

# Hong Kong West Drainage Tunnel Newsletter Issue 8 April 2012

**Together We Build the Drainage Tunnel  
Together We Alleviate Flooding**

This newsletter is part of our communication programme that aims to keep stakeholders well-informed of the works progress and arrangement of Hong Kong West Drainage Tunnel Project. 7 issues have been published since July 2008 and this issue of Newsletter will be the last one for this Project. Before saying "good-bye", let us recapitulate what important milestones have been achieved by the Project.



## Major Milestones

- November 2007 • Commencement of HKWDT
- June 2008 • Ground breaking ceremony
- March 2009 • West Tunnel TBM "Oshin" launching ceremony
- May 2009 • East Tunnel TBM "Nuwa" launching ceremony
- February 2010 • Commencement of the first adit tunnel blasting works
- July 2010 • Raise boring machine firstly used to excavate dropshaft near Mount Butler Road
- July 2010 • Completion of the first adit tunnel excavation
- October 2010 • Completion of East Tunnel excavation
- January 2011 • Breakthrough of Main Tunnel
- February 2011 • Tunnel breakthrough ceremony
- August 2011 • Completion of first intake
- November 2011 • Completion of first adit tunnel concreting works
- 2012 • Completion and commissioning of HKWDT



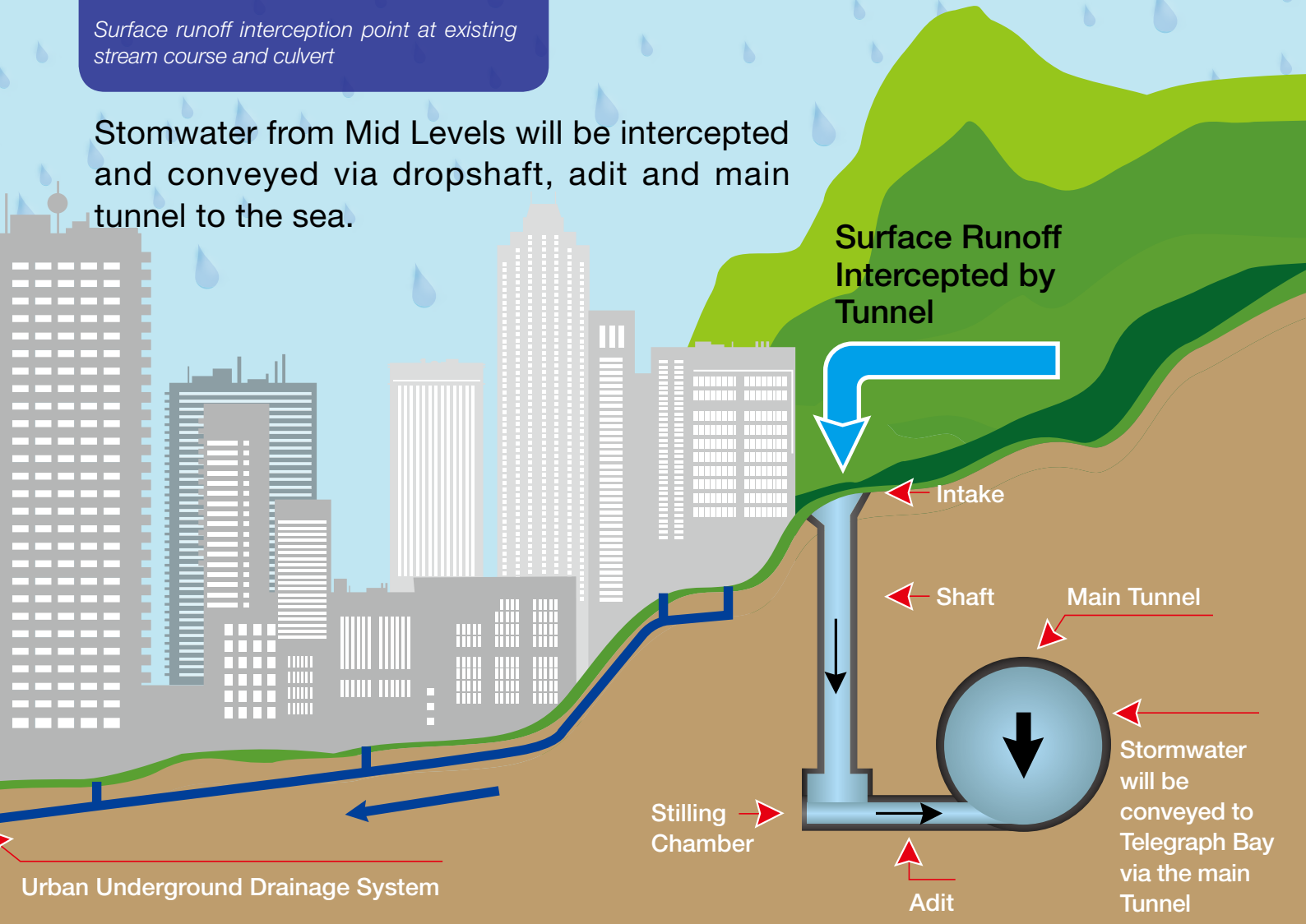


Surface runoff interception point at existing stream course and culvert



Overview of one of the 34 intakes - Intake MB16 at Mount Butler Road

Stormwater from Mid Levels will be intercepted and conveyed via dropshaft, adit and main tunnel to the sea.



