ι									

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D	Activity Name	emaini Juratio	r Early Start	Early Finish	Late Start	Late Finish	Total Float	October	2015 November
0515-1400	EVB Basement - Col/Partition Wall (Conc) > Zone 3A to Roof Soffit	2	02-Nov-15	03-Nov-15	04-Nov-15	05-Nov-15	2	11	18         25         01         08         15         22         29         06           ■         EVB Basement - Col/Partition Wall (Conc) > Zone 3/
0515-1420	EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 4A : GL1-6/H-K	1	30-Oct-15	30-Oct-15	13-Nov-15		12		EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 4A : (
0515-1440	EVB Basement - Col/Partition Wall (Fwk) > Zone 4A to Roof Soffit	7	31-Oct-15		13-Nov-15		11		EVB Basement - Col/Partition Wall (Fwk) > Zor
0515-1460	EVB Basement - Col/Partition Wall (Conc) > Zone 4A to Roof Soffit	2	09-Nov-15		20-Nov-15		11		EVB Basement - Col/Partition Wall (Conc)
0515-1480	EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 5A : GL1-6/K-O (incl ST-03)	7	20-Oct-15		03-Nov-15		11		EVB Basement - Col/Partition Wall (Reb. Fix) > Zone 5A : GL
0515-1500	EVB Basement - Col/Partition Wall (Fwk) > Zone 5A to Roof Soffit	9	20-Oct-15	30-Oct-15	03-Nov-15		11		EVB Basement - Col/Partition Wall (Fwk) > Zone 5A to Ro
0515-1520	EVB Basement - Col/Partition Wall (Conc) > Zone 5A to Roof Soffit	1	20-Oct-15		03-Nov-15		11		EVB Basement - Col/Partition Wall (Conc) > Zone 5A to Roof Soffit
0515-1540	EVB Basement - Roof Slab (Falsework/Fwk) > Zone 5B : GL1-6/K-O	11	20-Oct-15			03-Nov-15	2		EVB Basement - Roof Slab (Falsework/Fwk) > Zone 5
0515-1560	EVB Basement - Roof Slab (Reb Fix) > Zone 5B : GL1-6/K-O	17	20-Oct-15		02-Dec-15		36		EVB Basement - Roof Slab (Reb Fix) > Zon
0515-1580	EVB Basement - Roof Slab (Conc) > Zone 5B : GL1-6/K-O	2	09-Nov-15		22-Dec-15		36		EVB Basement - Roof Slab (Conc) > Zo
0515-1600	EVB Basement - Roof Slab (Falsework/Fwk) > Zone 4B : GL1-6/H-K	1	20-Oct-15		03-Nov-15		11		■ EVB Basement - Roof Slab (Falsework/Fwk) > Zone 4B : GL1-6/H-K
0515-1620	EVB Basement - Roof Slab (Reb Fix) > Zone 4B : GL1-6/H-K	14	20-Oct-15		08-Dec-15		41		EVB Basement - Roof Slab (Reb Fix) > Zone 4B :
0515-1640	EVB Basement - Roof Slab (Conc) > Zone 4B : GL1-6/H-K	2	11-Nov-15		24-Dec-15		36		□ EVB Basement - Roof Slab (Conc) >
0515-1660	EVB Basement - Roof Slab (Sale work/Fwk) > Zone 3B : GL1-6/E-H	21	02-Nov-15		04-Nov-15		2		EVB Basement - Re
0515-1680	EVB Basement - Roof Slab (Reb Fix) > Zone 3B : GL1-6/E-H	14	24-Nov-15		10-Dec-15		14		
0515-1700	EVB Basement - Roof Slab (Conc) > Zone 3B : GL1-6/E-H	2	10-Dec-15		28-Dec-15		14		
0515-1720	EVB Basement - Roof Slab (Falsework/Fwk) > Zone 2B : GL1-6/A-E	21	26-Nov-15		26-Nov-15		0		
0515-1740	EVB Basement - Roof Slab (Reb Fix) > Zone 2B : GL1-6/A-E	14	12-Dec-15		12-Dec-15				
0515-1760	EVB Basement - Roof Slab (Conc) > Zone 2B : GL1-6/A-E	2	30-Dec-15		30-Dec-15		0		
0515-1780	EVB - Reinstatement of Openings @ TA23-25 - Demo & Erection of Working Platform (hanoing)	5	24-Dec-15		18-Jan-16		19		
0515-1800	EVB - Reinstatement of Openings @ TA23-25 - Formworks	2	31-Dec-15		23-Jan-16		19		
0515-1820	EVB - Reinstatement of Openings @ TA23-25 - Rebar Fixing + Concreting	6	04-Jan-16		26-Jan-16		19		
0515-1840	EVB - Reinstatement of Openings @ TA23-25 - Curing of Concrete	3	11-Jan-16		02-Feb-16		19		
0515-1860	EVB - Reinstatement of Openings @ TA23-25 - Removal of Formworks & Platform	3	14-Jan-16		05-Feb-16	11-Feb-16	19		
0515-1980	Complete approx 50% of EVB Structure	0		22-Oct-15		08-Nov-19		50% of E	VB Structure
1051-3221	Saw Cutting Preparation for D-Wall - South (Scaffolding/Platform/Coring) - (Zone 4A-5A)	12	24-Oct-15		26-Nov-15		28		Saw Cutting Preparation for D-Wall - South (Sc
1051-3222	Saw Cutting of D-Wall > South - (Zone 4A-5A)	12	07-Nov-15		18-Jan-16		59		Saw Cutting of D-Wall > So
1051-3223	CJ Preparation for South Wall along D-Wall - (Zone 4A-5A)	10			01-Feb-16		66		CJ Preparation for So
1051-3224	Construction of South Wall along D-Wall + Stitiching to Roof Slab - (Zone 4A-5A)	7	21-Nov-15	28-Nov-15	01-Feb-16	11-Feb-16	59		Construction of
1051-3225	Saw Cutting Preparation for D-Wall - South (Scaffolding/Platform/Coring) - (Zone 3A)	12	07-Nov-15	20-Nov-15	10-Dec-15	23-Dec-15	28		Saw Cutting Preparation for
1051-3226	Saw Cutting of D-Wall > South - (Zone 3A)	13	21-Nov-15	05-Dec-15	24-Dec-15	09-Jan-16	28		Saw C
1051-3227	CJ Preparation for South Wall along D-Wall - (Zone 3A)	10	27-Nov-15	08-Dec-15	13-Jan-16	23-Jan-16	38		C
1051-3228	Construction of South Wall along D-Wall + Stitiching to Roof Slab - (Zone 3A)	7	07-Dec-15	14-Dec-15	13-Jan-16	20-Jan-16	30		
1051-3230	Excavation + Saw Cutting Preparation at North Side D-Wall - (TA24-23)	12	12-Dec-15	26-Dec-15	16-Dec-15	30-Dec-15	3		
1051-3240	Saw Cutting of D-Wall > North - (Zone 2A)	11	21-Dec-15	04-Jan-16	24-Dec-15	07-Jan-16	3		
1051-3250	CJ Preparation for North Wall along D-Wall - (Zone 2A)	10	28-Dec-15	08-Jan-16	08-Jan-16	19-Jan-16	9		
1051-3260	Construction of North Wall along D-Wall + Stitiching to Roof Slab - (Zone 2A)	11	05-Jan-16	16-Jan-16	08-Jan-16	20-Jan-16	3		
1051-3330	Excavation at North Side D-Wall - (TA27-26)	4	18-Dec-15	22-Dec-15	14-Jan-16	18-Jan-16	21		
1051-3340	Saw Cutting Preparation for D-Wall - North (Scaffolding/Platform/Coring) - (Zone 5A)	12	09-Dec-15	22-Dec-15	05-Jan-16	18-Jan-16	21		
1051-3350	Saw Cutting of D-Wall > North - (Zone 5A)	12	23-Dec-15	07-Jan-16	19-Jan-16	01-Feb-16	21		
1051-3360	CJ Preparation for North Wall along D-Wall - (Zone 5A)	10	30-Dec-15	11-Jan-16	02-Feb-16	16-Feb-16	28		
1051-3370	Construction of North Wall along D-Wall + Stitiching to Roof Slab - (Zone 5A)	6	08-Jan-16	14-Jan-16	02-Feb-16	11-Feb-16	21		
1051-3430	Complete Saw Cutting of D-Wall after Removal of TA23	3	29-Dec-15	31-Dec-15	11-Jan-16	13-Jan-16	10		

Remaining Level of Effort	•	<ul> <li>Milesto</li> </ul>
Actual Level of Effort		
Actual Work		
Remaining Work		
Critical Remaining Work		

### Contract HY/2009/19 Three Months Rolling Programme ( 20 Oct 2015 to 19 Jan 2016 )

December				2016 January		
13	20	27	03	10	17	24
to Roof So	ffit 					
GL1-6/H-K						
e 4A to Roo						
> Zone 4A t						
I-6/K-O (inc	I ST-03	)				
of Soffit						
3 : GL1-6/K-						
5B : GL1-6	/K-O					
e 5B : GL1-	6/K-O					
GL1-6/H-K						
one 4B : Gl						
of Slab (Fal						
				Zone 3B : G		
EVB Bas	ement	- Roof SI	ab (Conc) >	> Zone 3B :	GL1-6/E-	H
			- Roof Slal	b (Falsewor	k/Fwk) >	Zone
			VB Basem	ent - Roof S	Slab (Reb	Fix) >
			EVB Bas	ement - Ro	of Slab (0	Conc)
			EVB - Reir	nstatement	of Openir	ngs @
			EVB -	Reinstatem	ent of Op	ening
				EVB - R	einstater	nento
				🔲 E <sup>v</sup>	VB - Rein	stater
					EVB-I	Reins
ffolding/Pla		oring) - (Z	one 4A-5A	.)		
ith - (Zone 4	A-5A)					
th Wall alor	-	-				
				Roof Slab -		-5A)
D-Wall - So	uth (Sc	affolding/	Platform/Co	oring) - (Zon	ie 3A)	
utting of D-\						
				all - (Zone 3		
Cons	truction	of South	Wall along	D-Wall + S	titiching t	o Roo
		Exca	vation + Sa	w Cutting P	reparatio	on at N
			Sav	w Cutting of	D-Wall >	North
				CJ Prepa	ration for	North
					Constr	uction
	<b>E</b>	xcavatior	at North S	ide D-Wall	· (TA27-2	6)
	S	aw Cuttin	g Preparati	ion for D-Wa	all - North	ı (Sca
				Saw Cuttir	ig of D-W	all > I
				CJ P		
					Construct	ion of
			Complete	e Saw Cuttir	ng of D-W	/all af
	Pa	age 3 of	13			
	10	·50 5 01	10			

y ID	Activity Name	emainii Juratio	Early Start	Early Finish	Late Start	Late Finish	Total Float	October	2015 November
1051-3440	Complete Wall & Stair along TA23	6	02-Jan-16	08-Jan-16	14-Jan-16	20-Jan-16	10	11	18         25         01         08         15         22         29         06
1051-3441	Excavation at North Side D-Wall - (TA24-25)	4	23-Dec-15		14-Jan-16		17		
1051-3510	Excavation at North Side D-Wall - (TA25-26)	4	31-Dec-15		14-Jan-16		11		
1051-3520	Saw Cutting Preparation for D-Wall - North (Scaffolding/Platform/Coring) - (Zone 3A-4A)	12	24-Dec-15		05-Jan-16		8		
1051-3530	Saw Cutting of D-Wall > North - (Zone 3A-4A)	12	09-Jan-16		19-Jan-16		8		
1051-3540	CJ Preparation for North Wall along D-Wall - (Zone 3A-4A)	10	15-Jan-16		02-Feb-16		15		
1051-3550	Construction of North Wall along D-Wall + Stitiching to Roof Slab - (Zone3A-4A)	6	23-Jan-16		02-Feb-16		8		
1051-3560	EVA - Coring along Bulkhead Wall	14	28-Nov-15		19-Dec-15		18		
1051-3570	EVA - Vertical & Horizontal Saw Cutting along Bulk Head Wall	14	15-Dec-15		07-Jan-16		18		
1051-3580	EVA - Pre-Treatment + Pressure Grouting	7	02-Jan-16		23-Jan-16		18		
1051-3590	EVA - Removal of Bulkhead Wall	7	02-Jan-16		23-Jan-16		18		
1051-3600	EVA - Complete demolition and Prepare CJ	7	11-Jan-16		01-Feb-16		18		
1051-3615	Completion 100% of EVB Structure (excl reinstatement)	0		31-Dec-15		31-Dec-15	0		
1051-3620	Handover EVB (Zone 2A)	0		20-Jan-16		20-Jan-16	0		
1070-1000	Pre-cast Watertank - Preparation of Pre-casting Area	11	20-Oct-15		20-Oct-15	02-Nov-15	0		Pre-cast Watertank - Preparation of Pre-casting Area
070-1000	Pre-cast Watertank - Rebar Fixing of Base Slab + Lower Part Wall	6	03-Nov-15		03-Nov-15		0		Pre-cast Watertank - Rebar Fixing of Base Si
1070-1020	Pre-cast Watertank - Removal of Formworks + CJ Preparation	2	10-Nov-15		10-Nov-15		0		Pre-cast Watertank - Removal of Formwor
1070-1020	Pre-cast Watertank - Erect Formworks + Concreting	3	12-Nov-15		12-Nov-15		0		Pre-cast Watertank - Erect Formworks
1070-1030	Pre-cast Watertank - Install Scaffolding + Platform	3	16-Nov-15		12-Nov-15		0		Pre-cast Watertank - Install Scaf
1070-1040	Pre-cast Watertank - Rebar Fixing of Upper Part Wall	6	19-Nov-15		19-Nov-15		0		Pre-cast Watertank - Fistan Coa
070-1050	Pre-cast Watertank - Erect Formworks + Concreting	4	26-Nov-15		26-Nov-15		0		Pre-cast Water
070-1080	Pre-cast Watertank - Removal of formworks + CJ Preparation	2	01-Dec-15		01-Dec-15		0		Pre-cast Water
070-1070		3	03-Dec-15		03-Dec-15		0		Pre-cas
070-1080	Pre-cast Watertank - Install Scaffolding + Platform Pre-cast Watertank - Rebar Fixing of Watertank Soffit	6	03-Dec-15		07-Dec-15		0		
070-1090		3					0		
	Pre-cast Watertank - Install Hoisting Bar Support		14-Dec-15		14-Dec-15		0		
070-1110	Pre-cast Watertank - Erect Formworks + Concreting	2	17-Dec-15		17-Dec-15 19-Dec-15		0		
1070-1120	Pre-cast Watertank - Removal of Scaffolding & Formworks + Cleaning of Tank		19-Dec-15 21-Dec-15		21-Dec-15		0		
1070-1130	Pre-cast Watertank - waterproofing and Water Test Pre-cast Watertank - Transfer and Fixing of Pre-cast Watertank at EVB						0		
1070-1140	Stair(03)-1 - Install Scaffolding and Platform + Formworks	6	02-Jan-16 05-Jan-16		05-Jan-16		0		
1070-1150	Stair(03)-1 - Instail Scalibility and Flatform + Formworks Stair(03)-1 - Rebar Fixing + Concreting	6	12-Jan-16		12-Jan-16		0		
		5					0		
1070-1170 1070-1180	Stair(03)-2 - Install Scaffolding and Platform + Formworks Stair(03)-2 - Rebar Fixing + Concreting		19-Jan-16		19-Jan-16		0		
	rer Tunnel Ch 4932-5149	2	25-Jan-16	26-Jan-16	25-Jan-16	20-Jali-10	0		
	rer Tunnel Cn 4932-3149 Miscellaneous Works								
	Complete Remaining work at C/C Tunnel	0	1	16 Nov 1E	Ì	16 Nov 15	0		▲ Complete Remaining work, at C/C
0525-1340		0		16-Nov-15		16-Nov-15	0		♦ Complete Remaining work at C/C
	3 OF THE WORKS								
610-1460	Construct W/B Bridge Pier 29 > Bearring	0	20-Oct-15	20 Oct 15	20-Oct-15	20-Oct-15		er 29 > B	orring
			20-Oct-15					30 > Bear	•
610-1560	Construct W/B Bridge Pier 30 > Bearring	0			20-Oct-15	20-Oct-15			-
610-1660	Construct W/B Bridge Pier 31 > Bearring	0	20-Oct-15		24-Oct-15	24-Oct-15		1 > Bearri	•
0610-1860	Construct W/B Bridge Pier 33 > Bearring	0	20-Oct-15	20-Oct-15	20-Oct-15	20-Oct-15	-	r 33 > Bea	•
0610-1880	W/B Bridge Pier 34 - Tie Beam > Breaking + Excav + Blinding	8	10-Nov-15	18-NOV-15	17-Nov-15	∠5-N0V-15	6		W/B Bridge Pier 34 - Tie Beam

Three Months Rolling Programme (20 Oct 2015 to 19 Jan 2016)

Remaining Work
 Critical Remaining Work

			2016
December 13	20	27	January 03 10 17 24
10	20	2,	Complete Wall & Stair a
		<b>— —</b> •••	cavation at North Side D-Wall - (TA24
			Excavation at North Side D-
			Saw Cutting Preparation
			Saw
FVA -	Coring a	lona Bu	Ilkhead Wall
			EVA - Vertical & Horizontal Saw Cu
			EVA - Pre-Treatment -
			EVA - Removal of Bull
			EVA - Cor
		۲	<ul> <li>Completion 100% of EVB Structure</li> </ul>
			♦ Hando
			·
Slab + Lower	Part Wal	I	
rks + CJ Pre	paration		
s + Concreti			
folding + Pl	atform		
Rebar Fixing	g of Uppe	r Part W	Vall
rtank - Erect	Formwoi	rks + Co	oncreting
			orks + CJ Preparation
st Watertank	- Install S	Scaffoldi	ing + Platform
Pre-cast	Watertan	k - Reba	ar Fixing of Watertank Soffit
Pre	-cast wa	tertank -	- Install Hoisting Bar Support
	Pre-cast V	Vatertai	nk - Erect Formworks + Concreting
	Pre-cast	Waterta	ank - Removal of Scaffolding & Form
			Pre-cast Watertank - waterproofing
			Pre-cast Watertank - Transfer
			Stair(03)-1 - Install
			Stair(03)-
			· · ·
			Sta
Tunnel			
> Breaking	+ Excav +	Blindir	ng
	n	4	12
	Page	e 4 of 1	15

y ID	Activity Name	emainir Duratio	Early Start	Early Finish	Late Start	Late Finish	Total Float	October	2015 November [
0610-1900	Construct W/B Bridge Pier 34 - Tie Beam > CJ + post drill rebar & Construction	14	19-Nov-15	04-Dec-15	24-Dec-15	11-Jan-16	30	11	18         25         01         08         15         22         29         06           Construct V
0610-1900	Construct W/B Bridge Pier 34 - The Bearly C3 + post drill rebar & Construction Construct W/B Bridge Pier 34 Drilling of Starter Bars for Pier/Column	14	10-Nov-15		17-Nov-15		6		Construct W/B Bridge P
0610-1940	Construct W/B Bridge Pier 34 Construct Crosshead	15	26-Nov-15		03-Dec-15		6		
0610-1960	Construct W/B Bridge Pier 34 - Install Bearing	6	14-Dec-15	19-Dec-15			6		
6.3 - Admin Bui		Ŭ	11 200 10	10 200 10	21 200 10	20 200 10	Ŭ		
)630-1120	Grd. Beam - (GL > L-N) - Install Capping Plate	0	20-Oct-15	20-Oct-15	12-Nov-15	12-Nov-15		- Install (	Capping Plate
0630-1140	Grd. Beam - (GL > L-N) - Rebar Fixing for Ground Beam	12	20-Oct-15		12-Nov-15		19		Grd. Beam - (GL > L-N) - Rebar Fixing for Ground Beam
630-1160	Grd. Beam - (GL > L-N) - Erect Formworks for Ground Beam	15	20-Oct-15		12-Nov-15		19		Grd. Beam - (GL > L-N) - Erect Formworks for Grou
630-1180	Grd. Beam - (GL > L-N) - Cast Concrete for Ground Beam	1		07-Nov-15			19		Grd. Beam - (GL > L-N) - Cast Concrete for Groun
30-1200	Grd. Beam - (GL > L-N) - Formworks Removal	1	09-Nov-15		01-Dec-15		19		Grd. Beam - (GL > L-N) - Formworks Removal
30-1880	Grd. Beam - (GL > P-R) - Removal of Existing Sheet Piles	4	12-Jan-16		12-Jan-16		0		
30-1900	Grd. Beam - (GL > P-R) - Excavate to formation level + Blinding Layer Casting	5	16-Jan-16		16-Jan-16		0		
0-1900	Grd. Beam - (GL > P-R) - Install Capping Plate	6	21-Jan-16		21-Jan-16		0		
		7					0		
30-1940 30-2021	Grd. Beam - (GL > P-R) - Rebar Fixing for Beam Grd. Beam - (GL > C-F)-Portion VB < By Others > Excav. to formation level + Blinding Layer		25-Jan-16		25-Jan-16		4		Grd. Beam - (GL > C-F)-Portion
	Casting	2	19-Nov-15		24-Nov-15				Grd. Beam - (GL > C-I )-F Ortion
30-2040	Grd. Beam - (GL > C-F)-Portion VB < By Others > Install Capping Plate	3	21-Nov-15		26-Nov-15		4		Grd. Beam - (GL > C-r-)-P
30-2080	Grd. Beam - (GL > C-F)-Portion VB < By Others > Rebar Fixing for Ground Beam	9		02-Dec-15			4		Gid. Bearin - ("
0-2100	Grd. Beam - (GL > C-F)-Portion VB < By Others > Erect Formworks for Ground Beam	4	02-Dec-15		07-Dec-15		4		
0-2120	Grd. Beam - (GL > C-F)-Portion VB < By Others > Cast Concrete for Ground Beam	1		07-Dec-15			4		∎ Grd. Bi ∎ Grd. 1
-2140	Grd. Beam - (GL > C-F)-Portion VB < By Others > Formworks Removal	1	08-Dec-15		12-Dec-15		4		Gra.
0-2141	Grd. Beam -Portion VD - Excavate to formation level + Blinding Layer Casting	3	09-Dec-15		14-Dec-15		4		· · · · · · · · · · · · · · · · · · ·
0-2142	Grd. Beam -Portion VD - Install Capping Plate	4		16-Dec-15			4		
80-2143	Grd. Beam -Portion VD - Rebar Fixing for Ground Beam	11	15-Dec-15	28-Dec-15			4		
)-2144	Grd. Beam -Portion VD - Erect Formworks for Ground Beam	5	28-Dec-15	02-Jan-16			4		
)-2145	Grd. Beam -Portion VD - Cast Concrete for Ground Beam	1	04-Jan-16		08-Jan-16		4		
-2146	Grd. Beam -Portion VD - Formworks Removal	2	05-Jan-16	06-Jan-16	09-Jan-16	11-Jan-16	4		
0-2440	Complete ADB Ground Beam (Portion VB & VD)	0		11-Jan-16		11-Jan-16	0		
80-2441	ADB Drilling & Starter Bar Fixing - Cleaning + Setting out & Marking (to be confirmed)	5	07-Jan-16	12-Jan-16	12-Jan-16	16-Jan-16	4		
0-2442	ADB Drilling & Starter Bar Fixing - Structural Walls @ 4 Gang (to be confirmed)	15	13-Jan-16	29-Jan-16	18-Jan-16	03-Feb-16	4		
0-2443	ADB Drilling & Starter Bar Fixing - Drilling of Non structural Walls @ 4 Gang (to be confirmed)	15	13-Jan-16	29-Jan-16	18-Jan-16	03-Feb-16	4		
0-1000	Grd. Beam - (GL > B-C) - Removal of Steel Moulds	0	20-Oct-15	20-Oct-15	20-Oct-15	20-Oct-15			(GL > B-C) - Removal of Steel Moulds
0-1010	Grd. Beam - (GL > B-C) - Working Platform Removal & Wailing Removal	0	20-Oct-15	20-Oct-15	20-Oct-15	20-Oct-15		Grd. B	eam - (GL > B-C) - Working Platform Removal & Wailing Removal
0-1020	Grd. Beam - (GL > B-C) - Backfill	0	20-Oct-15	20-Oct-15	20-Oct-15	20-Oct-15			Grd. Beam - (GL > B-C) - Backfill
00-1030	Grd. Beam - (GL > B-C) - Removal of Existing Sheet Piles	1	20-Oct-15	20-Oct-15	20-Oct-15	20-Oct-15	0		Grd. Beam - (GL > B-C) - Removal of Existing Sheet Piles
00-1040	Grd. Beam - (GL > B-C) - Blinding Layer Casting	1	22-Oct-15	22-Oct-15	22-Oct-15	22-Oct-15	0		Grd. Beam - (GL > B-C) - Blinding Layer Casting
00-1050	Grd. Beam - (GL > B-C) - H-Pile trimming & Cutting of Casing	2	23-Oct-15	24-Oct-15	23-Oct-15	24-Oct-15	0		Grd. Beam - (GL > B-C) - H-Pile trimming & Cutting of Casing
00-1060	Grd. Beam - (GL > B-C) - Capping Plate Welding / U Bars Welding (9nos)	3	26-Oct-15	28-Oct-15	26-Oct-15	28-Oct-15	0		Grd. Beam - (GL > B-C) - Capping Plate Welding / U Bars Weld
00-1070	Grd. Beam - (GL > B-C) - Reinforcement Fixing	3	29-Oct-15	31-Oct-15	29-Oct-15	31-Oct-15	0		Grd. Beam - (GL > B-C) - Reinforcement Fixing
00-1080	Grd. Beam - (GL > B-C) - Formworks Erection	2	02-Nov-15	03-Nov-15	02-Nov-15	03-Nov-15	0		Grd. Beam - (GL > B-C) - Formworks Erection
00-1090	Grd. Beam - (GL > B-C) - Concreting	1	04-Nov-15	04-Nov-15	04-Nov-15	04-Nov-15	0		Grd. Beam - (GL > B-C) - Concreting
00-1100	Grd. Beam - (GL > B-C) - Formwork Removal	1	05-Nov-15	05-Nov-15	05-Nov-15	05-Nov-15	0		Grd. Beam - (GL > B-C) - Formwork Removal
00-1110	Grd. Beam - (GL > F-G) - Backfill	0	20-Oct-15	20-Oct-15	20-Oct-15	20-Oct-15	8		_ > F-G) - Backfill
00-1120	Grd. Beam - (GL > F-G) - Excavation & Old Cap Cutting + Sheet Piling	0	20-Oct-15	20-Oct-15	20-Oct-15	20-Oct-15		Grd. Be	am - (GL > F-G) - Excavation & Old Cap Cutting + Sheet Piling

Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work

## Contract HY/2009/19 Three Months Rolling Programme (20 Oct 2015 to 19 Jan 2016)

				2016		
December	00	07		January	47	104
13 at W/P Pride	20 10 Dior 24	27 Tio P	03 eam > CJ + p	10	hor 8 Cou	24
c			ars for Pier/C			
			r 34 Construc		ad	
	Construc	t W/B E	Bridge Pier 34	4 - Install E	Bearing	
am ound Beam						
und Beam						
al						
					Grd. Bear	n - ((
						Grd. I
on VB < By	Others > F	- - - - - - - - - - - - - - - - - - -	o formation le	ovel + Blin	dinglave	ar Ca
			stall Capping			
			Others > Rel		for Groun	d Be
			< By Others >			
			′B < By Other			
			VB < By Othe cavate to for			
			VD - Install C			ing i
			d. Beam -Por			ing f
			Grd. Bea	m -Portior	n VD - Ere	ect F
				Beam -Por		
			📕 Gro	d. Beam -F		
					lete ADB	
					B Drilling 8	• Sta
lding (9nos	)					

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ity ID	Activity Name	emaini Juratio	r Early Start	Early Finish	Late Start	Late Finish	Total Float	October	2015 November [ 18 25 01 08 15 22 20 06 ]
0700-1130	Grd. Beam - (GL > F-G) - Tie Beam Construction	0	20-Oct-15	20-Oct-15	20-Oct-15	20-Oct-15	1		18         25         01         08         15         22         29         06           Grd. Beam - (GL > F-G) - Tie Beam Construction
0700-1140	Grd. Beam - (GL > F-G) - Backfill	3	20-Oct-15	23-Oct-15	22-Oct-15	24-Oct-15	1		Grd. Beam - (GL > F-G) - Backfill
0700-1150	Grd. Beam - (GL > F-G) - (Part A) - Blinding Layer Casting	1	24-Oct-15	24-Oct-15	26-Oct-15	26-Oct-15	1		Grd. Beam - (GL > F-G) - (Part A) - Blinding Layer Casting
0700-1160	Grd. Beam - (GL > F-G) - (Part A) - H-Pile Trimming / Cutting Casing	1	26-Oct-15	26-Oct-15	27-Oct-15	27-Oct-15	1		Grd. Beam - (GL > F-G) - (Part A) - H-Pile Trimming / Cutting Casing
0700-1170	Grd. Beam - (GL > F-G) - (Part A) - Capping Plate Welding / U Bars Welding	1	27-Oct-15	27-Oct-15	28-Oct-15	28-Oct-15	1		Grd. Beam - (GL > F-G) - (Part A) - Capping Plate Welding / U Bar
0700-1180	Grd. Beam - (GL > F-G) - (Part A) - Reinforcement Fixing	3	28-Oct-15	30-Oct-15	29-Oct-15	31-Oct-15	1		Grd. Beam - (GL > F-G) - (Part A) - Reinforcement Fixing
0700-1190	Grd. Beam - (GL > F-G) - (Part A) - Formworks Erection	2	31-Oct-15	02-Nov-15	02-Nov-15	03-Nov-15	1		Grd. Beam - (GL > F-G) - (Part A) - Formworks Erection
0700-1200	Grd. Beam - (GL > F-G) - (Part A) - Concreting	1	03-Nov-15	03-Nov-15	04-Nov-15	04-Nov-15	1		Grd. Beam - (GL > F-G) - (Part A) - Concreting
0700-1210	Grd. Beam - (GL > F-G) - (Part A) - Formwork Removal	1	04-Nov-15	04-Nov-15	05-Nov-15	05-Nov-15	1		Grd. Beam - (GL > F-G) - (Part A) - Formwork Removal
0700-1220	Grd. Beam - (GL > F-G) - (Part B) - Blinding Layer Casting	0	20-Oct-15	20-Oct-15	29-Oct-15	29-Oct-15		Beam - (	SL > F-G) - (Part B) - Blinding Layer Casting
0700-1230	Grd. Beam - (GL > F-G) - (Part B) - H-Pile Trimming / Cutting Casing	0	20-Oct-15	20-Oct-15	29-Oct-15	29-Oct-15		Grd. Bear	n - (GL > F-G) - (Part B) - H-Pile Trimming / Cutting Casing
0700-1240	Grd. Beam - (GL > F-G) - (Part B) - Capping Plate Welding / U Bars Welding	0	20-Oct-15	20-Oct-15	29-Oct-15	29-Oct-15			eam - (GL > F-G) - (Part B) - Capping Plate Welding / U Bars Welding
0700-1250	Grd. Beam - (GL > F-G) - (Part B) - Reinforcement Fixing	0	20-Oct-15	20-Oct-15	29-Oct-15	29-Oct-15			Grd. Beam - (GL > F-G) - (Part B) - Reinforcement Fixing
0700-1260	Grd. Beam - (GL > F-G) - (Part B) - Formworks Erection	2	20-Oct-15		29-Oct-15	30-Oct-15	7		Grd. Beam - (GL > F-G) - (Part B) - Formworks Erection
0700-1270	Grd. Beam - (GL > F-G) - (Part B) - Concreting	1	23-Oct-15				7		Grd. Beam - (GL > F-G) - (Part B) - Concreting
0700-1280	Grd. Beam - (GL > F-G) - (Part B) - Formwork Removal	1	24-Oct-15			02-Nov-15	7		Grd. Beam - (GL > F-G) - (Part B) - Formwork Removal
0700-1290	Grd. Beam - (GL > K-L) - Backfill	0	20-Oct-15		27-Oct-15			am - (GL	> K-L) - Backfill
0700-1300	Grd. Beam - (GL > K-L) - Removal of existing Sheet Pile	0	20-Oct-15		27-Oct-15				- > K-L) - Removal of existing Sheet Pile
0700-1310	Grd. Beam - (GL > K-L) - Blinding Layer Casting	0	20-Oct-15						GL > K-L) - Blinding Layer Casting
0700-1320	Grd. Beam - (GL > K-L) - H-Pile Trimming / Cutting Casing	0	20-Oct-15		27-Oct-15			``	n - (GL > K-L) - H-Pile Trimming / Cutting Casing
0700-1330	Grd. Beam - (GL > K-L) - Capping Plate Welding / U Bars Welding	0	20-Oct-15		27-Oct-15				Beam - (GL > K-L) - Capping Plate Welding / U Bars Welding
0700-1340	Grd. Beam - (GL > K-L) - Reinforcement Fixing	1	20-Oct-15		27-Oct-15		5		Grd. Beam - (GL > K-L) - Reinforcement Fixing
0700-1350	Grd. Beam - (GL > K-L) - Formworks Erection	3	22-Oct-15				5		Grd. Beam - (GL > K-L) - Formworks Erection
0700-1360	Grd. Beam - (GL > K-L) - Concreting	1	26-Oct-15		31-Oct-15		5		■ Grd. Beam - (GL > K-L) - Concreting
0700-1370	Grd. Beam - (GL > K-L) - Formwork Removal	1	27-Oct-15			02-Nov-15	5		Grd. Beam - (GL > K-L) - Formwork Removal
0700-1380	Storm Water Drain at Portion VB	5	21-Nov-15			07-Dec-15	9		Storm Water Drain at F
0700-1390	Install Irrigation Watermain within Portion V	5	21-Nov-15	26-Nov-15			14		Install Irrigation Water
0700-1400	Construction of pile cap for PC21	0	20-Oct-15			24-Dec-16	14		Construction of pile cap for PC21
0700-1410	Construction of pile cap for PC22	0		20-Oct-15				nstruction	of pile cap for PC22
0700-1420	Construction of Column for Landscape Dect at PC21 & 22 up to Gnd Level	18	10-Nov-15			13-Jan-17	339		Construction of C
0700-1420	Install underground drainage at Portion VB	7		28-Nov-15			7		
0700-1430	Construct Road Pavement Between P31-32 within Porion VB incl sub-base	21					3		
0700-1440	Remove Temp Container/Storage within Admin Area	9		29-Dec-15 09-Dec-15			19		Rer
		9					3		
0700-1460	Erect Temporary/Removable Hoarding along portion VB Modify Temporary Support of Pier obstructing construction of ADB along Portion VB		30-Dec-15			13-Jan-16			Modify Temp
A1540	, , , , , , , , , , , , , , , , , , , ,	25	05-Nov-15	03-Dec-15	11-Oct-19	08-Nov-19	1179		
08 - SECTION	N 3 WORK								
0810-1650	Retaining Wall F > Temp Excav Support/Open cut Excav works	18	20-Oct-15	10 Nov 15	08 Jup 16	29-Jun-16	190		Retaining Wall F > Temp Excav Support/Ope
0810-1650	Retaining Wall F > Excavation Works for Pile caps	21	20-Oct-15		16-Jun-16		190		Retaining Wall F > Excavation
									Construction of pile cap for
0810-1670	Construction of pile cap for Retaining Wall F @ PC8	21	30-Oct-15		18-Jun-16		190	notruction	of pile cap for Retaining Wall F @ PC9
0810-1680	Construction of pile cap for Retaining Wall F @ PC9	0	09-Nov-15						
0810-1700	Construction of pile cap for Retaining Wall F @ PC10	0	09-Nov-15			28-Jun-16			of pile cap for Retaining Wall F @ PC10 of pile cap for Retaining Wall F @ PC11
0810-1720	Construction of pile cap for Retaining Wall F @ PC11	0	09-Nov-15	09-Nov-15	28-Jun-16	28-Jun-16		nstructior	or prie cap for Retaining wall F @ PC11

Remaining Level of Effort   Milestone		
Actual Level of Effort	Contract UV/2000/40	
Actual Work	Contract HY/2009/19	
Remaining Work	Three Months Rolling Programme (20 Oct 2015 to 19 Jan 2016)	
Critical Remaining Work		

December				2016 January		
13	20	27	03	10	17	24
asing						
Bars Welding	, ,					
on						
ioval						
n at Portion VE	}					
atermain with	in Portion	V				
of Column fo	r Landsca	pe Dect	at PC21 &			i
ound drainage	at Portior	n VB				
			Instruct Roa	ad Pavemei	nt Betwe	en P
Remove Tem	pContaine	er/Stora	gewithin A	dmin Area		
Remove lem				Erect Terr	porary/	Remo
emporary Sup	port of Pie	er obstru	cting const	ruction of A	DB alor	ng Po
. , ,			0			
Open cut Exca	av works					
ation Works for						
p for Retaining	];Wall F (	@ PC8				
		_				
	Page	6 of 1	3			

ty ID	Activity Name	emaini Juratio	r Early Start	Early Finish	Late Start	Late Finish	Total Float	October	2015 November
0810-1740	Construction of pile cap for Retaining Wall F @ PC12	21	09-Nov-15	02-Dec-15	28-Jun-16	22-Jul-16	190	11	18 25 01 08 15 22 29 06 Construction
0810-1760	Construction of pile cap for Retaining Wall F @ PC13	21	25-Nov-15		15-Jul-16	08-Aug-16	190		
0810-1780	Backfill of Retaining Wall F Pile Caps	7	19-Dec-15	28-Dec-15	14-Jan-17	21-Jan-17	323		
0820-1000	low wall bet C4-13/14	5	24-Nov-15	28-Nov-15	06-Jan-17	11-Jan-17	338		low wall bet C4-13
0820-1010	low wall bet C5-11/12	7	24-Nov-15	01-Dec-15	06-Jan-17	13-Jan-17	338		low wall bet C
09 - SECTION	6 OF THE WORKS								
09.2 - Westboun									
0920-1080	Pier 27 Prepare C.J. for Column Construction	0	20-Oct-15	20-Oct-15	12-Jan-16	12-Jan-16		are C.J. f	or Column Construction
0920-1100	Pier 27 Construct Pier/Column	0	20-Oct-15	20-Oct-15	12-Jan-16	12-Jan-16		Pi	er 27 Construct Pier/Column
0920-1120	Pier 27 Construct Crosshead	23	20-Oct-15	16-Nov-15	12-Jan-16	06-Feb-16	69	•••••	Pier 27 Construct Crosshead
0920-1140	Pier 27 Install Bearing	9	16-Nov-15	26-Nov-15	11-Feb-16	20-Feb-16	69		Pier 27 Install Bearing
0920-1160	Pier 26 Prepare C.J. for Column Construction	0	20-Oct-15	20-Oct-15	04-Jan-16	04-Jan-16		Pier 26 P	epare C.J. for Column Construction
0920-1180	Pier 26 Construct Pier/Column	17	20-Oct-15	10-Nov-15	04-Jan-16	23-Jan-16	63		Pier 26 Construct Pier/Column
0920-1200	Pier 26 Construct Crosshead	24	10-Nov-15	08-Dec-15	25-Jan-16	24-Feb-16	63		Pier 26 Construct Pier/Column Pier 2
0920-1220	Pier 26 Install Bearing	9	08-Dec-15	18-Dec-15	25-Feb-16	05-Mar-16	63		
10 - SECTION	X OF THE WORKS		<u> </u>						
10.4 - Bridge De	ck Demolition								
10.4.1 - Existing	W/B Bridge (Part 1)								
10410-1749	Dem. W/B Bridge Deck Pier 17-18 (1 beam) > by Crane B	0	20-Oct-15	20-Oct-15	24-Mar-16	24-Mar-16		17-18 (1	beam) >by Crane B
10410-1750	Demolish W/B Bridge Deck Pier 17-18 (1 beam) > by Crane B	0	20-Oct-15	20-Oct-15	24-Mar-16	24-Mar-16		eck Pier 1	7-18 (1 beam) > by Crane B
10410-1753	Demolish W/B Bridge Deck Pier 18-19 (2 beams) > Saw Cutting of Bridge Deck & Parapet +	0	20-Oct-15	20-Oct-15	24-Mar-16	24-Mar-16		lish W/B	Bridge Deck Pier 18-19 (2 beams) > Saw Cutting of Bridge Deck & Parapet +
10410-1754	Coring Dem. W/B Bridge Deck Pier 18-19 (Half Beam-Eastside) w/ time constraint start at 4Pm > by	0	20-Oct-15	20-Oct-15	24-Mar-16	24-Mar-16		i. W/B Bri	dge Deck Pier 18-19 (Half Beam-Eastside) w/ time constraint start at 4Pm > b
10410-1755	Crane D Demolish W/B Bridge Deck Pier 18-19 (Half Beam-Eastside) > by Crane D	0	20-Oct-15	20-Oct-15	24-Mar-16	24-Mar-16			B Bridge Deck Pier 18-19 (Half Beam-Eastside) > by Crane D
10410-1756	Dem. W/B Bridge Deck Pier 18-19 (Half Beam-Westside) w/ time constraint start at 4Pm > by	0	20-Oct-15	20-Oct-15	24-Mar-16	24-Mar-16		em. W/B	Bridge Deck Pier 18-19 (Half Beam-Westside) w/ time constraint start at 4Pm
10410-1757	Demolish W/B Bridge Deck Pier 18-19 (Half Beam-Westside) > by Crane D	0	20-Oct-15	20-Oct-15	24-Mar-16	24-Mar-16		Demolish	W/B Bridge Deck Pier 18-19 (Half Beam-Westside) > by Crane D
10410-1760	Cutting of W/B Bridge Crosshead Wing at Pier 19 for Modification > by Crane D	0	20-Oct-15	20-Oct-15	29-Mar-16	29-Mar-16			Cutting of W/B Bridge Crosshead Wing at Pier 19 for Modification > by Crane
10410-1761	Cutting of W/B Bridge Crosshead Wing at Pier 18 for Modification > by Crane D	2	20-Oct-15	22-Oct-15	24-Mar-16	26-Mar-16	128		Cutting of W/B Bridge Crosshead Wing at Pier 18 for Modification > by
10410-1762	Removal of Shoring	0	20-Oct-15	20-Oct-15	22-Apr-16	22-Apr-16		🗖 Rer	noval of Shoring
10410-1763	Removal of Temporary Footing	0	20-Oct-15	20-Oct-15	22-Apr-16	22-Apr-16		R	emoval of Temporary Footing
10410-2400	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 38	0	20-Oct-15	20-Oct-15	20-Oct-15	20-Oct-15		Bridge -	Crosshead & Pier > Pier 38
10410-2420	Demolish Temp. W/B Bridge - Deck > Pier 36 to 37 (6 beams)	0	20-Oct-15	20-Oct-15	20-Oct-15	20-Oct-15		np.W/B	Bridge - Deck > Pier 36 to 37 (6 beams)
10410-2440	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 37	0	20-Oct-15	20-Oct-15	20-Oct-15	20-Oct-15		Demolis	sh Temp. W/B Bridge - Crosshead & Pier > Pier 37
10410-2460	Demolish Temp. W/B Bridge - Deck > Pier 34 to 35 (6 beams)	0	20-Oct-15	20-Oct-15	20-Oct-15	20-Oct-15			Demolish Temp. W/B Bridge - Deck > Pier 34 to 35 (6 beams)
10410-2480	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 36	6	24-Oct-15	30-Oct-15	24-Oct-15	30-Oct-15	0		Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 36
10410-2500	Demolish Temp. W/B Bridge - Deck > Pier 35 to 36 (6 beams)	3	20-Oct-15	23-Oct-15	20-Oct-15	23-Oct-15	0		Demolish Temp. W/B Bridge - Deck > Pier 35 to 36 (6 beams)
10410-2520	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 35 (by crane)	6	03-Nov-15	09-Nov-15	10-Nov-15	16-Nov-15	6		Demolish Temp. W/B Bridge - Crosshead & F
10410-2540	Demolish Temp. W/B Bridge - Crosshead & Pier > Pier 34 (by crane)	6	03-Nov-15	09-Nov-15	10-Nov-15	16-Nov-15	6		Demolish Temp. W/B Bridge - Crosshead & F
10.1 - E/B Bridge	es (Bridge D, E and F)								
10.1.1 - Marine P	ier Construction								
Pier F01 to F02									
1011-8600	F1B Pier/Column Construction	12	20-Oct-15	03-Nov-15	29-Oct-15	11-Nov-15	7		F1B Pier/Column Construction
1011-8620	F1B Crosshead Construction	18	04-Nov-15	24-Nov-15	12-Nov-15	02-Dec-15	7		F1B Crosshead Constru
1011-8640	Bearing installation pier F1B & F2B	10	25-Nov-15	08 Doc 15	03-Dec-15	16-Dec-15	7	+	Bear

Actual Level of Effort		
Actual Work	Contract HY/2009/19	
Remaining Work	Three Months Rolling Programme (20 Oct 2015 to 19 Jan 2016)	
Critical Remaining Work		

December	2016	
13 20 27	January 03 10	17 24
n of pile cap for Retaining W		
Construction of p	ile cap for Retaining V	Vall F @ PC13
Ba	ckfill of Retaining Wal	I F Pile Caps
3/14		
C5-11/12		
35-11/12		
ng		
r 26 Construct Crosshead		
Pier 26 Install Bea	aring	
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		-
+ Coring		
by Crane D		
m > by Crone D		
m > by Crane D		
ne D		
Crane D		
Pier > Pier 35 (by crane)		
Pier > Pier 34 (by crane)		
uction		
aring installation pier F1B &	F2B	
3	-	
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ID	Activity Name	Juratio	ir Early Start	Early Finish	Late Start	Late Finish	Total Float	October	2015 November 18 25 01 08 15 22 29 0
0.1.4 - Bridge E	E / Hing Fat Slip Road						<u> </u>		
Bridge Constru	uction								
1014-1880	Construction (Pier E4 - Pier E2) > Construct Crosshead + Bearing at Pier E3	0	20-Oct-15	20-Oct-15	26-Oct-15	26-Oct-15		(Pier E4 F	Pier E2) > Construct Crosshead + Bearing at Pier E3
1014-1900	Construction (Pier E4 - Pier E2) > Modification of Crosshead + Bearing at Pier E4 & E2	0	20-Oct-15	20-Oct-15	08-Nov-19	08-Nov-19		r E4 - Pier	E2) > Modification of Crosshead + Bearing at Pier E4 & E2
1014-1920	Construction (Pier E4 - Pier E2) > Erect 3nos Beams > Pier E3-E2	0	20-Oct-15	20-Oct-15	26-Oct-15	26-Oct-15		· ·	E4 - Pier E2) > Erect 3nos Beams > Pier E3-E2
1014-1940	Construction (Pier E4 - Pier E2) > Erect 3nos Beams > Pier E4-E3	0	20-Oct-15	20-Oct-15	08-Nov-19	08-Nov-19		Construct	ion (Pier E4 - Pier E2) > Erect 3nos Beams > Pier E4-E3
1015-1950	Bridge E (Pier E2 - E3) - Planking	0	20-Oct-15	20-Oct-15	26-Oct-15	26-Oct-15		Bridge	E (Pier E2 - E3) - Planking
1015-1960	Bridge E (Pier E2 - E3) - Scaffolding	0	20-Oct-15	20-Oct-15	26-Oct-15	26-Oct-15		Bri	dge E (Pier E2 - E3) - Scaffolding
1015-1970	Bridge E (Pier E2 - E3) - Soffit Formworks	1	20-Oct-15	20-Oct-15	26-Oct-15	26-Oct-15	4		Bridge E (Pier E2 - E3) - Soffit Formworks
1015-1980	Bridge E (Pier E2 - E3) - (Diaphgram + Decking) - Rebar Fixing	3	22-Oct-15	24-Oct-15	27-Oct-15	29-Oct-15	4		Bridge E (Pier E2 - E3) - (Diaphgram + Decking) - Rebar Fixin
1015-1990	Bridge E (Pier E2 - E3) - D(Diaphgram + Decking) - Install Shutter	1	24-Oct-15	24-Oct-15	29-Oct-15	29-Oct-15	4		Bridge E (Pier E2 - E3) - D(Diaphgram + Decking) - Install Sh
1015-2000	Bridge E (Pier E2 - E3) - (Diaphgram + Decking) - Concreting	1	26-Oct-15	26-Oct-15	30-Oct-15	30-Oct-15	4		Bridge E (Pier E2 - E3) - (Diaphgram + Decking) - Concret
1015-2010	Bridge E (Pier E2 - E3) - (Wing Extension) - Hanger platform (Sea Side)	5	27-Oct-15	31-Oct-15	31-Oct-15	05-Nov-15	4		Bridge E (Pier E2 - E3) - (Wing Extension) - Hanger
1015-2020	Bridge E (Pier E2 - E3) - (Wing Extension) - Rebar fixing	3	02-Nov-15	04-Nov-15	06-Nov-15	09-Nov-15	4		Bridge E (Pier E2 - E3) - (Wing Extension) - Re
1015-2030	Bridge E (Pier E2 - E3) - (Wing Extension) - Install shutter	1	04-Nov-15	04-Nov-15	09-Nov-15	09-Nov-15	4	1	Bridge E (Pier E2 - E3) - (Wing Extension) - In
1015-2040	Bridge E (Pier E2 - E3) - (Wing Extension) - Concreting	1	05-Nov-15	05-Nov-15	10-Nov-15	10-Nov-15	4		Bridge E (Pier E2 - E3) - (Wing Extension) -
1015-2050	Bridge E (Pier E2 - E3) - Parapet - Stage 2	6	06-Nov-15	12-Nov-15	11-Nov-15	17-Nov-15	4		Bridge E (Pier E2 - E3) - Parapet -
1015-2060	Bridge E (Pier E2 - E3) - Duct Laying - Satage 2	6	06-Nov-15	12-Nov-15	12-Nov-15	18-Nov-15	5		Bridge E (Pier E2 - E3) - Duct Layi
1015-2070	Bridge E (Pier E2 - E3) - M.J	2	13-Nov-15	14-Nov-15	19-Nov-15	20-Nov-15	5		Bridge E (Pier E2 - E3) - M.J
1015-2080	Bridge E (Pier E2 - E3) - L3 Railing - Stage 2	3	13-Nov-15	16-Nov-15	18-Nov-15	20-Nov-15	4		Bridge E (Pier E2 - E3) - L3
1015-2090	Bridge E (Pier E2 - E3) - Asphalt	3	17-Nov-15	19-Nov-15	21-Nov-15	24-Nov-15	4		Bridge E (Pier E2 - E3) -
1015-2100	Bridge E (Pier E2 - E3) - Road Marking	2	20-Nov-15	21-Nov-15	25-Nov-15	26-Nov-15	4		Bridge E (Pier E2 - E
1015-2110	Bridge E (Pier E2 - E3) - Parapet - Stage 1	6	27-Oct-15	02-Nov-15	04-Nov-15	10-Nov-15	7		Bridge E (Pier E2 - E3) - Parapet - Stage 1
1015-2120	Bridge E (Pier E2 - E3) - Duct Laying - Satage 1	6	27-Oct-15	02-Nov-15	05-Nov-15	11-Nov-15	8		Bridge E (Pier E2 - E3) - Duct Laying - Satage 1
1015-2130	Bridge E (Pier E2 - E3) - L3 Railing - Stage 1	4	03-Nov-15	06-Nov-15	13-Nov-15	17-Nov-15	9		Bridge E (Pier E2 - E3) - L3 Railing - Stage
1015-2140	Bridge E (Pier E3 - E4) - Planking	0	20-Oct-15	20-Oct-15	08-Nov-19	08-Nov-19		ge E (Pier E	E3 - E4) - Planking
1015-2150	Bridge E (Pier E3 - E4) - Scaffolding	0	20-Oct-15	20-Oct-15	08-Nov-19	08-Nov-19		Bridge	E (Pier E3 - E4) - Scaffolding
1015-2160	Bridge E (Pier E3 - E4) - Soffit Formwork	0	20-Oct-15	20-Oct-15	08-Nov-19	08-Nov-19		🗖 Bri	ldge E (Pier E3 - E4) - Soffit Formwork
1015-2170	Bridge E (Pier E3 - E4) - (Diaphgram + Additional Diaphgram + Decking) - Rebar Fixing	2	20-Oct-15	22-Oct-15	31-Oct-15	02-Nov-15	9		Bridge E (Pier E3 - E4) - (Diaphgram + Additional Diaphgram + I
1015-2180	Bridge E (Pier E3 - E4) - (Diaphgram + Additional Diaphgram + Decking) - Shutter	1	22-Oct-15	22-Oct-15	02-Nov-15	02-Nov-15	9		Bridge E (Pier E3 - E4) - (Diaphgram + Additional Diaphgram +
1015-2190	Bridge E (Pier E3 - E4) - (Diaphgram + Additional Diaphgram + Decking) - Concreting	1	23-Oct-15	23-Oct-15	03-Nov-15	03-Nov-15	9		Bridge E (Pier E3 - E4) - (Diaphgram + Additional Diaphgram +
1015-2200	Bridge E (Pier E3 - E4) - Parapet	7	23-Oct-15	30-Oct-15	03-Nov-15	10-Nov-15	9		Bridge E (Pier E3 - E4) - Parapet
1015-2210	Bridge E (Pier E3 - E4) - Drain Pipe Laying	7	23-Oct-15	30-Oct-15	03-Nov-15	10-Nov-15	9		Bridge E (Pier E3 - E4) - Drain Pipe Laying
1015-2220	Bridge E (Pier E3 - E4) - M.J	2	31-Oct-15	02-Nov-15	11-Nov-15	12-Nov-15	9		Bridge E (Pier E3 - E4) - M.J
1015-2230	Bridge E (Pier E3 - E4) - L3 Railing	7	03-Nov-15	10-Nov-15	13-Nov-15	20-Nov-15	9		Bridge E (Pier E3 - E4) - L3 Railing
1015-2240	Bridge E (Pier E3 - E4) - Asphalt	3	11-Nov-15	13-Nov-15	21-Nov-15	24-Nov-15	9		Bridge E (Pier E3 - E4) - Asphalt
1015-2250	Bridge E (Pier E3 - E4) - Road Marking	2	14-Nov-15	16-Nov-15	25-Nov-15	26-Nov-15	9		Bridge E (Pier E3 - E4) - Roa
1015-2260	Bridge E (Pier E4 towards HFS-Rd) - Scaffolding	0	20-Oct-15	20-Oct-15	08-Nov-19	08-Nov-19			(Pier E4 towards HFS-Rd) - Scaffolding
1015-2270	Bridge E (Pier E4 towards HFS-Rd) - Formwork	0	20-Oct-15	20-Oct-15	08-Nov-19	08-Nov-19		Bri	dge E (Pier E4 towards HFS-Rd) - Formwork
1015-2280	Bridge E (Pier E4 towards HFS-Rd) - Wing Extension	1	20-Oct-15	20-Oct-15	13-Nov-15	13-Nov-15	20		Bridge E (Pier E4 towards HFS-Rd) - Wing Extension
1015-2290	Bridge E (Pier E4 towards HFS-Rd) - Parapet	4	22-Oct-15	26-Oct-15	14-Nov-15	18-Nov-15	20		Bridge E (Pier E4 towards HFS-Rd) - Parapet
1015-2300	Bridge E (Pier E4 towards HFS-Rd) - Draine - pipe Laying	4	22-Oct-15	26-Oct-15	14-Nov-15	18-Nov-15	20		Bridge E (Pier E4 towards HFS-Rd) - Draine - pipe Laying
1015-2310	Bridge E (Pier E4 towards HFS-Rd) - L3 Railing	3	27-Oct-15	29-Oct-15	19-Nov-15	21-Nov-15	20		Bridge E (Pier E4 towards HFS-Rd) - L3 Railing

