

Contract No. HK/2015/01 Wanchai Development Phase II and Central-Wanchai Bypass Sampling, Field Measurement and testing Works (Stage 3) Monthly EM&A Report (August 2018)

CONTRACT NO: HK/2015/01

WANCHAI DEVELOPMENT PHASE II AND CENTRAL WANCHAI BYPASS SAMPLING, FIELD MEASUREMENT AND TESTING WORKS (STAGE 3)

ENVIRONMENTAL PERMIT NO. EP-356/2009, FURTHER EVIRONMENTAL PERMIT NOS. FEP-03/356/2009, FEP-04/356/2009, FEP-06/356/2009, FEP-07/356/2009 AND FEP-08/356/2009

MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT

AUGUST 2018 -

CLIENTS:

Civil Engineering and Development Department

and

Highways Department

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Raymond Dai Environmental Team Leader

DATE:

13 September 2018



Ref.: AACWBIECEM00_0_10711L.18

13 September 2018

By Post and Fax (3912 3010)

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

Attention: Mr. Peter Poon

Dear Mr. Poon,

Re: Contract No. HK/2015/01 Wan Chai Development Phase II - Central-Wan Chai Bypass Sampling, Field Measurement and Testing Works (Stage 3)

Monthly Environmental Monitoring and Audit Report (August 2018) for EP-356/2009, FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-06/356/2009, FEP-07/356/2009 and FEP-08/356/2009

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for August 2018 received by email on 13 September 2018 for our review and comment.

Please be informed that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 3.4 in the captioned Environmental Permits.

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

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EXECUTIVE SUMMARY

- This is the Environmental Monitoring and Audit (EM&A) Monthly Report August 2018 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, FEP-07/356/2009 and FEP-08/356/2009. This report presents the environmental monitoring findings and information recorded during the period of 27 July 2018 to 26 August 2018. The cut-off date of reporting is at 26th of each reporting month.
- ii. In the reporting month, the principal work activities of individual contracts conducted are as follow:

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

• Removal of TWCR4

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

• Nil

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

• Nil

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

Seawall reinstatement

Noise Monitoring

- With respect to the shift in major construction site portions at Wan Chai North, the noise monitoring station M1a – Harbour Sports Centre was finely adjusted from East of Harbour Road Sports Centre to West of Harbour Road Sports Centre on 21 June 2016.
- With respect to the demolition of Ex-Harbour Road Sports Centre, the respective noise monitoring station M1a Harbour Road Sports Centre were finely adjusted on 16 and 25 May 2017 and thereafter to the Footbridge for Harbour Road Sports for noise monitoring.
- v. No action or limit level exceedance was recorded in the reporting period.
- vi. Noise monitoring during daytime and restricted hour were conducted at the stations M1a, M2b,M3a, M4b, M5b and M6 on a weekly basis in the reporting month.



Air Quality Monitoring

- vii. No action or limit level exceedance was recorded in the reporting period.
- viii. With respect to the proposed demolition of the Oil Street Site Office, the respective air quality monitoring station CMA1b – Oil Street Site Office was finely adjusted from the Oil Street Site Office to Harbour Grand Hotel Boundary Wall from 05 June 2017 onwards.
- ix. With respect to the proposed demolition of eastern podium of Oil Street Site Office, the respective air quality monitoring station CMA1b – Oil Street Site Office was finely adjusted from East podium of the Oil Street Site Office to the West podium of the Oil Street Site Office on 21 December 2016.
- x. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted at CMA1b – Oil Street Site Office; CMA2a – Causeway Bay Community Center; CMA3a – CWB
 PRE Site Office Area; CMA4a – Society for the Prevention of Cruelty to Animals; CMA5b – Pedestrian Plaza; CMA6a – WDII PRE Site Office in the reporting month.

Water Quality Monitoring

- xi. Action and Limit level of water quality monitoring was transited from dry season to wet season from 01 April 2018.
- xii. Water quality monitoring station C7 and Enhance DO monitoring station C6 shall be associated with Contract HY/2010/08, upon confirmation of marine construction works completion under Contract HY/2009/15 at CBTS area and Ex-PCWA area since 19 June 2017.
- xiii. Referring to CWB RSS confirmation on the completion of marine construction activities within the Ex-PCWA area and the completion of the post construction water quality monitoring, the respective Enhance DO Monitoring within Ex-PCWA for monitoring station Ex-PCWA SE and Ex-PCWA SW was temporarily suspended since 07 March 2017 ebb tide onwards.
- xiv. With respect to the reinstatement of the silt screen system for Cooling Water Intakes P7, P8, P9 and WSD Water Intake RW21, the respective water quality monitoring was reverted to the previous monitoring location for Water Quality Monitoring Station RW21-P789 from water quality stations RW21-P789 East (RW21-P789E) and RW21-P789 West (RW21-P789W) from 25 January 2017 onwards.
- with respect to the removal of silt screen at WQM station RW21-P789 on 26 November 2016, the respective water quality monitoring at RW21-P789 was adjusted to RW21-P789E and RW21-P789W since 28 November 2016 ebb-tide.
- xvi. With respect to the temporarily suspension of marine construction works at WCR3 Area by Contract HK/2009/02, the installed silt screen for intake group (P7, P8, P9 and WSD21) was removed on 26 November 2016.
- xvii. As advised by the Contractor of HK/2009/01, all silt screen remains removal works at P1, P3, P4, P5 and C1 water quality monitoring stations were completed on 8 May 2016.



- xviii. With respect to the marine works undertaken at WCR3 by Contract HK/2009/02, the respective water quality monitoring station C1 associated with Contract HK/2009/01 was updated as in association with Contract HK/2009/01 and Contract HK/2009/02.
- xix. With respect to the marine works undertaken at CBTS by Contract HY/2010/08, the respective water quality monitoring station C7 associated with Contract HY/2009/15 was updated as in association with Contract HY/2009/15 and Contract HY/2010/08.
- xx. With respect to the marine works undertaken at HKCEC2 by Contract HK/2012/08, the respective water quality monitoring station WSD19, P1, P3, P4, and P5 were associated with Contract HK/2012/08.
- xxi. As confirmed by WDII RSS, the marine construction works under Contract HK/2009/01 have been completed since 24 July 2017, the monitoring association with Contract HK/2009/01 and relevant reporting has been ceased in the reporting month.
- xxii. As confirmed by CWB RSS, the marine construction works under Contract HY/2009/15 and relevant reporting have been completed by 19 June 2017, the monitoring association with Contract HY/2009/15 and relevant reporting has been ceased in the reporting month.
- xxiii. With respect to the completion of the removal of the temporary reclamation at TS3 area confirmed by the CWB RSS and the completion of the 4-weeks post construction water quality monitoring at the associated Enhanced DO monitoring stations, the respective Enhance DO monitoring at Monitoring Station C6 and C7 were temporarily suspended from 5 March 2017 ebb tide onwards.

	Water quality		Mid-flood				Mid-ebb						
Contract no.	monitoring	D	0	Turb	idity	S	S	D	0	Turb	oidity	S	S
	Station	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
HK/2009/02	C1	0	0	0	0	0	0	0	0	0	0	0	0
	WSD19	0	0	0	1	0	1	0	0	0	1	0	0
	P1	0	0	0	0	0	0	0	0	0	0	0	0
HK/2012/08	P3	0	0	0	0	0	0	0	0	0	0	0	0
	P4	0	0	1	0	0	0	0	0	0	0	0	0
	P5	0	0	0	0	0	0	0	0	0	0	0	0
HK/2009/02	RW21-P789	0	0	0	0	0	0	0	0	0	0	0	0
HY/2010/08	C7	0	0	0	0	0	0	0	0	0	0	0	0
То	tal	0	0	1	1	0	1	0	0	0	1	0	0

 Table I
 Summary of Water Quality Monitoring Exceedances in Reporting Month



Remarks:

- 1. The cessation of seawater intake operation for C6 was confirmed on 17 May 2011 and the water quality monitoring at C6 was then terminated since 17 May 2011.
- 4-week post construction water quality monitoring at WSD9, WSD10, WSD15 and WSD17 were completed on 6 Feb 2012 and the water quality monitoring at WSD 10 and WSD15 were temporary suspended since 8 Feb 2012, and WSD9 and WSD17 was implemented with respect to HK/2009/02 from 8 Feb 2012 onwards.
- 3. C8 and C9 were implemented with respect to HY/2009/19 from 28 Jan 2012.
- 4. C8 & C9 were temporary suspended since 4 March 2013.
- 5. WSD7 and WSD20 water quality monitoring were temporarily suspended from 27 Apr 2012.
- 6. C2, C3 C4e and C4w water quality monitoring station was temporarily suspended since 22 Apr 2013
- 7. P1, P3, P4 and P5 were commenced since 24 Apr 2013
- 8. C5e and C5w water quality monitoring station was temporarily suspended since 29 Jul 2013.
- 9. WSD21 water quality monitoring station was temporarily suspended since 12 Mar 2014
- 10. WSD9 and WSD17 water quality monitoring station was temporarily suspended since 8 Sep 2014 flood tide.
- 11. The water quality monitoring station C1 shall be associated with Contract No. HK/2009/02 upon commencement of marine works under DP3 at WCR3 area.
- 12. The water quality monitoring station RW21-P789 was adjusted to RW21-P789E and RW21-P789W since 28 November 2016 ebb-tide.
- The water quality monitoring was reverted to previous monitoring station RW21-P789 from PW21-P789E and RW21-P789W from 25 January 2017 onwards.
- xxiv. Due to the hoisting of Amber Rainstorm Warning Signal, the water quality monitoring event scheduled on 11 August 2018 during ebb tide and 17 August 2018 during flood tide were cancelled.
- xxv. Two limit level exceedance of turbidity, one action level exceedance of turbidity and one limit level exceedance of suspended solids were recorded during the reporting period. After the investigation, the exceedances recorded were considered as non-project related. The details of the recorded exceedances can be referred to Section 6.4.

Complaints, Notifications of Summons and Successful Prosecutions

xxvi. No environmental complaint was received in the reporting period.

Site Inspections and Audit

xxvii. The Environmental Team (ET) conducted weekly site inspections for Contract nos. HK/2009/02, HY/2009/19, HK/2012/08 and HY/2010/08 under EP no. EP-356/2009 in the reporting month. Major observations and recommendations made during the audit sessions were rectified by the Contractors. No non-conformance was identified during the site inspections.



Future Key Issues

xxviii. In coming reporting month, the principal work activities of individual contracts are anticipated as follows:

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

• Removal of TWCR4

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

• Nil

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

• Nil

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

• Seawall reinstatement



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, FEP-07/356/2009 and FEP-08/356/2009 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 10.3 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 for Environmental Permit no. EP-356/2009, Further Environmental Permit no. FEP-02/356/2009, FEP-03/356/2009, FEP-04/356/2009, FEP-06/356/2009, FEP-07/356/2009 and FEP-08/356/2009 during the period of 27 July 2018 to 26 August 2018. The cut-off date of reporting is at 26th of each reporting month.



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 Status of Regulatory Compliance summarizes the status of valid Environmental Permits / Licenses during the reporting period.
- Section 4 *Monitoring Requirements* summarizes all monitoring parameters, monitoring methodology and equipment, monitoring locations, monitoring frequency, criteria and respective event and action plan and monitoring programmes.
- **Section 5** *Monitoring Results* summarizes the monitoring results obtained in the reporting period.
- Section 6 Compliance Audit summarizes the auditing of monitoring results, all exceedances environmental parameters.
- 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 Environmental Site Audit summarizes the findings of weekly site inspections undertaken within the reporting period, with a review of any relevant follow-up actions within the reporting period.
- Section 9 Complaints, Notification of summons and Prosecution summarizes the cumulative statistics on complaints, notification of summons and prosecution
- Section 10 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.

Item	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, 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.
- 2.3.2. The details of individual contracts are summarized in *Table 2.2*.

Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date
HK/2009/01	Wan Chai Development Phase II – Central –Wanchai Bypass at Hong Kong	DP3, DP6	23 July 2010 (Completed)
	Convention and Exhibition Centre	DP1, DP2	25 August 2011 (Completed)
HK/2009/02	Wan Chai Development Phase II – Central –	DP3, DP5	5 July 2010
Wan Chai Bypass at WanChai East		DP1	26 April 2011
HY/2009/11	Wan Chai Development Phase II and Central – Wan Chai Bypass – North Point Reclamation	DP3	17 March 2010 (Completed)
HY/2009/15	Central-Wanchai Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)	DP3	10 November 2010 (Completed)
		DP1	13 July 2011 (Completed)
HK/2010/06	Wan Chai Development Phase II-Central-Wan Chai Bypass over MTR Tsuen Wan Line	DP3	22 March 2011 (Completed)
04/HY/2006	Reconstruction of Bus Terminus near Man Yiu Street and Man Kwong Street	DP1	September 2010 (Completed)
HY/2009/17	Central – Wan Chai Bypass (CWB) at FEHD Whitfield Depot – Advanced piling works.	DP1	5 October 2010 (Completed)
HY/2009/18	Central – Wan Chai Bypass (CWB) – Central Interchange	DP1	21 April 2011 (Completed)
HY/2009/19	Central – Wanchai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link	DP1	24 March 2011

Table 2.2 Details of Individual Contracts under the Project



Contract No.	Contract Title	Associated DP(s)	Construction Commencement Date
HK/2012/08	Wan Chai Development Phase II Central- Wan Chai Bypass at Wan Chai West	DP1,DP2, DP3	10 March 2014
HY/2010/08	Central- Wanchai Bypass Tunnel – Tunnel (Slip Road 8)	DP1, DP2, DP3	21 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



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	Chief Resident Engineer	Ms. Gloria Tang	2587 1778	2587 1877
	Engineer's Representative for CWB	Principal Resident Engineer	Mr. Peter Poon	3912 3388	3912 3328
Chun Wo –	Contractor under	Project Manager	Mr. Paul Yu	3658 3085	2827 9996
CRGL Joint Venture	Contract no. HK/2009/02	Quality & Environmental Manager	Mr. C.P. Ho	9191 8856	
China State	Contractor under	Project Director	Mr. Chris Leung	3557 6393	2566 2192
Construction Engineering	Contract no. HY/2009/15	Site Agent	Mr. Patrick Ho	3557 6405	
(HK) Ltd.		Construction Manager	Mr. Tom Tong	3557 6415	
		Environmental Officer	Mr. Desmond Ho	3557 6347	
		Environmental Supervisor	Mr. Gordon Lai	6145 6365	
Chun Wo –	Contractor under	Project Manager	Mr. David Lau	3758 8879	3757 8901
CRGL – MBEC_Joint	Contract no. HY/2009/19	Site Agent	Mr. William Luk	3758 6868	
Venture		Deputy Site Agent	Mr. Andy Chan	9879 4325	

Table 2.3 Contact Details of Key Personnel



Party	Role	Post	Name	Contact No.	Contact Fax
		Environmental Manager / Environmental Officer	Mr. M.H. Isa	9884 0810	
		Assist Environmental Officer	Mr. James Chan	9602 2911	-
		Construction Manager (Marine)	Mr. Wingo Wong	9300 2625	-
		Construction	Mr. Ray Ho	9608 6366	
		Manager (Land)	Mr. Mark Mak	9356 4421	
		Construction Manager (Land)	Mr. Yung Kwok Wah	9834 1010	
		Construction Manager (Ext. Works)	Mr. Paul Wan	6629 4652	-
China State-	Contractor under	Project Director	Mr. C. N. Lai	9106 5806	2877 1522
Build King Joint Venture	Contract no. HK/2012/08	Site Agent	Mr. George Cheung	9268 1918	
		Environmental Officer	Mr. James Ma	9130 9549	
		Environmental Supervisor	Mr. Y. L. Ho	9856 5669	
China State	Contractor under	Project Director	Mr. Chris Leung	3467 4299	2566 8061
	Contract no. HY/2010/08	Project Manager	Mr. Chan Ying Lun	3418 3001	
		Site Agent	Mr. Thomas Lui	3557 6452	-
		Marine Manager	Mr. Nickael Chan	3557 6333	-
		Construction Manager	Mr. Tom Tong	3557 6367	
		Environmental Officer	Mr. Gabriel Wong	3557 6466	



Party	Role	Post	Name	Contact No.	Contact Fax
Ramboll Hong	Independent	Independent	Mr. David Yeung	3465 2888	3465 2899
Kong Limited	Environmental	Environmental			
	Checker (IEC)	Checker (IEC)			
Lam	Environmental	Environmental	Mr. Raymond Dai	2882 3939	2882 3331
Geotechnics	Team (ET)	Team Leader			
Limited		(ETL)			



2.4.3. In the reporting month, the principal work activities of individual contracts conducted are as follow:

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

• Removal of TWCR4

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

• Nil

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

• Nil

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

- Seawall reinstatement
- 2.4.4. In coming reporting month, the principal work activities of individual contracts are anticipated as follows:

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

• Removal of TWCR4

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

• Nil

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

• Nil

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

• Seawall reinstatement



3 Status of Regulatory Compliance

3.1 Status of Environmental Licensing and Permitting under the Project

3.1.1. A summary of the current status on licences and/or permits on environmental protection pertinent to the Project is shown in *Table 3.1*.

Table 3.1 Summary of the current status on licences and/or permits on environmental protection pertinent to the Project

Permits and/or Licences	Reference No.	Issued Date	Status
Environmental Permit	EP-356/2009	30 Jul 2009	Valid
Environmental Permit	EP-364/2009/E	22 Dec 2016	Valid
Environmental Permit	EP-376/2009	13 Nov 2010	Valid
Further Environmental Permit	FEP-01/356/2009	18 Feb 2010	Surrendered
Further Environmental Permit	FEP-02/356/2009	24 Mar 2010	Surrendered
Further Environmental Permit	FEP-03/356/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-04/356/2009	22 Nov 2010	Valid
Further Environmental Permit	FEP-05/356/2009	24 Mar 2011	Surrendered
Further Environmental Permit	FEP-01/364/2009	24 Mar 2010	Valid
Further Environmental Permit	FEP-02/364/2009	21 Apr 2010	Valid
Further Environmental Permit	FEP-03/364/2009	12 Jul 2010	Surrendered
Further Environmental Permit	FEP-04/364/2009/A	14 Oct 2010	Surrendered
Further Environmental Permit	FEP-05/364/2009/A	15 Nov 2010	Valid
Further Environmental Permit	FEP-06/364/2009/A	22 Nov 2010	Valid
Further Environmental Permit	FEP-07/364/2009/B	20 Sep 2012	Surrendered
Further Environmental Permit	FEP-07/364/2009/D	24 Nov 2015	Valid
Further Environmental Permit	FEP-08/364/2009/A	15 Jun 2012	Surrendered
Further Environmental Permit	FEP-06/356/2009	5 Mar 2013	Valid



Permits and/or Licences	Reference No.	Issued Date	Status
Further Environmental Permit	FEP-07/356/2009	26 July 2013	Valid
Further Environmental Permit	FEP-09/364/2009/B	5 March 2013	Valid
Further Environmental Permit	FEP-10/364/2009/B	26 July 2013	Valid
Further Environmental Permit	FEP-08/356/2009	1 Aug 2016	Valid
Further Environmental Permit	FEP-11/364/2009/E	22 Dec 2016	Valid



3.1.2. 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/2009/02 – Wan Chai Development Phase II – Central – Wan Chai Bypass at</u> <u>WanChai East</u>

3.1.3. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HK/2009/02 under FEP-03/356/2009 are shown in *Table 3.4* and *Table 3.5*.

Table 3.4 Cumulative Summary of Valid Licences and Permits under Contract no. HK/2009/02

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental	FEP-03/356/2009	24 Mar 2010	N/A	Valid
Permit	FEP-01/364/2009	24 Mar 2010	N/A	Valid
Notification of Works Under APCO	313962	2 Feb 2010	N/A	Valid
	GW-RS0296-18	10 Apr 2018	23 Apr 2018 to 22 Oct 2018	Valid
Construction Noise Permit (CNP) for non-piling	GW-RS0647-18	26 Jul 2018	28 Jul 2018 to 22 Oct 2018	Valid
equipment	GW-RS0674-18	31 Jul 2018	2 Aug 2018 to 31 Jan 2018	Valid
	GW-RS0713-18	14 Aug 2018	16 Aug 2018 to 14 Feb 2019	Valid
Discharge Licence	WT00022295-2015	12 Aug 2015	31 July 2020	Valid
	WT00025276-2016	19 Sep 2016	31 July 2021	Valid
Billing Account under Waste Disposal Ordinance (Land)	7010255	10 Feb 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance (Marine)	7011496	6 Oct 2010	N/A	Valid
Registration as Chemical Waste Producer (Wan Chai)	WPN5213-135-C3593-01	10 Mar 2010	N/A	Valid
Registration as Chemical Waste Producer (TKO 137)	WPN5213-839-C3593-02	22 Sep 2010	N/A	Valid



EP Condition	Submission	Date of Submission
Condition 1.12	Commencement Date of Construction of Marine Works	8 April 2010
Condition 2.6	Management Organization of Main Construction Companies	10 April 2010
Condition 2.7	Works Schedule and Location Plans	8 April 2010
Condition 2.8	Silt Curtain Deployment Plan (Revision O)	24 May 2018
	Silt Screen Deployment Plan	21 April 2010
Condition 2.9	Supplementary Information for Existing WSD Salt Water Intakes at Quarry Bay and Sai Wan Ho	5 Oct 2010
	Silt Screen Deployment Plan (Revision F)	23 Nov 2016
Condition 2.17	Noise Management Plan	6 May 2010
	Landscape Plan (Decorative Screen Hoarding)	11 May 2010
Condition 2.18	Landscape Plan (Control of Night Time Lighting)	2 June 2010
	Landscape Plan (Combined Version)	20 July 2011
	Landscape Plan (Combined Version)	5 Aug 2011
	Acknowledge of Submission	22 Aug 2011

Table 3.5 Summary of submission status under FEP-03/356/2009 Condition



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

3.1.4. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HY/2009/15 under FEP-04/356/2009 are shown in *Table 3.6* and *Table 3.7*.

Table 3.6 Cumulative Summary of Valid Licences and Permits under Contract no.HY/2009/15

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-04/356/2009	22 Nov 2010	N/A	Valid
Notification of Works Under APCO	321822	24 Sep 2010	N/A	Valid
Registration as a Chemical Waste Producer	WPN5213-147-C1169-35	15 Nov 2010	N/A	Valid
Billing Account under Waste Disposal Ordinance	7011553	30 Sep 2010	N/A	Valid



FEP Condition	Submission	Date of
		Submission
Condition 2.6	Management Organization of Main Construction Companies	30 Sep 2010
	Amendment for Management Organization of Main Construction Companies	16 May 2011
Condition 2.7	Works Schedule and Location Plans	27 Oct 2010
	Amendment for Works Schedule and Location Plans	12 Nov 2010
Condition 2.8	Silt Curtain Deployment Plan	30 Nov 2010
	Amendment for Silt Curtain Deployment Plan	24 Feb 2011
	Amendment for Silt Curtain Deployment Plan	11 May 2011
	Amendment for Silt Curtain Deployment Plan	11 Sep 2012
	Amendment for Silt Curtain Deployment Plan	30 Oct 2012
Condition 2.9	Silt Screen Deployment Plan	19 Oct 2010
	Amendment for Silt Screen Deployment Plan	18 Feb 2011
	Amendment for Silt Screen Deployment Plan	15 Jun 2011
Condition 2.18	Proposal for the Removal of Odorous Sediment and Slime	13 Jan 2011
	Amendment for Proposal for the Removal of Odorous Sediment and Slime	8 Mar 2011
	Amendment for Proposal for the Removal of Odorous Sediment and Slime	2 Aug 2011
Condition 2.21	Landscape Plan	18 Feb 2011
Condition 2.23	Noise Management Plan	20 Oct 2010
	Amendment for Noise Management Plan	27 Jan 2011

Table 3.7 Summary of submission status under FEP-04/356/2009 Condition



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

3.1.5. Summary of the current status on licences and/or permits on environmental protection pertinent for contract no. HY/2009/19 is shown in *Table 3.8*

Table 3.8 Cumulative Summary of Valid Licences and Permits under Contract no.HY/2009/19

Permit / Licence / Notification / Approval	Reference No.	Issued Date	Valid Period / Expiry date	Status
Further Environmental Permit	FEP-07/364/2009/D	24 Nov 2015	N/A	Valid
Notification of Works Under APCO	326160	24 Jan 2011	N/A	Valid
Notification of Works (further proposed change to the particulars) Under APCO	415587	11 Apr 2017	N/A	Valid
Construction Noise Permit (CNP) for piling equipment	-	-	-	-
Construction Noise Permit (CNP) (IEC Road Modification for Middle Section)	GW-RS0559-18	3 Jul 2018	6 Jul 2018 to 31 Aug 2018	Valid
Construction Noise Permit (CNP) (IEC Road Modification for Middle Section)	GW-RS0702-18	9 Aug 2018	12 Aug 2018 to 31 Oct 2018	Valid
Construction Noise Permit (CNP) (For IEC Westbound)	GW-RS0558-18	3 Jul 2018	6 Jul 2018 to 30 Sep 2018	Valid
Construction Noise Permit (CNP) (For IEC Westbound)	GW-RS0679-18	3 Aug 2018	6 Aug 2018 to 25 Sep 2018	Valid



Permit / Licence / Notification / Approval	Reference No.	Issued Date	Valid Period / Expiry date	Status
Construction Noise Permit (CNP) (Kodak House)	GW-RS0637-18	25 Jul 2018	27 Jul 2018 to 21 Aug 2018	Expired
Construction Noise Permit (CNP) (Kodak House)	GW-RS0748-18	17 Aug 2018	22 Aug 2018 to 29 Aug 2018	Valid
C&D Waste Disposal	7012306	10 Feb 2011	N/A	-
Vessel Disposal	7013285	21 July 2011	N/A	-
Registration as Chemical Waste Producer	5213-151-C3654-01	24 Mar 2011	N/A	-



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

3.1.6. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HK/2012/08 under FEP-08/356/2009 are shown in *Table 3.9* and *Table 3.10*.

Table 3.9 Cumulative Summary of Valid Licences and Permits under Contract no.
HK/2012/08

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental	FEP-06/356/2009	5 Mar 2013	N/A	Valid
Permit	FEP-08/356/2009	1 Aug 2016	N/A	Valid
Notification of Works Under APCO	355439	4 Feb 2013	N/A	Valid
Registration as a Chemical Waste Producer	5213-134-C3790-01	30 Jun 2016	N/A	Valid
Billing Account under Waste Disposal Ordinance	7016883	18 Feb 2013	N/A	Valid
Water Discharge Licence	WT00020594-2014	22 Dec 2014	31 Jan 2019	Valid
	GW-RS0181-18	23 Feb 2018	26 Feb 2018 to 25 Aug 2018	Expired
Construction Noise	GW-RS0732-18	17 Aug 2018	26 Aug 2018 to 25 Feb 2019	Valid
Permit	GW-RS0243-18	27 Mar 2018	5 Apr 2018 to 4 Oct 2018	Valid
	GW-RS0597-18	10 Jul 2018	13 Jul 2018 to 12 Jan 2019	Valid
	GW-RS0600-18	10 Jul 2018	12 Jul 2018 to 11 Jan 2019	Valid



Table 3.10	Summary of submission status under EP-356/2009 and FEP-06/356/2009
Condition	

FEP Condition	Submission	Date of Submission
Condition 2.8	Silt Curtain Deployment Plan (Rev. 3)	Submitted on 25 Nov 2013 was returned to CSLJV by EPD.
Condition 2.9	Silt Screen Deployment Plan (Rev. 3)	Generally in order as commented by EPD on 19 Sep 2013
Condition 2.23	Noise Management Plan (Rev. 2)	Generally in order as commented by EPD on 15 Aug 2013
Condition 2.24	Landscape Plan (Rev. 3)	Generally in order as commented by EPD on 31 Oct 2013

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

3.1.7. Summary of the current status on licences and/or permits on environmental protection pertinent and submission for contract no. HY/2010/08 under FEP-07/356/2009 are shown in Table **3.11** and **Table 3.12**.

Table 3.11	Cumulative Summary of Valid Licences and Permits under Contract no.
HY/2010/08	

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Further Environmental Permit	FEP-07/356/2009	26 Jul 2013	NA	Valid
	FEP-10/364/2009/B	26 Jul 2013	NA	Valid
Notification of Works Under APCO	357176	2 Apr 2013	N/A	Valid
Registration as a Chemical Waste Producer	WPN5213-147-C1169-44	27 Mar 2013	N/A	Valid
Billing Account under Waste Disposal Ordinance	7017170	27 Mar 2013	N/A	Valid



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Billing Account under Waste Disposal Ordinance (Dumping by Vessel)	7020947	22 Dec 2014	N/A	Valid.
Water Discharge Licence	WT00031281-2018	31 Jul 2018	31 Jul 2018 to 31 Jul 2023	Valid
	WT00028744-2017	4 Aug 2017	4 Aug 2017 to 31 Aug 2019	Valid
Construction Noise Permit	GW-RS0194-18	14 Mar 2018	14 Mar 2018 to 11 Sep 2018	Valid

Table 3.12Summary of submission status under EP-356/2009 and FEP-07/356/2009Condition

FEP Condition	Submission	Date of Submission	
Condition 2.8	Silt Curtain Deployment Plan (Rev 3)	24 Dec 2014	
Condition 2.9	Silt Screen Deployment Plan (Rev 3)	21 Nov 2017	
Condition 2.23	Noise Management Plan (Rev 2)	25 Mar 2014	
Condition 2.24	Landscape Plant (Rev 2)	23 Sep 2014	



4 Monitoring Requirements

4.1 Noise Monitoring

NOISE MONITORING STATIONS

4.1.1. The noise monitoring stations for the Project are listed and shown in *Table 4.1* and *Figure 4.1*. *Appendix 4.1* shows the established Action/Limit Levels for the monitoring works.

Station	Description
M1a	Footbridge for Ex-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 4.1 Noise Monitoring Station

Remarks*: With respect to the demolition of Ex-Harbour Road Sports Centre, the respective noise monitoring station M1a – Harbour Road Sports Centre were finely adjusted on 16 and 25 May 2017 and thereafter to the Footbridge for Harbour Road Sports for noise monitoring

NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

- 4.1.2. The construction noise level shall be measured in terms of the A-weighted equivalent continuous sound pressure level (L_{eq}). L_{eq (30 minutes)} shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. For all other time periods, L_{eq (5 minutes)} shall be employed for comparison with the Noise Control Ordinance (NCO) criteria. Supplementary information for data auditing, statistical results such as L10 and L90 shall also be obtained for reference.
- 4.1.3. 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.
- 4.1.4. 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.

MONITORING EQUIPMENT

- 4.1.5. As referred to in the Technical Memorandum [™] issued under the NCO, sound level meters in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications shall be used for carrying out the noise monitoring. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration level from before and after the noise measurement agree to within 1.0 dB.
- 4.1.6. 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.

4.2 Air Monitoring

AIR QUALITY MONITORING STATIONS

4.2.1. The air monitoring stations for the Project are listed and shown in *Table 4.2* and *Figure 4.1*. *Appendix 4.1* shows the established Action/Limit Levels for the monitoring works.

Table	4.2	Air	Monitoring Station	
1 0010		, .,,	monitoring otation	

Station ID	Monitoring Location	Description
CMA1b	Harbour Grand Hotel Boundary Wall**	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

Remarks*: As per the ENPC meeting in March 2011, the monitoring stations CMA3a – Future CWB site office at Wanchai Waterfront Promenade was renamed as remark.

Remarks**: The location ID of monitoring station CMA1b was updated as "Harbour Grand Hotel Boundary Wall" from 05 June 2017 onwards.



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

AIR MONITORING PARAMETERS, FREQUENCY AND DURATION

- 4.2.2. 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.
- 4.2.3. 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.
- 4.2.4. 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

- 4.2.5. 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.
- 4.2.6. 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

- 4.2.7. 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.
- 4.2.8. 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.
- 4.2.9. 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.
- 4.2.10. 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.
- 4.2.11. All the collected samples shall be kept in a good condition for 6 months before disposal.

IMPACT MONITORING FOR ODOUR PATROL

- 4.2.12. 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



- 4.2.13. Odour patrol shall be conducted by independent trained personnel / competent persons patrolling and sniffing around the shore as shown in *Figure 4.1* to detect any odour at the concerned hours (afternoon is preferred for higher daily temperature).
- 4.2.14. 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.
- 4.2.15. 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.
- 4.2.16. 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 <u>Appendix 4.1.</u>
- 4.2.17. The qualified odour patrol member has individual n-butanol thresholds complied with the requirement of European Standard Method of Air Quality Determination of Odour Concentration by Dynamic Olfactometry (EN13725) in the range of 20 to 80 ppb.

4.3 Water Quality Monitoring

- 4.3.1. 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.
- 4.3.2. 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

4.3.3. Water quality monitoring was undertaken at 8 monitoring stations for WSD salt water intakes and cooling water intakes along the seafront of the Victoria Harbour in the reporting month.



The proposed water quality monitoring stations of the Project are shown in *Table 4.3* and *Figure 4.1*. *Appendix 4.1* shows the established Action/Limit Levels for the monitoring works.

Table 4.3	Marine Water Quality Stations for Water Quality Monitoring
1 4010 410	marine trater quality stations for trater quality monitoring

Station Ref.	Location	Easting	Northing
WSD Salt Water Int	WSD Salt Water Intake		
WSD19	Sheung Wan	833415.0	816771.0
Cooling Water Inta	ke	1	1
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	835895.2	816215.2
	(Wanchai Tower / Revenue		
	Tower / Immigration Tower)		
Cooling Water Intake / WSD Salt Water Intake			
RW21-P789	Great Eagle Centre/ Sun Hung Kai	836268.0	816020.0
	Centre/ WSD Wanchai salt water		
	intake / China Resources Building		

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

- 4-week post construction water quality monitoring at WSD9, WSD10, WSD15 and WSD17 were completed on 6 Feb 2012 and the water quality monitoring at WSD 10 and WSD15 were temporary suspended since 8 Feb 2012, and WSD9 and WSD17 was implemented with respect to HK/2009/02 from 8 Feb 2012 onwards.
- C8 and C9 were implemented with respect to HY/2009/19 from 28 Jan 2012.
- C8 & C9 were temporary suspended since 4 March 2013.
- WSD7 and WSD20 water quality monitoring were temporarily suspended from 27 Apr 2012.
- C2, C3 C4e and C4w water quality monitoring station was temporarily suspended since 22 Apr 2013
- P1, P3, P4 and P5 were commenced since 24 Apr 2013
- C5e and C5w water quality monitoring station was temporarily suspended since 29 Jul 2013.
- WSD21 water quality monitoring station was temporarily suspended since 12 Mar 2014
- WSD9 and WSD17 water quality monitoring station was temporarily suspended since 8 Sep 2014 flood tide.



- The water quality monitoring station C1 shall be associated with Contract No. HK/2009/02 upon commencement of marine works under DP3 at WCR3 area.
- The water quality monitoring station RW21-P789 was adjusted to RW21-P789E and RW21-P789W since 28 November 2016 ebb-tide.
- The water quality monitoring was reverted to previous monitoring station RW21-P789 from PW21-P789E and RW21-P789W from 25 January 2017 onwards.

WATER QUALITY PARAMETERS

- 4.3.4. 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 in-situ while SS is determined in laboratory.
- 4.3.5. 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.

SAMPLING PROCEDURES AND MONITORING EQUIPMENT

4.3.6. 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 4.4* shows the proposed monitoring frequency and water quality parameters. Duplicate in-situ measurements and water sampling should be carried out in each sampling event. For selection of tides for in-situ measurement and water sampling, tidal range of individual flood and ebb tides should be not less than 0.5m.

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

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

- 4.3.7. 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
- 4.3.8. 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).
- 4.3.9. 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

4.3.10. 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

4.3.11. A 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

4.3.12. 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

4.3.13. 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>

4.3.14. 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

4.3.15. 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

- 4.3.16. 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.
- 4.3.17. 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.
- 4.3.18. 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.
- 4.3.19. Current calibration certificates of equipments are presented in <u>Appendix 4.2.</u>

LABORATORY MEASUREMENT / ANALYSIS

4.3.20. 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

- 4.3.21. 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.
- 4.3.22. 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 4.5* and *Figure* <u>4.1.</u>



Table 4.5	Marine Water Quality Stations for Enhanced Water Quality Monitoring
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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

Remarks:

- Enhanced DO monitoring at Windsor House Cooling (Station Ref: C7) was temporarily suspended since 22 October 2014 with respect to the formation of temporary reclamation zone TS3 and was resumed from 1 February 2018 onwards with respect to the completion of removal of temporary reclamation zone.
- Enhanced DO monitoring at Monitoring station Ex-WPCWA SE was temporarily suspended from 31 August 2015 with respect to seawall reinstatement works and formation of active works area. The Enhance DO monitoring at Ex-WPCWA SE was resumed on 11 May 2016 due to completed section of seawall reinstatement works at Ex-PCWA.
- 4.3.23. 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 equal to or less than 3m, only the mid-depth will be monitored).

DAILY SS MONITORING AND 24 HOURS TURBIDITY MONITORING SYSTEM

- 4.3.24. 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.
- 4.3.25. 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 sahll 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

4.3.26. 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.

- 4.3.27. 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
- 4.3.28. 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).



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5. Monitoring Results

- 5.0.1. 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 4.1</u>. The monitoring results are presented in according to the Individual Contract(s).
- 5.0.2. In the reporting month, the concurrent contracts are as follows:
 - Contract no. HK/2009/02 Wan Chai Development Phase II Central-Wan Chai Bypass at Wan Chai East
 - Contract no. HY/2009/19- Central- Wan Chai Bypass Tunnel (North Point Section) and Island Eastern Corridor Link
 - Contract no. HK/2012/08 Wan Chai Development Phase II Central- Wan Chai Bypass at Wan Chai West
 - Contract no. HY/2010/08 Central- Wanchai Bypass Tunnel (Slip Road 8 Section)
- 5.0.3. As confirmed by WDII RSS, the marine construction works under Contract HK/2009/01 have been completed since 24 July 2017, the monitoring association with Contract HK/2009/01 and relevant reporting has been ceased in the reporting month.
- 5.0.4. As confirmed by CWB RSS, the marine construction works under Contract HY/2009/15 and relevant reporting have been completed by 19 June 2017, the monitoring association with Contract HY/2009/15 and relevant reporting has been ceased in the reporting month.
- 5.0.5. The environment monitoring schedules for reporting month and coming month are presented in *Appendix 5.1*.

5.1 Noise Monitoring Results

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

5.1.1. The proposed division of noise monitoring stations are summarized in *Table 5.1* below.

Table 5.1 Noise Monitoring Station for Contract nos. HK/2009/02

Station	Description
M1a	Footbridge for Ex-Harbour Road Sports Centre

5.1.2. No action or limit level exceedance was recorded in the reporting period



5.0.1. Noise monitoring results measured in this reporting period are reviewed and summarized. Details of noise monitoring results and graphical presentation can be referred in <u>Appendix</u> <u>5.2.</u>

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

5.0.2. The proposed division of noise monitoring stations are summarized in *Table 5.3* below.

Table 5.3 Noise Monitoring Station for Contract no. HY/2009/19

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

- 5.0.3. No action or limit level exceedance was recorded in the reporting period.
- 5.0.4. Noise monitoring results measured in this reporting period are reviewed and summarized.
 Details of noise monitoring results and graphical presentation can be referred in <u>Appendix</u>
 <u>5.2.</u>

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

5.0.5. The proposed division of noise monitoring stations are summarized in Table 5.4 below.

Table 5.4 Noise Monitoring Station for Contract no. HY/2010/08

Station	Description
M2b	Noon Gun Area
M3a	Tung Lo Wan Fire Station

- 5.0.6. No action or limit level exceedance was recorded in the reporting period.
- 5.0.7. Noise monitoring results measured in this reporting period are reviewed and summarized.
 Details of noise monitoring results and graphical presentation can be referred in <u>Appendix</u>
 <u>5.2.</u>



5.2 Air Monitoring Results

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

5.2.1 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 are summarized in *Table 5.6* below.

Station	Description
CMA3a	CWB PRE Site Office
CMA4a	Society for the Prevention of Cruelty to Animals

 Table 5.6
 Air Monitoring Station for Contract no. HK/2009/02

- 5.2.2 No action or limit level exceedance was recorded in the reporting period.
- 5.2.3 Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in *Appendix 5.3*.

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

5.2.4 The proposed division of air monitoring stations are summarized in *Table 5.8* below.

Table 5.8 Air Monitoring Stations for Contract no. HY/2009/19

Station	Description
CMA1b	Harbour Grand Hotel Boundary Wall
CMA2a	Causeway Bay Community Centre

- 5.2.5 No action or limit level exceedance was recorded in the reporting period.
- 5.2.6 Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in *Appendix 5.3*.



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

5.2.7 The proposed division of air monitoring stations are summarized in *Table 5.9* below.

 Table 5.9
 Air Monitoring Stations for Contract no. HK/2012/08

Station	Description
CMA5b	Pedestrian Plaza
CMA6a	WDII PRE Site Office

- 5.2.8 No action or limit level exceedance was recorded in the reporting period.
- 5.2.9 Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in *Appendix 5.3*.

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

The proposed division of air monitoring stations are summarized in *Table 5.10* below.

Table 5.10 Air Monitoring Stations for Contract no. HY/2010/08

Station	Description
CMA3a	CWB PRE Site Office

- 5.2.10 No action or limit level exceedance was recorded in the reporting period.
- 5.2.11 Air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air monitoring results and graphical presentation can be referred in *Appendix 5.3*.



5.3 Water quality monitoring Results

- 5.3.1 Action and Limit level of water quality monitoring was transited from dry season to wet season from 01 April 2018.
- 5.3.2 Water quality monitoring station C7 and Enhance DO monitoring station C6 shall be associated with Contract HY/2010/08, upon confirmation of marine construction works completion under Contract HY/2009/15 at CBTS area and Ex-PCWA area since 19 June 2017.
- 5.3.3 Referring to CWB RSS confirmation on the completion of marine construction activities within the Ex-PCWA area and the completion of the post construction water quality monitoring, the respective Enhance DO Monitoring within Ex-PCWA for monitoring station Ex-PCWA SE and Ex-PCWA SW was temporarily suspended since 07 March 2017 ebb tide onwards.
- 5.3.4 With respect to the reinstatement of the silt screen system for Cooling Water Intakes P7, P8, P9 and WSD Water Intake RW21, the respective water quality monitoring was reverted to the previous monitoring location for Water Quality Monitoring Station RW21-P789 from water quality stations RW21-P789 East (RW21-P789E) and RW21-P789 West (RW21-P789W) from 25 January 2017 onwards.
- 5.3.5 With respect to the temporarily suspension of marine construction works at WCR3 Area by Contract HK/2009/02, the installed silt screen for intake group (P7, P8, P9 and WSD21) was removed on 26 November 2016.
- 5.3.6 As advised by the Contractor of HK/2009/01, all silt screen remains removal works at P1, P3, P4, P5 and C1 water quality monitoring stations were completed on 8 May 2016.
- 5.3.7 With respect to the marine works undertaken at WCR3 by Contract HK/2009/02, the respective water quality monitoring station C1 associated with Contract HK/2009/01 was updated as in association with Contract HK/2009/01 and Contract HK/2009/02.
- 5.3.8 With respect to the marine works undertaken at CBTS by Contract HY/2010/08, the respective water quality monitoring station C7 associated with Contract HY/2009/15 was updated as in association with Contract HY/2009/15 and Contract HY/2010/08.
- 5.3.9 With respect to the marine works undertaken at HKCEC2 by Contract HK/2012/08, the respective water quality monitoring station WSD19, P1, P3, P4, and P5 were associated with Contract HK/2012/08.
- 5.3.10 As confirmed by WDII RSS, the marine construction works under Contract HK/2009/01 have been completed since 24 July 2017, the monitoring association with Contract HK/2009/01 and relevant reporting has been ceased in the reporting month.
- 5.3.11 As confirmed by CWB RSS, the marine construction works under Contract HY/2009/15 and relevant reporting have been completed by 19 June 2017, the monitoring association with Contract HY/2009/15 and relevant reporting has been ceased in the reporting month.



Table 5.11 Water quality Monitoring Stations for contracts with respect to remainingDP3 work areas after the completion of DP5 & DP6 in 2012 and intake diversion in 2013

Contract No.	Remaining DP3 and work area(s)	Relevant Water quality monitoring Stations,	Division of WQM w.r.t tentative works commenced / to be commenced
HK/2009/02	WCR3, WCR4, TWCR4	RW21-P789 ² , C1 ¹	Apr 2013
HK/2012/08	HKCEC2W, HKCEC2E	WSD19, P1 ³ , P3 ³ , P4 ³ , P5 ³	Aug 2013
HY/2010/08	TCBR3, TCBR4	C6 ⁴ , C7 (plus enhanced DO monitoring)	Mar 2014

Remarks:

- 1. The water quality monitoring station C1 shall be associated with Contract No. HK/2009/02 upon commencement of marine works under DP3 at WCR3 area.
- 4 intakes (re-provisioned Wanchai WSD intake, Great Eagle Centre, China Resources Centre & Sun Hung Kai Centre constructed adjacent to each other) taken as a single group for silt screen protection and monitoring. Re-provisioned intake reference: P1: HKCEC Phase 1; P3: APA, P4: Shui On; P5: Government Buildings (Wanchai Tower / Revenue Tower / Immigration Tower)
- 3. The water quality monitoring stations for WSD19, P1, P3, P4, P5 shall be associated with Contract No. HK/2009/01 prior to their transition to Contract HK/2012/08.
- Enhance DO monitoring station C6 and water quality monitoring station C7 shall be associated with Contract HY/2010/08, upon confirmation of marine construction works completion under Contract HY/2009/15 at CBTS area and Ex-PCWA area since 19 June 2017.
- With respect to WDII RSS confirmation on the completion of marine works under Contract HK/2009/01 since 24 July 2017, the association of WQM station C1 under Contract HK/2009/01 has been ceased in the November 2017 reporting month.



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

5.3.12 Water quality monitoring for Contract no. HK/2009/02 was commenced on 8 July 2010. The proposed division of water quality monitoring stations are summarized in *Table 5.13* below.

Table 5.13 Water quality Monitoring Stations for Contract no. HK/2009/02

Station Ref.	Location	Easting	Northing			
Cooling Water Int	Cooling Water Intake					
C1	HKCEC Extension	835885.6	816223.0			
Cooling Water Int	Cooling Water Intake / WSD Salt Water Intake					
RW21-P789	Great Eagle Centre/ Sun Hung Kai Centre/ WSD Wanchai salt water intake / China Resources Building	836268.0	816020.0			

- 5.3.13 No action or limit level exceedance was recorded in the reporting period.
- 5.3.14 Water quality monitoring results measured in this reporting period are reviewed and summarized. Details of water quality monitoring results and graphical presentation can be referred in *Appendix 5.4.*



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

5.3.15 Water quality monitoring for Contract no. HK/2012/08 was commenced on 5 March 2013. The proposed division of water quality monitoring stations are summarized in *Table 5.14* below.

Table 5.14 Water quality Monitoring Stations for Contract no. HK/2012/08					
Station Ref.	Locatior		Easting	Northing	

otation ren.		Lasting	Northing		
WSD Salt Wat	WSD Salt Water Intake				
WSD19	Sheung Wan	833415.0	816771.0		
Cooling Water Intake					
P1	HKCEC Phase I	835774.7	816179.4		
P3	The Academy of performing Arts	835824.6	816212.0		
P4	Shui on Centre	835865.6	816220.0		
P5	Government Buildings (Wanchai Tower / Revenue Tower / Immigration Tower)	835895.2	816215.2		

5.3.16 One limit level exceedance of turbidity and one limit level of suspended solids were recorded at WSD19 on 15 August 2018 during flood tide in the reporting period.

No marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. In view of above, it is considered the exceedance was not related to Project work.

5.3.17 One limit level exceedance of turbidity was recorded at WSD19 on 15 August 2018 during ebb tide in the reporting period.

No marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. In view of above, it is considered the exceedance was not related to Project work.

5.3.18 One action level exceedance of turbidity was recorded at P4 on 15 August 2018 during flood tide in the reporting period.

No marine construction activity was conducted under Contract HK/2012/08 on the monitoring date, while he location of the construction area was at downstream of monitoring station P4 during monitoring period. In view of the above, it is considered that the exceedance was not related to Project works. No exceedance was recorded in the subsequent monitoring on 15 August 2018 during ebb tide.

5.3.19 Water quality monitoring results measured in this reporting period are reviewed and summarized. Details of water quality monitoring results and graphical presentation can be referred in *Appendix 5.4.*



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

5.3.20 The proposed division of water quality monitoring stations are summarized in *Table 5.15* and **Table 5.16** below:

 Table 5.15
 Water quality monitoring Stations for Contract no. HY/2010/08

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

5.3.21 No action or limit level exceedance was recorded in the reporting period

Table 5.16 Enhance Dissolved Oxygen Monitoring Stations for Contract no. HY/2010/08

Station Ref.	Location
C6	Excelsior Hotel
C7	Windsor House Cooling

Remarks:

Enhanced DO monitoring at Windsor House Cooling (Station Ref: C7) was temporarily suspended since 22 October 2014 with respect to the formation of temporary reclamation zone TS3 and was resumed from 1 February 2018 onwards with respect to the completion of removal of temporary reclamation zone.

With respect to the completion of the removal of the temporary reclamation at TS3 area confirmed by the CWB RSS and the completion of the 4-weeks post construction water quality monitoring at the associated Enhanced DO monitoring stations, the respective Enhance DO monitoring at Monitoring Station C6 and C7 were temporarily suspended from 5 March 2018 ebb tide onwards



5.4 Waste Monitoring Results

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

5.3.22 Details of the waste disposal in the reporting period are summarized in *Table 5.18*.

Table 5.18	Details of Waste Dis	posal for Contract no.	HK/2009/02

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	9710.2	301565.9	TKO137 / TM 38
Inert C&D materials recycled, m ³	NIL	18161	N/A
Non-inert C&D materials disposed, m ³	NIL	1515.103	SENT Landfill
Non-inert C&D materials recycled, m ³	N/A	N/A	N/A
Chemical waste disposed, kg	NIL	13860	SENT Landfill
Marine Sediment (Type 1 – Open Sea Disposal), m ³	NIL	240222 (Bulk volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal), m ³	NIL	146445 (Bulk volume)	East of Sha Chau



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

5.3.23 Details of the waste disposal in the reporting period are summarized in Table 5.19

Tahlo 5 10	Details of Waste Disposal for Contract no. HY/2009/15	
Table 5.19	Details of Waste Disposal for Contract no. H 1/2009/15	

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds	Remarks
Inert C&D materials	NIL	141579.2	Tuen Mun Area 38	NIL
disposed, m ³	NIL	65216	TKO137 FB	NIL
Inert C&D materials	NIL	8127.21	HY/2010/08	NIL
recycled, m ³	NIL	304	Ex-PCWA	NIL
	NIL	111.9	TS4	NIL
Non-inert C&D materials disposed, m ³	NIL	252.2	SENT Landfill	NIL
Non-inert C&D materials recycled, kg	NIL	299361.5	N/A	NIL
Chemical waste disposed, kg	NIL	8,200	N/A	NIL
Marine Sediment (Type 1 – Open Sea Disposal), m ³	NIL (Bulk Volume)	156909 (Bulk Volume)	Cheung Chau South	Dredging from TCBR1E / TCBR1W / TCBR2/ TCBR3 / TCBR4 / Maintenance dredging
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m ³	NIL (Bulk Volume)	327746 (Bulk Volume)	East of Sha Chau / South of the Brothers	Dredging from TCBR1E / TCBR1W / TCBR2/ TCBR3 / TCBR4 / Maintenance dredging
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynthetic Containers) m ³	NIL (Bulk Volume)	12640 (Bulk Volume)	East of Sha Chau / South of the Brothers	Dredging from TCBR1W / Maintenance dredging
Marine Sediment (Type 2 – Confined Marine Disposal), m ³	NIL	9350 (Bulk Volume)	East of Sha Chau	Dredging from Eastern Breakwater of CBTS



Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds	Remarks
Marine Sediment (Type 1 – Open Sea Disposal) , m3	NIL (Bulk Volume)	600 (Bulk Volume)	East Sha Chau / South of The Brothers	Dredging from Phase 3 Mooring Re-arrangement
Marine Sediment (Type 2– Confined Marine Disposal) , m3	NIL (Bulk Volume)	14,780 (Bulk Volume)	South of The Brothers	Dredging from Phase 3 Mooring Re-arrangement
Marine Sediment (Type 3 – Special Treatment / Disposal contained in Geosynehetic Containers) , m3	NIL (Bulk Volume)	2,760 (Bulk Volume)	South of The Brothers	Dredging from Phase 3 Mooring Re-arrangement



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

5.3.24 Details of the waste disposal in the reporting period are summarized in *Table 5.20*.

Table 5.20 Details of Waste Disposal for Contract no. HY/2009/19

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³	NIL	355921.04	TM38
Inert C&D materials recycled, m ³	NIL	59367	N/A
Non-inert C&D materials disposed, m ³	NIL	1068.6	N/A
Non-inert C&D materials recycled, kg	NIL	333.14	N/A
Chemical waste disposed, L	NIL	2.12	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m³	NIL	162	South Cheung Chau
Marine Sediment (Type 2 – Confined Marine Disposal) , m ³	NIL	681	East Sha Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m3	NIL	4976.00	East Sha Chau



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

5.3.25 Details of the waste disposal in the reporting period are summarized in *Table 5.21*.

Table 5.21 Details of Waste Disposal for Contract no. HK/2012/08

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m ³ *	NIL	4131	TM38
	NIL	273	ТКО137
Inert C&D materials recycled, m ³	NIL	NIL	N/A
Non-inert C&D materials disposed, m ³	NIL	400	SENT
Non-inert C&D materials recycled, kg	NIL	NIL	N/A
Chemical waste disposed, L	NIL	NIL	N/A
Marine Sediment (Type 1 – Open Sea Disposal), m ³	NIL (Bulk volume)	31759 (Bulk volume)	South of Cheung Chau
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine Disposal) , m3	NIL (Bulk volume)	108542 (Bulk volume)	South of The Brothers (from 27 Aug 2013 onwards)



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

5.3.26 Details of the waste disposal in the reporting period are summarized in *Table 5.22*

Table 5.22 Details of Waste Disposal for Contract no. HY/2010/08

Waste Type	Quantity this month	Cumulative Quantity-to-Date	Disposal / Dumping Grounds
Inert C&D materials	NIL	95094.759	TM38
disposed, m ³	NIL	19739.4	TKO137
Inert C&D materials recycled, m ³	NIL	NIL	N/A
Non-inert C&D materials disposed, m ³	NIL	NIL	N/A
Non-inert C&D materials recycled, kg	NIL	NIL	N/A
Chemical waste disposed, L	NIL	NIL	N/A
Marine Sediment (Type 1 – Open Sea Disposal)	NIL	62559.4	South Cheung Chau / Brothers Island *
Marine Sediment (Type 1 – Open Sea Disposal (Dedicate Sites) & Type 2 – Confined Marine disposal)	NIL	28309.2	Brothers Island
Marine Sediment (Type 3 – Special Treatment)	NIL	7780	Brothers Island



6. Compliance Audit

6.0.1. The Event Action Plan for construction noise, air quality and water quality are presented in *Appendix 6.1*.

6.1 Noise Monitoring

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

6.1.1 No action or limit level exceedance was recorded in the reporting period.

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

6.1.2 No action or limit level exceedance was recorded in the reporting period.

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

6.1.3 No action or limit level exceedance was recorded in the reporting period.

6.2 Air Monitoring

<u>Contract no. HK/2009/02 – Wan Chai Development Phase II – Central – Wan Chai Bypass at</u> <u>Wan Chai East (CWB Tunnel)</u>

6.2.1 No action or limit level exceedance was recorded in the reporting period.

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

6.2.2 No action or limit level exceedance was recorded in the reporting period.

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

6.2.3 No action or limit level exceedance was recorded in the reporting period.

Contract no. HY/2010/08 – Central-Wanchai Bypass – Tunnel (Slip Raod 8 Section)

6.2.4 No action or limit level exceedance was recorded in the reporting period.



6.3 Water Quality Monitoring

6.3.1 Due to the hoisting of Amber Rainstorm Warning Signal, the water quality monitoring event scheduled on 11 August 2018 during ebb tide and 17 August 2018 during flood tide were cancelled.

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

6.3.2 No action or limit level exceedance was recorded in the reporting period.

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

6.3.3 Two limit level exceedance of turbidity and one limit level exceedance of suspended solids were recorded at WSD19 and one action level exceedance of turbidity was recorded at P4 in the reporting period. After the investigation, the exceedance were concluded as non-project related.

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

6.3.4 No action or limit level exceedance was recorded in the reporting period.

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

6.4.1 There was no non-compliance from the site audits in the reporting period. The observations and recommendations made in each individual site audit session were presented in Section 8.

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

6.5.1 There was no particular action taken since no non-compliance was recorded from the site audits in the reporting period.



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 roadworks, drainage and seawall coping were performed in August 2018 reporting period. 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 road and drains construction and removal of temporary reclamation at Wan Chai. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were ventilation building construction junction modification at Central; reinstatement works along Causeway Bay Typhoon Shelter, road works and landscape works at Victoria Park; bridge construction, approach ramp construction, landscape deck construction, drainage construction and ventilation building construction at North Point area in the reporting period. 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 and North Point 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.



8. Environmental Site Audit

- 8.0.1. During this reporting month, weekly environmental site audits were conducted for Contracts no. HK/2009/02, HY/2009/19, HK/2012/08 and HY/2010/08. No non-conformance was identified during the site audits.
- 8.0.1. Site inspections for Contract no. HK/2009/02 were conducted in the reporting period. The results of these inspections and outcomes are summarized in *Table 8.2.*

Item	Date	Observations	Action taken by Contractor	Completion date
180802_1	2 August 2018	Dust mitigation measure shall be provide during material handling on derrick barge (Portion 3&4)	No material handling was observed	Completed as observed on 9 August 2018
180802_2	2 August 2018	Contractor shall critically review the condition of silt curtain and repair the damaged section it necessary. (Portion 3&4)	Damaged section was repaired	Completed as observed on 9 August 2018
180809_1	9 August 2018	Leak oil shall be treated as chemical waste. Drip tray shall be provided to the oil drum. (Portion 3&4)	Leaked oil was cleaned as chemical waste	Completed as observed on 15 August 2018
180809_2	9 August 2018	Contractor shall clean the litter floating on the sea. (Portion3&4)	Floating refuse was cleaned within site boundary	Completed as observed on 15 August 2018

Table 8.2	Summary of Environmental Inspections for Contrac	t no. HK/2009/02

8.0.2. Site inspections for Contract no. HY/2009/19 were carried out in the reporting period. The results of these inspections and outcomes are summarized in *Table 8.3.*

Table 8.3	ummary of Environmental Inspections for Contract no. HY/2009	/19

ltem	Date	Observations	Action taken by Contractor	Completion date
180801_1	1 August 2018	Contractor shall ensure the construction site discharge strictly follow the valid discharge license condition (Portion 3)	The concerned discharge pipe was removed	Completion as observed on 10 August 2018



8.0.3. Site inspections for Contract no. HK/2012/08 were carried out in the reporting period. The results of these inspections and outcomes are summarized in **Table 8.5**.

Table 8.5	Summary of Environmental Inspection	ns for Contract no. HK/2012/08
1 0010 0.0	Summary of Environmental mopection	

ltem	Date	Observations	Action taken by Contractor	Outcome
180731_01	31 July 2018	Contractor shall enhance the mitigation measure including covering the exposed surface and clean the mud sitting along the seawall and ensure there is no gap between the seawall bricks. (Seawall along P2 road)	Exposed surface was covered by tarpaulin and the mud sitting along the seawall was cleaned, no surface runoff was observed	Completion as observed on 7 August 2018
180731_02	31 July 2018	Chemical containers should be properly handled and disposal. (Zone C)	Chemical containers were removed	Completion as observed on 7 August 2018
180807_01	7 August 2018	Sufficient dust mitigation shall be provided to dusty surface to avoid dust emission. (Zone C)	Water spraying has implemented	Completion as observed on 14 August 2018
180807_01	7 August 2018	Contractor shall provide cleaning to the site access. (A2 road)	The site access was cleaned properly	Completion as observed on 28 August 2018

8.0.4. Site inspections for Contract no. HY/2010/08 were conducted in the reporting month. No observation was found in the reporting month.



9. Complaints, Notification of Summons and Prosecution

- 9.0.1. No environmental complaint was received in the reporting period.
- 9.0.2. The details of cumulative complaint log and updated summary of complaints are presented in *Appendix 9.1*
- 9.0.3. Cumulative statistic on complaints and successful prosecutions are summarized in *Table 9.1* and *Table 9.2* respectively.

Table 9.1 Cumulative Statistics on Complaints

Reporting Period	No. of Complaints
Commencement works (Mar 2010) to last reporting month	49
August 2018	0
Total	49

Table 9.2 Cumulative Statistics on Successful Prosecutions

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



Lam Geotechnics Limited

10. Conclusion

- 10.0.1. 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.
- 10.0.2. The scheduled construction activities and the recommended mitigation measures for the coming month are listed in *Table 10.1*.