11km long main tunnel



The discharge point of stormwater from the main tunnel - under construction

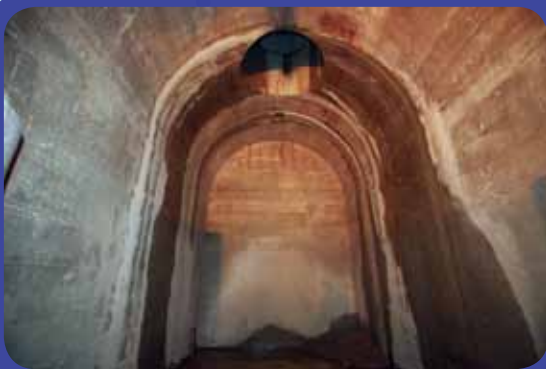
# Journey of Raindrops - A Tunnel Adventure



Surface runoff entering the dropshaft



Penstock is the gate to prevent surface runoff entering the tunnel during maintenance



Chamber for energy dissipation when surface runoff entering the adit



A shaft to allow surface runoff to fall from ground level down to the adit level

## Surface Runoff on Street



Adit tunnel to convey stormwater to main tunnel



Junction of the main tunnel and adit tunnel - under construction

# Progress Updates and Works Schedule

## Portal

Currently, structural works for the river channel at Eastern Portal is in progress while that for stilling basin at Western Portal is undergoing as well.



Stilling Basin at Western Portal

## Adit Tunnels

After 23 months of immense efforts, excavation works of the 8km long adit tunnels, each ranging from 31 meters to 800 meters long, were finally completed in early 2012.

The adit lining construction works are now in full swing.



Adit lining works in progress

## Intakes

Out of 34 intakes, 11 of them, including Intake SM1, MB16, THR2, HKU1, TP4, TP5, TP789, GL1, MA15, E5B and B2 have already been substantially completed. The construction of the remaining intakes is scheduled for completion in 2012.

Intake	Completion(%)
SM1	100
PFLR1	80
HKU1	95
W10	75
P5	30
W8	45
RR1	60
CR1	25
W5	50
TP4	95
TP5	95
TP789	95
M3	80
MA17	50
MA15	95
*MA14	80

Intake	Completion(%)
B2	95
W3	78
*BR6	85
BR5	90
W1	70
BR4	70
W0	75
DG1	75
HR1	75
GL1	95
THR2	95
E7	60
MBD2	92
MB16	95
E5B	95
E5A	80

\*Remarks: Two Intakes

## Our Great Honour

The Hong Kong West Drainage Tunnel (HKWDT) project team of the Drainage Services Department was awarded the "Silver Prize of the General Public Service Award" under the "Civil Service Outstanding Service Award Scheme 2011" on 12 September 2011. The award not only recognizes our people-based services in the project implementation, but also applauds our efforts in pioneering new technology.

In addition, the HKWDT was awarded the Winner of "Tunnelling Project of the Year (US\$ 100m to US\$1bn)" of the International Tunnelling Awards 2011 organized by New Civil Engineer and Ground Engineering. This is the only Hong Kong project, among more than 74 international entries that got shortlisted in the 12 categories and won. Presentation ceremony was held on 1 December 2011 introducing by the judges that "this is a model tunnelling project, delivered under difficult circumstances"



## We Care We Connect

As a continual effort to enhance the understanding of the public about this innovative flood prevention solution, school talk was held at Ying Wa Girls' School on 30 September 2011.



Ying Wa Girls' School talk attracts around 600 classmates



Dragages-Nishimatsu Joint Venture, the main contractor of this Project, has again sponsored the Annual Fun Day of Marymount Secondary School and Marymount Primary School held on 4th July 2011 in support of their environmental protection activities.



Marymount Secondary School and Marymount Primary School's Annual Fun Day 2011



## Key Facts

The Employer : Drainage Services Department  
 Consultant : Ove Arup & Partners Hong Kong Ltd.  
 Contractor : Dragages - Nishimatsu Joint Venture  
 Project Commencement Date : November 2007  
 Anticipated Completion Date : 2012

## Contact Us

We value your views on the Project. Please feel free to contact us.

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