Remaining Work

Critical Remaining Work

Three Months Rolling Programme (20 Oct 2015 to 19 Jan 2016)

Description				2016		
December 13	20	27	03	January 10	17	24
10	20	21	00	10	17	24
orm (Sea Si	de)					
ixing						
hutter						
reting						
e 2						
atage 2						
g - Stage 2						
alt						
oad Marking	i					
ng) - Rebar	Fixing					
ng) - Shutter						
ing) - Conc	reting					
rking						

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D	Activity Name	emainir Duratior	Start Early Finish	Late Start	Late Finish	Total Float	October	2015 November 18 25 01 08 15 22 29 06
1015-2320	Bridge E (Pier E4 towards HFS-Rd) - Asphalt	2 30-0	Oct-15 31-Oct-15	23-Nov-15	24-Nov-15	20		18         25         01         08         15         22         29         06           □         Bridge E (Pier E4 towards HFS-Rd) - Asphalt
1015-2330	Bridge E (Pier E4 towards HFS-Rd) - Road Marking	2 02-N	Nov-15 03-Nov-15	25-Nov-15	26-Nov-15	20		Bridge E (Pier E4 towards HFS-Rd) - Road Markin
).2 - W/B Bridge	es (Bridge C and F)							
0.2.1 - Pier Cons	struction							
Pier 38 to 43								
1021-1820	Pier 38 (F3C) Prepare C.J. at Existing Pile Cap	0 20-0	Oct-15 20-Oct-15	05-Jan-16	05-Jan-16		Pier 38 (F	3C) Prepare C.J. at Existing Pile Cap
1021-1840	Pier 38 (F3C) Construct Pier/Column	18 20-0	Oct-15 10-Nov-15	05-Jan-16	25-Jan-16	63		Pier 38 (F3C) Construct Pier/Column
1021-1860	Pier 38 (F3C) Construct Crosshead	24 11-N	Nov-15 08-Dec-15	26-Jan-16	25-Feb-16	63		
1021-1880	Pier 38 (F3C) Install Bearing	9 09-D	Dec-15 18-Dec-15	26-Feb-16	07-Mar-16	63		
1021-1900	Pier 39 (F4C) Prepare C.J. at Existing Pile Cap	0 20-0	Oct-15 20-Oct-15	13-Jan-16	13-Jan-16		C) Prepar	e C.J. at Existing Pile Cap
1021-1920	Pier 39 (F4C) Construct Pier/Column	17 20-0	Oct-15 10-Nov-15	13-Jan-16	02-Feb-16	71		Pier 39 (F4C) Construct Pier/Column
1021-1940	Pier 39 (F4C) Construct Crosshead	24 10-N	Nov-15 08-Dec-15	03-Feb-16	04-Mar-16	71		
1021-1960	Pier 39 (F4C) Install Bearing	9 08-D	Dec-15 18-Dec-15	05-Mar-16	15-Mar-16	71		
1021-1980	Pier 40 (F5C) Prepare C.J. at Existing Pile Cap	0 20-0	Oct-15 20-Oct-15	13-Jan-16	13-Jan-16			.J. at Existing Pile Cap
1021-2000	Pier 40 (F5C) Construct Pier/Column	17 20-0	Oct-15 10-Nov-15	13-Jan-16	02-Feb-16	71		Pier 40 (F5C) Construct Pier/Column
1021-2020	Pier 40 (F5C) Construct Crosshead	24 10-N	Nov-15 08-Dec-15	03-Feb-16	04-Mar-16	71		
1021-2040	Pier 40 (F5C) Install Bearing	9 08-E	Dec-15 18-Dec-15	05-Mar-16	15-Mar-16	71		C
1021-2060	Pier 41 (F6C) Prepare C.J. at Existing Pile Cap	0 20-0	Oct-15 20-Oct-15	05-Jan-16	05-Jan-16		pare C.J.	at Existing Pile Cap
1021-2080	Pier 41 (F6C) Construct Pier/Column	18 20-0	Oct-15 10-Nov-15	05-Jan-16	25-Jan-16	63		Pier 41 (F6C) Construct Pier/Column
1021-2100	Pier 41 (F6C) Construct Crosshead	24 11-N	Nov-15 08-Dec-15	23-Feb-16	21-Mar-16	84		
1021-2120	Pier 41 (F6C) Install Bearing	9 09-D	Dec-15 18-Dec-15	22-Mar-16	02-Apr-16	84		
1021-2160	Pier 42 (F7C) Construct Pier/Column	0 20-0	Oct-15 20-Oct-15	13-Jan-16	13-Jan-16			er 42 (F7C) Construct Pier/Column
1021-2180	Pier 42 (F7C) Construct Crosshead	24 20-0	Oct-15 17-Nov-15	17-Mar-16	16-Apr-16	122		Pier 42 (F7C) Construct Cro
1021-2200	Pier 42 (F7C) Install Bearing	9 17-N	Nov-15 27-Nov-15	18-Apr-16	27-Apr-16	122		Pier 42 (F7C)
1021-2240	Pier 43 (F8C) Construct Pier/Column	0 20-0	Oct-15 20-Oct-15	13-Jan-16	13-Jan-16		8C) Cons	struct Pier/Column
1021-2260	Pier 43 (F8C) Construct Crosshead	24 20-0	Oct-15 17-Nov-15	31-Mar-16	28-Apr-16	132		Pier 43 (F8C) Construct Cros
1021-2280	Pier 43 (F8C) Install Bearing	9 18-N	Nov-15 27-Nov-15	29-Apr-16	09-May-16	132		Pier 43 (F8C)
Pier 36 to 37								
1021-1580	Pier 36 (F1C) Prepare CJ at Existing Pile Cap	11 31-0	Oct-15 12-Nov-15	19-Nov-15	01-Dec-15	16		Pier 36 (F1C) Prepare CJ at Existin
1021-1600	Pier 36 (F1C) Construct Pier/Column	18 13-N	Nov-15 03-Dec-15			16		Pier 3
1021-1620	Pier 36 (F1C) Construct Crosshead	24 04-D		23-Dec-15		16		
1021-1640	Pier 36 (F1C) Install Bearing	9 04-J	Jan-16 13-Jan-16	22-Jan-16	01-Feb-16	16		
1021-1660	Pier 37 (F2C) Prepare CJ at Existing Pile Cap	11 20-0	Oct-15 02-Nov-15	09-Dec-15	21-Dec-15	42		Pier 37 (F2C) Prepare CJ at Existing Pile Cap
1021-1680	Pier 37 (F2C) Construct Pier/Column	18 03-N	Nov-15 23-Nov-15	22-Dec-15	13-Jan-16	42		Pier 37 (F2C) Cons
1021-1700	Pier 37 (F2C) Construct Crosshead	24 24-N	Nov-15 21-Dec-15	14-Jan-16	13-Feb-16	42		
1021-1720	Pier 37 (F2C) Install Bearing	9 22-D	Dec-15 02-Jan-16	15-Feb-16	24-Feb-16	42		
Abutment D12		· · ·						
	Construct Abutment D12 W/B Bridge			08-Dec-15		24		
1021-1040	Bearing installation D12 W/B Bridge	9 15-E	Dec-15 24-Dec-15	14-Jan-16	23-Jan-16	24		
Pier 28								
1021-1760	Pier 28 Construct Pier/Column				26-Oct-15		istruct Pie	
1021-1780	Pier 28 Construct Crosshead				26-Oct-15		Pi	er 28 Construct Crosshead
1021-1800	Pier 28 Install Bearing	5 20-0	Oct-15 26-Oct-15	26-Oct-15	30-Oct-15	4		Pier 28 Install Bearing

Remaining Work

Critical Remaining Work

Three Months Rolling Programme ( 20 Oct 2015 to 19 Jan 2016 )

<u> </u>				2016		
December 13	20	27	03	January 10	17	24
	20			10		
er 38 (F3C)						
	Pier 38 (F	3C) Insta	all Bearing			
r 39 (F4C) C	Construct (	Crosshe	ad			
	Dior 20 (E/	(C) Insta	II Bearing			
r	161 39 (1 4					
		-			-	
- 40 (FEO) (	onctro -1 (	Proce-				
r 40 (F5C) C						
F	Pier 40 (F5	C) Insta	II Bearing			
er 41 (F6C)	Construct	Crosshe	ad			
	Pier 41 (F	6C) Inst	all Bearing			
ad						
II Bearing						
ad						
all Bearing						
an bearing						
e Cap						
1C) Constru	ct Pier/Co	lumn				
			Pier 36 (	(F1C) Con	struct Ci	osshe
				Pie	r 36 (F1	C) Ins
Pier/Colum						
	Pier 3	7 (F2C)	Construct C	crosshead		
			Diar 27/		II Deeri	
			Pier 37 (	(F2C) Insta	ili Bearli	ng
Const	ruct Abutn	nent D12	2 W/B Bridg	e		
			nstallation D			
	B	earing ii	nstallation L	012 W/B B	ridge	
		0 11	•			
	Page	e 9 of 1	3			

ID	Activity Name	Duratio	r Early Start	Early Finish	Late Start	Late Finish	Total Float	October	2015 November 18 25 01 08 15 22 29
Pier 20 to 25									
1021-1060	Pier 22 Prepare C.J. for Column Construction	10	20-Oct-15	31-Oct-15	20-Feb-16	03-Mar-16	101		Pier 22 Prepare C.J. for Column Construction
1021-1080	Pier 22 Reconstruct Column	18	02-Nov-15	21-Nov-15	03-Mar-16	24-Mar-16	101		Pier 22 Reconstruct C
1021-1100	Pier 22 Reconstruct Crosshead	24	23-Nov-15	19-Dec-15	24-Mar-16	25-Apr-16	101		
1021-1120	Pier 22 Install Bearing	6	21-Dec-15	29-Dec-15	25-Apr-16	02-May-16	101		
1021-1280	Pier 24 Prepare C.J. for Column Construction	1	20-Oct-15	20-Oct-15	23-Jan-16	23-Jan-16	79		Pier 24 Prepare C.J. for Column Construction
1021-1300	Pier 24 Reconstruct Column	18	22-Oct-15	11-Nov-15	25-Jan-16	17-Feb-16	79		Pier 24 Reconstruct Column
1021-1320	Pier 24 Reconstruct Crosshead	24	12-Nov-15	09-Dec-15	18-Feb-16	16-Mar-16	79		
1021-1340	Pier 24 Install Bearing	9	10-Dec-15	19-Dec-15	17-Mar-16	29-Mar-16	79		
1021-1360	Pier 25 Prepare C.J. for Column Construction	0	20-Oct-15	20-Oct-15	25-Jan-16	25-Jan-16		Pier 25	Prepare C.J. for Column Construction
1021-1380	Pier 25 Reconstruct Column	18	20-Oct-15	10-Nov-15	25-Jan-16	17-Feb-16	80		Pier 25 Reconstruct Column
1021-1400	Pier 25 Reconstruct Crosshead	24	11-Nov-15	08-Dec-15	18-Feb-16	16-Mar-16	80		
1021-1420	Pier 25 Install Bearing	9	09-Dec-15	18-Dec-15	17-Mar-16	29-Mar-16	80		
1021-1520	Pier 23 Reconstruct Column	18	20-Oct-15	10-Nov-15	25-Jan-16	17-Feb-16	80		Pier 23 Reconstruct Column
1021-1540	Pier 23 Reconstruct Crosshead	24	11-Nov-15		18-Feb-16	16-Mar-16	80		
1021-1560	Pier 23 Install Bearing	9	09-Dec-15		17-Mar-16	29-Mar-16	80		
Pier 17 to 19									
1021-1215	Modify Pier 21 Crosshead (south wing) + Bearing	20	20-Oct-15	12-Nov-15	29-Mar-16	21-Apr-16	130		Modify Pier 21 Crosshead (south
1021-1225	Modify Pier 20 Crosshead (south wing) + Bearing	20	20-Oct-15		29-Mar-16	· ·	130		Modify Pier 20 Crosshead (south
1021-1230	Modify Pier 19 Crosshead (south wing) + Bearing	20	20-Oct-15		29-Mar-16	•	130		Modify Pier 19 Crosshead (south
1021-1235	Modify Pier 18 Crosshead (south wing) + Bearing		23-Oct-15		29-Mar-16	•	128		Modify Pier 18 Crosshead (so
0.2.2 - Bridge Co			20 000 10		20 11101 10	217491.10	.20		
Bridge C3									
1022-1070	Erect/Assemble LG2 at Piers 29 and 30 + T&C	40	26-Nov-15	13-Jan-16	02-Jan-16	20-Feb-16	30		
1022-1120	Bridge C3 - Erect Pier Segment at Pier 27 (1no) > by LG2	1	14-Jan-16	14-Jan-16	22-Feb-16	22-Feb-16	30		
1022-2580	Bridge C3 - Erect T-span at Pier 27 (10 nos) > By LG2	8	14-Jan-16	22-Jan-16	22-Feb-16	01-Mar-16	30		
1022-2582	Bridge C3 - Erect End Span at Pier 28 (5 nos) > By LG2	4	23-Jan-16	27-Jan-16	02-Mar-16	05-Mar-16	30		
1022-2620	Bridge C3 - Erect Pier Segment at Pier 26 (1no) > By LG2	1	28-Jan-16	28-Jan-16	07-Mar-16	07-Mar-16	30		
1022-2650	Bridge C3 - Stitching at midspan between Pier 27 and 28	2	28-Jan-16	29-Jan-16	07-Mar-16	08-Mar-16	30		
Bridge C4									
1022-1453	Bridge C5 - Erect Pier Segment at Pier 33 (1 no) > By Crane	0	20-Oct-15	20-Oct-15	20-Oct-15	20-Oct-15		Bridge	C5 - Erect Pier Segment at Pier 33 (1 no) > By Crane
1022-1453.2	Bridge C4 - Erect Pier Segment at Pier 32 (2 nos) > By Crane	2	20-Oct-15	22-Oct-15	20-Oct-15		0		Bridge C4 - Erect Pier Segment at Pier 32 (2 nos) > By Crane
1022-1453.3	Bridge C4 - Erect Pier Segment at Pier 31 (1 no) > By Crane	2	23-Oct-15	24-Oct-15	24-Oct-15	26-Oct-15	1		Bridge C4 - Erect Pier Segment at Pier 31 (1 no) > By Cran
1022-1453.4	Bridge C4 - Erect Pier Segment at Pier 30 (1 no) > By Crane	2	26-Oct-15	27-Oct-15	27-Oct-15	28-Oct-15	1		Bridge C4 - Erect Pier Segment at Pier 30 (1 no) > By (
1022-1453.5	Bridge C4 - Erect Pier Segment at Pier 29 (1 no) > By Crane	2	28-Oct-15	29-Oct-15	29-Oct-15	30-Oct-15	1		Bridge C4 - Erect Pier Segment at Pier 29 (1 no) > B
1022-1453.6	Bridge C4 - Erect Pier Segment at Pier 28 (2 nos) > By Crane	2	30-Oct-15		31-Oct-15	02-Nov-15	1		Bridge C4 - Erect Pier Segment at Pier 28 (2 nos)
1022-1454	Erect Temp. Support on Top of Pier Segment P33 & 32 to much-up level of Ex. Pier 34	7	23-Oct-15	30-Oct-15	23-Oct-15	30-Oct-15	0		Erect Temp. Support on Top of Pier Segment P33 &
1022-1455	Move LG1 to Temp. Support at Pier 33-32 from Pier 34-35	2	31-Oct-15		31-Oct-15	02-Nov-15	0		Move LG1 to Temp. Support at Pier 33-32 from
1022-1455.2	Luanch LG1 to Pier 28 - Pier 30	3	03-Nov-15		03-Nov-15		0		Luanch LG1 to Pier 28 - Pier 30
	Bridge C4 - Erect T-Span Segment at Pier 29 (12 nos) > by LG1	8	06-Nov-15		06-Nov-15		0		Bridge C4 - Erect T-Span Seg
	Bridge C4 - Erect End Span Segment at Pier 28 (4 nos) > By LG1	3	16-Nov-15		16-Nov-15		0		Bridge C4 - Erect End S
	Bridge C4 - Erect T-Span Segment at Pier 30 (10 nos) > by LG1	6	19-Nov-15		19-Nov-15		0		Bridge C4 - Ei
	Luanch LG1 to Pier 31 - Pier 33	1		26-Nov-15			0		Luanch LG1
1022-1456.5									

Remaining Work

Critical Remaining Work

Three Months Rolling	Programme	( 20 Oct 2015 to 19	Jan 2016)

December				2016		
December 13	20	27	03	January 10	17	24
n						
	Pier 22 F	Reconst	truct Crosshe	ad		
		P:	er 22 Install	Deeda		
			er 22 Install	Bearing		
Pier 24 Reco	nstruct Cr	osshea	d			
	Pier 24 li	nstall B	earing			
er 25 Recon	struct Cro	sshead				
	Pier 25 Ins	stall Re	arina			
er 23 Recon	struct Cro	sshead				
	Pier 23 Ins	stall Ro	arina			
		stall De	anng			
+ Bearing						
+ Bearing						
+ Bearing						
ng) + Bearing	g					
				Erec	ct/Asser	nble
				🛛 Bri	dge C3	- Ere
						Bric
e						
Crane						
nuch-up lev	el of Ex. Pi	ier 34				
1-35						
t Pier 29 (12	nos) > hv	LG1				
gment at Pi			y LG1			
pan Segme	nt at Pier 3	30 (10 r	nos) > by LG	1		
31 - Pier 33	3					

Page 10 of 13

Activ	ity ID	Activity Name		nir Early Start	Early Finish	Late Start	Late Finish	Total	Octobe	or			Nov		015			December			201 Janu	
			Durati	01				Float	Octobe	r 18	25	01	08	ember 15	22	29	06	December 13	20	27	03 10	
	1022-1457	Bridge C4 - Erect T-Span Segment at Piers 31 (12 nos) > by L	G1 8	27-Nov-15	05-Dec-15	27-Nov-15	05-Dec-15	0									Bridge	e C4 - Erect T	Span Segm	ient at Piers	s 31 (12 nos)	> by LG1
	1022-1458	Bridge C4 - Erect End Span Segment at Piers 32 (4 nos) > by	LG1 3	07-Dec-15	09-Dec-15	07-Dec-15	09-Dec-15	0										Bridge C4 - E	rect End Sp	an Segmen	nt at Piers 32	(4 nos) > by LG1
	1022-1458.2	Bridge C4 - Stitching between Pier 28 - 29	2	19-Nov-15	20-Nov-15	27-Feb-16	29-Feb-16	81							0		0	en Pier 28 - 2				
	1022-1458.3	Bridge C4 - Stitching between Pier 29 - 30	2	26-Nov-15	27-Nov-15	27-Feb-16	29-Feb-16	75								Bridge C	24 - Stitch	ing between	Pier 29 - 30			
	1022-1458.4	Bridge C4 - Stitching between Pier 30 - 31	2	07-Dec-15	08-Dec-15	27-Feb-16	29-Feb-16	66									🗖 B	ridge C4 - Sti	ching betwe	een Pier 30	- 31	
	1022-1459	Bridge C4 - Stitching between Pier 31 - 32	2	10-Dec-15	11-Dec-15	10-Dec-15	11-Dec-15	0										Bridge C4	- Stitching b	etween Pie	er 31 - 32	
	1022-1460	Bridge C4 - External Stressing	10	12-Dec-15	23-Dec-15	01-Mar-16	11-Mar-16	63											Eridg	je C4 - Exte	rnal Stressin	g
	1022-1620	Bridge C4 - Construct South Parapet (108m)	23	24-Dec-15	21-Jan-16	12-Mar-16	11-Apr-16	63														Brid
	1022-1640	Bridge C4 - Construct North Parapet (108m)	23	24-Dec-15	21-Jan-16	12-Mar-16	11-Apr-16	63														Brid
	1022-3830	Complete Part of Portion VB (from Pier 28 - Pier 32)	0		11-Dec-15		11-Dec-15	0										♦ Complete	Part of Porti	on VB (from	Pier 28 - Pie	
	1022-3840	Handover to Portion VB to CC contract (from Pier 28 - Pier 34)			11-Jan-16		11-Jan-16	0										· · · · · · · · · · · · · · · · · · ·				andover to Portic
	Bridge C5		Ŭ		IT ball To			Ŭ		<b>_</b>											• •	
		Bridge C5 - Erect T-span at Pier 33 (10 nos) > by LG1		10 Dec 15	10 Dec 15	10 Dec 15	10 Dec 15	0											Pridao CE	Erect Top	on of Dior 22	(10 nos) > by L0
	1022-1570			10-Dec-15																		an Segment at F
	1022-1575	Bridge C4 - Erect End Span Segment at Piers 32 (5 nos) > by	LG1 5	21-Dec-15				0														5
	1022-1578	Luanch LG1 to Pier 34 - Pier 36	1				28-Dec-15	0											<b>I</b>	Luanch L	G1 to Pier 34	
	1022-1580	Bridge C5 - Erect T-span at Pier 34 (8 nos) > By LG1	8	29-Dec-15	07-Jan-16	29-Dec-15	07-Jan-16	0													0	C5 - Erect T-spar
	1022-1585	Bridge C5 - Erect Pier Segment at Abut D12 (2 nos) > by LG1	2	08-Jan-16	09-Jan-16	25-Jan-16	26-Jan-16	14													-	ge C5 - Erect Pie
	1022-1588	Bridge C5 - Erect E-span at Abut D12 (5 nos) > by LG1	5	11-Jan-16	15-Jan-16	27-Jan-16	01-Feb-16	14														Bridge C5 - E
	1022-1600	Bridge C5 - Stitching between Pier 32 and 33	3	28-Dec-15	30-Dec-15	17-Jun-16	20-Jun-16	140											ſ	Bridge		ng between Pier
	1022-1700	Bridge C5 - Stitching between Pier 33 and 34	3	08-Jan-16	11-Jan-16	08-Jan-16	11-Jan-16	0													Br	idge C5 - Stitchi
	1022-1760	Bridge C5 - Stitching between Pier 34 and D12	3	16-Jan-16	19-Jan-16	21-Jun-16	23-Jun-16	127														Bridge
	1022-1780	Bridge C5 - External Stressing	7	16-Jan-16	23-Jan-16	21-Jun-16	28-Jun-16	127														Bridge
ľ	Bridge F1C									-												
	1022-1840	Bridge F1C - Erect Pier Segment at Pier 36 (1 nos) > by LG1	1	16-Jan-16	16-Jan-16	02-Feb-16	02-Feb-16	14														Bridge F1C
	1022-1860	Bridge F1C- Erect T-span at Pier 36 (12 nos) > by LG1	11	18-Jan-16	29-Jan-16	03-Feb-16	18-Feb-16	14														
	10.3 - Middle Brid	dge (Bridge F)																				
	10.3.1 - Pier Cons	struction								+												
Ir	Abutment D12																					
	1031-1920	Complete ABUT D12 at Middle Bridge	45	21-Nov-15	14-Jan-16	30-Nov-15	22-Jan-16	7														Complete ABL
	10.5 - Temporary	/ Bridge																				
	10.5.1 - Tempora	ry Bridge 'TA'																				
Г	1051-3270	Demolition TA2 (Prepation and Mobilization) - TA28-27	7	27-Nov-15	04-Dec-15	28-Nov-15	05-Dec-15	1									Demoli	tion TA2 (Pre	pation and N	Nobilization	) - TA28-27	,
	1051-3280	Demolition TA2 (Removal of Bridge Deck) - TA28-27	6					43										Demolition			•	28-27
-	1051-3290	Demolition TA2 (Removal of Pier 28)	5					43											emolition TA	-		
	1051-3300	Demolition TA2 (Prepation and Mobilization) - TA27-26	7	04-Dec-15			12-Dec-15	1													obilization) -	TA27-26
	1051-3310	Demolition TA2 (Removal of Bridge Deck) - TA27-26	, 	11-Dec-15			12 Dec 15	1											• •		,	eck) - TA27-26
	1051-3320	Demolition TA2 (Removal of Pier 27)	5				24-Dec-15	1														
		Demolition TA2 (Prepation and Mobilization) - TA24-23						1										tion TA2 (Pre				
	1051-3380	, , , , , , , , , , , , , , , , , , , ,	1				08-Dec-15	3													, 	4.00
	1051-3390	Demolition TA2 (Removal of Bridge Deck) - TA24-23	6	04-Dec-15			14-Dec-15	3													e Deck) - TA2	
	1051-3400	Demolition TA2 (Prepation and Mobilization) - TA23-21	1				12-Dec-15	3										Demolition TA			,	-
	1051-3410	Demolition TA2 (Removal of Bridge Deck) - TA23-21	6				21-Dec-15	3										D(	molition IA			eck) - TA23-21
	1051-3420	Demolition TA2 (Removal of Pier 22 & 21)	8	18-Dec-15	28-Dec-15	22-Dec-15	31-Dec-15	3													``	oval of Pier 22 &
	1051-3470	Demolition TA2 (Removal of Pier 23)	3	28-Dec-15	30-Dec-15	18-Jan-16	20-Jan-16	17												Demol	lition TA2 (Re	emoval of Pier 23
	Remaini	ng Level of Effort 🔶 🔶 Milestone																				
		evel of Effort				ontroo	t HY/20	00/4	0													
	Actual W	/ork	<b></b>	<b>.</b> -		onuac	ι Π1/20	U3/ I	3	• 4 = ·			o / c `						Page 11	1 of 13		