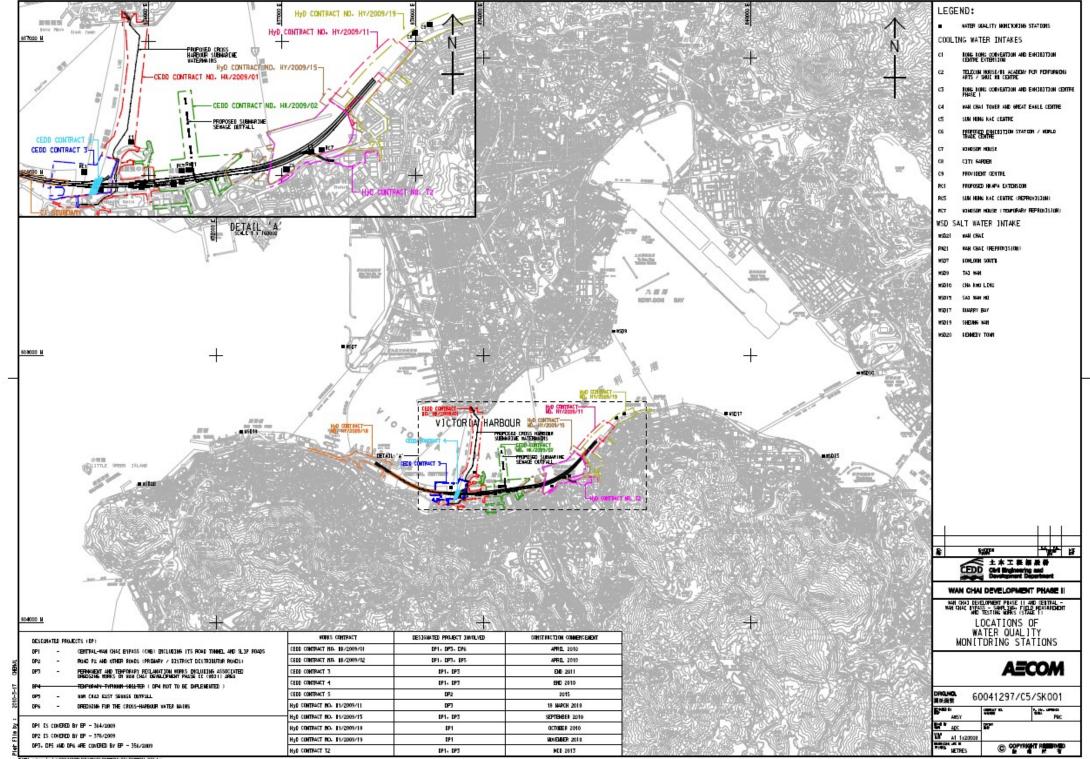
Contract No.	Key Construction Works	Recommended Mitigation Measures
HK/2009/02	Removal of TWCR4	 Daily visual inspection of silt screen to ensure the integrity and condition of silt screen. Implement silt screen in accordance with the associated plans submitted to EPD. Ensure proper deployment of silt curtain around marine construction works area.
HY/2009/19	• Nil	• Nil
HK/2012/08	• Nil	• Nil
HY/2010/08	Seawall reinstatement	 Daily visual inspection of silt screen to ensure the integrity and condition of silt screen. Implement silt screen in accordance with the associated plans submitted to EPD. Ensure proper deployment of silt curtain around marine construction works area.

Table 10.1Construction Activities and Recommended Mitigation Measures in ComingReporting Month

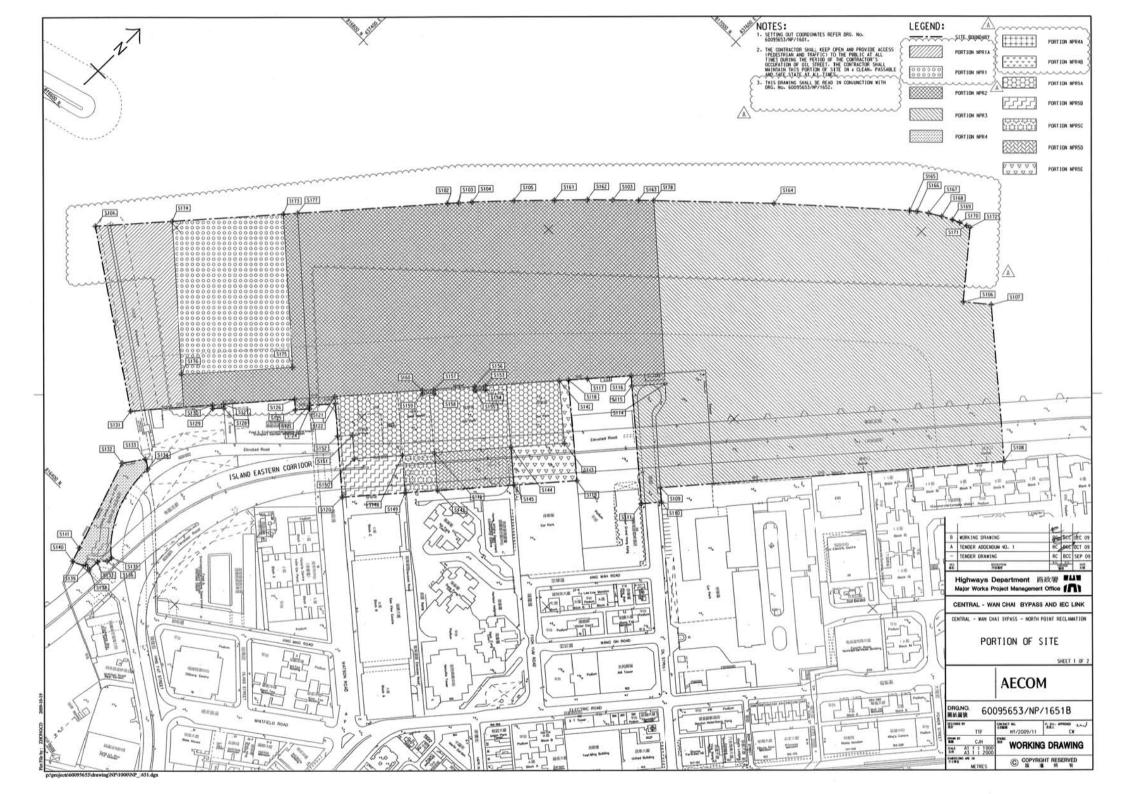


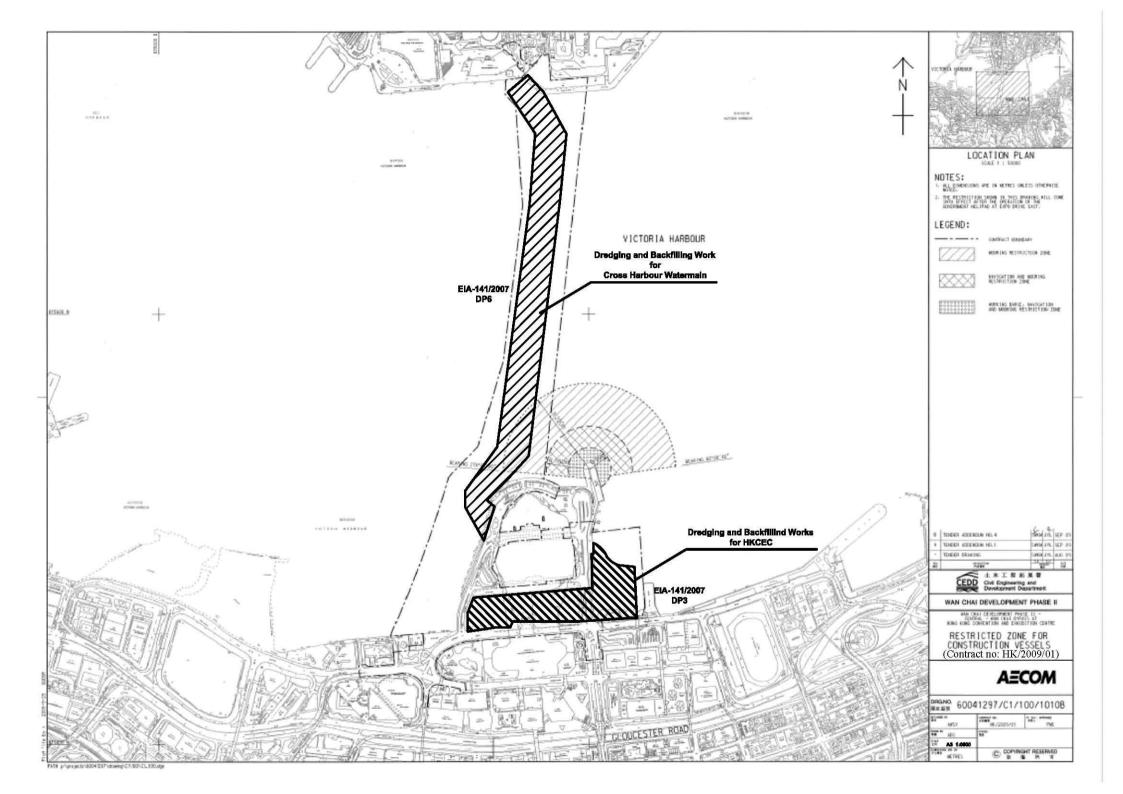
Figure 2.1

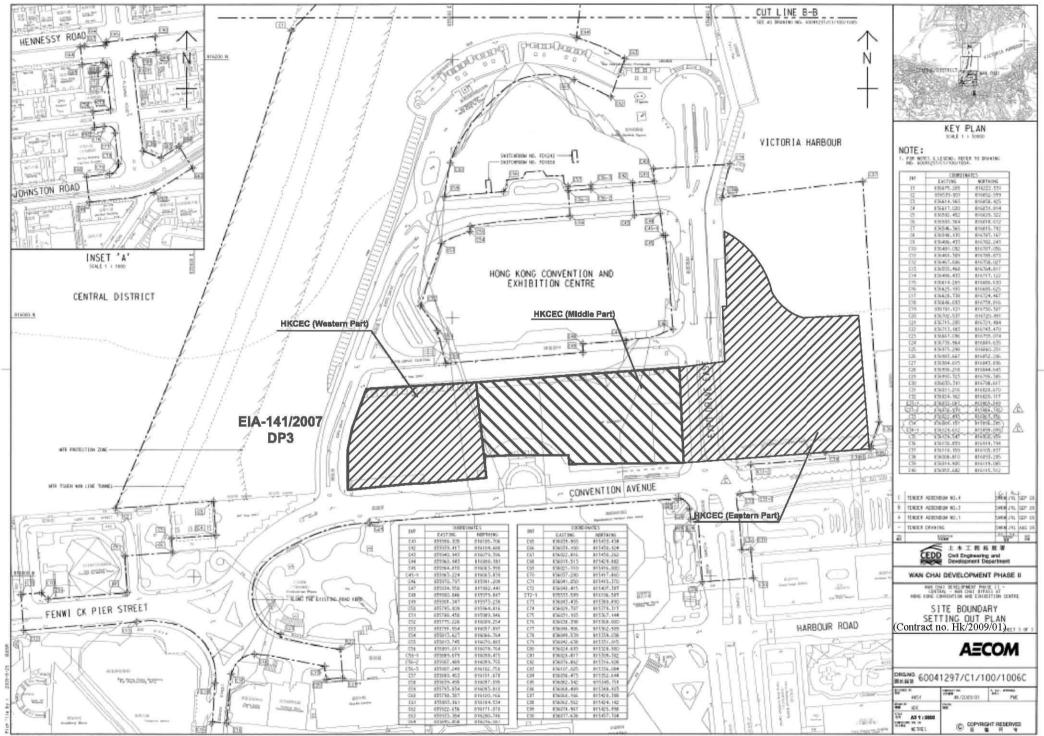
Project Layout



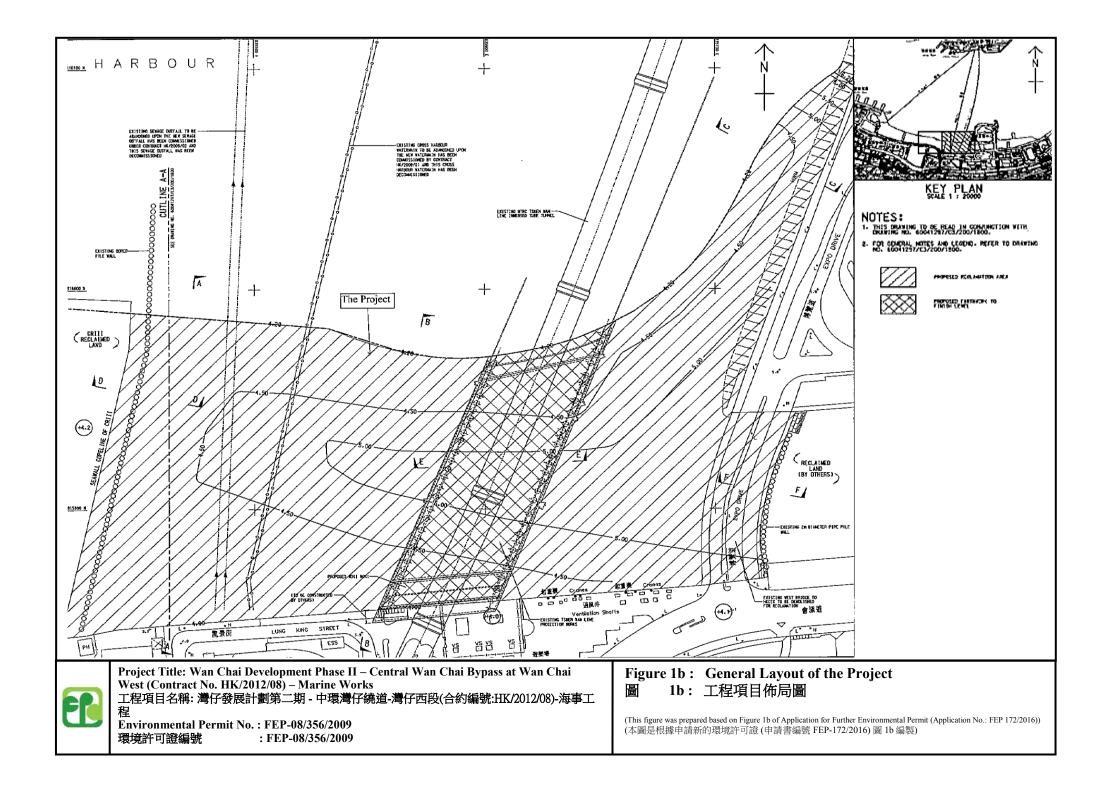
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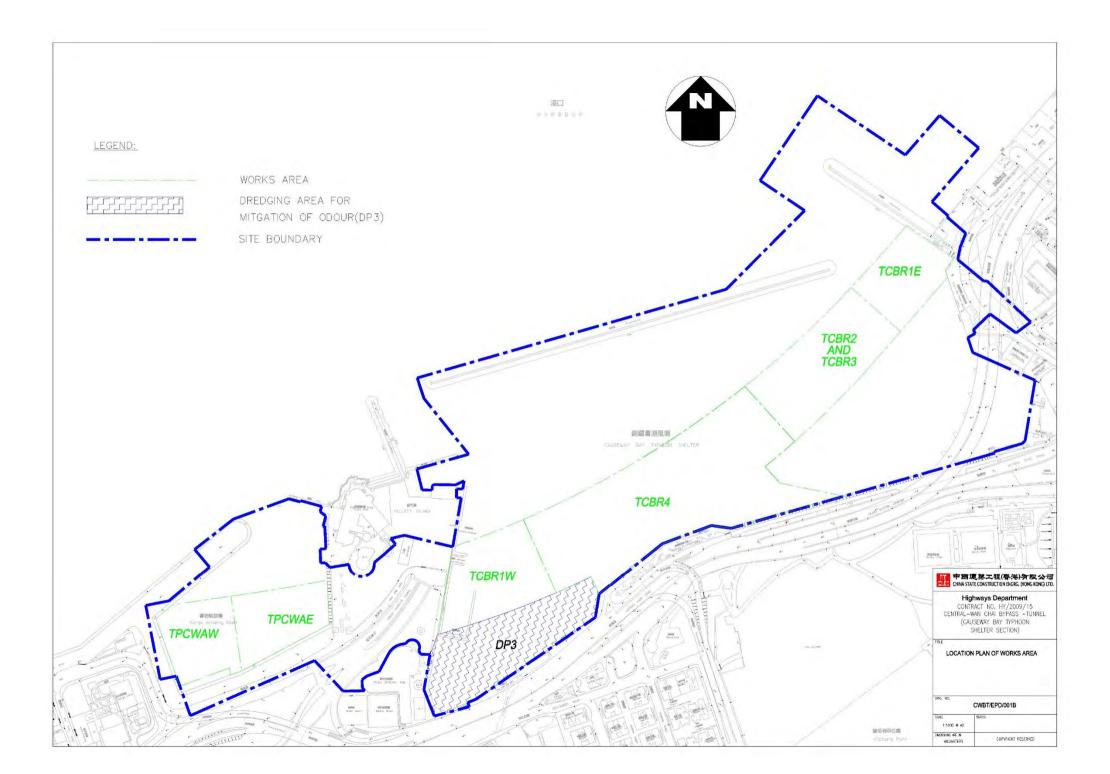


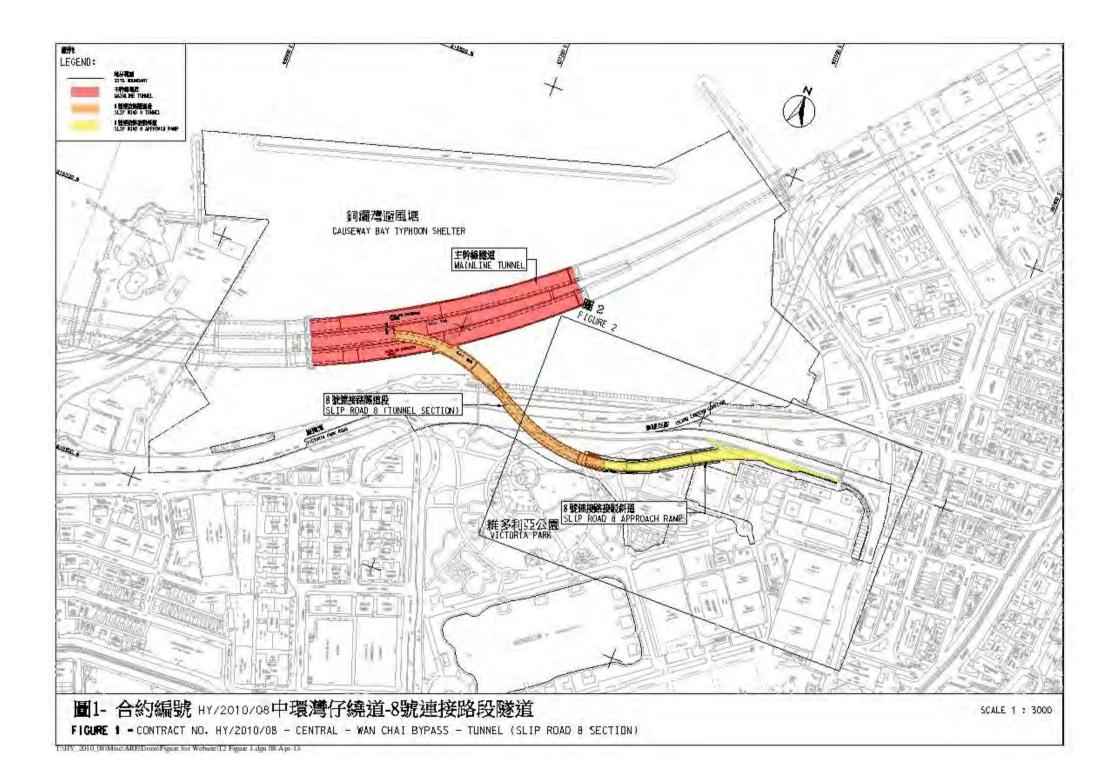


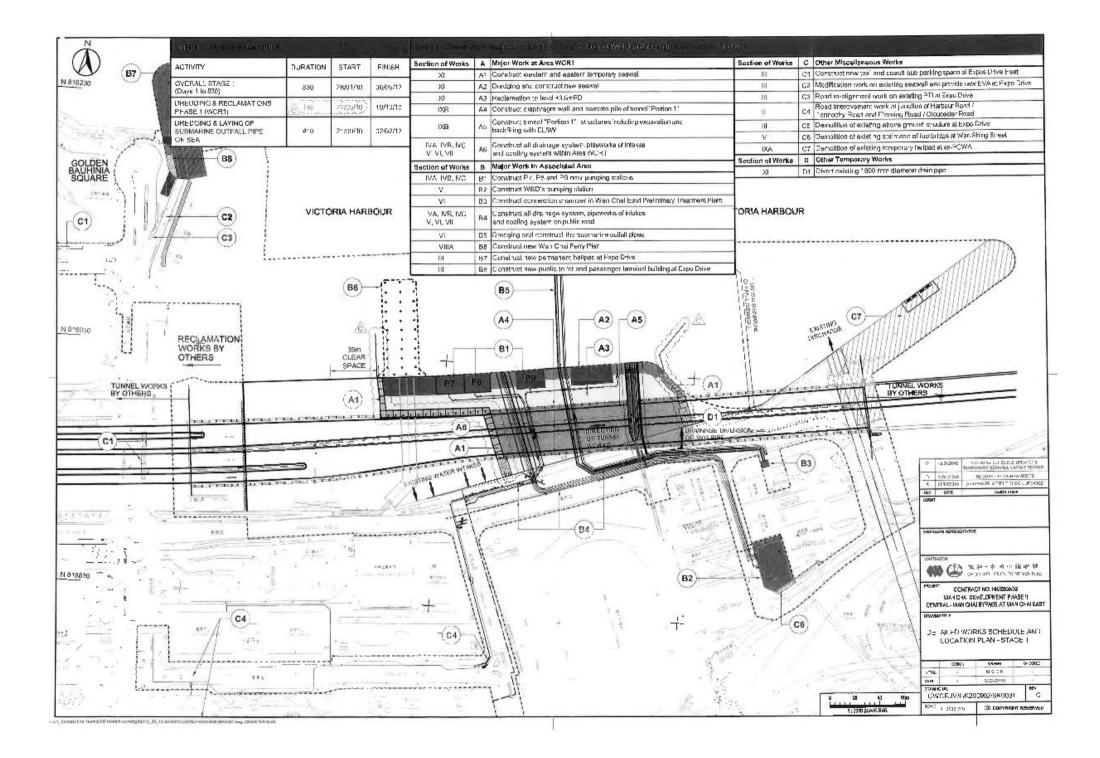


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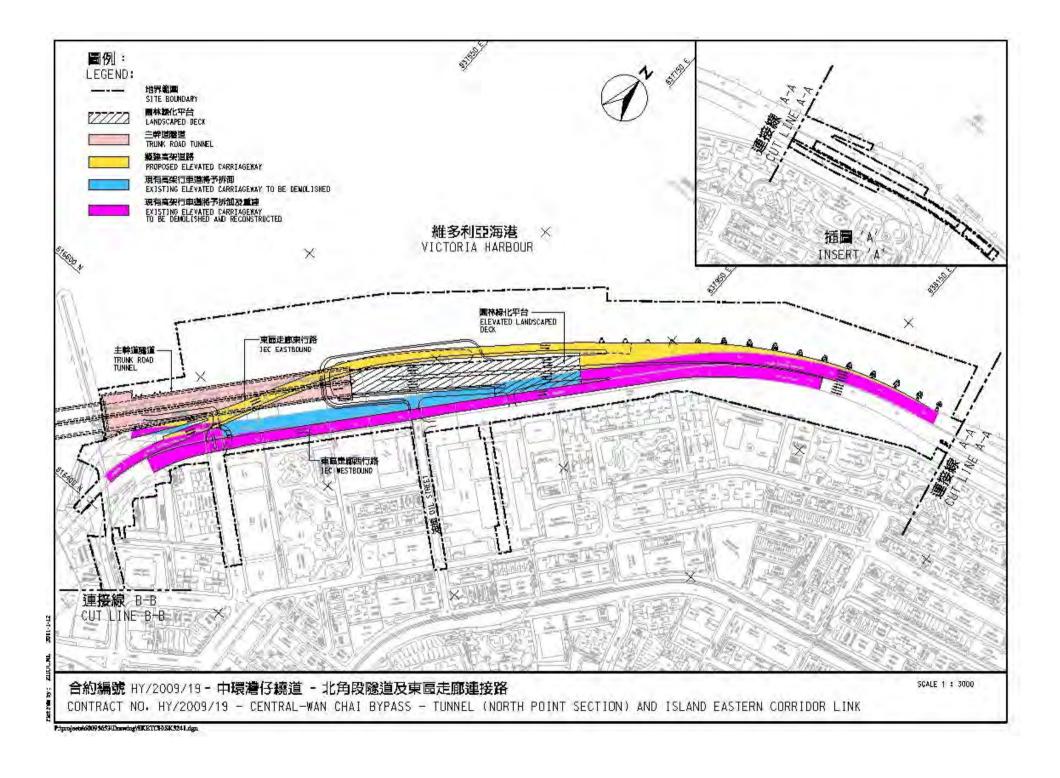




Figure 2.2

Project Organization Chart



Project Organization Chart

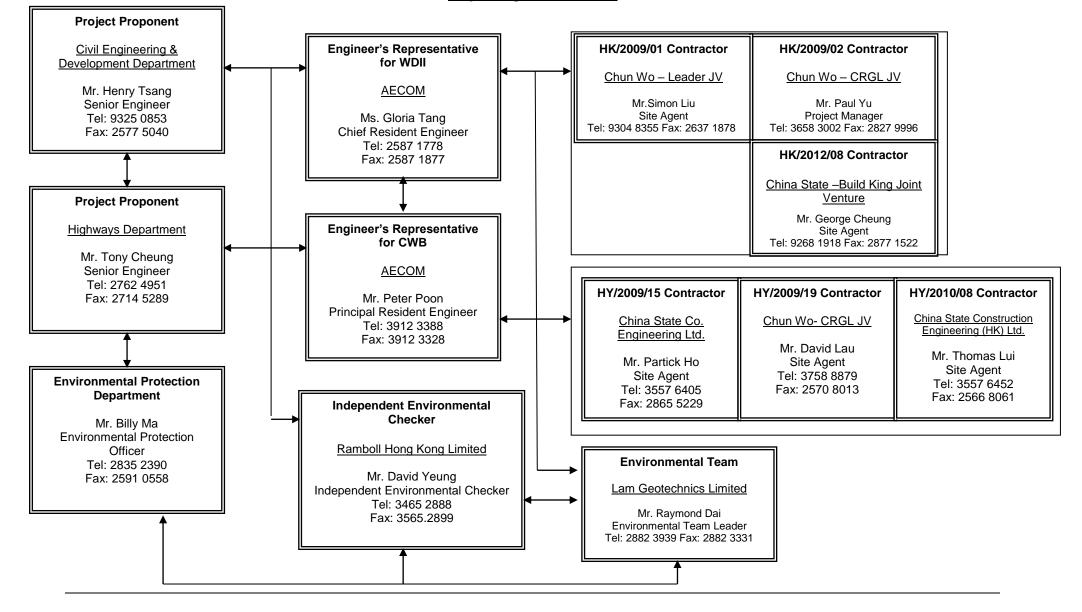




Figure 4.1

Locations of Monitoring Stations



RW21-P788

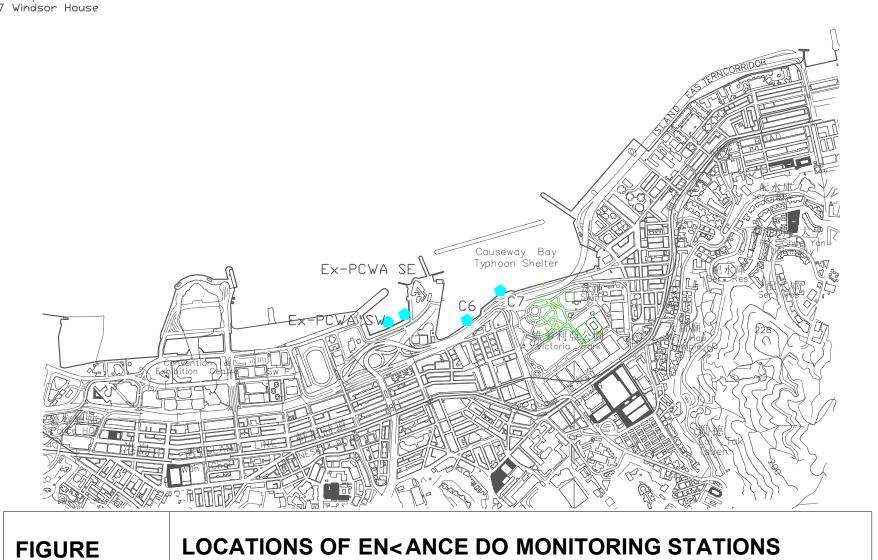
P1

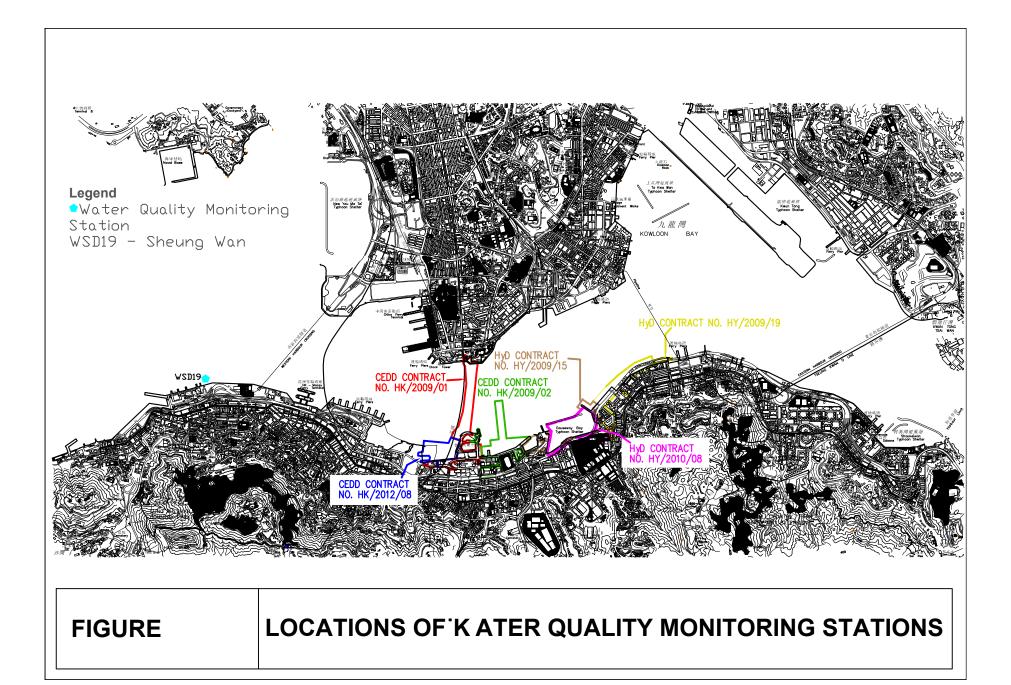
FIGURE

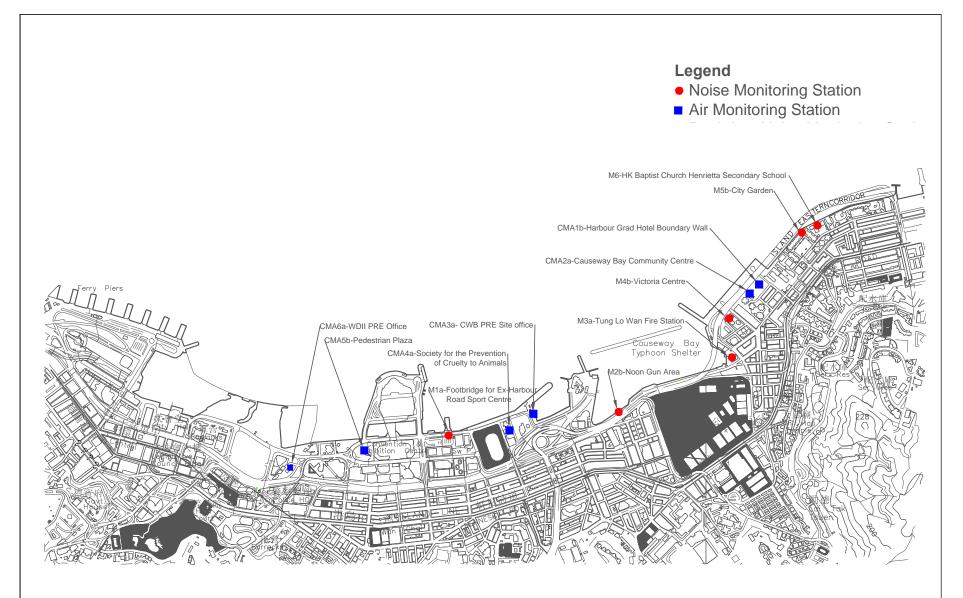
LOCATIONS OF K ATER QUALITY MONITORING STATIONS

Legend

Enhance DD Monitoring Stations
 Ex-PCWA SE Ex-Public Cargo Wanchai Area SouthEast Station
 Ex-PCWA SW Ex-Public Cargo Wanchai Area Southwest Station
 C6 Proposed Exhibition Station/ World Trade Centre
 C7 Windsor House







LOCATIONS OF AIR QUALITY AND NOISE MONITORING STATIONS



Appendix 3.1

Environmental Mitigation Implementation Schedule

Wan Chai Development Phase II and Central-Wanchai Bypass - Sampling, Field Measurement and Testing Works (Stage 3)

Implementation	Schedule	for Air	Quality	Control
implementation	Scheume	IUI AII	Quanty	Control

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

Appendix 3.1

Contract no. HK/2015/01

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 3)

Monthly EM&A Report

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

¹ CEDD will identify an implementation agent.

² CEDD will identify an implementation agent.

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 3)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation
		Liocation, Thing	Agent	Des	С	0	Dec	and Guidelines
\$3.10.2	Monthly (from July to September) monitoring of odour impacts, for a period of 5 years, is proposed during the operational phase of the Project to ascertain the effectiveness of the Enhancement Package over time, and to monitor any on- going odour impacts at the ASRs.	Planned ASRs (CBTS Breakwater)/First 5-year period of operation phase	CEDD ¹			V		EIAO-TM
For DP1 -	CWB (Within the Project Boundary)							
S3.6.53 – S3.6.54	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 3.1

Contract no. HK/2015/01

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 3)

Monthly EM&A Report

Table A13.2 Implementation Schedule for Noise Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Stages			on Dec	Relevant Legislation and Guidelines
Construction					-			

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 3)

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

Appendix 3.1

Monthly EM&A Report

Contract no. HK/2015/01

Wan Chai Development Phase II and Central-Wanchai Bypass

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
\$4.8.3 – \$4.8.5	 Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks: Slip road 8 tunnel Construction of diaphragm wall and substructures of the tunnel approach ramp Excavation Construction of slabs Backfill Demolition and construction of substructures for the IEC Demolition works of existing piers and crossheads of the marine section of the existing IEC Use of PME grouping for the following tasks: At-grade road construction Substructure for IECL connection 	Work Sites / During Construction	Contractor		V			EIAO-TM, NCO
For DP2 –	WDII Major Roads (Road P2)							
S4.8.3 – S4.8.4	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

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 3)

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

Appendix 3.1

Monthly EM&A Report

Contract no. HK/2015/01

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 3)

 EIA Ref
 Environmental Protection Measures / Mitigation Measures
 Location / Timing
 Implementation Agent
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Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 3)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	on	Relevant Legislation	
		Location / Thing	Agent	Des	С	0	Dec	and Guidelines	
\$4.8.14 - \$4.8.18	 For Existing NSRs about 235m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC about 230m length of noise semi-enclosure with transparent panel covering the main carriageways (eastbound and westbound) of the CWB and IEC about 135m length of 5.5m high cantilevered noise barrier with 3m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC about 95m length of 5.5m high cantilevered noise barrier with 1m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC about 95m length of 3.5m high vertical noise barrier with 1m cantilever inclined at 45° with transparent panel on the eastbound slip road to the IEC about 350m length of 3.5m high vertical noise barrier with transparent panel on the eastbound slip road to the IEC about 350m length of 3.5m high vertical noise barrier with transparent panel on the eastbound slip road to the IEC 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 For Future/Planned NSRs about 265m length of noise semi-enclosure with transparent panel covering the westbound slip road from the IEC 	Near North Point / Before commencement of operation of road project In between the Electric Centre (next to City Garden) and CDA(1) site / Before occupation of Planned NSRs in CDA and CDA(1) sites.	HyD	~	√ #			EIAO-TM	

Appendix 3.1

Contract no. HK/2015/01

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 3)

Monthly EM&A Report

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	nplem Staş		on	Relevant Legislation
				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.

Wan Chai Development Phase II and Central-Wanchai Bypass - Sampling, Field Measurement and Testing Works (Stage 3)

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Table A13.3 Implementation Schedule for Water Quality Control

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entatio ges*	on	Relevant Legislation
	Zin (il olimetrati i rotection i rotabili co / i ritigation riteadul co	Timing	Agent	Des	С	0	Dec	and Guidelines
Constructio	on Phase							
For DP3 – 1 Boundary)	Reclamation Works, DP5 (Wan Chai East Sewage Outfall), DP6 (Cross-Harbo	our Water Mains	from Wan Chai to T	Tsim Sh	a Tsu	i), DP.	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		\checkmark			EIAO-TM, WPCO
\$5.8	 Dredging shall be carried out by closed grab dredger for the following works: Seawall construction in all the reclamation areas; Construction of the CWB Tunnel Construction of the proposed WSD water mains; and Construction of the proposed Wan Chai East sewage outfall pipelines. 	Work site / During the construction period	Contractor		\checkmark			EIAO-TM, WPCO
S5.8, Figure 5.3	 Dredging for the Wan Chai East sewage outfall pipelines shall not be carried out concurrently with the following activities: Dredging along the proposed cross-harbour water mains; Dredging along the seawall in the Wan Chai Reclamation (WCR) zone (area between HKCEC Extension and PCWA). 	Work site / During the construction period	Contractor		\checkmark			EIAO-TM, WPCO

Appendix 3.1

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Wan Chai Development Phase II and Central-Wanchai Bypass

EIA Ref	Environmental Prote	ction Measures / N	litigation Me	easures		Location /	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
						Timing	Agent	Des	С	0	Dec	and Guidelines
S5.8	S5.8 The water body behind the temporary reclamations within the Causeway Bay typhoon shelter shall not be fully enclosed.					Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
S5.8	As a mitigation measu within the temporar immermeable barrier	ry embayment bet	Work site / During the construction	Contractor		√			EIAO-TM, WPCO			
	impermeable barrier, suspended from a floating boom on the water surface and extending down to the seabed, will be erected by the contractor before the HKCEC1 commences. The barrier will channel the stormwater discharge flows from Culvert L to the outside of the embayment. The contractor will maintain this barrier until the reclamation works in HKCEC2W are carried out and the new Culvert L extension is constructed.					period						
\$5.8, Figure 5.3	The total dredging rate than the maximum pro- production rates witho	oduction rates state	d in the table	e below.		Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
	Maximum Dredging Reclamation Area Maximum Dredging Rate Maximum Dredging Dredging Rate (m ³ per day Maximum Dredging (for 16 hrs per day)											
1	Dredging along seawall or											
	North Point Shoreline Zone	e (NPR) TBW		375 94	42,000 10,500							
	Causeway Bay Shoreline Zone	TCBR		375	42,000							
1	PCWA Zone	ICDIX		313	35,000							

Wan Chai Development Phase II and Central-Wanchai Bypass

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Wan Chai Shoreline Zone (WCR) HKCEC Shoreline Zone HKCEC Shoreline Zone	0	n wicasui co	Environmental Protection Measures / Mitigation Measures		ocation / Implementation		Stag	ges*	Relevant Legislation	
				Timing	Agent	Des	С	0	Dec	and Guidelines
HKCEC Shoreline Zone HKCEC Stage 1 & 3	6,000	375	42,000							
	1,500	94	10,500							
(HKCEC) HKCEC Stage 2	6,000	375	42,000							
Cross Harbour Water Mains	1,500	94	10,500							
Wan Chai East Submarine Sewage Pipeline	1,500	94	10,500							
Note: $1,500 \text{ m}^3$ per day shall be appli seawall of WCR1.	ed for c	onstruction	of the western							
1,500m ³ per day for construction of the proximity of the WSD intake), followed t western seawall (above high water mark	western by partial c) to prot	seawall (wh seawall con	ich is in close struction at the	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
partially constructed to protect the ner dredging activities. For example, at T seawalls shall be constructed first (abo seawater intakes at the inner water would	CBR1W, by seav CBR1W, by high be prote	vater intake the southe water mar cted from th	s from further rn and eastern k) so that the e impacts from	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
				Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
as stated below: Interim Construction Location of A. Stage Scenario 2A in early WSD saltwar 2009 with concurrent Bay, Sheung V	pplicatio r ter intake Van, Wan	ns es at Sai Wa Chai, Kowloo	an Ho, Quarry on South	Work site / During the construction period	Contractor		V			EIAO-TM, WPCO
	seawall of WCR1. Dredging along the seawall at WCR1 1,500m ³ per day for construction of the proximity of the WSD intake), followed to western seawall (above high water mark much as possible from further dredging a For dredging within the Causeway Bay partially constructed to protect the ner dredging activities. For example, at T seawalls shall be constructed first (abb seawater intakes at the inner water would the remaining dredging activities along the Silt curtains shall be deployed around seawall dredging and seawall trench fill TCBR and NP. Silt screens shall be applied to seawater in as stated below: Interim Construction Stage Scenario 2A in early 2009 with concurrent dredging activities at Cooling wate	Wan Chai East Submarine Sewage Pipeline 1,500 Note: 1,500 m³ per day shall be applied for c seawall of WCR1. Dredging along the seawall at WCR1 shall l Jrodging along the seawall at WCR1 shall l 1,500 m³ per day for construction of the western proximity of the WSD intake), followed by partial western seawall (above high water mark) to prot much as possible from further dredging activities. For dredging within the Causeway Bay typhoor partially constructed to protect the nearby seaw dredging activities. For example, at TCBR1W, seawalls shall be constructed first (above high seawater intakes at the inner water would be prote the remaining dredging activities along the northe Silt curtains shall be deployed around the closeawall dredging and seawall trench filling in th TCBR and NP. Silt screens shall be applied to seawater intakes at as stated below: Interim Construction Location of Application Stage Scenario 2A in early 2009 with concurrent draft aging activities at Cooling water intakes	Wan Chai East Submarine Sewage Pipeline 1,500 94 Note: 1,500 minimity 94 Note: 1,500 minimity 94 Note: 1,500 minimity 94 Dredging along the seawall at WCR1 shall be undertak 1,500m ³ per day for construction of the western seawall (wh proximity of the WSD intake), followed by partial seawall con western seawall (above high water mark) to protect the adja much as possible from further dredging activities. For dredging within the Causeway Bay typhoon shelter, se partially constructed to protect the nearby seawater intake dredging activities. For example, at TCBR1W, the southe seawalls shall be constructed first (above high water mar seawater intakes at the inner water would be protected from th the remaining dredging activities along the northern boundary Silt curtains shall be deployed around the closed grab di seawall dredging and seawall trench filling in the areas of H TCBR and NP. Silt screens shall be applied to seawater intakes at interim consastated below: Interim Construction Location of Applications Stage Scenario 2A in early WSD saltwater intakes at Sai Wa 2009 with concurrent dredging activities at Cooling water intakes for Hong Kod Cooling water intakes for Hong Kod	Wan Chai East Submarine Sewage Pipeline 1,500 94 10,500 Note: 1,500 m³ per day shall be applied for construction of the western seawall of WCR1. Dredging along the seawall at WCR1 shall be undertaken initially at 1,500m³ per day for construction of the western seawall (which is in close proximity of the WSD intake), followed by partial seawall construction at the western seawall (above high water mark) to protect the adjacent intakes as much as possible from further dredging activities. For dredging within the Causeway Bay typhoon shelter, seawall shall be partially constructed to protect the nearby seawater intakes from further dredging activities. For example, at TCBR1W, the southern and eastern seawalls shall be constructed first (above high water mark) so that the seawater intakes at the inner water would be protected from the impacts from the remaining dredging activities along the northern boundary. Silt curtains shall be deployed around the closed grab dredgers during seawall dredging and seawall trench filling in the areas of HKCEC, WCR, TCBR and NP. Silt screens shall be applied to seawater intakes at interim construction stages as stated below: Interim Construction Location of Applications Stage Scenario 2A in early WSD saltwater intakes at Sai Wan Ho, Quarry Bay, Sheung Wan, Wan Chai, Kowloon South Crobing water intakes for Hong Kong Convention	Wan Chai East Submarine Sewage Pipeline 1,500 94 10,500 Note: 1,500 m³ per day shall be applied for construction of the western seawall of WCR1. Work site / Dredging along the seawall at WCR1 shall be undertaken initially at 1,500 m³ per day for construction of the western seawall (which is in close proximity of the WSD intake), followed by partial seawall construction at the western seawall (above high water mark) to protect the adjacent intakes as much as possible from further dredging activities. Work site / During the construction period For dredging within the Causeway Bay typhoon shelter, seawall shall be partially constructed to protect the nearby seawater intakes from further dredging activities. For example, at TCBR1W, the southern and eastern seawall shall be constructed first (above high water mark) so that the seawater intakes at the inner water would be protected from the impacts from the remaining dredging and seawall trench filling in the areas of HKCEC, WCR, TCBR and NP. Work site / During the construction stages as stated below: Interim Construction Stage Silt screens shall be applied to seawater intakes at interim construction stages as stated below: Work site / MSD saltwater intakes at Sai Wan Ho, Quarry Bay, Sheung Wan, Wan Chai, Kowloon South Cooling water intakes for Hong Kong Convention Work site /	Wan Chai East Submarine Sewage Pipeline1,5009410,500Note: 1,500 m³ per day shall be applied for construction of the western seawall of WCR1.Work site / During the construction per day for construction of the western seawall (which is in close proximity of the WSD intake), followed by partial seawall construction at the western seawall (above high water mark) to protect the adjacent intakes and partially constructed to protect the nearby seawater intakes form further dredging activities.Work site / During the construction periodContractorFor dredging within the Causeway Bay typhoon shelter, seawall shall be artially constructed to protect the nearby seawater intakes from further dredging activities. For example, at TCBR1W, the southern and eastern seawatel intakes at the inner water would be protected from the impacts from the remaining dredging activities along the northern boundary.Work site / During the construction periodSilt curtains shall be deployed around the closed grab dredgers during seawall dredging and seawall trench filling in the areas of HKCEC, WCR, TCBR and NP.Work site / During the construction seawater intakes at interim construction stages as stated below:Contractor During the construction periodSilt screens shall be applied to seawater intakes at interim construction stages ow stated below:WSD saltwater intakes at Sai Wan Ho, Quarry Bay, Sheung Wan, Wan Chai, Kowloon SouthWork site / During the construction period	Wan Chai East Submarine Sewage Pipeline 1,500 94 10,500 Note: 1,500 m³ per day shall be applied for construction of the western seawall of WCR1. Work site / During the construction of the western seawall (which is in close proximity of the WSD intake), followed by partial seawall construction at the western seawall (above high water mark) to protect the adjacent intakes as much as possible from further dredging activities. Work site / During the construction period For dredging within the Causeway Bay typhoon shelter, seawall shall be partially constructed first (above high water mark) so that the seawater intakes at the inner water would be protected from the impacts from the remaining dredging activities along the northern boundary. Work site / During the construction period Silt curtains shall be deployed around the closed grab dredgers during seawall dredging and seawall trench filling in the areas of HKCEC, WCR, TCBR and NP. Work site / During the construction stages as stated below: Silt screens shall be applied to seawater intakes at interim construction stage as stated below: Location of Applications Work site / During the construction period Silt screens shall be applied to seawater intakes at Sai Wan Ho, Quarry 2009 with concurrent days, Sheung Wan, Wan Chai, Kowloon South Cooling water intakes for Hong Kong Convention Work site / During the construction period	Wan Chai East Submarine Sewage Pipeline 1.500 94 10.500 Note: 1,500 m³ per day shall be applied for construction of the western seawall of WCR1. Work site / Contractor Dredging along the seawall at WCR1 shall be undertaken initially at 1,500 m³ per day for construction of the western seawall (which is in close proximity of the WSD intake), followed by partial seawall construction at the western seawall (above high water mark) to protect the adjacent intakes as much as possible from further dredging activities. Work site / Contractor √ For dredging within the Causeway Bay typhoon shelter, seawall shall be partially constructed to protect the nearby seawater intakes from further dredging activities. For example, at TCBRIW, the southern and eastern seawall dredging activities along the northern boundary. Work site / Contractor √ Silt curtains shall be deployed around the closed grab dredgers during seawall dredging and seawall trench filling in the areas of HKCEC, WCR, TCBR and NP. Work site / During the construction period Contractor √ Silt screens shall be applied to seawater intakes at interim construction stages as stated below: Location of Applications Work site / During the construction period Contractor √ Silt screens shall be applied to seawater intakes at Sai Wan Ho, Quarry 2009 with concurrent dredging activities at Chai, Kowloon South Cooling water intakes for Hong Kong Convention Work site / Contractor √ <td>Wan Chai East Submarine Sewage Pipeline 1,500 94 10,500 Note: 1,500 m³ per day shall be applied for construction of the western seawall of WCR1. Work site / Contractor √ Dredging along the seawall at WCR1 shall be undertaken initially at 1,500 m³ per day for construction of the western seawall (which is in close proximity of the WSD intake), followed by partial seawall construction intakes as much as possible from further dredging activities. Work site / During the construction period For dredging within the Causeway Bay typhon shelter, seawall shall be dredging activities. For example, at TCBRIW, the southern and eastern seawall shall be constructed first (above high water mark) so that the seawater intakes at the inner water would be protected from the impacts from the remaining dredging activities along the northern boundary. Contractor √ Silt curtains shall be deployed around the closed grab dredgers during seawall trench filling in the areas of HKCEC, WCR, TCBR and NP. Work site / During the construction stages as taited below: Interim Construction Location of Applications Work site / During the construction period Ouring the construction period Sitt screens shall be applied to seawater intakes at interim construction stages as stated below: Mork site / Contractor √ Interim Construction Location of Applications Bay, Sheung Wan, Wan Chai, Kowloon South dredging activities at Contractor Contractor</td> <td>Wan Chai East Submarine Sewage Pipeline 1,500 94 10,500 Note: 1,500 m³ per day shall be applied for construction of the western seawall of WCR1. Work site / During the construction of the western seawall (which is in close proximity of the WSD intake), followed by partial seawall construction at the western seawall (above high water mark) to protect the adjacent intakes as much as possible from further dredging activities. For example, at TCBR1W, the southern and eastern seawall shall be constructed first (above high water mark) so that the seawall interes at the inpacts from the remaining dredging activities along the northern boundary. Work site / Contractor √ Silt curtains shall be deployed around the closed grab dredgers during seawall dredging and seawall trench filling in the areas of HKCEC, WCR, TCBR and NP. Work site / Contractor √ Silt screens shall be applied to seawater intakes at a interim construction stages asted below: Location of Applications Work site / Contractor √ Interim Construction graph with concurrent of drage activities at the entakes at the intakes at the intakes at 5ai Wan Ho, Quarry 2009 with concurrent of X, Sheung Wan, Wan Chai, Kowloon South Cooling water intakes for Hong Kong Convention Work site / Contractor √</td>	Wan Chai East Submarine Sewage Pipeline 1,500 94 10,500 Note: 1,500 m³ per day shall be applied for construction of the western seawall of WCR1. Work site / Contractor √ Dredging along the seawall at WCR1 shall be undertaken initially at 1,500 m³ per day for construction of the western seawall (which is in close proximity of the WSD intake), followed by partial seawall construction intakes as much as possible from further dredging activities. Work site / During the construction period For dredging within the Causeway Bay typhon shelter, seawall shall be dredging activities. For example, at TCBRIW, the southern and eastern seawall shall be constructed first (above high water mark) so that the seawater intakes at the inner water would be protected from the impacts from the remaining dredging activities along the northern boundary. Contractor √ Silt curtains shall be deployed around the closed grab dredgers during seawall trench filling in the areas of HKCEC, WCR, TCBR and NP. Work site / During the construction stages as taited below: Interim Construction Location of Applications Work site / During the construction period Ouring the construction period Sitt screens shall be applied to seawater intakes at interim construction stages as stated below: Mork site / Contractor √ Interim Construction Location of Applications Bay, Sheung Wan, Wan Chai, Kowloon South dredging activities at Contractor Contractor	Wan Chai East Submarine Sewage Pipeline 1,500 94 10,500 Note: 1,500 m³ per day shall be applied for construction of the western seawall of WCR1. Work site / During the construction of the western seawall (which is in close proximity of the WSD intake), followed by partial seawall construction at the western seawall (above high water mark) to protect the adjacent intakes as much as possible from further dredging activities. For example, at TCBR1W, the southern and eastern seawall shall be constructed first (above high water mark) so that the seawall interes at the inpacts from the remaining dredging activities along the northern boundary. Work site / Contractor √ Silt curtains shall be deployed around the closed grab dredgers during seawall dredging and seawall trench filling in the areas of HKCEC, WCR, TCBR and NP. Work site / Contractor √ Silt screens shall be applied to seawater intakes at a interim construction stages asted below: Location of Applications Work site / Contractor √ Interim Construction graph with concurrent of drage activities at the entakes at the intakes at the intakes at 5ai Wan Ho, Quarry 2009 with concurrent of X, Sheung Wan, Wan Chai, Kowloon South Cooling water intakes for Hong Kong Convention Work site / Contractor √

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EIA Ref	Environmental Protection	n Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation
			Timing	Agent	Des	С	0	Dec	and Guidelines
	TBW, NP and Water Mains Zone	Convention and Exhibition Centre Phase I, Telecom House / HK Academy for Performing Arts / Shun On Centre, Wan Chai Tower / Revenue Tower / Immigration Tower and Sun Hung Kai Centre							
	Scenario 2B in late 2009/2010 with concurrent dredging activities at Sewage Pipelines Zone and TCBR.	WSD saltwater intakes at Sheung Wan, Wan Chai Cooling water intakes for Queensway Government Offices, Excelsior Hotel, World Trade Centre and Windsor House.							
	Scenario 2C in 2011 with concurrent dredging activities at HKCEC and TCBR.	WSD saltwater intakes at Sheung Wan and Reprovisioned WSD Wan Chai saltwater intake. Cooling water intakes for MTR South, Excelsior Hotel & World Trade Centre and reprovisioned Windsor House.							
\$5.8	spillage and sealed ti	include: used, shall be designed and maintained to avoid ghtly while being lifted. For dredging of any sed watertight grabs must be used;	Work site / During the construction period	Contractor		V			ProPECC PN 1/94; WPCO (TM-DSS)
	vessels and the seabe	d so that adequate clearance is maintained between d in all tide conditions, to ensure that undue rated by turbulence from vessel movement or							
		dredgers shall be fitted with tight fitting seals to o prevent leakage of material;							
		shall not cause foam, oil, grease, scum, litter or tter to be present on the water within the site or							
	dredged material into the	noppers shall be controlled to prevent splashing of ne surrounding water. Barges or hoppers shall not t will cause the overflow of materials or polluted transportation; and							

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 3)

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

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 3)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	In		entati ges*	on	Relevant Legislation
LEIMI	Environmental i roccuon measures / mitigatori measures	Timing	Agent	Des	С	0	Dec	and Guidelines
For the Wh	nole Project							
S5.8	Construction Runoff and Drainage	Work site	Contractor		\checkmark			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						wrco (IM-D33)
	• Permanent drainage channels shall incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities shall be based on the guidelines in Appendix A1 of ProPECC PN 1/94;							
	 a sediment tank constructed from pre-formed individual cells of approximately 6 - 8 m3 capacity can be used for settling ground water prior to disposal; 							
	• oil interceptors shall be provided in the drainage system for the tunnels and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor shall have a bypass to prevent flushing during periods of heavy rain;							
	• precautions and actions to be taken when a rainstorm is imminent or forecast, and during or after rainstorms. Particular attention shall be paid to the control of any silty surface runoff during storm events;							
	 on-site drainage system shall be installed prior to the commencement of other construction activities. Sediment traps shall be installed in order to minimise the sediment loading of the effluent prior to discharge; 							
	 All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge shall be adequately designed for the controlled release of storm flows. All sediment control measures shall be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage shall be reinstated to its original condition when the construction work is finished or the temporary diversion is no longer 							

³ CEDD will identify an implementation agent.

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- Sampling, Field Measurement and Testing Works (Stage 3)

Implementation Location / Implementation Relevant Legislation Stages* EIA Ref **Environmental Protection Measures / Mitigation Measures** Timing and Guidelines Agent Des С 0 Dec required. All fuel tanks and store areas shall be provided with locks and be sited . on sealed areas, within bunds of a capacity equal to 110% of the storage capacity. Minimum distances of 100 m shall be maintained between the storm water discharges and the existing or planned WSD flushing water intakes during construction phase. ProPECC PN 1/94; S5.8 Sewage from Construction Work Force Work site / Contractor V During the WPCO (TM-DSS) Construction work force sewage discharges on site shall be connected to the construction existing trunk sewer or sewage treatment facilities. The construction sewage period 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. S5.8 Floating Debris and Refuse WPCO Work site and Contractor λ adjacent water Collection and removal of floating refuse shall be performed at regular intervals on a daily basis. The contractor shall be responsible for keeping the / During the construction water within the site boundary and the neighbouring water free from rubbish. period.

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 3)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	Implementation Stages*				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	V			WPCO
Operation	Phase							
	B (within the Project Boundary)							
S5.8	 For the operation of CWB, a surface water drainage system would be provided to collect road runoff. The following operation stage mitigation measures are recommended to ensure road runoff would comply with the TM under the WPCO: The drainage from tunnel sections shall be directed through petrol interceptors to remove oil and grease before being discharged to the nearby foul water manholes. 	CWB/During design and operational period	HyD/TD ³	V		V		WPCO
	 Petrol interceptors shall be regularly cleaned and maintained in good working condition. 							
	Oily contents of the petrol interceptors shall be properly handled and disposed of, in compliance with the requirements of the Waste Disposal Ordinance.							
	• Sewage arising from ancillary facilities of CWB (for examples, car park,							

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- Sampling, Field Measurement and Testing Works (Stage 3)

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

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

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

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 3)

Table A13.4 Implementation Schedule for Waste Management

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Ir	nplem Sta	entati ges*	on	Relevant Legislation
	Zarra omnenna i i otecnoù ricuoù co / ringanoù ricuoù co	Location / Timing	Agent	Des	С	0	Dec	and Guidelines
Construction	on Phase							
For DP3 –	Reclamation Works							
	Marine Sediments	Work site / During the construction period	Contractor		V			ETWB TCW No. 34/2002
S6.7.2	The dredged marine sediments would be loaded onto barges, transported to and disposed of at the designated disposal sites at South of Cheung Chau, East of Ninepin, East of Tung Lung Chau, South of Tsing Yi or East of Sha Chau to be allocated by the MFC depending on their level of contamination or at other disposal sites after consultation with the MFC and EPD. In accordance with the ETWB TCW No. 34/2002, the contaminated material must be dredged and transported with great care. The mitigation measures recommended in Section 5 of the EIA Report shall be incorporated. The dredged contaminated sediment must be effectively isolated from the environment upon final disposal and shall be disposed of at the Type 2 confined marine disposal contaminated mud pit.							
\$6.7.3	Based on the biological screening results, the Category H (>10xLCEL) sediment which failed the biological testing would require Type 3 special disposal. The volume of Category H sediment from the Causeway Bay typhoon shelter which would require special disposal arrangements is estimated to be approximately 0.05 Mm ³ . A feasible containment method is proposed whereby the dredged sediments are sealed in geosynthetic containers and, at the disposal site, the containers would be dropped into the designated contaminated mud pit where they would be covered by further mud disposal and later by the mud pit capping, thereby meeting the requirements for fully confined mud disposal.							

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

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 3)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	Relevant Legislation	
		Location, Thing	Agent	Des	С	0	Dec	and Guidelines
	 Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the DEP. Barges or hopper barges shall not be filled to a level that would cause the overflow of materials or sediment laden water during loading or transportation. 							
\$6.6.12	<i>Floating Refuse</i> During the construction phase, the project proponent's contractor will be responsible for the collection of any refuse within their works area. Floating booms will be provided on the water surface to confine the refuse from the working barges as well as to avoid the accumulation of pollutants within temporary embayment as mentioned in Table 13.3.	Work site / During the construction period	Contractor		~			

For the Whole Project

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

Wan Chai Development Phase II and Central-Wanchai Bypass

- Sampling, Field Measurement and Testing Works (Stage 3)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In		entati ges*	ion	Relevant Legislation
2007 1007	Zarra olimentari i roteculori ricabar es / ricagariori ricabar es	Liocution / Timing	Agent	Des	С	0	Dec	and Guidelines
\$6.7.8	 Waste Reduction Measures 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: 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; 	Work site / During planning and design stage, and construction stage	Contractor	V	V			
	 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; 							
	• any unused chemicals or those with remaining functional capacity shall be recycled;							
	• use of reusable non-timber formwork, such as in casting the tunnel box sections, to reduce the amount of C&D material.							
	 prior to disposal of C&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; 							
	• proper storage and site practices to minimise the potential for damage or contamination of construction materials; and							
	 plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. 							

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	on	Relevant Legislation
	g		Agent	Des	С	0	Dec	and Guidelines
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)
\$6.7.11	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		V			ETWB TCW No. 33/2002, 31/2004, 19/2005

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- Sampling, Field Measurement and Testing Works (Stage 3)

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	In	nplem Sta	entati ges*	Relevant Legislatio	
LIII KU	Environmental Protection Measures / Mitagation Measures	Location / Thing	Agent	Des	С	0	Dec	and Guidelines
S6.7.13	In order to monitor the disposal of public fill and C&D waste at public filling facilities and landfills, respectively, and to control fly tipping, a trip-ticket system shall be included as one of the contractual requirements and implemented by the Environmental Team undertaking the environmental monitoring and audit work. An Independent Environment Checker shall be responsible for auditing the results of the system.	Work site / During the construction period	Contractor and Independent Environmental Checker		V			ETWB TCW No. 31/2004
\$6.7.14	 Bentonite Slurry The disposal of residual used bentonite slurry shall follow the good practice guidelines stated in ProPECC PN 1/94 "Construction Site Drainage" and listed as follows: If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis. If the used bentonite slurry is intended to be disposed of through the public drainage system, it shall be treated to 	Work site / During the construction period	Contractor		V			ProPECC PN 1/94
	 the respective effluent standards applicable to foul severs, storm drains or the receiving waters as set out in the Technical Memorandum of Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters. If the used bentonite slurry is intended to be disposed to public fill reception facilities, it will be mixed with dry soil on site before disposal. 							

