

# DISCOVERING PUNGGOL WATERWAY

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*An Eco-Learning Journey Guide*

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My Waterway@Punggol

celebrating *life* in the heartlands



# MY WATERWAY@PUNGGOL

MAP



ROLLOVER TO VIEW MORE...

## *Singapore's Longest Manmade Waterway...*



HBD's Punggol Waterway (PWW) was officially opened on 23 October 2011 by Prime Minister Lee Hsien Loong. The waterway, curving gently through the heart of Punggol town, plays a key role as a recreational, educational and water-based hub for sports and other activities. With the new generation of public housing to be developed along its banks, it will bring to life the promise of "Green living by the waters" for the residents.

## DO YOU KNOW?

PWW IS 4.2KM LONG AND LINKS SUNGEI PUNGGOL AND SUNGEI SERANGOON.

THE WIDTH OF THE PWW VARIES FROM 10M TO 85M.

PWW OCCUPIES THE AREA OF 22 FOOTBALL FIELDS.

THE VOLUME OF WATER IN THE PWW IS THE EQUIVALENT OF 200 OLYMPIC-SIZE SWIMMING POOLS.

4,800 TREES ARE PLANTED ALONG THE PWW.



The Heartwave Wall feature is 280m long and 8m tall, and features a series of heritage panels tracing Punggol's transformation from fishing village to vibrant town.



Heartwave Wall

The name "My Waterway@Punggol" was chosen by a focus group of 1,200 Singaporeans.

### AWARDS:

- ASEAN Outstanding Engineering Achievements Awards
- Gold Awards - 2012 International Award for Liveable Communities
- FIABCI Singapore Property Award
- Global Superior Award by the International Water Association

### GREEN CONSTRUCTION:

3,300,000m<sup>3</sup> of earth, equivalent to 1,300 Olympic-size swimming pools, was dug up to create the PWW. The earth was used to fill nearby low lying areas in preparation for new estates.



## ***Freshwater Mangrove***

Mangroves used to line the lengths of rivers especially those around Punggol. However, rapid urbanization has drastically reduced total mangrove coverage in Singapore, from 13% to just 0.5%. The introduction of freshwater mangroves along Punggol Waterway will help improve water quality and enhance biodiversity.

Punggol Waterway is the only man-made water in Singapore where visitors can see such large varieties - more than 22 species of fresh water tolerant mangroves in one place.

## ***Marginal Planting***

Marginal Planting is coupled with the riprap to blend in naturally along the embankment.

Riprap is used as a form of embankment treatment along Punggol Waterway. Riprap assists in slope stability & integrity.

With the marginal planting coupled with the riprap, it ensures that water flowing into the waterway is free of silt, debris or other substances harmful to aquatic life.



## Water Aeration

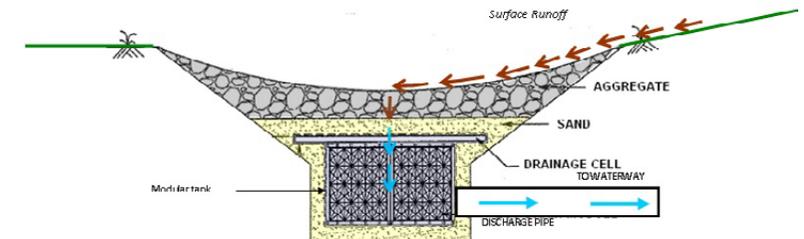
Aeration is a water quality improvement method that promotes the dissolving of oxygen in water. It infuses air into bottom of pond. This allows for oxygen and release of carbon dioxide by surface agitation using spray-like device.

A total of 90 surface aerators are installed along the PWW. To create vibrancy and excitement along the activity nodes, “mushroom” and “column” aerator jets are used for aeration at these areas.



## Eco Drain

Eco-drain is a deliberate effect to add green features throughout the waterway. Eco-drains along the promenade which capture surface run-off and cleanse them before they are channelled into the waterway.