Three Months Rolling Programme (20 Oct 2015 to 19 Jan 2016)

Remaining Work

Critical Remaining Work

1051-3480		Juratio	I	Early Finish	Late Start	Late Finish	Total Float	October	2015 November
	Demolition TA2 (Prepation and Mobilization) - TA24-25	6	07-Dec-15	12-Dec-15	16-Dec-15	22-Dec-15	8		18         25         01         08         15         22         29         06
051-3490	Demolition TA2 (Removal of Bridge Deck) - TA24-25	8	14-Dec-15	22-Dec-15	05-Jan-16	13-Jan-16	17		
1051-3500	Demolition TA2 (Removal of Pier 24)	3	23-Dec-15	26-Dec-15	14-Jan-16	16-Jan-16	17		
1051-3501	Demolition TA2 (Prepation and Mobilization) - TA25-26	6	14-Dec-15	19-Dec-15	23-Dec-15	30-Dec-15	8		
051-3502	Demolition TA2 (Removal of Bridge Deck) - TA25-26	8	21-Dec-15	30-Dec-15	31-Dec-15	09-Jan-16	8		
1051-3503	Demolition TA2 (Removal of Pier 25&26)	3	31-Dec-15	04-Jan-16	11-Jan-16	13-Jan-16	8		
6 - Tunnel Apr	proach Ramp								
0.6.1 - Approacl	h Ramp (Excluding Portion IIB)								
Bored Piles									
1061-1120	Bored Piles Testing Approach Ramp (112 nos)	80	20-Oct-15	23-Jan-16	07-May-16	10-Aug-16	163		
1061-3980	Pre Bored H-Pile > Pile Ramp - BN14 A	10	20-Oct-15	31-Oct-15	16-Mar-16	29-Mar-16	121		Pre Bored H-Pile > Pile Ramp - BN14 A
1061-4000	Pre Bored H-Pile > Pile Ramp - BN14 B	14	26-Oct-15	10-Nov-15	21-Mar-16	08-Apr-16	121		Pre Bored H-Pile > Pile Ramp - BN14 B
1061-4020	Pre Bored H-Pile > Pile Ramp - BN15 A	14	11-Nov-15	26-Nov-15	09-Apr-16	25-Apr-16	121		Pre Bored H-Pile > Pil
1061-4040	Pre Bored H-Pile > Pile Ramp - BN15 B	14	16-Nov-15	01-Dec-15	14-Apr-16	29-Apr-16	121		Pre Bored H-Pi
1061-4060	Pre Bored H-Pile > Pile Ramp - BN16 A	14	20-Nov-15	05-Dec-15	19-Apr-16	04-May-16	121		Pre Borec
1061-4080	Pre Bored H-Pile > Pile Ramp - BN16 B	14	25-Nov-15	10-Dec-15	23-Apr-16	09-May-16	121		Pr
1061-4100	Pre Bored H-Pile > Pile Ramp - BM07 A	14	30-Nov-15	15-Dec-15	28-Apr-16	13-May-16	121		
1061-4120	Pre Bored H-Pile > Pile Ramp - BM07 B	14	04-Dec-15	19-Dec-15	03-May-16	18-May-16	121		
1061-4140	Pre Bored H-Pile > Pile Ramp - BM08 A	14	09-Dec-15	24-Dec-15	07-May-16	23-May-16	121		
1061-4160	Pre Bored H-Pile > Pile Ramp - BM08 B	14	14-Dec-15		12-May-16		121		
1061-4180	Pre Bored H-Pile > Pile Ramp - BM06 A	14	18-Dec-15		17-May-16		121		
1061-4200	Pre Bored H-Pile > Pile Ramp - BM06 B	14	23-Dec-15		21-May-16		121		
1061-4220	Pre Bored H-Pile > Pile Ramp - BM05 A	14	29-Dec-15		26-May-16		121		
061-4240	Pre Bored H-Pile > Pile Ramp - BM05 B	14	04-Jan-16		31-May-16		121		
061-4260	Pre Bored H-Pile > Pile Ramp - BM04 A	14	08-Jan-16		04-Jun-16		121		
061-4280	Pre Bored H-Pile > Pile Ramp - BM04 B	14	13-Jan-16		10-Jun-16		121		
.S				20 0411 10		20 000 10			
1061-1200	Drive Sheet Pile for Trough A (excl IIB) - Appr. Ramp > Pier D10-D09 Northern Side	14	16-Nov-15	01-Dec-15	08-Apr-16	23-Apr-16	116		Drive Sheet Pil
	Drive Sheet Pile for Trough A (excl IIB) - Appr. Ramp > Pier D09-D08 Northern Side		02-Dec-15		·	·			
1061-1240	Drive Sheet Pile for Trough A (excl IIB) - Appr. Ramp > Pier D08-D07 Northern Side	14	18-Dec-15	05-Jan-16		18-Jul-16	159		
1061-1240	Drive Sheet Pile for Trough A (excl IIB) - Appr. Ramp > Pier D07 Cross Sectional Side	14	06-Jan-16	21-Jan-16		03-Aug-16	159		
1061-1320	Drive Sheet Pile for Trough A (excl IIB) - Appr. Ramp > Pier D10-D09 Cross Sectional Side	14	16-Nov-15		28-May-16		159		Drive Sheet Pil
1061-1320	Drive Sheet Pile for Trough A (excl IIB) - Appr. Ramp > Pier D10-D09 Southern Side	14	02-Dec-15		15-Jun-16		159		
1061-1340	Drive Sheet Pile for Trough A (excl IIB) - Appr. Ramp > Pier D09-D08 Southern Side	14		05-Jan-16			159		
1061-1380	Drive Sheet Pile for Trough A (excl IIB) - Appr. Ramp > Pier D09-D08 Southern Side	14	18-Dec-15 06-Jan-16	21-Jan-16		18-Jul-16 03-Aug-16	159		
1061-1390			16-Nov-15		08-Apr-16	<u> </u>	116		Install H-Pile K
	Install H-Pile King Post	14			•	· ·			
1061-1400	Install & Operate Dewatering System (excl IIB) - Appr. Ramp > Pier D07-D08		02-Dec-15	09-Dec-15	· ·	02-May-16	116		
1061-1420	Install & Operate Dewatering System (excl IIB) - Appr. Ramp > Pier D08-D09	7	10-Dec-15		03-May-16	-	116		
1061-1440	Install & Operate Dewatering System (excl IIB) - Appr. Ramp > Pier D09-D10	7	18-Dec-15		11-May-16		116		
1061-1460	Excavate Trough A (Level 1) > BN/BS18 - BN/BS25	17	15-Dec-15		07-May-16	-	116		
1061-1470	Install Strut & Waling Supporty (First layer) > BN/BS18 - BN/BS25	18	06-Jan-16		27-May-16		116		
1061-1530	Excavate Trough A (Level 1) > BN/BS25 - BN/BS30	17	06-Jan-16	25-Jan-16	25-Jun-16	15-Jul-16	140		
7 - Section X	- Miscellaneous Works								
	ing Level of Effort A Milostono								
Remaini	ing Level of Effort   Milestone								
Remaini	evel of Effort			C	ontract	: HY/20	09/1	9	

Critical Remaining Work

			2016
December	00	07	January
13 Demoliti	20 20 TA2 (Pr	27 epatior	03 10 17 24 and Mobilization) - TA24-25
	``	•	,
	Dem	olition	TA2 (Removal of Bridge Deck) - TA2
		Demo	lition TA2 (Removal of Pier 24)
	Demoliti	on TA2	(Prepation and Mobilization) - TA25-
			Demolition TA2 (Removal of Bridge [
		<u>-</u>	
			Demolition TA2 (Removal of F
			B0
Pile Ramp -	BN15A		
-Pile > Pile I	Ramn - RM	115 B	
red H-Pile >	Pile Ram	ip - BN1	6 A
Pre Bored H	I-Pile > Pi	le Ram	p - BN16 B
Pre	Bored H-F	rile > Pi	le Ramp - BM07 A
	Pre Bore	d H-Pil	e > Pile Ramp - BM07 B
	P		d H-Pile > Pile Ramp - BM08 A
			Pre Bored H-Pile > Pile Ramp - BM0
			Pre Bored H-Pile > Pile Ram
			Pre Bored H-Pile > Pile
			Des Dess d U. D'
			Pre Bored H-Pi
			Pre Bore
			Pro
			FI
	-	-	
Pile for Trou	gh A (exc	i IIB) - <i>I</i>	Appr. Ramp > Pier D10-D09 Northerr
D	rive Shee	t Pile fo	r Trough A (excl IIB) - Appr. Ramp >
			Drive Sheet Pile for Trough /
			Drive
Dilo for Tra	ab A (av-		Appr. Ramp. Disr. D10, D00, Cross 0
File for Irou	yn A (exc	i IIB) - 7	Appr. Ramp > Pier D10-D09 Cross S
<b>D</b>	rive Shee	t Pile fo	r Trough A (excl IIB) - Appr. Ramp >
			Drive Sheet Pile for Trough <i>i</i>
			Drive
King Post			
•			
nstall & Ope	rate Dewa	tering S	System (excl IIB) - Appr. Ramp > Pier
In	stall & On	erate D	ewatering System (excl IIB) - Appr. F
		Install	& Operate Dewatering System (excl
			Excavate Trough A (Level 1)
	Page	12 of	13

ivity ID	Activity Name		Early Start	Early Finish	Late Start	Late Finish	Total						015		
		Juratio					Float	October	18 25	01	Nov 08	vember 15	22	29	06
10.7.1 - TTM St	tages								18 25	01	08	15	22	29	00
1071-1240	TTM Stage 5 - TMLG Consultation and Endorsement	37	20-Oct-15	25 Nov 15	21-Oct-15	26-Nov-15	1							1 Stage 5 - T	
		31													
1071-1260	TTM Stage 5 - TTM Enabling Works	1	26-Nov-15	26-Nov-15	27-Nov-15	27-Nov-15	1							M Stage 5 -	· TTM E
1071-1280	TTM Stage 5 - Hing Fat Slip Road Divert 1 Lane through 'Bridge From Pier E4 to Pier E2' to Release "TA2"	0		26-Nov-15		27-Nov-15	1						♦ TT	M Stage 5 -	· Hing F
11 - SECTIO	N 11 OF THE WORKS														
11.2 - Roadwo	rks														
1110-2710	Watermains at Portion XIIA - Stage 3 (parking Meters)	0	20-Oct-15	20-Oct-15	16-Nov-15	16-Nov-15		- Stage 3	(parking Meter	,					
1110-2720	Watermains at Portion XIIA - Stage 4 (parking Meters)	0	20-Oct-15	20-Oct-15	16-Nov-15	16-Nov-15		nains at F	ortion XIIA - Sta	age 4 (park	ing Meters)	)			
1110-2730	Watermains at Portion XIIA - Stage 5 (parking Meters)	3	20-Oct-15	23-Oct-15	16-Nov-15	18-Nov-15	22		Waterm	ains at Por	tion XIIA - S	Stage 5 (p	arking Mete	rs)	
1110-2740	Watermains at Portion XIIA - Stage 6 (King Ming Rd. junction)	0	20-Oct-15	20-Oct-15	17-Nov-15	17-Nov-15		ortion XII/	- Stage 6 (Kin	g Ming Rd.	junction)				
1110-2750	Watermains at Portion XIIA - Stage 7 (King Ming Rd. junction & connection pt.)	0	20-Oct-15	20-Oct-15	17-Nov-15	17-Nov-15		<b>Wate</b>	rmains at Porti	on XIIA - Sta	age 7 (King	g Ming Rd	junction &	connection p	pt.)
1110-2760	Watermains at Portion XIIA - Stage 8 (Run-in/out to carpark at Victoria Ctr.)	2	22-Oct-15	23-Oct-15	17-Nov-15	18-Nov-15	22		🔲 Waterm	ains at Por	tion XIIA - S	Stage 8 (R	un-in/out to	carpark at V	Victoria
1110-2770	Watermains at Portion XIIA - Stage 9 (Run-in/out to carpark at Victoria Ctr.)	13	24-Oct-15	07-Nov-15	19-Nov-15	03-Dec-15	22				Waterm	ains at Po	rtion XIIA - S	Stage 9 (Rur	n-in/ou
1110-2780	Watermains at Portion XIIA - Stage 10 (motor cycle parking)	13	24-Oct-15	07-Nov-15	19-Nov-15	03-Dec-15	22				Waterm	ains at Po	rtion XIIA - S	Stage 10 (mo	otor cy
1110-2790	Watermains at Portion XIIA - Stage 11 (motor cycle parking)	12	09-Nov-15	21-Nov-15	04-Dec-15	17-Dec-15	22						Waterma	ins at Portior	n XIIA
1110-2800	Watermains at Portion XIIA - Testing & commissioning of Watermains	4	23-Nov-15	26-Nov-15	18-Dec-15	22-Dec-15	22						<b>—</b> W	atermains at	t Portic
1110-2810	Watermains at Portion XIIA - Reinstatement of Pavement at connection Pt.	4	27-Nov-15	01-Dec-15	23-Dec-15	28-Dec-15	22							Waterm	nains a

Remaining Level of Effort   Milestone		
Actual Level of Effort	Contract HY/2009/19	
Actual Work		
Remaining Work	Three Months Rolling Programme ( 20 Oct 2015 to 19 Jan 2016 )	
Critical Remaining Work		

						2016		
	December					January	-	
	13	20	27		03	10	17	24
С	onsultatio	n and Enc	dorseme	ent				
Ē	nabling W	orks						
F	at Slip Roa	ad Divert	1 Lane	thro	ough 'Brid	ge From F	Pier E4 to	Pier
ia	Ctr.)							
ut	to carpark	at Victori	a Ctr.)					
yc	le parking	)						
۹-	Stage 11 (	motor cyc	le park	ing	)			
io	n XIIA - Tes	sting & co	mmissio	onir	ng of Wate	ermains		
a	Portion X	IIA - Reins	stateme	nto	of Paveme	ent at conr	nection Pt	

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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
TS2 - OHVD	and Cable Trough	/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	lauk faller 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	le Handover te	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 WRITE	210	20-rug-14 00 h	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 stayli	-	-	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 11,000	11.11011.11.10	ood	- realise	arement of existing	g souwall (2011es 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 BAT	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	11 24		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			1	
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- 1.0- 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-				
Removal of	Temporary Reclam	ation & Form TZ5						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 CORST	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							<ul> <li>Start reinstaten</li> </ul>	
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	- Cu					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	<b>古雨津</b> 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
<ul> <li>Mileston</li> </ul>	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 se	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	-	1211			
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		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 Excava	tion	
S6_9010	3rd Layer - install	lateral support	7d/wk-1	10d	10-Jun-15 08	19-Jun-15 18	-141d	1				Srd Lay	er - install latera	I 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	ayer - 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			122722	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		
<ul> <li>Mileston</li> </ul>	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							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	
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 o Ma				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					<ul> <li>Comp</li> </ul>	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					a transfer				
	@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	<b>S</b>	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				-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
<ul> <li>Milesto</li> </ul>		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 s				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	OLONG KONG) []
			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	Sench 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

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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	- COM BY	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			<b>E</b>	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>B</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	ay	
									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	Bar 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	eway 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		-							
<ul> <li>Milestone</li> </ul>		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			<b>•</b> 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	85 - 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					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			
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	Sector Sector	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	Sector Sector	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	- diama									
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( <b></b> · 来); RUCTION ENGINEERING	
<ul> <li>Critical Ri</li> <li>Milestone</li> </ul>	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 ru	200	00-Apr-10 00	21-001-10-10	ou			VVD,inner	neading 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	Dm		
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	and the second se				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		_											
		30) 						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	1.000	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 strong		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		<b>E</b> 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	1.1		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 sec	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	and an		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				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			102	中國連 梦.	工程(重法)	オロハラ
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	1.000
KD_5720	KD5 - Achievement of Stage 5, (1152d)	7d/wk-2	b0	16-Oct-14 18*	-323d	<ul> <li>KD5 - Achiev</li> </ul>	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					
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							<ul> <li>Portion H</li> </ul>	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(哥港	

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)	-			NUMBER	CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) L	
Critical Remaining Work		-					
Milestone	WORKS PROGRAMME REV. M					1	