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

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Table A13.5 Implementation Schedule for Land Contamination

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

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

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

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- Sampling, Field Measurement and Testing Works (Stage 3)

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

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

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Table A13.6 Implementation Schedule for Marine Ecology

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

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- Sampling, Field Measurement and Testing Works (Stage 3)

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

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- Sampling, Field Measurement and Testing Works (Stage 3)

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementati Stages*			on	Relevant Legislation	
			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: 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. 	Work site / during construction phase	Contractor		V			EIAO TM Annex 16 (Section 8.4) & EIAO Guidance Note No. 3/2002.	
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

- Sampling, Field Measurement and Testing Works (Stage 3)

Table A13.7 Implementation Schedule for Landscape and Visual

EIA Ref	Envir	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Ir		entati ges*	ion	Relevant Legislatio and Guidelines
				0	Des	С	0	Dec	
Construction	Phase								
For the Whole	Project								
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 DP1 - CV	WB (With	in the Project Boundary)							
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			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		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

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EIA Ref	Envir	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Stages*				Relevant Legislation and Guidelines
				_	Des	С	0	Dec	
Table 10.5	CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor		V			EIAO TM
For DP2 - WD	II Majo	r Roads (Road P2)							
Table 10.5	CM1	Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM2	Existing trees to be retained on site shall be carefully protected during construction.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM3	Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM4	Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	V	V			EIAO TM
Table 10.5	CM5	Control of night-time lighting.	Work site / During Construction Phase	Contractor		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 - War	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

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EIA Ref	Envir	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent		Sta	entati ges*		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
For DP6 - Cros	s-Harb	our Water Mains from Wan Chai to Tsim Sha Tsui		1	1			1	
Refer to EIA- 058/2001 Table 10.13		Minimisation of works areas.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM3	Erection of decorative hoardings.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM4	Control night-time lighting.	Work site / During Construction Phase	Contractor		V			EIAO TM
Refer to EIA- 058/2001 Table 10.13	CM5	Minimisation of disruption to public by effective programming of the works.	Work site / During Construction Phase	Contractor		V			EIAO TM
Operation Pha	se								
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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EIA Ref **Environmental Protection Measures / Mitigation Measures** Location / Timing Implementation Implementation **Relevant Legislation** Stages* and Guidelines Agent Des С 0 Dec Table 10.6. OM3 Buffer Tree and Shrub Planting to screen proposed roads Work site / During CEDD/HyD/ ETWB TCW 2/2004 ٦l 1 Figure 10.5.1and associated structures. Design Stage and 10.5.5 Operation Phases Table 10.6, Figure 10.5.1-Work site / During ETWB TCW 2/2004 OM4 Aesthetic design of proposed waterfront promenade. $CEDD^4$ $\sqrt{}$ V $\sqrt{}$ Design Stage and 10.5.5 Operation Phases ETWB TCW 2/2004 Table 10.6, OM5 Aesthetic streetscape design. Work site / During CEDD/HyD $\sqrt{}$ V $\sqrt{}$ Figure 10.5.1-Design Stage and 10 5 5 Operation Phases Table 10.6, Aesthetic design of roadside amenity areas. CEDD/HyD ETWB TCW 2/2004 OM6 Work site / During $\sqrt{}$ V $\sqrt{}$ Figure 10.5.1-Design Stage and 10.5.5 **Operation Phases** For DP1 – CWB (Within the Project Boundary) ETWB TCW 2/2004 Table 10.6. OM1 Aesthetic design of buildings and road-related structures, Work site / During HyD $\sqrt{}$ V $\sqrt{}$ Figure 10.5.1including viaducts, vent buildings, subways, footbridges Design Stage and 10.5.5 and noise barriers and enclosure Operation Phases ETWB TCW 2/2004 Table 10.6. OM2 Shrub and Climbing Plants to soften proposed structures Work site / During HyD $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ Figure 10.5.1 Design Stage and 10.5.5 Operation Phases Buffer Tree and Shrub Planting to screen proposed roads ETWB TCW 2/2004 Table 10.6. OM3 HyD Work site / During $\sqrt{}$ V $\sqrt{}$ Figure 10.5.1-10.5.5 and associated structures. Design Stage and Operation Phases OM5 ETWB TCW 2/2004 HyD Table 10.6 Aesthetic streetscape design. Work site / During V V $\sqrt{}$ Figure 10.5.1 Design Stage and 10.5.5 **Operation Phases** ETWB TCW 2/2004 Table 10.6. OM6 Aesthetic design of roadside amenity areas. Work site / During HyD $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ Figure 10.5.1-Design Stage and Operation Phases 10.5.5 For DP2 - WDII Major Roads (Road P2)

⁴ CEDD will identify an implementation agent

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EIA Ref	Envire	onmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	In	Implementation Stages*			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 - Rec									
Table 10.6, Figure 10.5.1- 10.5.5	OM4	Aesthetic design of proposed waterfront promenade.	Work site / During Design Stage and Operation Phases	CEDD ⁵	V	V	V		ETWB TCW 2/2004

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

 5 CEDD will identify an implementation agent

Appendix 3.1



Appendix 4.1

Action and Limit Level



Lam Geotechnics Limited

Action and Limit Level

Action and Limit Level for Noise Monitoring

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

Note 1:

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

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

Action and Limit Level for Air Quality Monitoring

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

Action and Limit Level for Water Quality Monitoring

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

Remarks:

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

Action and Limit Level for Enhance DO Monitoring

Parameters	Depth	Dry S	Season	Wet Season		
Parameters		Action	Limit	Action	Limit	
C6	Surface and Middle	3.13	2.00	2.60	2.00	
0	Bottom	4.14	3.33	2.91	2.34	
C7	Surface and Middle	3.87	3.09	3.31	2.57	
07	Bottom	3.91	3.53	2.75	2.48	
Ex-WPCWA SW	Surface and Middle	3.84	3.73	3.19	3.10	
EX-WEGWA SW	Bottom	4.71	4.63	3.31	3.25	
	Surface and Middle	4.26	3.61	3.55	3.00	
Ex-WPCWA SE	Bottom	5.36	5.35	3.76	3.76	

Action and Limit Levels for Odour Patrol

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



Appendix 4.2

Copies of Calibration Certificates

15	50	21-			6		D	ALIBRATION
_		_	-				Janua	ary 24, 201
nvir	onm	ent	al					
	Ce	rtifa	cate of		Cal	ibri	ntion	
			Calibration (Certificatio	n Informat	ion		
Cal. Date:	January 24	2018	Rootsr	neter S/N: 4	138320	Tav	293	°К
Operator:	Jim Tisch	11221			100020			10.202
a Sameran		10.00 UNIV.52.00		10 SP231 - 1		Pa:	756.9	mm Hg
Calibration	Model #:	TE-5025A	Calib	rator S/N:	3166			
		Vol. Init	Vol. Final	ΔVol.	ATIMA	40		1
	Run	(m3)	(m3)		ΔTime	ΔP	ΔH ('- 1120)	
	1	1	2	(m3)	(min) 1.4430	(mm Hg)	(in H2O)	-
	2	3	4	1	1.0270	3.2	2.00	-
	3	5	6	1	0.9220	7.9	5.00	· · ·
	4	7	8	1	0.8780	8.7	5.50	
	5	9	10	1	0.7270	12.6	8.00	
		-1		-1		12.0	0.00	1
	L		D	ata Tabulat	ion			
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$	(Tstd) Ta		Qa	√∆H(та/Ра)	
	(m3)	(x-axis)	(y-axi	s)	Va	(x-axis)	(y-axis)	
	1.0087	0.6990	1.423	3	0.9958	0.6901	0.8799	
	1.0044	0.9780	2.012	9	0.9915	0.9655	1.2443	
	1.0024	1.0872	2.250	5	0.9896	1.0733	1.3912	
	1.0013	1.1404	2.360	3	0.9885	1.1259	1.4591	
	0.9961	1.3701	2.846		0.9834	1.3526	1.7598	
		m=	2.122	and the second se		m=	1.32895	
	QSTD	b=	-0.060		QA [b=	-0.03719	
		r=	0.9999	99		r=	0.99999	
		1		Calculation	s			
	Vstd=	ΔVol((Pa-ΔP)	/Pstd)(Tstd/Ta	 		∆Vol((Pa-∆F	P)/Pa)	
		/std/∆Time			and the second se	Va/ATime	A	
			For subseque	ent flow rate		And the second second		
		// []	Contraction of the local data			11 -	<u> </u>	
	Qstd=	1/m((√∆H(-	Pa (Tstd Pstd (Ta)-b)	Qa=	1/m((√∆H	(Ta/Pa))-b)	
	Standard	Conditions		//		11.	11	
Tstd:		Conditions		Ē			IDDATION	
Pstd:		nm Hg		-		RECAL	IBRATION	
· ord.	- Andrewski - A	ey			US EPA reco	mmends ar	nual recalibratio	on per 1998
ΔH: calibrate		er reading (ir	1 H2O)				egulations Part 5	
ΔP: rootsme	ter manome	ter reading (Reference Meth	
		erature (°K)					ended Particulate	
Pa: actual ba	arometric pr	essure (mm l	(g)					Contraction of the second s
b: intercept		the second for the second	-07		the	Atmosphe	re, 9.2.17, page 3	30 1

Tisch Environmental, Inc. 145 South Miami Avenue



Calibration Data for High Volume Sampler (TSP Sampler)

Location	:	CMA1b	Calibration Date	4	28-Jun-18
Equipment no.	:	HVS001	Calibration Due Date	4	28-Aug-18

CALIBRATION OF CONTINUOUS FLOW RECORDER

				Ambient C	Condition				
Temperature, T _a		302	2	Kelvin	Kelvin Pressure, Pa		1010		mmHg
	10.0		Orifice	Transfer Sta	ndard Informat	ion			
Equipment No.		Ori002	pi ji	Slope, m _c	2.12231		Intercept, bc	2] 0	-0.06016
Last Calibration Date	Last Calibration Date 19-Jan-18				(Hx	P . / 101	3.3 x 298 /	Ta) 1/2	
Next Calibration Date		19-Jan-1	9			m _c x (Q _{std} + b _c		
		15		Calibratio	n of TSP				
Calibration Point	н(nometer R	water)	(m ³ /	std / min.)		der, W	1 132 - 21 273 0410	IC 3x298/T ₄) ¹² /35.31)
	(up)	(down) 1.5	(difference) 3.0	20,2	375	2	FM)	-	/-axis
1	1.5	2.2		1972				2000 1000	3.7938
2	2.2	0.5004-0	4.4		082	3	20 V		0.7337
3	3.5	3.5	7.0	1.2	643	4	2	4	1.6392
4	4.7	4.7	9.4	1.4	606	4	7	46	3.5962
5	5.8	5.8	11.6	1.6	194	5	4	53	3.5361
By Linear Regression of Y o Correlation Co Calibration	Slope, m cefficient*	-		1025 972 Ne**	Inter	cept, b =	-7	.0435	

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Remarks : As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been

<u>re-as</u>	signed from	EL452 to HVS001 with respect to the u	pdate in quality management system.		
Calibrated by	1	Natalie Lau	Checked by	1	Pauline Wong
Date	-	28-Jun-18	Date		28-Jun-18



Location	:	CMA1b	Calibration Date	:	23-Aug-18
Equipment no.	:	HVS001	Calibration Due Date	:	23-Oct-18

CALIBRATION OF CONTINUOUS FLOW RECORDER

				Ambient C	Condition			
Temperature, T _a		300.7	7	Kelvin	Pressure, P _a	3	10	011 mmHg
			Orifice	Transfer Sta	andard Inform	ation		
Equipment No.		Ori002			2.122	31	Intercept, bc	-0.06016
Last Calibration Date		19-Jan-18	8		(H	x P _a / 10)13.3 x 298 / 1	a) ^{1/2}
Next Calibration Date		19-Jan-19	9			m _c	x Q _{std} + b _c	
Calibration of TSP								
Calibration	Manometer Reading		Q	l _{std}	Conti	nuous Flow	IC	
Point	н ((inches of water)		(m ³ / min.)		Ree	corder, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X -:	axis		(CFM)	Y-axis
1	1.5	1.5	3.0	0.8	3397		24	23.8602
2	2.5	2.5	5.0	1.0	0758		32	31.8135
3	3.9	3.9	7.8	1.3	3366		42	41.7553
4	5.0	5.0	10.0	1.5	5097		48	47.7203
5	6.1	6.1	12.2	1.6	6645		53	52.6912
By Linear Regression of Y o	on X							
	Slope, m	=	35.	.3840		tercept, b =	-5.9	9099
Correlation Co	oefficient*	=	0.9	9996	_			
Calibration	Accepted	=	Yes	s/ No **	-			
					-			

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

<u>re-ass</u>	signed from	n EL452 to HVS001 with re			
Calibrated by	:	Ray Lee	Checked by	:	Pauline Wong
Date	:	23-Aug-18	Date	:	23-Aug-18



Location	:	CMA2a	Calibration Date	:	28-Jun-18
Equipment no.	1	HVS002	Calibration Due Date	:	28-Aug-18

CALIBRATION OF CONTINUOUS FLOW RECORDER

				Ambient Co	ondition				
Temperature, T _a		302.2		Kelvin I	Pressure, P _a		1010	mmHg	
			Orifice	Transfer Stan	dard Information				
Equipment No.		Ori002		Slope, me	2.12231	Intercept, b	c	-0.06016	
Last Calibration Date		19-Jan-18			(HxP	P _a / 1013.3 x 298	/T _a) ^{1/2}		
Next Calibration Date	9 19-Jan-19				$m_c \times Q_{std} + b_c$				
				Calibration	of TSP				
Calibration	Mar	Manometer Reading		Q std		Continuous Flow		IC	
Point H		H (inches of water)		(m ³ / r	min.)	Recorder, W	(W(P_/10	013.3x298/T_) ^{1/2} /35.31)	
	(up)	(down)	(difference)	X-ax	kis	(CFM)		Y-axis	
1	1.3	1.3	2.6	0.78	16	25		24.7852	
2	2.3	2.3	4.6	1.03	102	32		31.7251	
3	3.5	3.5	7.0	1.26	43	43		42.6306	
4	4.8	4.8	9.6	1.47	57	50		49.5704	
5	6.1	6.1	12.2	1.66	00	56		55.5189	
By Linear Regression of Y o	n X								
	Slope, m	=	36.0	376	Intercer	pt, b = -	3.9257		
Correlation Co	pefficient*	=	0.9	971		-			
Calibration	Accepted	=	Yes/	No**					

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

	EL449 to HVS002 with respect to the up			
Calibrated by	Natalie Lau	Checked by	3	Pualine Wong
Date	28-Jun-18	Date		28-Jun-18



Location	:	CMA2a	Calibration Date	:	23-Aug-18
Equipment no.	:	HVS002	Calibration Due Date	:	23-Oct-18

CALIBRATION OF CONTINUOUS FLOW RECORDER

				Ambient C	Condition				
Temperature, T _a		300.7	7	Kelvin	Pressure, P _a	1	10)11 mmHg	
			Orifice	Transfer Sta	andard Informa	ation			
Equipment No.		Ori002			2.1223	31	Intercept, bc	-0.06016	
Last Calibration Date		19-Jan-18			(H	x P _a / 10	013.3 x 298 / T	a) ^{1/2}	
Next Calibration Date		19-Jan-19	9			m _c	x Q _{std} + b _c		
				Calibratio	n of TSP				
Calibration	Manometer Reading		Q	Q _{std}		nuous Flow	IC		
Point	н (H (inches of water)		(m ³ / min.) Reco		corder, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)		
	(up)	(down)	(difference)	X -7	axis		(CFM)	Y-axis	
1	1.6	1.6	3.2	0.8	8663	28		27.8368	
2	2.2	2.2	4.4	1.0	0110		35	34.7961	
3	3.7	3.7	7.4	1.3	3026		44	43.7436	
4	4.6	4.6	9.2	1.4	4492		51	50.7028	
5	5.9	5.9	11.8	1.6	6375		54	53.6854	
By Linear Regression of Y o	ın X								
	Slope, m	=	34.0	0314	Int	tercept, b =	-0.4	1992	
Correlation C	oefficient*	=	0.9	9914	_				
Calibration	Accepted	=	Yes	s/ No **	_				

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

re-ass	signed from	n EL449 to HVS002 with re	spect to the update in quality management system.		
Calibrated by	:	Ray Lee	Checked by	:	Pualine Wong
Date	:	23-Aug-18	Date	:	23-Aug-18



Location Equipment no. CMA3a HVS012

Calibration Date	1	27-
Calibration Due Date		27-

27-Jun-18 27-Aug-18

CALIBRATION OF CONTINUOUS FLOW RECORDER

				Ambient Con	tition				
Femperature, T _a	302.2			Kelvin Pr	essure, P _a		1010		
		-	Orlfice T	ransfer Standa	rd Information	1			
Equipment No.		Ori002	2	Slope, m _c	2.12231	Intercept, b	ic	-0.06016	
Last Calibration Date		19-Jan-18			(HxPa	/ 1013.3 x 298	/T a) 1/2	2	
Next Calibration Date	9 19-Jan-19			$m_c \times Q_{std} + b_c$					
				Calibration of	TSP				
Calibration Point		nometer F		Q _{std} (m ³ / m		Continuous Flow Recorder, W	(W(P_/10	IC	
	(up)	(down)	(difference)	X-axi	5	(CFM)		Y-axis	
1	1.3	1.3	2.6	0.781	6	30	29.7423		
2	2.2	2.2	4.4	1.008	2	37	36.6821		
3	3.4	3.4	6.8	1.246	5	44		43.6220	
4	4.4	4.4	8.8	1.414	1	49		48.5790	
5	5.5	5.5	11.0	1.577	7	54		53.5361	
y Linear Regression of Y	on X							222 DA 10 2000	
	Slope, m	=	29.7	703	Intercep	t, b =	6.5410		
Correlation Co	efficient*	=	1.00	000					
Calibration /	Accepted	=	Yes/	Nø**					

* If Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Remarks :	As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been	an

re-as	signed from	m EL333 to HVS012 with respect to the up	date in quality management system.		
Calibrated by	:	Natalie Lau	Checked by	;	Pauline Wong
Date	I	27-Jun-18	Date	:	27-Jun-18



Location Equipment no. CMA3a HVS012

Calibration Date	:
Calibration Due Date	:

35

41

47

52

Intercept, b =

23-Aug-18 23-Oct-18

34.7961

40.7611

46.7261

51.6970

3.2800

CALIBRATION OF CONTINUOUS FLOW RECORDER

				Ambient Con	dition				
Temperature, T _a		300.7	7	Kelvin Pressure, P a 1011 mm				mmHg	
			Orifice T	ransfer Stand	ard Informa	ition			
Equipment No.		Ori002		Slope, m _c	2.1223	31	Intercept, bc	-0.06	016
Last Calibration Date	19-Jan-18			(H x P _a / 1013.3 x 298 / T _a) ^{1/2}					
Next Calibration Date	19-Jan-19		$m_{c} \times Q_{std} + b_{c}$						
				Calibration of	of TSP				
Calibration	Mai	nometer Re	eading	Q s	d	Continue	ous Flow	IC	
Point	н (inches of v	vater)	(m ³ / n	nin.)	Recor	der, W	(W(P _a /1013.3x298/	(T _a) ^{1/2} /35.31
	(up)	(down)	(difference)	X-ax	is	(CF	FM)	Y-axis	6
1	1.3	1.3	2.6	0.78	37	2	8	27.836	8

1.0330

1.2134

1.3860

1.5678

* if Correlation Coefficient < 0.990, check and recalibration again.

2.3

3.2

4.2

5.4

Slope, m

2.3

3.2

4.2

5.4

=

=

=

4.6

6.4

8.4

10.8

30.9858

0.9991

Yes/No**

Correlation Coefficient*

Calibration Accepted

** Delete as appropriate.

2

3

4

5

By Linear Regression of Y on X

Remarks : As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been

re-assigned from EL333 to HVS012 with respect to the update in quality management system.

Calibrated by	:	Ray Lee	Checked by :	 Pauline Wong
Date	:	23-Aug-18	Date :	 23-Aug-18



Location Equipment no. CMA4a HVS004 Calibration Date Calibration Due Date 27-Jun-18 27-Aug-18

CALIBRATION OF CONTINUOUS FLOW RECORDER

	the Allowand State	Ambient (Condition		
Temperature, T _a	302.2	Kelvin	Kelvin Pressure, Pa 1010		mmHg
	0	rifice Transfer St	andard Information		1
Equipment No.	Ori002	Slope, m _c	2.12231	Intercept, bc	-0.06016
Last Calibration Date	19-Jan-18		(HxPa)	1013.3 x 298 / T _a)	1/2
Next Calibration Date	19-Jan-19		n	$n_c \times Q_{std} + b_c$	

Calibration	Mar	ometer R	eading	Q std	Contin	uous Flow	IC
Point		inches of (down)	1000	(m ³ /min.) X-axis	Rec	order, W CFM)	(W(P ₂ /1013.3x298/T ₂) ^{1/2} /35.31 Y-axis
1	1.3	1.3	2.6	0.7816		20	19.8282
2	2.2	2.2	4.4	1.0082		30	29.7423
3	3.6	3.6	7.2	1.2818		40	39,6563
4	4.8	4.8	9.6	1.4757		46	45.6048
5	6.0	6.0	12.0	1.6466		56	55.5189
y Linear Regression of	Y on X						19 5 - 1
	Slope, m	=	39.52	284	Intercept, b =	-1	0.8967
Correlation	Coefficient*	=	0.99	62			
Calibratio	n Accepted	=	Yes/A	lo**			

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

10-02	aigneu nui	TELSE IN THOUSE WATTESPECT IN THE	update in quality management system.		
Calibrated by	\$	Natalle Lau	Checked by	:	Pauline Wong
Date	020	27-Jun-18	Date		27-Jun-18



Location Equipment no.

CMA4a HVS004 **Calibration Date Calibration Due Date** 23-Aug-18 23-Oct-18

CALIBRATION OF CONTINUOUS FLOW RECORDER

Ambient Condition								
Temperature, T _a	300.7	Kelvin	Pressure, P _a	1011	mmHg			
Orifice Transfer Standard Information								
Equipment No.	Ori002	Slope, m _c	2.12231	Intercept, bc	-0.06016			
Last Calibration Date	19-Jan-18	$(H \times P_a / 1013.3 \times 298 / T_a)^{1/2}$						
Next Calibration Date	19-Jan-19	$m_{c} \times Q_{std} + b_{c}$						

				Calibration of TSP		
Calibration	Mai	nometer Re	eading	Q _{std}	Continuous Flow	IC
Point	Н (inches of v	water)	(m ³ / min.)	Recorder, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.3
	(up)	(down)	(difference)	X-axis	(CFM)	Y-axis
1	1.4	1.4	2.8	0.8122	22	21.8718
2	2.0	2.0	4.0	0.9652	29	28.8310
3	3.6	3.6	7.2	1.2853	42	41.7553
4	4.7	4.7	9.4	1.4646	48	47.7203
5	5.8	5.8	11.6	1.6238	54	53.6854
near Regression of	Y on X					
	Slope, m	=	38.9	9454 I	ntercept, b =	-9.1384
Correlation	Coefficient*	=	0.9	990		
Calibratic	n Accepted	=	Yes	/ No **		

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Remarks	
1/CILIAL NO	

As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been

<u>re-ass</u>	signed fror	m EL390 to HVS004 with	respect to the update in quality management system.		
Calibrated by	:	Ray Lee	Checked by	:	Pauline Wong
Date	:	23-Aug-18	Date	:	23-Aug-18

Date



Location Equipment no.

CMA5b HVS010

Calibration Date	
ounoration pate	- X
Calibration Due Date	+1
oundration but but	

27-Jun-18 27-Aug-18

CALIBRATION OF CONTINUOUS FLOW RECORDER

				Ambient C	and the second design of the			
Femperature, T _a	L	302	.2	Kelvin Pressure, Pa			1010 mmHg	
1000			Orifice	Transfer Sta	ndard Information	1100 A 1200		
Equipment No.		Ori002		Slope, me	2.12231	Intercept, bo	-0.06016	
Last Calibration Date		19-Jan-1	8		(HxPa	/1013.3 x 298	(Ta) 1/2	
Next Calibration Date		19-Jan-1	9		=	$m_c \times Q_{std} + b_c$	2014. 	
				Calibratio	n of TSP	a second		
Calibration	Mai	nometer R	eading	Q	std C	Continuous Flow	IC	
Point H (inches of	water)	(m ³)	min.)	Recorder, W	(W(P,/1013.3x298/T,) ¹² /35.3	
. onic						100000000000000000000000000000000000000	(11(1))1010.0020011() 100.0	
	(up)	(down)	(difference)	X-4	axis	(CFM)	Y-axis	
1	1.5	1.5	3.0	0.8	375	28	27.7594	
2	2.3	2.3	4.6	1.0	302	36	35.6907	
3	3.5	3.5	7.0	1.2	643	43	42.6306	
4	4.3	4.3	8.6	1.3	983	47	46.5962	
5	5.5	5.5	11.0	1.5	777	52	51.5532	
y Linear Regression of Y o	n X							
	Slope, m	=	31.7	389	Intercept,	b = 2	.0745	
Correlation Coefficient* = 0.99		968						
Calibration	Accepted	=	YesA	No**				
				2000				

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Remarks : As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been

re-assigned from EL222 to HVS010 with respect to the update in quality management system.

Calibrated by Date Natalie Lau 27-Jun-18 Checked by Date Pauline Wong 27-Jun-18



Location Equipment no. CMA5b HVS010

Calibration Date	
Calibration Due Date	

23-Aug-18 23-Oct-18

CALIBRATION OF CONTINUOUS FLOW RECORDER

				Ambient C							
Temperature, T _a		300.	7	Kelvin	Pressure, P _a		10)11 mmHg			
			Orifice	Transfer Star	ndard Informa	ation					
Equipment No.		Ori002		Slope, m _c	2.1223		Intercept, bc	-0.06016			
Last Calibration Date		19-Jan-1	8		(H	x P _a / 10)13.3 x 298 / 1	$(r_{a})^{1/2}$			
Next Calibration Date		19-Jan-1	9		=	m _c	x Q _{std} + b _c				
Calibration of TSP											
Calibration	Manometer Reading			Q	std	Conti	nuous Flow	IC			
Point	H (inches of water)		(m ³ /	min.)	Ree	corder, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.3	1)			
	(up)	(down)	(difference)	X-a	ixis		(CFM)	Y-axis			
1	1.5	1.5	3.0	0.8	397		34	33.8019			
2	2.1	2.1	4.2	0.9	884		40	39.7669			
3	3.4	3.4	6.8	1.2499		1.2499			48	47.7203	
4	4.4	4.4	8.8	1.4180		1.4180 54		53.6854			
5	5.6	5.6	11.2	1.5	960		59	58.6562			
By Linear Regression of Y o	n X										
	Slope, m	=	32.7	7067	Int	ercept, b =	6.8	3765			
Correlation C	oefficient*	=	0.9	988							
Calibration	Accepted	=	Yes	/ No **							

* if Correlation Coefficient < 0.990, check and recalibration again.

** Delete as appropriate.

Remarks : As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been

re-assigned from EL222 to HVS010 with respect to the update in quality management system.

Calibrated by Date Ray Lee 23-Aug-18 Checked by Date Pauline Wong 23-Aug-18



Location Equipment no. CMA6a HVS013

Calibration Date	:
Calibration Due Date	:

 27-Jun-18	
27-Aug-18	

CALIBRATION OF CONTINUOUS FLOW RECORDER

the second s				Ambient Con				
Femperature, T _a	302.2 Kelvin Pressure, Pa				1010 mmł			
			Orifice T	ransfer Standa	ard Information		Contraction Contraction	
Equipment No.		Ori002		Slope, m _c	2.12231	Intercept, bo	; -(.06016
Last Calibration Date		19-Jan-1	8		(HxPa	/ 1013.3 x 298 /	$(T_{a})^{1/2}$	
Next Calibration Date		19-Jan-1	9]	= /	$m_c \times Q_{std} + b_c$		
			1.76	Calibration o	f TSP			
Calibration	Manometer Reading		Q std	c	Continuous Flow		IC	
Point	Point H (inches of water)		(m ³ / mi	n)	Recorder, W	(W(P,/1013.3x	(W(P,/1013.3x298/T,) ¹² /35.3	
	1 0.042 1 0.042	10000000000000000000	153033351 1120933120000000000000000000000000000000	0.00000000			2012/2012/10/10/01	
	(up)	(down)	(difference)	X-axis	s	(CFM)	Y-	axis
1	1.6	1.6	3.2	0.864	D	30	29.	7423
2	2.6	2.6	5.2	1.093	5	38	37.	6735
3	3.4	3.4	6.8	1.246	5	44	43.6220	
4	4.9	4.9	9.8	1.490	1.4907		50 49.57	
5	5.8	5.8	11.6	1.619	4	57	56.	5103
By Linear Regression of Y or	ıх							
	Slope, m		34.0	385	Intercept,	b = 0	.4390	
Correlation C	oefficient*	-	0.99	952				
Calibration	Accepted	-	Yes/	No**				

* if Correlation Coefficient < 0.990, check and recalibration again.

1

** Delete as appropriate.

Remarks : As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been re-assigned from EL551 to HVS013 with respect to the update in quality management system.

Calibrated by Date Natalie Lau 27-Jun-18 Checked by Date Pauline Wong 27-Jun-18



Location Equipment no. CMA6a HVS013

Calibration Date	:	23
Calibration Due Date	:	23

23-Aug-18 23-Oct-18

CALIBRATION OF CONTINUOUS FLOW RECORDER

				Ambient C	ondition				
Temperature, T _a	300.7 Kelvin Pressure , P _a 1011					11 mmHg			
			Orifice T	ransfer Star	ndard Inform	nation			
Equipment No.		Ori002		Slope, m _c	2.1223		Intercept, bc	-0.06016	
Last Calibration Date		19-Jan-1	8		(H	x P _a / 1	013.3 x 298 / T	a) ^{1/2}	
Next Calibration Date		19-Jan-1	9		=	m _c	$x Q_{std} + b_{c}$		
Calibration of TSP									
Calibration	Mar	nometer Re	eading	Q	std	Cont	inuous Flow	IC	
Point	н (inches of v	water)	(m ³ /	min.)	Re	corder, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)	
	(up)	(down)	(difference)	X-a	axis		(CFM)	Y-axis	
1	1.5	1.5	3.0	0.8	397		32	31.8135	
2	2.3	2.3	4.6	1.0	330		39	38.7728	
3	3.3	3.3	6.6	1.2	318		44	43.7436	
4	4.4	4.4	8.8	1.4	180		50	49.7087	
5	4.9	4.9	9.8	1.4	948		54	53.6854	
By Linear Regression of Y o	n X								
	Slope, m	=	31.9	490	Int	ercept, b =	= 5.0	955	
Correlation C	oefficient*	=	0.99	965					
Calibration	Accepted	=	Yes/	No**					
				,					

* if Correlation Coefficient < 0.990, check and recalibration again.

:

:

** Delete as appropriate.

 Remarks :
 As per client's provided information, the equipment reference no. of the calibrated High Volume Sampler has been

 re-assigned from EL551 to HVS013 with respect to the update in quality management system.

Calibrated by Date Ray Lee 23-Aug-18 Checked by Date Pauline Wong 23-Aug-18

:



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Tel: (852) 2873 6860 Fax: (852) 2555 7533



CERTIFICATE OF CALIBRATION

Certificate No.:	18CA0322 01		Page	1	of 2	2
Item tested						
Description: Manufacturer: Type/Model No.: Serial/Equipment No.: Adaptors used:	Sound Level Meter (Larson Davis LxT1 0003737	Type 1)	Microphone PCB 377B02 171529 -			
Item submitted by						
Customer Name: Address of Customer: Request No.: Date of receipt:	Lam Geotechnics Lte - 22-Mar-2018	d.				
Date of test:	28-Mar-2018					
Reference equipment	used in the calibra	tion				
Description: Multi function sound calibrator Signal generator	Model: B&K 4226 DS 360	Serial No. 2288444 61227	Expiry Date: 08-Sep-2018 01-Apr-2018		Traceable (CIGISMEC CEPREI	to:
Ambient conditions						
Temperature:	21 ± 1 °C					

Test specifications

Relative humidity:

Air pressure:

- The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of +20%.
- The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

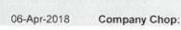
Actual Measurement data are documented on worksheets.

Approved Signatory:



50 ± 10 %

1005 ± 5 hPa





Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

Date:

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Form No CARP152-1/Issue 1/Rev C/01/02/2007

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2

CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

18CA0322 01

Page 2 of

1, Electrical Tests

The electrical tests were performed using an equivalent capacitance substituted for the microphone. The results are given in below with test status and the estimated uncertainties. The "Pass" means the result of the test is inside the tolerances stated in the test specifications. The "-" means the result of test is outside these tolerances.

Test:	Subtest:	Status:	Expanded Uncertanity (dB)	Coverage Factor
Self-generated noise	A	Pass	0.3	
(1) 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	c	Pass	0.8	2.1
	Lin	Pass	1.6	2.2
Linearity range for Leg	At reference range , Step 5 dB at 4 kHz	Pass	0.3	2.2
	Reference SPL on all other ranges	Pass	0.3	
	2 dB below upper limit of each range	Pass	0.3	
	2 dB above lower limit of each range	Pass	0.3	
Linearity range for SPL	At reference range , Step 5 dB at 4 kHz	Pass	0.3	
Frequency weightings	지수는 모양은 방법에 가지 않는 것 같은 것 같	Pass	0.3	
	AC	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
	Single Burst Slow	Pass	0.3	
Peak response	Single 100µs rectangular pulse	N/A	N/A	
R.M.S. accuracy	Crest factor of 3	Pass	0.3	
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3	
	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 ³ at 4kHz	Pass	0.3	
	1 ms burst duty factor 1/10 ⁴ at 4kHz	Pass	5-20 S	
Pulse range		50.00555	0.3	
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	Single burst 10 ms at 4 kHz	Pass	0.4	
Overload indication	SPL	Pass	0.3	
	Leq	Pass	0.4	

2, Acoustic tests

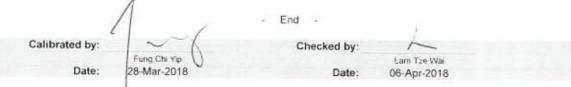
The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

Test:	Subtest	Status	Expanded Uncertanity (dB)	Coverage Factor
Acoustic response	Weighting A at 125 Hz Weighting A at 8000 Hz	Pass Pass	0.3 0.5	

Response to associated sound calibrator

N/A

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.



The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

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Form No CARP 152-2/lissue 1/Rev C/01/02/2007

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12/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong, E-mail: smec@cigismec.com Website: www.cigismec.com

Tel: (852) 2873 6860 Fax: (852) 2555 7533



CERTIFICATE OF CALIBRATION

Certificate No.:	17CA1110 02	Page:	1	of	2	
Item tested						
Description: Manufacturer: Type/Model No. Serial/Equipment No.: Adaptors used:	Acoustical Calibrator (Class 1) Rion Co., Ltd. NC-73 10707358					
Item submitted by Curstomer.	Lam Geotechnics Ltd					
Address of Customer: Request No	5					

Curstomer.	Lam Geotechnics Ltd.
Address of Customer:	
Request No :	-
Date of receipt:	10-Nov-2017

Date of test: 14-Nov-2017

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2341427	11-Apr-2018	SCL
Preamplifier	B&K 2673	2239857	05-May-2018	CEPREI
Measuring amplifier	B&K 2610	2346941	03-May-2018	CEPREI
Signal generator	DS 360	61227	01-Apr-2018	CEPREI
Digital multi-meter	34401A	US36087050	25-Apr-2018	CEPREI
Audio analyzer	8903B	GB41300350	21-Apr-2018	CEPREI
Universal counter	53132A	MY40003662	22-Apr-2018	CEPREI

Ambient conditions

21 ± 1 °C
50 ± 10 %
1010 ± 5 hPa

Test specifications

- 1. The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.
- 2. The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
- The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference 3, pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

Test results

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942. 1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.

Details of the performed measurements are presented on page 2 of this certificate.

Approved Signatory:

Huang Jis H/Feng Jun Q

Date: 15-Nov-2017 Company Chop:



Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

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Form No. CARP 156-1/Issue 1/Rev D/01/03/2007

Hong Kong Accreditation Service (HKAS) has accredited this laboratory (Reg. No. HOKLAS 028 - CAL) under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific calibration activities as listed in the HOKLAS Directory of Accredited Laboratories. The results shown in this certificate were determined by this laboratory in accordance with its terms of accreditation. Such terms of accreditation stipulate that the results shall be traceable to the International System of Units (S.I.) or recognised measurement standards. This certificate shall not be reproduced except in full.



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CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

17CA1110 02

Page: of

2

1. Measured Sound Pressure Level

The output Sound Pressure Level in the calibrator head was measured at the setting and frequency shown using a calibrated laboratory standard microphone and insert voltage technique. The results are given in below with the estimated uncertainties

Frequency Shown Hz	Output Sound Pressure Level Setting dB	Measured Output Sound Pressure Level dB	(Output level in dB re 20 µPa) Estimated Expanded Uncertainty dB
1000	94.00	93.93	0.10

Sound Pressure Level Stability - Short Term Fluctuations 2,

The Short Term Fluctuations was determined by measuring the maximum and minimum of the fast weighted DC output of the B&K 2610 measuring amplifier over a 20 second time interval as required in the standard. The Short Term Fluctuation was found to be:

At 1000 Hz	STF = 0.008 dB
Estimated expanded uncertainty	0 005 dB

3. Actual Output Frequency

The determination of actual output frequency was made using a B&K 4180 microphone together with a B&K 2673 preamplifier connected to a B&K 2610 measuring amplifier. The AC output of the B&K 2610 was taken to an universal counter which was used to determine the frequency averaged over 20 second of operation as required by the standard. The actual output frequency at 1 KHz was:

At 1000 Hz	Actual Frequency = 991.5 Hz	
Estimated expanded uncertainty	0.1 Hz	Coverage factor k = 2.2

4. **Total Noise and Distortion**

For the Total Noise and Distortion measurement, the unfiltered AC output of the B&K 2610 measuring amplifier was connected to an Agilent Type 8903 B distortion analyser. The TND result at 1 KHz was:

At 1000 Hz	TND = 0.3 %
Estimated expanded uncertainty	0.7 %

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.



The standard(s) and equipment used in the calibration are traceable to national or International recognised standards and are calibrated on a schedule to maintain the required accuracy level.

- 674	SALE	2.	Materials	Engineering	Course of	1.00
1990	2015	-64	MPROVIDERS	Cultureeurd	: GAR.	

Form No CARP156-2/Issue 1/Rev.C/01/05/2005

Hong Kong Accreditation Service (HKAS) has accredited this laboratory (Reg. No. HOKLAS 028 - CAL) under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific calibration activities as listed in the HOKLAS Directory of Accredited Laboratories. The results shown in this certificate were determined by this laboratory in accordance with its terms of accreditation. Such terms of accreditation stipulate that the results shall be traceable to the International System of Units (S.I.) or recognised measurement standards. This certificate shall not be reproduced except in full.



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CERTIFICATE OF CALIBRATION

Website: www.cigismec.com

Certificate No.:	18CA0309 02	Page: 1	of	2	
Item tested					
Description:	Acoustical Calibrator (Class 1)				
Manufacturer:	Larson Davis				
Type/Model No.:	CAL200				
Serial/Equipment No.:	13098				
Adaptors used:	5				
Item submitted by					
Curstomer:	Lam Environmental Service Ltd.				
Address of Customer:	-				
Request No.:					
Date of receipt:	09-Mar-2018				
Date of test:	12-Mar-2018				

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2341427	11-Apr-2018	SCL
Preamplifier	B&K 2673	2239857	05-May-2018	CEPREI
Measuring amplifier	B&K 2610	2346941	03-May-2018	CEPREI
Signal generator	DS 360	61227	01-Apr-2018	CEPREI
Digital multi-meter	34401A	US36087050	25-Apr-2018	CEPREI
Audio analyzer	8903B	GB41300350	21-Apr-2018	CEPREI
Universal counter	53132A	MY40003662	22-Apr-2018	CEPREI

Ambient conditions

Temperature:	21 ± 1 °C
Relative humidity:	50 ± 10 %
Air pressure:	1000 ± 5 hPa

Test specifications

- The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.
- The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
- The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

Test results

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942 (1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.

Details of the performed measurements are presented on page 2 of this certificate.



Approved Signatory:

n Fenal Jun O

12-Mar-2018 Company Chop:

Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long term stability of the instrument.

Date:

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Form No. CARP155-1/Issue 1/Rev. 0/01/03/2007

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12/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong, E-mail: smec@cigismec.com Website: www.cigismec.com Tel: (852) 2873 6860 Fax: (852) 2555 7533



CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

18CA0309 02

Page: 2 of 2

1, Measured Sound Pressure Level

The output Sound Pressure Level in the calibrator head was measured at the setting and frequency shown using a calibrated laboratory standard microphone and insert voltage technique. The results are given in below with the estimated uncertainties.

			(Output level in dB re 20 µPa
Frequency Shown Hz	Output Sound Pressure Level Setting dB	Measured Output Sound Pressure Level dB	Estimated Expanded Uncertainty dB
1000	94.0	93.81	0.10

2, Sound Pressure Level Stability - Short Term Fluctuations

The Short Term Fluctuations was determined by measuring the maximum and minimum of the fast weighted DC output of the B&K 2610 measuring amplifier over a 20 second time interval as required in the standard. The Short Term Fluctuation was found to be

At 1000 Hz	STF = 0.011 dB
Estimated expanded uncertainty	0.005 dB

3, Actual Output Frequency

The determination of actual output frequency was made using a B&K 4180 microphone together with a B&K 2673 preamplifier connected to a B&K 2610 measuring amplifier. The AC output of the B&K 2610 was taken to an universal counter which was used to determine the frequency averaged over 20 second of operation as required by the standard. The actual output frequency at 1 KHz was:

At 1000 Hz	Actual Frequency = 1000.0 Hz	
Estimated expanded uncertainty	0.1 Hz	Coverage factor k = 2 2

4, Total Noise and Distortion

For the Total Noise and Distortion measurement, the unfiltered AC output of the B&K 2610 measuring amplifier was connected to an Agilent Type 8903 B distortion analyser. The TND result at 1 KHz was:

At 1000 Hz	TND = 0.6 %
Estimated expanded uncertainty	0.7 %

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

	4	- End -		
Calibrated by:	1~~(Checked by:	F	
Date:	Fung Chi Yip 12-Mar-2018	Date:	Lam Tze Wai 12-Mar-2018	

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

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REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Information supplie	ed by customer:	
CONTACT:	MR. SAM LAM	WORK ORDER: HK1810527
CLIENT:	LAM GEOTECHNICS I	IMITED
DATE RECEIVED	31/05/2018	
DATE OF ISSUE:	04/06/2018	
ADDRESS:	11/F, CENTRE POINT, 1	81-185, GLOUCESTER ROAD,
	WANCHAI, HONG KON	NG
PROJECT:		

METHOD OF PERFORMANCE CHECK/ CALIBRATION: Ref: APHA22nd ed 2130B

COMMENTS

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity	
Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1403009	
Equipment No.:		
Date of Calibration:	1/6/2018	

Remarks:

This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Approved Signatory:

Ms. Wong Po Yan, Pauline Assistant Laboratory Manager Issue Date:

04/06/2018

Page 2/2



REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

WORK ORDER: HK1810527 DATE OF ISSUE: 04/06/2018 CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	_
Model No.:	WGZ-3B	
Serial No.:	1403009	
Equipment No.:		
Date of Calibration:	1/6/2018	
Date of next Calibation:	1/9/2018	

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance	
0	0.00		
4	3.82	-4.5%	
10	9.99	-0.1%	
40	37.7	-5.7%	
100	100	0.0%	
400	414	3.5%	
1000	926	-7.4%	
	Tolerance Limit (±)	10%	

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.



REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

Information supplie	d by customer:	
CONTACT:	MR. SAM LAM	WORK ORDER: HK1810676
CLIENT:	LAM GEOTECHNICS I	IMITED
DATE RECEIVED:	10/07/2018	
DATE OF ISSUE:	12/07/2018	
ADDRESS:	11/F, CENTRE POINT,	181-185, GLOUCESTER ROAD,
	WANCHAI, HONG KO	NG
PROJECT:		

METHOD OF PERFORMANCE CHECK/ CALIBRATION: Ref: APHA22nd ed 2130B

COMMENTS

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity	
Equipment Type:	Turbidity Meter	
Brand Name:	PCE Instruments	
Model No.:	PCE-TUM 20	
Serial No.:	Q942542	
Equipment No.:		
Date of Calibration:	11/07/2018	

Remarks:

This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

Approved Signatory:

Ms. Wong Po Yan, Pauline Assistant Laboratory Manager Issue Date:

12/07/2018





REPORT OF EQUIPMENT PERFORMANCE CHECK / CALIBRATION

WORK ORDER:	HK1810676
DATE OF ISSUE:	12/07/2018
CLIENT:	LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidity Meter	
Brand Name:	PCE Instruments	
Model No.:	PCE-TUM 20	
Serial No.:	Q942542	
Equipment No.:		
Date of Calibration:	11/07/2018	
Date of next Calibation:	11/10/2018	

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance	
0	0.00		
4	4.20	5.0%	
20	19.92	-0.4%	
40	36.00	-10.0%	
100	98	-2.0%	
400	383	-4.3%	
800	726	-9.3%	
000	Tolerance Limit (±)	10%	

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.



EQUIPMENT PERFORMANCE CHECK / CALIBRATION REPORT

Report No.	HK1810679
Project Name	: EQUIPMENT PERFORMANCE CHECK/CALIBRATION REPORT
Date of Issue	: 11/7/2018
Customer	: LAM ENVIRONMENTAL SERVICES LIMITED
Address	: 11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Calibration Job No.	HK1810679
Test Item No.	: HK1810679-01
Test Item Details	
Test Item Description	3 Sonde
Manufacturer	YSI
Model No.	: Professional Plus
Serial No.	: 14M100277
Performance Method	: Checked according to in-house method CAL005
	(References: Temperature (Section 6 of Intermational Accreditation New Zealand Technical G
	No. 3 Second edition March 2008: Working Thermometer Calibration Procedure), pH value
	(APHA 21e 4500H:B), Salinity (Refer to Conductivity APHA 19e 2510B)
	Dissolved oxygen (APHA 19e 4500-O.C))
Test Item Receipt Date	: 10/7/2018
Test Item Calibration Date	: 11/7/2018

Notes: 1. This report shall not be reproduced, except in full, without prior approval from Pilot Testing Limited.

- 2. Results relate to item(s) as received.
- 3. ± indicates the tolerance limit
- 4. N/A = Not applicable
- APHA American Public Health Association, American Water Works Association and Water Environment Federation, Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF, USA
- 6. DO, pH, salinity and temperature performance check was conducted by Pllot Testing Limited.
- 7. Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.

Approved Signatory

Ms. Wong Po Yan, Pauline (Assistant Laboratory Manager) Issue Date:

11/7/2018



REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER: HK1810679 DATE OF ISSUE: 11/7/2018 LAM ENVIRONMENTAL SERVICES LIMITED CLIENT:

Equipment Type	Sonde	
Manufacturer	YSI	
Model No.	Professional Plus	
Serial No.	14M100277	
Date of Calibration	11-Jul-18	
Date of next Calibation	11-Oct-18	

Parameters:

Temperature (Method Ref: Section 6 of Intermational Accreditation New Zealand Technical Guide No.3 Second edition March 2008: Working Thermometer Calibration Procedure)

Reference Reading (*C)	Display Reading (°C)	Deviation (*C)
6.4	6.4	0.0
13.5	13.4	-0.1
26.9	26.7	-0.2
	olerance Limit	±2.0

pH Value (Method Ref: APHA21e, 4500H:B)

Expected Reading (pH unit)	Reference Reading (pH unit)	Display Reading (pH unit)	Deviation (pH unit)
4.0	4.08	4.06	-0.02
7.0	7.02	7.13	0.11
10.0	10.00	9.97	-0.03
	Tolerance Limit		±0.20

Conductivity (Method Ref: APHA 19e, 2510)

KCI concentration (mol/L)	Reference Reading (ms/cm)	Display Reading (ms/cm)	Deviation (%)
0.0000	0.00	0.00	
0.1000	12.8	12.6	-1.87
0.2000	23.7	23.6	-0.34
0.5000	57.3	56.8	-0.87
0.0000	Tolerance Limit		±2.0

Dissolved Oxygen (DO) (Method Ref: APHA 19e, 4500-O, C)

Reference DO reading (mg/L)	DO reading od DO probe (mg/L)	Deviation (mg/L)
7.37	7.49	0.12
6.41	6.49	0.08
5.55	5.68	0.13
0.00	Tolerance Limit	±0.20

Remarks:

(1) Maxium tolerance and calibration frequency stated in the report, unless otherewise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

(2) Displayed reading presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.

(3) Because of high sensitivity and ease of measurement, the conductivity method (accoridng to APHA 19e 2510) is used to determine salinity.

- End of Report -



EQUIPMENT PERFORMANCE CHECK / CALIBRATION REPORT

Report No.	: HK1810678
Project Name	: EQUIPMENT PERFORMANCE CHECK/CALIBRATION REPORT
Date of Issue	: 12/7/2018
Customer	LAM ENVIRONMENTAL SERVICES LIMITED
Address	11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG
Calibration Job No.	: HK1810678
Test Item No.	HK1810678-01
Test Item Details	
Test Item Description	Sonde
Manufacturer	YSI
Model No.	Professional Plus
Serial No.	14K100322
Performance Method	Checked according to in-house method CAL005
	(References: Temperature (Section 6 of International Accreditation New Zealand Technical G
	No. 3 Second edition March 2008: Working Thermometer Calibration Procedure), pH value
	(APHA 21e 4500H:B), Salinity (Refer to Conductivity APHA 19e 2510B)
	Dissolved oxygen (APHA 19e 4500-O.C.))
Test Item Receipt Date	: 10/7/2018
Test Item Calibration Date	11/7/2018

Notes: 1. This report shall not be reproduced, except in full, without prior approval from Pilot Testing Limited.

- 2. Results relate to item(s) as received.
- 3. ± indicates the tolerance limit
- 4. N/A = Not applicable
- APHA American Public Health Association, American Water Works Association and Water Environment Federation, Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF. USA
- 6. DO, pH, salinity and temperature performance check was conducted by Pilot Testing Limited.

Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.

Approved Signatory

Ms. Wong Po Yan, Pauline

(Assistant Laboratory Manager)

Issue Date:

12/7/2018



REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER: HK1810678 DATE OF ISSUE: 12/7/2018 CLIENT: LAM ENVIRONMENTAL SERVICES LIMITED

Equipment Type	Sonde	
Manufacturer	YSI	
Model No.	Professional Plus	
Serial No.	14K100322	
Date of Calibration	11-Jul-18	
Date of next Calibation	11-Oct-18	

Parameters:

Temperature (Method Ref: Section 6 of Intermational Accreditation New Zealand Technical Guide No.3 Second edition March 2008: Working Thermometer Calibration Procedure)

Reference Reading (°C)	Display Reading (°C)	Deviation (°C)
71	7.0	-0.1
13.8	13.9	0.1
27.0	26.8	-0.2
	olerance Limit	±2.0

pH Value (Method Ref: APHA21e, 4500H:B)

Expected Reading (pH unit)	Reference Reading (pH unit)	Display Reading (pH unit)	Deviation (pH unit)
4.0	4.08	4.04	-0.04
7.0	7.02	7.16	0.14
10.0	10.00	10.01	0.01
10.0	Tolerance Limit		±0.20

Conductivity (Method Ref: APHA 19e, 2510)

KCI concentration (mol/L)	Reference Reading (ms/cm)	Display Reading (ms/cm)	Deviation (%)
0.0000	0.00	0.00	
0.1000	12.8	12.8	-0.62
0.2000	23.7	23.7	0.17
0.5000	57.3	56.9	-0.70
0.0000	Tolerance Limit		±2.0

Dissolved Oxygen (DO) (Method Ref: APHA 19e, 4500-O, C)

Reference DO reading (mg/L)	DO reading od DO probe (mg/L)	Deviation (mg/L)
7.22	7.14	-0.08
6.69	6.75	0.06
5.80	5.93	0.13
0.00	Tolerance Limit	±0.20

Remarks:

s: (1) Maxium tolerance and calibration frequency stated in the report, unless otherewise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

(2) Displayed reading presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.

(3) Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.

- End of Report -



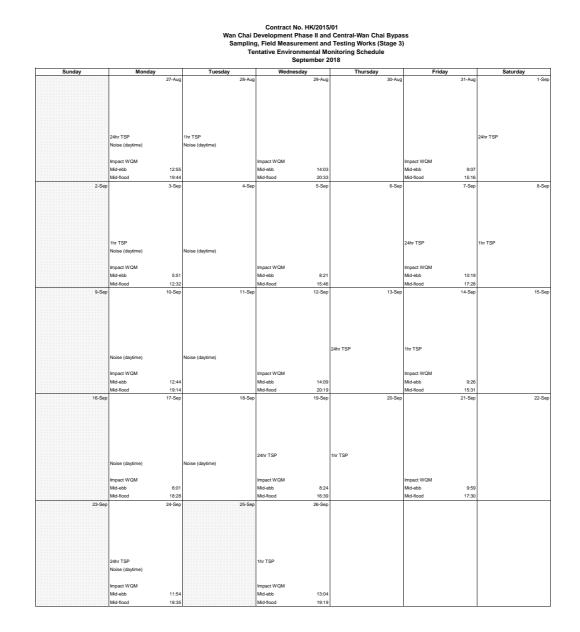
Appendix 5.1

Monitoring Schedules for Reporting Month and Coming Reporting Month

				d Central-Wan Chai Bypa d Testing Works (Stage 3 ring Schedule				
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday		
,					27-Jul	28-		
						24hr TSP		
						Impact WQM Mid-ebb 12		
						Mid-flood 20		
29-Jul	30-Jul	31-Jul	1-Aug	2-Aug	3-Aug	4-1		
	1hr TSP	Noise (daytime) (M2b, M3a, M4b, M5b, M6)	Noise (daytime) (M1a)		24hr TSP	1hr TSP		
	Impact WQM	1100, 110)	Impact WQM		Impact WQM			
	Mid-flood 7:05		Mid-flood 8:26		Mid-flood 9:58			
5-Aug	Mid-ebb 13:52 6-Aug	7-Aug	Mid-ebb 14:59 8-Aug	9-Aug	Mid-ebb 16:15 10-Aug	11-/		
				24hr TSP (CMA1b, CMA2a,	24hr TSP (CMA4a)			
	Noise (daytime) (M1a,M2b)	Noise (daytime) (M3a, M4b)		CMA3a, CMA5b, CMA6a) Noise (daytime) (M5b, M6)	1hr TSP			
		Impact WQM Mid-ebb 8:46		Impact WQM Mid-ebb 10:34		Impact WQM		
12-Aug	13-Aug	Mid-flood 15:33 14-Aug	15-Aug	Mid-flood 17:42 16-Aug	17-Aug	Mid-flood 19 18-/		
	Impact WQM Md-Hood 7.07 Md-bbb 1344	Noise (daytime) (M3a, M4b, M6)	24hr TSP Noise (daytime) (M1a,M2b) Impact WQM Md-Bbod 8:47 Md-Bbod 15:17	thr TSP	Noise (daytime) (MSb) Impact WQM Mid-ebb 16:52			
19-Aug	20-Aug	21-Aug 24hr TSP	22-Aug 1hr TSP	23-Aug	24-Aug	25-4		
		Noise (daytime) (M2b, M3a, M4b, M5b, M6) Impact WQM		Noise (daytime) (M1a,M2b) Impact WQM		Impact WQM		
		Mid-ebb 9:27		Mid-ebb 10:41		Mid-ebb 11		
		Mid-flood 16:57		Mid-flood 18:04		Mid-flood 18		
26-Aug								

Due to interruption of electricity, the 24hr TSP at CMA4a was rescheduled from 9 August 2018 to 10 August 2018.