## ***Floating Wetlands***

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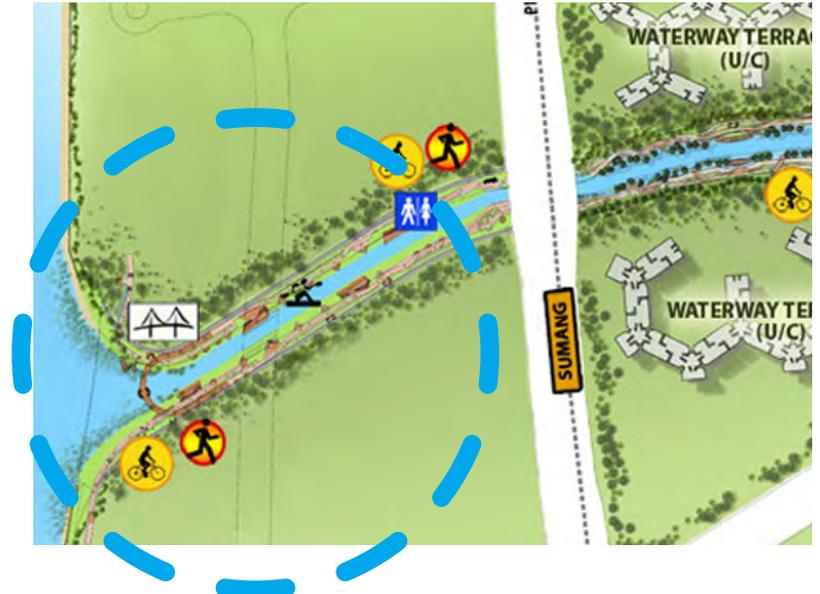
The man-made floating mats contain a wide array of wetland plant species. They help to enable cleansing of water through phytoremediation. The natural filtration system improves water quality in water body.



## ***Embankment Treatment***

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Bio-engineering techniques are deployed at some stretches of the Punggol Waterway to give character to these areas. These techniques harness the inherent qualities and capabilities of organic matters (plants, seeds, branches, roots etc) to further stabilize the waterway. Extensive planting scheme at these areas help create habitat for birds and butterflies to enhance the bio-diversity of waterway.



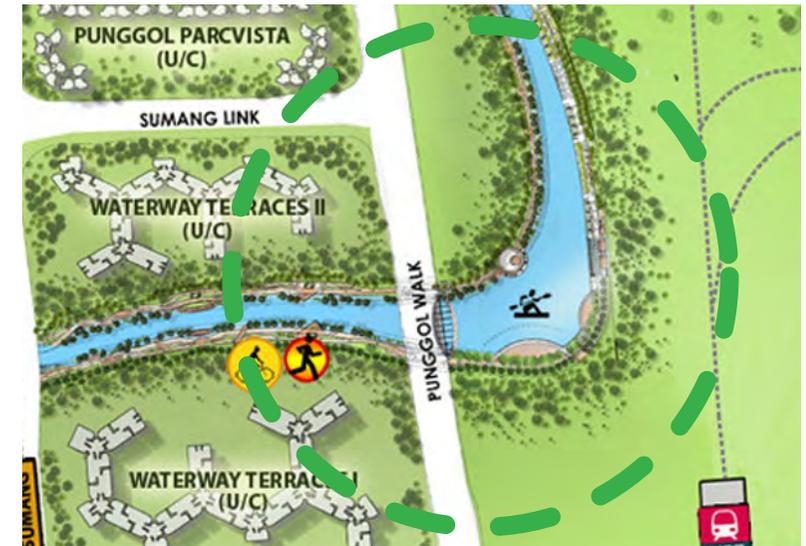
## ***Jewel Bridge***

This bridge design is inspired by a jewel atop a ring, and the dome-shape trellis acts as the focal point to symbolise the “jewel” at the eastern confluence of Punggol Waterway.

The focal point at the bridge deck also oversees to the Western end of the Punggol Waterway, where visitors can enjoy interesting views against the evening sky and admire the setting sun along Punggol Reservoir.

## ***Sunset Strip***

Sunset Strip is a great place to enjoy the scenic views against the evening sky and admire the setting sun along Punggol Reservoir.