ogramme Milestones (Revise.         contractual Completion Dates         Soft Landscaping & Establishme         KDC0140       Section         KDC0150       Section         iorecast Completion Dates       KDC0110         KDC0110       Section         iorecast Completion Dates       KDC0110         KDF0110       Section         iorecast Completion Dates       Posses         reliminaries       Interface with Others         PRE0950       Permar         PRE-SUB-1000B       Temp O         PRE-SUB-1000B       Tunnel         PRE-SUB-1000B       Tunnel         PRE-SUB-1000B       Tunnel         PRE-SUB-1000B       Tunnel         PRE-SUB-1000B       Tunnel         PRE-SUB-3000B       Tunnel         PRE-CSD-3000B       Tunnel         PRE-CSD-5010B       Tunnel         PRE-CSD-5010B       Tunnel         PRE-CSD-6010B       Tunnel         PRE-CSD-1000B       Reinsta         ection 3 of the Works - Reprovioutstanding Works       S30070-1499         Reinsta       S40f the Works - Box Cu         ransformer Building for Dining S       ABWF Works         S7-TB-3100       Landsoc	an 8C Works (1473 days) - Landscape Softworks in Area 8 (10-Feb-14) an 8D Works (1838 days) - Establishment Works in Area 8 (10-Feb-15) an 7 Works (831 days) - Box Culvert N1 & Works at Area 7 ession of Portion 9 - Western Bulkhead (By HK/2009/01) anent Diversion of Box Culvert M by HK/2009/01 Covered Walkway Capping Beam - Design Approval by AECOM Covered Walkway Cover System (PS30.5) - Design Approval by AECOM Covered Walkway Cover System (PS30.5) - Design Approval by AECOM el Portion 2 - Redes igned CWB Tunnel Structure Design Submission Approval by AECO el Portion 3&4 - Redesigned Temp D-Wall Submission Approval by AECOM & GEO el Portion 3&4 - Redesigned Temp D-Wall Submission Approval by AECOM & GEO el Portion 5 - Temp D-Wall Submission Approval by AECOM & GEO el Portion 5 - Temp D-Wall Submission Approval by AECOM & GEO el Portion 6 - ELS Submission Approval by AECOM & GEO el Portion 6 - ELS Submission Approval by AECOM & GEO revy Roof Panel for Temp Covered Walkway (Type 2) visioning of Government Helipad and Public Toilet tatement of armour rock, retaining walls & new covered walkway along Expo Drive East ulvert N1 & Flood Relief System	16           0           0           0           0           0           0           0           0           0           0           0           0           0           835           0           30           835           60           30           60	20-Apr-15 20-Apr-15 04-May-15 07-May-15 07-May-15* 08-Jun-13A 20-Apr-15 08-Jun-13A 19-Jun-13A 12-Jun-13A	07-May-15 20-Apr-15 20-Apr-15 20-Apr-15 20-Apr-15* 04-May-15 04-May-15 07-May-15 07-May-15 20-Apr-15 20-Apr-15 27-Apr-15 27-Apr-15 27-Apr-15 27-Apr-15 30-Apr-15	Calendar Day Calendar Day	Possession of Portion 9     Permanent Diversion of Box Culvert M by HK/2     Temp Covered Walkway Capping Bea     Temp Covered Walkway Cover Syste     Tunnel	t Works in Area 8 (10-Feb-15) - Box Culvert N1 & Works at Area 7 - Western Bulkhead (By HK/2009/01) 2009/01 am - Design Approval by AECOM m (PS30.5) - Design Approval by AECOM	Jul 67
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KDF0110       Section         Robinstructure       PS0090       Posses         reliminaries       PRE0950       Permar         Interface with Others       PRE0950       Permar         PRE0950       Permar       PRE0950       Permar         Interface with Others       PRE0950       Permar         PRE-SUB-1000B       Temp O       CSD for CWB Tunnel         PRE-SUB-1010B       Tunnel       PRE-SD-20300B       Tunnel         PRE-CSD-3000B       Tunnel       PRE-CSD-3010B       Tunnel         PRE-CSD-3010B       Tunnel       PRE-CSD-3010B       Tunnel         PRE-CSD-3010B       Tunnel       PRE-CSD-5010B       Tunnel         PRE-CSD-6010B       Tunnel       PRE-CSD-6010B       Tunnel         PRE-CSD-1100B       GRP R       Gotto 3 of the Works - Reprovioutstanding Works       S3-0070-1499       Reinsta         Socion 3 of the Works - Box C u       ransformer Building for Dining S       ABWF Works       S7-TB-3100       Landsco         S7-TB-3100       Landsco       S7-TB-4100       22kV C       S7-TB-4100       Engeriz         Overall Testing & Commissionin       S7-TB-9100       FSD In       S7-TB-9100       FSD In         S7-TB-9100       FSD In <td< td=""><td>anent Diversion of Box Culvert M by HK/2009/01) Covered Walkway Capping Beam - Design Approval by AECOM Covered Walkway Cover System (PS30.5) - Design Approval by AECOM al Portion 2 - Redes igned CWB Tunnel Structure Design Submission Approval by AECO el Portion 3&amp;4 - Redesigned Temp D-Wall Submission Approval by AECOM &amp; GEO el Portion 3&amp;4 - Redesigned Temp D-Wall Submission Approval by AECOM &amp; GEO el Portion 5 - Temp D-Wall Submission Approval by AECOM &amp; GEO el Portion 5 - Temp D-Wall Submission Approval by AECOM &amp; GEO el Portion 6 - ELS Submission Approval by AECOM &amp; GEO el Portion 6 - ELS Submission Approval by AECOM &amp; GEO el Portion 7 - Temp D-Wall Submission Approval by AECOM &amp; GEO el Portion 6 - ELS Submission Approval by AECOM &amp; GEO very Roof Panel for Temp Covered Walkway (Type 2) visioning of Government Helipad and Public Toilet tatement of armour rock, retaining walls &amp; new covered walkway along Expo Drive East ulvert N1 &amp; Flood Relief System</td><td>0 0 835 0 0 835 30 30 835 60 60 60 60 60 60 60 60 60</td><td>07-May-15 07-May-15* 08-Jun-13A 20-Apr-15 08-Jun-13A 19-Jun-13A 12-Jun-13A 12-Jun-13A 16-Nov-13A 08-Jun-13A 17-Jan-14A 15-Aug-13A</td><td>04-May-15 07-May-15 19-Jun-15 20-Apr-15 20-Apr-15 27-Apr-15 27-Apr-15 27-Apr-15 19-Jun-15 20-May-15 30-Apr-15</td><td>Calendar Day Calendar Day</td><td>Possession of Portion 9     Permanent Diversion of Box Culvert M by HK/2     Temp Covered Walkway Capping Bea     Temp Covered Walkway Cover Syste     Tunnel</td><td>- Western Bulkhead (By HK/2009/01) 2009/01 am - Design Approval by AECOM m (PS30.5) - Design Approval by AECOM</td><td></td></td<>	anent Diversion of Box Culvert M by HK/2009/01) Covered Walkway Capping Beam - Design Approval by AECOM Covered Walkway Cover System (PS30.5) - Design Approval by AECOM al Portion 2 - Redes igned CWB Tunnel Structure Design Submission Approval by AECO el Portion 3&4 - Redesigned Temp D-Wall Submission Approval by AECOM & GEO el Portion 3&4 - Redesigned Temp D-Wall Submission Approval by AECOM & GEO el Portion 5 - Temp D-Wall Submission Approval by AECOM & GEO el Portion 5 - Temp D-Wall Submission Approval by AECOM & GEO el Portion 6 - ELS Submission Approval by AECOM & GEO el Portion 6 - ELS Submission Approval by AECOM & GEO el Portion 7 - Temp D-Wall Submission Approval by AECOM & GEO el Portion 6 - ELS Submission Approval by AECOM & GEO very Roof Panel for Temp Covered Walkway (Type 2) visioning of Government Helipad and Public Toilet tatement of armour rock, retaining walls & new covered walkway along Expo Drive East ulvert N1 & Flood Relief System	0 0 835 0 0 835 30 30 835 60 60 60 60 60 60 60 60 60	07-May-15 07-May-15* 08-Jun-13A 20-Apr-15 08-Jun-13A 19-Jun-13A 12-Jun-13A 12-Jun-13A 16-Nov-13A 08-Jun-13A 17-Jan-14A 15-Aug-13A	04-May-15 07-May-15 19-Jun-15 20-Apr-15 20-Apr-15 27-Apr-15 27-Apr-15 27-Apr-15 19-Jun-15 20-May-15 30-Apr-15	Calendar Day Calendar Day	Possession of Portion 9     Permanent Diversion of Box Culvert M by HK/2     Temp Covered Walkway Capping Bea     Temp Covered Walkway Cover Syste     Tunnel	- Western Bulkhead (By HK/2009/01) 2009/01 am - Design Approval by AECOM m (PS30.5) - Design Approval by AECOM	
PS0090       Posses         reliminaries       Perman         Interface with Others       Perman         PRE0950       Perman         Interface with Others       Perman         PRE0950       Perman         Citical Submission & Approval       PRE-SUB-1000B         PRE-SUB-1010B       Temp O         CSD for CWB Tunnel       PRE-CSD-3000B       Tunnel         PRE-CSD-3000B       Tunnel         PRE-CSD-3010B       Tunnel         PRE-CSD-3010B       Tunnel         PRE-CSD-3010B       Tunnel         PRE-CSD-3010B       Tunnel         PRE-CSD-3010B       Tunnel         PRE-CSD-3010B       Tunnel         PRE-CSD-6010B       Tunnel         PRE-CSD-6010B       Tunnel         PRE-CSD-1100B       GRP R         section 3 of the Works - Reprovioutstanding Works       Stor Gutstanding tor Duning S         ABWF Works       S7-TB-3100       Landsco         S7-TB-3100       Landsco       S7-TB-4400       Engeriz         Overall Testing & Commissionin       S7-TB-9100       FSD In         S7-TB-9100       FSD In       S7-TB-9100       FSD In         S7-TB-9100       FSD In       S7-TB-9100	anent Diversion of Box Culvert M by HK/2009/01 Covered Walkway Capping Beam - Design Approval by AECOM Covered Walkway Cover System (PS30.5) - Design Approval by AECOM al Portion 2 - Redesigned CWB Tunnel Structure Design Submission Approval by AECO el Portion 3&4 - Redesigned Temp D-Wall Submission Approval by AECOM & GEO el Portion 3&4 - ELS Submission Approval by AECOM & GEO el Portion 5 - Temp D-Wall Submission Approval by AECOM & GEO el Portion 5 - Temp D-Wall Submission Approval by AECOM & GEO el Portion 6 - ELS Submission Approval by AECOM & GEO ery Roof Panel for Temp Covered Walkway (Type 2) visioning of Government Helipad and Public Toilet tatement of armour rock, retaining walls & new covered walkway along Expo Drive East ulvert N1 & Flood Relief System	0           835           0           835           30           30           835           60           30           60           60           60           60           60           60           60           60           60           60           60           60           60           60           60           60           60           60           60	07-May-15* 08-Jun-13 A 20-Apr-15 08-Jun-13 A 19-Jun-13 A 12-Jun-14 A 08-Jun-13 A 16-Nov-13 A 08-Jun-13 A 17-Jan-14 A 15-Aug-13 A	19-Jun-15           20-Apr-15           20-Apr-15*           19-Jun-15           27-Apr-15           27-Apr-15           19-Jun-15           20-Apr-15           30-Apr-15	Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day	Possession of Portion 9     Permanent Diversion of Box Culvert M by HK/2     Temp Covered Walkway Capping Bea     Temp Covered Walkway Cover Syste     Tunnel	- Western Bulkhead (By HK/2009/01) 2009/01 am - Design Approval by AECOM m (PS30.5) - Design Approval by AECOM	
reliminaries         Interface with Others         PRE0950       Permar         ritical Submission & Approval         PRE-SUB-1000B       Temp O         CSD for CWB Tunnel       Tunnel         PRE-SD-3000B       Tunnel         PRE-CSD-3000B       Tunnel         PRE-CSD-3000B       Tunnel         PRE-CSD-3000B       Tunnel         PRE-CSD-3000B       Tunnel         PRE-CSD-3010B       Tunnel         PRE-CSD-3010B       Tunnel         PRE-CSD-3010B       Tunnel         PRE-CSD-5010B       Tunnel         PRE-CSD-6010B       Tunnel         ritical Procurement & Site Delive         PRE-PRO-1100B       GRP R         ection 3 of the Works - Reprovize         S3-0070-1499       Reinstate         ection 7 of the Works - Box Cu       standscore         SABWF Works       S7-TB-3100       Landsco         S7-TB-3100       Landsco       S7-TB-4400         S7-TB-4100       22kV C       S7-TB-9100         S7-TB-9100       FSD In       S7-TB-9100         S7-TB-9100       FSD In       S7-TB-9100         S7-TB-9100       FSD In       S7-TB-9100         S7-TB-9100<	anent Diversion of Box Culvert M by HK/2009/01 Covered Walkway Capping Beam - Design Approval by AECOM Covered Walkway Cover System (PS30.5) - Design Approval by AECOM al Portion 2 - Redesigned CWB Tunnel Structure Design Submission Approval by AECO el Portion 3&4 - Redesigned Temp D-Wall Submission Approval by AECOM & GEO el Portion 3&4 - ELS Submission Approval by AECOM & GEO el Portion 5 - Temp D-Wall Submission Approval by AECOM & GEO el Portion 5 - Temp D-Wall Submission Approval by AECOM & GEO el Portion 6 - ELS Submission Approval by AECOM & GEO ery Roof Panel for Temp Covered Walkway (Type 2) visioning of Government Helipad and Public Toilet tatement of armour rock, retaining walls & new covered walkway along Expo Drive East ulvert N1 & Flood Relief System	835           0           0           835           30           30           835           60           30           60           60           60           60           60           60           60           60           60           60           60           60           60           60           60           60           60           60	08-Jun-13A 20-Apr-15 08-Jun-13A 19-Jun-13A 12-Jun-13A 16-Nov-13A 08-Jun-13A 17-Jan-14A 15-Aug-13A	20-Apr-15 20-Apr-15* 19-Jun-15 27-Apr-15 27-Apr-15 19-Jun-15 20-May-15 30-Apr-15	Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day	Permanent Diversion of Box Culvert M by HK/2 Temp Covered Walkway Capping Bea Temp Covered Walkway Cover Syste Tunnel Tunnel	2009/01 am - Design Approval by AECOM m (PS30.5) - Design Approval by AECOM	
Interface with Others         PRE0950       Permar         PRE0950       Permar         PRE0950       Temp O         PRE-SUB-1000B       Temp O         PRE-SUB-1010B       Temp O         CSD for CWB Tunnel       PRE-CSD-2030B       Tunnel         PRE-CSD-3000B       Tunnel         PRE-CSD-3000B       Tunnel         PRE-CSD-3010B       Tunnel         PRE-CSD-3010B       Tunnel         PRE-CSD-3010B       Tunnel         PRE-CSD-3010B       Tunnel         PRE-CSD-3010B       Tunnel         PRE-CSD-3010B       Tunnel         PRE-CSD-6010B       Tunnel         PRE-CSD-6010B       Tunnel         PRE-CSD-6010B       Stonel         Cottanding Works       SR-PROVID         S3-0070-1499       Reinsta         Sction 7 of the Works - Box Cug       SABWF Works         S7-TB-3100       Landsc         E&M Works       S7-TB-4100       22kV C         S7-TB-4100       Engeriz         Overall Testing & Commissionin       S7-TB-9100         S7-TB-9100       FSD In         S7-TB-9100       FSD In         S7-TB-9100       FSD In	Covered Walkway Capping Beam - Design Approval by AECOM Covered Walkway Cover System (PS30.5) - Design Approval by AECOM el Portion 2 - Redes igned CWB Tunnel Structure Design Submission Approval by AECO el Portion 3&4 - Redesigned Temp D-Wall Submission Approval by AECOM & GEO el Portion 3&4 - ELS Submission Approval by AECOM & GEO el Portion 5 - Temp D-Wall Submission Approval by AECOM & GEO el Portion 5 - Temp D-Wall Submission Approval by AECOM & GEO el Portion 6 - ELS Submission Approval by AECOM & GEO el Portion 6 - ELS Submission Approval by AECOM & GEO erry Roof Panel for Temp Covered Walkway (Type 2) visioning of Government Helipad and Public Toilet tatement of armour rock, retaining walls & new covered walkway along Expo Drive East ulvert N1 & Flood Relief System	0           835           30           30           835           60           30           60           60           60           60           60           60           60           60           60           60           60           60           60           60           60           60           60	08-Jun-13 A 19-Jun-13 A 12-Jun-14 A 08-Jun-13 A 16-Nov-13 A 08-Jun-13 A 17-Jan-14 A 15-Aug-13 A	20-Apr-15* 19-Jun-15 27-Apr-15 27-Apr-15 19-Jun-15 20-May-15 30-Apr-15	Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day	Temp Covered Walkway Capping Bea	am - Design Approval by AECOM m (P\$30.5) - Design Approval by AECOM	
Artical Submission & Approval           PRE-SUB-1000B         Temp O           PRE-SUB-1010B         Temp O           CSD for CWB Tunnel         PRE-CSD-20300B         Tunnel           PRE-CSD-3000B         Tunnel           PRE-CSD-3000B         Tunnel           PRE-CSD-3000B         Tunnel           PRE-CSD-5000B         Tunnel           PRE-CSD-5010B         Tunnel           PRE-CSD-5010B         Tunnel           PRE-CSD-6010B         Tunnel           PRE-CSD-6010B         Tunnel           PRE-CSD-6010B         Tunnel           PRE-CSD-6010B         GRP R           action 3 of the Works - Reprovioustanding Works         S3-0070-1499           S3-0070-1499         Reinsta           action 7 of the Works - Box Cu         GRAP R           action 7 of the Works - Box Cu         GRAP R           action 7 of the Works - Sox Cu         GRAP R           S7-TB-3100         Landsoc           S7-TB-4100         22kV C           S7-TB-4100         Engeriz           Overall Testing & Commissionin         S7-TB-9000           S7-TB-9000         WSD In           S7-TB-9100         FSD In           S7-TB-9100         FSD In </td <td>Covered Walkway Capping Beam - Design Approval by AECOM Covered Walkway Cover System (PS30.5) - Design Approval by AECOM el Portion 2 - Redes igned CWB Tunnel Structure Design Submission Approval by AECO el Portion 3&amp;4 - Redesigned Temp D-Wall Submission Approval by AECOM &amp; GEO el Portion 3&amp;4 - ELS Submission Approval by AECOM &amp; GEO el Portion 5 - Temp D-Wall Submission Approval by AECOM &amp; GEO el Portion 5 - Temp D-Wall Submission Approval by AECOM &amp; GEO el Portion 6 - ELS Submission Approval by AECOM &amp; GEO el Portion 6 - ELS Submission Approval by AECOM &amp; GEO erry Roof Panel for Temp Covered Walkway (Type 2) visioning of Government Helipad and Public Toilet tatement of armour rock, retaining walls &amp; new covered walkway along Expo Drive East ulvert N1 &amp; Flood Relief System</td> <td>835           30           30           30           835           60           30           60           60           60           60           60           60           60           60           60           60           60           60           60           60           60           60</td> <td>19-Jun-13 A 12-Jun-14 A 08-Jun-13 A 16-Nov-13 A 08-Jun-13 A 17-Jan-14 A 15-Aug-13 A</td> <td>19-Jun-15           27-Apr-15           27-Apr-15           20-May-15           30-Apr-15</td> <td>Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day</td> <td>Temp Covered Walkway Capping Bea</td> <td>am - Design Approval by AECOM m (P\$30.5) - Design Approval by AECOM</td> <td></td>	Covered Walkway Capping Beam - Design Approval by AECOM Covered Walkway Cover System (PS30.5) - Design Approval by AECOM el Portion 2 - Redes igned CWB Tunnel Structure Design Submission Approval by AECO el Portion 3&4 - Redesigned Temp D-Wall Submission Approval by AECOM & GEO el Portion 3&4 - ELS Submission Approval by AECOM & GEO el Portion 5 - Temp D-Wall Submission Approval by AECOM & GEO el Portion 5 - Temp D-Wall Submission Approval by AECOM & GEO el Portion 6 - ELS Submission Approval by AECOM & GEO el Portion 6 - ELS Submission Approval by AECOM & GEO erry Roof Panel for Temp Covered Walkway (Type 2) visioning of Government Helipad and Public Toilet tatement of armour rock, retaining walls & new covered walkway along Expo Drive East ulvert N1 & Flood Relief System	835           30           30           30           835           60           30           60           60           60           60           60           60           60           60           60           60           60           60           60           60           60           60	19-Jun-13 A 12-Jun-14 A 08-Jun-13 A 16-Nov-13 A 08-Jun-13 A 17-Jan-14 A 15-Aug-13 A	19-Jun-15           27-Apr-15           27-Apr-15           20-May-15           30-Apr-15	Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day	Temp Covered Walkway Capping Bea	am - Design Approval by AECOM m (P\$30.5) - Design Approval by AECOM	
PRE-SUB-1010B         Temp O           CSD for CWB Tunnel         PRE-CSD-2030B         Tunnel           PRE-CSD-3000B         Tunnel         PRE-CSD-3010B         Tunnel           PRE-CSD-3010B         Tunnel         PRE-CSD-5000B         Tunnel           PRE-CSD-5010B         Tunnel         PRE-CSD-6010B         Tunnel           PRE-CSD-6010B         Tunnel         PRE-CSD-6010B         Tunnel           PRE-CSD-6010B         GRP R         Cetton 2 of the Works - Reprovioutstanding Works         S3-0070-1409         Reinsta           Sction 7 of the Works - Box Cur         ransformer Building for Dining S         ABWF Works         S7-TB-3100         Landsor           S7-TB-3100         Landsor         S7-TB-4100         22kV C         S7-TB-4300         Transfor           S7-TB-4100         S2kV C         S7-TB-9000         WSD Ir         S7-TB-9000         WSD Ir           S7-TB-9100         FSD In         S7-TB-9100         FSD In         S7-TB-9100         FSD In           S7-TB-9100         FSD In         S7-TB-9100         FSD In         S7-TB-9100         SD In           S7-TB-9100         FSD In         S7-TB-9100         FSD In         SO In         S7-TB-900 In	Covered Walkway Cover System (PS30.5) - Design Approval by AECOM el Portion 2 - Redes igned CWB Tunnel Structure Design Submission Approval by AECO el Portion 3&4 - Redesigned Temp D-Wall Submission Approval by AECOM & GEO el Portion 3&4 - ELS Submission Approval by AECOM & GEO el Portion 5 - Temp D-Wall Submission Approval by AECOM & GEO el Portion 5 - Temp D-Wall Submission Approval by AECOM & GEO el Portion 5 - ELS Submission Approval by AECOM & GEO el Portion 6 - ELS Submission Approval by AECOM & GEO rery Roof Panel for Temp Covered Walkway (Type 2) visioning of Government Helipad and Public Toilet tatement of armour rock, retaining walls & new covered walkway along Expo Drive East ulvert N1 & Flood Relief System	30           835           60           30           60           60           60           60           60           60           60           60           60           60           60           60           60           60           60           60	12-Jun-14 A 08-Jun-13 A 16-Nov-13 A 08-Jun-13 A 17-Jan-14 A 15-Aug-13 A	27-Apr-15 19-Jun-15 20-May-15 30-Apr-15	Calendar Day Calendar Day Calendar Day	Temp Covered Walkway Cover Syste	m (PS30.5) - Design Approval by AECOM	
CSD for CWB Tunnel         PRE-CSD-2030B       Tunnel         PRE-CSD-3000B       Tunnel         PRE-CSD-3010B       Tunnel         PRE-CSD-3010B       Tunnel         PRE-CSD-5010B       Tunnel         PRE-CSD-5010B       Tunnel         PRE-CSD-6010B       Tunnel         PRE-CSD-6010B       Tunnel         PRE-CSD-6010B       Tunnel         PRE-PRO-1100B       GRP R         ection 3 of the Works - Reprove       S3-0070-1499         Reinsta       S3-0070-1499         Reinsta       S3-0070-1499         Reinsta       S3-0070-1499         Reinsta       S3-0070-1499         Reinsta       S3-0070-1499         Reinsta       S7-TB-3100         Landsco       E&MWorks         S7-TB-3100       Landsco         E&M Works       S7-TB-4300         S7-TB-4400       Engerid         Overall Testing & Commissionin       S7-TB-9000         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 F	el Portion 2 - Redes igned CWB Tunnel Structure Design Submission Approval by AECO el Portion 3&4 - Redesigned Temp D-Wall Submission Approval by AECO M & GEO el Portion 3&4 - ELS Submission Approval by AECOM & GEO el Portion 5 - Temp D-Wall Submission Approval by AECOM & GEO el Portion 5 - Temp D-Wall Submission Approval by AECOM & GEO el Portion 6 - ELS Submission Approval by AECOM & GEO el Portion 6 - ELS Submission Approval by AECOM & GEO el Portion 6 - ELS Submission Approval by AECOM & GEO ervy Roof Panel for Temp Covered Walkway (Type 2) visioning of Government Helipad and Public Toilet tatement of armour rock, retaining walls & new covered walkway along Expo Drive East ulvert N1 & Flood Relief System	835           60           30           60           60           60           60           60           60           60           60           60           60           60           60           60           60           60           60	08-Jun-13 A 16-Nov-13 A 08-Jun-13 A 17-Jan-14 A 15-Aug-13 A	19-Jun-15 20-May-15 30-Apr-15	Calendar Day Calendar Day	Tunnel		
PRE-CSD-3000B     Turnel       PRE-CSD-3010B     Turnel       PRE-CSD-5000B     Turnel       PRE-CSD-5010B     Turnel       PRE-CSD-6010B     Turnel       PRE-CSD-6010B     Turnel       PRE-CSD-6010B     Turnel       PRE-CSD-6010B     Turnel       PRE-CSD-6010B     Turnel       Pret-CSD-6010B     GRP R       ection 3 of the Works - Box Cu     Cu       castorner Building for Dining S     ABWF Works       S7-TB-3100     Landsco       E&M Works     S7-TB-4100       S7-TB-4100     22k V C       S7-TB-4100     Engeriz       Overall Testing & Commissionin       S7-TB-9100     FSD In       S7-TB-9100     FSD In       S7-TB-9100     FSD In       S7-TB-9100     SD In       S7-TB-9100     SD In       S7-TB-9100     FSD In       S7-TB-9100     FSD In       S7-TB-9100     FSD In       S7-TB-9100     SD In       S7-TB-9100     FSD In       S7-TB-9100     FSD In       S60f     Works in Area 8 - ABWF Works and SB	el Portion 3&4 - Redesigned Temp D-Wall Submission Approval by AECOM & GEO el Portion 3&4 - ELS Submission Approval by AECOM & GEO el Portion 5 - Temp D-Wall Submission Approval by AECOM & GEO el Portion 5 - ELS Submission Approval by AECOM & GEO el Portion 6 - ELS Submission Approval by AECOM & GEO el Portion 6 - ELS Submission Approval by AECOM & GEO rery Roof Panel for Temp Covered Walkway (Type 2) visioning of Government Helipad and Public Toilet tatement of armour rock, retaining walls & new covered walkway along Expo Drive East ulvert N1 & Flood Relief System	60         30         60         60         60         60         60         60         60         60         60         60         60         60         60         60         60	16-Nov-13 A 08-Jun-13 A 17-Jan-14 A 15-Aug-13 A	20-May-15 30-Apr-15	Calendar Day			
PRE-CSD-3010B     Tunnel       PRE-CSD-5000B     Tunnel       PRE-CSD-5010B     Tunnel       PRE-CSD-6010B     Tunnel       critical Procurement & Site Delive     PRE-DRO-1100B     GRP R       cetton 3 of the Works - Reprovi     Soutstanding Works     Reinsta       scion 7 of the Works - Box Curement Ruilding for Dining SABWF Works     S7-TB-3100     Landsci       S7-TB-3100     Landsci     S7-TB-4100     S2kV C       S7-TB-4400     Engeriz       Overall Testing & Commissioning     S7-TB-9100     FSD In       S7-TB-9100     FSD In     Scion 7       S7-TB-9100     FSD In       S7-TB-9100     FSD In       S7-TB-9100     SD In       S7-TB-9100     FSD In       S7-TB-9100     SD In       S7-TB-9100     FSD In       S7-TB-9100     FSD In       S7-TB-9100     FSD In       S7-TB-9100     FSD In       Settin Area 8 - ABWF Works - S8B-FP-01100     Roof Fi	el Portion 3&4 - ELS Submission Approval by AECOM & GEO el Portion 5 - Temp D-Wall Submission Approval by AECOM & GEO el Portion 5 - ELS Submission Approval by AECOM & GEO el Portion 6 - ELS Submission Approval by AECOM & GEO rery Roof Panel for Temp Covered Walkway (Type 2) visioning of Government Helipad and Public Toilet tatement of armour rock, retaining walls & new covered walkway along Expo Drive East ulvert N1 & Flood Relief System	60 60 60 60 60 60 60	17-Jan-14 A 15-Aug-13 A	· ·	Calendar Day	Tupped Dertion 201 Derte-tarted	Portion 2 - Redesigned CWB Tunnel Structure	
PRE-CSD-5000B     Tunnel       PRE-CSD-5010B     Tunnel       PRE-CSD-6010B     Tunnel       iritical Procurement & Site Delive     PRE-PRO-1100B     GRP R       ection 3 of the Works - Reprovioutstanding Works     S3-0070-1499     Reinsta       ection 7 of the Works - Box Cu     Reinsta       action 7 of the Works - Box Cu     S7-TB-3100     Landsco       E&M Works     S7-TB-3100     Landsco       S7-TB-4100     22kV C     S7-TB-4400       S7-TB-4400     Engeriz       Overall Testing & Commissionin     S7-TB-9100       S7-TB-9100     FSD In       sction 8 A of the Works - Reprovision     Roof       Works in Area 8 - ABWF Works     S8B-FP-01100	el Portion 5 - Temp D-Wall Submission Approval by AECOM & GEO el Portion 5 - ELS Submission Approval by AECOM & GEO el Portion 6 - ELS Submission Approval by AECOM & GEO rery Roof Panel for Temp Covered Walkway (Type 2) visioning of Government Helipad and Public Toilet tatement of armour rock, retaining walls & new covered walkway along Expo Drive East ulvert N1 & Flood Relief System	60 60 60 60 60 60	15-Aug-13 A	20-iviay-15	Calendar Day		Temp D-Wall Submission Approval by AECOM Portion 3&4 - ELS Submission Approval by AEC	
PRE-CSD-5010B     Tunnel       PRE-CSD-6010B     Tunnel       ritical Procurement & Site Delive     RE-PRO-1100B     GRP R       ction 3 of the Works     Reinsta       33-0070-1499     Reinsta       ction 7 of the Works - Box Cu     ansformer Building for Duning S       BWF Works     S7-TB-3100     Landsco       8MWF Works     S7-TB-3100     Engeriz       S7-TB-3100     Trans fr       S7-TB-4100     S2kV C       S7-TB-4400     Engeriz       Overall Testing & Commissionin     S7-TB-9000       S7-TB-9100     FSD In       ction 8A of the Works - Reprod     BWF Works       S7-TB-9100     FSD In       Stan BA of the Works - Reprod       BWF & E&M Installation       Works in Area 8 - ABWF Works a       S8B-FP-01100     Roof Fi	el Portion 5 - ELS Submission Approval by AECOM & GEO el Portion 6 - ELS Submission Approval by AECOM & GEO rery Roof Panel for Temp Covered Walkway (Type 2) visioning of Government Helipad and Public Toilet tatement of armour rock, retaining walls & new covered walkway along Expo Drive East ulvert N1 & Flood Relief System	60 60 60	09-Apr-15 A	20-May-15	Calendar Day		Portion 5 - Temp D-Wall Submission Approval	
Critical Procurement & Site Delive         PRE-PRO-1100B       GRP R         Section 3 of the Works - Reprovidutation       GRP R         Satistanding Works       Satistanding Works         S3-0070-1499       Reinsta         Satistanding Works       Box Curement & Soto         Satistanding Works       Satistanding for Dining Satistanding for Dining Satistanding for Dining Satistanding for Dining Satistanding for	rery Roof Panel for Temp Covered Walkway (Type 2) visioning of Government Helipad and Public Toilet tatement of armour rock, retaining walls & new covered walkway along Expo Drive East ulvert N1 & Flood Relief System	<mark>60</mark> 60			Calendar Day			n 5 - ELS Submission Ap
PRE-PRO-1100B     GRP R       ection 3 of the Works - Reprovention of the Works     S3-0070-1499       Reinstate     Reinstate       ection 7 of the Works - Box Currentsformer Building for Dining S     ABWF Works       S7-TB-3100     Landsce       E&M Works     S7-TB-3100       S7-TB-3100     22kV C       S7-TB-4100     22kV C       S7-TB-4400     Engeriz       Overall Testing & Commissionin     S7-TB-9000       S7-TB-9100     FSD In       S7-TB-9100     FSD In       S7-TB-9100     FSD In       S7-TB-9100     Roof       Works in Area 8 - ABWF Works a       S8B-FP-01100     Roof F	Roof Panel for Temp Covered Walkway (Type 2) visioning of Government Helipad and Public Toilet tatement of armour rock, retaining walls & new covered walkway along Expo Drive East ulvert N1 & Flood Relief System		09-Apr-15 A	19-Jun-15 11-May-15	Calendar Day		Tunnel Portion	n 6 - ELS Submission Ap
Dutstanding Works         S3-0070-1499       Reinsta         S3-0070-1499       Reinsta         Saction 7 of the Works - Box Cu       Fansta         Saction 7 of the Works       Social State         S7-TB-3100       Landsoc         E&M Works       S7-TB-3100         S7-TB-3100       22kV C         S7-TB-4100       22kV C         S7-TB-4300       Transfor         S7-TB-4100       Engeriz         Overall Testing & Commissionin       S7-TB-9000         S7-TB-9100       FSD In         ection 8A of the Works - Repro       Report         BWF & E&M Installation       Roof         Works in Area 8 - ABWF Works a       S8B-FP-01100	tatement of armour rock, retaining walls & new covered walkway along Expo Drive East ulvert N1 & Flood Relief System	264	15-Jun-14 A		Calendar Day	GRP Roof Panel fo	or Temp Covered Walkway (Type 2)	
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			
ransformer Building for Dining & ABWF Works S7-TB-3100 Landso E&M Works S7-TB-4100 22kV C S7-TB-4300 Trans fr S7-TB-4400 Engeriz Overall Testing & Commission in 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			11-Aug-12 A	-	HK Working HK Working	Reinsta	atement of armour rock, retaining walls & new o	overed walkway along F
ABWF Works         Iandso           S7-TB-3100         Landso           E&M Works         Iandso           S7-TB-4100         22kV C           S7-TB-4300         Transfr           S7-TB-4400         Engeria           Overall Testing & Commissionin         S7-TB-9000           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 F	Services at Ferry Bier (VO116)		29-Oct-14 A	· · · · ·	Calendar Day			
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			
S7-TB-4100     22kV C       S7-TB-4300     Trans for       S7-TB-4400     Engeriz       Overall Testing & Commissionin     S7-TB-9000       S7-TB-9100     FSD in       ection 8A of the Works - Repro     Roof       Works in Area 8 - ABWF Works a     S8B-FP-01100	caping Works	30	21-Apr-15	20-May-15	Calendar Day	Landso	caping Works	
S7-TB-4300     Transfe       S7-TB-4400     Engeriz       Overall Testing & Commissionin     Sr-TB-9000       S7-TB-9000     WSD Ir       S7-TB-9100     FSD In       ection 8A of the Works - Repro     SBF & E&M Installation       Roof     Works in Area 8 - ABWF Works a S8B-FP-01100	Cable across UUD to Transformer Duilding by UEC		29-Oct-14 A 29-Oct-14 A		Calendar Day	2214/ Cable serves HUD to Transformer Bui		
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 Fill	Cable across HHR to Transformer Building by HEC former Installation by HEC	45 30	29-Oct-14 A 10-Apr-15 A		Calendar Day Calendar Day	22kV Cable across HHR to Transformer Bui	liaing by HEC	
S7-TB-9000     WSD Ir       S7-TB-9100     FSD In       ection 8A of the Works - Repro     Roof       BWF & E&M Installation     Roof       Works in Area 8 - ABWF Works a     S8B-FP-01100	ization of Transformer	7	01-May-15		Calendar Day	Engerization of Transfor	mer	
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	•
		-	.,	,		Date	Revision Checked	Approved
	Remaining Work	.		<b>_</b> ·	CEDD CONTRACT	NO. HK/2009/02		
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D	Activity Name	OD	Start	Finish	Calendar	Apr		May	2015 Ju
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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		<del></del>	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		<b>—</b> 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				🔲 🖞 HVD Base Slab - V
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	<b>—</b> 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