Due to the hoisting of Amber Rainstorm Warning Signal, the water quality monitoring event scheduled on 11 August 2018 during ebb tide and 17 August 2018 during flood tide were cancelled





Appendix 5.2

Noise Monitoring Results and Graphical Presentations



Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

Location: M1a - Footbridge at EX-Wanchai Harbour Road Sports Centre

			Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level				
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq				
			Unit: dB(A), (30-min)									
1/8/18	10:25	Cloudy	72.7 74.9 69.3		72	63	75					
6/8/18	14:43	Fine	67.7	67.7 69.8 65.		72	68	75				
15/8/18	10:22	Cloudy	73.2 75.1 68.5		72	66	75					
23/8/18	11:25	Cloudy	72.3 74.9 66.4		72	56	75					



Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

Location: M2b - Noon-day gun area

			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level				
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq				
				Unit: dB(A), (30-min)								
3/8/18	08:18	Fine	67.5 69.1 65.0		68	68	75					
6/8/18	15:37	Fine	65.5	67.1	63.7	68	66	75				
15/8/18	11:06	Cloudy	66.6 68.1 64.7		68	67	75					
23/8/18	13:00	Cloudy	67.2 69.3 62.8		68	67	75					

Location: M3a - Tung Lo Wan Fire Station

			Measurement Noise Level			Baseline Level	Construction Noise Level	Limit Level					
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq					
				Unit: dB(A), (30-min)									
31/7/18	08:25	Fine	67.5 69.5 64.3		69	68	75						
7/8/18	10:15	Fine	65.6	65.6 67.1 63.8		69	66	75					
14/8/18	14:30	Cloudy	64.4	65.9	62.6	69	64	75					
21/8/18	8:10	Fine	68.5 70.1 66.2		69	69	75						



Noise Monitoring Result

Day Time (0700 - 1900hrs on normal weekdays)

Location: M4b - Victoria Centre

		Measure	ement Noi	se Level		Baseline Noise Level	Construction Noise Level	Limit Level
Date	Time	Weather	ner Leq L10		/eather Leq L10 L90 Leq Leq		Leq	Leq
						Unit: dB	(A), (30min)	
31/7/18	09:04	Fine	67.4	67.4 70.2 65.7		67	51	75
7/8/18	10:59	Fine	65.4	65.4 66.7 63.7		67	65	75
14/8/18	15:15	Cloudy	66.1	66.1 67.5 64.1		67	66	75
21/8/18	8:50	Fine	64.9	64.9 65.9 63.4		67	65	75

Location: M5b - City Garden

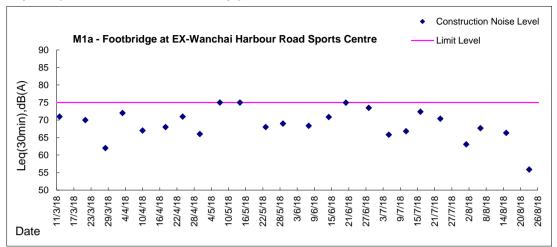
			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level				
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq				
				Unit: dB(A), (30min)								
31/7/18	09:58	Fine	71.1 73.8 69.3		69.3	68	68	75				
9/8/18	10:04	Fine	70.5	70.5 72.8 68		68	67	75				
17/8/18	13:10	Cloudy	70.5 72.3 65.6		68	67	75					
21/8/18	9:37	Fine	70.3			68	66	75				

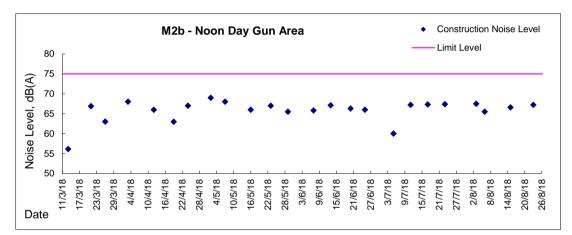
Location: M6 - HK Baptist Church Henrietta Secondary School

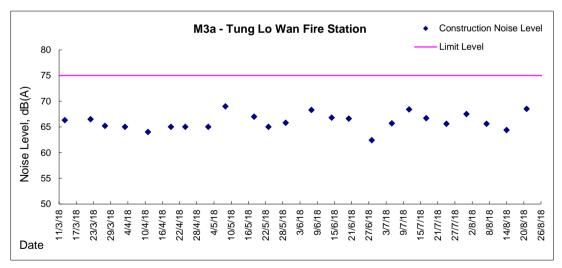
			Measure	ement Noi	se Level	Baseline Level	Construction Noise Level	Limit Level					
Date	Time	Weather	Leq	L10	L90	Leq	Leq	Leq					
				Unit: dB(A), (30-min)									
31/7/18	10:34	Fine	64.6 66.5 63.2		71	65	70						
9/8/18	10:40	Fine	67.6	67.6 68.8 66		71	68	70					
14/8/18	15:25	Cloudy	68.3 69.5 66.7		71	68	70						
21/8/18	10:15	Fine	67.3			71	67	70					



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

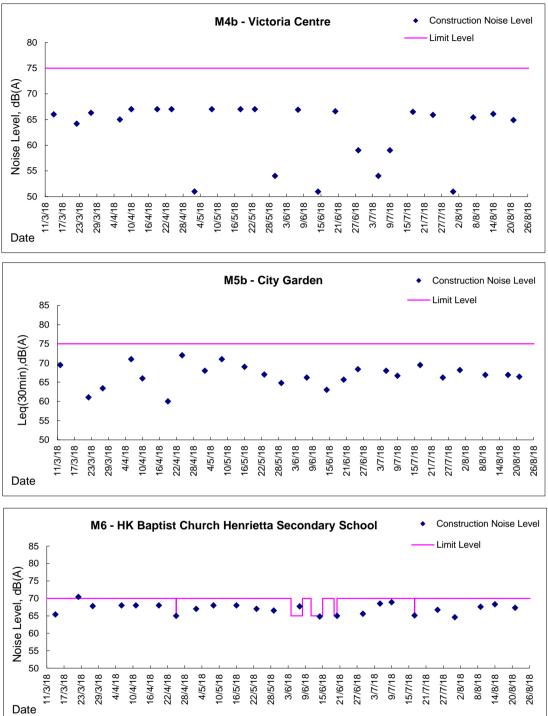








Graphic Presentation of Noise Monitoring Result Day Time (0700 - 1900hrs on normal weekdays)





Appendix 5.3

Air Quality Monitoring Results and Graphical Presentations

Location: CMA1b - Harbour Grand Hotel Boundary Wall

Report on 24-hour TSP monitoring

Action Level (μg/m3) - 176.7 Limit Level (μg/m3) - 260

Date	Sampling	Weather	Filter paper	Filter Weight, g		Elapse Time	Elapse Time, hr		Flow Rate, m ³ /min			Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
28-Jul-18	8:00	Fine	26633	2.6569	2.6925	12189.78	12213.78	24.00	1.15	1.15	1.15	1661	21.4
3-Aug-18	8:00	Cloudy	26706	2.6776	2.7237	12216.78	12240.78	24.00	1.15	1.15	1.15	1659	27.8
9-Aug-18	8:00	Cloudy	26725	2.6827	2.7445	12243.78	12267.78	24.00	1.15	1.16	1.15	1661	37.2
15-Aug-18	8:00	Cloudy	26896	2.6912	2.7270	12270.78	12294.78	24.00	1.15	1.15	1.15	1660	21.6
21-Aug-18	8:00	Rainy	26817	2.6622	2.7293	12297.78	12321.78	24.00	1.15	1.15	1.15	1660	40.4

Report on 1-hour TSP monitoring Action Level (µg/m3) - 320.1 Limit Level (µg/m3) - 500

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m ³ /ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	^β μg/m ³
30-Jul-18	8:35	Fine	26699	2.6850	2.6893	12213.78	12214.78	1.00	1.15	1.15	1.15	69	62.1
30-Jul-18	9:50	Fine	26621	2.6682	2.6718	12214.78	12215.78	1.00	1.15	1.15	1.15	69	52.0
30-Jul-18	13:00	Fine	26613	2.6669	2.6708	12215.78	12216.78	1.00	1.15	1.15	1.15	69	56.4
4-Aug-18	9:08	Cloudy	26836	2.6525	2.6555	12240.78	12241.78	1.00	1.15	1.15	1.15	69	43.4
4-Aug-18	11:00	Cloudy	26826	2.6627	2.6645	12241.78	12242.78	1.00	1.15	1.15	1.15	69	26.0
4-Aug-18	13:00	Cloudy	26821	2.6706	2.6717	12242.78	12243.78	1.00	1.15	1.15	1.15	69	15.9
10-Aug-18	9:25	Rainy	26937	2.6922	2.6950	12267.78	12268.78	1.00	1.16	1.16	1.16	69	40.4
10-Aug-18	10:35	Rainy	26925	2.6782	2.6803	12268.78	12269.78	1.00	1.16	1.16	1.16	69	30.3
10-Aug-18	13:00	Rainy	26916	2.6544	2.6681	12269.78	12270.78	1.00	1.16	1.16	1.16	69	197.6
16-Aug-18	8:40	Cloudy	27007	2.6711	2.6721	12294.78	12295.78	1.00	1.15	1.15	1.15	69	14.5
16-Aug-18	9:55	Cloudy	27009	2.6699	2.6710	12295.78	12296.78	1.00	1.15	1.15	1.15	69	15.9
16-Aug-18	10:58	Cloudy	27072	2.7055	2.7095	12296.78	12297.78	1.00	1.15	1.15	1.15	69	57.8
22-Aug-18	10:58	Rainy	27062	2.6738	2.6770	12321.78	12322.78	1.00	1.15	1.15	1.15	69	46.3
22-Aug-18	13:00	Rainy	27060	2.6658	2.6676	12322.78	12323.78	1.00	1.15	1.15	1.15	69	26.0
22-Aug-18	14:42	Rainy	27058	2.6740	2.6814	12323.78	12324.78	1.00	1.15	1.15	1.15	69	107.1

Location: CMA2a - Causeway Bay Community Centre

Report on 24-hour TSP monitoring Action Level (µg/m3) - 169.5 Limit Level (µg/m3) - 260

Date	Sampling	Weather	Filter	Filter Weigh	Filter Weight, g		r	Sampling	Flo	w Rate, m ³ /ı	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μ g /m³
28-Jul-18	8:00	Fine	26632	2.6699	2.7427	21763.48	21787.48	24.00	1.22	1.22	1.22	1751	41.6
3-Aug-18	8:00	Cloudy	26756	2.6667	2.7557	21790.48	21814.48	24.00	1.21	1.22	1.21	1749	50.9
9-Aug-18	8:00	Cloudy	26724	2.6877	2.7963	21817.48	21841.48	24.00	1.21	1.22	1.22	1752	62.0
15-Aug-18	8:00	Cloudy	26895	2.6514	2.7238	21844.48	21868.48	24.00	1.22	1.22	1.22	1750	41.4
21-Aug-18	8:00	Rainy	27069	2.6821	2.8311	21871.48	21895.48	24.00	1.22	1.21	1.22	1750	85.2

Report on 1-hour TSP monitoring Action Level (μg/m3) - 323.4 Limit Level (μg/m3) - 500

Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Time, h	r	Sampling	Flo	w Rate, m ³ /r	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	³ μg/m ³
30-Jul-18	8:30	Fine	26698	2.6929	2.7013	21787.48	21788.48	1.00	1.22	1.22	1.22	73	115.2
30-Jul-18	9:50	Fine	26622	2.6764	2.6814	21788.48	21789.48	1.00	1.22	1.22	1.22	73	68.5
30-Jul-18	13:00	Fine	26614	2.6706	2.6772	21789.48	21790.48	1.00	1.22	1.22	1.22	73	90.5
4-Aug-18	9:15	Cloudy	26835	2.6644	2.6718	21814.48	21815.48	1.00	1.22	1.22	1.22	73	101.5
4-Aug-18	10:55	Cloudy	26827	2.6671	2.6743	21815.48	21816.48	1.00	1.22	1.22	1.22	73	98.7
4-Aug-18	13:00	Cloudy	26715	2.6881	2.6933	21816.48	21817.48	1.00	1.22	1.22	1.22	73	71.3
10-Aug-18	9:30	Rainy	26736	2.6774	2.6824	21841.48	21842.48	1.00	1.22	1.22	1.22	73	68.4
10-Aug-18	10:35	Rainy	26926	2.6832	2.6873	21842.48	21843.48	1.00	1.22	1.22	1.22	73	56.1
10-Aug-18	13:00	Rainy	26917	2.6792	2.6894	21843.48	21844.48	1.00	1.22	1.22	1.22	73	139.5
16-Aug-18	8:37	Cloudy	27008	2.6657	2.6678	21868.48	21869.48	1.00	1.22	1.22	1.22	73	28.8
16-Aug-18	9:55	Cloudy	26878	2.6622	2.6644	21869.48	21870.48	1.00	1.22	1.22	1.22	73	30.2
16-Aug-18	10:55	Cloudy	27073	2.6905	2.6956	21870.48	21871.48	1.00	1.22	1.22	1.22	73	69.9
22-Aug-18	11:00	Rainy	27061	2.6865	2.6952	21895.48	21896.48	1.00	1.21	1.21	1.21	73	119.4
22-Aug-18	13:00	Rainy	27059	2.6636	2.6721	21896.48	21897.48	1.00	1.21	1.21	1.21	73	116.7
22-Aug-18	14:50	Rainy	27057	2.6849	2.6970	21897.48	21898.48	1.00	1.21	1.21	1.21	73	166.1

Location: CMA3a - CWB PRE Site Office Area

Report on 24-hour TSP monitoring Action Level (µg/m3) - 171

Limit Level (µg/m3) -	260
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Date	Sampling	Weather	Filter	Filter Weigh	Filter Weight, g E		e, hr	Sampling	Flo	w Rate, m ³ /	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
28-Jul-18	8:00	Fine	26634	2.6819	2.7156	9185.49	9209.49	24.00	0.99	0.99	0.99	1430	23.6
3-Aug-18	8:00	Cloudy	26705	2.6859	2.7443	9212.49	9236.49	24.00	1.12	1.12	1.12	1611	36.2
9-Aug-18	8:00	Cloudy	26723	2.6672	2.7018	9239.49	9263.49	24.00	1.12	1.12	1.12	1614	21.4
15-Aug-18	8:00	Cloudy	26915	2.6647	2.7072	9266.49	9290.49	24.00	1.06	1.06	1.06	1521	27.9
21-Aug-18	8:00	Rainy	26871	2.6839	2.7853	9293.49	9317.49	24.00	0.99	0.99	0.99	1428	71.0

Report on 1-hour TSP monitoring Action Level (µg/m3) - 311.3 Limit Level (µg/m3) - 500

Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Time	e, hr	Sampling	Flo	w Rate, m ³ /	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
30-Jul-18	8:20	Fine	26697	2.6910	2.6985	9209.49	9210.49	1.00	1.06	1.06	1.06	63	118.3
30-Jul-18	9:35	Fine	26704	2.6865	2.7024	9210.49	9211.49	1.00	0.99	0.99	0.99	60	267.0
30-Jul-18	13:00	Fine	26615	2.6589	2.6646	9211.49	9212.49	1.00	0.99	0.99	0.99	60	95.7
4-Aug-18	8:55	Cloudy	25837	2.6525	2.6666	9236.49	9237.49	1.00	1.12	1.12	1.12	67	209.9
4-Aug-18	10:40	Cloudy	26828	2.6608	2.6637	9237.49	9238.49	1.00	1.12	1.12	1.12	67	43.2
4-Aug-18	13:00	Cloudy	26822	2.6861	2.6893	9238.49	9239.49	1.00	1.12	1.12	1.12	67	47.6
10-Aug-18	8:25	Rainy	26732	2.6769	2.6783	9263.49	9264.49	1.00	1.00	1.00	1.00	60	23.4
10-Aug-18	10:25	Rainy	26927	2.6686	2.6696	9264.49	9265.49	1.00	1.00	1.00	1.00	60	16.7
10-Aug-18	13:00	Rainy	26918	2.6679	2.6692	9265.49	9266.49	1.00	1.00	1.00	1.00	60	21.8
16-Aug-18	8:30	Cloudy	27006	2.6728	2.6740	9290.49	9291.49	1.00	1.06	1.06	1.06	63	18.9
16-Aug-18	9:45	Cloudy	26879	2.6649	2.6659	9291.49	9292.49	1.00	0.99	1.06	1.02	61	16.3
16-Aug-18	10:47	Cloudy	26874	2.6624	2.6636	9292.49	9293.49	1.00	1.06	1.06	1.06	63	18.9
22-Aug-18	9:25	Rainy	27063	2.6711	2.6765	9317.49	9318.49	1.00	0.99	0.99	0.99	59	90.8
22-Aug-18	13:00	Rainy	27036	2.6903	2.6943	9318.49	9319.49	1.00	0.99	0.99	0.99	59	67.3
22-Aug-18	15:40	Rainy	27056	2.6654	2.6719	9319.49	9320.49	1.00	0.99	0.99	0.99	59	109.3

Location: CMA4a - SPCA

Report on 24-hour TSP monitoring Action Level (µg/m3) - 171.

171.2 Limit Level (µg/m3) -260

Date	Sampling	Weather	Filter	Filter Weigh	Filter Weight, g E		e, hr	Sampling	Flo	w Rate, m ³ /r	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q_{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
28-Jul-18	8:00	Fine	26635	2.6743	2.7132	26011.64	26035.64	24.00	1.19	1.19	1.19	1712	22.7
3-Aug-18	8:00	Cloudy	26629	2.6746	2.7295	26038.64	26062.64	24.00	1.19	1.19	1.19	1711	32.1
10-Aug-18	14:15	Rainy	26739	2.6803	2.7150	26070.04	26094.04	24.00	1.29	1.29	1.29	1853	18.7
15-Aug-18	8:00	Cloudy	26697	2.6883	2.7326	26094.04	26118.04	24.00	1.24	1.24	1.24	1781	24.9
21-Aug-18	8:00	Rainy	27070	2.6876	2.7894	26121.04	26145.04	24.00	1.28	1.28	1.28	1849	55.1

Remarks: Due to interruption of electricity, the 24hr TSP was rescheduled from 9 August 2018 to 10 August 2018.

Report on 1-hour TSP monitoring

Action Level (μg/m3) -Limit Level (μg/m3) -312.5

500

Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m ³ /i	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μ g/m³
30-Jul-18	8:20	Fine	26623	2.6808	2.6846	26035.64	26036.64	1.00	1.24	1.24	1.24	74	51.2
30-Jul-18	9:30	Fine	26703	2.6743	2.6772	26036.64	26037.64	1.00	1.24	1.24	1.24	74	39.1
30-Jul-18	13:00	Fine	26616	2.6603	2.6640	26037.64	26038.64	1.00	1.19	1.19	1.19	71	51.9
4-Aug-18	8:45	Cloudy	26709	2.6906	2.6934	26062.64	26063.64	1.00	1.24	1.24	1.24	74	37.7
4-Aug-18	10:50	Cloudy	26829	2.6604	2.6639	26063.64	26064.64	1.00	1.24	1.24	1.24	74	47.2
4-Aug-18	13:00	Cloudy	26823	2.6824	2.6858	26064.64	26065.64	1.00	1.24	1.24	1.24	74	45.8
10-Aug-18	8:40	Rainy	26933	2.6832	2.6866	26067.04	26068.04	1.00	1.29	1.29	1.29	77	44.0
10-Aug-18	10:20	Rainy	26928	2.6762	2.6772	26068.04	26069.04	1.00	1.29	1.29	1.29	77	12.9
10-Aug-18	13:00	Rainy	26919	2.6613	2.6626	26069.04	26070.04	1.00	1.29	1.29	1.29	77	16.8
16-Aug-18	8:24	Cloudy	27075	2.6971	2.6985	26118.04	26119.04	1.00	1.24	1.24	1.24	74	18.9
16-Aug-18	9:42	Cloudy	26880	2.6698	2.6714	26119.04	26120.04	1.00	1.24	1.24	1.24	74	21.6
16-Aug-18	10:46	Cloudy	26875	2.6637	2.6653	26120.04	26121.04	1.00	1.24	1.24	1.24	74	21.6
22-Aug-18	9:15	Rainy	27064	2.6707	2.6751	26145.04	26146.04	1.00	1.28	1.28	1.28	77	57.1
22-Aug-18	13:00	Rainy	27037	2.6644	2.6697	26146.04	26147.04	1.00	1.28	1.28	1.28	77	68.8
22-Aug-18	15:28	Rainy	27055	2.6691	2.6760	26147.04	26148.04	1.00	1.28	1.28	1.28	77	89.6

Location: CMA5b - Pedestrian Plaza

Report on 24-hour TSP monitoring Action Level (µg/m3) - 181 Limit Level (µg/m3) - 260

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Time	ə, hr	Sampling	Flo	w Rate, m ³ /r	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
28-Jul-18	8:00	Fine	26540	2.6619	2.7104	10606.44	10630.44	24.00	1.07	1.07	1.07	1544	31.4
3-Aug-18	8:00	Cloudy	26610	2.6689	2.7240	10633.44	10657.44	24.00	1.07	1.07	1.07	1542	35.7
9-Aug-18	8:00	Cloudy	26716	2.6861	2.7598	10660.44	10684.44	24.00	1.07	1.07	1.07	1544	47.7
15-Aug-18	8:00	Cloudy	26747	2.6836	2.7362	10687.44	10711.44	24.00	1.07	1.07	1.07	1543	34.1
21-Aug-18	8:00	Rainy	27071	2.6963	2.8003	10714.44	10738.44	24.00	1.07	1.07	1.07	1542	67.4

Report on 1-hour TSP monitoring Action Level (μg/m3) - 332 Limit Level (μg/m3) - 500 332

500

Date	Sampling	Weather	Filter paper	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m ³ /ı	min	Total	TSP Level,
	Time	Condition	no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m ³
30-Jul-18	8:20	Fine	26694	2.6651	2.6676	10630.44	10631.44	1.00	1.07	1.07	1.07	64	38.9
30-Jul-18	9:30	Fine	26700	2.6784	2.6818	10631.44	10632.44	1.00	1.07	1.07	1.07	64	52.9
30-Jul-18	13:00	Fine	26620	2.6579	2.6635	10632.44	10633.44	1.00	1.07	1.07	1.07	64	87.1
4-Aug-18	8:04	Cloudy	26708	2.6726	2.6748	10657.44	10658.44	1.00	1.07	1.07	1.07	64	34.2
4-Aug-18	9:43	Cloudy	26834	2.6479	2.6504	10658.44	10659.44	1.00	1.07	1.07	1.07	64	38.9
4-Aug-18	13:00	Cloudy	26825	2.6626	2.6650	10659.44	10660.44	1.00	1.07	1.07	1.07	64	37.3
10-Aug-18	8:04	Rainy	26934	2.6619	2.6630	10684.44	10685.44	1.00	1.07	1.07	1.07	64	17.1
10-Aug-18	9:45	Rainy	26931	2.6666	2.6691	10685.44	10686.44	1.00	1.07	1.07	1.07	64	38.8
10-Aug-18	10:50	Rainy	26924	2.6785	2.6877	10686.44	10687.44	1.00	1.07	1.07	1.07	64	142.7
16-Aug-18	8:05	Cloudy	27076	2.6681	2.6888	10711.44	10712.44	1.00	1.07	1.07	1.07	64	321.9
16-Aug-18	9:10	Cloudy	26682	2.6668	2.6680	10712.44	10713.44	1.00	1.07	1.07	1.07	64	18.7
16-Aug-18	10:10	Cloudy	27074	2.6988	2.7010	10713.44	10714.44	1.00	1.07	1.07	1.07	64	34.2
22-Aug-18	8:30	Rainy	26859	2.6581	2.6636	10738.44	10739.44	1.00	1.07	1.07	1.07	64	85.7
22-Aug-18	9:33	Rainy	27016	2.6839	2.6880	10739.44	10740.44	1.00	1.07	1.07	1.07	64	63.9
22-Aug-18	10:35	Rainy	27019	2.6879	2.6933	10740.44	10741.44	1.00	1.07	1.07	1.07	64	84.1

Location: CMA6a - WD2 PRE Office

Report on 24-hour TSP monitoring

Action Level -	187.3	µg/m3
Limit Level -	260	µg/m3

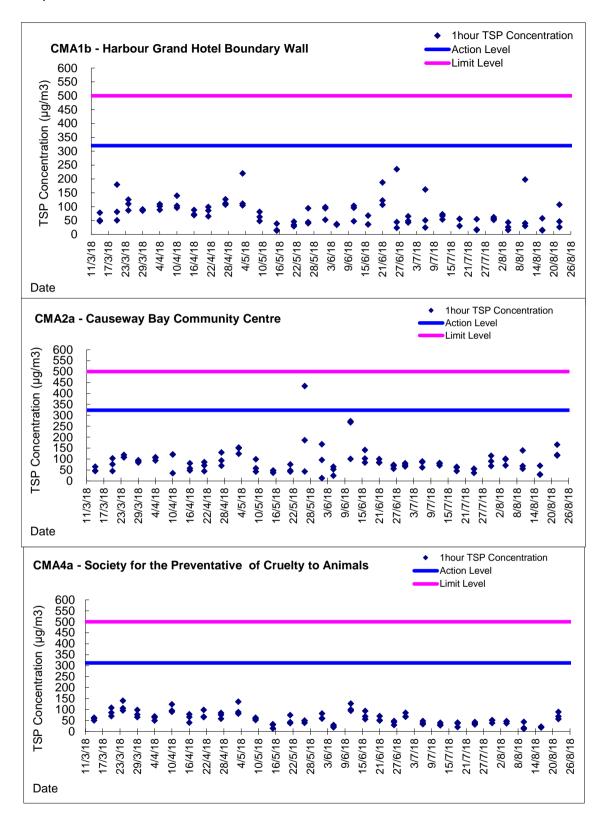
Date	Sampling	Weather	Filter	Filter Weigh	Filter Weight, g E		e, hr	Sampling	Flo	w Rate, m ³ /i	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
28-Jul-18	8:00	Fine	26636	2.6732	2.7023	4309.44	4333.44	24.00	1.10	1.10	1.10	1589	18.3
3-Aug-18	8:00	Cloudy	26612	2.6839	2.7363	4336.44	4360.44	24.00	1.10	1.10	1.10	1587	33.0
9-Aug-18	8:00	Cloudy	26718	2.6856	2.7157	4363.44	4387.44	24.00	1.05	1.05	1.05	1509	19.9
15-Aug-18	8:00	Cloudy	26898	2.6829	2.7208	4390.44	4414.44	24.00	1.16	1.16	1.16	1669	22.7
21-Aug-18	8:00	Rainy	26872	2.6861	2.7683	4417.44	4441.44	24.00	1.05	1.05	1.05	1507	54.5

Report on 1-hour TSP monitoring Action Level - $300.1 \,\mu \,\text{g/m}^3$ Limit Level - $500 \,\mu \,\text{g/m}3$

Date	Sampling	Weather	Filter	Filter Weigh	nt, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m ³ /	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q_{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
30-Jul-18	8:02	Fine	26695	2.6616	2.6641	4333.44	4334.44	1.00	1.10	1.10	1.10	66	37.8
30-Jul-18	9:10	Fine	26702	2.6775	2.6805	4334.44	4335.44	1.00	1.10	1.10	1.10	66	45.3
30-Jul-18	10:20	Fine	26618	2.6654	2.6700	4335.44	4336.44	1.00	1.10	1.10	1.10	66	69.5
4-Aug-18	8:05	Cloudy	26841	2.6544	2.6554	4360.44	4361.44	1.00	1.05	1.05	1.05	63	15.9
4-Aug-18	9:50	Cloudy	26710	2.6761	2.6796	4361.44	4362.44	1.00	1.05	1.05	1.05	63	55.7
4-Aug-18	13:00	Cloudy	26711	2.6782	2.6809	4362.44	4363.44	1.00	1.05	1.05	1.05	63	43.0
10-Aug-18	8:05	Rainy	26735	2.6626	2.6654	4387.44	4388.44	1.00	1.11	1.11	1.11	66	42.2
10-Aug-18	10:05	Rainy	26930	2.6820	2.6831	4388.44	4389.44	1.00	1.05	1.05	1.05	63	17.5
10-Aug-18	13:00	Rainy	26922	2.6757	2.6797	4389.44	4390.44	1.00	1.11	1.11	1.11	66	60.3
16-Aug-18	8:05	Cloudy	26887	2.6737	2.6748	4414.44	4415.44	1.00	1.10	1.10	1.10	66	16.6
16-Aug-18	9:30	Cloudy	26883	2.6663	2.6673	4415.44	4416.44	1.00	1.10	1.10	1.10	66	15.1
16-Aug-18	10:32	Cloudy	26876	2.6811	2.6836	4416.44	4417.44	1.00	1.10	1.10	1.10	66	37.8
22-Aug-18	8:40	Rainy	26914	2.6666	2.6723	4441.44	4442.44	1.00	1.05	1.05	1.05	63	90.8
22-Aug-18	9:43	Rainy	27018	2.6689	2.6726	4442.44	4443.44	1.00	1.10	1.10	1.10	66	56.0
22-Aug-18	10:46	Rainy	27021	2.6898	2.6970	4443.44	4444.44	1.00	1.05	1.05	1.05	63	114.7

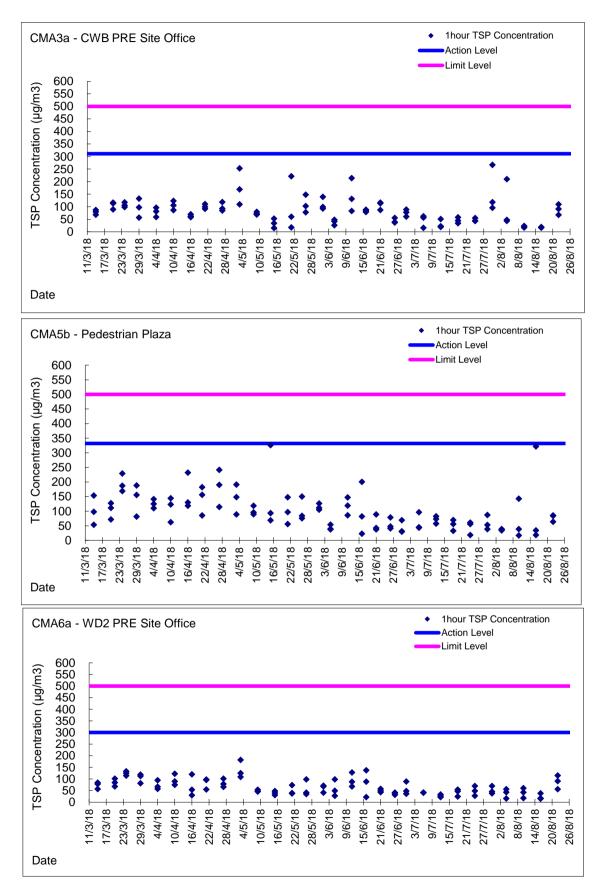


Graphic Presentation of 1 hour TSP Result



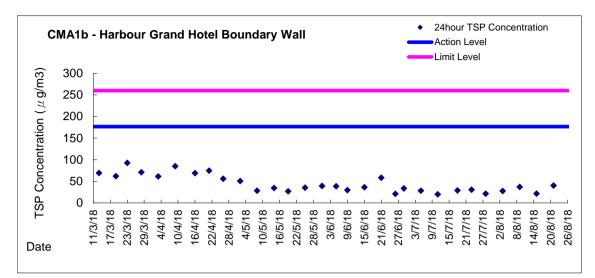


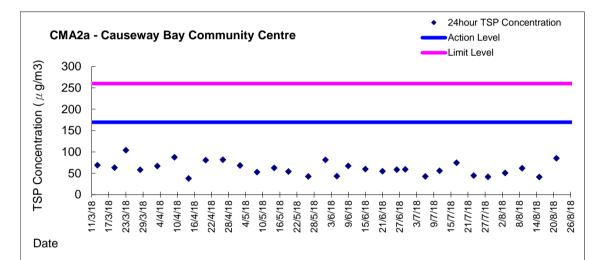
Graphic Presentation of 1 hour TSP Result

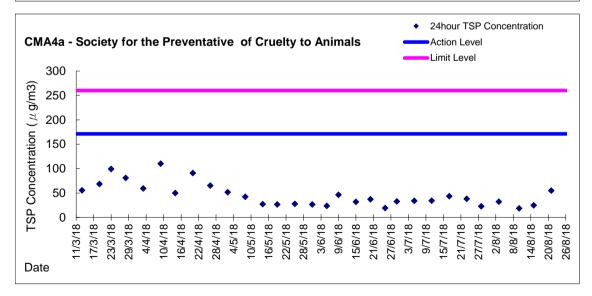




Graphic Presentation of 24 hour TSP Result



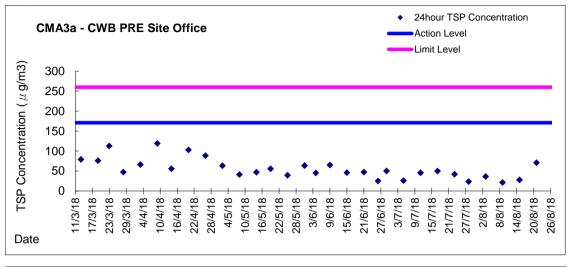


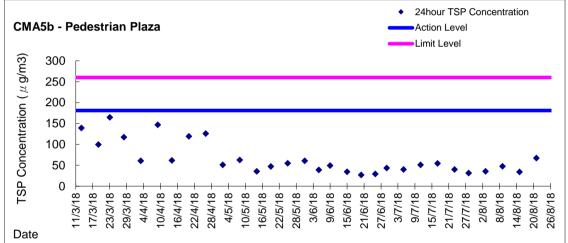


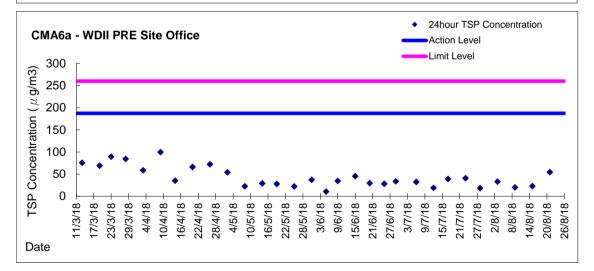


Contract no. HK/2015/01 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 3)

Graphic Presentation of 24 hour TSP Result









Appendix 5.4

Water Quality Monitoring Results and Graphical Presentations

Water Monitoring Result at C7 - Windsor House Mid-Flood Tide

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		pН			Salinit ppt	ty	D	O Satur	ation		DO mg/L			Turbic NTU			led Solids a/L
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	g/∟ Average
28/7/18	19:31	Fine	Middle	1.5	29.60	29.60	29.60	7.85	7.85	7.85	28.57	28.57	28.57	70.5	74.5	73.1	4.51	4.77	4.69	1.11	1.08	1.12	<2	- <2
20/1/10	19:32	1 me	Middle	1.5	29.60	29.60	29.00	7.85	7.85	7.05	28.57	28.57	20.57	74.0	73.5	75.1	4.74	4.73	4.09	1.16	1.14	1.12	<2	~2
30/7/18	5:00	Fine	Middle	1.5	29.30	29.30	29.30	7.84	7.84	7.84	26.32	26.32	26.32	72.6	73.1	72.5	4.60	4.85	4.76	1.36	1.32	1.31	<2	<2
	5:01	-	Middle	1.5	29.30	29.30		7.84	7.84	-	26.32	26.32		72.1	72.2	-	4.78	4.79	-	1.29	1.27	-	<2	
1/8/18	8:05	Cloudy	Middle	1.5	29.30	29.30	29.35	7.97	7.97	7.97	27.59	27.59	27.60	83.8	84.1	84.0	5.50	5.51	5.51	3.29	3.31	3.31	10	9.50
	8:07		Middle	1.5	29.40	29.40		7.97	7.97		27.60	27.60		84.1	84.0		5.51	5.51		3.32	3.32		9	
3/8/18	8:20	Fine	Middle	1.5	29.00	29.00	29.05	7.99	7.99	7.99	27.31	27.31	27.31	76.2	76.1	75.4	5.03	5.02	4.98	2.76	2.72	2.72	2	2.00
	8:22		Middle	1.5	29.10	29.10		7.99	7.99		27.31	27.31		74.6	74.7		4.93	4.93		2.70	2.69		<2	
7/8/18	16:20	Fine	Middle	1.5	29.30	29.30	29.25	8.18	8.18	8.19	28.03	28.03	28.03	90.4	89.6	90.2	5.93	5.90	5.93	2.52	2.49	2.47	3	2.50
	16:22		Middle	1.5	29.20	29.20		8.19	8.19		28.03	28.03		90.1	90.8		5.92	5.97		2.43	2.45		2	
9/8/18	18:15	Fine	Middle	1.5	29.30	29.30	29.35	8.18	8.18	8.20	28.97	28.97	28.96	89.3	88.7	89.0	5.82	5.78	5.80	2.95	2.96	2.96	5	5.00
	18:17		Middle	1.5	29.40	29.40		8.21	8.21		28.95	28.95		89.0	89.1		5.80	5.80		2.96	2.97		5	<u> </u>
11/8/18	21:55	Cloudy	Middle	1.5	27.30	27.30	27.30	7.86	7.86	7.86	27.95	27.95	27.95	72.8	74.2	73.0	4.98	5.03	4.99	1.16	1.21	1.20	5	5.00
	21:56		Middle	1.5	27.30	27.30		7.86	7.86		27.95	27.95		71.9	73.2		4.87	5.06		1.18	1.23		<2	
13/8/18	4:45	Cloudy	Middle	1.5	26.80	26.80	26.80	7.81	7.81	7.81	28.43	28.43	28.43	71.5	73.1	71.9	4.64	4.75	4.67	1.24	1.27	1.29	<2	<2
	4:46		Middle	1.5	26.80	26.80		7.81	7.81		28.43	28.43		71.9	71.1		4.67	4.61		1.31	1.34		<2	<u> </u>
15/8/18	8:05	Cloudy	Middle	1.5	27.90	27.90	27.90	7.95	7.95	7.95	29.51	29.51	29.42	79.1	78.7	78.0	5.28	5.24	5.20	4.06	4.07	3.99	3	3.00
	8:07	Amber	Middle	1.5	27.90	27.90		7.95	7.95		29.32	29.32		77.2	76.9		5.15	5.12		3.95	3.89		3	
17/8/18	-	Rainstorm Warning	Middle	-	-	-	-	-	-	-	-	-	-	-	-	· -	-	-	-	-	-	-	-	
	17:30	Signal	Middle	1.5	28.90	28.90		8.02	8.02		24.59	24.59		74.4	74.6		5.01	5.02		4.68	4.75		5	╞───┤
21/8/18	17:32	Cloudy	Middle	1.5	28.90	28.90	28.90	8.00	8.00	8.01	24.50	24.50	24.55	74.4	74.9	74.6	5.00	5.03	5.02	4.61	4.66	4.68	5	5.00
	15:45		Middle	1.5	29.20	29.20		7.91	7.91		26.18	26.18		74.9	74.8		4.96	4.75		5.64	5.67		8	+
23/8/18	15:47	Fine	Middle	1.5	29.30	29.30	29.25	7.91	7.91	7.91	26.18	26.18	26.18	74.0	74.0	74.4	4.90	4.89	4.88	5.65	5.61	5.64	7	7.50
	21:56		Middle	1.5	28.40	28.40		7.92	7.92		29.77	29.77		74.3	75.5		4.92	4.97		1.21	1.30		<2	+
25/8/18	21:57	Cloudy	Middle	1.5	28.40	28.40	28.40	7.92	7.92	7.92	29.77	29.77	29.77	75.6	75.7	75.3	4.98	4.99	4.97	1.36	1.28	1.29	<2	<2

Water Monitoring Result at C1 - HKCEC Extension Mid-Flood Tide

Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp	erature		pН			Salini ppt	ty	D	O Satur	ation		DO ma/L			Turbid NTU		Suspend	led Solids
		Condition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	average
28/7/18	22:40	Fine	Middle	3.0	29.20	29.20	29.20	7.99	7.99	7.99	29.39	29.39	29.39	74.9	75.4	74.6	4.80	4.84	4.79	1.37	1.30	1.28	<2	2.00
20/1/10	22:41	T IIIC	Middle	3.0	29.20	29.20	23.20	7.99	7.99	1.55	29.39	29.39	23.33	74.2	73.9	74.0	4.78	4.74	4.75	1.24	1.22	1.20	2	2.00
30/7/18	6:32	Fine	Middle	2.5	29.00	29.00	29.00	7.97	7.97	7.97	27.80	27.80	27.80	76.4	76.1	76.0	4.94	4.93	4.92	1.11	1.07	1.10	<2	<2
	6:33		Middle	2.5	29.00	29.00		7.97	7.97		27.80	27.80		76.5	75.0		4.95	4.85		1.06	1.14		<2	
1/8/18	10:10	Cloudy	Middle	3.0	29.00	29.00	29.00	8.05	8.05	8.06	29.17	29.17	29.17	86.0	85.5	86.3	5.63	5.60	5.65	4.08	4.07	4.07	7	7.50
	10:12		Middle	3.0	29.00	29.00		8.07	8.07		29.17	29.17		86.6	86.9		5.68	5.69		4.07	4.07		8	
3/8/18	10:55	Fine	Middle	3.0	28.80	28.80	28.80	8.14	8.14	8.14	28.85	28.85	28.88	83.4	84.1	83.8	5.50	5.54	5.54	4.72	4.65	4.67	3	3.00
	10:57		Middle	3.0	28.80	28.80		8.14	8.14		28.91	28.91		83.6	83.9		5.60	5.52		4.65	4.66		3	
7/8/18	15:05	Fine	Middle	3.0	28.90	28.90	28.90	8.28	8.28	8.28	28.60	28.60	28.61	88.0	88.2	88.0	5.78	5.80	5.79	5.35	5.31	5.30	6	7.00
	15:07		Middle	3.0	28.90	28.90		8.28	8.28		28.61	28.61		88.1	87.8		5.79	5.77		5.29	5.25		8	<u></u>
9/8/18	17:10	Fine	Middle	2.5	28.30	28.30	28.35	8.27	8.27	8.27	29.50	29.50	29.52	86.6	86.9	86.6	5.72	5.74	5.72	7.92	7.90	7.92	10	10.50
	17:12		Middle	2.5	28.40	28.40		8.27	8.27		29.53	29.53		86.4	86.6		5.71	5.72		7.93	7.93		11	<u> </u>
11/8/18	20:57	Cloudy	Middle	3.0	27.30	27.30	27.30	8.05	8.05	8.05	29.99	29.99	29.99	77.0	76.7	76.4	5.16	5.14	5.12	1.47	1.18	1.49	4	4.00
	20:58 7:05		Middle Middle	3.0 2.5	27.30 26.70	27.30 26.70		8.05 7.73	8.05 7.73		29.99 29.35	29.99 29.35		75.8 70.8	76.0 71.1		5.08 4.51	5.09 4.53		1.60 1.37	1.69 1.46		4	
13/8/18	7:05	Cloudy	Middle	2.5	26.70	26.70	26.70	7.73	7.73	7.73	29.35	29.35	29.35	67.3	67.2	69.1	4.31	4.55	4.40	1.37	1.40	1.58	5	6.00
	10:50		Middle	3.0	27.80	27.80		8.07	8.07		30.10	30.10		70.7	71.0		4.70	4.72		11.33	11.22		14	<u> </u>
15/8/18	10:52	Cloudy	Middle	3.0	27.80	27.80	27.80	8.07	8.07	8.07	30.10	30.10	30.10	72.7	73.1	71.9	4.83	4.85	4.78	11.28	11.27	11.28	14	14.00
	-	Amber	Middle	-	-	-		-	-			-		-	-		-	-		-	-		-	
17/8/18	-	Rainstorm Warning Signal	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	
	15:50		Middle	3.0	28.40	28.40		8.05	8.05		29.04	29.04		77.9	78.3		5.16	5.18		4.82	4.81		14	
21/8/18	15:52	Cloudy	Middle	3.0	28.30	28.30	28.35	8.04	8.04	8.05	29.05	29.05	29.05	78.9	78.9	78.5	5.22	5.23	5.20	4.81	4.81	4.81	14	14.00
22/0/4.0	18:20	Fine	Middle	3.0	27.70	27.70	07.75	8.05	8.05	0.05	30.44	30.44	20.44	79.6	79.6	70.5	5.28	5.28	5.07	5.81	5.90	5.00	6	6.00
23/8/18	18:22	Fine	Middle	3.0	27.80	27.80	27.75	8.05	8.05	8.05	30.43	30.43	30.44	79.1	79.5	79.5	5.25	5.25	5.27	5.99	5.99	5.92	6	6.00
25/8/18	20:42	Cloudy	Middle	3.0	27.70	27.70	27.70	7.98	7.98	7.98	31.35	31.35	31.35	76.3	76.7	76.3	5.04	5.06	5.04	2.80	2.60	2.77	6	6.00
20/0/10	20:43	Cioduy	Middle	3.0	27.70	27.70	21.10	7.98	7.98	1.90	31.35	31.35	51.55	76.0	76.1	10.5	5.02	5.03	5.04	2.77	2.91	2.11	6	0.00

Water Monitoring Result at P1 - HKCEC Phase I Mid-Flood Tide

Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp	erature		pН			Salini ppt	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	ded Solids
		Condition	r	n	Va	lue	Average	Va	lue -	Average	Va	lue ppr	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	g/L Average
28/7/18	22:15	Fine	Middle	3.0	29.30	29.30	29.30	8.00	8.00	8.00	29.29	29.29	29.29	74.1	75.3	75.0	4.74	4.82	4.80	3.79	3.84	3.68	5	4.00
20/1/10	22:16	TINC	Middle	3.0	29.30	29.30	23.30	8.00	8.00	0.00	29.29	29.29	23.23	74.7	75.7	73.0	4.78	4.85	4.00	3.82	3.25	3.00	3	4.00
30/7/18	6:07	Fine	Middle	2.5	29.40	29.40	29.40	8.11	8.11	8.11	27.83	27.83	27.83	71.2	71.5	71.6	4.66	4.68	4.68	1.09	1.11	1.13	<2	16.00
	6:08		Middle	2.5	29.40	29.40		8.11	8.11		27.83	27.83		71.3	72.2		4.66	4.73		1.13	1.17		16	<u> </u>
1/8/18	9:50	Cloudy	Middle	3.0	28.70	28.70	28.85	8.11	8.11	8.11	29.12	29.12	29.14	86.3	85.9	86.8	5.64	5.62	5.68	4.32	4.29	4.29	10	11.00
	9:52		Middle	3.0	29.00	29.00		8.11	8.11		29.16	29.16		87.6	87.5		5.74	5.72		4.27	4.26		12	<u> </u>
3/8/18	10:30	Fine	Middle	3.0	29.60	29.60	29.65	8.07	8.07	8.09	28.85	28.85	28.85	90.7	91.4	91.0	5.90	5.93	5.91	4.10	4.16	4.14	4	5.00
	10:32		Middle	3.0	29.70	29.70		8.10	8.10		28.85	28.85		91.1	90.7		5.91	5.88		4.18	4.12		6	<u> </u>
7/8/18	14:45	Fine	Middle	3.0	29.30	29.30	29.35	8.31	8.31	8.33	28.27	28.27	28.27	98.4	97.9	97.8	6.43	6.40	6.39	3.72	3.73	3.76	7	6.50
	14:47		Middle	3.0	29.40	29.40		8.34	8.34		28.27	28.27		97.4	97.5		6.37	6.37		3.78	3.80		6	<u> </u>
9/8/18	16:50	Fine	Middle	2.5	29.80	29.80	29.85	8.24	8.24	8.26	29.21	29.21	29.21	93.6	94.1	93.9	6.04	6.07	6.06	5.29	5.28	5.28	8	8.00
	16:52		Middle	2.5	29.90	29.90		8.27	8.27		29.21	29.21		93.5	94.4		6.02	6.09		5.28	5.27		8	<u> </u>
11/8/18	20:25	Cloudy	Middle	3.0	27.20	27.20	27.20	8.06	8.06	8.06	29.67	29.67	29.69	74.2	75.8	74.5	4.99	5.09	5.00	1.29	1.28	1.30	5	5.00
	20:26 6:35		Middle Middle	3.0 2.5	27.20 27.00	27.20 27.00		8.06 7.84	8.06 7.84		29.70 29.30	29.70 29.30		73.2 72.5	74.8 77.2		4.92 4.60	5.01 4.89		1.22 1.26	1.40		5	
13/8/18	6:36	Cloudy	Middle	2.5	27.00	27.00	27.00	7.84	7.84	7.84	29.30	29.30	29.30	72.5	75.2	75.0	4.00	4.09	4.76	1.40	1.17	1.26	5	4.00
	10:30		Middle	3.0	27.90	27.90		8.04	8.04		29.83	29.83		75.9	76.0		5.04	5.08		7.40	7.46		6	<u> </u>
15/8/18	10:32	Cloudy	Middle	3.0	27.90	27.90	27.90	8.04	8.04	8.04	29.83	29.83	29.83	76.8	77.4	76.5	5.09	5.14	5.09	7.47	7.48	7.45	6	6.00
	-	Amber	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	<u> </u>
17/8/18	-	Rainstorm Warning Signal	Middle	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	
04/5/17	15:30		Middle	3.0	28.70	28.70	00 - 1	8.08	8.08	0.00	28.11	28.11		85.1	84.9	0/-	5.62	5.61		6.08	6.04		8	
21/8/18	15:32	Cloudy	Middle	3.0	28.70	28.70	28.70	8.08	8.08	8.08	28.11	28.11	28.11	83.3	83.7	84.3	5.51	5.54	5.57	6.03	6.02	6.04	8	8.00
22/0/4.0	18:00	Fine	Middle	3.0	29.00	29.00	29.10	7.93	7.93	7.94	30.37	30.37	20.29	84.5	82.2	82.0	5.48	5.33	E 44	6.74	6.77	6.74	6	6.00
23/8/18	18:02	rine	Middle	3.0	29.20	29.20	29.10	7.95	7.95	7.94	30.38	30.38	30.38	84.5	84.5	83.9	5.48	5.48	5.44	6.78	6.65	6.74	6	6.00
25/8/18	20:13	Cloudy	Middle	3.0	27.80	27.80	27.80	7.99	7.99	7.99	31.37	31.37	31.37	76.9	76.4	75.7	5.07	5.05	5.00	3.37	3.39	3.34	8	7.50
20/0/10	20:14	Cioudy	Middle	3.0	27.80	27.80	21.00	7.99	7.99	1.33	31.37	31.37	51.57	75.0	74.4	13.1	4.95	4.91	5.00	3.22	3.39	5.54	7	1.50

Water Monitoring Result at P3 - APA Mid-Flood Tide

Date	Time	Weater Condition		ng Depth	Wat	er Temp °C	erature		pH -			Salini ppt		D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	led Solids
		Contaition	r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
28/7/18	22:21	Fine	Middle	3.0	29.60	29.60	29.60	7.98	7.98	7.98	29.39	29.39	29.39	77.1	76.8	76.3	4.92	4.90	4.87	3.07	3.02	3.03	4	4.00
20,1710	22:22	1 1110	Middle	3.0	29.60	29.60	20.00	7.98	7.98		29.39	29.39	20.00	75.3	75.8		4.80	4.84		3.04	2.97	0.00	4	
30/7/18	6:12	Fine	Middle	2.5	28.50	28.50	28.50	8.10	8.10	8.10	27.91	27.91	27.91	74.9	76.9	75.4	4.89	4.99	4.92	1.27	1.19	1.18	12	7.00
	6:13		Middle	2.5	28.50	28.50		8.10	8.10		27.91	27.91		76.8	73.1		5.02	4.77		1.11	1.15		2	
1/8/18	9:55	Cloudy	Middle	3.0	28.90	28.90	28.90	8.12	8.12	8.13	29.05	29.05	29.33	84.7	85.7	85.8	5.55	5.62	5.63	3.71	3.65	3.66	10	9.00
	9:57		Middle	3.0	28.90	28.90		8.13	8.13		29.60	29.60		86.5	86.4		5.67	5.67		3.61	3.66		8	<u> </u>
3/8/18	10:35	Fine	Middle	3.0	29.00	29.00	29.05	8.12	8.12	8.13	28.47	28.47	28.47	89.7	89.7	89.6	5.89	5.89	5.88	4.18	4.28	4.23	2	3.00
	10:37		Middle	3.0	29.10	29.10		8.13	8.13		28.47	28.47		89.5	89.4		5.88	5.87		4.22	4.24		4	<u> </u>
7/8/18	14:50	Fine	Middle	3.0	29.00	29.00	29.00	8.35	8.35	8.35	28.14	28.14	28.15	93.4	94.1	93.6	6.14	6.20	6.16	4.07	4.08	4.09	6	5.00
	14:52		Middle	3.0	29.00	29.00		8.35	8.35		28.15	28.15		93.3	93.6		6.14	6.16		4.09	4.12		4	
9/8/18	16:55	Fine	Middle	2.5	28.90	28.90	29.00	8.27	8.27	8.28	29.23	29.23	29.23	91.0	91.1	90.7	5.95	5.96	5.93	5.81	5.88	5.84	9	9.50
	16:57		Middle	2.5	29.10	29.10		8.28	8.28		29.23	29.23		90.4	90.3		5.91	5.91		5.86	5.79		10	
11/8/18	20:33 20:34	Cloudy	Middle	3.0 3.0	27.30 27.30	27.30 27.30	27.30	8.06 8.06	8.06 8.06	8.06	29.70 29.70	29.70 29.70	29.70	75.3 73.2	74.9 74.8	74.6	5.08 4.92	5.00 5.01	5.00	1.45 1.22	1.37 1.40	1.36	5	5.00
	6:39		Middle	2.5	26.50	26.50		7.87	7.87		29.70	29.40		76.4	74.0		4.92	4.68		4.43	4.28		6	
13/8/18	6:40	Cloudy	Middle	2.5	26.50	26.50	26.50	7.87	7.87	7.87	29.40	29.40	29.40	76.4	73.9	75.3	4.80	4.62	4.73	4.36	4.35	4.36	5	5.50
	10:35		Middle	3.0	27.80	27.80		8.04	8.04		29.87	29.87		74.6	75.7		4.96	5.03		9.19	9.21		6	<u> </u>
15/8/18	10:37	Cloudy	Middle	3.0	27.80	27.80	27.80	8.04	8.04	8.04	29.87	29.87	29.87	75.4	75.5	75.3	5.01	5.02	5.01	9.22	9.22	9.21	6	6.00
	-	Amber Rainstorm	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	<u> </u>
17/8/18	-	Warning Signal	Middle	-	-	-	-	-	-		-	-		-	-	· -	-	-	-	-	-	-	-	-
04/0/40	15:35	Clauti	Middle	3.0	28.70	28.70	20.05	8.08	8.08	0.07	28.15	28.15	20.45	81.6	81.9	04.7	5.41	5.42	E 44	6.29	6.27	6.64	8	0.00
21/8/18	15:37	Cloudy	Middle	3.0	28.60	28.60	28.65	8.06	8.06	8.07	28.15	28.15	28.15	81.6	81.8	81.7	5.40	5.42	5.41	6.19	6.22	6.24	8	8.00
23/8/18	18:05	Fine	Middle	3.0	28.30	28.30	28.35	8.01	8.01	8.01	30.29	30.29	30.29	81.4	81.2	81.6	5.38	5.34	5.37	6.91	6.88	6.90	6	6.00
23/0/10	18:07		Middle	3.0	28.40	28.40	20.00	8.01	8.01	0.01	30.29	30.29	50.29	82.0	81.9	01.0	5.39	5.38	5.57	6.89	6.91	0.90	6	0.00
25/8/18	20:19	Cloudy	Middle	3.0	27.60	27.60	27.60	7.78	7.78	7.78	31.23	31.23	31.23	74.8	74.3	74.9	4.95	4.91	4.95	3.19	3.24	3.13	6	6.00
20,0/10	20:21	cicuary	Middle	3.0	27.60	27.60	200	7.78	7.78		31.23	31.23	020	74.9	75.4		4.96	4.99		3.12	2.96	0.10	6	0.00

Water Monitoring Result at P4 - SOC Mid-Flood Tide

Date	Time	Weater Condition		g Depth	Wat	er Temp	erature		pН			Salini ppt		D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	led Solids
		Contaition	r	n	Va	lue	Average	Va	lue	Average	Va	ilue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
28/7/18	22:27	Fine	Middle	3.0	29.40	29.40	29.40	7.93	7.92	7.93	29.45	29.45	29.45	77.2	75.9	76.4	4.94	4.86	4.89	2.32	2.39	2.26	4	4.50
	22:28		Middle	3.0	29.40	29.40		7.93	7.93		29.45	29.45		75.6	77.0		4.84	4.92		2.14	2.20		5	
30/7/18	6:20	Fine	Middle	2.5	28.60	28.60	28.60	8.07	8.07	8.07	27.93	27.93	27.93	72.6	72.4	72.5	4.73	4.72	4.72	1.07	1.05	1.06	<2	<2
	6:21		Middle	2.5	28.60	28.60		8.07	8.07		27.93	27.93		72.8	72.2		4.73	4.71		1.02	1.10		<2	
1/8/18	10:00	Cloudy	Middle	3.0	28.90	28.90	28.85	8.13	8.13	8.13	29.09	29.09	29.09	85.3	85.8	85.6	5.60	5.64	5.63	3.29	3.30	3.30	8	7.50
	10:02		Middle	3.0	28.80	28.80		8.13	8.13		29.09	29.09		85.7	85.7		5.63	5.63		3.31	3.31		7	
3/8/18	10:40	Fine	Middle	3.0	28.80	28.80	28.80	8.13	8.13	8.13	28.81	28.81	28.81	86.4	86.1	86.2	5.68	5.66	5.66	4.18	4.19	4.19	4	4.00
	10:42		Middle	3.0	28.80	28.80		8.13	8.13		28.81	28.81		86.0	86.2		5.64	5.67		4.18	4.20		4	
7/8/18	14:55	Fine	Middle	3.0	28.90	28.90	28.90	8.31	8.31	8.31	28.77	28.77	28.77	85.8	86.9	86.5	5.56	5.71	5.65	5.06	5.06	5.17	8	7.00
	14:57		Middle	3.0	28.90	28.90		8.31	8.31		28.77	28.77		86.5	86.6		5.66	5.67		5.28	5.28		6	
9/8/18	17:00 17:02	Fine	Middle	2.5	28.50	28.50	28.55	8.27 8.26	8.27 8.26	8.27	29.42	29.42	29.42	84.9 85.4	84.5	85.2	5.59	5.56	5.61	7.28	7.31 7.33	7.31	10 12	11.00
	20:42		Middle Middle	2.5 3.0	28.60 27.30	28.60 27.30		8.20	8.00		29.41	29.41 29.74		74.4	86.0 75.1		5.62 5.00	5.66		2.92			5	
11/8/18	20:42	Cloudy	Middle	3.0	27.30	27.30	27.30	8.00	8.00	8.00	29.74 29.74	29.74	29.74	74.4	73.6	74.5	5.00	5.04 4.94	5.00	2.92	2.31 2.42	2.55	6	5.50
	6:51		Middle	2.5	26.70	26.70		7.88	7.88		29.40	29.40		74.7	77.5		4.73	4.94		3.09	2.42		5	
13/8/18	6:52	Cloudy	Middle	2.5	26.70	26.70	26.70	7.88	7.88	7.88	29.40	29.40	29.40	76.3	76.4	76.2	4.85	4.86	4.84	2.86	3.02	2.98	4	4.50
	10:40		Middle	3.0	27.80	27.80		8.05	8.05		29.97	29.97		72.3	72.8		4.81	4.82		12.36	12.33		13	
15/8/18	10:42	Cloudy	Middle	3.0	27.80	27.80	27.80	8.05	8.05	8.05	29.97	29.97	29.97	73.2	73.3	72.9	4.87	4.88	4.85	12.32	12.32	<u>12.33</u>	13	13.00
	-	Amber Rainstorm	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
17/8/18	-	Warning Signal	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
04/0/40	15:40	Olaud	Middle	3.0	28.50	28.50	00.50	8.06	8.06	0.00	28.63	28.63	00.00	78.6	77.5	77.0	5.20	5.13	5.45	5.55	5.55	5.55	17	17.00
21/8/18	15:42	Cloudy	Middle	3.0	28.50	28.50	28.50	8.06	8.06	8.06	28.63	28.63	28.63	77.5	77.8	77.9	5.13	5.15	5.15	5.55	5.53	5.55	17	17.00
23/8/18	18:10	Fine	Middle	3.0	27.90	27.90	27.90	8.03	8.03	8.03	30.47	30.47	30.47	80.3	80.5	80.6	5.32	5.34	5.34	6.53	6.54	6.55	7	- 7.00
23/0/10	18:12		Middle	3.0	27.90	27.90	21.30	8.03	8.03	0.05	30.47	30.47	50.47	80.8	80.9	00.0	5.34	5.34	5.54	6.55	6.56	0.00	7	7.00
25/8/18	20:27	Cloudy	Middle	3.0	27.80	27.80	27.80	7.98	7.98	7.98	31.25	31.25	31.25	69.7	67.7	68.9	4.60	4.47	4.55	1.20	1.12	1.22	5	5.00
20/0/10	20:28	cloudy	Middle	3.0	27.80	27.80	1.00	7.98	7.98		31.25	31.25	01120	68.3	69.7	00.0	4.51	4.60		1.19	1.37		5	0.00

Water Monitoring Result at P5 - WCT / RT / IT Mid-Flood Tide

Image: state s	Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp	erature		pН			Salini ppt	ty	D	O Satur	ation		DO mg/L			Turbid NTU			led Solids
28/18 22.3 Fm Made 0.0 20.0 20.0 7.0 7.6 7.4 20.0 20.0 7.0 7.4 20.0 7.0 7.0 <th< td=""><td></td><td></td><td>Condition</td><td>r</td><td>n</td><td>Va</td><td>lue</td><td>Average</td><td>Va</td><td>lue -</td><td>Average</td><td>Va</td><td></td><td>Average</td><td>Va</td><td>70</td><td>Average</td><td>Va</td><td></td><td>Average</td><td>Va</td><td></td><td></td><td></td><td>g/∟ Average</td></th<>			Condition	r	n	Va	lue	Average	Va	lue -	Average	Va		Average	Va	70	Average	Va		Average	Va				g/∟ Average
1 1 1 1 1 <td>28/7/18</td> <td>22:33</td> <td>Fine</td> <td>Middle</td> <td>3.0</td> <td>29.30</td> <td>29.30</td> <td></td> <td>7.73</td> <td>7.75</td> <td></td> <td>29.26</td> <td>29.26</td> <td></td> <td>74.8</td> <td>77.4</td> <td></td> <td>4.80</td> <td>4.96</td> <td></td> <td>1.05</td> <td>1.05</td> <td></td> <td></td> <td>- <2</td>	28/7/18	22:33	Fine	Middle	3.0	29.30	29.30		7.73	7.75		29.26	29.26		74.8	77.4		4.80	4.96		1.05	1.05			- <2
Normal and basis Normal and basis <td>20/1/10</td> <td>22:34</td> <td>1 110</td> <td>Middle</td> <td>3.0</td> <td>29.30</td> <td>29.30</td> <td>20.00</td> <td>7.74</td> <td>7.74</td> <td>1.14</td> <td>29.26</td> <td>29.26</td> <td>20.20</td> <td>77.2</td> <td>77.5</td> <td>10.1</td> <td>4.95</td> <td>4.97</td> <td>4.02</td> <td>1.10</td> <td>1.12</td> <td>1.00</td> <td><2</td> <td>~</td>	20/1/10	22:34	1 110	Middle	3.0	29.30	29.30	20.00	7.74	7.74	1.14	29.26	29.26	20.20	77.2	77.5	10.1	4.95	4.97	4.02	1.10	1.12	1.00	<2	~
10% 10% <	30/7/18	6:27	Fine	Middle	2.5	28.40	28.40	28.40	8.11	8.11	8.11	27.85	27.85	27.90	74.8	74.9	73.9	4.94	4.91	4.85	1.09	1.12	1.13	2	2.00
19/14 10/14 <th< td=""><td></td><td>6:28</td><td></td><td>Middle</td><td>2.5</td><td>28.40</td><td>28.40</td><td></td><td>8.11</td><td>8.11</td><td></td><td>27.95</td><td>27.95</td><td></td><td>73.5</td><td>72.4</td><td></td><td>4.81</td><td>4.73</td><td></td><td>1.16</td><td>1.14</td><td></td><td><2</td><td></td></th<>		6:28		Middle	2.5	28.40	28.40		8.11	8.11		27.95	27.95		73.5	72.4		4.81	4.73		1.16	1.14		<2	
3 4 4 4 5 5 5 5 <	1/8/18	10:05	Cloudy	Middle	3.0	28.70	28.70	28.70	8.10	8.10	8.11	29.18	29.18	29.18	88.9	89.3	89.2	5.85	5.88	5.87	3.95	3.87	3.92	10	9.50
38/14 1047 <td></td> <td>10:07</td> <td></td> <td>Middle</td> <td>3.0</td> <td>28.70</td> <td>28.70</td> <td></td> <td>8.11</td> <td>8.11</td> <td></td> <td>29.18</td> <td>29.18</td> <td></td> <td>89.4</td> <td>89.2</td> <td></td> <td>5.88</td> <td>5.87</td> <td></td> <td>3.97</td> <td>3.88</td> <td></td> <td>9</td> <td></td>		10:07		Middle	3.0	28.70	28.70		8.11	8.11		29.18	29.18		89.4	89.2		5.88	5.87		3.97	3.88		9	
15.00 16.00 16.00 16.00 16.00 16.00 28.00 <td>3/8/18</td> <td>10:45</td> <td>Fine</td> <td>Middle</td> <td>3.0</td> <td>28.70</td> <td>28.70</td> <td>28.70</td> <td>8.13</td> <td>8.13</td> <td>8.14</td> <td>28.99</td> <td>28.99</td> <td>28.99</td> <td>85.5</td> <td>85.5</td> <td>85.7</td> <td>5.63</td> <td>5.63</td> <td>5.65</td> <td>4.62</td> <td>4.56</td> <td>4.57</td> <td>5</td> <td>6.00</td>	3/8/18	10:45	Fine	Middle	3.0	28.70	28.70	28.70	8.13	8.13	8.14	28.99	28.99	28.99	85.5	85.5	85.7	5.63	5.63	5.65	4.62	4.56	4.57	5	6.00
7/6/19 15/02 16/14 3.0 2.8.0 2.8.0 8.2.0 2.8.0 <th2< td=""><td></td><td>10:47</td><td></td><td>Middle</td><td>3.0</td><td>28.70</td><td>28.70</td><td></td><td>8.14</td><td>8.14</td><td></td><td>28.99</td><td>28.99</td><td></td><td>85.9</td><td>85.9</td><td></td><td>5.66</td><td>5.66</td><td></td><td>4.56</td><td>4.54</td><td></td><td>7</td><td></td></th2<>		10:47		Middle	3.0	28.70	28.70		8.14	8.14		28.99	28.99		85.9	85.9		5.66	5.66		4.56	4.54		7	
17.05 17.05 <t< td=""><td>7/8/18</td><td>15:00</td><td>Fine</td><td>Middle</td><td>3.0</td><td>28.80</td><td>28.80</td><td>28.80</td><td>8.29</td><td>8.29</td><td>8.29</td><td>28.81</td><td>28.81</td><td>28.75</td><td>83.5</td><td>84.2</td><td>83.8</td><td>5.49</td><td>5.54</td><td>5.52</td><td>4.97</td><td>4.97</td><td>5.07</td><td>9</td><td>8.50</td></t<>	7/8/18	15:00	Fine	Middle	3.0	28.80	28.80	28.80	8.29	8.29	8.29	28.81	28.81	28.75	83.5	84.2	83.8	5.49	5.54	5.52	4.97	4.97	5.07	9	8.50
9/8/18 17:0 Fine Midde 2.6 <th< td=""><td></td><td>15:02</td><td></td><td>Middle</td><td>3.0</td><td>28.80</td><td>28.80</td><td></td><td>8.29</td><td>8.29</td><td></td><td>28.69</td><td>28.69</td><td></td><td>83.4</td><td>84.1</td><td></td><td>5.49</td><td>5.54</td><td></td><td>5.16</td><td>5.16</td><td></td><td>8</td><td></td></th<>		15:02		Middle	3.0	28.80	28.80		8.29	8.29		28.69	28.69		83.4	84.1		5.49	5.54		5.16	5.16		8	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	9/8/18		Fine	Middle	2.5	28.40	28.40	28.40	8.27	8.27	8.28	29.49	29.49	29.49	83.7	85.9	85.6	5.52	5.67	5.65	6.77	6.84	6.79		9.00
11/8/18 1 1 1 1 </td <td></td> <td>17:07</td> <td></td> <td>Middle</td> <td>2.5</td> <td>28.40</td> <td>28.40</td> <td></td> <td>8.28</td> <td>8.28</td> <td></td> <td>29.49</td> <td>29.49</td> <td></td> <td>86.5</td> <td>86.4</td> <td></td> <td>5.71</td> <td>5.70</td> <td></td> <td>6.77</td> <td>6.78</td> <td></td> <td>10</td> <td></td>		17:07		Middle	2.5	28.40	28.40		8.28	8.28		29.49	29.49		86.5	86.4		5.71	5.70		6.77	6.78		10	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	11/8/18		Cloudy	Middle	3.0	27.20	27.20	27.20		7.87	7.87		29.78	29.78	74.5	75.2	74.8	5.01	5.03	5.02	1.19	1.27	1.24		5.50
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$																									
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	13/8/18		Cloudy					27.10	-		7.87			29.40			78.2			4.90			3.93		5.50
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$																									
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	15/8/18		Cloudy					27.80			8.06			29.99			76.3			4.82			11.25		10.00
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		10:47	Amber							8.06			29.99			76.5			4.08			11.20			<u> </u>
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	17/8/18	-	Rainstorm		-	-	-	-	-	-	-	-	-	-	-	-	· -		-	-	-	-		-	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		- 15:4E	Signal			28.50	- 29.50		- 9.05	- 8.05		-	- 29.94		-	-			- 5 12		-	5.60		-	<u> </u>
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	21/8/18		Cloudy					28.50			8.05			28.84			77.3			5.10			5.61		10.00
23/8/18 Fine Fine Image: Constraint of the state of t		-				1																		-	<u> </u>
	23/8/18		Fine					27.90			8.03			30.47			79.4			5.25			6.97		7.00
20:35 Middle 3.0 27.90 27.90 7.96 7.97 31.22 31.22 74.9 76.2 4.93 5.02 2.89 2.67 6		-		Middle		27.90	27.90		7.96			31.22	31.22		-			4.93						6	<u> </u>
	25/8/18		Cloudy					27.90			7.87			31.22			75.3			4.96			2.65		6.00