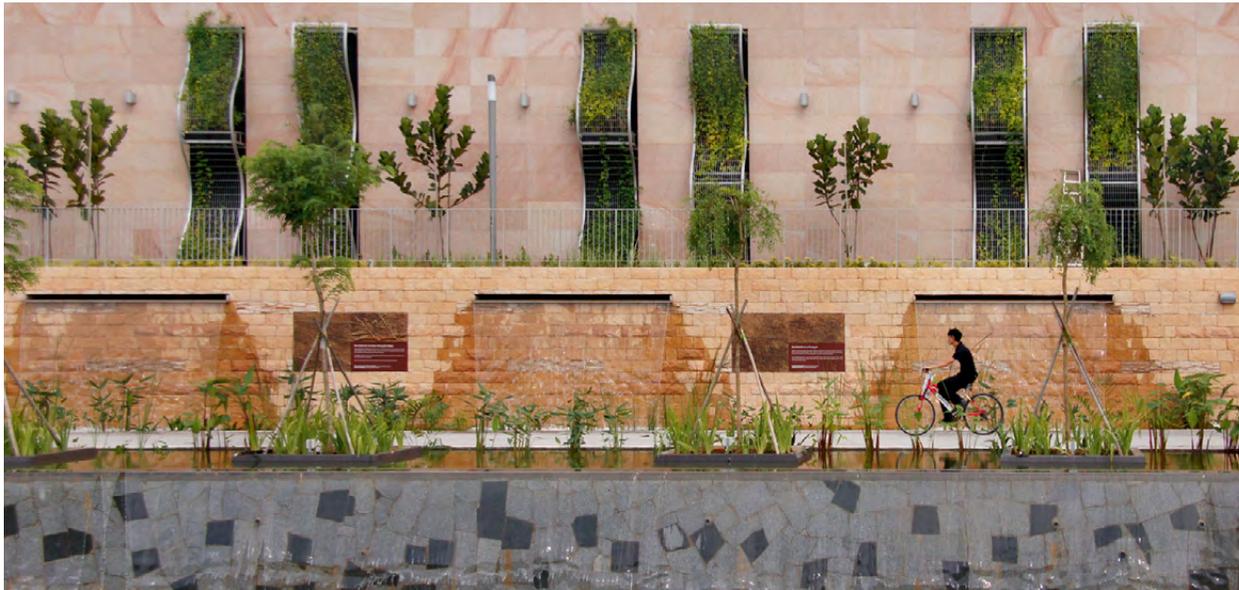


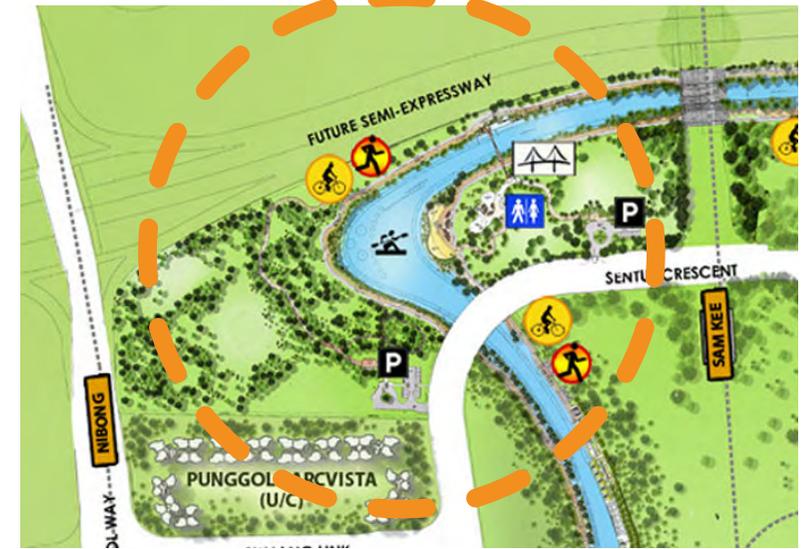
## ***The Punggol Walk Bridge***

The design of the Punggol Walk Bridge derives its inspiration from Punggol's heritage as a seaside village. The shape of the bridge is designed to echo a "Crab net", a commonly used equipment used in Punggol's yester-years where residents/visitors used for crab fishing. The arch of the bridge also serves to signify as a gateway/portal to Punggol Eco-town.

## ***Heartwave Wall***

Heartwave Wall is a 280m long retaining wall along the promenade of My Waterway@Punggol. The heritage educational panels along the wall reflect Punggol's transformation from a fishing village to a vibrant waterfront town of the future.





## ***Adventure Bridge***

This eye-catching steel bridge is designed to resemble a wooden suspension bridge that blends with the natural park setting.

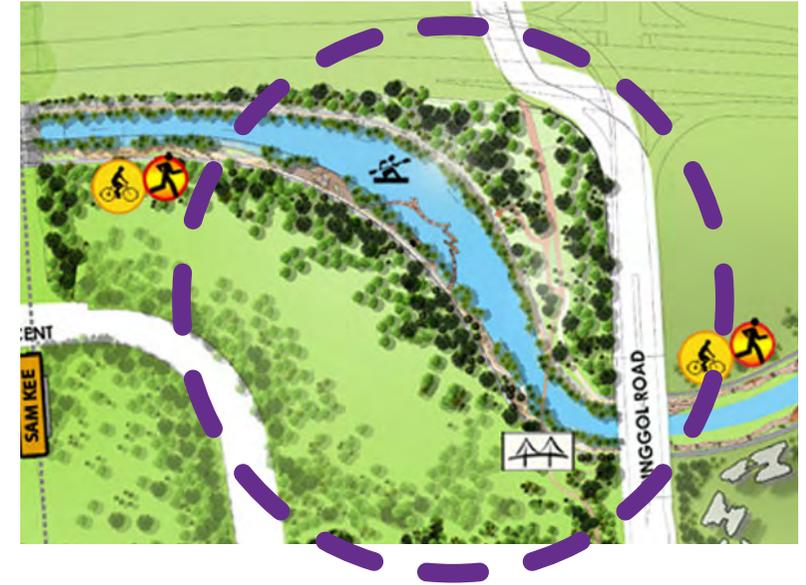
This prominent landmark provides visitors an adventurous experience while crossing Punggol Waterway and enjoying the scenery of the park and the waterway.