		Jul	Aug
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		
	ebar Fixing aterproofing		
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CEDD CO	NTRACT HK/2009/02								
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	<b>`</b>	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)			

) - C	RGL、	JOINT VE	ENTURE
	L		· · · · · · · · · · · · · · · · · · ·
	Data 5	Jul 67	Aug 68
	Rebar Fixing Rebar Fixing		
ll (Middle)	- Formwork & Co outh) - Formwor		
Wall (N	orth) - Formworl	< & Concrete	
📕 Wa	all (South) - Curin	ormwork Removal g & Formwork Removal	
Wa		g & Formwork Removal VD Base Slab - Scaffoldir	g Erection
		OHVD Base Slab - Wa	aterproofing to Upper Side Base Slab - Formwork
			Base Slab - Formwork
	<u> </u>		
			1 1 1
	Air lifting for re	moval of sunken objects	(VO203)
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## CEDD CONTRACT HK/2009/02

wity ID Ar	ctivity Name	uC gnO	Scheduled/ Actual Start	Scheduled/ Actual Finish	Total Float Calen	dar					
			Actual Start	Actual Finish		-	Aug	2015	-		
	ng Programme 2015-08-20 (dd 20-Aug-15)									NDV	Dec
	es (Revised up to EOTO No.12 issued on 15-Jun-15)										
Contractual Completion											
Soft Landscaping & Esta	ection 98 Works (2105 days) - CWB Structure (CH3400 Eastward) (3-Nov-15)	<u>a</u>		03-Nov-15*	0 Calen	dar Day		1	Section 98 V	Norks (2105 days) - CW	B Structure (CH34)
	action 8D Works (1838 days) - Establishment Works in Area 8 (10-Feb-15)								1 Providence and	and for the online of the	o o nacione ( Grider
Possession of Site	activities (1996 6895) - Calego Similarit Monts in Area 6 (10-Feb-15)	0		20-Aug-15+	-192 Calen	dér Day	Section 8D Works (1838 days) + Establishment W	Vorks in Area 8 (10-Feb-15)			
P\$0070 Pc	ossession of Portion 7 - Eastern Bulkhead	0	16-Sep-15*		-60 Calen						
Preliminaries			To-alip-ta		-b0 Calen	dar Day	Possession of	Portion 7 - Eastern Bulkhead			
Interface with Others											
PRE0950 Pe	ermanent Diversion of Box Culvert M by HK/2009/01	0		30-Aug-15*	-469 Calem	the Date					
Critical Submission & A		~		pointing. to		dar Day	Permanent Diversion of Box Culvert	M by HK/2009/01			
	emp Covered Walkway Capping Beam - Design Approval by AEGOM	30	19-Jun-13 A	18-Sep-15	348 Calan	dar Dav		La materia a ser			
	emp Covered Walkway Cover System (PS30.5) Design Approval by AECOM	30	12-Jun-14 A	16-Sep-15	348 Calen		Temp Covered	Wakway Capping Beam - De	sign Approval by AECOM		
CSD for CWB Tunnel							ventp covered	Wakway Cover System (PS.	20.5) - Design Approval by A	AECOM	
PRE-CSD-20308 Tu PRE-CSD-30008 Tu	unnel Portion 2 - Redesigned CWB Tunnel Structure Design Submission Approval by AEC	60	16-Nov-13 A	28-Aug-15	67 Caleni	dar Day	Tunnel Potion 2 - Redesigned CWB T	unner Structure Design Subm	ssion Annoval by AFCOM		
	unnel Portion 384 - Redesigned Temp D-Wall Submission Approval by AECOM & GEO	30	08-Jun-13 A.	11-Sep-15	53 Calan		Tunnel Portion 364 -	Redesigned Temp D-Wall Su	britisaion Approval by AECC	M&GEO	
	unnel Portion 384 - ELS Submission Approval by AECOM & GEO unnul Portion 5 - Temp D-Walt Submission Approval by AECOM & GEO	60	17-Jan-14 A	18-Sep-15	-316 Caleni		Tunnel Portio	on 384 - ELS Submission App	roval by AECOM & GED. T	unnel Portion 384 - ELS	Submission Appr
	unnel Portion 5 - ELS Submission Approval by AECOM & GEO	60	15-Aug-13 A	21-Sep-15	-389 Caleni		Tunnel P	ortion 5 - Temp D-Wall Subm	ission Approval by AECOM	& GEO, Tunnel Potion	5- Temp D-Wall S
	ks - Reprovisioning of Government Helipad and Public Toilet	au.	09-Apr-15 A	17-0d-15	-363 Çaleni	dar Day		Tunne	Portion 5 - ELS Submissio	n Approval by AECOM	& GEO, Tunnel Pa
Outstanding Works	the second										Contraction of the line
	ninstatement of armout rock, retaining walls & new covered walkway along Expo Drive East	254	11. 1		a state of the state						
ection 9B of the Wo	rks - CWB Tunnel Structure (CH3400 - CH3796)	2.34	11-Mug-12 A	01-May-10	-287 Calen:	dar Day					
Funnel Portion 1 (CH35											
CWB Structural Works											
	amove Inclined Struts and King Posts (Bay 1 to Bay 6)	45	29-Jun-15 A	31-Aug-15	-43 HK W	ation Day		and and set			
	onstruct Roadside Barriers (Bay 1 to Bay 5)	30	19-Nov-15	23-Dec-15	-43 HK W		Remove Inclined Struts and King P	osts (Bay 1 to Bay 6). Remove	e Inclined Struts and King Pl	osts (Bay 1 to Bay 6)	
Tunnel Portion 2 (CH34)	25-CH3500)				- The Factor	aning cray.					
CWB Structural Works											
	prestruct Roadside Barriers (Bay 1 to Bay 6)	65	01-Sep-15	18-Nov-15	-43 HK Wa	orking Day	and a second	Contraction Contraction			2000000000
Bay 1 S9B-T2-B1-3260 Ro	oof - Waterproofing									Construct Roads &	de Barners (Bay 1)
	oof - Scatfolding Dismanting		01-Sep-15*	04-Sep-15	-23 HK We		Roof - Waterproofing, Roof - V	Valerproofing			
Boy 2	or standing pananting	3	20-Aug-15	22-Aug-15	14 HK W	xking Day	Roof - Scatfolding Dismanting	1.00.2			
	ool - Waterproofing	4	05-Sep-15	09-Sep-15	.93 HK Wa	which Day			******************		
\$98-T2-82-3220 Ro	ool - Scaffolding Dismantling	3	20-Aug-15	22-Aug-15	14 HK Wa		Roof - Scaffolding Dismantling				
Bay 3							The second standing standing				
	oof - Waterproofing	4	10-Sep-15	14-Sep-15	93 HK W		Roof - Waterproof	ling.			
598-12-83-3220 Ro Boy 4	our - Scatfolding Dismantling	3	20-Aug-15	22-Aug-15	14 HK Wa	xking Day	Roof - Scatfolding Dismanting	1			
	sof - Formwork		19-Jul-15 A	25 A				And a state of the			
	of - Rebar Faxing	10	27-Aug-15	26-Aug-15 07-Sep-15	-14 HK Wa		Roof - Formwork, Roof - Formwork	2.21.2.2.2			
\$98-T2-84-3200 Ro	of - Concrete & Curing	14	08-Sep-15	21-Sep-15	-14 HK Wo -17 Calence		Roof - Rebar Fixing, Roof -		10.00 M		
	sal - Waterproofing	4	22-Sep-15	25-Sep-15	83 HK.Wa			rente & Curing, Roof - Conc - Waterproofing	rete & Curing		
\$98-12-84-3220 Ro	of - Scaffolding Dismanting	3	22-Sep-15	24-Sep-15	-14 HKW0			- Scatfolding Dismantling, Roc	The second second second		
Bay 5 \$98-12-85-3110 OF							- NOO	Scanobing Dismanning, Ko;	r - scatolong Dismanting		
	HVD Base Stat Scattolding Erection	4	18-Aug-15 A	21-Aug-15	-46 HK Wo		OHVD Base Slab - Scalfolding Erection, OHVD	Base Slab - Scalfolding Erect	ón		
	HVD Base Stab - Waterproofing to Upper Side Wat HVD Base Stab - Formwork	3	20-Aug-15	22-Aug-15	-46 HK Wo		OHVO Base Slab - Waterproofing to Upper Sid	Wall. OHVD Base Stab - W	Aterpropling to Upper Side V	Nall	
	HVD Base Slab - Rebar Fixing	3	24-Aug-15 27-Aug-15	25-Aug-15 31-Aug-15	-46 HK Wo		OHVD Base Slab - Fornwork, OHVD Bas	e Slab - Formwork			
	IVD Base Slab - Concrete, Curing & Formwork Dismantiling	14	01-Sep-15	14-Sep-15	-46 HK Wo -54 Calend		OHVD Base Siab - Rebar Fixing, O	WD Base Slab - Reber Fixing	1		
\$98-T2-85-3160 QH	HVD Hanger Wall - Formwork, Rober & Concrete	3	04-Sep-15	07-Sep-15	-40 HK W2		OHVD Base Slab	Concrete, Curing & Formwor	k Dismanilling, OHVD Base	Slab - Concrete, Curing	& Formwork Desn
\$98-T2-85-3170 Ro	oof - Scattelding Erection for Roof	7	15-Sep-15	22-Sep-15	-46 HK WC		OHVD Hanger Wall - Form	work, Rebar & Concrete, OH	/D Hanger Wall - Formwork	Rebar & Concrete	
							Roof-S	calfolding Erection for Root, R	toot - Scallolding Erection to	ar Roof	_
<ul> <li>Milestone</li> </ul>								Date	Revision	Chiefer	1 4-
<ul> <li>Critical Milestor</li> </ul>	nes							20-Aug-15	3MRP	Checked	Approved
Current Works	CHUN WO - CRGL			0		NTD AOT NO	111/10000100	ev nug- 10	amiter		-
	CHON WO - CROL			CE	-00 00	NIRACINC	). HK/2009/02				
Critical Works			Dar Lo N	Sec. 15.	3			-	2.12	-	
	JOINT VENTURE	V	VDII-C	entral V	Vanchai	Bypass at 1	Nan Chai East (Contract 2)				
	A DATE THE ADDRESS CONTRACTORS		C.C. Conta			-Jhanes at	(contract 2)	2	1		
			2 1	IONTH	DOLLIN	C DDOOD	MME (dd 20-Aug-15)		144		

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## CEDD CONTRACT HK/2009/02

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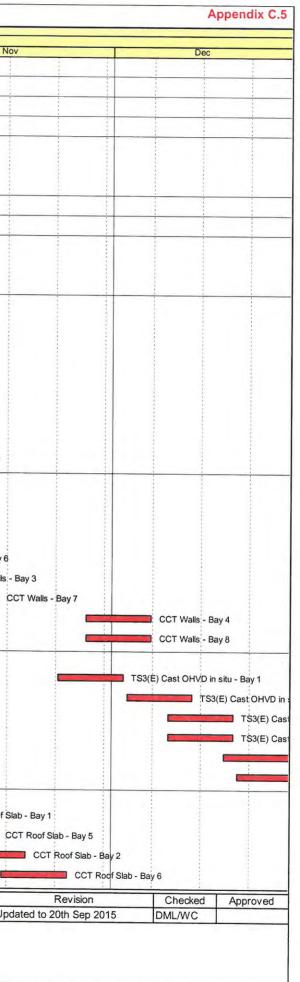
	Activity Name	Ong Du	Scheduled	Schedulad/	Total Float Calendar			
and the second			Actual Start	Actual Floish	Total Float Galendar			
S98-72-85-3180	Roof - Formwork	9	23-Sep-15	05-0d-15		Aug	Sep	2015 0ct Nov 54
S98-72-85-3190	Roaf - Rebar Fixing	10	06-0d-15	15-Oct-15	-46 HK Working Day			Rool - Formwork, Rool - Formwork
S98-T2-85-3200	Roof - Concrete & Curvig	14	17-0:1-15	30-Oct-15	-46 HK Working Day		and the second se	Roof - Rebar Fixing, Roof - Rebar Fixing
\$98-T2-85-3210	Roof - Waterproofing		31-0d-15	30-Oct-15 04-Nov-15	-56 Calendar Day			Roof - Concrete & Curing, Roof - Concrete & Curing
\$98-T2-85-3220	Roof - Scatfolding Dismanting	3	31-0d-15		48 HK Warking Day			Root - Cancrete & Curring, Root - Concrete & Guring
Bay 6		à	31-0d-15	03-Nov-15	-45 HK Working Day			
S98-T2-66-3170	Root - Scattolding Erection for Root	7	15-Sep-15		and the second	4 * * 1 * 4 * * * * * * * * * * * * * *		Roof - Scattolding Dismantling, Roof - Scattolding
\$98-T2-86-3180	Roof - Formwork			22-Sep-15	-46 HK Working Day	and the second s	Roof -	Scattolding Erection for Roof, Roof - Scattolding Erection for Roof
S98-T2-B8-3190	Roof - Rebar Fixing	-	23-Sep-15	05-0d-15	-46 HK Working Day			Roof - Formwork, Roof - Formwork
\$98-T2-86-3200	Roof - Concrete & Currog	10	06-Oct-15	16-Dd-15	-46 HK Working Day			Roof - Rebar Fixing, Roof - Rebar Fixing
\$95-T2-B5-3210	Roof - Waterproofing	16	17-0ct-15	30-Od-15	-56 Calendar Day			
598-T2-86-3220	Roof - Scalfolding Dismantling	. 4	05-Nov-15	09-Nov-15	48 HK Working Day			Roof - Concrete & Curing, Roof - Concrete & Curing
unnel Portion 3.8	Tunnel Portion 4 (CH3630-CH3790)	3	31-Od+15	03-Nov-15	-45 HK Working Day			Roof - Waterproofing
WB Structural Wor	de la							Roof - Scaffolding Dismanting, Roof - Scaffolding
S98-T34-20008								
S9B-T34-3500	Turnel Portion 3 & 4 Excavation to Formation Level (200.000m3 soil and rock@1100m3/d) &	182	13-Feb-15 A	14-Nov-15	-298 HK Working Day			
Bay 1	Rock Excavelion and Rock Boll Installation	21	10-0d-15	04-Nov-15	-255 HK Working Day			Tunnet Portion 3 & 4 Excavation to F
S98-T34-B1-1000	Trem Rowell Dia & Disation Law Co. B.				Contracting Car	Thereeteeteeteeteeteeteeteeteeteeteeteetee		Rock Excevation and Rock Bolt Installation, Rock
	Trim Bored Pite & Blinding Layer for Bay 1 and Bay 2 Base Slab	5	02-Nov+15	06-Nov-15	-365 Calendar Day			
	Works - Remainder of Works				and the second			Trim Bond Pile & Blinding Layer for Bay 1 and
larine Works at Wo					-			
\$11-R3-1300	1st Stage Rockfilling after Removal of unknown metal objects	40	14-Jul-16 A					
11-R3-1400	Installation of Permanent Seawall (5 nos.)	14		20-Sep-15	-602 Calendar Day		1st Stage	Rockfilling after Removal of unknown metal objects, 1st Stage Rockfilling after Removal of unknown
11-R3-1500	2nd Stage Rockfilling after installation of Caisson Seawall	40	21-Sep-15	08-0d-15	-480 HK Working Day			Installation of Beneval of Installation of Control of University of University of University of Control of University of Control of University of Control of University of Control of Contr
S11-R3-1600	Tat Reclamation to +7.0mPD		09-Oct-15	25-Nov-15	-480 HK Working Day			Installation of Permanent Seawall (5 nos.), Installation of Permanent Seawall (5 no
S11-R3-1700	Installation of Permanent Seawall Block	39	20-Aug-15	06-Oct+15	-438 HK Working Day			2nd Stage Rockfling a
ormation and Hard	Landscaping Works (except Area 10)	14	09-Oct-15	26-Od-15	-424 HK Working Day			1st Reclamation to -7.0mPD, 1st Reclamation to -7.0mPD
511-FM-2000A	Tunnel Portion 2 Backfilling (35,000m3; 350m3/d)							Installation of Permanent Seawall Block. Installation of Perma
		:95	10-Nov-15	12-Feb-16	64 Calendar Day			
	& Establishment Works			and the local data				
ection 8C of the W	orks - Landscape Softworks in Area 8							
SBC-0010	Carry out landscape soft work on new ferry plot	90	07-0d-14 A				the standard have been a second	
ection 8D of the We	orks - Establishment Works in Area 8	20	07-00-14 A	22-Aug-15	-560 Calendar Day		Carry out landscape soft work on new ferry pie	Carry out landscape soft work on new ferry pler
8D-0010	Carry out establishment work on new ferry pier							a second second second second bed
ection 12 of the Wo	orks - Protection and Preservation of Existing Trees	365	23-Aug-15	Z1-Aug-16	-560 Calendar Day			
12-0010	Protection and preservation of existing trees							
JMMARY PROGR		2375	24-Feb-10 A	29-Aug-16	0 Calendar Day			
WB Tunnel Constru	uction & Remaining Works (Section 9A, 9B, 10 & 11)							
WB Tunnel Works in	n WCR2							
SUM-CWB-23000	CWB Tunnel Portion 2 Construction	:261	19-Jan-15 A	30-0d-15				THE REPORT OF A DESCRIPTION OF A DESCRIP
5UM-CWB-24000	Backfilling for Tunnel Podion 2	95	10-Nov-15		-55 Galendar Day			
WB Tunnel Works in	n WCR3	83	10-1007-15	12-Feb-16	64 Calendar Day			
SUM-CWB-30000C	Reclamation at WCR3	174	and the second second					
IAID TO DO DO DO DO	n WCR4/TWCR4	174	14-Jul-15 A	28-Jan-16	-600 Calendar Day			
Was runner works in	Pump Test & Excavation for Tunnel Portion 384	230	the second s	-			14 · L · · · · · · · · · · · · · · · · ·	
UM+CWB-42000			13-Feb-15 A	14-Nov-15	-373 Calendar Day			

Milestone     Critical Milestones     Current Works     Critical Works	CHUN WO - CRGL JOINT VENTURE	CEDD CONTRACT NO. HK/2009/02 WD II - Central Wanchai Bypass at Wan Chai East (Contract 2) 3-MONTH ROLLING PROGRAMME (dd 20-Aug-15)	Date 20-Aug-15	Revision 3MRP	Checked	Approved
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ity ID	IU30-1 Activity Name			SR8 -	Layout for 3MRP	_2105_09			
ity ito	Activity Name	Origina Duration	I Start	Finish				0015	
WP-06 (A) -	Three Months Rolling Programme_updated up to 20-Sep-15		-		Sep		Oct	2015	
Norks in TS3	approved by to 20-00p-10								
Works in TS3-Ea	ast								
ELS									
TS3-East ELS W	Vorks								
TS3E_5660	ELS Layer 7 - Soft Excav + Strut installation	10	24-Aug-15 A	21-Sep-15 A					
TS3E_5670	Excavation up to Formation Level (No Rock as Rock Head Level is far below F.L.)	6	03-Sep-15 A	22-Sep-15 A	1		t Excav + Strut installation		
Cut & Cover Tur	nnel Structure		in est ren			Excavation up to	Formation Level (No Rock as Rock I	Head Level is far below F.L	)
TS3-East CCT -	Ch.4500.000 to Ch.4582.140								
TS3 East CCT -	Blinding + Waterproofing								
TS3E_6515	TS3(E) Blinding - Bay 1 - 8	8	14-Sep-15 A	27-Sep-15	-				1
TS3E_6525	TS3(E) Waterproofing - Bay 1 - 8	12	22-Sep-15 A	01-Oct-15			E) Blinding - Bay 1 - 8		
TS3 East CCT -	Base Slab + Drainage System		22-00p-10A	01-001-13			TS3(E) Waterproofing - Bay 1 - 8		
TS3E_6570	CCT Base Slab - Bay 1 (Ch.4500.000 to Ch.4510.000)	8	23-Sep-15 A	01-Oct-15					
TS3E_6610	CCT Base Slab - Bay 5	8	30-Sep-15 A	07-Oct-15			CCT Base Slab - Bay 1 (Ch.4500.00	0 to Ch.4510.000)	
TS3E_6580	CCT Base Slab - Bay 2	8	02-Oct-15	09-Oct-15			CCT Base Slab - Bay 5		1
TS3E_6620	CCT Base Slab - Bay 6	8	02-Oct-15				CCT Base Slab - Bay	2	-
TS3E_6590	CCT Base Slab - Bay 3	8	10-Oct-15	15-Oct-15			CCT Base		
TS3E_6630	CCT Base Slab - Bay 7	8	16-Oct-15	17-Oct-15			CCT Ba	se Slab - Bay 3	
TS3E_6600	CCT Base Slab - Bay 4	8	18-Oct-15	23-Oct-15	į			CCT Base Sab - Bay 7	
TS3E_6640	CCT Base Slab - Bay 8	8	24-Oct-15	25-Oct-15	1			CCT Base Slab - Ba	ay 4
TS3 East CCT -	Walls + Removal of Struts 7 & 8	0	24-001-15	31-Oct-15				CCT Bas	se Slab - Ba
TS3E_6650	CCT Walls - Bay 1	10	10-Oct-15	10 0 4 45					
TS3E_6690	CCT Walls - Bay 5	10	16-Oct-15	19-Oct-15			CCT	Walls - Bay 1	-
TS3E_6660	CCT Walls - Bay 2	10		25-Oct-15				CCT Wals - Bay 5	
TS3E_6700	CCT Walls - Bay 6	10	20-Oct-15 26-Oct-15	29-Oct-15			-	CCT Walls -	Bay 2
TS3E_6670	CCT Walls - Bay 3	10		04-Nov-15			-	c	CT Walls -
TS3E_6710	CCT Walls - Bay 7		30-Oct-15	08-Nov-15					ССТ И
TS3E_6680	CCT Walls - Bay 4	10	05-Nov-15	14-Nov-15	1				
TS3E_6720	CCT Walls - Bay 8	10	27-Nov-15	06-Dec-15					
	OHVD Cast In-Situ	10	27-Nov-15	06-Dec-15					
TS3E_6860	TS3(E) Cast OHVD in situ - Bay 1	10	22 Nov 45	02 Dec 15					
TS3E_6870	TS3(E) Cast OHVD in situ - Bay 2	10	23-Nov-15	02-Dec-15					
TS3E_6880	TS3(E) Cast OHVD in situ - Bay 3	10	03-Dec-15	12-Dec-15					55444
TS3E_6900	TS3(E) Cast OHVD in situ - Bay 5	10	09-Dec-15	18-Dec-15					
TS3E_6890	TS3(E) Cast OHVD in situ - Bay 4	10	09-Dec-15	18-Dec-15					
TS3E_6910	TS3(E) Cast OHVD in situ - Bay 6	10	17-Dec-15	26-Dec-15					
TS3 East CCT - I		10	19-Dec-15	28-Dec-15					
TS3E_6730	CCT Roof Slab - Bay 1	40	20.0.1.45	00.11					
TS3E_6770	CCT Roof Slab - Bay 5	10	30-Oct-15	08-Nov-15					
TS3E_6740	CCT Roof Slab - Bay 2	10	05-Nov-15	14-Nov-15					
TS3E_6780	CCT Roof Slab - Bay 6	10	09-Nov-15	18-Nov-15					
		10	15-Nov-15	24-Nov-15					
	Actual Wor	ĸ		Page 1 of 5					Date
中国	建築工程(尋萊)倉限公司 Remaining							20-Se	ep-15
中國 CHINA STAT	建黎工程(香港) 介閣公司 TE CONSTRUCTION ENGINEERING (HONG KONG) LTD.	maining Wo	ork				Wanchai Bypass Tunn	el +(Slip	
	Milestone			D	and Q Castin		s Rolling Progamme		