Water Monitoring Result at RW21-P789 - GEC/CRB/SHK Mid-Flood Tide

Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp	perature		pН			Salini		D	O Satur	ation		DO ma/L			Turbid NTI	ity	Suspend	led Solids
		Condition	r	n	Va	lue	Average	Va	lue -	Average	Va	ppt lue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	g/∟ Average
28/7/18	19:00	Fine	Middle	3.5	29.40	29.40	29.40	7.92	7.92	7.92	28.55	28.55	28.55	72.6	75.7	74.7	4.67	4.86	4.80	1.09	1.05	1.09	4	4.00
	19:01		Middle	3.5	29.40	29.40		7.92	7.92		28.55	28.55		76.3	74.3		4.90	4.77		1.09	1.13		4	
30/7/18	5:47	Fine	Middle	3.5	28.60	28.60	28.60	7.98	7.98	7.98	28.37	28.37	28.37	72.8	74.9	72.8	4.82	4.94	4.82	1.23	1.20	1.26	2	2.50
	5:48		Middle	3.5	28.60	28.60		7.98	7.98		28.37	28.37		72.2	71.4		4.78	4.73		1.31	1.28		3	
1/8/18	7:45	Cloudy	Middle	3.5	29.40	29.40	29.45	7.91	7.91	7.95	28.20	28.20	28.20	88.5	88.7	88.5	5.78	5.79	5.78	3.59	3.58	3.58	8	8.50
	7:47		Middle	3.5	29.50	29.50		7.98	7.98		28.20	28.20		88.9	88.0		5.80	5.74		3.57	3.57		9	
3/8/18	8:00	Fine	Middle	4.0	29.10	29.10	29.20	7.89	7.89	7.89	28.38	28.38	28.38	91.3	91.8	90.9	5.98	6.01	5.95	4.44	4.50	4.49	3	4.00
	8:02		Middle	4.0	29.30	29.30		7.89	7.89		28.38	28.38		90.6	90.0		5.94	5.88		4.53	4.49		5	
7/8/18	15:35	Fine	Middle	4.0	28.70	28.70	28.70	8.19	8.19	8.20	28.86	28.86	28.86	98.2	97.1	97.9	6.47	6.40	6.45	3.20	3.20	3.19	5	5.50
	15:37		Middle	4.0	28.70	28.70		8.21	8.21		28.86	28.86		98.0	98.1		6.46	6.46		3.18	3.18		6	
9/8/18	17:20	Fine	Middle	3.5	28.70	28.70	28.75	8.22	8.22	8.23	29.44	29.44	29.45	90.3	90.1	89.7	5.92	5.91	5.88	5.06	5.11	5.09	8	8.00
	17:22		Middle	3.5	28.80	28.80		8.23	8.23		29.45	29.45		89.7	88.6		5.88	5.80		5.10	5.10		8	
11/8/18	21:26	Cloudy	Middle	4.0	27.20	27.20	27.20	7.80	7.80	7.80	29.66	29.66	29.66	78.3	80.0	79.2	5.27	5.38	5.33	1.59	1.15	1.29	4	3.00
	21:27		Middle	4.0	27.20	27.20		7.80	7.80		29.66	29.66		79.3	79.1		5.33	5.32		1.19	1.24		2	
13/8/18	6:20	Cloudy	Middle	3.5	27.30	27.30	27.30	7.98	7.98	7.98	29.50	29.50	29.50	76.3	75.6	76.6	4.96	4.92	4.97	1.37	1.28	1.51	6	5.50
	6:21		Middle	3.5	27.30	27.30		7.98	7.98		29.50	29.50		77.2	77.1		5.01	5.00		1.74	1.66		5	
15/8/18	7:50	Cloudy	Middle	4.0	27.70	27.70	27.70	7.94	7.94	7.95	29.75	29.75	29.76	81.6	81.1	81.3	5.44	5.40	5.41	9.00	9.01	9.00	6	6.00
	7:52		Middle	4.0	27.70	27.70		7.96	7.96		29.76	29.76		80.9	81.4		5.39	5.42		9.00	9.00		6	
17/8/18	-	Amber Rainstorm	Middle	-	-	-	-	-	-	-	-	-		-	-		-	-	-	-	-		-	
	-	Warning Signal	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
21/8/18	16:15	Cloudy	Middle	4.0	28.80	28.80	28.85	8.03	8.03	8.04	28.24	28.24	28.24	87.6	87.1	86.4	5.78	5.79	5.71	5.08	5.07	5.07	8	8.00
	16:17		Middle	4.0	28.90	28.90		8.04	8.04		28.24	28.24		85.5	85.3		5.63	5.63		5.06	5.06		8	<u> </u>
23/8/18	18:55	Fine	Middle	3.5	28.10	28.10	28.10	8.00	8.00	8.00	30.44	30.44	30.44	84.9	84.9	84.4	5.60	5.61	5.57	5.32	5.29	5.29	6	6.00
	18:57		Middle	3.5	28.10	28.10		8.00	8.00		30.43	30.43		84.0	83.8		5.54	5.53		5.28	5.28		6	<u> </u>
25/8/18	21:30	Cloudy	Middle	4.0	28.40	28.40	28.40	7.88	7.88	7.88	31.22	31.22	31.22	70.1	70.5	70.2	4.58	4.61	4.59	1.82	2.02	1.86	6	6.00
	21:31	-	Middle	4.0	28.40	28.40		7.88	7.88		31.22	31.22		70.3	70.0		4.59	4.57		1.89	1.69		6	

Water Monitoring Result at WSD19 - Sheung Wan Mid-Flood Tide

Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp	erature		pН			Salini ppt	ty	D	O Satur	ation		DO ma/L			Turbid NTL		Suspend	led Solids
		Condition	r	n	Va	ilue	Average	Va	- Ilue	Average	Va	lue ppt	Average	Va	llue	Average	Va	lue	Average	Va	alue	Average	Value	Average
	19:50		Middle	3.5	29.50	29.50		7.85	7.85		28.37	28.37		74.5	77.9		4.78	5.01		1.47	1.39		3	
28/7/18	19:51	Fine	Middle	3.5	29.50	29.50	29.50	7.85	7.85	7.85	28.37	28.37	28.37	75.9	75.6	76.0	4.87	4.86	4.88	1.42	1.35	1.41	2	2.50
30/7/18	6:43	Fine	Middle	3.5	29.30	29.30	29.30	7.94	7.94	7.94	27.94	27.94	27.94	76.0	76.4	76.2	4.98	5.01	4.99	1.37	1.35	1.29	3	3.00
30/1/18	6:44	1 me	Middle	3.5	29.30	29.30	29.30	7.94	7.94	7.54	27.94	27.94	27.94	75.1	77.2	70.2	4.92	5.05	4.55	1.19	1.25	1.29	3	3.00
1/8/18	8:45	Cloudy	Middle	4.0	29.30	29.30	29.35	7.90	7.90	7.95	28.39	28.39	28.44	91.2	91.3	90.2	5.96	5.96	5.89	3.95	3.94	3.95	9	10.00
	8:47	,	Middle	4.0	29.40	29.40		7.99	7.99		28.48	28.48		89.4	89.0		5.83	5.80		3.95	3.95		11	
3/8/18	9:25	Fine	Middle	4.0	29.60	29.60	29.65	7.98	7.98	8.00	28.23	28.23	28.24	93.9	93.9	92.8	6.11	6.11	6.04	7.01	7.00	7.01	5	5.50
3/6/16	9:27	Time	Middle	4.0	29.70	29.70	29.03	8.02	8.02	0.00	28.24	28.24	20.24	92.0	91.5	92.0	5.99	5.95	0.04	7.00	7.02	7.01	6	5.50
7/8/18	13:15	Fine	Middle	3.5	30.00	30.00	30.05	8.12	8.12	8.14	28.79	28.79	28.80	94.7	94.8	94.4	6.11	6.11	6.09	6.25	6.25	6.21	13	12.00
	13:17	1 1110	Middle	3.5	30.10	30.10	00.00	8.15	8.15	0.111	28.80	28.80	20.00	94.4	93.8	0.11	6.08	6.05	0.00	6.17	6.16	0121	11	12.00
9/8/18	15:45	Fine	Middle	3.5	29.50	29.50	29.60	8.15	8.15	8.15	29.56	29.56	29.56	88.4	89.4	88.3	5.71	5.77	5.70	7.62	7.62	7.61	10	10.50
0,0,10	15:47	1	Middle	3.5	29.70	29.70	20.00	8.15	8.15	0.10	29.56	29.56	20.00	87.3	88.2	00.0	5.63	5.69	0.10	7.58	7.63		11	
11/8/18	18:50	Cloudy	Middle	3.5	27.30	27.30	27.30	7.86	7.86	7.86	29.25	29.25	29.25	76.0	77.6	76.7	5.10	5.23	5.16	8.83	8.51	8.59	11	11.00
11/0/10	18:51	Cloudy	Middle	3.5	27.30	27.30	21.50	7.86	7.86	7.00	29.25	29.25	23.23	77.4	75.7	10.1	5.21	5.10	5.10	8.44	8.59	0.00	11	11.00
13/8/18	7:25	Cloudy	Middle	4.0	27.10	27.10	27.10	7.94	7.94	7.94	29.51	29.51	29.51	78.7	78.9	78.0	5.05	5.07	5.01	8.51	8.47	8.43	7	6.50
10,0,10	7:26	cloudy	Middle	4.0	27.10	27.10	20	7.94	7.94		29.51	29.51	20101	77.0	77.5	10.0	4.95	4.97	0.01	8.43	8.29	0110	6	0.00
15/8/18	8:40	Cloudy	Middle	4.0	27.90	27.90	27.90	7.95	7.95	7.97	30.04	30.04	30.05	87.2	86.1	85.8	5.75	5.71	5.69	17.65	17.66	17.65	20	20.00
	8:42	,	Middle	4.0	27.90	27.90		7.98	7.98		30.05	30.05		85.5	84.5		5.68	5.60		17.63	17.64		20	
17/8/18	-	Amber Rainstorm	Middle	-	-	-	-	-	-	_	-	-	_	-	-	-	-	-	-	-	-	_	-	_
11/0/10	-	Warning Signal	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
21/8/18	14:00	Cloudy	Middle	3.5	28.50	28.50	28.50	8.00	8.00	8.01	28.94	28.94	28.94	81.8	81.7	81.7	5.41	5.39	5.40	6.88	6.89	6.88	9	9.50
2	14:02	cloudy	Middle	3.5	28.50	28.50	20.00	8.02	8.02	0.01	28.94	28.94	20.04	81.9	81.5	0	5.41	5.38	0.10	6.85	6.89	0.00	10	0.00
23/8/18	18:15	Fine	Middle	3.5	29.00	29.00	28.95	7.96	7.96	7.98	30.29	30.29	30.31	87.7	85.8	85.0	5.72	5.59	5.54	7.40	7.42	7.41	7	7.50
	18:17		Middle	3.5	28.90	28.90		8.00	8.00		30.32	30.32		83.3	83.0		5.43	5.41		7.42	7.41		8	
25/8/18	18:35	Cloudy	Middle	3.5	28.40	28.40	28.40	7.79	7.80	7.80	30.37	30.37	30.37	75.7	77.3	76.6	4.93	5.08	5.04	4.44	4.38	4.34	7	7.00
	18:36		Middle	3.5	28.40	28.40		7.81	7.81		30.37	30.37		77.2	76.1		5.07	5.08		4.24	4.30		7	

Water Monitoring Result at C7 - Windsor House Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	ng Depth	Wat	er Temp	erature		pН			Salini	ty	C	O Satur	ration		DO ma/			Turbic NTL			led Solids
		Condition	n	n	Va	lue	Average	Va	- Ilue	Average	Va	ppt ilue	Average	Va	% alue	Average	Va	mg/L lue	Average	Va	alue	Average	mq Value	g/L Average
28/7/18	10:05	Fine	Middle	2	29.70	29.70	29.75	7.84	7.84	7.85	29.28	29.28	29.28	85.6	86.2	85.4	5.53	5.56	5.51	2.32	2.37	2.35	2	3.00
20/7/10	10:07	Fine	Middle	2	29.80	29.80	29.75	7.86	7.86	7.65	29.28	29.28	29.28	85.0	84.8	65.4	5.48	5.47	5.51	2.35	2.34	2.30	4	3.00
30/7/18	15:35	Fine	Middle	2	31.30	31.30	31.35	8.07	8.07	8.09	27.92	27.92	27.93	95.5	95.8	94.8	6.01	6.07	5.99	2.30	2.31	2.31	3	2.50
30/1/10	15:37	i ille	Middle	2	31.40	31.40	51.55	8.10	8.10	8.09	27.93	27.93	21.95	93.6	94.4	94.0	5.92	5.97	5.55	2.30	2.32	2.31	2	2.50
1/8/18	15:30	Fine	Middle	2	30.40	30.40	30.50	8.18	8.18	8.19	27.48	27.48	27.48	99.5	99.2	98.9	6.41	6.39	6.36	2.96	2.89	2.92	5	6.00
1/0/10	15:32	T IIIO	Middle	2	30.60	30.60	00.00	8.20	8.20	0.10	27.48	27.48	21.40	98.4	98.3	00.0	6.33	6.32	0.00	2.91	2.92	2.02	7	0.00
3/8/18	16:40	Fine	Middle	2	29.50	29.50	29.55	8.15	8.15	8.13	27.69	27.69	27.69	94.1	94.0	93.9	6.15	6.15	6.14	3.15	3.11	3.12	4	3.00
3/0/10	16:42	Tille	Middle	2	29.60	29.60	20.00	8.10	8.10	0.10	27.68	27.68	27.03	93.7	93.6	55.5	6.13	6.13	0.14	3.11	3.09	3.12	2	3.00
7/8/18	8:05	Fine	Middle	2	29.40	29.40	29.40	7.95	7.95	7.96	28.32	28.32	28.32	85.7	85.6	84.5	5.70	5.69	5.57	2.04	2.05	2.05	5	5.50
110/10	8:07	T IIIO	Middle	2	29.40	29.40	20.40	7.96	7.96	1.00	28.32	28.32	20.02	83.4	83.2	04.0	5.45	5.43	0.07	2.06	2.06	2.00	6	0.00
9/8/18	9:55	Fine	Middle	2	28.60	28.60	28.75	8.02	8.02	8.02	29.47	29.47	29.47	85.2	85.3	84.7	5.59	5.59	5.55	2.48	2.54	2.52	4	4.50
0,0,10	9:57		Middle	2	28.90	28.90	20.10	8.02	8.02	0.02	29.46	29.46	20111	84.1	84.3	0	5.51	5.52	0.00	2.54	2.53	2.02	5	
11/8/18	-	Amber Rainstorm	Middle	-	-	-	-	-	-		-	-		-	-		-	-	_	-	-		-	
11/0/10	-	Warning Signal	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
13/8/18	15:23	Fine	Middle	2	28.60	28.60	28.70	7.97	7.97	7.98	29.35	29.35	29.35	62.8	62.8	60.6	4.12	4.12	3.96	2.13	2.13	2.14	9	9.00
10,0,10	15:25		Middle	2	28.80	28.80	2011 0	7.98	7.98	1100	29.34	29.34	20.00	58.3	58.3	0010	3.79	3.79	0.00	2.15	2.15	2	9	0.00
15/8/18	16:30	Fine	Middle	2	28.70	28.70	28.80	8.02	8.02	8.02	29.36	29.36	29.36	74.8	74.6	73.9	4.92	4.90	4.85	2.44	2.46	2.46	2	2.00
	16:32	-	Middle	2	28.90	28.90		8.02	8.02		29.36	29.36		73.4	72.6		4.81	4.76		2.46	2.46	-	2	
17/8/18	16:10	Cloudy	Middle	2	28.00	28.00	28.05	8.04	8.04	8.04	25.97	25.97	25.97	74.8	75.0	74.5	5.06	5.08	5.80	4.44	4.44	4.44	4	3.50
	16:12		Middle	2	28.10	28.10		8.04	8.04		25.97	25.97		74.1	74.1		8.02	5.02		4.42	4.44		3	
21/8/18	8:10	Fine	Middle	2	28.30	28.30	28.35	7.97	7.97	7.96	26.22	26.22	26.22	74.6	74.6	74.7	5.01	5.01	5.02	3.69	3.69	3.69	4	- 3.50
	8:12		Middle	2	28.40	28.40		7.95	7.95		26.22	26.22		74.8	74.8		5.02	5.03		3.68	3.68		3	
23/8/18	12:30	Cloudy	Middle	2	27.40	27.40	27.40	7.98	7.98	7.99	23.36	23.36	23.36	80.9	80.9	81.0	5.61	5.61	5.62	6.89	6.90	6.91	4	4.50
	12:32	,	Middle	2	27.40	27.40		7.99	7.99		23.36	23.36		81.0	81.1		5.62	5.63		6.89	6.94		5	
25/8/18	12:02	Fine	Middle	2	28.10	28.10	28.15	8.07	8.07	8.07	29.74	29.74	29.75	80.3	80.5	80.4	5.31	5.32	5.31	5.05	5.06	5.05	4	4.00
	12:04		Middle	2	28.20	28.20		8.06	8.06		29.75	29.75		80.4	80.4		5.31	5.31		5.04	5.03		4	

Water Monitoring Result at C1 - HKCEC Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp	erature		pH -			Salinit	у	D	O Satur	ation		DO			Turbid NTL		Suspend	
		Condition	r	n	Va	ilue	Average	Va	- Ilue	Average	Va	ppt lue	Average	Va	% Ilue	Average	Va	mg/L lue	Average	Va	lue	Average	mq Value	g/L Average
28/7/18	13:30	Fine	Middle	2.5	29.40	29.40	29.40	8.12	8.12	8.12	29.84	29.84	29.84	85.6	84.7	85.4	5.58	5.52	5.57	2.31	2.90	2.49	2	3.00
20/7/18	13:32	Fine	Middle	2.5	29.40	29.40	29.40	8.12	8.12	0.12	29.84	29.84	29.64	85.5	85.6	65.4	5.58	5.58	5.57	2.38	2.36	2.49	4	3.00
30/7/18	14:30	Fine	Middle	3.0	30.10	30.10	30.10	8.27	8.27	8.27	28.48	28.48	28.51	95.9	97.1	96.5	6.19	6.27	6.23	3.32	3.30	3.30	7	7.00
30/7/10	14:32	FILIE	Middle	3.0	30.10	30.10	30.10	8.27	8.27	0.27	28.53	28.53	20.31	96.4	96.4	90.5	6.22	6.22	0.23	3.29	3.30	3.30	7	7.00
1/8/18	14:40	Fine	Middle	2.5	29.80	29.80	29.75	8.29	8.29	8.29	28.08	28.08	28.09	98.5	98.4	98.4	6.41	6.40	6.40	4.07	4.07	4.04	16	15.00
110/10	14:42	T IIIO	Middle	2.5	29.70	29.70	20.70	8.29	8.29	0.20	28.09	28.09	20.00	98.4	98.4	50.4	6.40	6.40	0.40	4.00	4.02	+.0+	14	10.00
3/8/18	16:20	Fine	Middle	2.5	29.20	29.20	29.20	8.30	8.30	8.30	28.16	28.16	28.16	97.3	97.3	97.0	6.39	6.39	6.37	4.29	4.30	4.32	5	5.50
3/6/10	16:22	i ille	Middle	2.5	29.20	29.20	29.20	8.30	8.30	0.50	28.16	28.16	20.10	97.0	96.5	97.0	6.36	6.33	0.57	4.34	4.35	4.52	6	3.50
7/8/18	10:10	Fine	Middle	2.5	28.80	28.80	28.80	8.29	8.29	8.29	28.37	28.37	28.37	92.2	92.5	92.2	6.08	6.10	6.08	3.49	3.54	3.49	4	4.50
110/10	10:12	T IIIe	Middle	2.5	28.80	28.80	20.00	8.29	8.29	0.23	28.37	28.37	20.57	92.1	92.1	52.2	6.07	6.07	0.00	3.46	3.46	3.40	5	4.00
9/8/18	10:50	Fine	Middle	2.5	29.00	29.00	29.00	8.34	8.34	8.35	29.00	29.00	29.01	91.8	91.9	91.8	6.06	6.06	6.06	3.58	3.58	3.61	8	7.00
3/0/10	10:52	T IIIe	Middle	2.5	29.00	29.00	23.00	8.35	8.35	0.00	29.01	29.01	20.01	91.7	91.7	51.0	6.05	6.05	0.00	3.62	3.65	5.01	6	7.00
11/8/18	-	Amber Rainstorm	Middle	-	-	-	_	-	-	_	-	-	_	-	-	_	-	-	_	-	-		-	
11/0/10	-	Warning Signal	Middle	-	-	-	-	-	-	_	-	-	-	-	-	_	-	-	-	-	-	-	-	_
13/8/18	14:45	Fine	Middle	3.0	28.20	28.20	28.25	8.02	8.02	8.03	29.59	29.59	29.60	77.3	77.7	77.9	5.11	5.13	5.14	6.90	6.93	6.85	6	6.50
10/0/10	14:47	T IIIO	Middle	3.0	28.30	28.30	20.20	8.03	8.03	0.00	29.60	29.60	20.00	78.0	78.6	11.5	5.15	5.15	0.14	6.78	6.78	0.00	7	0.00
15/8/18	15:50	Fine	Middle	3.0	28.20	28.20	28.20	8.04	8.04	8.04	29.88	29.88	29.88	74.4	74.8	74.7	4.91	4.93	4.93	8.28	8.29	8.30	9	9.00
10/0/10	15:52	T IIIO	Middle	3.0	28.20	28.20	20.20	8.04	8.04	0.04	29.88	29.88	20.00	74.5	75.0		4.92	4.95	4.00	8.30	8.31	0.00	9	0.00
17/8/18	15:25	Cloudy	Middle	3.0	28.10	28.10	28.10	8.04	8.04	8.04	29.72	29.72	29.72	74.1	75.2	75.5	4.91	4.98	5.00	7.22	7.22	7.22	7	7.50
11/0/10	15:27	Cloudy	Middle	3.0	28.10	28.10	20.10	8.04	8.04	0.04	29.72	29.72	20.72	76.1	76.5	10.0	5.04	5.06	0.00	7.21	7.21	1.22	8	1.00
21/8/18	10:30	Fine	Middle	2.5	28.50	28.50	28.50	8.06	8.06	8.06	28.23	28.23	28.23	79.8	80.5	80.7	5.29	5.34	5.35	3.95	3.95	3.96	4	4.00
21/0/10	10:32	1 1110	Middle	2.5	28.50	28.50	20.00	8.06	8.06	0.00	28.23	28.23	20.20	81.1	81.2	00.7	5.38	5.38	0.00	3.96	3.96	0.00	4	4.00
23/8/18	11:10	Cloudy	Middle	2.5	27.60	27.60	27.60	8.04	8.04	8.04	29.72	27.72	29.22	79.5	79.5	79.8	5.31	5.32	5.34	5.25	5.26	5.26	3	3.50
20/0/10	11:12	Cloudy	Middle	2.5	27.60	27.60	21.00	8.04	8.04	0.04	29.72	29.72	20.22	80.2	80.1	10.0	5.36	5.35	0.04	5.27	5.26	0.20	4	0.00
25/8/18	11:25	Fine	Middle	3.0	27.50	27.50	27.50	8.09	8.09	8.09	31.15	31.15	31.16	84.6	84.6	84.3	5.61	5.61	5.59	5.61	5.64	5.66	6	6.00
20,0/10	11:27		Middle	3.0	27.50	27.50	2::00	8.08	8.08	0.00	31.16	31.16	00	84.0	83.8	0.0	5.57	5.56	5.55	5.73	5.67	0.00	6	0.00

Water Monitoring Result at P1 - HKCEC Phase I Mid-Ebb Tide

Date	Time	Weater	Samplin	ng Depth	Wat	er Temp	erature		pН			Salini	ty	C	O Satur	ration		DO			Turbic NTL			led Solids
		Condition	r	n	Va	lue	Average	Va	- Ilue	Average	Va	ppt alue	Average	Va	% alue	Average	Va	mg/L lue	Average	Va	alue	Average	mq Value	g/L Average
28/7/18	13:10	Fine	Middle	2.5	30.10	30.10	30.15	8.05	8.05	8.07	28.74	28.74	28.74	96.3	96.0	95.9	6.21	6.18	6.18	2.11	2.17	2.16	2	2.50
20/1/10	13:12	T IIIO	Middle	2.5	30.20	30.20	00.10	8.08	8.08	0.07	28.74	28.74	20.14	95.8	95.4	00.0	6.17	6.14	0.10	2.18	2.17	2.10	3	2.00
30/7/18	14:10	Fine	Middle	3.0	30.90	30.90	31.15	8.19	8.19	8.20	28.73	28.73	28.74	103.2	103.3	102.4	6.51	6.52	6.46	3.50	3.47	3.48	6	6.00
	14:12		Middle	3.0	31.40	31.40		8.20	8.20		28.74	28.74		101.2	101.7		6.38	6.41		3.46	3.50		6	
1/8/18	14:20	Fine	Middle	2.5	30.50	30.50	30.55	8.19	8.19	8.20	28.15	28.15	28.16	99.9	99.7	99.0	6.41	6.40	6.35	4.48	4.45	4.47	16	17.00
	14:22		Middle	2.5	30.60	30.60		8.21	8.21		28.16	28.16		98.2	98.3		6.29	6.30		4.45	4.49		18	
3/8/18	16:00	Fine	Middle	2.5	29.70	29.70	29.80	8.21	8.21	8.23	28.15	28.15	28.15	102.2	101.5	102.1	6.64	6.61	6.63	4.07	4.08	4.04	4	3.50
	16:02		Middle	2.5	29.90	29.90		8.25	8.25		28.15	28.15		102.2	102.5		6.63	6.65		4.00	4.02		3	
7/8/18	9:50	Fine	Middle	2.5	29.40	29.40	29.45	8.16	8.16	8.18	28.50	28.50	28.50	98.9	99.2	98.8	6.46	6.47	6.46	3.31	3.30	3.33	8	8.50
	9:52		Middle	2.5	29.50	29.50		8.20	8.20		28.49	28.49		98.6	98.6		6.45	6.45		3.35	3.34		9	
9/8/18	10:30	Fine	Middle	2.5	29.40	29.40	29.50	8.16	8.16	8.18	29.53	29.53	29.53	94.9	95.7	95.1	6.15	6.20	6.16	4.36	4.33	4.32	7	6.00
	10:32		Middle	2.5	29.60	29.60		8.19	8.19		29.53	29.53		95.0	94.7		6.15	6.13		4.30	4.29		5	
11/8/18	-	Amber Rainstorm	Middle	-	-	-	-	-	-		-	-		-	-		-	-	-	-	-		-	
	-	Warning Signal	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
13/8/18	14:25	Fine	Middle	3.0	29.10	29.10	29.15	7.95	7.95	7.95	29.72	29.72	29.72	80.4	79.9	80.3	5.23	5.20	5.22	5.98	5.99	5.95	7	7.00
	14:27		Middle	3.0	29.20	29.20		7.95	7.95		29.72	29.72		80.0	80.8		5.20	5.26		5.92	5.92		7	
15/8/18	15:30	Fine	Middle	3.0	28.90	28.90	29.00	8.00	8.00	8.01	29.95	29.95	29.95	86.5	86.6	86.1	5.63	5.64	5.61	8.25	8.24	8.24	11	- 11.00
	15:32		Middle	3.0	29.10	29.10		8.01	8.01		29.95	29.95		85.6	85.8		5.57	5.59		8.24	8.24		11	
17/8/18	15:05	Cloudy	Middle	3.0	28.00	28.00	28.05	8.03	8.03	8.04	29.90	29.90	29.90	73.2	73.8	74.8	4.83	4.89	4.88	6.95	6.97	6.98	8	8.50
	15:07		Middle	3.0	28.10	28.10		8.04	8.04		29.90	29.90		78.0	74.0		4.88	4.90		6.99	7.02		9	
21/8/18	10:10	Fine	Middle	2.5	29.10	29.10	29.10	8.01	8.01	8.02	28.08	28.08	28.08	86.8	86.7	86.2	5.71	5.70	5.67	5.06	5.06	5.06	5	5.00
	10:12		Middle	2.5	29.10	29.10		8.02	8.02		28.08	28.08		85.5	85.7		5.62	5.63		5.06	5.06		5	ļ
23/8/18	10:50	Cloudy	Middle	2.5	27.90	27.90	27.90	7.94	7.94	7.97	29.97	29.97	29.98	82.6	82.6	82.3	5.48	5.48	5.46	5.19	5.23	5.15	4	4.00
	10:52		Middle	2.5	27.90	27.90		7.99	7.99		29.98	29.98		81.8	82.3		5.43	5.46		5.08	5.08		4	<u> </u>
25/8/18	11:05	Fine	Middle	3.0	28.50	28.50	28.60	8.04	8.04	8.05	31.32	31.32	31.32	91.1	91.1	89.9	5.92	5.92	5.84	6.11	6.06	6.06	6	6.00
	11:07		Middle	3.0	28.70	28.70		8.05	8.05		31.32	31.32		89.1	88.4		5.78	5.74		6.00	6.07		6	

Water Monitoring Result at P3 - APA Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp	erature		pН			Salinit	у		O Satur	ration		DO mg/L			Turbid NTU		Suspend	led Solids
		Condition	r	n	Va	lue	Average	Va	- lue	Average	Va	ppt alue	Average	Va	alue	Average	Va	lue	Average	Va	alue	Average	Value	g/∟ Average
28/7/18	13:15	Fine	Middle	2.5	29.60	29.60	29.65	8.09	8.09	8.10	28.78	28.78	28.78	88.4	88.2	87.7	5.74	5.72	5.70	2.52	2.58	2.55	3	2.50
201110	13:17	T IIIC	Middle	2.5	29.70	29.70	20.00	8.10	8.10	0.10	28.78	28.78	20.70	87.4	86.7	01.1	5.67	5.67	0.70	2.53	2.57	2.00	2	2.00
30/7/18	14:15	Fine	Middle	3.0	30.30	30.30	30.40	8.23	8.23	8.23	28.58	28.58	28.58	101.9	101.4	100.3	6.54	6.51	6.44	3.65	3.71	3.68	5	5.00
	14:17		Middle	3.0	30.50	30.50		8.23	8.23		28.57	28.57		98.7	99.3		6.33	6.37		3.66	3.68		5	
1/8/18	14:25	Fine	Middle	2.5	30.00	30.00	30.00	8.25	8.25	8.26	28.07	28.07	28.07	99.3	99.3	98.3	6.43	6.43	6.37	3.69	3.65	3.67	15	14.00
	14:27		Middle	2.5	30.00	30.00		8.26	8.26		28.07	28.07		96.8	97.7		6.27	6.33		3.67	3.68		13	<u> </u>
3/8/18	16:05 16:07	Fine	Middle	2.5	29.30 29.40	29.30 29.40	29.35	8.27	8.27 8.29	8.28	28.10 28.09	28.10 28.09	28.10	101.4 100.8	101.4 100.3	101.0	6.64 6.60	6.64 6.57	6.61	3.97 3.99	3.95 3.96	3.97	4	4.00
	9:55		Middle	2.5	28.90	28.90		8.23	8.23		28.53	28.53		95.7	95.8		6.29	6.30		3.46	3.30		4 10	<u> </u>
7/8/18	9:57	Fine	Middle	2.5	29.00	29.00	28.95	8.25	8.25	8.24	28.51	28.51	28.52	96.0	95.7	95.8	6.31	6.28	6.30	3.39	3.37	3.40	9	9.50
	10:35		Middle	2.5	28.90	28.90		8.26	8.26		29.23	29.23		96.2	96.3		6.30	6.31		4.17	4.22		5	
9/8/18	10:37	Fine	Middle	2.5	28.90	28.90	28.90	8.26	8.26	8.26	29.23	29.23	29.23	96.3	96.5	96.3	6.30	6.32	6.31	4.20	4.19	4.20	4	4.50
11/8/18	-	Amber Rainstorm	Middle	-	-	-	-	-	-		-	-	-	-	-	-	-	-		-	-	_	-	
	-	Warning Signal	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
13/8/18	14:30	Fine	Middle	3.0	28.80	28.80	28.85	7.98	7.98	7.99	29.49	29.49	29.49	80.3	80.7	80.5	5.26	5.28	5.27	6.03	6.06	6.11	7	6.50
	14:32		Middle	3.0	28.90	28.90		7.99	7.99		29.48	29.48		80.4	80.4		5.27	5.26		6.17	6.16		6	
15/8/18	15:35	Fine	Middle	3.0	28.50	28.50	28.55	8.03	8.03	8.03	29.92	29.92	29.92	77.4	78.3	77.8	5.08	5.14	5.11	7.13	7.12	7.12	9	9.00
	15:37		Middle	3.0	28.60	28.60		8.03	8.03		29.91	29.91		77.6	78.0		5.09	5.12		7.12	7.11		9	<u> </u>
17/8/18	15:10 15:12	Cloudy	Middle	3.0	27.90 28.00	27.90 28.00	27.95	8.03	8.03 8.05	8.04	29.71 29.71	29.71 29.71	29.71	75.8 76.5	76.3 76.6	76.3	5.03 5.08	5.07 5.09	5.07	7.30	7.31 7.36	7.33	9	9.50
	10:12		Middle	2.5	28.70	28.70		8.05	8.05		29.71	28.25		85.1	85.2		5.63	5.63		3.86	3.90		5	<u> </u>
21/8/18	10:17	Fine	Middle	2.5	28.70	28.70	28.70	8.06	8.06	8.06	28.25	28.25	28.25	85.6	85.7	85.4	5.66	5.67	5.65	3.91	3.88	3.89	5	5.00
	10:55		Middle	2.5	27.70	27.70		8.01	8.01		29.76	29.76		78.0	78.6		5.20	5.24		5.61	5.60		5	
23/8/18	10:57	Cloudy	Middle	2.5	27.70	27.70	27.70	8.01	8.01	8.01	29.76	29.76	29.76	79.2	79.2	78.8	5.28	5.28	5.25	5.61	5.62	5.61	4	4.50
25/8/18	11:10	Fine	Middle	3.0	27.90	27.90	27.95	8.01	8.01	8.01	31.09	31.09	31.09	87.0	87.0	86.9	5.73	5.73	5.72	6.44	6.51	6.47	8	7.50
20/0/10	11:12	1110	Middle	3.0	28.00	28.00	21.00	8.01	8.01	0.01	31.09	31.09	01.00	86.9	86.5	00.0	5.71	5.69	0.72	6.45	6.47	0.41	7	1.50

Water Monitoring Result at P4 - SOC Mid-Ebb Tide

Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp °C	erature		pН			Salini ppt	ty	D	O Satur %	ation		DO mg/L			Turbid NTU		Suspend	led Solids
		Condition	n	n	U		Average	Va	- lue	Average	Va	ilue	Average	Va	lue	Average	Va		Average	Va	alue	Average	Value	g/∟ Average
28/7/18	13:20	Fine	Middle	2.5	29.60	29.60	29.55	8.11	8.11	8.11	28.90	28.90	28.90	86.2	86.0	86.0	5.60	5.58	5.58	2.67	2.75	2.73	<2	- <2
20/1/10	13:22	T IIIC	Middle	2.5	29.50	29.50	20.00	8.11	8.11	0.11	28.90	28.90	20.00	86.2	85.7	00.0	5.59	5.56	0.00	2.75	2.76	2.10	<2	
30/7/18	14:20	Fine	Middle	3.0	30.30	30.30	30.30	8.25	8.25	8.25	28.59	28.59	28.57	92.5	93.6	93.8	5.91	6.02	6.02	3.08	3.06	3.08	9	9.50
	14:22		Middle	3.0	30.30	30.30		8.25	8.25		28.54	28.54		94.4	94.8		6.07	6.09		3.09	3.10		10	
1/8/18	14:30	Fine	Middle	2.5	29.80	29.80	29.80	8.27	8.27	8.28	28.11	28.11	28.11	96.1	96.3	96.3	6.25	6.26	6.26	3.83	3.83	3.82	18	17.00
	14:32		Middle	2.5	29.80	29.80		8.28	8.28		28.10	28.10		96.5	96.2		6.27	6.26		3.81	3.82		16	
3/8/18	16:10	Fine	Middle	2.5	29.30	29.30	29.30	8.29	8.29	8.29	28.15	28.15	28.15	97.9	97.8	97.5	6.42	6.41	6.39	4.29	4.20	4.23	3	2.50
	16:12		Middle	2.5	29.30	29.30		8.29	8.29		28.15	28.15		97.1	97.1		6.36	6.36		4.22	4.22		2	
7/8/18	10:00	Fine	Middle	2.5	29.00	29.00	29.00	8.26	8.26	8.27	28.37	28.37	28.37	94.8	94.7	95.0	6.24	6.23	6.25	3.11	3.07	3.08	8	8.50
	10:02		Middle	2.5	29.00	29.00		8.27	8.27		28.37	28.37		95.3	95.2		6.26	6.26		3.07	3.07		9	<u> </u>
9/8/18	10:40	Fine	Middle	2.5	28.80	28.80	28.85	8.29	8.29	8.30	29.12	29.12	29.12	95.2	95.5	95.3	6.25	6.27	6.25	4.07	4.00	4.02	4	4.50
	10:42	Amber	Middle Middle	2.5	28.90	28.90		8.31	8.31		29.11	29.11		95.6	95.0		6.25	6.24		3.99	4.02		5	
11/8/18	-	Rainstorm Warning Signal	Middle	-	-	-	-	-	-	· -	-	-	-	-	-	-	-	-	-	-	-	-	-	
	14:35	Signai	Middle	3.0	28.00	28.00		8.00	8.00		29.62	29.62		75.5	76.2		4.97	5.02		6.16	6.15		7	
13/8/18	14:37	Fine	Middle	3.0	28.50	28.50	28.25	8.00	8.00	8.00	29.62	29.62	29.62	76.7	76.8	76.3	5.05	5.05	5.02	5.99	6.03	6.08	7	7.00
	15:40		Middle	3.0	28.30	28.30		8.03	8.03		29.92	29.92		72.9	72.9		4.80	4.80		8.29	8.26		9	
15/8/18	15:42	Fine	Middle	3.0	28.40	28.40	28.35	8.03	8.03	8.03	29.92	29.92	29.92	74.1	74.1	73.5	4.88	4.80	4.82	8.24	8.36	8.29	9	9.00
17/8/18	15:15	Cloudy	Middle	3.0	27.70	27.70	27.75	8.04	8.04	8.04	29.70	29.70	29.70	74.9	76.1	75.9	4.99	5.07	5.04	7.68	7.66	7.66	9	9.50
17/0/10	15:17	Cloudy	Middle	3.0	27.80	27.80	21.15	8.04	8.04	8.04	29.70	29.70	29.70	76.4	76.3	75.9	5.06	5.04	5.04	7.65	7.66	7.00	10	9.50
21/8/18	10:20	Fine	Middle	2.5	28.60	28.60	28.60	8.07	8.07	8.08	28.18	28.18	28.18	85.0	85.3	85.1	5.63	5.64	5.63	4.27	4.26	4.28	5	4.50
21/0/10	10:22	T IIIG	Middle	2.5	28.60	28.60	20.00	8.08	8.08	0.00	28.18	28.18	20.10	84.9	85.1	00.1	5.62	5.64	0.00	4.29	4.30	7.20	4	1.00
23/8/18	11:00	Cloudy	Middle	2.5	27.70	27.70	27.70	8.02	8.02	8.02	29.67	29.67	29.67	80.4	80.4	80.4	5.37	5.37	5.37	5.28	5.28	5.26	5	5.00
	11:02	,	Middle	2.5	27.70	27.70		8.02	8.02		29.67	29.67		80.4	80.3		5.37	5.36		5.23	5.26		5	
25/8/18	11:15	Fine	Middle	3.0	27.60	27.60	27.65	8.09	8.09	8.10	31.14	31.14	31.15	84.8	85.5	85.6	5.61	5.66	5.66	5.67	5.66	5.66	6	6.00
	11:17		Middle	3.0	27.70	27.70		8.10	8.10		31.15	31.15		86.0	86.0		5.69	5.69		5.66	5.64		6	

Water Monitoring Result at P5 - WCT / RT / IT Mid-Ebb Tide

Date	Time	Weater	Samplin	g Depth	Wat	er Temp °C	perature		pH -			Salinit	у	DO Saturation		DO ma/l			Turbidity NTU			Suspended Solids ma/L		
		Condition	r	n	Va	lue	Average	Va	- lue	Average	Va	ppt Ilue	Average	Va	% Ilue	Average	Va	mg/L lue	Average	Va	lue	Average		g/∟ Average
28/7/18	13:25	Fine	Middle	2.5	29.60	29.60	29.60	8.12	8.12	8.12	28.85	28.85	28.85	86.5	86.9	86.7	5.62	5.64	5.63	2.98	2.97	2.98	2	2.00
	13:27		Middle	2.5	29.60	29.60		8.12	8.12		28.85	28.85		86.6	86.9		5.63	5.64		2.97	2.98		<2	
30/7/18	14:25	Fine	Middle	3.0	30.20	30.20	30.25	8.26	8.26	8.26	28.51	28.51	28.53	97.4	97.3	97.3	6.27	6.26	6.26	2.77	2.81	2.81	7	6.50
	14:27		Middle	3.0	30.30	30.30		8.26	8.26		28.54	28.54		97.0	97.6		6.24	6.28		2.81	2.83		6	
1/8/18	14:35	Fine	Middle	2.5	29.80	29.80	29.80	8.28	8.28	8.29	28.07	28.07	28.07	95.4	95.6	95.3	6.20	6.21	6.19	4.07	4.10	4.09	12	12.50
	14:37		Middle	2.5	29.80	29.80		8.29	8.29		28.07	28.07		94.9	95.1		6.17	6.18		4.09	4.08		13	1
3/8/18	16:15	Fine	Middle	2.5	29.20	29.20	29.20	8.29	8.29	8.30	28.16	28.16	28.16	96.9	96.9	96.8	6.35	6.35	6.34	4.11	4.10	4.10	6	6.50
	16:17		Middle	2.5	29.20	29.20		8.30	8.30		28.16	28.16		96.6	96.6		6.33	6.33		4.09	4.10		7	
7/8/18	10:05	Fine	Middle	2.5	28.80	28.80	28.85	8.28	8.28	8.29	28.41	28.41	28.41	92.5	92.0	92.4	6.10	6.07	6.09	3.07	3.14	3.11	6	7.00
	10:07		Middle	2.5	28.90	28.90		8.29	8.29		28.41	28.41		92.5	92.5		6.10	6.10		3.12	3.11		8	<u> </u>
9/8/18	10:45 10:47	Fine	Middle	2.5	28.80 28.90	28.80 28.90	28.85	8.32 8.33	8.32 8.33	8.33	29.05 29.05	29.05 29.05	29.05	92.9 92.7	92.8 92.4	92.7	6.10 6.09	6.09 6.07	6.09	3.82 3.90	3.89 3.89	3.88	8	8.00
	10.47	Amber	Middle	-	28.90	20.90		0.33	0.33		29.05	- 29.05		92.7	92.4		0.09	0.07		3.90	3.69		0	
11/8/18		Rainstorm Warning	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	14:40	Signal	Middle	3.0	28.40	28.40		8.01	8.01		29.59	29.59		77.4	77.9		5.10	5.16		6.64	6.64		9	
13/8/18	14:42	Fine	Middle	3.0	28.60	28.60	28.50	8.03	8.03	8.02	29.59	29.59	29.59	79.2	79.5	78.5	5.22	5.24	5.18	6.60	6.62	6.63	9	9.00
	15:45		Middle	3.0	28.20	28.20		8.03	8.03		29.92	29.92		76.0	76.2		5.02	5.04		8.47	8.41		10	
15/8/18	15:47	Fine	Middle	3.0	28.20	28.20	28.20	8.03	8.03	8.03	29.92	29.92	29.92	77.7	77.2	76.8	5.11	5.10	5.07	8.44	8.49	8.45	10	10.00
47/0/40	15:20	Claudu	Middle	3.0	27.90	27.90	27.00	8.04	8.04	0.04	29.69	29.69	20.00	73.7	74.0	74.4	4.90	4.92	4.05	7.40	7.40	7.40	7	7.00
17/8/18	15:22	Cloudy	Middle	3.0	27.90	27.90	27.90	8.04	8.04	8.04	29.69	29.69	29.69	74.8	75.0	74.4	4.97	4.99	4.95	7.41	7.40	7.40	7	7.00
21/8/18	10:25	Fine	Middle	2.5	28.60	28.60	28.60	8.08	8.08	8.08	28.17	28.17	28.17	82.5	82.5	83.0	5.47	5.47	5.50	4.78	4.80	4.80	6	6.50
21/0/10	10:27		Middle	2.5	28.60	28.60	20.00	8.08	8.08	0.00	28.17	28.17	20.17	83.3	83.7	05.0	5.52	5.55	5.50	4.80	4.81	4.00	7	0.00
23/8/18	11:05	Cloudy	Middle	2.5	27.50	27.50	27.50	8.04	8.04	8.04	29.94	29.94	29.94	77.8	78.7	78.3	5.20	5.26	5.23	5.49	5.48	5.47	4	4.00
20,0,10	11:07	0.000,	Middle	2.5	27.50	27.50	2	8.04	8.04	0.0.	29.94	29.94	20.01	78.2	78.3		5.23	5.23	0.20	5.45	5.47	5	4	
25/8/18	11:20	Fine	Middle	3.0	27.90	27.90	27.75	8.11	8.11	8.11	31.10	31.10	31.12	84.5	85.5	85.2	5.60	5.66	5.64	5.49	5.39	5.45	7	7.00
	11:22	-	Middle	3.0	27.60	27.60		8.11	8.11	-	31.13	31.13	-	85.2	85.5		5.64	5.66		5.47	5.46		7	

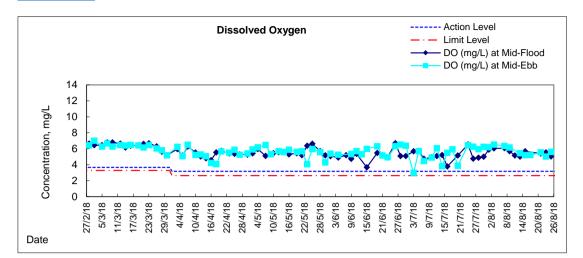
Water Monitoring Result at RW21-P789 - GEC/CRB/SHK Mid-Ebb Tide

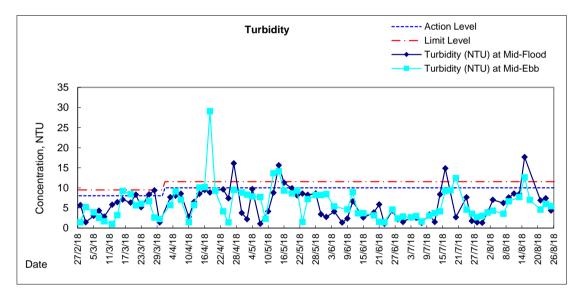
Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp	erature		pH -			Salinit ppt	ty	C	O Satur %	ration		DO ma/L		Turbidity NTU			Suspended Solids ma/L	
		Condition	n	n	Va	lue	Average	Va	lue	Average	Va	alue	Average	Va	alue	Average	Va	lue	Average	Va	alue	Average	Value	g/∟ Average
28/7/18	9:50	Fine	Middle	4.0	29.70	29.70	29.75	7.56	7.56	7.64	30.06	30.06	30.06	81.4	81.4	80.9	5.24	5.23	5.20	3.58	3.58	3.58	3	3.50
20/1/10	9:52	Tine	Middle	4.0	29.80	29.80	23.13	7.71	7.71	7.04	30.05	30.05	30.00	80.3	80.4	00.0	5.15	5.16	3.20	3.58	3.59	5.50	4	3.50
30/7/18	15:00	Fine	Middle	4.0	30.70	30.70	30.75	8.18	8.18	8.19	28.81	28.81	28.81	98.4	98.2	97.9	6.27	6.26	6.24	3.12	3.12	3.10	3	4.00
	15:02		Middle	4.0	30.80	30.80	00110	8.19	8.19	0.10	28.81	28.81	20101	97.6	97.3	0110	6.22	6.20	0.2.1	3.09	3.08	0.110	5	
1/8/18	14:50	Fine	Middle	3.5	29.80	29.80	29.80	8.21	8.21	8.22	28.69	28.69	28.70	96.7	96.3	95.7	6.26	6.24	6.19	6.75	6.74	6.69	14	13.50
	14:52	-	Middle	3.5	29.80	29.80		8.22	8.22		28.70	28.70		94.9	94.7		6.14	6.13		6.65	6.63		13	
3/8/18	13:40	Fine	Middle	4.0	29.80	29.80	29.90	801	801	8.05	29.38	29.38	29.38	91.6	89.7	293.7	5.99	5.77	5.85	4.24	4.25	4.24	3	3.50
	13:42		Middle	4.0	30.00	30.00		8.05	8.05		29.38	29.38		90.3	903.0		5.81	5.81		4.22	4.25		4	
7/8/18	7:50	Fine	Middle	4.0	29.10	29.10	29.15	7.87	7.87	7.90	29.09	29.09	29.07	85.3	83.7	84.9	5.57	5.46	5.54	3.13	3.16	3.16	5	5.50
	7:52		Middle	4.0	29.20	29.20		7.92	7.92		29.04	29.04		85.3	85.1		5.56	5.55		3.18	3.18		6	
9/8/18	9:45	Fine	Middle	3.5	29.00	29.00	29.10	7.97	7.97	7.99	30.13	30.13	30.13	89.7	89.8	89.4	5.83	5.83	5.80	3.33	3.32	3.32	4	4.50
	9:47		Middle	3.5	29.20	29.20		8.01	8.01		30.13	30.13		88.7	89.2		5.75	5.78		3.31	3.31		5	
11/8/18	-	Amber Rainstorm	Middle	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-		-	
	-	Warning Signal	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
13/8/18	15:10	Fine	Middle	4.0	28.70	28.70	28.75	8.00	8.00	8.01	29.76	29.76	29.76	69.7	69.7	68.0	4.56	4.56	4.44	6.97	6.97	6.77	10	10.00
	15:12		Middle	4.0	28.80	28.80		8.02	8.02		29.76	29.76		66.2	66.2		4.32	4.32		6.56	6.56		10	
15/8/18	16:05	Fine	Middle	3.5	28.80	28.80	28.80	8.01	8.01	8.02	29.60	29.60	29.60	83.0	82.9	82.7	5.44	5.43	5.42	7.28	7.25	7.22	7	7.50
	16:07		Middle	3.5	28.80	28.80		8.02	8.02		29.60	29.60		82.4	82.4		5.39	5.40		7.20	7.16		8	
17/8/18	16:00	Cloudy	Middle	4.0	28.20	28.20	28.30	8.02	8.02	8.00	29.18	29.18	29.26	80.6	80.8	79.8	5.35	5.36	5.28	6.32	6.28	6.64	9	8.50
	16:02		Middle	4.0	28.40	28.40		7.98	7.98		29.34	29.34		78.7	79.0		5.20	5.22		6.98	6.96		8	<u> </u>
21/8/18	8:00	Fine	Middle	4.0	28.40	28.40	28.40	7.93	7.93	7.95	28.28	28.28	28.28	78.6	77.6	77.7	5.22	5.16	5.17	4.51	4.50	4.49	4	4.00
	8:02		Middle	4.0	28.40	28.40		7.96	7.96		28.28	28.28		77.6	77.1		5.16	5.12		4.47	4.46		4	<u> </u>
23/8/18	11:45	Cloudy	Middle	3.5	27.80	27.80	27.85	8.02	8.02	8.02	29.31	29.31	29.31	79.9	79.9	79.6	5.33	5.33	5.31	4.88	4.90	4.90	5	5.00
	11:47		Middle	3.5	27.90	27.90		8.02	8.02		29.31	29.31		79.3	79.2		5.29	5.28		4.91	4.92		5	<u> </u>
25/8/18	11:45	Fine	Middle	4.0	27.50	27.50	27.55	8.07	8.08	8.08	31.50	31.50	31.50	82.2	82.1	81.4	5.44	5.41	5.38	6.07	6.04	6.06	6	6.50
	11:47		Middle	4.0	27.60	27.60		8.08	8.08		31.50	31.50		80.7	80.5		5.34	5.33		6.04	6.07		7	

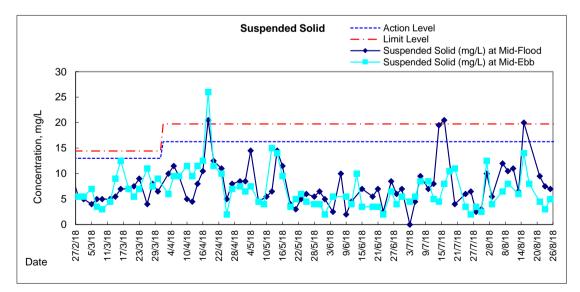
Water Monitoring Result at WSD19 - Sheung Wan Mid-Ebb Tide

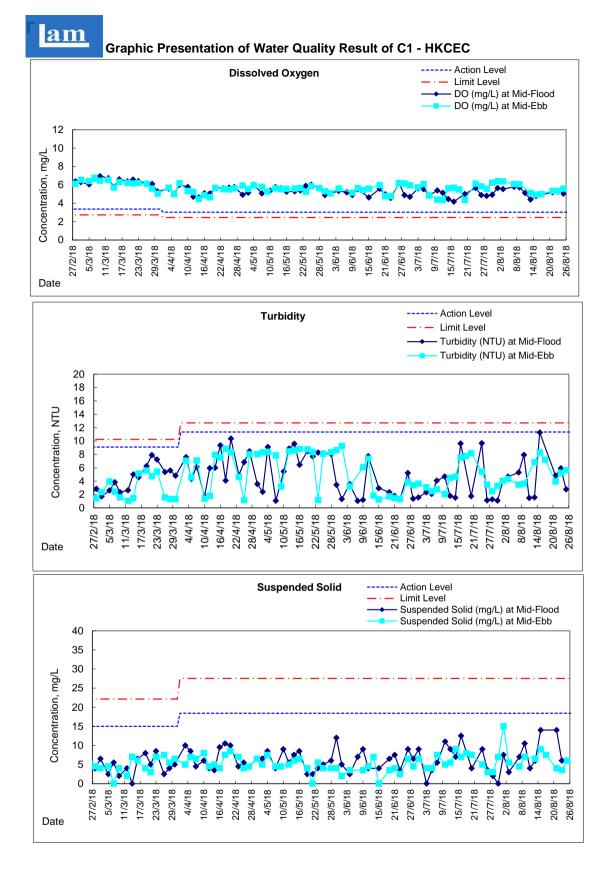
Date	Time	Weater Condition	Samplin	ig Depth	Wat	er Temp	erature		pН		-	Salinit	y	0	DO Satur	ation	-	DO ma/l		Turbidity NTU			Suspended Solids ma/L	
		Condition	n	n	Va	lue	Average	Va	- lue	Average	Va	ppt lue	Average	Va	alue %	Average	Va	mg/L lue	Average	Va	llue	Average	Value	g/L Average
28/7/18	11:05	Fine	Middle	4.0	29.90	29.90	29.95	7.95	7.95	7.97	28.46	28.46	28.46	92.6	93.0	91.9	5.99	6.01	5.94	2.70	2.70	2.72	3	3.50
20/1/10	11:07	Tille	Middle	4.0	30.00	30.00	23.33	7.99	7.99	1.51	28.46	28.46	20.40	91.6	90.2	51.5	5.92	5.84	0.04	2.70	2.76	2.12	4	5.50
30/7/18	11:00	Fine	Middle	4.0	30.20	30.20	30.25	7.88	7.88	7.93	28.68	28.68	28.68	97.3	98.3	97.0	6.26	6.32	6.24	3.03	3.04	3.03	3	2.50
30///10	11:02	Tine	Middle	4.0	30.30	30.30	50.25	7.97	7.97	1.55	28.67	28.67	20.00	95.9	96.6	57.0	6.16	6.20	0.24	3.00	3.04	3.00	2	2.00
1/8/18	13:20	Fine	Middle	4.0	30.40	30.40	30.45	8.18	8.18	8.19	28.01	28.01	28.01	96.2	96.0	96.1	6.19	6.18	6.18	3.88	3.84	3.85	12	12.50
	13:22		Middle	4.0	30.50	30.50		8.19	8.19		28.00	28.00		96.0	96.1	••••	6.18	6.18		3.83	3.83		13	
3/8/18	14:15	Fine	Middle	4.0	30.00	30.00	30.10	8.10	8.10	8.13	28.35	28.35	28.35	100.9	100.8	101.0	6.52	6.51	6.52	4.32	4.31	4.30	3	4.00
	14:17		Middle	4.0	30.20	30.20		8.15	8.15		28.35	28.35		101.0	101.1		6.52	6.52		4.28	4.29		5	
7/8/18	8:50	Fine	Middle	3.5	29.60	29.60	29.65	8.11	8.11	8.12	28.12	28.12	28.13	99.0	98.6	98.4	6.45	6.42	6.34	3.57	3.58	3.55	7	6.50
	8:52		Middle	3.5	29.70	29.70		8.12	8.12		28.13	28.13		98.0	97.8		6.38	6.10		3.58	3.45		6	
9/8/18	11:50	Fine	Middle	3.5	29.00	29.00	29.15	8.15	8.15	8.19	28.75	28.75	28.75	94.3	94.0	93.9	6.17	6.14	6.15	6.65	6.72	6.63	8	8.00
	11:52		Middle	3.5	29.30	29.30		8.22	8.22		28.74	28.74		93.9	93.4		6.14	6.13		6.58	6.58		8	
11/8/18	-	Amber Rainstorm	Middle	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-		-	
	-	Warning Signal	Middle	-	-	-		-	-		-	-		-	-		-	-		-	-		-	
13/8/18	12:40	Fine	Middle	4.0	29.40	29.40	29.45	7.65	7.65	7.69	29.85	29.85	29.86	84.4	84.6	84.2	5.46	5.47	5.44	7.72	7.71	7.70	6	6.00
	12:42	-	Middle	4.0	29.50	29.50		7.73	7.73		29.86	29.86		84.0	83.7	_	5.43	5.41	-	7.70	7.68	-	6	
15/8/18	14:30	Fine	Middle	4.0	28.90	28.90	29.00	8.05	8.05	8.05	29.92	29.92	29.92	78.7	78.8	79.6	5.13	5.13	5.19	12.65	12.60	12.60	14	14.00
	14:32		Middle	4.0	29.10	29.10		8.05	8.05		29.92	29.92		80.6	80.1		5.26	5.22		12.56	12.57		14	
17/8/18	17:15	Cloudy	Middle	3.5	28.30	28.30	28.35	7.97	7.97	7.98	29.34	29.34	29.34	78.5	78.6	78.7	5.19	5.20	5.20	6.96	6.97	6.97	8	8.00
	17:17		Middle	3.5	28.40	28.40		7.98	7.98		29.34	29.34		78.7	79.0		5.20	5.22		6.98	6.96		8	
21/8/18	9:10	Fine	Middle	3.5	28.50	28.50	28.55	8.01	8.01	8.02	28.45	28.45	28.45	83.9	94.3	86.3	5.55	5.58	5.55	4.57	4.64	4.59	4	4.50
	9:12		Middle	3.5	28.60	28.60		8.03	8.03		28.45	28.45		83.5	83.6		5.52	5.53		4.56	4.60		5	
23/8/18	9:55	Cloudy	Middle	3.5	28.40	28.40	28.42	7.86	7.86	7.88	29.72	29.72	29.72	76.4	76.5	76.2	5.03	5.03	5.02	6.00	6.00	6.00	3	3.00
	9:57	,	Middle	3.5	28.40	28.47	=	7.90	7.90		29.72	29.72		76.0	76.0		5.00	5.01		5.99	5.99		3	
25/8/18	10:30	Fine	Middle	4.0	29.40	29.40	29.55	7.81	7.81	7.86	31.23	31.23	31.23	87.9	87.9	87.6	5.64	5.64	5.62	5.39	5.43	5.41	5	5.00
	10:32		Middle	4.0	29.70	29.70		7.90	7.90		31.22	31.22		87.4	87.2		5.60	5.59		5.40	5.42	-	5	

Graphic Presentation of Water Quality Result of WSD19 - Sheung Wan



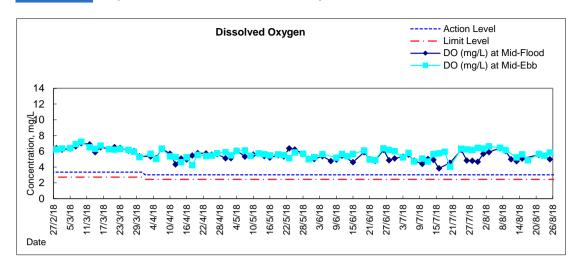


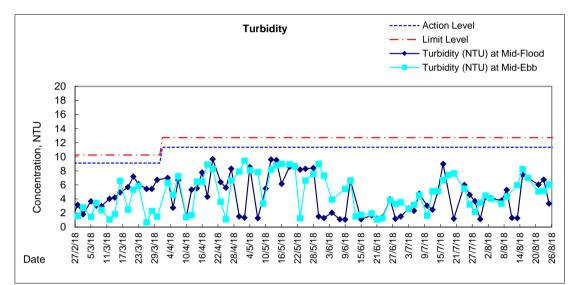


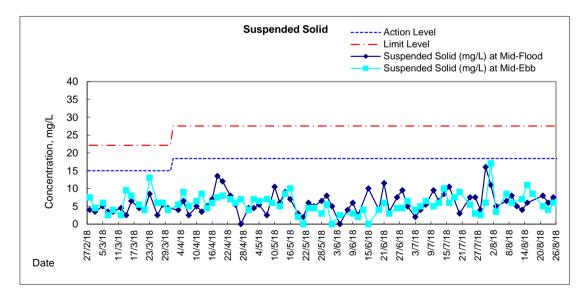




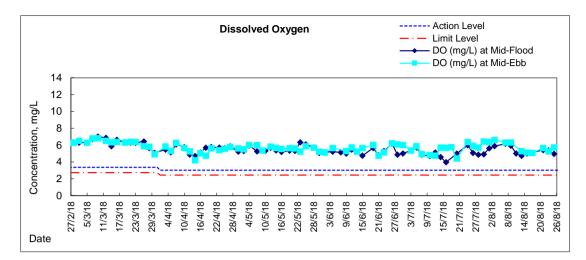
Graphic Presentation of Water Quality Result of P1 - HKCEC Phase I

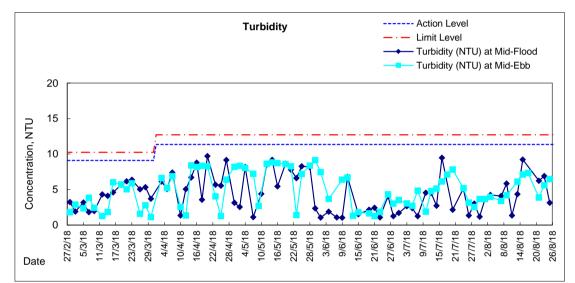


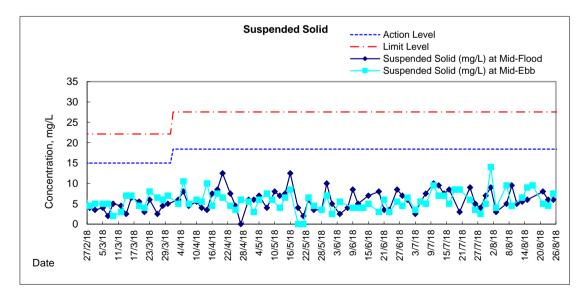




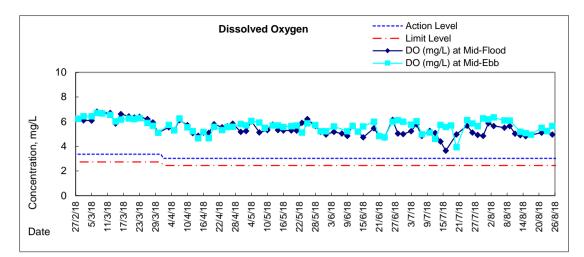
Graphic Presentation of Water Quality Result of P3 - APA

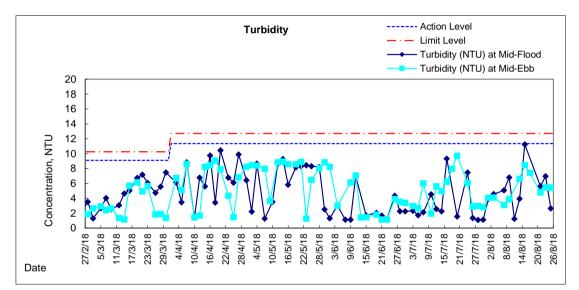


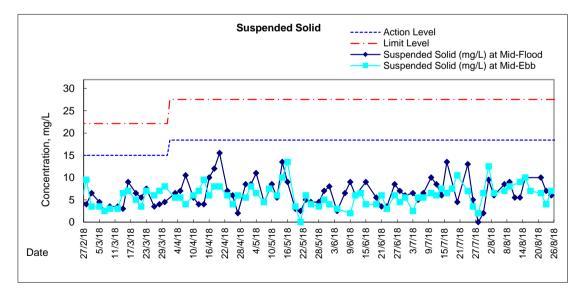




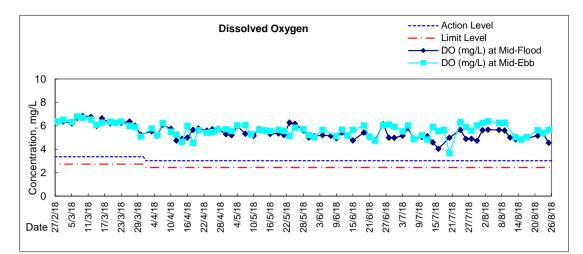
Graphic Presentation of Water Quality Result of P5 - WCT / RT / IT

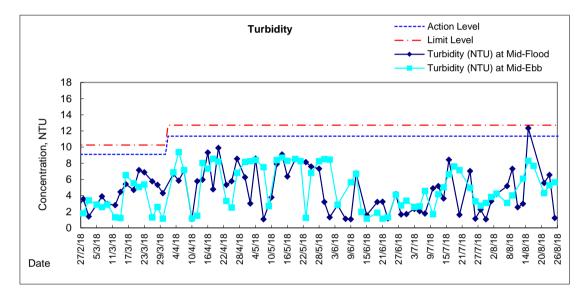


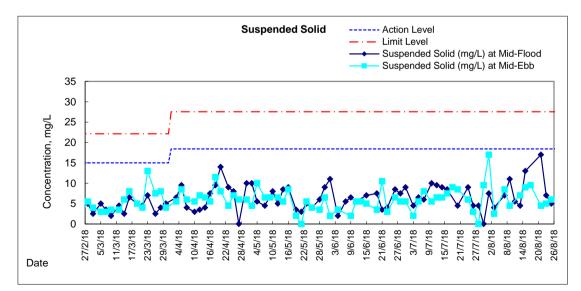




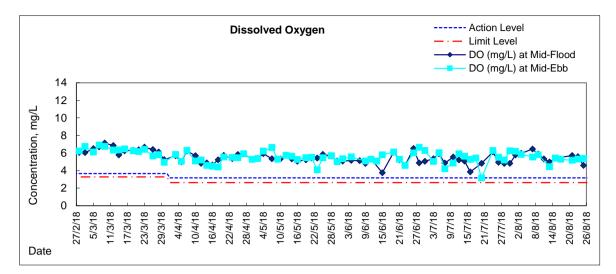
Graphic Presentation of Water Quality Result of P4 - SOC

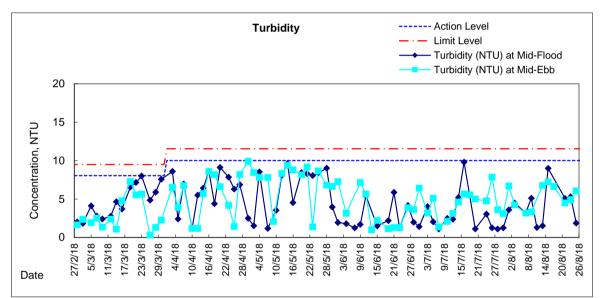


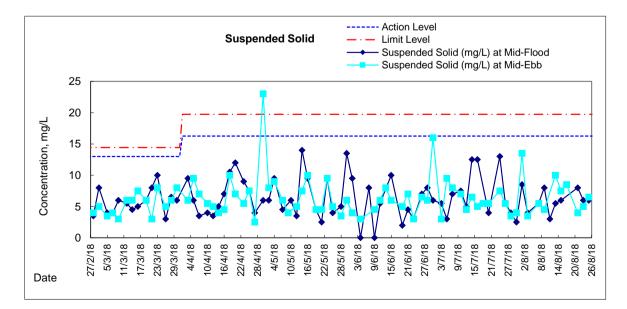




Graphic Presentation of Water Quality Result of RW21-P789 - GEC/CRC/SHK

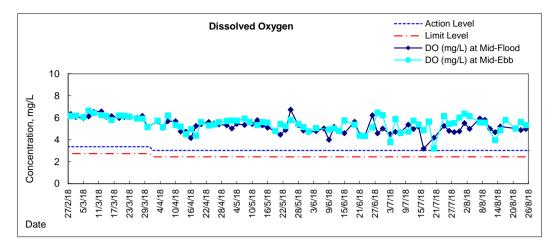


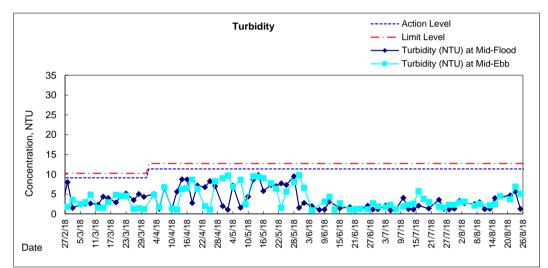


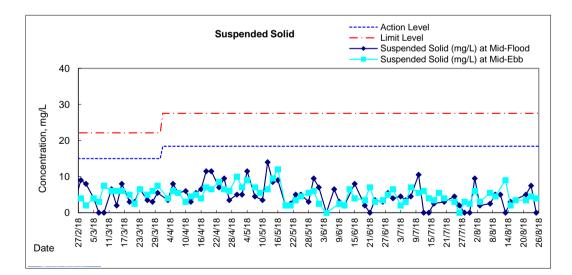


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Graphic Presentation of Water Quality Result of C7 - Windsor House











Appendix 6.1

Event Action Plans



Event/Action Plan for Construction Noise

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



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



Event / Action Plan for Construction Air Quality

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



Event and Action Plan for Marine Water Quality

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



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



Event and Action Plan for Odour Patrol

Event		ACTION
	Person-in-charge of Odour Monitoring	Implementation Agent Identified by CEDD
Action Level		
Exceedance of Action Level	 Identify source/reason of exceedance; Repeat odour patrol to confirm finding. 	 Carry out investigation to identify the source/reason of exceedance; Rectify any unacceptable practice Implement more mitigation measures if necessary; Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris.
Limit Level		
Exceedance of Limit Level	 Identify source / reason of exceedance; Repeat odour patrol to confirm findings; Increase odour patrol frequency; If exceedance stops, cease additional odour patrol. 	 Carry out investigation to identify the source/reason of exceedance. Investigation shall be completed within 2 weeks; Rectify any unacceptable practice; Formulate remedial actions; Ensure remedial actions properly implemented; If exceedance continues, consider what more/enhanced mitigation measures shall be implemented; Inform EPD or MD if exceedance is considered to be caused by expedient connections or floating debris.



Appendix 6.2

Summary for Notification of Exceedance



Contract No. HK/2015/01 d Central Wanchai Bypass (Stage3) eedance

Wanchai Development Phase II and Central Wanchai
Sampling, Field Measurement and Testing Work (S
Summary for Notification of Exce

Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_18W027	15-Aug-18	Mid-flood	WSD19	DO(mg/L)	5.69	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity(NTU)	17.65	10.01	11.54	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checked with Contractor works and reviewed previous monitoring data.
				SS(mg/L)	20.00	16.26	19.74	Remarks/ Other Obs:	No marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. In view of above, it is considered the exceedance was not related to Project work.
X_18W028	15-Aug-18	Mid-ebb	WSD19	DO(mg/L)	5.19	3.17	2.63	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity(NTU)	12.60	10.01	11.54	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedances. Checked with Contractor works and reviewed previous monitoring data.
				SS(mg/L)	14.00	16.26	19.74	Remarks/ Other Obs:	No marine construction activity under Contract HK/2012/08 was conducted on the monitoring date. In view of above, it is considered the exceedance was not related to Project work.



Contract No. HK/2015/01 Wanchai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Work (Stage3) Summary for Notification of Exceedance

Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	
X_18C003	15-Aug-18	Mid-flood	P4	DO(mg/l)	4.85	3.02	2.44	Possible reason:	Natural variation or changes of water quality in the vicinity of water quality monitoring station.
				Turbidity	12.33	11.35	12.71		Immediate repeated in-situ measurement to confirm the exceedances. Checked with Contractor works and reviewed previous monitoring data.
				SS	13.00	18.42	27.54		No marine construction activity was conducted under Contract HK/2012/08 on the monitoring date, while the location of the construction area was at downstream of monitoring station P4 during monitoring period. In view of the above, it is considered that the exceedanace was not related to Project works. No exceedance was recorded in the subsequent monitoring on 15 August 2018 during ebb tide.



Appendix 9.1

Complaint 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).		A valid Construction Noise Permit no. GW-RS0119-10 was granted from EPD since 18 th Feb. 2010 for the dredging works which carry out at area for North Point Reclamation.	Closed
					2)	Officer from Marine Department, Police and EPD's officer attended the scene for inspection and investigation.	
					3)	The Contractor (CHEC-CRBC JV) strictly comply all the conditions in CNP and take all mitigation measures in order to minimize the potential impacts to surrounding sensitive receivers. A formal letter was issued out by CHEC-CRBC JV and to explain the status of the recent construction activities.	
					4)	No limit level exceedance was recorded on the noise measurement during day time and evening time noise measurement on 23 March 2010. Additional restrict hours noise monitoring at Causeway Bay Community and City Garden was conducted on 5 April 2010 (Public Holiday). No limit level exceedance was recorded in the monitoring.	
					5)	No further complaints were received from Mr. Tsang in the reporting month. The complaint is considered closed.	
100321b	21/3/2010	Unknown	breakwater of the	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 th Feb. 2010 for the dredging works at area for North Point Reclamation during general holidays including Sunday between 0700-2300 hours and any day not being a general holiday between 1900-2300hours. It is complied with the condition of CNP.	Closed
				2010(Monday).	2)	Officer from Marine Department, Police and EPD's officer attended the scene for inspection and investigation.	
					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	1005044/5/2010Public complainant received by ICC (ICC case: 1- 233384048)Watson RoadComplaint 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.	due to the large scale of dredging machine (face to Island East Corridor) in particular the	,	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0119-10 for their dredging works. Contractor has implemented mitigation measures to reduce the working hour not later than 2230. According to RSS 's record, no more daytime and night	Closed			
		2)	time dredging since the departure of the split hopper barge from the workplace on 29 April 2010 at 1900 hrs to 5 May 2010.					
					3)	No further complaints were received in the reporting month. The complaint is considered closed.		
100731	31/7/2010	Mr. Lee received by ICC (CC Case:		due to the dredging works.	1)	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works.	Closed	
		1-250702681)	1-250702681)		Three construction plants were operated concurrently.	2)	There was only 1 grab dredger operated by Contractor within NPR project site area for dredging works.	
					3)	No noise exceedance was recorded at noise monitoring station at Victoria Centre on 27 July and 3 August 2010 during daytime and evening time period.		
					4)	It is considered as invalid from the EP and CNP point of view.		
100812	12/8/2010	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	1)	Contractor for HY/2009/11 was granted valid Construction Noise Permit no. GW-RS0371-10 for their dredging works. Contractor has implemented mitigation measures to reduce the working hour not later than 2230.	Closed	
				works area adjacent to the Harbour Height during the period from 0700 to 2200.	2)	No noise exceedance was recorded at noise monitoring station at Victoria Centre on 10 and 17 August 2010 during daytime and evening time period.		
					3)	It is considered as invalid complaint. No further complaints were received in the reporting month. The complaint is considered closed.		



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Ou	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) 2) 3)	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. 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. 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	Closed
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		WSD15 for the protection of WSD salt water intake. 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		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:It was referred to the filling operation at North Point	Closed



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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Out	tcome	Status
110419	19/04/2011	Victoria Centre at Victoria Centre by	19 and 19 19 an and 19 an an an an an an an an an an an an an	The episode of night noise on 19/4/11 and 20/4/11 at 2:50 am and the noise lasted for 30 minutes per night.	"	According to the RSS's record, there was no construction works undertaken under the EP-356/2009 during the concern time period.	Closed
		272874759)			2)	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.	
					3)	It is considered as invalid complaint under this Project.	
110617	9/06/2011	Mr. Law from 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
		Office		related to CWB under Contract no. HY/2009/11	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.	



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



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						so as to prevent recurrent by barge defect	
110723a	23/07/2011	/2011 Ms. Law at Victoria Centre by ICC no. 1- 303887687	Victoria Centre by CC no. 1- 103887687 Department pu in their Mai about construct conducted from 2300 hours	She concerned that Highways Department published a notice in their Management Office about construction works will be conducted from 0700 hours to 2300 hours during July to December 2011 including	1) 2)	It was referred by AECOM to ET on 28 July 2011 RSS confirmed that the notice was prepared by Victoria Centre's Management office to their resident and the advice was only given on the extension construction works (for Contract HY/2009/15) to 7am-9pm from Monday to Saturday except Public Holidays and Sundays.	
			Saturday, Sunday and public holiday.	3)	As a mitigation measure to minimize the noise nuisance in the vicinity of the residents, rock breaking activities will be started at 8am and is expected to be completed by mid- August 2011.	Closed	
				4)	No noise exceedance was recorded at construction noise monitoring station at Victoria Centre on 19 and 25 July 2011 during daytime while breaking and excavation works were undertaken during monitoring.		
		5			In conclusion, it was related to the construction works under Contract HY/2009/15 and mitigation measure was provided. The complainant was satisfied with the arrangement and no further complaint was received after proposed measures.		
110723b	23/07/2011	Ms. Yau at Block	North Point	Reclamation work was conducted at Causeway Bay	1)	It was referred by AECOM to ET on 8 August 2011	
		2, Victoria Centre by ICC no. 1- 304013959		Typhoon Shelter at 7am on 23 July 2011. She complained that the works shall be started later to minimize the noise nuisance	2)	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	
					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	North Point	It was complained by Mr. Law from Victoria Centre Management Office on 27 July	·)	It was referred by AECOM to ET on 28 July 2011 RSS confirmed to start the rock breaking activities for	Classed
	Offic	Management Office by ICC no. I-304616162	p. 201 noi:	2011 regarding construction noise generated by the		Contract HY/2009/15 at 8am as a mitigation measure to minimize the noise nuisance in the vicinity of the residents.	Closed
				construction operations of	3)	No noise exceedance was recorded at construction noise	L



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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. As a mitigation measure to minimize the noise nuisance in	
		_				the vicinity of the residents, rock breaking activities will be started at 8am.	
	08/08/2011		4)	However, complainant did not satisfy with the response on the noise nuisance from the rock-breaking during morning in front of Victoria Centre and then further complaint via 1823 on 7 August 2011.	Closed		
					5)	Highways contacted the complainant on 15 August 2011 that the noisy rock breaking operation had been completed.	
					Re	marks: There will be counted as two complaints in this complaint log.	
110810	10/08/2011	Mr. Yip by ICC no. 1 – 306740207	North Point	Muddy water was discharged from work site to the seafront near Oil Street during heavy rain. The environmental protection measures were not good enough and are needed to rectify.	1 17	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. Due to the missing of mitigation measures to protect the	Closed
					4)	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) 3)	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. The drilling rig at HKCEC1 reclamation area and excavator mounted breaker at Convention Avenue were then	
					4)	temporary suspended after received the complaint. Investigation revealed that the erected noise barrier (4m cantilevered movable noise barrier for the drilling rig and 1m movable noise barrier for the excavator mounted breaker) were not located close to the plants to provide adequate noise screening.	Closed
					5)	Contractor was advised to avoid concurrent operation of construction plants at site. Further enhancement of movable noise barriers at HKCEC1 and providing noise enclosure for the excavator mounted breaker at Convention Avenue are needed.	
					6)	Further site investigation and checking on 31 August and 7 September 2011 revealed that the implemented noise mitigation measures were in proper and minimize the noise impact.	
110826A	26/08/2011	A complaint letter from Mr. Au of Cayley Property of City Garden	North Point	Harbor front adjacent to their cooling water intake suction which caused 3 times of system breakdown of the sea water pump on 9, 22 and 25 August 2011.	1)	It was referred by AECOM to ET on 29 August 2011. Confirmed with the Resident Site Staff that the • construction works were referred to the Contractors HY/2009/11 and HY/2009/19. • The pump is located on the site area of HY/2009/19 • A temporary garbage defender was installed on 23 July 2011 by HY/2009/11 and the shape of the defender was adjusted on 8 August 2011 in order to excluse the outfall.	Closed
						 An ad hoc inspection of the effectiveness of garbage defender was conducted with RSS (CWB project 	



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					team), contractor of HY/200911 and HY/2009/19 a IECon 29 August 2011. Inspection report of it was submitted to RSS on 19 September 2011.	nd
					 Daily cleaning near the water intake was conducte twice a day by contractor HY/2009/19. 	d
					 In response to City Garden request, the contracto have set up the temporary garbage defender in function and collect the floating refuses, but canno eliminate all refuses, in particular the refuse comin from the seabed 	t
					 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 conclu could be made for the source of these floating refuses the other hand, some of the refuses were observed floating behind the garbage defender during investiga	On
					 All daily cleaning actions had been taken by contractor minimize floating refuse inside the construction site. 	to
					5) It was noted that the cooling water intake was access to the public. As such, fish breeding and fishing activit were observed even though a notice has already hois Also, tripping of rubbish by the passers-by could resul a lot of rubbish accumulated around the intake point.	es ed.
					 Referring to the record provided by CPML, there were lot of nylon/ plastic bags and nylon wire mesh that matched those rubbishes generated from the public activities. 	a
					7) Contractors have fulfilled the requirement of site cleanness and no exceedance was recorded during Water Quality Monitoring. It is consider the cause of th complaint is not related to project and environmental issue in this project as well. No more complaint receiv 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)	 RSS notified ET to carry out investigation on 17 Octob 2011. ET confirmed with the Resident Site Staff that the loca 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 us 	tion



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



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					 CNP was checked by the police officer. ET confirmed with the Resident Site Staff that was also raised out by RSS at about 7:00 same day. Besides, it was confirmed that the Construction Noise Permit for the conducted works in the period between 2300 and 0700. 	Da.m on the re is no valid
					3) Due to insufficient communication between Co HK/2009/01 and their Korean Sub-contractor, Sub-contractor had not notified to Contractor h carrying out the inspection of the BC cutter, he bentonite pipes at about 6:00a.m to ensure no and all the pipe joints should be tightened and position.	Korean before bists and b damages
					4) Contractor was advised to enhance the comm between Contractor and sub-contractor and p sufficient environmental training to all foremar operators on restricted hour operation. Futher Construction Noise Permit should be checked place for the construction works during restriction	rovide a and more, and in
					5) This complaint was considered in relation to th conducted construction works during restricted without valid Construction Noise Permit. No m construction works were conducted during nig period. The construction works will be conduc accordance with the time period stated in valid complaint will be kept in view of any follow-up the relevant government activities.	d hours lore ht time ted in d CNP. This
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.	 RSS notified ET on 5 April 2012. ET confirmed with the Resident Site Staff t works were performed during the concerned p 	period. ng (M2b and aytime period inspection for 2012. The d CBTS was pilings were major works rruction and April 2012 via t CBTS were and 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.	 RSS notified ET on 8 March 2013 ET confirmed with RSS that excavation works, installation of buoy, flashing light and silt curtain and dredging works were undertaken at Eastern Breakwater during the concerned period on 6 March 2013. One backhoe equipped with breaker and one derrick barge were confirmed in operation while another backhoe was at idle during the concerned period on 6 March 2013. Reviewing the photo record provided by RSS, the condition of the silt curtain deployed around the Eastern Breakwater on 6 March 2013 was found to be in good condition. It is considered that the silt curtain was properly in place during the concerned period and the concerned act of dropping of fine rock material was confined within the silt curtain boundary without adverse impact to the nearby water quality. Further follow up was conducted on 12 March 2013 during weekly environmental audit inspection, the silt curtain deployed around the concerned area was found to be maintained in good condition and the water quality at the concerned work area was generally satisfactory. No violation of the Environmental Permit condition was found. The contracotr was advised and committed to implement preventive meaures to miminize the potential impact of work including conducting regular diver check to ensure the integrity and the extend of silt curtain deployment and to provide adequtae back up stock of silt curtain for emergency use. 	Closed
140612	12/06/2014	EPD ref: EP/860/F2/24 Annex IV	Wan Chai	The complaint is regarding to the water quality of the waterfront outside the Hong Kong Academy for Performing Arts Theatre Block, where a large piece of muddy water was found.	letter from EPD (ref: EP/860/F2/24 Annex IV) was received by ET on 13 June 2014.	Closed



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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.	2)	case was submitted to EPA via email on 18 June 2014. Construction noise impact referred by RSS was received by ET on 25 July 2014 ET confirmed with RSS that horizontal cutting and removal of D-wall at Eastern, Southern and Northern side of TS2 was undertaken by Contractor of HY/2009/15 within Causeway Bay Typhoon Shelter before 23:00hrs on 20 July 2014 that total 3 numbers of derrick lighter and 3 numbers of saw cut machine were in operation, and removal of D-wall at Panel S30A-1 of TS2 was undertaken by Contractor of HY/2009/15 within Causeway Bay Typhoon Shelter around 00:25hrs to 00:56hrs on 21 July 2014 that total 1 number of derrick lighter was in operation. According to the relevant site records under Contract	Final report (Issue1) issued on 31 July 2014. Further to complainant follow-up, Final report (Issue2) Issued on 12 Aug 2014.
					4)	HY/2009/15, before 23:00hrs on 20 July 2014, horizontal cutting and removal of Diaphragm Wall at Eastern, Southern and Northern side of TS2 was conducted under HY/2009/15 within Causeway Bay Typhoon Shelter. Total 3 nos. of derrick lighter and 3 nos. of saw cut machine were in operation at the above period. From around 00:25hrs to 00:56hrs on 21 July 2014, removal of D-wall at Panel S30A-1 of TS2 was undertaken by Contractor of HY/2009/15 within Causeway Bay Typhoon Shelter. Total 1 no. of derrick lighter was found operating at the above period It was considered the condition of CNP GW-RS0592-14 was not fulfilled by the Contractor of HY/2009/15. "From	
						00:25hrs to 00:57hrs on 21 July 2014, the PME(s) (1 no. of Derrick Lighter) on-site could not follow with any given PME grouping requirement(s) as stated in condition 3.a. and condition 3.d. in no. GW-RS0592-14."	



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					 Notwithstanding the above, according to the site recorded provided by the RSS, the derrick lighter was found malfunction at around 23:00hrs on 20 July 2014 while the diaphragm wall cutting procedure was incomplete. Under safety and navigation consideration, the completion of diaphragm wall removal was necessary and of imminent need. 5) The Contractor of HY/2009/15 was advised to review the construction sequence and emergency response procedure for construction activities during restricted hours and night time period to allow for sufficient buffer time for work completion such that the Construction Noise Permit would be followed. Furthermore, the Contractor of HY/2009/15 was suggested to conduct throughout checking of PME used on site prior to work commencement to minimize the potential malfunctioning of 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. 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.	Updated interim investigatio n with supplement ary information submitted to EPD on 17 November 2014 EPD



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					From 23:00 hrs to 06:00hrs, panel replacement works was conducted under Contractor of HK/2009/02 at the Temporary Covered Walkway.	advised no further comment
					Total one scissor platform and two hand held drills (battery) were in operation.	on the updated interim
					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.	report and case closed on 27 Nov 2014.
					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.	



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



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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.	 November 2014. 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 onsite 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.



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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, EPD advised no comment on 27 February 2016 on the interim report submitted and case closed.



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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 and EPD



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		2015	Ground	other construction plants under operation from the reclamation construction site	 moored near shore and other construction plants under operation from the reclamation construction site with Contract no. HK/2009/02 at location outside Wan Chai Sports Ground caused air pollution. The complainant alleged that the said situation had been observed for a prolonged period. ET confirmed with the Resident Site Staff that reinforced bar fixing and concreting work (on 17 June 2015 only) were conducted at Portion 2 from 15 June 2015 to 19 June 2015. Total 3 nos. of mobile crane were in operation. On 17 June 2015, one no. of concrete pump truck and two nos. of concrete mixer were in operation. Excavation and Lateral Support was conducted at Portions 3 & 4 from 15 June 2015 to 19 June 2015. Total 4 nos. of excavator, 2 nos. of truck and 2 nos. of crawler crane were in operation. In addition, on 15 June 2015, 17 June 2015 and 19 June 2015, 1 no. of derrick barge was moored near Portions 3 & 4 for transportation of the excavated material away from site. According to the relevant site records under Contract HK/2009/02, from 15 June 2015 to 19 June 2015, no no of concrete pump truck (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) 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 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	advised no comment on 20 July 2016 on the interim report submitted and case closed.
					2015,17 June 2015 and 19 June 2015 respectively.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					environmental inspection on 25 June 2015, no dark smoke and malodour emission was observed from the PMEs operating on-site. A derrick barge was observed moored near Portions 3 & 4 and excavated material was transferred to the derrick barge by the excavators on land without barge operation and no particular dark smoke and malodour emission was observed. Nevertheless, the Contractor was reminded to conduct regular checking on the condition of the derrick barge and other PMEs deployed on site to ensure only well maintained PMEs are used to avoid potential dark smoke and maldour emission affecting nearby public.	
150723	20 July 2015	EPD Ref.:H05/RS/ 00018040-15 dated 23 July 2015	Ex-Wanchai Ferry Pier near 720 & & 722 Bus stop	Malodour from marine sediment	A public complaint regarding malodour referred by EPD was received by ET on 23 July 2015 (EPD Ref.: H05/RS/00018040-15 dated 23 July 2015). The complainant reported that malodour from marine sediment was scented at ex-Wanchai ferry pier near route 720 & 722 bus stop. (Contract HK/2009/02). ET confirmed with the Resident Site Staff that Rockfill placing works was conducted by one derrick barge at the concerned location (WCR3) under Contract HK/2009/02 on 20 July 2015. No marine sediment was stored or placed on site at the concerned location under Contract HK/2009/02 on 20 July 2015. According to the relevant site records under Contract HK/2009/02, rockfill placing works was conducted by one derrick barge at WCR3 area on 20 July 2015 and no marine sediment was stored or placed on site at the concerned location on the concerned date. Follow-up inspection was conducted during weekly environmental inspection on 29 July 2015. No marine sediment was observed stored or placed at the concerned location while it was noted that a culvert outfall with potential odour concern is located adjacent to the concerned location.	Interim report submitted to EPD on 30 July 2015. EPD advised no comment on 17 August 2015 on the interim report submitted and case closed.



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



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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. 2 nd interim report submitted to EPD on 17 Dec 2015 3 rd interim report submitted to EPD on 31 Dec 2015



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					 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.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					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. EPD advised no comment on 14 October 2015 and case closed.
					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	



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					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 and EPD advised no comment on 16 November 2016 and case closed.
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 and record of diving inspection conducted on 27 November 2016 was forwarded to EPD on 4 Dec 2016. EPD advised no further comment on 14 Dec 2015 and case closed.



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 channel was found generally in order.	
160413 (HK20120 8)	13 April 2016	A public complaint referred by EPD was received by ET on 13 April 2016 (EPD Ref.: H05/RS/00008 367-16 dated 13 April 2016)	Outside the Hong Kong Academy for Performing Arts	Muddy water discharge from construction site	A public complaint regarding muddy water discharge referred by EPD was received by ET on 13 April 2016 (EPD Ref.: H05/RS/00008367-16 dated 13 April 2016). The complainant reported that muddy water was discharged from the construction work of Contract HK/2012/08 to the sea outside the Hong Kong Academy for Performing Arts on 13 April 2016 morning. ET confirmed with the Resident Site Staff that internal transport of soil to the hopper barge for storage via landing barge was conducted by Contractor of HK/2012/08 during 0800 hours to 1000 hours on 13 April 2016 at the sea outside the concerned location and 3 nos. of dump trucks were deployed for the operation. Protection measure including provision of sandbag bunding along the side of the landing barge was implemented by the Contractor of HK/2012/08.	Interim investigation report was submitted to the EPD on 21 April 2016. EPD advised no further comment on 6 June 2016 on the interim report submitted and case closed.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					April 2016 at the sea outside the concerned location and 3 nos. of dump trucks were deployed for the operation. Protection measure including provision of sandbag bunding along the side of the landing barge was implemented by the Contractor of HK/2012/08. In addition, amber rainstorm warning signal was hoisted from 0630 hours to 1200 hours on 13 April 2016 and during the above time period, muddy water was observed from the upstream of culvert L outside the HK/2012/08 site.	
					Follow up inspection was conducted on 19 April 2016, protection measures including provision of sandbag bunding along the side of the landing barge was implemented and no mud or soil deposition was observed along the seawall and no discharge point was located within the temporary water channel connecting the Culvert L outfall location to the Victoria Harbour. In addition, piling works was observed at the north side of Zone A1 on 19 April 2016 and construction effluent collection from piling work via sedimentation tank to wastewater treatment facility was implemented and steel barrier was installed around the piling works area to mitigate against potential surface runoff related impact.	
					Nevertheless, in view of the public concern, the Contractor was reminded to maintain adequate perimeter embankment protection along the seawall boundary and maintain proper construction effluent collection system to avoid potential runoff related impact to nearby waters.	
160706	30 June 2016	A public complaint referred by EPD was received by ET on 06 July	Construction area near Royal Hong Kong Yacht Club	Derrick barge moored near Royal Hong Kong Yacht Club emitted dark smoke since mid of June 2016.	A public complaint referred by EPD was received by ET on 06 July 2016 (Case Ref.: H05/RS/0016226-16). The complainant reported that a derrick barge in green colour under Contract HY/2009/15 moored near Royal Hong Kong Yacht Club emitted dark smoke since mid of June 2016.	Interim report was submitted to EPD on 14 July 2016.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
		2016 (Case Ref:. H05/RS/00016 226-16),			ET confirmed with Resident Site Staff that the concerned green derrick barge was identified as Yue Fat 206 (YF 206) and the concerned green derrick barge was operated within the Ex-PCWA area for excavation works intermittently across the period from 15 June 2016 to 30 June 2016. The concerned green derrick barge YF206 within Ex-PCWA area was no longer deployed under Contract HY/2009/15 after 02 July 2016. Follow-up inspection was conducted on 11 July 2016, the concerned derrick barge YF206 was not deployed at the concerned location and no dark smoke was observed from other derrick barge operating on-site. Nevertheless, in view of the public concern, the Contractor of HY/2009/15 was reminded to conduct regular checking and maintenance of all derrick barges deployed on site to ensure only well maintained equipment is used to avoid potential dark smoke emission affect nearby surroundings.	EPD advised no further comment on 20 September 2016 on the interim report submitted and case closed.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
160825	25 August 2016	A public complaint referred by EPD was received by ET on 25 August 2016 (Case Ref.: H08/RS/00012 592-16)	East of Temporary Reclamation Zone TS3, Causeway Bay Typhoon Shelter	Muddy water was observed at Causeway Bay Typhoon Shelter	A public complaint referred by EPD was received on 25 August 2016 (Case Ref.: H08/RS/00012592-16). The complainant reported that muddy water was observed at Causeway Bay Typhoon Shelter. ET confirmed with the Resident Site Staff that no marine construction activities were undertaken at the concerned location at East of Temporary Reclamation Zone TS3 within Causeway Bay Typhoon Shelther from 14:00hrs to 17:00hrs on 25 May 2016. Site control measures including the following were implemented by the Contractor of HY/2010/08 around the concerned location. Site control measures including i) Wastewater treatment facilities (AquaSed) were installed at TS3 for treatment of wastewater generated during construction activities. Sampling of effluent from AquaSed was conducted by the Contractor of HY/2010/08 and all results complied with the requirements in the Discharge Licence. Visual inspection and pH measurement of effluent were conducted daily by Environmental Supervisors and all results passed. ii) Brick/ earth/ sandbag bunds were installed alongside the site perimeter of TS3 to prevent muddy runoff into the sea. iii) Piping with idled ends were removed to prevent accidental discharge of untreated wastewater. iv) Diver inspection for silt curtains and/ or impermeable barriers was conducted on an ad-hoc basis. vii) Temporary cut slopes were shotcreted or properly covered with tarpaulin sheets. viii) Regular inspections were conducted by the RSS and Contractor's environmental representatives on regular basis on the conditions of mitigation measures implemented on site. Based on the complainant photo information, the exposed soil slope at Temporary Reclamation Zone TS3 were observed protected by covering and enclosed by double layer of impermeable barrier/ silt curtain and no contaminated discharge was identified. In addition, based on information from Hong Kong Observatory, the tidal condition on 25 May 2016 afternoon was found to	The Interim investigation report was submitted to EPD on 2 September 2016. EPD advised no further comment on 31 October 2016 on the interim report submitted and case closed.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
					be ebb-tide while non construction works marine vessel movements around the identified muddy plume within Causeway Bay Typhoon Shelter was observed in the complainant photo information.	
					Based on review on relevant records, no contaminated surface runoff and no contaminated discharge was identified at the concerned location during the environmental site inspection conducted on 25 May 2016. Follow up inspection was conducted on 31 August 2016 and seawall construction and filing works at the Temporary Reclamation Zone TS3 was observed completed. No contaminated discharge and no contaminated surface runoff was found.	
					Nevertheless, the contractor of HY/2010/08 was reminded to maintain appropriate bunding at seawall boundary for protection against potential surface runoff related impact. Also, the Contractor of HY/2010/08 was reminded to maintain proper site drainage for effluent collection and treatment system to ensure the compliance with relevant discharge license.	



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
180625	5 June 2018	An EPD complaint was referred to the ET on 25 June 2018 (CASE Ref: H05/RS/00001 5459-18)	Site outside Lung Wo Road	Muddy water discharge was found at the site outside Lung Wo Road on 5 June 2018 afternoon.	An EPD complaint was referred to the ET on 25 June 2018 (CASE Ref: H05/RS/000015459-18). The complainant reported that muddy water discharge was found at the site outside Lung Wo Road on 5 June 2018 afternoon. ET confirmed with the Resident Site Staff that installation of metal formwork at seawall was carried out on 5 June 2018 afternoon and mitigation measure including placing rock fill material on slope surface was implemented at the concerned location to reduce surface runoff. Follow up site inspection was conducted by the Environmental Team on 26 June 2018, no muddy water discharge or surface runoff related water quality impact was observed at construction area under HK/2012/08 near the concerned area Nevertheless, in view of the public concern, the Contractor of HK/2012/08 was reminded to provide addition tarpaulin covering to the slope surface along the seawall around the concerned location to reduce the potential surface runoff and maintain regular checking on the embankment condition to ensure no gap / void to avoid potential seepage / surface runoff to nearby water	The interim report will be submitted to EPD on 4 July 2018.



Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
180625	11 June 2018	An EPD complaint was referred to the ET on 25 June 2018 (CASE Ref: H05/RS/00015 954-18).	Construction Site near Wan Chai Pier	Construction dust and muddy water discharge was found at the site near Wan Chai Pier on 11 June 2018 afternoon.	ET confirmed with the Resident Site Staff that marine construction activity of removal of TWCR4 and stockpile of fill material at WCR3 Area were conducted under the Contractor of HK/2009/02 on 11 June 2018 afternoon. The Contractor of HK/2009/02 reported that double silt curtain was in place as mitigation measures during the marine activity and regular spraying water was provided as dust mitigation measures at WCR3 Area. Follow-up inspection was conducted on 28 June 2018, excavation works was observed at WCR3 Area and mitigation measures including watering during excavation was generally in place. Other dust mitigation measure includes covering the stockpile material and watering the dusty surface and haul road were generally in place. No particular dust impact was observed. No muddy water discharge or surface runoff related water quality monitoring impact was observed at Contract HK/2009/02 site area. Mitigation measures for marine activity includes providing double layers of silt curtain to enclose the marine activity area was generally in place and additional tarpaulin was provided to cover the temporary cut slope to avoid the potential surface runoff. In view of the public concern, the Contractor of HK/2009/02 was reminded to keep review the performance of dust mitigation measures including watering during excavation and material handling, covering the stockpile material and watering the dusty surface and haul road to avoid potential dust impact and minimize any potential dust impact to the surroundings. The Contractor of HK/2009/02 was also reminded to maintain regular checking on the embankment, silt curtain and tarpaulin condition to ensure no gap / void to avoid potential water quality related impact.	The interim report will be submitted to EPD on 4 July 2018.



Appendix 10.1

Construction Programme of Individual Contracts

ivity ID	Activity Name	Ori	Rem	Scheduled	Scheduled /	Total	Calendar		-		hune					201	8
		Dur	Dur	/Actual Start	Actual Finish	Float		20	7	03	June 10	17	24	01	08	July 15	
Remaining Work	ks Programme 2018-03-20 (dd 20-June-2018)															1	
Section 3 of the	Works - Reprovisioning of Government Helipad and Public Toilet																
	nd Convention Avenue - Outstanding Works													1	-	1	
S3-0070-1499D	Defects rectification works for the covered walkway at Expo Drive East - North Portion (Not affected by TTA)	24	25	28-Nov-16 A	17-Jul-18	-273	HK Working Day	:						<u>.</u>		be'	ects
S3-0070-1499D1	Defects rectification works for the covered walkway at Expo Drive East - South Portion (affected by TTA)	30	30	17-Jul-18	16-Aug-18	-273	HK Working Day		-							F	<u> </u>
S3-0070-1510	Diversion of existing earthing copper tapes, water pipes & telephone cables serving Dragon Pearl Cruise Pier (by others)	25	25	20-Jun-18	17-Jul-18	-273	HK Working Day									Div	ersio
S3-0070-1520	Construct end copings x 3 nos.	15	15	16-Aug-18	01-Sep-18	-273	HK Working Day	i i									
S3-0070-1530	Construct Paving Blocks adjacent to the end copings	6	6	01-Sep-18	07-Sep-18	-273	HK Working Day	i i						1			
Section 4A of the	e Works - Cooling Water Pumping System for Sun Hung Kai Centre (P8)								-								
	ork above Tunnel Portion & connecting to Pump Station								-					-			
S4A-0900A	Outstanding Works - Re-construction of EVA	18	45	15-Sep-17 A	11-Dec-18	-399	Calendar Day										
S4A-0900B	Outstanding Works - Rectification works of the features (incorrect levels) on top of P8	45	45	06-Jul-18*	20-Aug-18	209	Calendar Day							1	-	-	
S4A-0900C1	Submission for Raising the Vent Shaft and Water Meter Structure	60	15	05-Feb-18 A	06-Jul-18	-310	HK Working Day					i i i i i i i i i i i i i i i i i i i			Submiss	ion for Ra	sinç
S4A-0900C2	Raising the Vent Shaft and Water Meter Structure	60	60	13-Jul-18	13-Sep-18	-310	HK Working Day									<u> </u>	i i i i i i i i i i i i i i i i i i i
Section 4B of the	e Works - Cooling Water Pumping System for China Resources Building (P9)																
	ork above Tunnel Portion & connecting to Pump Station											r -					
S4B-0900A	Outstanding Works - Re-construction of EVA	18	72	15-Sep-17 A	11-Dec-18	-398	Calendar Day	:	:	1	:			:	:	:	1
S4B-0900B	Outstanding Works - Rectification works of the features (incorrect levels) on top of P9	45	45	06-Jul-18*	20-Aug-18	209	Calendar Day							▶		1	
S4B-0900C1	Submission for Raise Vent Shaft and Water Meter Room	60	15	05-Feb-18 A	06-Jul-18	-310	HK Working Day	i							Submiss	ion for Ra	ise \
S4B-0900C2	Raise Vent Shaft and Water Meter Room Structure	60	60	13-Jul-18	13-Sep-18	-310	HK Working Day									:	i -
	e Works - Cooling Water Pumping System for Great Eagle Centre / Harbour Centre (P7)																
	ork above Tunnel Portion & connecting to Pump Station							i.						-			
S4C-0900A	Outstanding Works - Re-construction of EVA	18	65	15 Son 17 A	11-Dec-18	-398	Colondar Day		-					<u>. </u>	:	:	<u>.</u>
				15-Sep-17 A			Calendar Day		1								
S4C-0900B S4C-0900C1	Outstanding Works - Rectification works of the features (incorrect levels) on top of P7 Submission for Raise Vent Shaft and Water Meter Room	45	45	06-Jul-18* 05-Feb-18 A	20-Aug-18	209 -338	Calendar Day HK Working Day	i							Submiss	ion for Ra	ito \
S4C-0900C1	Raise Vent Shaft and Water Meter Room Structure	60 60	15 60	13-Jul-18	06-Jul-18 13-Sep-18	-338	HK Working Day							·	Submissi		
		00	00	13-504-16	13-3ep-10	-030	THE WORKING Day								-		
Secuon 5 of the	Works - WSD Salt Water Pumping System															1	
WSD Salt Water Pr																1	
	S	40	Â	00.4==40.4	20 May 40 A		Onlandar Davi		Com	out defec	t rootified	tion wor	in at the	Frontword	of WSD	Dump etc	ion
Outstanding Works S5-OUT-1000	S Carry out defect rectification works at the front yard of WSD Pump station	10	0	20-Apr-18 A	30-May-18 A		Calendar Day		Cahy	out defec	t rectificat	tion wor	ks at the	front yard	of WSD	Pump sta	lion
Outstanding Works S5-OUT-1000 Section 8A of the	s Carry out defect rectification works at the front yard of WSD Pump station e Works - Reprovisioning of Wan Chai Ferry Pier in Area 8	10	0	20-Apr-18 A	30-May-18 A		Calendar Day		Cairry	out defec	t rectificat	tion won	ks at the	front yarc	of WSD	Pump sta	tion
Outstanding Works S5-OUT-1000 Section 8A of the Outstanding Worl	s Carry out defect rectification works at the front yard of WSD Pump station e Works - Reprovisioning of Wan Chai Ferry Pier in Area 8 ks in Section 8A		0						Carry	out defec	t rectificat	tion wor					
Outstanding Works S5-OUT-1000 Section 8A of the Outstanding Worl S8A-OUT-1040	S Carry out defect rectification works at the front yard of WSD Pump station e Works - Reprovisioning of Wan Chai Ferry Pier in Area 8 ks in Section 8A Relocation of fire hydrant near Ferry Pier	8	0	09-Mar-18 A	23-Jun-18 A		HK Working Day		Cahy	out defec	t rectifica	tion wor		front yard			
Outstanding Works S5-OUT-1000 Section 8A of the Outstanding Work S8A-OUT-1040 S8A-OUT-1060	S Carry out defect rectification works at the front yard of WSD Pump station e Works - Reprovisioning of Wan Chai Ferry Pier in Area 8 ks in Section 8A Relocation of fire hydrant near Ferry Pier Reinstatement works of the flooring inside the rooms under staircase ST-01 of the Ferry Pier	8 12	0	09-Mar-18 A 28-Dec-17 A	23-Jun-18 A 29-Jan-18 A		HK Working Day HK Working Day		Cany	out defec	t rectificat	tion wor					
Outstanding Works S5-OUT-1000 Section 8A of the Outstanding Work S8A-OUT-1040 S8A-OUT-1060 S8A-OUT-1070	S Carry out defect rectification works at the front yard of WSD Pump station e Works - Reprovisioning of Wan Chai Ferry Pier in Area 8 ks in Section 8A Relocation of fire hydrant near Ferry Pier Reinstatement works of the flooring inside the rooms under staircase ST-01 of the Ferry Pier Reinstatement works of the flooring under the temporary covered walkway	8	0	09-Mar-18 A	23-Jun-18 A		HK Working Day		Cany	out defec	t rectifica	tion wor					
Outstanding Works S5-OUT-1000 Section 8A of the Outstanding Work S8A-OUT-1040 S8A-OUT-1060 S8A-OUT-1070	S Carry out defect rectification works at the front yard of WSD Pump station e Works - Reprovisioning of Wan Chai Ferry Pier in Area 8 ks in Section 8A Relocation of fire hydrant near Ferry Pier Reinstatement works of the flooring inside the rooms under staircase ST-01 of the Ferry Pier	8 12	0	09-Mar-18 A 28-Dec-17 A	23-Jun-18 A 29-Jan-18 A		HK Working Day HK Working Day		Catry	out defec	t rectifica	tion wor					
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Outstanding Works S5-OUT-1000 Section 8A of the Outstanding Work S8A-OUT-1040 S8A-OUT-1060 S8A-OUT-1070 Section 9B of the Tunnel Portion 1 (CWB Structural Works Outstanding Works	S Carry out defect rectification works at the front yard of WSD Pump station e Works - Reprovisioning of Wan Chai Ferry Pier in Area 8 ks in Section 8A Relocation of fire hydrant near Ferry Pier Reinstatement works of the flooring inside the rooms under staircase ST-01 of the Ferry Pier Reinstatement works of the flooring under the temporary covered walkway e Works - CWB Tunnel Structure (CH3400 - CH3796) (CH3500-CH3630) orks	8 12	0	09-Mar-18 A 28-Dec-17 A	23-Jun-18 A 29-Jan-18 A		HK Working Day HK Working Day		Cany	out defec	t rectifica	tion wor					
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Outstanding Works S5-OUT-1000 Section 8A of the Outstanding Work S8A-OUT-1040 S8A-OUT-1060 S8A-OUT-1070 Section 9B of the Tunnel Portion 1 (CWB Structural Works S9B-T1-OUT-1040	S Carry out defect rectification works at the front yard of WSD Pump station e Works - Reprovisioning of Wan Chai Ferry Pier in Area 8 ks in Section 8A Relocation of fire hydrant near Ferry Pier Reinstatement works of the flooring inside the rooms under staircase ST-01 of the Ferry Pier Reinstatement works of the flooring under the temporary covered walkway e Works - CWB Tunnel Structure (CH3400 - CH3796) (CH3500-CH3630) orks	8 12 6	0 0 0	09-Mar-18 A 28-Dec-17 A 05-Jan-18 A	23-Jun-18 A 29-Jan-18 A 26-Jan-18 A	-228 243	HK Working Day HK Working Day HK Working Day		Салу	out defec	t rectifice	tion wof	Relocat	tion of fire	hydrant n	ear Ferry	Pier /ate
Outstanding Works S5-OUT-1000 Section 8A of the Outstanding Work S8A-OUT-1040 S8A-OUT-1060 S8A-OUT-1070 Section 9B of the Tunnel Portion 1 (CWB Structural Works S9B-T1-OUT-1040	S Carry out defect rectification works at the front yard of WSD Pump station e Works - Reprovisioning of Wan Chai Ferry Pier in Area 8 ks in Section 8A Relocation of fire hydrant near Ferry Pier Reinstatement works of the flooring inside the rooms under staircase ST-01 of the Ferry Pier Reinstatement works of the flooring under the temporary covered walkway e Works - CWB Tunnel Structure (CH3400 - CH3796) (CH3500-CH3630) orks TB1 - Rectification works against water leakage for tunnel side walls TB1 - Carry out CCTV inspection for the drainage system	8 12 6 25	0 0 0 5	09-Mar-18 A 28-Dec-17 A 05-Jan-18 A 28-Sep-17 A	23-Jun-18 A 29-Jan-18 A 26-Jan-18 A 26-Jan-18 A		HK Working Day HK Working Day HK Working Day Calendar Day		Cany	out defec	t rectifice	tion wof	Relocat	tion of fire	hydrant n	ear Ferry against w	Pier /ate
Outstanding Works S5-OUT-1000 Section 8A of the Outstanding Work S8A-OUT-1040 S8A-OUT-1060 S8A-OUT-1070 Section 9B of the Tunnel Portion 1 (CWB Structural Works S9B-T1-OUT-1040 S9B-T1-OUT-1045	S Cary out defect rectification works at the front yard of WSD Pump station e Works - Reprovisioning of Wan Chai Ferry Pier in Area 8 ks in Section 8A Relocation of fire hydrant near Ferry Pier Reinstatement works of the flooring inside the rooms under staircase ST-01 of the Ferry Pier Reinstatement works of the flooring under the temporary covered walkway e Works - CWB Tunnel Structure (CH3400 - CH3796) (CH3500-CH3630) orks TB1 - Rectification works against water leakage for tunnel side walls TB1 - Carry out CCTV inspection for the drainage system (CH3425-CH3500)	8 12 6 25	0 0 0 5	09-Mar-18 A 28-Dec-17 A 05-Jan-18 A 28-Sep-17 A	23-Jun-18 A 29-Jan-18 A 26-Jan-18 A 26-Jan-18 A		HK Working Day HK Working Day HK Working Day Calendar Day		Cany	out defec	t rectifice	tion wof	Relocat	tion of fire	hydrant n	ear Ferry against w	Pier /ate
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Outstanding Works S5-OUT-1000 Section 8A of the Outstanding Work S8A-OUT-1040 S8A-OUT-1060 S8A-OUT-1060 S8A-OUT-1070 Section 9B of the Tunnel Portion 1 (CWB Structural Works S9B-T1-OUT-1040 S9B-T1-OUT-1045 Tunnel Portion 2 (CWB Structural Works S9B-T2-6025 S9B-T2-6035 Outstanding Works	S Cary out defect rectification works at the front yard of WSD Pump station e Works - Reprovisioning of Wan Chai Ferry Pier in Area 8 ks in Section 8A Relocation of fire hydrant near Ferry Pier Reinstatement works of the flooring inside the rooms under staircase ST-01 of the Ferry Pier Reinstatement works of the flooring under the temporary covered walkway e Works - CWB Tunnel Structure (CH3400 - CH3796) (CH3500-CH3630) orks TB1 - Rectification works against water leakage for tunnel side walls TB1 - Carry out CCTV inspection for the drainage system (CH3425-CH3500) orks Carry out remedial works at the tunnel top slab inside the access shaft in Tunnel Portion 2 Cut down the access shaft to 1.5 metres below final formation level and backfill in Tunnel Portion 2	8 12 6 25 27 6 9	0 0 0 5 27	09-Mar-18 A 28-Dec-17 A 05-Jan-18 A 28-Sep-17 A 14-May-18 A 11-Oct-17 A 19-Oct-17 A	23-Jun-18 A 29-Jan-18 A 26-Jan-18 A 24-Jun-18 16-Jul-18 16-Jul-18 14-Nov-17 A 14-Nov-17 A	243	HK Working Day HK Working Day HK Working Day Calendar Day Calendar Day HK Working Day		Calty	out defec	t rectifice	tion wor	Relocat	tion of fire	hydrant n	ear Ferry against w	Pier /ate
Outstanding Works S5-OUT-1000 Section 8A of the Outstanding Work S8A-OUT-1040 S8A-OUT-1040 S8A-OUT-1060 S8A-OUT-1070 Section 9B of the Tunnel Portion 1 (CWB Structural Works S9B-T1-OUT-1040 S9B-T1-OUT-1045 Tunnel Portion 2 (CWB Structural Work S9B-T2-6025 S9B-T2-6035 Outstanding Works S9B-T2-OUT-1040	S Carry out defect rectification works at the front yard of WSD Pump station e Works - Reprovisioning of Wan Chai Ferry Pier in Area 8 ks in Section 8A Relocation of fire hydrant near Ferry Pier Reinstatement works of the flooring inside the rooms under staircase ST-01 of the Ferry Pier Reinstatement works of the flooring under the temporary covered walkway e Works - CWB Tunnel Structure (CH3400 - CH3796) (CH3500-CH3630) orks TB1 - Rectification works against water leakage for tunnel side walls TB1 - Carry out CCTV inspection for the drainage system (CH3425-CH3500) orks Carry out remedial works at the tunnel top slab inside the access shaft in Tunnel Portion 2 Cut down the access shaft to 1.5 metres below final formation level and backfill in Tunnel Portion 2 TB2 - Rectification works against water leakage for tunnel side walls	8 12 6 25 27 6 9 9	0 0 0 5 27 0 0 0	09-Mar-18 A 28-Dec-17 A 05-Jan-18 A 28-Sep-17 A 14-May-18 A 11-Oct-17 A 19-Oct-17 A 28-Sep-17 A	23-Jun-18 A 29-Jan-18 A 26-Jan-18 A 26-Jan-18 A 24-Jun-18 16-Jul-18 16-Jul-18 14-Nov-17 A 14-Nov-17 A 14-Nov-17 A	-228	HK Working Day HK Working Day HK Working Day Calendar Day Calendar Day HK Working Day HK Working Day		Cany	out defec	t rectifice		Relocat	tion of fire	hydrant n	ear Ferry against w B1	Pier ⁄ate
Outstanding Works S5-OUT-1000 Section 8A of the Outstanding Work S8A-OUT-1040 S8A-OUT-1040 S8A-OUT-1060 S8A-OUT-1070 Section 9B of the Tunnel Portion 1 (CWB Structural Works S9B-T1-OUT-1045 Tunnel Portion 2 (CWB Structural Works S9B-T2-6025 S9B-T2-6035 Outstanding Works S9B-T2-OUT-1040 S9B-T2-OUT-1045	S Carry out defect rectification works at the front yard of WSD Pump station e Works - Reprovisioning of Wan Chai Ferry Pier in Area 8 ks in Section 8A Relocation of fire hydrant near Ferry Pier Reinstatement works of the flooring inside the rooms under staircase ST-01 of the Ferry Pier Reinstatement works of the flooring under the temporary covered walkway e Works - CWB Tunnel Structure (CH3400 - CH3796) (CH3500-CH3630) orrks TB1 - Rectification works against water leakage for tunnel side walls TB1 - Carry out CCTV inspection for the drainage system (CH3425-CH3500) orks Carry out remedial works at the tunnel top slab inside the access shaft in Tunnel Portion 2 Cut down the access shaft to 1.5 metres below final formation level and backfill in Tunnel Portion 2 TB2 - Rectification works against water leakage for tunnel side walls TB2 - Carry out CCTV inspection for the drainage system	8 12 6 25 27 6 9	0 0 0 5 27 0 0	09-Mar-18 A 28-Dec-17 A 05-Jan-18 A 28-Sep-17 A 14-May-18 A 11-Oct-17 A 19-Oct-17 A	23-Jun-18 A 29-Jan-18 A 26-Jan-18 A 24-Jun-18 16-Jul-18 16-Jul-18 14-Nov-17 A 14-Nov-17 A	243	HK Working Day HK Working Day HK Working Day Calendar Day Calendar Day HK Working Day		Cany	out defec			Relocat	tion of fire	hydrant n	ear Ferry against w	Pier ⁄ate
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/ ID	Activity Name	On Dur	Rem Dur	Scheduled /Actual Start	Scheduled / Actual Finish	Total Float	Calendar	00 00		June	47	24		July
S11-RTC-3580	Works outside Temp D-Wall - Construct the remaining part of Type 7 seawal	51	51	19-Sep-18	14-Nov-18	-685	HK Working Day	20 27	03	10 1	17	24 0	1 08	8
S11-RTC-3596	Removal of the sheet piles adjacent to the Type 7 seawall at the west side	13	13	18-Jul-18	31-Jul-18	-250	HK Working Day	_						լլ
Temporary Works a	at North West corner of Tunnel Portion 3 and 4						0,1							
S11-TW-1230	Tie back SP Wall - Install brackets and waling to sheet pile wall (2nos.@4 days/no.)	6	0	18-May-18 A	08-Jun-18 A		HK Working Day	:	Tie I	back SP V	Vall - Inst	all brackets a	and waling	to she
S11-TW-1240	Tie back SP Wall - Install tie back (4nos. @1no./day)	4	0	08-Jun-18 A	14-Jun-18 A		HK Working Day		►	Tie pa	ck SP W	Vall - Inistall t	ie back (4	nos. @
Removal of Tempo	rary D-Wall CH 3630 to CH 3710													
S11-RTC-3341b	Preparation for D-Wall Cutting - Remaining Coring inside D Wall (72 nos.for lifting, 3 machine@1no./machine/day)	24	0	30-Aug-17 A	22-May-18 A		HK Working Day	Preparation	n for D-Wall Cutt	ting - Rem	aining Cr	oring inside	D Wall (72	nos.for
S11-RTC-3345	Preparation for D-Wall Cutting -Advance Coring within tunnel cofferdam (37 nos., 3 machines@1no./machine/day)	23	0	02-May-18 A	22-May-18 A		HK Working Day	Preparation	n for D-Wall Cutt	ting-Adva	nce Cori	ng within tu	nnel coffer	dam (3
S11-RTC-3348	Filling water inside cofferdam up to -2mPD (2 pumps)	6	6	28-Jun-18	05-Jul-18	-688	HK Working Day					-	-Filling v	
S11-RTC-3349	Filling water inside cofferdam up to +2mPD	1	1	04-Aug-18	06-Aug-18	-718	HK Working Day							
S11-RTC-3355	Remaining D-Wall Coring underwater (37 nos. at 3nos./day)	13	13	06-Aug-18	18-Aug-18	-718	HK Working Day	_						i
S11-RTC-3385	Cutting Temporary D-Wall (18 vertical cuts; 2 machines@ 1cut/machine/day)	18	18	14-Aug-18	01-Sep-18	-718	HK Working Day							
S11-RTC-3394	Cutting Temp D-Wall (36 horizontal cuts; 2 machines@ 1cut/machine/day) to original seabed level	25	25	18-Aug-18	13-Sep-18	-718	HK Working Day							
S11-RTC-3398	Removal of Temp D-Wall blocks	0	0	13-Sep-18	13-Sep-18	-718	HK Working Day	_						-
Hung Hing Road F	lyover Reinstatement													
Hung Hing Road Fl	yover - Road Works and Street Furniture													
S11-HH-4082	Reinstatement of HHR Flyover - MJ Installation at Bay 3	6	0	10-Oct-17 A	16-Oct-17 A		Calendar Day							-
Reinstatement of B														
S11-BCO-2016	Box Culvert O Reinstatement - Design of Box Culvert 'O' by designer and reviewed by CW-CRGLJV	45	12	18-Aug-17 A	03-Jul-18	235	HK Working Day						Box Culv	ert Ó R
S11-BCO-2020	Box Culvert O Reinstatement - Design Submission of Box Culvert 'O' for comment and approval by AECOM	35	12	25-Oct-17 A	03-Jul-18	236	HK Working Day						Box Culv	ert Ó Re
S11-BCO-2022	Box Culvert O Reinstatement - Precast Units Fabrication and Delivery (Total = 66 units @1.5no/day + 20d delivery)	64	16	19-Apr-18 A	07-Jul-18	232	HK Working Day						Box	Culvert
S11-BCO-2050a	Box Culvert O Reinstatement - Carry out inspection and defect rectification to Bay 18-19 at the north	1	1	20-Jun-18	20-Jun-18	-678	HK Working Day	_			Box (ulvert O Re	einstatem(ent - Ca
S11-BCO-2060a	Box Culvert O Reinstatement - Final inspection of Bay 13-19	2	2	26-Jul-18	28-Jul-18	-712	HK Working Day		· · · · · · · · · · · · · · · · · · ·					
S11-BCO-2070a	Box Culvert O Reinstatement - Diversion of flow to reinstated box culvert	1	1	03-Aug-18	04-Aug-18	-718	HK Working Day							
S11-BCO-2080a	Box Culvert O Reinstatement - Reinstate the opening of box culvert Bay 12	80	80	04-Aug-18	30-Oct-18	-360	HK Working Day	_						
Box Culvert O Cons	struction (Tunnel Section) - Bay 15A and Bay 16A													
S11-BCO-2096	Box Culvert O Reinstatement - Backfill above Bay 15A and Bay 16A inside tunnel section in dry and break up D-Wall	20	20	15-May-18 A	11-Jul-18	-257	HK Working Day						━┿━	Box C
Box Culvert O Cons	struction (Outfall Section) - Bay 17A and 17B (Insitu)													
S11-BCO-2116	Insert Soil into Pipe Piles and grouting at Bay 17A 17B (154 no., 6 no. per day)	14	0	02-May-18 A	21-May-18 A		HK Working Day	Insert Soil int	to Pipe Piles and	1 grouting				
S11-BCO-2118	Demolish Remaning Part of Bay 17A	6	0	21-May-18 A	20-Jun-18 A		HK Working Day					sh Remani		1
S11-BCO-2120	Excavate soil at Bay 17A 17B	6	0	16-Apr-18 A	20-Jun-18 A		HK Working Day					ate soil at B	1	-
S11-BCO-2122	Erection of Strut and Waler (1 layer, 3 Struts) at Bay 17A, 17B	8	0	18-Apr-18 A	11-Jun-18 A		HK Working Day			Erection o		rd Waler (1		
S11-BCO-2124	Demolition of Bulkhead Wall at Bay 18	8	0	05-Jun-18 A	20-Jun-18 A		HK Working Day		► 		Demo	ition of Bulk	thead Wal	latBay
044 000 0400	Demolition of North D Mall (2 2m DD, 110m2) at Boy 17A	6	0	19-May-18 A			HK Working Day					ton of North		
S11-BCO-2126	Demolition of North D-Wall (-2.2mPD, 110m3) at Bay 17A	0	U	13-1VIAy-10 A	19-Jun-18 A						Gr	nade 200 Ro	ckfil to Fo	1
S11-BCO-2126 S11-BCO-2128	Grade 200 Rockfill to Formation Level at Bay 17A, 17B	3	3	20-Jun-18 A	19-Jun-18 A 22-Jun-18	-718	HK Working Day							
			-			-718 -718	HK Working Day HK Working Day					ace Blindin	-	- 7
S11-BCO-2128	Grade 200 Rockfill to Formation Level at Bay 17A, 17B	3	3	20-Jun-18 A	22-Jun-18			_				ace Blindin Constructi	-	- 7
S11-BCO-2128 S11-BCO-2131	Grade 200 Rockfill to Formation Level at Bay 17A, 17B Place Blinding Layer at Bay 17A, 17B	3	3	20-Jun-18 A 22-Jun-18	22-Jun-18 23-Jun-18	-718	HK Working Day						ion of Bay	7A Ba
S11-BCO-2128 S11-BCO-2131 S11-BCO-2132	Grade 200 Rockfill to Formation Level at Bay 17A, 17B Place Blinding Layer at Bay 17A, 17B Construction of Bay 17A Base Slab formwork	3 1 1	3 1 1	20-Jun-18 A 22-Jun-18 23-Jun-18	22-Jun-18 23-Jun-18 25-Jun-18	-718 -718	HK Working Day HK Working Day	-					ion of Bay	7A Bas nuction c
S11-BCO-2128 S11-BCO-2131 S11-BCO-2132 S11-BCO-2132-1	Grade 200 Rockfill to Formation Level at Bay 17A, 17B Place Blinding Layer at Bay 17A, 17B Construction of Bay 17A Base Slab formwork Construction of Bay 17A Base Slab Rebar	3 1 1 2	3 1 1 2	20-Jun-18 A 22-Jun-18 23-Jun-18 03-Jul-18	22-Jun-18 23-Jun-18 25-Jun-18 05-Jul-18	-718 -718 -718	HK Working Day HK Working Day HK Working Day						ion of Bay Constr	7A Bas nuction of struction
S11-BCO-2128 S11-BCO-2131 S11-BCO-2132 S11-BCO-2132-1 S11-BCO-2132-2	Grade 200 Rockfill to Formation Level at Bay 17A, 17B Place Blinding Layer at Bay 17A, 17B Construction of Bay 17A Base Slab formwork Construction of Bay 17A Base Slab Rebar Construction of Bay 17A Base Slab Concreting	3 1 1 2 1	3 1 1 2 1	20-Jun-18 A 22-Jun-18 23-Jun-18 03-Jul-18 06-Jul-18	22-Jun-18 23-Jun-18 25-Jun-18 05-Jul-18 07-Jul-18	-718 -718 -718 -718	HK Working Day HK Working Day HK Working Day HK Working Day	-					ion of Bay Constr	7A Bas nuction c
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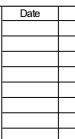
Critical Milestones