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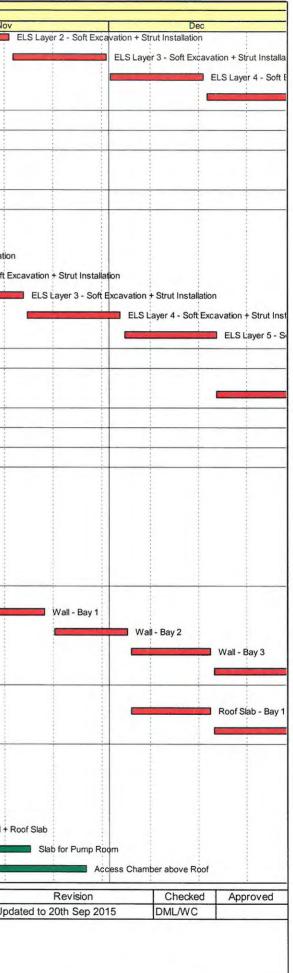
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		Original Duration		Finish					2015	
TS3E_6750	CCT Roof Slab - Bay 3	10	19-Nov-15	28-Nov-15	S	ep		Oct	2013	N
TS3E_6790	CCT Roof Slab - Bay 7	10	25-Nov-15	04-Dec-15	-					
TS3E_6800	CCT Roof Slab - Bay 8	10	07-Dec-15							
TS3E_6760	CCT Roof Slab - Bay 4	10	07-Dec-15	16-Dec-15						
TS3 East CCT -	Roof Slab Waterproofing + Screeding	10	07-Dec-15	16-Dec-15						
TS3E_6810	TS3(E) Waterproofing to Roof Slab - Bay 1 to Bay 4	10	00 D 45							
TS3E_6840	TS3(E) Screeding - Bay 1 to Bay 4	12	09-Dec-15	20-Dec-15						
TS3E_6820	TS3(E) Waterproofing to Roof Slab - Bay 6 to Bay 8	12	13-Dec-15	24-Dec-15						
TS3E 6850	TS3(E) Screeding - Bay 6 to Bay 8	12	13-Dec-15	24-Dec-15		1				
Vorks in TS3-We		12	17-Dec-15	28-Dec-15				_		
Diaphragm Wall						-				
TS3-West Pre-D/										
TS3W_2540	Guidewall construction	106	11-Feb-15 A	25-Sep-15			Guidewall construction			
TS3W_2530	Curtain grout/soil pre-treatment/slurry wall	137	12-Feb-15 A	26-Sep-15	-		Curtain grout/soil pre-treatm	ent/slurry wall		
TS3-West Diaphr	agm Construction					-				
TS3W_3120	Diaphragm wall construction Phase 2 (84/137 panels)	152	03-Jun-15 A	14-Nov-15						
TS3-West Post D	/wall Works								1	
TS3W_3530	D/wall integrity test	100	04-Jun-15 A	13-Dec-15						
TS3W_3510	D/wall Interface coring + grouting	100	06-Jun-15 A			-			1	1 1
TS3W_3520	D/Wall Coring + fissure grouting			12-Dec-15						
TS3W_3540	Dewatering & observation well installation	100	24-Jun-15 A	01-Jan-16	1 1					1 1
TS3W_3550	Pumping test	36	10-Oct-15	14-Nov-15						<u> </u>
LS & Rock Exca		7	15-Nov-15	21-Nov-15						
ELS Fabrication V										1
TS3W_4510										
-	ELS struts & waling fabrication	75	17-Sep-15 A	30-Nov-15						1
TS3-West ELS Wo									-	
TS3W_4515	King Post installation	45	18-May-15 A	30-Nov-15		i				
TS3W_4520	Start of ELS - Layer 1: Soft excavation struts installation	15	01-Dec-15	15-Dec-15		1				
TS3W_4530	Layer 2: Soft excavation struts installation	15	16-Dec-15	30-Dec-15						
	Open Cut Method)					-				
R8 - Cofferdam 8	Cut & Cover Tunnel Works					-				
R8 East Bound -	(Seaside to Victoria Road / IEC Central Divider)									
TTA Stage 2 - East	Bound									
Stage 3 - East Bo	und (Ref. DRG. No.CDD/SR8/084)		-							
SR8.EB.1510	Install Dewatering Wells and Observation Wells	6	03-Sep-15 A	26-Sep-15						
SR8.EB.1520	Carry out Pump Test		-		1 1		Instal Dewatering Wells and			
Stage 4 - East Bo	und (Ref. DRG. No.CDD/SR8/084)	6	29-Sep-15	06-Oct-15			Carry out F	Pump Test		
SR8.EB.1490	Carry out Stage 4 Pipe Piling Works									
SR8.EB.1500	Carry out Stage 4 Tam Grout	36	05-Sep-15 A	30-Sep-15	1 1		Carry out Stage 4 Pip	e Piling Works		1
		14	02-Oct-15	17-Oct-15				Carry out Stage 4	Tam Grout	1
	to Ch.459.000 (East Bound) - ELS / CCT / BF + Reinstatement Works									
ELS Works										
SR8.EB.1610	Commence ELS works (Cofferdam Complete)	0	19-Oct-15					Commence ELS	works (Cofferdam	n Complete)
SR8.EB.1620	ELS Layer 1 - Soft Excavation + Strut Installation	12	19-Oct-15	02-Nov-15						er 1 - Soft Exca
						d and			ELS Laye	er 1 - Son Exca
		Actual Work		Page 2 of 5	2				Da	ate
中國這 CHINA STATE		Remaining Work				Sec. Sec.	entral - Wanchai By		20-Sep-	-15 Upo
		Critical Remaining Wor			4 88 8838100	and the second states of the s				

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	CCT Roc	of Slab - Bay	7
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phroam			
ipinagin wall const	ruction Phase 2 (84/137	panels)	
		1 1 1	
-		D/wall	integrity test
		D/wall Ir	iterface corir
-	1 1		
Pumping	test		
			1
	ELS struts & wali	ng fabricatior	1
	ELS struts & wali	ng fabricatior	1
			1
	ELS struts & wali	tion	
		tion	n Irt of ELS - Li
		tion	
ation + Strut Instalk	King Post installa	tion	
1	tion	tion	rt of ELS - L
ation + Strut Instalk Revisior ted to 20th Sep	Ation Che	tion Sta	

	the second se	Original Duration		Finish		ep		2015	
SR8.EB.1621	ELS Layer 2 - Soft Excavation + Strut Installation	12	03-Nov-15	16-Nov-15		sep	Oct	:	
SR8.EB.1622	ELS Layer 3 - Soft Excavation + Strut Installation	12	17-Nov-15	30-Nov-15					
SR8.EB.1623	ELS Layer 4 - Soft Excavation + Strut Installation	12	01-Dec-15	14-Dec-15					
SR8.EB.1624	ELS Layer 5 - Soft Excavation + Strut Installation	12	15-Dec-15	30-Dec-15					
R8 West Bound	- Ch. 459.000 to 385.000 (Victoria Road / IEC Central Divider)								
TTA Stage 2 - Wes	t Bound								
Stage 3 - West Bo	ound (Ref. DRG. No.CDD/SR8/087)								
SR8.WB.3060	Install Dewatering Wells & Carry out Pump Test	20	03-Sep-15 A	30-Sep-15			Install Dewatering Wells & Carry out Pump	Test	
Tunnel Ch.459.000	to 385.000 (West Bound) - ELS / CCT/ BF+Reinstatement Works								
West Bound - EL	S								
SR8.WB.5070	Commence ELS works (Cofferdam Complete)	0	07-Oct-15				Commence ELS works (Coffe	rdam Complete)	
SR8.WB.5080	ELS Layer 1 - Soft Excavation + Strut Installation	12	07-Oct-15	20-Oct-15			ELSI	aver 1 - Soft Excavat	tion + Strut I
SR8.WB.5130	ELS Layer 2 - Soft Excavation + Strut Installation	12	22-Oct-15	04-Nov-15					ELS Layer
SR8.WB.5140	ELS Layer 3 - Soft Excavation + Strut Installation	12	05-Nov-15	18-Nov-15	1.1.1				
SR8.WB.5150	ELS Layer 4 - Soft Excavation + Strut Installation	12	19-Nov-15	02-Dec-15					
SR8.WB.5160	ELS Layer 5 - Soft Excavation + Strut Installation	12	03-Dec-15	16-Dec-15					
West Bound - CC	T Structural Works								
Blinding + Water	proofing								
SR8.WB.5090	Blinding for Bay 1 to Bay 8	9	16-Dec-15	29-Dec-15					
R8 Ch.385.000 to	Ch.317.500 - (Inside Victoria Park to Tunnel Portal)		1					1	
	CCT / BF Works ( 7 Bays Ch. 385.000 to Ch.317.500)								
Portal Structure	. , , , , , , , , , , , , , , , , , , ,								
Base Slab + Drain	nage								
SR8.VP.5120	Base Slab - Bay 3	8	10-Sep-15 A	22-Sep-15 A		Base Slab -	Day 2		
SR8.VP.5130	Base Slab - Bay 4	8	10-Sep-15 A	22-0ct-15A		Base Sidu -			
SR8.VP.5140	Base Slab - Bay 5	8	05-Oct-15	13-Oct-15				e Slab - Bay 4	
SR8.VP.5150	Base Slab - Bay 6	8	14-Oct-15	23-Oct-15			Base Slab - Bay 5		1
SR8.VP.5160	Base Slab - Bay 7	0						Base Slab - Bay 6	
Wall + Removal o		0	24-Oct-15	02-Nov-15				Bas	se Slab - Ba
SR8.VP.5170	Wall - Bay 1	10	15 Can 15 A	01 No. 45					
SR8.VP.5180	Wall - Bay 2	10	15-Sep-15 A	21-Nov-15					
SR8.VP.5190	Wall - Bay 3	10	15-Sep-15 A	03-Dec-15					
SR8.VP.5200		10	04-Dec-15	15-Dec-15					1
Roof Slab	Wall - Bay 4	10	16-Dec-15	29-Dec-15					
	Beef Clab. David			and the second of					
SR8.VP.5240	Roof Slab - Bay 1	10	04-Dec-15	15-Dec-15					1
SR8.VP.5250	Roof Slab - Bay 2	10	16-Dec-15	29-Dec-15					
Pump Sump E			numeron .	- 424					į
SR8.VP.5370	Wall Up to Portal Base Slab Bottom	10	21-Sep-15	03-Oct-15			Wall Up to Portal Base Slab Bottom		
SR8.VP.5380	Fill Up Void Up to Portal Base Slab Bottom	7	05-Oct-15	12-Oct-15			Fill Up Void Up to Po	rtal Base Slab Bottom	n
SR8.VP.5390	Wall Up to Portal Roof Bottom	10	14-Oct-15	26-Oct-15	-			Wall Up to Porta	al Roof Bott
SR8.VP.5400	Wall + Roof Slab	14	27-Oct-15	11-Nov-15					
SR8.VP.5440	Slab for Pump Room	21	27-Oct-15	19-Nov-15					
SR8.VP.5410	Access Chamber above Roof	14	12-Nov-15	27-Nov-15					
		Actual Work		Dece 2 of F					Date
-		Remaining Work		Page 3 of 5				20-	-Sep-15
中國通 CHINA STATE	L 察工程( 香港) 介 版 公司 CONSTRUCTION ENGINEERING (HONG KONG) LTD. ◆ ◆	Critical Remaining Work					I - Wanchai Bypass Tunne		



SR8.VP.5450		Duration			Sep		
	Slab for Elec. Room	21	12-Nov-15	05-Dec-15		Oct	: .
Backfill & Reinst	tatement Works Including Removal of Strutingss						
SR8.VP.5050	Layer 3&2: Removal of Waling & Struts	7	03-Nov-15	10-Nov-15			: 
SR8 Ch 317.500	to Ch 210.000 - U-Structure & Slab (Victoria Park)						
RC CCT & Backfi	II Ch317.5000 to Ch240.000						
Structure							
Base Slab							
SR8_1812	SR8 U-structure Base slab (UBA8)	24	08-Sep-15 A	05-Oct-15		SR8 U-structure Base slab (UBA8)	
SR8_1813	Remove SL3 - (UBA8)	14	06-Oct-15	22-Oct-15			
Wall						Remove SL3 - (UE	3A8)
SR8_1850B	SR8 U-structure Wall (UBA6-UBA7) - Stage 2	14	10-Apr-15 A	02-Oct-15			
SR8_1815A	Remove SL1 (UBA2-UBA5)					SR8 U-structure Wall (UBA6-UBA7) - Stage 2	1
SR8_1815B	SR8 U-structure Wall (UBA2-UBA5) - Stage 2	18	21-Sep-15	13-Oct-15		Remove SL1 (UBA2-UBA5)	1
SR8 2060	SR8 U-structure Wall (UBA8) - Stage 1	21	13-Oct-15	07-Nov-15			SR8 U
SR8_2100		7	23-Oct-15	30-Oct-15		SR8	8 U-structure Wa
	Remove SL2, 1 (UBA8)	7	31-Oct-15	07-Nov-15			Remo
SR8_2110	SR8 U-structure Wall (UBA8) - Stage 2	7	09-Nov-15	16-Nov-15			
SR8_1950	Waterproofing Works to Wall	14	19-Nov-15	05-Dec-15			
Utility Through							
SR8_2050	Utility Trough	48	16-Nov-15	14-Jan-16			-
ing Fung St - RW	/ & Subway Extension & Toe Wall at Hing Fat St						
et. Wall & TF Su	bway Extension (Portion V)						
Retaining Wall RW	/8C at Tsing Fung Street (Portion V)						
VP_1770	Install Steel Railing on Top of RW8C	14	20-May-15 A	10-Oct-15		Install Steel Railing on Top of RW8C	
VP_1390	Demolish Top Portion of Existing Wall Head and Kerb	18	05-Jun-15 A	30-Oct-15			nelieh Tee Destis
VP_1400	Road Formation - Subbase + Kerb + U-shape Channel	48	30-Oct-15	28-Dec-15		Den	nolish Top Portio
etaining Wall + 7	oe Wall at Hing Fat Street						1
	n at Tsing Fung Street (Portion VIII)						
West Side							1
VP_1375.70	Remove Soffit formwork for Roof Slab		47.0. 45.1				
East Side		32	17-Sep-15 A	02-Oct-15		Remove Soffit formwork for Roof Slab	
VP_1375.60	Divert Pedestrain to West Side						
		2	03-Oct-15	05-Oct-15		Divert Pedestrain to West Side	
VP_1375.60.10	Excavation and Demolition (East Part) of Subway	14	06-Oct-15	22-Oct-15		Excavation and De	molition (East P
VP_1375.60.20	TFS Subway extension - Blinding and Waterproofing	8	23-Oct-15	31-Oct-15		TF	FS Subway exten
VP_1375.60.30	TFS Subway extension - Base slab + Drainage	21	02-Nov-15	25-Nov-15			
VP_1375.60.40	TFS Subway extension - Walls	18	26-Nov-15	16-Dec-15			
VP_1375.60.50	TFS Subway extension - Roof Slab	21	17-Dec-15	13-Jan-16			
RC Works - Toe Wa	all (RW8E)						
VP_6152	Construct and divert Temporary Footpath	36	20-May-15 A	23-Sep-15 A		Construct and divert Temporary Footpath	
VP_6160	Sheet Piling and Excavation to Formation level	45	21-Sep-15	14-Nov-15		and tonyola ji oupan	
VP_6180	Blinding layer		07-Dec-15	20-Jan-16			1
orks in Victoria	a Park						
-Provisioning Wo							
P_1560	KD5 - Completion of Section 2 of Works (BG & Pavilion)						
_1000	reso - completion of Section 2 of Works (BG & Pavilion)	0		11-Dec-15			
		Actual Work		Page 4 of 5			Date
		Remaining Work					20-Sep-15
中國通 CHINA STATE							120-06p-10

	Slab for Elec. Ro	om
	Siab for Elec. Ro	om
Removal of Waling & Struts		
		1
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Wall (UBA2-UBA5) - Stage 2		1
4 1		
Stage 1		4 4
JBA8)		1
R8 U-structure Wall (UBA8)	- Stage 2	-
	Waterproofing W	orks to Wall
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Wall Head and Kerb		1
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ay		
ay ng and Waterproofing		
ay ng and Waterproofing	extension - Base slab	+ Drainage
ay ng and Waterproofing	extension - Base slab	+ Drainage
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tivity ID	Activity Name	Original Duration		Finish										
Devilling		Duration		-	Sep				00			2015		M
Pavilion						1			U			1	1	No
Materials Sub	mission			1								-		
VP_6660	Issue P.O. / Manufacturing / Fabrication	48	20-Apr-15 A	22-Sep-15 A	:	Issue P	D. / Manufact	ring / Fab	rication		1			
Construction	Works - BG Pavillion							anng / T ac	incation .				1	
VP_1380	PV- structural works, G/F to Roof	24	04-Sep-15 A	25-Sep-15			/- structural v		- Deef	1	-		-	
VP_1420	PV - ABWF	36	26-Sep-15	10-Nov-15			- subclurary	OFKS, G/F	to Root					
VP_1430	PV - E&M Works	36	06-Oct-15	17-Nov-15					:	1		4	:	PV - AB
VP_1460	PV - T&C	12	18-Nov-15	01-Dec-15					1	1		1		
VP_1470	PV - Statutory Inspections & Certification	24	18-Nov-15								****			
VP_1480	PV - Complete KD5 - Works in Section 2		10-1400-15	15-Dec-15					1	1				
Bowling Green		0		15-Dec-15										-
Construction												1. 1. 1.		
VP 1740	BG - Install Conduit and Lighting System											1		-
		36	18-Jun-15 A	22-Sep-15 A		BG - Inst	all Conduit an	d Lighting	System				1	
VP_1730	BG - Install Irrigation System	24	21-Sep-15 A	15-Oct-15						BG - Insta	Il Irrigation S	System	1	
VP_1745	Test & Commission - Lighting System	16	02-Oct-15	20-Oct-15						T	est & Comn	nission - Ligi	hting System	. 1
VP_1450	BG - Re-provisioning works - Hardscape & Furnitures (Green Turf/ Granite Tiles)	36	02-Oct-15	13-Nov-15				_	-					BG
VP_1455	Statutory Inspection and Certification	24	14-Nov-15	11-Dec-15									-	_
VP_1490	BG - Completion of KD5 - Section 2	0		11-Dec-15										1
Establishment	Works for Landscape Softworks								-			_		1
KD11 - Section	17A: Portion XIV & XV (Victoria Park Open Space)		-											
EW_1000	Establishment Works - for Landscape Softworks and transplanted trees in Portion XIV & XV	901	23-Feb-15 A	14-Dec-17				_						
KD12 - Section	17B: Portion VI & VII (Reprov. Bowling Green Area)			1					-		1	1		
EW_1010	Establishment Works - for Landscape Softworks and transplanted trees in Portion VI & VII	365	16-Dec-15	14-Dec-16						1 1 1				
Preservation an	nd Protection of Trees		and street.						-	1				
PPT_0000	Preservation and Protection of Existing Trees	1099	21 Mar 12 4	20 No. 40					-	1				
		1088	21-Mar-13 A	20-Nov-16			and the second second		and the second second					

.CPC.	中国建築工程(春港)有限公司	
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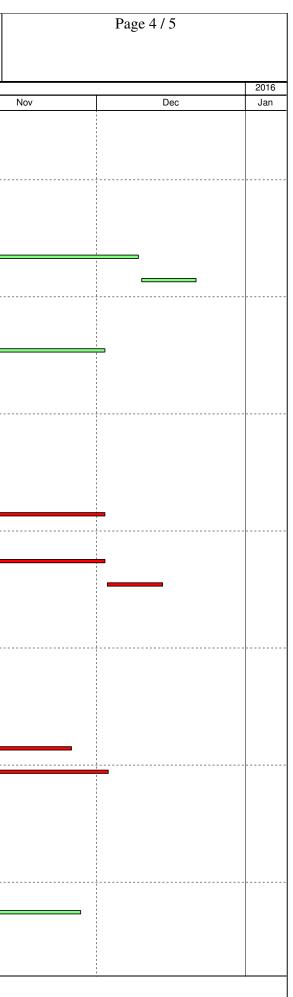
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2-Sep-15 A	<u>i</u> i	Issue PO /M	anufacturing / Fabrication				
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-Sep-15		PV- str	uctural works, G/F to Roc	of	1		
-Nov-15							
			1 1		1	PV - ABWF	
-Nov-15						PV - E&M Work	s
-Dec-15							
-Dec-15							PV - T&C
							PV - Statutory
Dec-15		1					PV - Complete
							• • • • Complete
Sep-15 A		BG - Install Co	nduit and Lighting System	m			
Oct-15				1 1			
			1 1	BG - Install Irrigation		1	
Oct-15				Test & Com	mission - Lighting System	m	
Nov-15						1 1	
				1	1 1	BG - Re-provisioning w	orks - Hardscape & Furnitures (Green Turf/ Gran
Dec-15	1						Statutory Inspection a
Dec-15							BG - Completion of KE
							▼ BG - Completion of KL
Dec-17				- in in			
F					1		
	1	1			1		
Dec-16			1				
	1			1			
				_			
)-Nov-16							
Nov-16							
ge 5 of 5					Date 20-Sep-15	Revisior Updated to 20th Sep	h Checked Approved
ge 5 of 5	No. HY/2010/0	8: Central -	Wanchai Bypa	ass Tunnel +(S	20-Sep-15		n Checked Approved
ge 5 of 5	No. HY/2010/0 Road 8 Sectio	8: Central -	Wanchai Bypa	ass Tunnel +(S	20-Sep-15		h Checked Approved
ge 5 of 5	No. HY/2010/0 Road 8 Sectio	8: Central - on) - 3 Mont	Wanchai Bypa	ass Tunnel +(S gamme	20-Sep-15		h Checked Approved

tivity ID	Activity Name		Start	N	Van Cha I -Wan C	i Develop hai Bypa	o. HK/2012/08 oment Phase II ss at Wan Cha		t	2015	Page 1 / 5					
	Activity Name		Start	FILIST	Remaining Duration	Activity % Complete	Sep		Oct	2015	Nov	,	Dec		Jan	
Total			01-Jan-15 A	28-Dec-15	80											
HK/2012/08 Re	evised Works Program	me Rev.5_Updated as of 20-Sep-15	01-Jan-15 A	28-Dec-15	80											
Dredging and F	Reclamation		21-Aug-15 A	15-Dec-15	71											
Marine Work C	Construction		21-Aug-15 A	15-Dec-15	71											
Zone A1			11-Nov-15	15-Dec-15	30											
Seawall Constr	ruction - Zone A1		11-Nov-15	15-Dec-15	30											
MAR10310	Zone A1 - seawall - Typ	e 3 - fill rock mound	11-Nov-15	18-Nov-15	8	0%						•				
MAR10312	Zone A1 - seawall - Typ	e 3 - lay toe block and leveling stone	19-Nov-15	26-Nov-15	8	0%										
MAR10320	Zone A1 - seawall - inst	all block seawall type 3	27-Nov-15	04-Dec-15	8	0%										
MAR10340	Zone A1 - seawall - plac	ce type A behind seawall Type 3	05-Dec-15	10-Dec-15	6	0%										
MAR10345	Zone A1 - seawall - lay	geotextile and filter behind seawall Type 3	11-Dec-15	15-Dec-15	4	0%										
Zone A2			21-Aug-15 A	06-Oct-15	12											
Seawall Constr	ruction - Zone A2		21-Sep-15	06-Oct-15	12											
MAR10815	Zone A2 - seawall - plac -1.5 mPD	ce type A behind seawall Type 4 and Type 13 up to	21-Sep-15	26-Sep-15	6	0%		-								
MAR10817	Zone A2 - seawall - lay 13 up to -1.5 mPD	geotextile and filter behind seawall Type 4 and Type	29-Sep-15	06-Oct-15	6	0%		_	<b>_</b>							
Filling - Zone A	42		21-Aug-15 A	21-Sep-15	1											
MAR20365	Zone A2(2) - Public Fill channel outlet)	-4.0 to +4.0mPD (behind Type 4 & 13 for temp	21-Aug-15 A	21-Sep-15	1	95%										
Zone C			21-Sep-15	28-Oct-15	30											
Dredging - Zon	ne C		21-Sep-15	28-Oct-15	30											
MAR11520	Zone C - Cut existing p	ipe pile (2 nos.)	21-Sep-15	28-Oct-15	30	0%	-									
Zone D			21-Sep-15	15-Dec-15	71								· · · · · · · · · · · · · · · · · · ·			
Seawall Constr	ruction - Zone D		21-Sep-15	19-Nov-15	49											
Seawall 10 & 1	11		21-Sep-15	22-Oct-15	25											
MAR20582	Zone D - fill rock mound	d for Seawall 10 & 11	21-Sep-15	22-Sep-15	2	0%	-									
MAR20584	Zone D - lay toe block a	and level stone for Seawall 10 & 11	23-Sep-15	03-Oct-15	8	0%	-									
MAR20605	Zone D - Install block s	eawall 10	05-Oct-15	20-Oct-15	14	0%									-	
MAR20610	Zone D - Install block s	eawall 11	06-Oct-15	22-Oct-15	14	0%				•						
Seawall 9			23-Oct-15	19-Nov-15	24											
MAR11858	Zone D - fill rock mound	d for Seawall 9	23-Oct-15	24-Oct-15	2	0%				-						
MAR11859	Zone D - lay toe block a	and level stone for Seawall 9	26-Oct-15	03-Nov-15	8	0%										
MAR12300	Zone D - Install block s	eawall 9	04-Nov-15	19-Nov-15	14	0%										
Filling - Zone D	D		19-Nov-15	15-Dec-15	23											
Filling at North	h		19-Nov-15	15-Dec-15	23											
Remaining		Project Star :22-Jan-13					<u> </u>	1		<u>_</u>			Programme Rev	ision 5	<u></u>	
	vel of Effort	Project End: 21-Jul-18	Months Rol	ling Progra	amme S	Septembe	er to November	r 2015		Date		Revision	Checked	Approv	/ed	
Remaining Actual Wo	-	Date Date: 20-Sep-15				-		-		20-Sep-1		٢				
	emaining Work			(Fo	r Non-Cl	RIII Zone)										