CurrentWorks Critical Works

Remaining Level of Effort

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 (data date 20-Jun-18)



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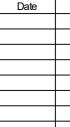
	Activity Name	Ori Dur	Rem Dur	Scheduled /Actual Start	Scheduled / Actual Finish	Total Float	Calendar	2018 June July 20 27 02 10 17 24 01 08 15
S11-BCO-2158	Demolish Remaning Part of Bay 14A 14B	8	0	01-Jun-18 A	06-Jun-18 A		HK Working Day	20 27 03 10 17 24 01 08 15 Demolish Rentanting Part of Bay 14A 14B
S11-BCO-2160	Excavate soil at Bay 14A 14B	18	0	01-Jun-18 A	06-Jun-18 A		HK Working Day	Excavate soil at Bay 14A 14B
S11-BCO-2162	Erection of Strut and Waler (3 layers) at Bay 14A 14B	18	0	20-May-18 A	06-Jun-18 A		HK Working Day	Erection of Strut and Waler (3 layers) at Bay 14A 14B
S11-BCO-2166	Demolition of South D-Wal (-2.2mPD, 110m3) at Bay 14A 14B	8	0	21-May-18 A	01-Jun-18 A		HK Working Day	Demolition of South D-Wall (-2.2mPD, 110m3) at Bay 14A 14B
S11-BCO-2168	Grade 200 Rockfill to Formation Level at Bay 14A 14B	3	0	07-Jun-18 A	11-Jun-18 A		HK Working Day	Grade 200 Rockfill to Formation Level at Bay 14A 14B
S11-BCO-2172	Place Blinding Layer at Bay 14A 14B	1	0	11-Jun-18 A	11-Jun-18 A		HK Working Day	Place Binding Layer at Bay 14A 14B
S11-BCO-2173	Construction of Bay 14B Base Slab formwork	1	1	12-Jun-18 A	20-Jun-18	247	HK Working Day	Construction of Bay 14B Base Slab form
S11-BCO-2173-1	Construction of Bay 14B Base Slab Rebar	2	2	16-Jun-18 A	21-Jun-18	234	HK Working Day	Construction of Bay 14B Base Slab Ret
S11-BCO-2173-2	Construction of Bay 14B Base Slab Concreting	1	1	21-Jun-18	22-Jun-18	234	HK Working Day	Construction of Bay 14B Base Slab Co
S11-BCO-2173a	Construction of Bay 14B Wall and Top Slab Formwork	7	7	22-Jun-18	29-Jun-18	234	HK Working Day	Construction of Bay 14B Wal
S11-BCO-2173a1	Construction of Bay 14B Wall Rebar	3	3	26-Jun-18	28-Jun-18	234	HK Working Day	Construction of Bay 14B Wall
S11-BCO-2173a1	Construction of Bay 14B Top Slab Rebar	3	3	29-Jun-18	04-Jul-18	234	HK Working Day	Construction of Bay 14
S11-BCO-2173a2	Construction of Bay 14B Top Slab Scaffolding	2	2	25-Jun-18	27-Jun-18	237	HK Working Day	Construction of Bay 14B Top Sta
S11-BCO-2173a3 S11-BCO-2173a4		1	2	04-Jul-18	05-Jul-18	237	HK Working Day	Construction of Bay
	Construction of Bay 14B Wall and Top Slab Concreting					234		
311-BCO-2173b	Construction of Bay 14A Base Slab Formwork	2	0	12-Jun-18 A	15-Jun-18 A		HK Working Day	Construction of Bay 14A Base Slab Formwork
S11-BCO-2173b1	Construction of Bay 14A Base Slab Rebar	3	0	14-Jun-18 A	15-Jun-18 A	-	HK Working Day	Construction of Bay 14A Base Slab Rebar
S11-BCO-2173b2	Construction of Bay 14A Base Slab Concreting	1	1	16-Jun-18 A	20-Jun-18	-709	HK Working Day	Construction of Bay 14A Base Slab Cond
611-BCO-2173c	Construction of 14A Wall and Top Slab Formwork	7	7	20-Jun-18	28-Jun-18	-709	HK Working Day	Construction of 14A Wall and
S11-BCO-2173c1	Construction of 14A Wall Rebar	3	3	20-Jun-18	23-Jun-18	-709	HK Working Day	Construction of 14A Wall Rebar, Con
S11-BCO-2173c2	Construction of 14A Top Slab Rebar	5	5	27-Jun-18	03-Jul-18	-709	HK Working Day	Construction of 14A To
S11-BCO-2173c3	Construction of 14A Top Slab Scaffolding	5	5	21-Jun-18	27-Jun-18	-709	HK Working Day	Construction of 14A Top Slab S
S11-BCO-2173c4	Construction of 14A Wall and Top Slab Concreting	1	1	03-Jul-18	04-Jul-18	-709	HK Working Day	Construction of 14A V
S11-BCO-2178	Backfill to Ground Level (4m Height, 2 Layer/day 300 thk) at Bay 14A 14B	10	10	04-Jul-18	14-Jul-18	-220	HK Working Day	Backfill
x Culvert O Cons	truction (South Portion) - Bay 14 to Bay 13 (Precast Base and Wall)							
1-BCO-2320	Box Culvert O Reinstatement - Bay 14 Demolish Remaning Part	5	0	01-Jun-18 A	13-Jun-18 A		HK Working Day	Box Culvert © Reinstatement - Bay 14 Demolish R
11-BCO-2322	Box Culvert O Reinstatement - Bay 14 Excavate soil	6	0	01-Jun-18 A	13-Jun-18 A		HK Working Day	Box Culvert O Reinstatement - Bay 14 Excavate so
11-BCO-2324	Box Culvert O Reinstatement - Bay 14 Erection of Strut and Waler (1 layer,4 struts)	14	0	01-Jun-18 A	13-Jun-18 A		HK Working Day	-►
1-BCO-2326	Box Culvert O Reinstatement - Bay 14 Grade 200 Rockfill to Formation Level (Remaining Portion)	6	0	14-Jun-18 A	15-Jun-18 A		HK Working Day	Box Culvert O Reinstatement - Bay 14 Grade 20
11-BCO-2328	Box Culvert O Reinstatement - Bay 14 Place Blinding Layer	1	0	16-Jun-18 A	16-Jun-18 A		HK Working Day	► Heliox Culvert O Reinstatement - Bay 14 Place B
1-BCO-2330	Box Culvert O Reinstatement - Bay 14 Install Precast Units (1.35m per unit of 30T, 22 units @4 units/day)	3	3	06-Jul-18	09-Jul-18	-709	HK Working Day	Box Culvert O
-BCO-2331	Box Culvert O Reinstatement - Bay 14 Construction of Top Slab form work	1	1	10-Jul-18	10-Jul-18	-708	HK Working Day	Box Culvert (
	Box Culvert O Reinstatement - Bay 14 Construction of Top Slab Rebar	1	1	11-Jul-18	12-Jul-18	-708	HK Working Day	Bpx Culve
-BCO-2332	Box Culvert O Reinstatement - Bay 14 Construction of Top Slab Concreting	1	1	12-Jul-18	13-Jul-18	-708	HK Working Day	Box Culv
					10 041 10			
1-BCO-2333		3	0	01_lun_18 Δ	15- lun-18 A			Box Culvert O Reinstatement - Bay 13 Demolis
11-BCO-2333 11-BCO-2370	Box Culvert O Reinstatement - Bay 13 Demolish Remaning Part	3	0	01-Jun-18 A	15-Jun-18 A		HK Working Day	
11-BCO-2333 11-BCO-2370 11-BCO-2372	Box Culvert O Reinstatement - Bay 13 Demolish Remaning Part Box Culvert O Reinstatement - Bay 13 Excavate soil	6	0	01-Jun-18 A	15-Jun-18 A		HK Working Day	Box Culvert O Reinstatement - Bay 13 Excavate
11-BCO-2333 11-BCO-2370 11-BCO-2372 11-BCO-2374	Box Culvert O Reinstatement - Bay 13 Demolish Remaning Part Box Culvert O Reinstatement - Bay 13 Excavate soil Box Culvert O Reinstatement - Bay 13 Erection of Strut and Waler (1 layer,4 struts)	6 5	0	01-Jun-18 A 01-Jun-18 A	15-Jun-18 A 11-Jun-18 A		HK Working Day HK Working Day	► Bay 13 Excavate ► Bay 13 Excavate
1-BCO-2333 1-BCO-2370 1-BCO-2372 1-BCO-2374 1-BCO-2376	Box Culvert O Reinstatement - Bay 13 Demolish Remaning Part Box Culvert O Reinstatement - Bay 13 Excavate soil Box Culvert O Reinstatement - Bay 13 Erection of Strut and Waler (1 layer,4 struts) Box Culvert O Reinstatement - Bay 13 Grade 200 Rockfill to Formation Level (Remaining Portion)	6 5 7	0 0 7	01-Jun-18 A 01-Jun-18 A 16-Jun-18 A	15-Jun-18 A 11-Jun-18 A 27-Jun-18	-699	HK Working Day HK Working Day HK Working Day	Box Culvert O Reinstatement - Bay 13 Excavate Box Cuvert O Reinstatement - Bay 13 Excavate Box Cuvert O Reinstatement - Bay 13 Excavate Box Culvert O Reinstatement -
1-BCO-2333 1-BCO-2370 1-BCO-2372 1-BCO-2374 1-BCO-2376 1-BCO-2378	Box Culvert O Reinstatement - Bay 13 Demolish Remaning Part Box Culvert O Reinstatement - Bay 13 Excavate soil Box Culvert O Reinstatement - Bay 13 Erection of Strut and Waler (1 layer,4 struts) Box Culvert O Reinstatement - Bay 13 Grade 200 Rockfill to Formation Level (Remaining Portion) Box Culvert O Reinstatement - Bay 13 Grade 200 Rockfill to Formation Level (Remaining Portion) Box Culvert O Reinstatement - Bay 13 Place Blinding Layer	6 5 7 1	0 0 7 1	01-Jun-18 A 01-Jun-18 A 16-Jun-18 A 27-Jun-18	15-Jun-18 A 11-Jun-18 A 27-Jun-18 28-Jun-18	-699	HK Working Day HK Working Day HK Working Day HK Working Day	Box Culvert O Reinstatement - Bay 13 Excavate Box Culvert O Reinstatement - Bay 13 Election of Str Box Culvert O Reinstatement - Box Culvert O Reinstatement
1-BCO-2333 1-BCO-2370 1-BCO-2372 1-BCO-2374 1-BCO-2376 1-BCO-2378 1-BCO-2380	Box Culvert O Reinstatement - Bay 13 Demolish Remaning Part Box Culvert O Reinstatement - Bay 13 Excavate soil Box Culvert O Reinstatement - Bay 13 Erection of Strut and Waler (1 layer,4 struts) Box Culvert O Reinstatement - Bay 13 Grade 200 Rockfill to Formation Level (Remaining Portion) Box Culvert O Reinstatement - Bay 13 Place Blinding Layer Box Culvert O Reinstatement - Bay 13 Install Precast Units (1.35m per unit of 30T, 22 units @4 units/day)	6 5 7	0 0 7 1 5	01-Jun-18 A 01-Jun-18 A 16-Jun-18 A 27-Jun-18 10-Jul-18	15-Jun-18 A 11-Jun-18 A 27-Jun-18 28-Jun-18 14-Jul-18	-699 -709	HK Working Day HK Working Day HK Working Day HK Working Day HK Working Day	Box Culvert O Reinstatement - Bay 13 Excavate Box Culvert O Reinstatement - Bay 13 Election of Str Box Culvert D Reinstatement - Box Culvert D Reinstatement Box Culver O Reinstatement Box Culver D Reinstatement Box Culver D Reinstatement
1-BCO-2333 1-BCO-2370 1-BCO-2372 1-BCO-2374 1-BCO-2376 1-BCO-2378 1-BCO-2380 1-BCO-2380a	Box Culvert O Reinstatement - Bay 13 Demolish Remaning Part Box Culvert O Reinstatement - Bay 13 Excavate soil Box Culvert O Reinstatement - Bay 13 Erection of Strut and Waler (1 layer,4 struts) Box Culvert O Reinstatement - Bay 13 Grade 200 Rockfill to Formation Level (Remaining Portion) Box Culvert O Reinstatement - Bay 13 Place Blinding Layer Box Culvert O Reinstatement - Bay 13 Install Precast Units (1.35m per unit of 30T, 22 units @4 units/day) Box Culvert O Reinstatement - Bay 13 Construction of Top Slab formwork	6 5 7 1	0 0 7 1	01-Jun-18 A 01-Jun-18 A 16-Jun-18 A 27-Jun-18 10-Jul-18 14-Jul-18	15-Jun-18 A 11-Jun-18 A 27-Jun-18 28-Jun-18 14-Jul-18 16-Jul-18	-699 -709 -709	HK Working Day HK Working Day HK Working Day HK Working Day HK Working Day HK Working Day	Box Culvert O Reinstatement - Bay 13 Excavate Box Culvert O Reinstatement - Bay 13 Election of Str Box Culvert D Reinstatement Box Culvert D Reinstatement Box Culver O Reinstatement Box Culver D Reinstatement Box Culver D Reinstatement Box Culver D Reinstatement Box Culver D Reinstatement
11-BCO-2333 11-BCO-2370 11-BCO-2372 11-BCO-2374 11-BCO-2376 11-BCO-2378 11-BCO-2380 11-BCO-2380a	Box Culvert O Reinstatement - Bay 13 Demolish Remaning Part Box Culvert O Reinstatement - Bay 13 Excavate soil Box Culvert O Reinstatement - Bay 13 Erection of Strut and Waler (1 layer,4 struts) Box Culvert O Reinstatement - Bay 13 Grade 200 Rockfill to Formation Level (Remaining Portion) Box Culvert O Reinstatement - Bay 13 Place Blinding Layer Box Culvert O Reinstatement - Bay 13 Install Precast Units (1.35m per unit of 30T, 22 units @4 units/day)	6 5 7 1 5	0 0 7 1 5	01-Jun-18 A 01-Jun-18 A 16-Jun-18 A 27-Jun-18 10-Jul-18	15-Jun-18 A 11-Jun-18 A 27-Jun-18 28-Jun-18 14-Jul-18	-699 -709	HK Working Day HK Working Day HK Working Day HK Working Day HK Working Day	Box Culvert O Reinstatement - Bay 13 Excavate Box Culvert O Reinstatement - Bay 13 Election of Str Box Culvert D Reinstatement Box Culvert D Reinstatement Box Culver D Reinstatement
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11-BCO-2333 11-BCO-2370 11-BCO-2372 11-BCO-2374 11-BCO-2376 11-BCO-2378 11-BCO-2380 11-BCO-2380a 11-BCO-2380a1 11-BCO-2380a2	Box Culvert O Reinstatement - Bay 13 Demolish Remaning Part Box Culvert O Reinstatement - Bay 13 Excavate soil Box Culvert O Reinstatement - Bay 13 Erection of Strut and Waler (1 layer,4 struts) Box Culvert O Reinstatement - Bay 13 Grade 200 Rockfill to Formation Level (Remaining Portion) Box Culvert O Reinstatement - Bay 13 Place Blinding Layer Box Culvert O Reinstatement - Bay 13 Install Precast Units (1.35m per unit of 30T, 22 units @4 units/day) Box Culvert O Reinstatement - Bay 13 Construction of Top Sab formwork Box Culvert O Reinstatement - Bay 13 Construction of Top Sab Rebar	6 5 7 1 5 1 1	0 0 7 1 5 1 1	01-Jun-18 A 01-Jun-18 A 16-Jun-18 A 27-Jun-18 10-Jul-18 14-Jul-18 14-Jul-18	15-Jun-18 A 11-Jun-18 A 27-Jun-18 28-Jun-18 14-Jul-18 16-Jul-18 16-Jul-18	-699 -709 -709 -709	HK Working Day HK Working Day HK Working Day HK Working Day HK Working Day HK Working Day	Box Culvert O Reinstatement - Bay 13 Excavate Box Culvert O Reinstatement - Bay 13 Election of Str Box Culvert D Reinstatement Box Culvert D Reinstatement Box Culver D Reinstatement
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S11-BCO-2332 S11-BCO-2333 S11-BCO-2370 S11-BCO-2372 S11-BCO-2374 S11-BCO-2376 S11-BCO-2376 S11-BCO-2380 S11-BCO-2380a S11-BCO-2380a S11-BCO-2381 S11-BCO-2382 ox Culvert O Cons	Box Culvert O Reinstatement - Bay 13 Demolish Remaning Part Box Culvert O Reinstatement - Bay 13 Excavate soil Box Culvert O Reinstatement - Bay 13 Erection of Strut and Waler (1 layer,4 struts) Box Culvert O Reinstatement - Bay 13 Grade 200 Rockfill to Formation Level (Remaining Portion) Box Culvert O Reinstatement - Bay 13 Grade 200 Rockfill to Formation Level (Remaining Portion) Box Culvert O Reinstatement - Bay 13 Place Blinding Layer Box Culvert O Reinstatement - Bay 13 Install Precast Units (1.35m per unit of 30T, 22 units @4 units/day) Box Culvert O Reinstatement - Bay 13 Construction of Top Sab form work Box Culvert O Reinstatement - Bay 13 Construction of Top Sab Rebar Box Culvert O Reinstatement - Bay 13 Construction of Top Sab Concreting Box Culvert O Reinstatement - Bay 14 Backfill to Ground Level (4m Height, 2 Layer/day 300 thk)	6 5 7 1 5 1 1 1 1 8	0 0 7 1 5 1 1 1 1 8	01-Jun-18 A 01-Jun-18 A 16-Jun-18 A 27-Jun-18 10-Jul-18 14-Jul-18 14-Jul-18 16-Jul-18 17-Jul-18	15-Jun-18 A 11-Jun-18 A 27-Jun-18 28-Jun-18 14-Jul-18 16-Jul-18 16-Jul-18 17-Jul-18 25-Jul-18	-699 -709 -709 -709 -709 -709 -270	HK Working Day HK Working Day	Box Culvert O Reinstatement - Bay 13 Excavate Box Culvert O Reinstatement - Bay 13 Election of Str Box Culvert O Reinstatement - Box Culvert O Reinstatement Box Culvert O Reinstatement Box Culvert O Reinstatement Box Culvert O Reinstatement
S11-BCO-2333 S11-BCO-2370 S11-BCO-2372 S11-BCO-2374 S11-BCO-2376 S11-BCO-2378 S11-BCO-2380 S11-BCO-2380a	Box Culvert O Reinstatement - Bay 13 Demolish Remaning Part Box Culvert O Reinstatement - Bay 13 Excavate soil Box Culvert O Reinstatement - Bay 13 Erection of Strut and Waler (1 layer,4 struts) Box Culvert O Reinstatement - Bay 13 Grade 200 Rockfill to Formation Level (Remaining Portion) Box Culvert O Reinstatement - Bay 13 Grade 200 Rockfill to Formation Level (Remaining Portion) Box Culvert O Reinstatement - Bay 13 Place Blinding Layer Box Culvert O Reinstatement - Bay 13 Install Precast Units (1.35m per unit of 30T, 22 units @4 units/day) Box Culvert O Reinstatement - Bay 13 Install Precast Units (1.35m per unit of 30T, 22 units @4 units/day) Box Culvert O Reinstatement - Bay 13 Construction of Top Slab form work Box Culvert O Reinstatement - Bay 13 Construction of Top Slab Rebar Box Culvert O Reinstatement - Bay 13 Construction of Top Slab Concreting Box Culvert O Reinstatement - Bay 14 Backfill to Ground Level (4m Height, 2 Layer/day 300 thk) Box Culvert O Reinstatement - Bay 13 Backfill to Ground Level (4m Height, 2 Layer/day 300 thk)	6 5 7 1 5 1 1 1 1 8	0 0 7 1 5 1 1 1 1 8	01-Jun-18 A 01-Jun-18 A 16-Jun-18 A 27-Jun-18 10-Jul-18 14-Jul-18 14-Jul-18 16-Jul-18 17-Jul-18	15-Jun-18 A 11-Jun-18 A 27-Jun-18 28-Jun-18 14-Jul-18 16-Jul-18 16-Jul-18 17-Jul-18 25-Jul-18	-699 -709 -709 -709 -709 -709 -270	HK Working Day HK Working Day	Box Culvert O Reinstatement - Bay 13 Excavate
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Milestone
Critical Milestones

CurrentWorks

Critical Works Remaining Level of Effort 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 (data date 20-Jun-18)



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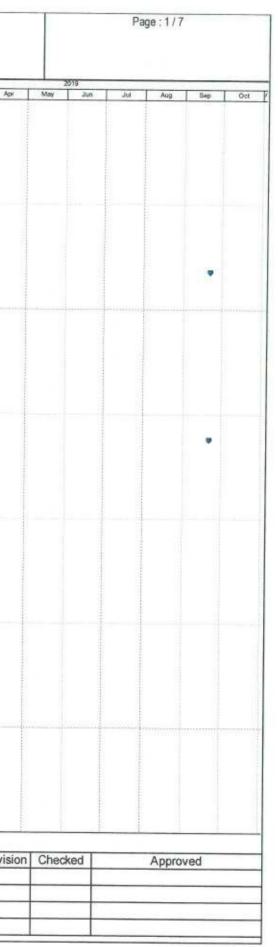
tivity ID	Activity Name	Ori	Rem	Scheduled	Scheduled /	Total	Calendar										18
		Dur	Dur	/Actual Start	Actual Finish	Float					Jur	ne				July	_
S11-BCO-2420	Bay 12 - Grade 200 Rockfill to Formation Level under water	13	13	14-Sep-18	29-Sep-18	-376	HK Working Day	20	27	03	10	1/	24	01	08	15	-
Reinstatement for							· · · · · · · · · · · · · · · · · · ·				1		1	1	8 8 8	2 2 2	ł
S11-HH-5010	Reinstatement for the Traffic Diversion at Hung Hing Road Flyover [Summary]	144	0	08-Mar-17 A	22-Oct-17 A		HK Working Day							1	1	1	-
S11-HH-5048	Rectification of road defects identified at Convention Avenue	10	10	20-Jun-18	29-Jun-18	-207	HK Working Day							Rectific	cation of ro	ad defec	side
Wan Shing Street	t Sewerage Works				1				-								
S11-SW-1080	Implement TTA Stage 2	1	54	19-Jun-17 A	15-Aug-18	-314	HK Working Day										÷
S11-SW-1083	Trench excavation and shoring installation at Wan Shiing Street	12	15	31-Aug-17 A	06-Jul-18	213	HK Working Day								Trench	excavatio	1 an
S11-SW-1084	Divert existing DN500 and removal of D500 pvc pipe at the Wan Shiing Street	6	6	20-Jul-18	27-Jul-18	213	HK Working Day		1	-					÷	_ _	_
S11-SW-1086	Construction of manhole MH4.17 (Type I) including DN600 inlet	16	37	22-Feb-18 A	01-Aug-18	-300	HK Working Day										÷
S11-SW-1087	Laying DN750 sewer pipes and connection to MH4.19	27	40	22-Feb-18 A	01-Aug-18	-314	HK Working Day					_					÷
S11-SW-1088	Laying DN600 sewer pipes (near MH4.17 with 8m length approx.)	3	3	28-Jul-18	01-Aug-18	-314	HK Working Day									1	-
S11-SW-1089	Backfill (300mm/layer), removal sheet piles and reinstate the pavement	14	14	01-Aug-18	15-Aug-18	-314	HK Working Day		-					- 	* 2 2	1	
S11-SW-1090	Implement TTA Stage 3	1	1	16-Aug-18	16-Aug-18	-314	HK Working Day				1	1		1	1 1 1	1	1
S11-SW-1091	Trench excavation and shoring installation at Wan Shiing Street	10	10	16-Aug-18	27-Aug-18	-314	HK Working Day		-				1	1	1	1	
S11-SW-1092	Laying DN600 clay pipes in the middle of MH4.15 & MH4.17 (3m approx.)	3	3	27-Aug-18	30-Aug-18	-314	HK Working Day		-				-	1	1	1 1 1	
S11-SW-1093	Check the status of existing DN600 clay pipes and submit a proposal to the ER for testing	1	1	29-Aug-18	30-Aug-18	-314	HK Working Day	1									
S11-SW-1094	Carry out air test & CCTV to DN600 clay pipes	1	1	30-Aug-18	31-Aug-18	-314	HK Working Day							1	1	1	
S11-SW-1094a	Carry out air test & CCTV to DN750 pipes	1	1	31-Aug-18	01-Sep-18	-314	HK Working Day					ł		1 1 1	1	1 1 1	-
S11-SW-1095	Backfill the trench (300mm/layer) and remove sheet piles	7	7	01-Sep-18	08-Sep-18	-314	HK Working Day		1					1			1
S11-SW-1096	Reinstate the pavement	5	5	08-Sep-18	13-Sep-18	-314	HK Working Day										
S11-SW-1097	Implement TTA Stage 4	1	1	13-Sep-18	14-Sep-18	-314	HK Working Day										1
S11-SW-1098	Trench excavation and shoring installation at Wan Shiing Street	10	10	14-Sep-18	26-Sep-18	-314	HK Working Day		÷	1	-			1		÷	

•	♦ Milestone			Date	Revision	Checked	Approved
♦	 Critical Milestones 						
	CurrentWorks	CHUN WO - CRGL	CEDD CONTRACT NO. HK/2009/02			+	
	Critical Works	JOINT VENTURE	WD II - Central Wanchai Bypass at Wan Chai East (Contract 2)			+	
	Remaining Level of Effort		3-MONTH ROLLING PROGRAMME (data date 20-Jun-18)				

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		tion at Wa	: 1					1	
	Divert exi	sting DN5	00 and	emoval of	D500	pvc	pipe at th	e Wan S	hiing S
	-Co	nstructior	of mar	hole MH4.	17 (Ty	pe l) including	DN600 i	nlet, C
	La	ying DN7	50 sewe	r pipes and	conr	necti	on to MH	4.19, Lay	ing DN
	-La	ying DN6	00 sewe	r pipes (ne	ar M	4.1	7 with 8m	length a	prox.)
				Backfill (300	mm/	aver), remova	sheet pi	es and
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Key Dates an Sections of W KD10840 KD10860 KD10880 KD11010 KD11020	Activity Norme Revised Works Programme Rev.12.0(DD 20 N d Milestone Dates orks Completion (Included Not Granted EOT Ent Completion of Section IIIA Completion of Section IV Completion of Section VI Completion of Section VII Completion of Section VII Completion of Section IX Completion of Section IX Completion of Section X Completion of Section X		017)	08-Sep-18* 30-Aug-18* 26-Sep-18* 14-Sep-18*	Complete Complete 0% 0%	Jan	Feb Mar	Арг	May	25 Jun	BII lut	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	to Con
Key Dates an Sections of W KD10840 KD10860 KD10880 KD11010 KD11020	d Milestone Dates oths Completion (Included Not Granted EOT Ent Completion of Section IIIA Completion of Section IV Completion of Section VII Completion of Section VIII Completion of Section IX Completion of Section IX	titlement of 0 0 0 0 0 0 0		08-Sep-18* 30-Aug-18* 26-Sep-18* 14-Sep-18*	0%								чњ		107	U.C.	Jan	160	- Mail	
Sections of W KD10840 KD10880 KD10880 KD11010 KD11020	Or his Completion (Included Not Granted EOT Ent Completion of Section IIIA Completion of Section IV Completion of Section VI Completion of Section VII Completion of Section VIII Completion of Section IX Completion of Section IX	0 0 0 0 0	The Contracto	08-Sep-18* 30-Aug-18* 26-Sep-18* 14-Sep-18*	0%															
KD10840 KD10860 KD10880 KD11010 KD11020	Completion of Section IIIA Completion of Section IV Completion of Section V Completion of Section VII Completion of Section VIII Completion of Section IX Completion of Section X	0 0 0 0 0	The Contracto	08-Sep-18* 30-Aug-18* 26-Sep-18* 14-Sep-18*	0%														110	
KD10860 KD10880 KD11010 KD11020	Complection of Section IV Completion of Section V Completion of Section VII Completion of Section VIII Completion of Section IX Completion of Section X	0 0 0 0		30-Aug-18* 26-Sep-18* 14-Sep-18*	0%															
KD10880 KD11010 KD11020	Completion of Section V. Completion of Section VII Completion of Section VIII Completion of Section IX Completion of Section X	0		26-Sep-18* 14-Sep-18*	0%			-					a.							
KD11010 KD11020	Completion of Section VII Completion of Section VIII Completion of Section IX Completion of Section X	0		14-Sep-18*			1	1												
KD11020	Completion of Section VIII Completion of Section IX Completion of Section X	0						-					ų					-	-	-
100.00.000000	Completion of Section IX Completion of Section X	0			0%							1						1		
1001000	Completion of Section X	054		21-Sep-18*	0%														1	
KD11040		0		21-Sep-19*	0%														1	
KD11060	ons of Works Completion			21-Sep-18*	0%6															
Planned Sect		the second second																		
KD10080	Planned Section IIIA Completion - Road A2,A4, A5	0		08-Sep-18	0%							1								
KD10100	Planned Section IV Completion - Slip Road 3	0		30-Aug-18	0%															-
KD10140	Planned Section V Completion - Remaining At-Grade Road	0		26-Sep-18	0%								-							
KD10280	Planned Section VII Completion - Remainder Works	0										1							1	
KD10300	Planned Section VIII Completion - Landscape Softwork			14-Sep-18	0%		_						•						L	
T Walkings		0		21-Sep-18	0%			1												
KD10320	Planned Section IX Completion - Establishment Works	0		21-Sep-19	0%															
KD10340	Planned Section X Completion - Tree Protection & Preservation	0		21-Sep-18	0%														f.	
Dredging and							Ĩ					1							-	
Marine Work	Construction																			-
Zone CRIII					100															-1
Seawall Const	ruction - Zone CRIII																			
Zone CRIII Se	awali- 2nd Stage																			
Seeward 2 & 1					22013														ŧ.	1
MAR21371	Zone CRIII - seawall 2 & 12 - Backfilling remaining portion (type A, geotextile and filter)	0	19-Jan-18 A	27-Jan-18 A	100%	-		1												
Zone D	(type v, georexine and must)		(FLEETIN)									-								
Seawall Const	ruction - Zone D																		Ě.	
Seawall 10 &	1																			
MAR20630	Zone D - Seawall 10 & 11: Install remaining seawall block	14	20-Feb-18*	05-Mar-18	0%	1.111														
MAR20650	Zone D - Seawall 10 & 11: Backfill Type A	7	06-Mar-18	12-Mar-18	0%															
MAR20570	Zone D - Seawall 10 & 11: Lay geotextile and filter	7	13-Mar-18	19-Mar-18	0%													*)*********		
Works for Ser	tion Completion	and the second second																		
Construction					<u></u>			1											Ě.	
	Road A2, A4 & A5		the latenter																Ê	
a for all the end of the							Ĩ													
Roadwork & C	tilities - Section 1 (L1806 - L1801)																		1	
Data Data	Current Milestone												÷ 1					Da	ite	Rev
Data Date: 20-Feb-18	Actual Work				Up	dated	Works	Prog	amm	e Re	v 12							20-Fel		12
	Critical Remaining Work						v.12 as					1								

Remaining Level of Effort



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N ID	Activity Name	Remaining Dur	Early Start	Early Finish	Activity % Complete	Jan F	eb Mar	Apr	May	Jun	2018 Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	2019	1			
SIIIA10279c	Sec III A - section 1 carriageway - sewerage pipe from M/H	0	02-Jan-18 A	03-Feb-18 A	100%				1.44			1.02	Sup		1454	Dar.	500	1.60	. mgi	744	may	Jun	Jul	Aug	Sep	Oct
SIIIA10293	BC to F8B (night time): construct sewerage pipe Sec III A - section 1 carriageway - sewerage pipe from M/H	6	05-Feb-18 A	26-Feb-18	0%																					
SIIIA10294	F8B - F8A (night time) Sec III A - section 1 carriageway - sewerage pipe from M/H	8	17-Jan-18 A	28-Feb-18	27.27%	-																				
SIIIA10295	F8A - F8 Sec III A - carriageway - works prrior TTA stage 5:	7	18-Jan-18 A	27-Feb-18	0%								1						-							
	excavation and duct laying of TCS5 and public lighting												1													
SIIIA10298	Sec III A - section 1 carriageway - works prrior TTA stage 5: road kerb	5	28-Feb-18	05-Mar-18	0%		-						1				12-2-2-1									
SIIIA10301	Sec III A - section 1 carriageway - works prrior TTA stage S: road formation	2	06-Mar-18	07-Mar-18	0%		1	-											-							
SIIIA10302	Sec III A - section 1 carriageway - works prrior TTA stage 5: laying asphalt	5	08-Mar-18	13-Mar-18	0%			-					1													
SIIIA10303	Sec III A - section 1 carriageway - works prrior TTA stage	3	14-Mar-18	16-Mar-18	0%			1																		
SIIIA10310	5: road marking & preparation works Sec III A - section 1 carriageway - TTA stage 5:	1	17-Mar-18	17-Mar-18	0%		1 R																			
SIIIA10310a	Implementation of TTA Stage 5 Sec III A - section 1 carriageway - TTA stage 5: remaining	12	19-Mar-18	04-Apr-18	0%		-	-													1000					
SIIIA10310b	sewerage pipe for M/H F8A - M/H F8 Sec III A - section 1 carriageway - TTA stage 5: remaining	18	06-Apr-18	26-Apr-18	0%			-					1							4		4			Muna	
	sewerage pipe for M/H F8A - M/H F8B	10	2012/02/02/02/02	Second Belleric																	3					
	Sec III A - section 1 carriageway - TTA stage 5: SR1 at-grade road- remove sheetpile at U-trough west	5	19-Mar-18	23-Mar-18	0%		-						1							-						
5IIIA10310d	Sec III A - section 1 carriageway - TTA stage 5: SR1 at-grade road -remove temp. road access bay 5 of SR1	21	24-Mar-18	21-Apr-18	0%		-						1													
SIIIA10310e	Sec III A - section 1 carriageway - TTA stage 5: SR1 at-grade road -construct upstand wall above Dwall	25	23-Apr-18	23-May-18	0%				-																	
SIIIA10310f	Sec III A - section 1 carriageway - TTA stage 5: SR1	14	24-May-18	08-Jun-18	0%					-																
SIIIA10310g	at-grade road - roadside barrier Sec III A - section 1 carriageway - TTA stage 5: SR1	7	09-Jun-18	16-Jun-18	0%			-	-	-										-	-					
SIIIA10310h	at-grade road - road formation Sec III A - section 1 carriageway - TTA stage 5: SR1	14	19-Jun-18	05-Jul-18	0%		1																			
SIIIA10312	at-grade road - laying asphalt with transition slab Sec III A - roadwork and utilities section 1 carriageway -	15	19-Mar-18	09-Apr-18	0%								-							1	1					
SIIIA10312a	Drainage works (L2202 - L2201) Sec III A - roadwork and utilities section 1 carriageway -				0%			-																		
	Drainage works (L1805 - L1801)	15	10-Apr-18	26-Apr-18	2.33		1	-																		
SIIIA10312b	Sec III A - roadwork and utilities section 1 carriageway - Drainage works (L1805-1807)	12	27-Apr-18	11-May-18	0%			1	-																	
SIIIA10313	Sec III A - roadwork and utilities section 1 carriageway - guly pipe (L1807 - L1801)	14	07-May-18	23-May-18	0%								-				1-1-1-1-1-1-1			1				1 + + + + + + + + + + + + + + + + + + +		
SIIIA10320	Sec III A - roadwork and utilities section 1 carriageway - fresh watermain	7	24-May-18	31-May-18	0%					-										1	1					
SIIIA10340	Sec III A - roadwork and utilities section 1 carriageway -	14	01-Jun-18	16-Jun-18	0%					1000										1						
SIIIA10360	utilities: HEC (90m) along carriageway Sec III A - roadwork and utilities section 1 carriageway -	14	19-Jun-18	05-Jul-18	0%			1												1						
SIIIA10400	road kerb & formation Sec III A - roadwork and utilities section 1 carriageway -	7	06-Jul-18	13-Jul-18	0%				8		-		i.													
SIIIA10420	black top Sec III A - Implementation of TTA Stage 7P (Closure of	1	14-Jul-18	14-Jul-18	0%	-		ļ	1		1									-	1					
	U-turn at Expo Drive)				20				1		1															
SIIIA10440	Sec III A - roadwork and utilities section 1 carriageway : breaking existing asphalt	10	16-Jul-18	26-Jul-18	0%						-									1						
SIIIA10460	Sec III A - roadwork and utilities section 1 carriageway: road kerb and formation	14	27-Jul-18	11-Aug-18	0%						1						1100			1	1					
SIIIA10480	Sec III A - roadwork and utilities section 1 carriageway : black top	10	13-Aug-18	23-Aug-18	0%				-											1						
SIIIA10500	Sec III A - roadwork and utilities section 1 carriageway : roadmarking and road furniture	14	24-Aug-18	08-Sep-18	0%				1												1					
Roadwork &	Utilities - Section 2 (L1810 - L1807)							1	1		1	E	1	1						1	ŧ	-		1111 m		199994
SIIIA12590	Sec III A - roadwork and utilities section 2 carriageway -	0	20-Jan-18 A	27-Jan-18 A	100%	-		0					8													
Roadwork &	black top Utilities - Section 3 (L1808 - L1102)								1																	
SIIIA12770	Sec III A - roadwork and utilities section 3 carriageway -	0	20-Jan-18 A	07-Feb-18 A	100%			1					1							2010						
	utilities: HEC ducting (60m) & crossroad duct (PCCW & HGC)							1	-											1	11111					
SIIIA12790	Sec III A - roadwork and utilities section 3 carriageway - road kerb & formation	17	08-Feb-18 A	10-Mar-18	0%			1	3		1									1	1					
SIIIA12810	Sec III A - roadwork and utilities section 3 carriageway - black top	7	12-Mar-18	19-Mar-18	0%		-													-		-				
Roadwork &	Utilities - Section 6 (L1102 - L1411)							1	-																	
SIIIA13399	Sec III A - roadwork and utilities section 6 carriageway -	0	12-Jan-18 A	26-Jan-18 A	100%	-		11001																		
SIIIA13444	gully pipe (L1101 -L1102) Sec III A - roadwork and utities section 6 carriageway -	0	27-Jan-18 A	03-Feb-18 A	100%	-		10000												11.0						
SIIIA13445	watermain (road crossing) Sec III A - roadwork and utilities section 6 carriageway -	13	05-Feb-18 A	06-Mar-18	0%		1														1					
	ublities: crossed duct(HEC , HGC, PCCW)	575			-			1	3		-	1	1	1						\$	1					

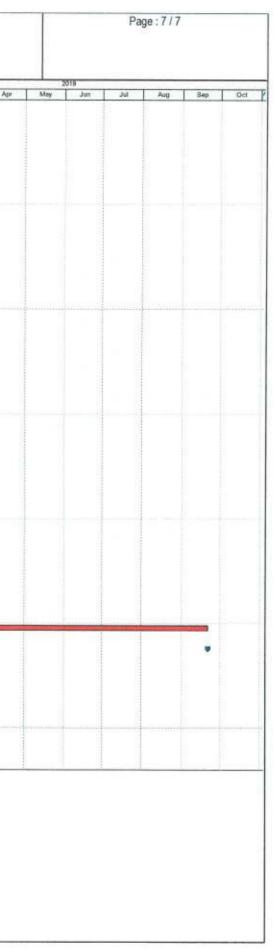
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γ1D.	Activity Name	Remaining Dur	Early Start	Early Finish	Activity % Complete	Jan	Feb	Mar	Apr	May	2 Jun	Jul	Aug	Sep	Oct	Nov	Dec	line	L Ros L	10.0	1 10	2015					
SIIIA13450	Sec III A - roadwork and utilities section 6 carriageway - road kerb & formation	18	07-Mar-18	27-Mar-18	0%		T		3				ring	oup	-	- Theat	0.00	Jan	Peb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
SIIIA13470	Sec III A - roadwork and utilities section 6 carriageway -	7	28-Mar-18	09-Apr-18	0%			1	-																		
SIIIA13570	black top Achievement of Section IIIA of the Works	0		08-Sep-18	0%									ø													
Section V - Re	emaining At-Grade Road & Road P2		-																								
Roadwork &	Utilities									1																	
Section 1 (L1	504 - L1900)				_																						
SV12456	Sec V-Roadwork & Utilities Section 1 - implementation of	0	20-Feb-18*	20-Feb-18	0%			1	1	1																	
SV12460	TTA stage SE (closure of slow lane at northbound of Expo Sec V - Roadwork & Utilities Section 1 - drinage works	15	20-Feb-18	08-Mar-18	0%			1	1																		
	(L1902 - L1900)				1000														1								
SV12462	Sec V - Roadwork & Utilities Section 1 - gully pipe (L1902 - L1900)	6	09-Mar-18	15-Mar-18	0%			-																			
SV12464	Sec V - Roadwork & Utilities Section 1 - temp. reinstatement to match with existing Expo Drive	14	16-Mar-18	04-Apr-18	0%																						
SV12466	Sec V - Section 1 - Modification to 2nd stage ITA (V.O. 50) : closure of northbound and maintain one lane at southbound	1	14-Jul-18	14-Jul-18	0%							'												1			
SV12468	Sec V - Roadwork & Utilities Section 1 Carriageway - breaking existing asphalt	7	16-Jul-18	23-Jul-18	0%			ł	1			-															
5V12490	Sec V - Roadwork & Utilities Section 1 Carriageway - Road kerb & formation	10	24-Jul-18	03-Aug-18	0%							-							1								
5V12520	Sec V - Roadwork & Utilities Section 1 Carriageway - Black top	7	04-Aug-18	11-Aug-18	0%				1				-														
SV12522	Sec V - Section 1 - Implementation of TTA for road closure	3	13-Aug-18	15-Aug-18	0%			Î					8											NO.			
SV12524	of northbound and southbound of Expo Drive Sec V - Section 1 - Northbound & Southbound of Expo Drive :	14	16-Aug-18	31-Aug-18	0%				-																		
SV12526	breaking asphalt Sec V - Section 1 - Northbound & Southbound of Expo Drive :	14	01-Sep-18	17-Sep-18	0%																						
SV12528	road kerb & formation Sec V - Section 1 - Northbound & Southbound of Expo Drive :	7	18-Sep-18	26-Sep-18	0%			1						-									100				
SV12570	black top Sec V - Roadwork & Utilities Section 1 footpath -	12	29-Dec-17 A	05-Mar-18	60%			-															-				
SV12580	utilities:TCSS Sec V - Roadwork & Utilities Section 1 footpath - paving	29	06-Mar-18	12-Apr-18	0%			-	-																		
	block 1510 - L1504)		001101.10	AL 194 10					1														_				
SV12624	Sec V - Roadwork & Utilities Section 1 Carriageway - road kerb & formation	0	04-Jan-18 A	30-Jan-18 A	100%																						
SV12626	Sec V - Roadwork & Utilities Section 1 Carriageway - black top	13	31-Jan-18 A	06-Mar-18	0%					-																	
SV12692	Sec V - Roadwork & Utilities Section 2 footpath - U channel	11	17-Jan-18 A	03-Mar-18	21.43%	-		•	-																		
SV12695	Sec V - Roadwork & Utilities Section 2 footpath - Watermain	13	05-Mar-18	19-Mar-18	0%			-																			
SV12700	Sec V - Roadwork & Utilities Section 2 footpath - utilities: TCSS	16	20-Mar-18	11-Apr-18	0%			-	-																		
SV12740	Sec V - Roadwork & Utilities Section 2 footpath - paving block	18	12-Apr-18	03-May-18	0%				-	•																	
Section 3 (C	ulvert L - L1510)							1																100			
SIV12860	Sec V - Roadwork & Utilities Section 3 footpath - Utilities:	30	16-Jan-18 A	26-Mar-18	11.76%	-		-	i l															-			
SIV12880	TCSS, HGC, PCCW) Sec V - Roadwork & Utilities Section 3 footpath - Paving	21	27-Mar-18	24-Apr-18	0%				\rightarrow																		
Section 4 (K)	block L106 - Culvert L)				100			1																			man
SIV12282	Sec V - Roadwork & Utilities Section 4 Carriageway -	10	20-Feb-18	02-Mar-18	0%			-																			
SIV12300	Drainage Works (L1311 - Culvert L, L1201 - Culvert L) Sec V - Roadwork & Utilities Section 4 Carriageway - Gully	7	03-Mar-18	10-Mar-18	0%			-															1	1000			
STV12302	pipe (L1301 - Culvert L, L1201 - Culvert L) Sec V - Roadwork & Utilities Section 4 Carriageway -	6			10.82873			_																			
	watermain	0	12-Mar-18	17-Mar-18	0%			1.00																			
STV12305	Sec V - Roadwork & Utilities Section 4 Carriageway - utilities : cross road duct		19-Mar-18	26-Mar-18	0%			-	-																		
SIV12310	Sec V - Roadwork & Utilities Section 4 Carriageway - Road kerb & formation : between culvert K and culvert L	15	27-Mar-18	17-Apr-18	0%																						
SIV12320	Sec V - Roadwork & Utilities Section 4 Carriageway - Black top : between culvert K and culvert L	10	18-Apr-18	28-Apr-18	0%				-	E.														-			
SIV12340	Sec V - Roadwork & Utilities Section 4 Carriageway - Black top : at west of culvert K	7	20-Feb-18	27-Feb-18	0%			E	1											-							
SIV12422	Sec V - Roadwork & Utilities Section 4 footpath - Utilities : TCSS	20	20-Feb-18	14-Mar-18	0%		F																				
SIV12440	Sec V - Roadwork & Utilities Section 4 footpath - Utilities : HGC & PCCW	8	15-Mar-18	23-Mar-18	0%																						

								с		Wan	D Cor Chai I an Ch	Develo	opmei	nt Ph	ase II		st							Pa	ge : 4 / 7		
N ID	Activity Name	Remaining Dur	Early Start	Early Finish	Activity % Complete	Jan	Feb	Mar	Apr	May		BHC Iul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	2019 Jun	UL.	Aug. 1	Sep	0 oct
SIV12460	Sec V - Roadwork & Utilities Section 4 footpath - Paving	22	24-Mar-18	23-Apr-18	0%		- 45	Contraction of the second		may	2141	24	ny	Seb	U.L.	Hur	040	0.000	res	TAL BU	1 044	anay	240	-70	Aug	sep	001
SV10300	block Achievement of Section V of the Works	0		26-Sep-18	0%																						
Section IV - S	lin Road 3				and the second			1																			
Roadwork &								1																			
Section 1 (L1	6608 - L1601)					1																					
SIV11747	Sec IV - sign gantry DS20 & DS21 footing (type 2): excavation & ELS	4	30-Dec-17 A	23-Feb-18	80.95%				1										1	5							
SIV11748	Sec IV - sign gantry DS20 & DS21 footing (type 2): footing	21	24-Feb-18	20-Mar-18	0%																-	1					
SIV11749	structure Sec IV - sign gantry DS20 & DS21 footing (type 2): removal	10	21-Mar-18	04-Apr-18	0%			-	6 I																		
SIV11751	of ELS and backfilling Sec IV - sign gantry DS21 footing (type 3): excavation	5	26-Mar-18	03-Apr-18	0%			-	1												1						
SIV11752	Sec IV - sign gantry DS21 footing (type 3): footing structure	13	04-Apr-18	19-Apr-18	0%			1 1	-												1	1					
			2024/09/10/2025	00-00000000	111000			Į					-		į						Į				*****		
SIV11753	Sec IV - sign gantry DS20: install steel frame of gantry D20	14	15-Aug-18	30-Aug-18	0%																	1					
STV11760	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Drainage Works (L1607 - L1601)	0	09-Dec-17 A	26-Jan-18 A	100%																1	-					
SIV11761	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Drainage Works (L1602 - L2005)	0	20-Jan-18 A	27-Jan-18 A	100%	-		1													1						
STV11762	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway -	17	29-Jan-18 A	10-Mar-18	0%			-													1						
STV11763	Drainage Works (L2103-L2101A) Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway -	21	20-Apr-18	15-May-18	0%				-												1						
SIV11764	Drainage Works (L2004 - L2005, L2101 - L2101A) Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway -	21	12-Mar-18	09-Apr-18	0%	-		-										-									
SIV11765	Gully pipe (L1607-L1601) Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway -	7	17-May-18	25-May-18	0%					1000																	
	Gully pipe (L2004)		59599991535								_										1						
SIV11780	Sec TV - Roadwork & Utilities at SR3 Section 1 Carriageway - Watermain	18	26-May-18	15-Jun-18	0%			-		100																	
SIV11800	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Utilities : TCSS crossroad duct	14	16-Jun-18	04-Jul-18	0%						8																
STV11830	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway - Road kerb & formation	24	05-Jul-18	01-Aug-18	0%							-									i.						
STV11840	Sec IV - Roadwork & Utilities at SR3 Section 1 Carriageway -	11	02-Aug-18	14-Aug-18	0%								-														
SIV11860	Black top Sec TV - Roadwork & Utilities at SR3 Section 1 footpath -	7	26-May-18	02-Jun-18	0%		1011		1												1						
SIV11880	Drainage Works: future connection pipes Sec IV - Roadwork & Utilities at SR3 Section 1 footpath -	7	04-Jun-18	11-Jun-18	0%						-																
SIV11900	watermain Sec IV - Roadwork & Utilities at SR3 Section 1 footpath -	39	12-Jun-18	28-Jul-18	0%						_																
	utilities: HEC & TCSS												_									1					
SIV11920	Sec IV - Roadwork & Utilities at SR3 Section 1 footpath - paving block	17	30-Jul-18	17-Aug-18	0%				1			3.									i .	Ĵ.					
Section 2 (L	2301 - L2103)																										
SIV11942	Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway - Gully pipe (L2301-L2013, L1608-L1609)	0	28-Dec-17 A	23-Jan-18 A	100%																						
SIV11960	Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway -	0	24-Jan-18 A	03-Feb-18 A	100%			_													1	-					
SIV12010	Watermain Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway -	20	05-Feb-18 A	14-Mar-18	0%		-														1						
SIV12020	Road kerb & formation Sec IV - Roadwork & Utilities at SR3 Section 2 Carriageway -	7	15-Mar-18	22-Mar-18	0%																1						
SIV12040	Black top Sec. IV - Roadwork & Utilities at SR3 Section 2 footpath -	7	07-Mar-18	14-Mar-18	0%			-				-31000 pr	8000 Marine								<u> </u>	÷					
	Drainage Works: future connection pipes								_ 1																		
SIV12060	Sec TV - Roadwork & Utilities at SR3 Section 2 footpath - utilities: TCSS	25	15-Mar-18	17-Apr-18	0%															8		1					
STV12080	Sec IV - Roadwork & Utilities at SR3 Section 2 footpath - paving block	21	18-Apr-18	12-May-18	0%			1													1	1					
Section 3 ()	4/H1.6 - L2301)							1													1						
STV12092	Sec TV - Roadwork & Utilities at SR3 Section 3 Carriageway -	38	28-Dec-17 A	09-Apr-18	35.59%	-		-	•												1						
SIV12096	Drainage Works (M/H1.7 - L2301) Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway	0	29-Nov-17 A	24-Jan-18 A	100%	-						Cr=1			<u></u>	Sectors 10		00315221				÷	+++++++++++++++++++++++++++++++++++++++	······			100400
SIV12102	M1.7-ML.6: construct manholes Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway -	0	25-Jan-18 A	08-Feb-18 A	100%			1	1																		
	M1.7-M1.6: demolish existing seawall Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway -	10		02-Mar-18	0%6																1						
SIV12103	M1.7-M1.6: ELS		09-Feb-18 A				T		_												1						
SIV12104	Sec TV - Roadwork & Utilities at SR3 Section 3 Carriageway - M1.7-M1.6: Construct manhole & pipes	30	03-Mar-18	11-Apr-18	0%			1																			
SIV12120	Sec TV - Roadwork & Utilities at SR3 Section 3 Carriageway Drainage Works (M1.6-C1.1-C1.2): ELS,construct MH and	28	12-Apr-18	15-May-18	0%			1	-										1		1						

					1-11-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-			Cer		D Cor Chai I an Ch	Develo	opme	nt Pha	ase II		st							Pa	ge : 5 / 7		
avity ID	Activity Name	Remaining Dur	Early Start	Early Finish	Activity % Complete	Jan	Feb	100 L		20	518						-	a constant	in the second		-	2019	15 1165			
SIV12121	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway -	6	16-May-18	23-May-18	0%	Jan	Peo	Mar Aş	e May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Dct
SIV12122	Drainage Works (M1.6-C1.1-C1.2): Backfilling & shift lane Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway -	5	24-May-18	29-May-18	0%														1	1						
	Drainage Works (M1.6-C1.1-C1.2): Construct MH C1.2	-	STATISTICS.		2013																					
SIV12140	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - Gully pipe (M/H 1.7 - L2301)	32	10-Apr-18	17-May-18	0%																					
STV12150	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway - Road kerb	14	18-May-18	04-Jun-18	0%												0	Č.								
SIV12155	Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway -	10	05-Jun-18	15-Jun-18	0%					-																
STV12160	formation Sec IV - Roadwork & Utilities at SR3 Section 3 Carriageway -	7	16-Jun-18	25-Jun-18	0%					-							-	-								
	Black top				6.12					_																
SIV12170	Sec IV - Roadwork & Utilities at SR3 Section 3 footpath - Utilities: TCSS	21	10-May-18	04-Jun-18	0%																					
SIV12180	Sec IV - Roadwork & Utilities at SR3 Section 3 footpath - U channel	10	05-Jun-18	15-Jun-18	0%					-																
SIV12220	Sec IV - Roadwork & Utilities at SR3 Section 3 footpath -	25	16-Jun-18	17-Jul-18	0%					-	-										1					
STV12222	Paving block Achievement of Section IV of the Works	0		30-Aug-18	0%																					
				So may to					E.																	
Section VII -	Remainder Works																			1		I.				
Road & Drain	nage Works (Culvert L - M/H1.7, Adjacent to SR3)					1	1											100	-							
SVII11600	Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway -	48	08-Jan-18 A	20-Apr-18	18.64%	-		-	3																	
SVII11620	Drainage Works (Culvert L -MH1.7) Sec TV - Roadwork & Utilities at SR3 Section 4 Carriageway :	3	21-Apr-18	24-Apr-18	0%														1							
	traffic diversion at Lung King Street		- constance	- and - march	151.0				-																	
SVII11640	Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway - Gully pipe (Culvert L -MH1.7)	27	25-Apr-18	28-May-18	0%													1	1	1	1					
SVII11650	Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway - TCSS duct	7	29-May-18	05-Jun-18	0%		1			-							-									
SVII11654	Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway -	14	06-Jun-18	22-Jun-18	0%					-									1							
SVII11660	road kerb & formation Sec IV - Roadwork & Utilities at SR3 Section 4 Carriageway -	6	23-Jun-18	29-Jun-18	0%														1	1						
	Black top				51651		1																i i			
SVII11680	Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - U channel	14	29-May-18	13-Jun-18	0%			-		-											-					
SVII11700	Sec IV - Roadwork & Utilities at SR3 Section 4 footpath - utilities: TCSS	14	14-Jun-18	30-Jun-18	0%																					
SVII11720	Sec IV - Roadwork & Utilities at SR3 Section 4 footpath -	14	03-Jul-18	18-Jul-18	0%		1			1										-	-					
Retaining Wa	paving block all RW5 Construction					1 1														10 III	Î.					
			20.11.10																-							
SVII10660	Sec VII - Retaining Wall RW5 (bay 1) - construct base slab and wall	22	20-Mar-18	18-Apr-18	0%														1	1	-					
SVII10680	Sec VII - Retaining wall RW5 (bay 2) - construct base slab and wall	22	19-Apr-18	15-May-18	0%																1					
SVII10800	Sec VII - Retaining wall RWS (bay 3) - construct base slab	22	20-Mar-18	18-Apr-18	0%														1							
SVII10820	and wall Sec VII - Retaining wall RW5 (bay 4) - construct base slab	22	19-Apr-18	15-May-18	0%																					
SVII10860	and wall Sec VII - Retaining wall RW5 - curing, removal formwork			101000000 C C C C C C C C C C C C C C C					-			1														
	President and an and a second president and a second second second second second second second second second s	0	16-May-18	25-May-18	0%		1		-									1								
Landing Step	s Construction						1					1											1			
Landing Step	os BSW13																					1 1				
SVII10900	Sec VII - Landing steps (8SW13) - install vertical fender /	15	15-May-18	01-Jun-18	0%		1																			
SVII10920	step fender Sec VII - Landing steps (BSW13) - install s.s. handrail /																	1	1							
	tactile / sign board / boilard	25	02-Jun-18	03-Jul-18	0%			1																		
Landing Step	35 B5W4																									
SVII10980	Sec VII - Landing steps (BSW4) - install vertical fender / step	15	20-Jun-18	07-Jul-18	0%		ŧ			E.c.																
SVII11000	fender Sec VII - Landing steps (BSW4) - Install s.s. handrail / tactile	25	09-Jul-18	06-Aug-18	0%						-															
Landing Step	/ sign board / bollard	1977	\$050750773	25701011.85	202																					
SVII11060	Sec VII - Landing steps (8SW5) - install vertical fender / step fender	15	25-Jul-18	10-Aug-18	0%						-						11111111	-								
SVII11080	Sec VII - Landing steps (BSW5) - install s.s. handrail / tactile	25	11-Aug-18	08-Sep-18	0%							-	-													
Landing Step	/ sign board / bollard as BSW9											-														
SVII11140		15	12.1	20 1						_		1											11111			
	Sec VII - Landing steps (BSW9) - install vertical fender / step	15	13-Jun-18	30-Jun-18	0%	1 3		1	1			1						8				1 3				
SVII11160	fender Sec VII - Landing steps (BSW9) - install s.s. handrail / tactile					1	1.00		3			÷.						8					- 2			

						CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West	Page:6/7				
wiy ID	Activity Name	Remaining Dur	Early Start	Early Finish	Activity % Complete	2018 Jain Feib Mai Apr Mey Jun Jul Aug Sep Oct Nov Dec Jan Peb Mar Apr May	2019	1			
Promenade	Seawall Parapet Construction & EVA					Jan Feb Mar Apr Mey Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May	Jun Jul Aug	Sep Oct			
SVII12000	Sec VII - Precast parapet	67	18-Nov-17 A	14-May-18	0%						
SVII12010	Sec VII - Zone CRIII - seawall parapet: Backfiling	14	20-Feb-18	07-Mar-18	0%						
SVII12120	Sec VII - Zone CRIII - seawall parapet: Construct mass	30	08-Mar-18	16-Apr-18	0%						
	concrete coping			****							
SVII12122	Sec VII - Zone CRIII - seawall parapet: reinforced concret coping	17	17-Apr-18	07-May-18	0%						
SVII12140	Sec VII - Zone CRIII - seawall parapet: construct seawall parapet	30	08-May-18	12-Jun-18	0%						
SVII12160	Sec VII - CRIII - EVA: watermain	14	13-Jun-18	29-Jun-18	0%						
SVII12180	Sec VII - CRIII - EVA: U-channel	14	30-Jun-18	17-Jul-18	0%						
SVII12200	Sec VII - CRIII - EVA: bituminous layer	5	18-Jul-18	23-Jul-18	0%						
SVI112220	Sec VII - CRIII - EVA: paving block	30	24-Jul-18	27-Aug-18	0%						
SVII13120	Sec VII - Zone A1, A2 & B - seawall parapet: Construct mass	14	28-Dec-17 A	07-Mar-18	68.18%						
SVII13122	concrete coping Sec VII - Zone A1, A2 & B - seawall parapet: reinforced	18	08-Mar-18	28-Mar-18	0%						
	concrete coping	30			0%						
SVII13140	Sec VII - Zone A1, A2 & B - seawall parapet: Construct seawall parapet		09-Apr-18	14-May-18	000						
SVII13160	Sec VII - Zone A1, A2 & B - EVA: watermain	14	15-May-18	31-May-18	0%						
SVII13180	Sec VII - Zone A1, A2 & B - EVA: U-channel	14	01-Jun-18	16-Jun-18	0%						
SVII13182	Sec VII - Zone A1, A2 & B - EVA: bituminous layer	5	19-Jun-18	23-Jun-18	0%						
SVII13184	Sec VII - Zone A1, A2 & B - EVA: paving block	30	25-Jun-18	30-Jul-18	0%						
SVII13200	Sec VII - Zone D - seawall parapet: Remove temporary	21	07-Mar-18	03-Apr-18	0%						
SVII13220	seawall block Sec VII - Zone D - seawall parapet: Construct mass concrete	30	04-Apr-18	10-May-18	0%						
SVII13222	Sec VII - Zone D - seawall parapet: reinforced concrete	18	11-May-18	01-Jun-18	0%						
SVII13240	coping Sec VII - Zone D - seawall parapet: Construct seawall	25	02-Jun-18	03-Jul-18	0%						
	parapet										
SVII13260	Sec VII - Zone D - EVA : watermain	14	04-Jul-18	19-Jul-18	0%						
SVII13280	Sec VII - Zone D - EVA : U-channnel	14	20-Jul-18	04-Aug-18	0%						
SVII13300	Sec VII - Zone D - EVA : bituminous layer	5	05-Aug-18	10-Aug-18	0%						
SVII13320	Sec VII - Zone D - EVA : paving block	30	11-Aug-18	14-Sep-18	0%						
Promenade	Footpath										
Settion 1					State Ha						
SVII10440	Sec VII - section 1 footpath - drainage works : connection	10	24-May-18	04-Jun-18	0%						
Constant Con	pipe & U -channel Sec VII - section 1 footpath - watermain	7	05-Jun-18	12-Jun-18	0%						
		7	13-Jun-18	21-Jun-18	0%						
1000 E. 10100 (1000)	Sec VII - section 1 footpath - lighting										
	Sec VII - section 1 footpath - paving block	21	22-Jun-18	17-Jul-18	0%						
Section 2					1.2						
SVII12610	Sec VII - section 2 footpath - drainage works : L2202 - L2203A	20	20-Feb-18	14-Mar-18	0%						
SVII12615	Sec VII - section 2 footpath - watermain	7	15-Mar-18	22-Mar-18	0%						
SVII12630	Sec VII - section 2 footpath - utilities: TCSS	21	23-Mar-18	20-Apr-18	0%						
SVII12670	Sec VII - section 2 footpath - paving block	30	21-Apr-18	28-May-18	0%						
Section 3											
	Sec VII - section 3 footpath - watermain	17	20-Feb-18	10-Mar-18	0%						
See 2 of A Content	e senserer, with the test test test test test										
SVII12870	PCCW)	40	12-Mar-18	02-May-18	0%						
SVII12875	Sec VII - 3 footpath - drainage works :U chanel	14	03-May-18	18-May-18	0%						

		-							Centr	Wan	Chai	ntract Devel hai By	opme	nt Ph	ase II		t				
y ID	Activity Name	Remaining Dur	Early Start	Early Finish	Activity % Complete	Jan	Feb	Mar	1 4.4	1 11-1		2018	1 4 4	1	1	1 10					-
SVII12890	Sec VII - section 3 footpath - paving block	30	19-May-18	25-Jun-18	0%	Jan	Feb	Mar	Apr	May	Jun	bL	Aug	Sep	Oct	Nov	Dec	net	Feb	Mar	Apr
					5.1.5																100
SVII13049	Sec VII - section 4 footpath - watermain	1	14-Nov-17 A	20-Feb-18	95.24%	-	-														
5VII13050	Sec VII - section 4 footpath - drainage works (L2203	21	21-Feb-18	16-Mar-18	0%		and a second														
SVII13055	-L2203A) Sec VII - section 4 footpath - utilities: HEC, TCSS, HEC &	49	17-Mar-18	18-May-18	0%			C==						1							
SVII13110	PCCW Sec VII - section 4 footpath - paving block	25	19-May-18	19-Jun-18	0%					-	-										-
Section 57					1000																
SVII13270		14	17-Mar-18	06-Apr-18	0%			-	-												
SVII13275	-L2204 Sec VII - section 5 footpath - watermain	14	07-Apr-18	23-Apr-18	0%																1
SVII13310	Sec VII - section 5 footpath - utilities: HEC, TCSS, HGC,	42	24-Apr-18	13-Jun-18	0%						-										
SVII13330	PCCW Sec VII - section 5 footpath - paving block	22	14-Jun-18	11-Jul-18	0%			-			-	-			84444						1
Section 9					172175			1													1
SVII13490	Sec VII - section 6 foolpath - drainage works(Culvert L -	14	20-Feb-18	07-Mar-18	0%			Tenina .	-												-
SVII13510	L2204) Sec VII - section 6 footpath - watermain	13	08-Mar-18	22-Mar-18	0%																
SVII13514	Sec VII - section 6 footpath - U channel	20	23-Mar-18	19-Apr-18	0%				-												
SVII13530	Sec VII - section 6 footpath - utilities: HEC, TCSS, HGC,	49	23-Mar-18	25-May-18	0%					-											
SVII13550	PCCW Sec III A - section 6 footpath - paving block	25	26-May-18	25-Jun-18	0%																
SVII19420		0		14-Sep-18	0%																
Section VIII -	Landscape Softworks				1000																
Soft Landsca																					
SVIII10040	Sec VIII - Trees Planting	141	04-May-18	21-Sep-18	0%	-	-			0		Kanadali		-							-
SVIII10060	Sec VIII - Shrubs Planting	141	04-May-18	21-Sep-18	0%						-										
SVIII10080	Achievement of Section VIII of the Works	0	0.1100 20	21-Sep-18	0%																
ulos sources.c.	Stablishment Works	1.00		#1 30p 13	0.10																
Soft Landsca					Correct of the																
SEX10020	Sec IX - Establishment Works	365	22-Sep-18	21-Sep-19	0%	-	1	1	1												1
SEX10020	Achievement of Section IX of the Works	0	xx-3ch-10	21-Sep-19	0%																1
Treesestory,	rotection & Preservation of Trees	v		21-36p-19	0.30																0.000
					IA.																1
ALCONGES.	Section X - Protection & Preservation of Trees																				1
SX10000	Achievement of Section X of the Works	0		21-Sep-18	0%		1					-									1
Soft Landsca																					1
SX10020	Sec X - Protection & Preservation of Trees	214	31-Jan-13 A	21-Sep-18	86.89%																



vity ID	Activity Name	Rem Dur	Start	Finish	2018 July August September
3MRP (July 2	2018 - Oct 2018)				15 22 29 05 12 19 26 02 09 16
<u></u>	2 & 2A OF THE WORKS	<u></u>			
05.3 - Box Cul					
Seawall Reinst	tatement Works Around Box Culvert T1				
0620-2135	Laying Geotextile for Temp Slope Protection	2	19-Jul-18 A	21-Jul-18	Laying Geotextile for Temp Slope Protection
0620-2140	Removal of temporary concrete blocks	10	23-Jul-18	02-Aug-18	Removal of temporary concrete blocks
0620-2150	Install new concrete blocks (19 Nos)	19	03-Aug-18	24-Aug-18	Install new concrete block
0620-2170	Backfill with Rockfill Type A (156 m3)	3	25-Aug-18	28-Aug-18	Backfill with Rockfill Ty
0620-2180	Geotextile and granular fill (135 m3)	2	29-Aug-18	30-Aug-18	Geotextile and granu
0620-2190	General fill to required level (320 m3)	2	31-Aug-18	01-Sep-18	General fill to requi
0620-2200	Construct Mass Concrete Copping (110 m3)	15	03-Sep-18	19-Sep-18	
06 - SECTION	3 OF THE WORKS			<u></u>	
06.3 - Admin B	Building				
Admin Buildin	g - Outstanding Works After Hanover to CC				
0630-2767	Drainage Downpipe near Abutment D12 (expecting Handover back from CC by 1 August 2018)	12	01-Aug-18*	14-Aug-18	Drainage Downpipe near Abutment
0630-2769	Abutment D12 Masking Wall	12	15-Aug-18	28-Aug-18	Abutment D12 Maskin
0630-2771	Removal of Temporary Noise Barrier	4	28-Aug-18	31-Aug-18	Removal of Tempor
0630-2777	Run-in at ADB carpark entrance & SR 13 (expecting Handover back from CC by 1 August) 2018	15	01-Aug-18*	17-Aug-18	Run-in at ADB carpark entrance
0630-2781	Oil Street Cul-de-sac Reinstatement (expecting Handover back from CC 1-August-2018)	15	01-Aug-18*	17-Aug-18	Oil Street Cul-de-sac Reinstaten
0630-2787	Traffic Signage at OI Street Cul-de-sac	12	18-Aug-18	31-Aug-18	Traffic Signage at O
10 - SECTION	X OF THE WORKS				
10.3 - Middle E	Bridge (Bridge F)				
10.3.2 - Bridge	Construction				
Bridge F1B2					
1032-3921.2	Bridge F1B2 - East Bound - Surfacing (2nd Layer)	1	30-Jul-18*	30-Jul-18	Bridge F1B2 - East Bourd - Surfacing (2nd Laye
1032-3921.3	Bridge F1B2 - East Bound - Surfacing (3rd Layer)	1	23-Aug-18	23-Aug-18	Bridge F1B2 - East Bound
1032-3925	Bridge F1B2 - East Bound - Marking	7	24-Aug-18*	31-Aug-18	Bridge F1B2 - East
Bridge F1B1					
1032-1822.2	Bridge F1B1 - West Bound - Surfacing (2nd Layer)	1	26-Jul-18	26-Jul-18	Bridge F1B1 - West Bound Surfacing (2nd Layer)
1032-1822.3	Bridge F1B1 - West Bound - Surfacing (3rd Layer)	1	10-Aug-18	10-Aug-18	- Bridge F1B1 - West Bound - Surfacing
1002 102210					

Remaining Level of Effort	Remaining Work	Contract HY/2009/19
Actual Level of Effort	Critical Remaining Work	
Actual Work	 ♦ Milestone 	Three Months Rolling Programme (20.July.2018 to 20.Oct.2018)

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ocks (19	Nos)								
Type A	(156 r	n3)							
anular fill	(135	m3)							
quired le	vel (3	20 m3))						
Constru	ict Ma	ss Co	ncrete	Copp	ing (1	10 m3)			
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king Wa	 								
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ice & SF	13 (e	xpecti	ng Ha	ndovei	r back	from C	C by	1 Aug	ust
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ity ID	Activity Name	Rem Dur	Start	Finish	2018 July August September
1000 1001			04.1		15 22 29 05 12 19 26 02 09 16
1032-1824	Bridge F1B1 - West Bound - Marking	7	24-Aug-18	31-Aug-18	Bridge F1B1 - West
All Middle Brid	dge F (Common)				
1032-4359.3	(Green Roof @ F2) - Down Pipe, Drainage system & Gutter	32	16-Jun-18 A	25-Aug-18	Green Roof @ F2) - Dov
1032-4360.2	(Green Roof @ F3 - Excl above live trafic) - Screeding	12	01-Aug-18*	14-Aug-18	(Green Roof @ F3 - Excl above live
1032-4360.3	(Green Roof @ F3 - Down Pipe, Drainage system & Gutter	27	01-Aug-18	31-Aug-18	Green Roof @ F3
Other Misc/Ad	ld'I Works				
1032-4378	WB - Removal of Temporary Post for Noise Enclosure (F1/F2/F3) (NW-after CC night works)	3	13-Jul-18 A	22-Jul-18	WB - Removal of Temporary Post for Noise Enclosure (
1032-4379	WB - Make Good Deck Surface to Receive Waterproofing after removal of post	7	14-Jul-18 A	27-Jul-18	WB - Make Good Deck Su face to Receive Waterp
1032-4380	WB - Waterproofing Works	14	20-Jul-18	04-Aug-18	WB - Waterproofing Works
1032-4381	WB - Lay Bitumen & Marking (Sunday/PH) (12/8, 19/8)	8	12-Aug-18*	19-Aug-18	WB - Lay Bitumen & Marking (
1032-4382	WB - Install Crash Cushion (2 months lead time) - will arrive on site by early Aug	2	13-Aug-18*	14-Aug-18	■ WB - Instal Crash Cushion (2 mon
1032-4383	Removal of Temp Lighting along Noise Enclosure/Barrier (after CC permanent lightswitch-on)	4	28-Jul-18	01-Aug-18	Removal of Temp Lighting along Noise Enclosu
1032-4385	Add'l Traffic Sign Replacement - DS101 & FADS101 (Night Work)	21	25-Jul-18	17-Aug-18	Add'l Traffic Sign Replacement -
1032-4387	Install standard traffic & directional sign required for road opening (NW - to be confirmed by AECOM)	39	23-Jul-18	30-Aug-18	Install standard traffi
Outstanding V	Norks				
1032-4400	Corbel Const & Replacement of Temporary Lighting to Permanent at F4-F5 (NW)	28	03-Sep-18	06-Oct-18	
1032-4420	Replacement of Temporary L3 Railing to Permanent Between Pier F8-F14 (NW)	28	17-Sep-18	22-Oct-18	
1032-4430	Install remaining standard traffic & directional sign (NW)	28	17-Sep-18	22-Oct-18	
1032-4440	Removal of Temporary JTI sign gantry at Tong Sui Slip Road (NW)	28	23-Oct-18	23-Nov-18	
1032-4480	Concrete Surround for TCSS Ducting at Existing IEC bridge 8 bays (NW)	25	23-Oct-18	20-Nov-18	
1032-4490	Cover Plate for TCSS / JTI Cable Tray Existing IEC bridge (NW)	14	02-Nov-18	17-Nov-18	
1032-4520	Maintenance walkway & Fall Arrest system at Green Roof	45	03-Sep-18	27-Oct-18	
1032-4530	Remedial Works to Marine Pile Caps	21	03-Sep-18	27-Sep-18	
10.6 - Tunnel A	pproach Ramp				
10.6.1 - Approa	nch Ramp (Excluding Portion IIB)				
Retaining Wal	Is & Trough Structure B,C & D				
1061-7100	Backfilling Works	10	15-Jun-18 A	31-Jul-18	Backfilling Works
1061-7120	ELS and Excavate to Founding Level & Waterproofing Trough B Structure (98 Sheet pile: 2/3 at Low Head Rm)	5	05-Jun-18 A	25-Jul-18	ELS and Excavate to Founding Level & Waterproofin
1061-7130	EJ installation - Trough B Structure	1	26-Jul-18	26-Jul-18	EJ installation - Trough B Structure

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maining Level of Effort Remaining Work

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Critical Remaining WorkMilestone

Contract HY/2009/19 Three Months Rolling Programme (20.July.2018 to 20.Oct.2018)

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- Dov	yn Pine	e, Drai	inade	sve	tem 8	Gu	tter			
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(F1/F	2/F3)	(NW-a	after C	CCr	night v	vork	s)			
proofi	ng afte	er rem	oval o	of po	st					
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Ac	tivity ID	Activity Name	Rem	Start	Finish	2018
			Dur			July August September 15 22 29 05 12 19 26 02 09 16
	1061-7140	Construct Trough Structure B Base Slab	11	27-Jul-18	08-Aug-18	Construct Trough Structure B Base Slab
	1061-7160	Construct Trough Structure B Side Walls	7	09-Aug-18	16-Aug-18	Construct Trough Structure B Sic
	1061-7180	Excavate to Founding Level & Waterproofing Trough C Structure	5	05-Jun-18 A	25-Jul-18	Excavate to Founding Level & Waterproofing Trough
	1061-7190	EJ installation - Trough C Structure	1	26-Jul-18	26-Jul-18	EJ installation Trough C Structure
	1061-7200	Construct Trough Structure C Base Slab (2nd Pour-east part)	5	27-Jul-18	01-Aug-18	Construct Trough Structure C Base Slab (2nd
	1061-7210	Construct Trough Structure C Side Walls (1st Pour-west part)	4	17-Jul-18 A	24-Jul-18	Construct Trough Structure C Side Walls (1st Pour-w
	1061-7220	Construct Trough Structure C Side Walls (2nd Pour-east part)	6	02-Aug-18	08-Aug-18	Construct Trough Structure C Side Walk
	1061-7230	MJ Cover installation - Trough A/B/C Structure	6	14-Aug-18	20-Aug-18	MJ Cover installation - Trough
	1061-7240	Road, Paving & Fencing Works at Trough B/C/D	13	17-Aug-18	31-Aug-18	Road, Paving & Fer
	1061-7250	Backfilling Works at Back side of Trough B & C	12	17-Aug-18	30-Aug-18	Backfilling Works at
	Landscape De	ck				
	1061-7464	Bay C5 > Upstand Wall at Bay C5 (east remaining - original end on 16 J 2018 but still waiting to AECOM deta is)	June 0	09-Apr-18 A	20-Jul-18	Bay C5 > Upstand Wall at Bay C5 (east remaining - origin
	1061-7477	Bay C1-C5 > Type 2 Railing Above Landscape Deck (North & South sid	le) 28	21-Jul-18	22-Aug-18	Bay G1-O5 > Type 2 Railing
	1061-7479	Bay C1-C5 > Type 2 Railing Above Landscape Deck (East & West side) 35	18-Oct-18	27-Nov-18	
	1061-7483	Bay C1-C5 > Waterproofing/Screeding/Root Barriers/Draining Composite/Subsoil+Soil Placing	84	12-Jul-18 A	29-Oct-18	
	Road & Other	Misc Works				·····
	1061-7530	WB (Bay C4/C5) - Median Profile Barrier + K1 Kerb	12	16-Jul-18 A	02-Aug-18	WB (Bay C4/C5) - Medan Profile Barrier + K1
	1061-7545.1	WB - Asphalt laying 1st Layer (C4) (assume 1week for Public Lab Test	Result 1	23-Jul-18	23-Jul-18	₩B - Asphalt laying 1st Layer (C4) (assume 1week for
	1061-7545.2	WB - Asphalt laying 2nd Layer (C4-C5)	1	31-Jul-18	31-Jul-18	₩B - Asphalt laying 2nc Layer (C4-C5)
	1061-7545.3	WB - Asphalt laying 3rd Layer (C4-C5)	1	07-Aug-18	07-Aug-18	WB - Asphalt laying 3rd Layer (C4-C5)
	1061-7545.4	WB - Asphalt laying 4th Layer (C4-C5)	1	14-Aug-18	14-Aug-18	₩B - Asphal laying 4th Layer (C4-
	1061-7545.5	WB - Asphalt laying 5th Layer (C4-C5)	1	21-Aug-18	21-Aug-18	WB Asphalt laying 5th Laye
	1061-7548	EB (Bay C4/C5) - Median Profile Barrier	12	19-Jul-18 A	02-Aug-18	EB (Bay C4/C5) - Median Profile Barrier
	1061-7550.1	EB - As phalt laying 1st Layer (C4) (assume 1week for Public Lab Test F	Result 1	23-Jul-18	23-Jul-18	EB - Asphalt laying 1s: Layer (C4) (assume 1week for
	1061-7550.2	EB - As phalt laying 2nd Layer (C4-C5)	1	28-Jul-18	28-Jul-18	►1_EB - As phalt laying 2nd Laver (Q4-C5)
	1061-7550.3	EB - As phalt laying 3rd Layer (C4-C5)	1	04-Aug-18	04-Aug-18	►I_EB - Asphalt laying 3rd Layer (C4-C5)
	1061-7550.4	EB - As phalt laying 4th Layer (C4-C5)	1	11-Aug-18	11-Aug-18	►1 EB - As phalt laying 4th Layer (C4-C5)
	1061-7550.5	EB - As phalt laying 5th Layer (C4-C5)	1	18-Aug-18	18-Aug-18	EB - Asphalt laying 5th Layer (C
	1061-7557	Install ADS08A + Sign Facing	8	11-Jun-18 A	28-Jul-18	Install ADS08A + Sign Facing
	1061-7558	Install GT2 + Sign Facing	8	14-May-18 A	28-Jul-18	Install GT2 + Sign Facing
	1061-7600	Approach Ramp Final Road Surfacing & Marking (excl Portion IIB)	9	22-Aug-18	31-Aug-18	Approach Ramp Fir
	Remaining Leve Actual Level of E Actual Work		TI	nree Month		Contract HY/2009/19 Programme (20.July.2018 to 20.Oct.2018)

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vity ID	Activity Name	Rem	Start	Finish	July	2018 Ily August September October November
		Dur				
1061-7610	Bay C4-C5 > Noise Panel	19	24-Jul-18*	14-Aug-18		Bay C4-C5 > Noise Panel
1061-7620	Bay C2-C3 > Noise Panel	14	13-Jul-18 A	04-Aug-18		Bay C2-C3 > Noise Panel
1061-7630	Bay C1-C5 > Railing Installations	26	01-Aug-18	30-Aug-18	-	Bay C1-C5 > Railing Installations
10.6.2 - Appro	ach Ramp (Within Portion IIB)					
Landscape D	leck					
1062-1274	Bay C1 > Staircase & Ramp No. 1	17	13-Aug-18*	31-Aug-18		Bay C1 > Staircase & Ramp No. 1
Road Works						
1062-1276	Re-instatement of De-watering Well	8	17-Jul-18 A	28-Jul-18		Re-instatement of De-watering Well
1062-1277	Re-instatement of Temporary Sump Pit	3	28-Jul-18	31-Jul-18	-	Re-instatement of Temporary Sump Pit
1062-1278	Asphalt laying 1st Layer (C1-C3)	4	01-Aug-18	04-Aug-18		Asphalt laying 1st Layer (C1-C3)
1062-1280	Precast Cover for Cable Trough & TCSS Draw Pits	20	09-Jul-18 A	11-Aug-18	_	Precast Cover for Cable Trough & TCSS Draw Pits
1062-1300	Road Drainage & Downpipe (within Portion IIB)	10	16-Jul-18 A	31-Jul-18		Road Drainage & Dowrppe (within Portion IIB)
1062-1380	Road Surfacing & Marking (within Portion IIB) (after CC installation works)	6	25-Aug-18*	31-Aug-18	_	► ■ ■ Road Surfacing & Marking (within Portion IIB) (after CC installation worl
					_	
1062-1385	Bay C1 > Noise Panel	9	27-Jul-18	06-Aug-18		Bay C1 > Noise Parlel
10.6.3 - Slip R	oad 13					
1062-1284	Slip Road 13 (South 2 - Adj to Car Park) Backfilling & Compaction	8	05-Jul-18 A	28-Jul-18		Slip Road 13 (South 2 - Acj lo Car Park) Backfilling & Compaction
1062-1287	Slip Road 13 (South 2 - Adj to Car Park) Road Kerb & Other Misc Works	13	30-Jul-18	13-Aug-18		Slip Road 13 South 2 - Adj to Car Park) Road Kerb & Other Misc Works
1062-1290	Slip Road 13 (West - Near Site Office) TCSS, Draw Pits & other Civil Provision	5	07-Jun-18 A	25-Jul-18		Slip Road 13 (West - Near Ste Office) TCSS, Draw Pits & other Civil Provision
1062-1291	Slip Road 13 (West - Near Site Office) Trimming Ex Surface & Drainage Works	14	07-Jun-18 A	04-Aug-18		Slip Road 13 (West - Near Site Office) Trimming Ex Surface & Drainage Works
1062-1292	Slip Road 13 (West - Near Site Office) Backfilling & Compaction	10	30-Jul-18	09-Aug-18	_	SIp Road 13 (V/est - Near Site Office) Backfilling & Compaction
1062-1293	Slip Road 13 (West - Near Site Office) Road Kerb & Other Misc Works	6	10-Aug-18	16-Aug-18		Slip Road 3 (West - Near Site Office) Road Kerb & Other Misc Works
1062-1294	Slip Road 13 (North - Sea Side) Drainage & Other Undergroud Civil Provision Works	12	21-Jul-18	03-Aug-18	- L	Slip Road 13 (North Sea Side) Drainage & Other Undergroud Civil Provision Works
1062-1295	Slip Road 13 (North - Sea Side) Backfilling & Compaction	6	02-Aug-18	08-Aug-18	_	Slip Road 13 (North - Sea Side) Backfilling & Compaction
1062-1296	Slip Road 13 (North - Sea Side) Road Kerb & Other Misc Works	6	09-Aug-18	15-Aug-18	-	Slip Road 18 (North - Sea Side) Road Kerb & Other Misc Works
1062-1297	Slip Road Surfacing	5	17-Aug-18	22-Aug-18		Slip Road Surfacing
1062-1298	Road Marking, Fencing, Footpath Paver & Other Finishing Works	13	17-Aug-18	31-Aug-18	-	Road Marking, Fencing, Footpath Paver & Other Finishing Works
10.7 - Section	X - Miscellaneous Works					
10.7.1 - TTM S	tages					
1071-1740	TTM Stage 10 - TTM Enabling Works	1	01-Sep-18	01-Sep-18		TTM Stage 10 - TTM Enabling Works
1071-1760	TTM Stage 10 - Tunnel Commisioning	0	· ·	01-Sep-18		TM Stage 10 - Tunnel Commisioning
	eet/Watson Road (Portion III)			·		
Remaining Lev	vel of Effort Remaining Work					
Actual Level of						ptract HY/2009/19 gramme (20.July.2018 to 20.Oct.2018)

Inree Months Rolling Programme (20.July.2018 to 20.Oct.2018)

Dur Dur Dur August August September Color Newmehr 1072-1285 Pre-cast Clay Paving EVA to EVB (remaining paver to arrive on site by mid A Aug.) 32 10-May-18A 25-Aug-18 30-Aug-18 Pre-cast Clay Paving EVA to EVB (remaining paver to arrive on site by mid A Aug.) 1072-128 Read Peinstatement > Watson Road cul-de sac 36 2-May-18A 30-Aug-18 Pre-cast Clay Paving EVA to EVB (remaining paver to arrive on site by mid A Aug.) 1072-128 Read Peinstatement > Watson Road cul-de sac 36 2-May-18A 30-Aug-18 Pre-cast Clay Paving EVA to EVB (remaining paver to arrive on site by mid A Aug.) 1072-128 Read Peinstatement > Watson Road cul-de sac 36 2-May-18A 30-Aug-18 Pre-cast Clay Paving EVA to EVB (remaining paver to arrive on site by mid A aug.) 1072-128 Read Peinstatement > Watson Road cul-de sac 36 2-May-18A 30-Aug-18 Pre-cast Clay Paving EVA to EVB (remaining paver to arrive on site by mid A aug.) 110-2850 Road Marking at Hing Fat Slip Road (Night Work) 1 26-Aug-18 Pre-cast Clay Paving EVA to EVB (remaining paver to arrive on site by mid A aug.) Pre-cast Clay Paving EVA to EVB (remaining paver to arrive on site by mid A aug.) 11	Jur Jur Augurt Augurt Augurt Cotober November 1072-1285 Pre-cast Clay Paving EVA to EVB (remaining paver to arrive on sile by mid Augurt 32 10-May-18A 25-Aug-18 7 6 2 0 7 14 2 0.4 107 14 2 0.4 107 14 2 0.4 107 14 2 0.4 107 14 2 0.4 107 14 2 0.4 107 14 2 0.4 107 14 2 0.4 107 14 2 0.4 107 14 107 10 2 0.4 10 2 0.4 10 10 2 0.4 10 2 0.4 10 2 0.4 10 2 0.4 10 2 0.4 10 2 0.4 10 10 10 10 2 2 0.4 1 1 1 1 1 1 1 1<	y ID	Activity Name	Rem	Start	Finish					2018		
Installation Installation<	Image: Control of the contro				Ciuri						September		
AugiAu	Aug) Aug						15	5 22	29 05	12 19 2	26 02 09 16 23	30 07 14 21 2	8 04 11 18
1 - SECTION 11 OF THE WORKS 11.0 - Sportion XIIC 1110-2500 EB - Modification of Road Marking at Hing Fat Silp Road (Night Work) 1 26-Aug-18' 26-Aug-18' 11.1 - Portion XIIA - Stage 1 11 26-Aug-18' 29-Aug-18' EB - Modification of Road Marking at Hing Fat Silp Road (Night Work) 1110-2853 Road Public Lighting at Watson Road 15 13-Aug-18' 29-Aug-18' 1110-2857 Installation of Pillar Box for Bridge D & E 15 01-Aug-18' 17-Aug-18' 1110-2857 Installation of Pillar Box for Bridge D & E 15 01-Aug-18' 17-Aug-18' 1110-2859 Road Foncing / Street Furniture at Watson Road 12 18-Aug-18' 31-Aug-18' 1110-2859 Reinstatement of Footpath near FVMSH2 (currently occupied by China State & 15 15-Aug-18' 31-Aug-18' 1110-2899 Reinstatement of Footpath near FVMSH2 (currently occupied by China State & 15 15-Aug-18' 31-Aug-18' 1110-2309 Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 12d)(under discussion bet AECOM & TD) 31-Aug-18' 31-Aug-18' 110-302 Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 12d)(under discussion bet AECOM & TD) 31-Aug-18' 31-Aug-18'	I - SECTION XIIC 1.0 - Portion XIIC 110-2500 EB - Modification of Road Marking at Hing Fat Slip Road (Night Work) 1 26-Aug-18* 26-Aug-18* 1.1 - Portion XIIA - Stage 1 11 26-Aug-18* 29-Aug-18* 29-Aug-18* 1110-2853 Road Public Lighting at Watson Road 15 13-Aug-18* 29-Aug-18* 1110-2857 Installation of Pillar Box for Bridge D & E 15 01-Aug-18* 17-Aug-18 1110-2859 Road Fencing / Street Furniture at Watson Road 12 18-Aug-18 11-Aug-18 1110-2859 Road Fencing / Street Furniture at Watson Road 12 18-Aug-18 13-Aug-18 1110-2869 Reinstatement of Footpath near FVMSH2 (currently occupied by China State & 15 15-Aug-18* 31-Aug-18 110-2889 Reinstatement of Footpath near FVMSH2 (currently occupied by China State & 15 15-Aug-18 31-Aug-18 110-3020 Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 121(under discussion bit AECOM & TD) 31 31-Aug-18 110-3020 Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 121(under discussion bit AECOM & TD) 31 Aug-18 13 - Portion XIIA - Stage 3 - Preparation & works night before road opening<	1072-1285		32	10-May-18 A	25-Aug-18				F	re-cast Clay Paving EVA to	EVB (remaining paver to arriv	ve on site by mid Aug)
11.0 - Portion XIIO 1110-2500 EB - Modification of Road Marking at Hing Fat Slip Road (Night Work) 1 26-Aug-18' 26-Aug-18 11.1 - Portion XIIA - Stage 1 IIII - 280 Road Public Lighting at Watson Road Marking at Hing Fat Slip Road (Night Work) 1110-2853 Road Public Lighting at Watson Road 15 13-Aug-18' 29-Aug-18 1110-2853 Road Public Lighting at Watson Road 15 01-Aug-18' 17-Aug-18 1110-2859 Road Fencing / Street Furniture at Watson Road 12 18-Aug-18' 31-Aug-18' 1110-2859 Reinstatement of Footpath near FVMSH2 (currently occupied by China State & 15 15-Aug-18' 31-Aug-18' 1110-2898 Reinstatement of Footpath near FVMSH2 (currently occupied by China State & 15 15-Aug-18' 31-Aug-18' 110-2809 Miscellaneous Road Works at Portion XIIA(5 TTA - works only on Sun & PH; 12/(under discussion bet AECOM & TD) 31' 31-Aug-18' 110-3020 Miscellaneous Road Works at Portion XIIA(5 TTA - works only on Sun & PH; 12/(under discussion bet AECOM & TD) 37 20-Jul-18' 31-Aug-18' 110-3020 Miscellaneous Road Works at Portion XIIA(5 TTA - works only on Sun & PH; 12/(under discussion bet AECOM & TD) 37 20-Jul-18' 31-Aug-18'	1.0 - Partian XIIC 1110 - 2500 EB - Modification of Road Marking at Hing Fat Slip Road (Night Work) 1 26-Aug-18* 26-Aug-18 1.1 - Portion XIIA - Stage 1 IIII - 2653 Road Public Lighting at Watson Road 15 13-Aug-18* 29-Aug-18 1110 - 2857 Installation of Pillar Box for Bridge D & E 15 01-Aug-18* 29-Aug-18 1110 - 2857 Installation of Pillar Box for Bridge D & E 15 01-Aug-18* 17-Aug-18 1110 - 2859 Road Fencing / Street Furniture at Watson Road 12 18-Aug-18 31-Aug-18 1110 - 2859 Reinstatement of Footpath near FVMSH2, ADS16 and OHVD (Portion XIIA) Imstallation of Pillar Box for Bridge D & E Road Fencing / Street Furniture at Watson Road 1110 - 2869 Reinstatement of Footpath near FVMSH2 (currently occupied by China State & 15 15-Aug-18* 31-Aug-18 110 - 2020 Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 12d)(under discussion bet AECOM & TD) 31-Aug-18 31-Aug-18 110 - 2020 Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 12d)(under discussion bet AECOM & TD) 31 31-Aug-18 Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 12d)(under discussion bet AECOM & TD) 31-Aug-18 Miscellaneous Road	1072-1287	Road Reinstatement > Watson Road cul-de sac	36	22-May-18 A	30-Aug-18					Road Reinstatement > V	latson Road cul-de sac	
1110-2500 EB - Modification of Road Marking at Hing Fat Slip Road (Night Work) 1 26-Aug-18* 26-Aug-18 29-Aug-18 29-Aug-18 29-Aug-18 7 Pole Pole Pole Pole Pole Pole Pole Pole	110-2500 EB - Modification of Road Marking at Hing Fat Slip Road (Night Work) 1 26-Aug-18 Road Public Lighting at Watson Road 10 250-Aug-18 29-Aug-18 29-Aug-18 29-Aug-18 Road Public Lighting at Watson Road 15 13-Aug-18 29-Aug-18 17-Aug-18 Road Public Lighting at Watson Road 12 18-Aug-18 31-Aug-18 31-Aug-18 Road Public Lighting at Watson Road E Road Public Lighting at Watson Road 12 18-Aug-18 31-Aug-18 31-Aug-18 31-Aug-18 31-Aug-18 31-Aug-18 Road Public Lighting at Watson Road 8 15 15-Aug-18* 31-Aug-18 31-Aug-18 Aug-18	1 - SECTION	11 OF THE WORKS										
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1110-2853 Road Public Lighting at Watson Road 15 13-Aug-18* 29-Aug-18 Road Public Lighting at Watson Road 1110-2857 Installation of Pillar Box for Bridge D & E 15 01-Aug-18* 17-Aug-18 Installation of Pillar Box for Bridge D & E Road Public Lighting at Watson Road 1110-2859 Road Fencing / Street Furniture at Watson Road 12 18-Aug-18 31-Aug-18 Road Public Lighting at Watson Road 1110-2869 Reinstatement of Footpath near FVMSH2 (currently occupied by China State & 15 15-Aug-18* 31-Aug-18* Reinstatement of Footpath near FVMSH2 (currently occupied by China State & 15 15-Aug-18* 31-Aug-18* Reinstatement of Footpath near FVMSH2 (currently occupied by China State & 15 15-Aug-18* 31-Aug-18 Reinstatement of Footpath near FVMSH2 (currently occupied by China State & 15 15-Aug-18* 31-Aug-18* Reinstatement of Footpath near FVMSH2 (currently occupied by China State & 15 15-Aug-18* 31-Aug-18 Reinstatement of Footpath near FVMSH2 (currently occupied by China State & 15 15-Aug-18* 31-Aug-18 Reinstatement of Footpath near FVMSH2 (currently occupied by China State & 15 15-Aug-18* 31-Aug-18 Reinstatement of Footpath near FVMSH2 (currently occupied by China State & 15 16-Aug-18* 16-Aug-18* 16-Aug-18* 16-Aug-18* 16-Aug-18* 16-Aug-18* 16-Aug-1	1110-2853 Road Public Lighting at Watson Road 15 13-Aug-18* 29-Aug-18 Road Public Lighting at Watson Road 1110-2857 Installation of Pillar Box for Bridge D & E 15 01-Aug-18* 17-Aug-18 11-Aug-18* 17-Aug-18 11-Aug-18*	11.1 - Portion)	(IIA - Stage 1										
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Interview	1110-2859 Road Fencing / Street Furniture at Watson Road 12 18-Aug-18 31-Aug-18 11.4 - Footing and frame/pole for directional sign FVMSH2, ADS16 and OHVD (Portion XIIA) 1110-2989 Reinstatement of Footpath near FVMSH2 (currently occupied by China State & 15 15-Aug-18* 31-Aug-18 1.2 - Portion XIIA - Stage 2 - Along Gordon House - Cross road ducting at Hing Fat St (public hol) 1110-3020 Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 12d) (under discussion bet AECOM & TD) 37 20-Jul-18 31-Aug-18	1110-2853	Road Public Lighting at Watson Road	15	13-Aug-18*	29-Aug-18	_		E	F	Road Public Lighting at W	atson Road	
11.1.4 - Footing and frame/pole for directional sign FVMSH2, ADS16 and OHVD (Portion XIIA) 1110-2989 Reinstatement of Footpath near FVMSH2 (currently occupied by China State & 15 15 Aug-18* 31-Aug-18 11.2 - Portion XIIA - Stage 2 - Along Gordon House - Cross road ducting at Hing Fat St (public hol) Reinstatement of Footpath near FVMSH2 (currently occupied by China State & 15 37 20-Jul-18 31-Aug-18 Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 12d) (under discussion bet AECOM & TD) 37 20-Jul-18 31-Aug-18 Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 12d) (under discussion bet AECOM & TD) 37 20-Jul-18 31-Aug-18 Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 12d) (under discussion bet AECOM & TD) 37 20-Jul-18 31-Aug-18 Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 12d) (under discussion bet AECOM & TD) 37 20-Jul-18 31-Aug-18 Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 12d) (under discussion bet AECOM & TD) 37 20-Jul-18 31-Aug-18 Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 12d) (under discussion bet AECOM & TD) 37 20-Jul-18 31-Aug-18 Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun APH; 12d) (under discussion bet AECOM & TD) 37 20-Jul-18 31-Aug-18 Miscellaneous Road Works at Portion XIIA (5 TTA - works	11.1.4 - Footing and frame/pole for directional sign FVMSH2, ADS16 and OHVD (Portion XIIA) 1110-2989 Reinstatement of Footpath near FVMSH2 (currently occupied by China State & 15 15 15-Aug-18* 31-Aug-18 1.2 - Portion XIIA - Stage 2 - Along Gordon House - Cross road ducting at Hing Fa1St (public hol) Reinstatement of Footpath near FVMSH2 (currently occupied by China State & 15 37 20-Jul-18 31-Aug-18 110-3020 Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 12d)(under discussion bet AECOM & TD) 37 20-Jul-18 31-Aug-18 1.3 - Portion XIIA - Stage 3 - Preparation & works night before road opening 37 20-Jul-18 31-Aug-18	1110-2857	Installation of Pillar Box for Bridge D & E	15	01-Aug-18*	17-Aug-18				Installati	on of Pillar Box for Bridge D	& E	
1110-2989 Reinstatement of Footpath near FVMSH2 (currently occupied by China State & 15 15-Aug-18* 31-Aug-18 11.2 - Portion XIIA - Stage 2 - Along Gordon House - Cross road ducting at Hing Fat St (public hol) Reinstatement of Footpath near FVMSH2 (currently occupied by China State & 15 15-Aug-18* 11.0 - 3020 Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 12d) (under discussion bet AECOM & TD) 37 20-Jul-18 31-Aug-18 11.3 - Portion XIIA - Stage 3 - Preparation & works night before road opening 37 20-Jul-18 31-Aug-18 Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 12d) (under discussion bet AECOM & TD) 37 20-Jul-18 31-Aug-18 Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 12d) (under discussion bet AECOM & TD) 37 20-Jul-18 31-Aug-18 Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 12d) (under discussion bet AECOM & TD) 37 20-Jul-18 31-Aug-18 Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 12d) (under discussion bet AECOM & TD) 37 20-Jul-18 31-Aug-18 Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun APH; 12d) (Under discussion bet AECOM & TD) 37 20-Jul-18 31-Aug-18 Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun APH; 12d) (Under discussion bet AECOM & TD) 37 37 37 37	1110-2989 Reinstatement of Footpath near FVMSH2 (currently occupied by China State & 15 15-Aug-18* 31-Aug-18 1.2 - Portion XIIA - Stage 2 - Along Gordon House - Cross road ducting at Hing FatSt (public hol) Image: Construction of Pootpath near FVMSH2 (currently occupied by China State & 15 15-Aug-18* 1110-3020 Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 12d) (under discussion bet AECOM & TD) 37 20-Jul-18 31-Aug-18 1.3 - Portion XIIA - Stage 3 - Preparation & works night before road opening 37 20-Jul-18 31-Aug-18	1110-2859	Road Fencing / Street Furniture at Watson Road	12	18-Aug-18	31-Aug-18	1				Road Fencing / Street F	urniture at Watson Road	
Leigthton) 11.2 - Portion XIIA - Stage 2 - Along Gordon House - Cross road ducting at Hing Fat St (public hol) 1110-3020 Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 37 20-Jul-18 31-Aug-18 12d) (under discussion bet AECOM & TD) 11.3 - Portion XIIA - Stage 3 - Preparation & works night before road opening	Leigthton) 1.2 - Portion XIIA - Stage 2 - Along Gordon House - Cross road ducting at Hing Fat St (public hol) 1110-3020 Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 37 20-Jul-18 31-Aug-18 12d)(under discussion bet AECOM & TD) 1.3 - Portion XIIA - Stage 3 - Preparation & works night before road opening	11.1.4 - Footing	g and frame/pole for directional sign FVMSH2, ADS16 and OHVD (Portion X	IA)									
1110-3020 Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 37 20-Jul-18 31-Aug-18 12d) (under discussion bet AECOM & TD) Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 12d) (under discussion bet AECOM & TD) Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 12d) (under discussion bet AECOM & TD) Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 12d) (under discussion bet AECOM & TD) Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 12d) (under discussion bet AECOM & TD) Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 12d) (under discussion bet AECOM & TD) 11.3 - Portion XIIA - Stage 3 - Preparation & works night before road opening Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 12d) (under discussion bet AECOM & TD) Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 12d) (under discussion bet AECOM & TD)	1110-3020 Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 37 20-Jul-18 31-Aug-18 12d) (under discussion bet AECOM & TD) Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 12d) (under discussion bet AECOM & TD) Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 12d) (under discussion bet AECOM & TD) Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 12d) (under discussion bet AECOM & TD) Miscellaneous Road Works at Portion XIIA (5 TTA - works only on Sun & PH; 12d) (under discussion bet AECOM & TD)	1110-2989		15	15-Aug-18*	31-Aug-18					Reinstatement of Footp	ath near FVMSH2 (currently	occupied by China S
12d) (under discussion bet AECOM & TD) 11.3 - Portion XIIA - Stage 3 - Preparation & works night before road opening	12d) (under discussion bet AECOM & TD) 1.3 - Portion XIIA - Stage 3 - Preparation & works night before road opening	11.2 - Portion)	(IIA - Stage 2 - Along Gordon House - Cross road ducting at Hing Fat S	t (public	c hol)								
		1110-3020		37	20-Jul-18	31-Aug-18					Miscellaneous Road W	orks at Portion XIIA (5 TTA -	works only on Sun &
1110-3030 Misc Works prior to CWB opening incl preparation - Stage 2 12 18-Aug-18 31-Aug-18 Misc Works prior to CWB opening incl preparation - Stage 2	1110-3030 Misc Works prior to CWB opening incl preparation - Stage 2 12 18-Aug-18 31-Aug-18 Misc Works prior to CWB opening incl preparation - Stage 2 12 18-Aug-18 31-Aug-18	11.3 - Portion)	(IIA - Stage 3 - Preparation & works night before road opening										
		1110-3030	Misc Works prior to CWB opening incl preparation - Stage 2	12	18-Aug-18	31-Aug-18	_			-	Misc Works prior to CV	B opening incl preparation -	Stage 2

Contract HY/2009/19 Three Months Rolling Programme (20.July.2018 to 20.Oct.2018)

R8_DWP_R08-	-02 MU63				SR8 - Layout	for 3N	/RP_	2108_06							
ctivity ID	Activity Name	Original Duration		Finish								201	18		
Total		2356d	21-Mar-13 A	01-Sep-19	Ju	n				Jul					Aug
	2) - Update Progress As of 20 Jun 18	2356d	21-Mar-13 A	01-Sep-19					 	 					
	9 (Include Re-provisioning Works of KD4,KD5)	247d	30-Jan-18 A	23-Sep-18					 	 					
External Wo	vrks Under KD9	151d	30-Jan-18 A	17-Sep-18					1						
Zone 1		60d	18-Apr-18 A	27-May-18 A					 						
Drainage A	lignment Confirmation for MH72, 73, 74 due to Tree T1106	60d	18-Apr-18 A	27-May-18 A					- 						
EXW_1155		60d	18-Apr-18 A	27-May-18 A	TA application and c	onstruc	ton of	e-routing of drainage work	s near RW8E	side					
Zone 4 up to	side s Elderly Facilities	125d	30-Jan-18 A	17-Sep-18					-						
Elderly Fac	ilities V/039 Received on 22 Jun 2017	100d	30-Jan-18 A	17-Sep-18											
EXW_2270	D Facilities fabrication	90d	30-Jan-18 A	13-Aug-18											Facilitie
EXW_2280	Ground levelling, drainage works and safety met installation	30d	14-Aug-18	17-Sep-18	-										
Additional	Walkway & Arbour V/040 Received on 22 Aug 2017	93d	28-Mar-18 A	28-Jul-18											
EXW_2310	Assiciated drainage works for the walkway	20d	28-Mar-18 A	23-May-18 A	rks for the walkway										
EXW_2320	Arbour installation and walkway construction	30d	03-May-18 A	28-Jul-18						1 1 -		Arbo	ur insta	Ilation and v	walkway constr
Reverting Tr	raffic for IEC,VP Rd & TF St & Seawall Reinstatement (KD9)	164d	26-Mar-18 A	23-Sep-18					 	 					
	Traffic Back to Original Alignment	105d	26-Mar-18 A	28-Jul-18					1						
	d TTA - IEC East Bound, Victoria Park Road & footpath along Sea Side	93d	28-Mar-18 A	28-Jul-18					1						
	e 1 - IEC (East Bound)	6d	21-Jun-18	26-Jun-18											
	emtment Existing Structure	6d	21-Jun-18	26-Jun-18											
EB_1020		6d	21-Jun-18	26-Jun-18				Install metal parape		wall (30m)				3	
	e 2 - Revert Traffiic back to Original Victoria Road	4d	27-Jun-18	30-Jun-18											
	Bridge Pararpet Reinstatement	4d	27-Jun-18	30-Jun-18					 	1					
EB_1180		4d	27-Jun-18	30-Jun-18				Install mate			10m)				
		93d	28-Mar-18 A	28-Jul-18					l parapet on p		+on)			<u> </u>	
	e 3 - Reinstatement of Footpath along Seafront								1						
	ement of Existing Utilities at Existing Footpath	86d	28-Mar-18 A	24-Jul-18											
EB_1600	•	10d	28-Mar-18 A	24-Jul-18											and NWT telec
EB_1620		5d	18-Apr-18 A	17-Jul-18	_				-	Reins	tate permane	ht wate	r main	1	
EB_1580	-	2d	20-Jun-18 A	20-Jun-18 A			Wat	er main Connection by WS	SD						
	ement of Permanent Footpath at Seafront	49d	27-May-18 A												
EB_1630		3d	27-May-18 A	29-May-18 A	ubbase										
EB_1640	· · · · · · · · · · · · · · · · · · ·	4d	29-May-18 A	25-Jul-18								Ĭ	·	manent Foo	
EB_1650	Pedestrian diversion on Permanent Footpath	1d	26-Jul-18	26-Jul-18					1		∎ P	'edestria	an diver	sion on Per	rmanent Footpa
Reinstate	ement Works in Traffic Deck Part B	3d	07-May-18 A	28-Jul-18											
EB_1700	 Backfill Type B Material up to 2m below F.F.L (Compaction by proof rolling method of 0.2m each layer) 	3d	07-May-18 A	28-Jul-18								Back	fill Type	B Material	up to 2m below
West Bound	d - IEC West Bound & Tsing fung Street	74d	26-Mar-18 A	06-Jul-18										1	
TTM Stage	e 2 - Revert Traffic back to Original Tsing Fung Street	5d	21-Jun-18	25-Jun-18											
Existing E	Bridge Pararpet Reinstatement	5d	21-Jun-18	25-Jun-18											
IECW_11	140 Install metal parapet on parapet wall (60m)	5d	21-Jun-18	25-Jun-18				Install metal parapet	on parapet wa	all (60m)					
TTM Stage	e 3 - Reinstatement of Victoria Park	21d	26-Mar-18 A	06-Jul-18											
Reinstate	ement Works inside Victoria Park	21d	26-Mar-18 A	06-Jul-18											
IECW_14	470 Slope Reinstatement of Victoria Park	21d	26-Mar-18 A	06-Jul-18			-		Slope Reinst	atement of Vi	toria Park				
Completion	of Minor Outstanding / Remaining Works for KD9	110d	18-May-18 A	23-Sep-18					• • •						
East Bound	d - Minor Outstanding Works in Footpath after Substantial Completion of KD9	88d	18-May-18 A	01-Sep-18					1	1					

中國連幕工程(香港)有限公司 CHINA STATE CONSTRUCTION ENGRG, (HONG KONG) LTD,

Actual Work Remaining Work

Milestone

Page 1 of 3

Critical Remaining Work

20-Jun-18 Contract No. HY/2010/08: Central - Wanchai Bypass Tunnel +(Slip Road 8 Section) - 3 Months Rolling Progamme

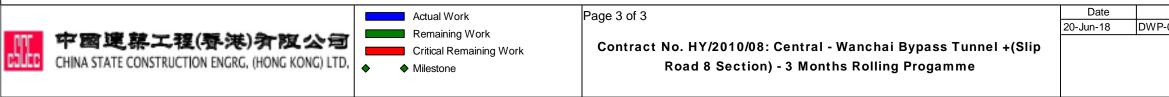
Date

						A	ppendix	C.5
Aug						Sep		
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	s fabrication							
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							Ground	levellin
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r telecr	m ducts and	construct d	a	wnits				
101000			ů	inplie				
Footpa	ath							
			-					
h below	F.F.L (Compa	action by pro	0	f rolling met	tho	d of 0.2m eac	h layer)	
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		evision				Checked	Approv	ed
DW	/P-08 (2) -	3 Months	R	lolling	Т	L	TL	

D	Activity Name	Original	Start	Finish							
		Duration			Ju	n		Jul	2018		
	ement Works for Existing Sign Gantry	75d	30-May-18 A	27-Aug-18							
EB_1750	Laying Public Lighting duct	3d	30-May-18 A	25-Aug-18							-
EB_1780	Erect Sign Gantry Steel Supports and Sign Gantry Beam across VPR and IEC E/B	4d	29-Jul-18	01-Aug-18						ct Sign Gantry	1
EB_1790	Installation of E & M at Sign Gantry (night work)	1d	02-Aug-18	02-Aug-18					Ir	stallation of E	. & M a
EB_1760	Connection of Public Lighting by HyD (Lighting)	2d	26-Aug-18	27-Aug-18							-
Minor Reinstate	ement Works for Central Median of IEC & Footbridge	6d	02-Aug-18	07-Aug-18							
EB_1800	Reconstruction of central divider (6m long, night work)	6d	02-Aug-18	07-Aug-18						Recor	nstru(
EB_1810	Dismantlement of temp directional sign mounted on extg footbridge	1d	03-Aug-18	03-Aug-18						Dismantlemen	nt of
Minor Reinstate	ement Works for Footpath	88d	18-May-18 A	01-Sep-18							
EB_1820	Place kerbline along VPR footpath	3d	18-May-18 A	23-Aug-18							<u> </u>
EB_1850	Backfilling subbase material	2d	27-May-18 A	29-May-18 A	ubbase material		-				
EB_1830	Reinstatement of District Council Welcome Sign and opening plaque at Planter area	1d	24-Aug-18	24-Aug-18							
EB_1840	Re-provision of Tree	8d	25-Aug-18	01-Sep-18							
Minor Reinstate	ement Works for Bus Stop	56d	23-May-18 A	29-Aug-18							-
EB_1860	Reinstatement of Permanent Bus Stop	5d	23-May-18 A	26-Jun-18 A			Reinstatement of Pe	manent Bus Stop			
EB_1870	Relocation of Bus Stop	1d	27-Jun-18 A	27-Jun-18 A			Relocation of Bus	Stop			
EB_1880	Reinstate Planter(Previous Temporary Bus Stop)	5d	25-Aug-18	29-Aug-18	_						
Minor Reinstate	ement Works for Loop Detector	4d	04-Aug-18	07-Aug-18		1					
EB_1900	Construction of concrete plinth and fix counter housing for Loop Detector (ILDS)	3d	04-Aug-18	06-Aug-18						Constru	uctior
EB_1890	E&W work for Reinstatement of Loop Detector (ILDS) by EMSD (night work)	1d	07-Aug-18	07-Aug-18	_					E&W	
	ompletion of Minor Outstanding / Remaining Works for KD9	95d	21-Jun-18	23-Sep-18							
	ement Works for Victoria Park		07-Jul-18								
		37d		12-Aug-18							
IECW_1500	Re-provision of Tree	32d	07-Jul-18	07-Aug-18	_					Re-pro	1
IECW_1510	Laying Irrigation Main	10d	22-Jul-18	31-Jul-18					Layin	g Irrigation Ma	1
IECW_1520	Construct Landscape Footpath and Lightings	7d	06-Aug-18	12-Aug-18							
	ement Works in IEC West Bound	95d	21-Jun-18	23-Sep-18							
IECW_1600	Replacement of new movement joint at IEC W/B (Sun midnight only)	8d	21-Jun-18	28-Jun-18			Replacement of	new movement joint at I	EC W/B (Sun midnight only)		
IECW_1610	Repairing of extg conc deck surface after milling of temp asphalt at IEC W/B and E/B (Su midnight only)	ın 57d	29-Jun-18	24-Aug-18							
IECW_1640	Erection of new precast concrete panels (12 nos.) at abutment M facing to VPR	2d	25-Aug-18	26-Aug-18							
IECW_1620	Repairing of concrete defects on extg concrete deck and abutment M	30d	25-Aug-18	23-Sep-18							
orks in Victoria	Park (KD4, KD5, KD9)	169d	01-Mar-18 A	07-Aug-18							
e-Provisioning	Norks	169d	01-Mar-18 A	07-Aug-18							
Nursery Compo	und	169d	01-Mar-18 A	07-Aug-18							
Nursery compo	und	169d	01-Mar-18 A	07-Aug-18							+
ABWF		27d	05-Apr-18 A	07-Aug-18						+ + +	1
Metal Fence		27d	05-Apr-18 A	07-Aug-18							
VP_NC_1820	Installation	30d	05-Apr-18 A	07-Aug-18						Install	latior
Fire Srevices		14d	21-Jun-18	07-Jul-18						<u> </u>	
	FS inspection	14d	21-Jun-18	07-Jul-18	-			FS inspection			
	Flushing Water Supplies	14d	21-Jun-18	07-Jul-18							
VP_NC_2100		14d	21-Jun-18	07-Jul-18				WSD Inspection			
	s Aside Nursery Compound	56d	01-Mar-18 A	14-Jul-18							
External Wor	ss Around Nursery Comnpound	56d	01-Mar-18 A	14-Jul-18							ĺ
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		Work		Page 2	of 3					Date 20-Jun-18	
-	連幕工程(春港) 有限公司	ining Work									

		A	ppendix C.5
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Laying Pu	blic Lighting o	duct	
orts and Sign Gantry Beam			
Gantry (night work)			
Conne	ection of Publ	lic Lighting by Hy	D (Lighting)
central divider (6m long, ni	ght work)		
ectional sign mounted on e	xtg footbridg	e	
Place kerbline	along VPR f	ootpath	
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Re	einstate Plant	er(Previous Ten	porary Bus Stop)
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rete plinth and fix counter			
statement of Loop Detect	or (ILDS) by	EMSD (night wo	rk)
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t Landscape Footpath and	Lightings		
Landscape Toolpain and	i Lightings		
Repairing of	extg conc d	eck surface afte	r milling of temp asp
Erection	of new prec	ast concrete par	nels (12 nos.) at abu
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Revision		Checked	Approved
VP-08 (2) - 3 Months	Rolling	TL	TL

SR	SR8_DWP_R08-02 MU63						SR8 - Layout for 3MRP_2108_06
Activ	/ity ID		Activity Name	Original Duration	Start	Finish	2018
		VP_NC_2250	Reinstatement of Existing Boundary Fence Wall Around Nursery Compound	45d	01-Mar-18 A	26-May-18 A	Jun Jul Aug Existing Boundary Fence Wall Around Nursery Compound Aug
		VP_NC_2260	EVA Construction	15d	28-May-18 A	14-Jul-18	EVA Construction
	KD11	, KD12, KD13,	KD18 Establishment Works for Landscape Softworks	390d	08-Aug-18	01-Sep-19	
	KD1 ⁴	1 - Section 7A:	Portion XIV & XV (Victoria Park Open Space)	365d	08-Aug-18	07-Aug-19	
	EW	_1012	Establishment Works - for Landscape Softworks and transplanted trees in Portion XV	365d	08-Aug-18	07-Aug-19	
	KD1	3 - Section 7C	: Portion IVA, VA, VIII, IX, XII (excl. DBH>500mm)	365d	02-Sep-18	01-Sep-19	
	EW	_1040	Establishment Works - for Landscape Softworks and transplanted trees in Portion IVA, VA, VIII, IX, XII excl. DBH>500mm	365d	02-Sep-18	01-Sep-19	
	KD1	8 - Section 11:	Transplanted Trees DBH>500mm in Portion VA and XII	365d	08-Aug-18	07-Aug-19	
	EW_	_1050	Establishment Works - for Landscape Softworks and transplanted trees DBH>500mm in Portion VA, XII	365d	08-Aug-18	07-Aug-19	
	KD10 - Preservation and Protection of Trees 108		1088d	21-Mar-13 A	27-Sep-18		
	PPT_	_0000	Preservation and Protection of Existing Trees	1088d	21-Mar-13 A	27-Sep-18	
	KD15	5 & KD8 - Moor	ing Components Upkeep (CBTS and ATS)	979d	15-May-14 A	21-Jun-18	
	MAR	_3020	Mooring Upkeep at Portion X(10) & XVI(16) - CBTS	979d	15-May-14 A	21-Jun-18	Mooring Upkeep at Portion X(10) & XVI(16) - CBTS



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Revision	Checked	Approved
NP-08 (2) - 3 Months Rolling	TL	TL
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