			١	Nan Cha	i Develop	o. HK/2012/ oment Phase ss at Wan C	e II				Page 2 / 5					
tivity ID	Activity Name	Start	Finish	Remaining	Activity %	55 al Wall C	mai wesi		2015			2016				
				Duration	Complete	Sep		Oct	Nov	/	Dec	Jan				
MAR12160		19-Nov-15	02-Dec-15	12	0%											
MAR12180		02-Dec-15	15-Dec-15	12	0%											
Works for Section	on Completion	01-Jan-15 A	28-Dec-15	80												
Construction		01-Jan-15 A	28-Dec-15	80												
Section II - MVB		08-Aug-15 A	24-Dec-15	79												
MVB Substruct	ure - ELS & Structural Works for Portion A	08-Aug-15 A	24-Dec-15	79												
MVB Substruct	ture - Structural Works for Portion A	08-Aug-15 A	24-Dec-15	79												
SII11120	Sec II - MVB A - Construct B3M slab, column and wall	08-Aug-15 A	27-Nov-15	55	24%											
SII11140	Sec II - MVB A - Remove Strut SL7 and SL6	18-Dec-15	24-Dec-15	5	0%											
MVB Substruct	ure - ELS & Structural Works for Portion B	09-Sep-15 A	21-Sep-15	1												
MVB Substruct	ture - ELS for Portion B	09-Sep-15 A	21-Sep-15	1												
SII11760	Sec II - MVB B: Excavation down to -25.45mPD	09-Sep-15 A	21-Sep-15	1	90%											
MVB Substruct	ure - Piling Works	21-Sep-15	26-Nov-15	55												
MVB C - Prebo	ored H Piles	21-Sep-15	26-Nov-15	55												
SII10400	Sec II - MVB C - construct prebored H-piles	21-Sep-15	03-Nov-15	35	0%											
SII10420	Sec II - MVB C - Loading Test for Prebored H-pile	04-Nov-15	26-Nov-15	20	0%											
Section II A - CW	B Tunnel & Slip Road Structures and Facilities	17-Jan-15 A	28-Dec-15	80												
CWB CRIII & A1	1	17-Jul-15 A	28-Dec-15	80												
CWB A1 - ELS	& Tunnel Structure	17-Jul-15 A	28-Dec-15	80												
CWB A1 - ELS	S Remaining	17-Jul-15 A	03-Nov-15	35												
SIIA11286	Sec IIA - CWB A1 : Shoring & Excavation (Remaining)	17-Jul-15 A	03-Nov-15	35	0%											
CWB A1 - Tu	nnel Structure Remaining	04-Nov-15	28-Dec-15	45												
SIIA13045	Sec II A - CWB A1: Pile head + trough + base & wall + OHVD unit (Bay 1)	04-Nov-15	28-Dec-15	45	0%											
SIIA13048	Sec IIA - CWB A1 : Pile head + trough + base & wall + OHVD (Bay 3)	04-Nov-15	28-Dec-15	45	0%					1		-				
CWB A1 - Oth	her Works	20-Sep-15	13-Oct-15	24												
SIIA15500	Zone A2(2) - Public Fill -4.0 to +4.0mPD (behind Type 4 & 13 for temp	20-Sep-15	13-Oct-15	24	0%											
	channel outlet)															
CWB A2(2)		20-Aug-15 A	23-Nov-15	51												
CWB A2 (2) - D		20-Aug-15 A	23-Nov-15	51												
SIIA13500	Sec II A - CWB A2 : backfill to +4.0mPD	20-Aug-15 A	22-Sep-15	2	90%											
SIIA15260	Sec II A - CWB A2 : Predrilling for Dwall & piles	11-Sep-15 A	09-Nov-15	39	2%											
SIIA15280	Sec II A - CWB A2 : Ground treatment	21-Sep-15	09-Nov-15	40	0%											
SIIA15300	Sec II A - CWB A2 : construct Guide Wall	30-Sep-15	17-Nov-15	40	0%					•						
SIIA15420	Sec II A - CWB A2 Loading Test for Prebored H-pile	30-Oct-15	23-Nov-15	20	0%											
CWB B (& A2(1)	))	30-Apr-15 A	11-Dec-15	67												
CWB B - Dwall	I & Piling	30-Apr-15 A	06-Nov-15	37												
SIIA11540	Sec II A - CWB B (&A2(1)) : Construct pre-bored H-pile	30-Apr-15 A	22-Sep-15	1	98%	1 1 1										
SIIA11560	Sec II A - CWB B: Concrete Plug (MTR TWL)	15-Jun-15 A	06-Nov-15	37	40.32%											

		CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central -Wan Chai Bypass at Wan Chai West								Page 3 / 5			
ity ID	Activity Name	Start	Finish	Remaining Duration	Activity % Complete	Sep		(	Oct	2015	Nov	Dec	2
SIIA11565	Sec II A - CWB B: Sheetpile Bulkhead Wall for "Delink"	29-Sep-15	26-Oct-15	21	0%			,					
CWB B - Pump	ing Test Preparation	13-Jun-15 A	11-Dec-15	67									
SIIA11580	Sec II A - CWB B: Dwall sonic test / interface core	13-Jun-15 A	30-Oct-15	31	48.33%					-			
SIIA11600	Sec II A - CWB B: Dwall precaution grout / fissure grout / grout curtain	13-Jun-15 A	30-Oct-15	31	48.33%	1 1 1				-			
SIIA11620	Sec II A - CWB B: Install dewatering/ recharging/ observation well	14-Jul-15 A	04-Nov-15	35	12.5%								
SIIA11640	Sec II A - CWB B: Pumping Test	06-Nov-15	14-Nov-15	7	0%								
SIIA11660	Sec II A - CWB B: Demolish Guide Wall	06-Nov-15	11-Dec-15	30	0%					-			
CWB C (W)		16-Jun-15 A	02-Dec-15	60									
CWB C(W) - Dw	wall Construction	16-Jun-15 A	24-Nov-15	53									
SIIA11960	Sec II A - CWB CW: Concrete Plug (MTR TWL)	16-Jun-15 A	24-Nov-15	53	14.52%								
SIIA11980	Sec II A - CWB CW: D-wall contact grout / fissure grout	21-Sep-15*	09-Nov-15	40	0%								
SIIA12000	Sec II A - CWB CW: Dwall sonic test / interface core	21-Sep-15	09-Nov-15	40	0%						-		
CWB C(W) - Pu	Imping Test Preparation/ Pumping Test	21-Sep-15	02-Dec-15	60									
SIIA12020	Sec II A - CWB CW: Install dewatering/ recharging/ observation wells	21-Sep-15	09-Nov-15	40	0%						-		
SIIA12040	Sec II A - CWB CW: Pumping Test	25-Nov-15	02-Dec-15	8	0%						_		
CWB C (E)		30-Mar-15 A	28-Oct-15	30									
CWB C(E) & En	nabling Work - Dwall Construction	30-Mar-15 A	28-Oct-15	30									
CWB C(E) - Dv	wall Construction	30-Mar-15 A	08-Oct-15	14									
SIIA12980	Sec II A - CWB CE: ground pre-treatment	30-Mar-15 A	08-Oct-15	14	79%	1 1 1 1							
SCL Enabling	Work - Dwall Construction	21-Sep-15	28-Oct-15	30									
SIIA13085	Sec II A - CWB CE: Cut existing pipe piles (2 nos.)	21-Sep-15	28-Oct-15	30	0%					•••••			
CWB D - Slip Ro		17-Jan-15 A	25-Nov-15	54									
CWB D - Slip Road 1 - Dwall Construction & Piling		17-Jan-15 A	14-Nov-15	45									
SIIA12260 Sec II A - CWB SR1: ground pre-treatment		17-Jan-15 A	05-Oct-15	11	90.83%								
SIIA12305	Sec II A - CWB SR1: construct Permanent DWall (1.2m thk)	07-Apr-15 A	15-Oct-15	20	79%				•				
SIIA12310	Sec II A - CWB SR1: construct pre-bored H-pile	20-Aug-15 A	11-Nov-15	41	2%								
SIIA12340	Sec II A - CWB SR1: Concrete Plug (MTR TWL)	07-Oct-15	14-Nov-15	32	0%								
	Road 1 - Pumping Test Preparation/ Pumping Test	22-Sep-15	25-Nov-15	52									
SIIA12360	Sec II A - CWB SR1: Grout curtain / contact grout for Dwall	22-Sep-15	09-Nov-15	38	0%						-		
SIIA12380	Sec II A - CWB SR1: Dwall sonic test / interface core	22-Sep-15	09-Nov-15	38	0%						-		
SIIA12400	Sec II A - CWB SR1: Install dewatering/ recharging/ observation wells	30-Sep-15	16-Nov-15	38	0%								
SIIA12420	Sec II A - CWB SR1: Pumping Test	16-Nov-15	25-Nov-15	8	0%								
Section VI A - Box Culvert La, L1 & FRP-L Construction		21-Sep-15	30-Nov-15	58	<b>.</b>								
Sec VI C - Box Culvert La bay 4 (North)		21-Sep-15	30-Nov-15	58									
CUL11652	Sec VI C - Culvert L - bay 4 (north half) - excavate to formation level	21-Sep-15 21-Sep-15	13-Oct-15	18	0%								
CUL11655	Sec VI C - Culvert L - bay 4 (north half) - excavate to formation level Sec VI C - Culvert L - bay 4 (north half) - place granular fill and lay	14-Oct-15	26-Oct-15	10	0%								
	aeotextile filter							-				_	
CUL11660	Sec VI C - Culvert L - bay 4 - backfill	27-Oct-15	30-Nov-15	30	0%				C				

		CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central -Wan Chai Bypass at Wan Chai West								
ID	Activity Name	Start	Finish	Remaining Duration	Activity % Complete	Sep		Oct	2015	
Box Culvert L	1 & FRP-L Construction (Bay 5 - Bay 7)	21-Sep-15	21-Dec-15	76		;				
Box Culvert	L1 & FRP-L - Bay 5 to 7 Structure	21-Sep-15	23-Oct-15	26						
Box Culver	t L1 & FRP-L - Precast Unit Installation	21-Sep-15	23-Oct-15	26						
CUL10874	4 Sec VI C - Culvert L - bay 5-7 - Demolition of Temp Platform & Cofferdam	21-Sep-15	06-Oct-15	12	0%	•	·····			
CUL1087	<ul> <li>ready for towing precast culvert units</li> <li>Sec VI C - Culvert L - bay 5-7 ( &amp; Bay 4b) - install precast culvert units &amp;</li> </ul>	07-Oct-15	23-Oct-15	14	0%					
Box Culvert	Touch Up L1 & FRP-L - Bay 5 & 6 Backfill & Others	24-Oct-15	21-Dec-15	50						
CUL10878	Sec VI C - Culvert L - bay 5, 6 - backfill to +4.0mPD	24-Oct-15	09-Dec-15	40	0%					
CUL10879	Sec VI C - Culvert L - bay 5, 6 - trim to formation level and handover Area 6	10-Dec-15	21-Dec-15	10	0%					
Box Culvert L	_1 & FRP-L - Bay 9 to 11	21-Sep-15	02-Dec-15	60						
Box Culvert	L1 & FRP-L - Bay 9-11 Others	21-Sep-15	02-Dec-15	60						
CUL12020	Culvert L - bay 9-11 - backfill from top slab to final formation level	21-Sep-15	02-Dec-15	60	0%					
Box Culvert L	_1 & FRP-L - Bay 12 to 13	03-Jun-15 A	14-Dec-15	70						
Box Culvert	L1 & FRP-L - Bay 12 to 13 Piling	21-Sep-15	28-Oct-15	30						
CUL12356	Culvert L - bay 13 - construct pre-bored H-pile (PC10 & PC11)	21-Sep-15*	28-Oct-15	30	0%					
	L1 & FRP-L - Bay 12 to 13 Temp Work & ELS	03-Jun-15 A	02-Dec-15	60						
 CUL12385		03-Jun-15 A	07-Oct-15	13	0%			-		
CUL12405	for Diversion	07-Oct-15	10-Oct-15	4	0%	-				
CUL12480	Bay 4 to Bay 11)	29-Oct-15	02-Dec-15	30	0%				_	
	PC10 & PC11 L1 & FRP-L - Bay 12 to 13 Structure	21-Sep-15	14-Dec-15	70						
CUL12545		21-Sep-15*	02-Dec-15	60	0%	-				
CUL12548		03-Dec-15	14-Dec-15	10	0%					
	- Area 3, 6, 8A & 8C	01-Jan-15 A	19-Dec-15	75	070					
	C - Seawall Modification	30-May-15 A	03-Dec-15	61						
	n of Seawall	30-May-15 A	03-Dec-15	61		-				
	on of Seawall - Zone 1 & 2	30-May-15 A	03-Dec-15	61						
PRS1004		30-May-15 A	23-Sep-15	3	50%		-			
PRS1004		20-Aug-15 A	06-Oct-15	12	50%					
PRS100		07-Oct-15	25-Nov-15	42	0%					
PRS100	-	27-Oct-15	03-Dec-15	32	0%					
	on of Seawall - Zone 4	27-001-15 23-Sep-15	27-Oct-15	26	0 /0					
PRS101		23-Sep-15 23-Sep-15	05-Oct-15	8	0%					
PRS1018		23-Sep-15 05-Oct-15	27-Oct-15	18	0%					
	Culvert bay 5-6		27-Oct-15 27-Nov-15		U 70					
		18-Apr-15 A		56	71 740/					
SVIC1000		18-Apr-15 A	23-Oct-15	26	71.74%					
SVIC1002		24-Oct-15	27-Nov-15	30	0%					
	Culvert bay 4 and Roadwork	01-Jan-15 A	19-Dec-15	75						
SVIC1022	0 Sec VI C - [Summary] Construct Box Culvert Bay 4 in Area 3	01-Jan-15 A	26-Oct-15	28	60%				-	



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SVIC10240         See VI C - reinstate and compact sub-base above Culvent L B y4 in Area         01-Dec-16         08-Dec-15         7         0%	Activity ID	Activity Name	Start		Remaining					Dec	
SVC10200       Sec VI C - reinstate road keth in Anea 3       01-Bec-15       6       0%         SVC10200       Sec VI C - reinstate flexible payament in Anea 3       06-Bec-15       19-Bec-15       0%         SVC10200       Sec VI C - reinstate fordpith in Anea 3       19-Bec-15       19-Bec-15       0%         SVC10200       Sec VI C - reinstate fordpith in Anea 3       19-Bec-15       10       0%         SVC10200       Sec VI C - reinstate fordpith in Anea 3       19-Bec-15       73	SVIC10240	Sec VI C - reinstate and compact sub-base above Culvert L Bay 4 in Are	a 01-Dec-15	08-Dec-15	7		Sep	Oct	NOV		Jan
SVIC 10300         Sec VI C - reinstate fortigeth in Area 3         19-Dec-15         1         0%           SVIC 10320         Sec VI C - reinstate traffic sign and road making in Area 3         19-Dec-15         1         0%           Section VID - Area 88 4 10         27-Sep-15         24-Dec-15         73	SVIC10260	3 Sec VI C - reinstate road kerb in Area 3	01-Dec-15	07-Dec-15	6	0%	1 				
SVIC 0020         Sec VI C - reinstate traffic sign and road marking in Area 3         19-Dec-15         1         0%           Section VI D - Area IE + 0         27-Sep.15         24-Dec.15         73	SVIC10280	Sec VI C - reinstate flexible pavement in Area 3	08-Dec-15	14-Dec-15	6	0%					
Section VI - Area B & 10         27. Sep.15         24. Dec.15         73           WDI Box 1 Construction         227. Sep.15         24. Dec.15         73           VDI Box 1 Submission and Approval / Material Precurament         27. Sep.15         25. Nov.15         60         0%           PCUB0410         Sec VI D - VDI II Box 1. Prepara Subcontract for Box 1 structure         27. Sep.15         25. Nov.15         60         0%           WDI Box 1 Existing Pie Head and Dry Dock         24. Occ.15         24. Occ.15         45.         60         0%           WDI Box 1 Existing Pie Head and Dry Dock         24. Occ.15         24. Occ.15         45.         60         0%           WDI C3300         Sec VI D - Idem dry dock / waterprofing for Box 1 structure         24. Occ.15         45.         60         0%           VDI Box 1 Existing Pie Head and Dry Dock         24. Occ.15         24. Occ.15         10. Dec.15         45.         0%           VDI Box 1 Existing Pie Head and Pie A3         0.0-Dec.15         24. Dec.15         10.         0%         0%           Section VII - Femeral Exerval I a Chilli         21. Sep.15         30-Nov.15         56         0%         0%           SvII10220         Sec VII - remove Interim landing steps - protect open cut stopen         21. Sep.15         0%	SVIC10300	Sec VI C - reinstate footpath in Area 3	15-Dec-15	19-Dec-15	5	0%				_	
Will Box 1 Construction         27-Sep-15         24-Dec-15         70           WDI Box 1 Submission and Approval / Material Procurement         27-Sep-15         25-Nov-15         60         0%           PCU60410         Sec VI D - WD II Box 1 - Prepare Subcontract for Box 1 structure         27-Sep-15         25-Nov-15         60         0%           WDI Box 1 Existing Pile Head and Dry Dook         24-Occ1-15         24-Dec-15         45         0%           WDI Box 1 Existing Pile Head Teatment         00-Dec-15         15-Dec-15         16         0%           PR510260         Sec VI C - Mobilisation         09-Dec-15         10-Dec-15         12         0%           Section VII - Remainder Works         21-Sep-15         30-Nov-15         58	SVIC10320	Sec VI C - reinstate traffic sign and road marking in Area 3	19-Dec-15	19-Dec-15	1	0%				٥	
W0I Box 1 Sub	Section VI D - A	Area 8B & 10	27-Sep-15	24-Dec-15	73						
PCUB0410         Sec VI D - WD II Box 1 - Prepare Subcontract for Box 1 structure         27-Sep-15         25-Nov-15         60         0%           WDI Box 1 Existing Pile Head and Dry Dock         24-Oct-15         24-Oct-15         24-Doc-15         60         0%           WD-C3030         Sec VI D - form dry dock / waterproofing for Box 1 structure         24-Oct-15         15-Dec-15         45         0%           WD-C3030         Sec VI C - Mobilisation         03-Dec-15         24-Dec-15         18	WDII Box 1 Co	onstruction	27-Sep-15	24-Dec-15	73						
WDI Box 1 Existing Pile Head and Dry Dock         24-Oct.15         24-Oct.15         15-Dec.15         45         0%           WD-C3030         Sec VI D - form dry dock / waterproofing for Box 1 structure         24-Oct.15         15-Dec.15         45         0%           WDI Box I Existing Pile Head Treatment         03-Dec.15         24-Dec.15         18	WDII Box 1 Si			25-Nov-15	60						
WDI Box 1 Existing Pile Head and Dry Dock         24-Oc1-15         24-Oc1-15         15-Dec-15         45         0%           WD-C3030         Sec VI D - form dry dock / waterproofing for Box 1 structure         24-Oc1-15         15-Dec-15         45         0%           WDI Box I Existing Pile Head Treatment         03-Dec-15         24-Dec-15         18	PCU60410	Sec VI D - WD II Box 1 - Prepare Subcontract for Box 1 structure	27-Sep-15	25-Nov-15	60	0%					
WOIl Box I Existing Pile Head Treatment         03-Dec.15         24-Dec.15         18         Control Number Notation         Contro	WDII Box 1 Ex		24-Oct-15	24-Dec-15	53						
PRS 10255Sec VIC - Mobilisation03-Dec-1510-Dec-1560%PRS 10260Sec VIC - Pile Head at Pile A310-Dec-1524-Dec-15120%Section VI - Remainer Works21-Sep-1530-Nov-1558Temolition of Interim Landing Steps and Construct Permanent Seawall at CRIII21-Sep-1530-Nov-1558Svili10220Sec VII - remove interim landing steps - protect open cut slope21-Sep-1522-Sep-1520%Svili10240Sec VII - remove interim landing steps - remove old seawall wall blocks23-Sep-1530-Sep-1560%Svili10260Sec VII - seawall - final hydrographic survey09-Oct-1516-Oct-1570%Svili10280Sec VII - seawall - final hydrographic survey09-Oct-1516-Oct-1570%Svili10300Sec VII - seawall - final mydrographic survey09-Oct-1513-004	WD-C3030	Sec VI D - form dry dock / waterproofing for Box 1 structure	24-Oct-15	15-Dec-15	45	0%		_			
PRS 10260       Sec VIC - Pile Head at Pile A3       10-Dec-15       24-Dec-15       12       0%         Section VII - Remarker Works       21-Sep-15       30-Nov-15       58         Demolition of Interm Landing Steps and Construct Permanent Seawall at CRIII       21-Sep-15       30-Nov-15       58         SVII10220       Sec VII - remove interim landing steps - protect open cut slope       21-Sep-15       22-Sep-15       2       0%         SVII10240       Sec VII - remove interim landing steps - protect open cut slope       21-Sep-15       22-Sep-15       2       0%         SVII10240       Sec VII - remove interim landing steps - protect open cut slope       21-Sep-15       26       0%         SVII10260       Sec VII - seawall - final hydrographic survey       09-Oct-15       08-Oct-15       6       0%         SVII10280       Sec VII - seawall - final hydrographic survey       09-Oct-15       16-Oct-15       7       0%         SVII10300       Sec VII - seawall - [summary] fill rubble mound       17-Oct-15       23-Nov-15       31       0%       Sec VII - seawall - [summary] fill rubble mound       17-Oct-15       31       0%	WDII Box I E	Existing Pile Head Treatment	03-Dec-15	24-Dec-15	18						
PRS 10260       Sec VIC - Pile Head at Pile A3       10-Dec-15       24-Dec-15       12       0%         Section VII - Remainer Works       21-Sep-15       30-Nov-15       58         Demolition of Interim Landing Steps and Construct Permanent Seawall at CRIII       21-Sep-15       30-Nov-15       58         SVII10220       Sec VII - remove interim landing steps - protect open cut slope       21-Sep-15       22-Sep-15       2       0%         SVII10240       Sec VII - remove interim landing steps - protect open cut slope       21-Sep-15       22-Sep-15       2       0%         SVII10240       Sec VII - remove interim landing steps - protect open cut slope       21-Sep-15       26       0%         SVII10260       Sec VII - seawall - final hydrographic survey       09-Oct-15       08-Oct-15       6       0%         SVII10280       Sec VII - seawall - final hydrographic survey       09-Oct-15       16-Oct-15       7       0%         SVII10300       Sec VII - seawall - [summary] fill rubble mound       17-Oct-15       23-Nov-15       31       0%       Sec VII - seawall - [summary] fill rubble mound       17-Oct-15       31       0%	PRS10255	5 Sec VIC - Mobilisation	03-Dec-15	10-Dec-15	6	0%					
Demolition of Interim Landing Steps and Construct Permanent Seawall at CRIII       21-Sep-15       30-Nov-15       58         SVII10220       Sec VII - remove interim landing steps - protect open cut slope       21-Sep-15       22-Sep-15       2       0%         SVII10240       Sec VII - remove interim landing steps - remove old seawall wall blocks       23-Sep-15       30-Sep-15       6       0%         SVII10260       Sec VII - seawall - remove old rubble mound and dredging       02-Oct-15       08-Oct-15       6       0%         SVII10280       Sec VII - seawall - final hydrographic survey       09-Oct-15       16-Oct-15       7       0%         SVII10300       Sec VII - seawall - [summary] fiil rubble mound       17-Oct-15       23-Nov-15       31       0%	PRS10260	0 Sec VIC - Pile Head at Pile A3	10-Dec-15	24-Dec-15	12	0%					-
Demolition of Interim Landing Steps and Construct Permanent Seawall at CRIII       21-Sep-15       30-Nov-15       58         SVII 10220       Sec VII - remove interim landing steps - protect open cut slope       21-Sep-15       22-Sep-15       2       0%         SVII 10240       Sec VII - remove interim landing steps - remove old seawall wall blocks       23-Sep-15       30-Sep-15       6       0%         SVII 10260       Sec VII - seawall - remove old rubble mound and dredging       02-Oct-15       08-Oct-15       6       0%         SVII 10280       Sec VII - seawall - final hydrographic survey       09-Oct-15       16-Oct-15       7       0%         SVII 10300       Sec VII - seawall - [summary] fiil rubble mound       17-Oct-15       23-Nov-15       31       0%	Section VII - Re	emainder Works	21-Sep-15	30-Nov-15	58						
SVII10220       Sec VII - remove interim landing steps - protect open cut slope       21-Sep-15       22       0%         SVII10240       Sec VII - remove interim landing steps - remove old seawall wall blocks       23-Sep-15       30-Sep-15       6       0%         SVII10260       Sec VII - seawall - remove old rubble mound and dredging       02-Oct-15       08-Oct-15       6       0%         SVII10280       Sec VII - seawall - final hydrographic survey       09-Oct-15       16-Oct-15       7       0%         SVII10300       Sec VII - seawall - [summary] fill rubble mound       17-Oct-15       23-Nov-15       31       0%	Demolition of	Interim Landing Steps and Construct Permanent Seawall at CRIII									
SVII 10260       Sec VII - seawall - remove old rubble mound and dredging       02-Oct-15       08-Oct-15       6       0%         SVII 10280       Sec VII - seawall - final hydrographic survey       09-Oct-15       16-Oct-15       7       0%         SVII 10300       Sec VII - seawall - [summary] fill rubble mound       17-Oct-15       23-Nov-15       31       0%	SVII10220	Sec VII - remove interim landing steps - protect open cut slope	21-Sep-15	22-Sep-15	2	0%					
SVII 10280     Sec VII - seawall - final hydrographic survey     09-Oct-15     16-Oct-15     7     0%       SVII 10300     Sec VII - seawall - [summary] fill rubble mound     17-Oct-15     23-Nov-15     31     0%	SVII10240	Sec VII - remove interim landing steps - remove old seawall wall blocks	23-Sep-15	30-Sep-15	6	0%		-			
SVII10300     Sec VII - seawall - [summary] fill rubble mound     17-Oct-15     23-Nov-15     31     0%	SVII10260	Sec VII - seawall - remove old rubble mound and dredging	02-Oct-15	08-Oct-15	6	0%					
	SVII10280	Sec VII - seawall - final hydrographic survey	09-Oct-15	16-Oct-15	7	0%					
SVII 10320         Sec VII - seawall - [summary] place caisson seawall type 1B(4), 2D and 1         09-Nov-15         19         0%	SVII10300	Sec VII - seawall - [summary] fill rubble mound	17-Oct-15	23-Nov-15	31	0%				-	
	SVII10320	Sec VII - seawall - [summary] place caisson seawall type 1B(4), 2D and	09-Nov-15	30-Nov-15	19	0%					