## ***Punggol Waterway Park***

Is a place for family fun and to have a great workout!

- 1. Sand Play Area**
- 2. Water Play Area**
- 3. Fitness Area**





## ***Watersports Promenade***

Watersports Promenade brings visitors closer to the Waterway and facilitates easier participation in various water activities such as kayaking and canoeing in future.

Not only does the park bring water closer to people, it brings history up close as well.



## ***Kelong Bridge & Heritage Trail***

Located in the Heritage zone of the town Punggol Waterway park, the Kelong Bridge follows the alignment of the old Punggol Road and leads to a heritage trail.

Bridging with the history of Punggol, the design recaptures the idyllic mood of old Punggol and its fishing villages. This bridge sports a stilts-and-posts design element that props lightly over Punggol Waterway giving visitors an experiential journey across the waterway.





## ***Look-Out Pavilion***

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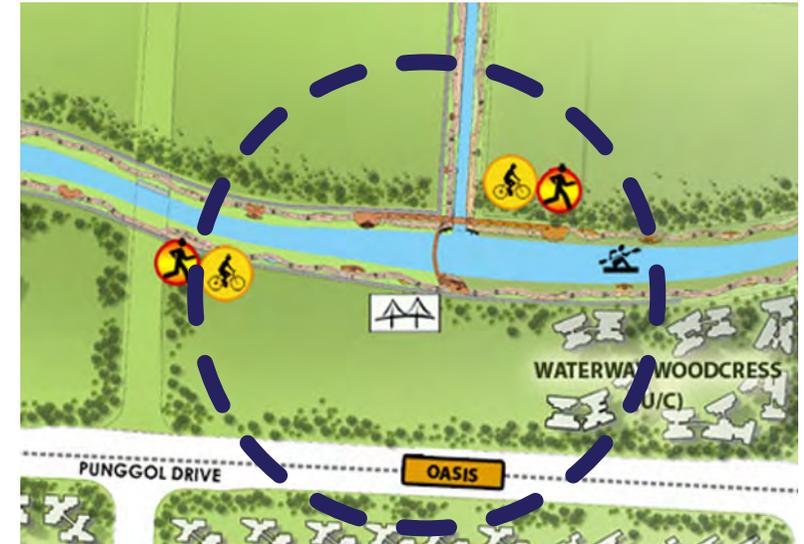
Drop by the Look-Out Pavilion for scenic view of My Waterway@Punggol and the Watersports Promenade.



## ***Old Bus Stop***

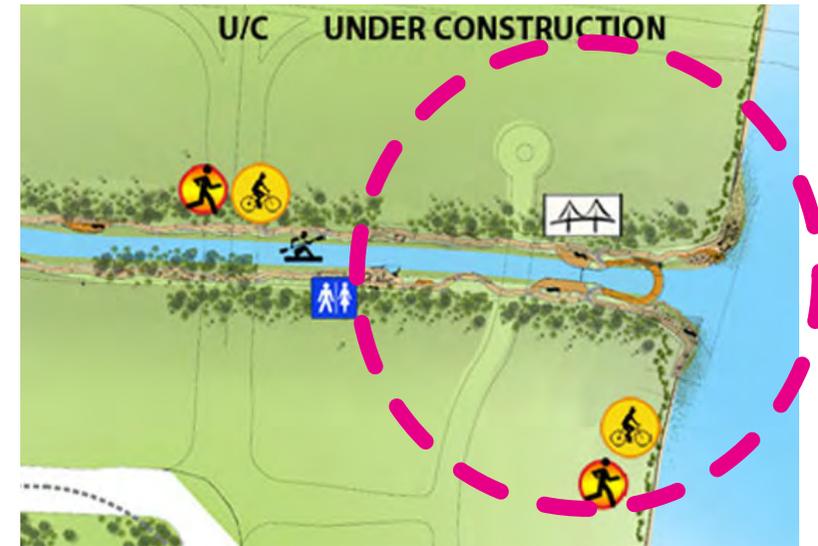
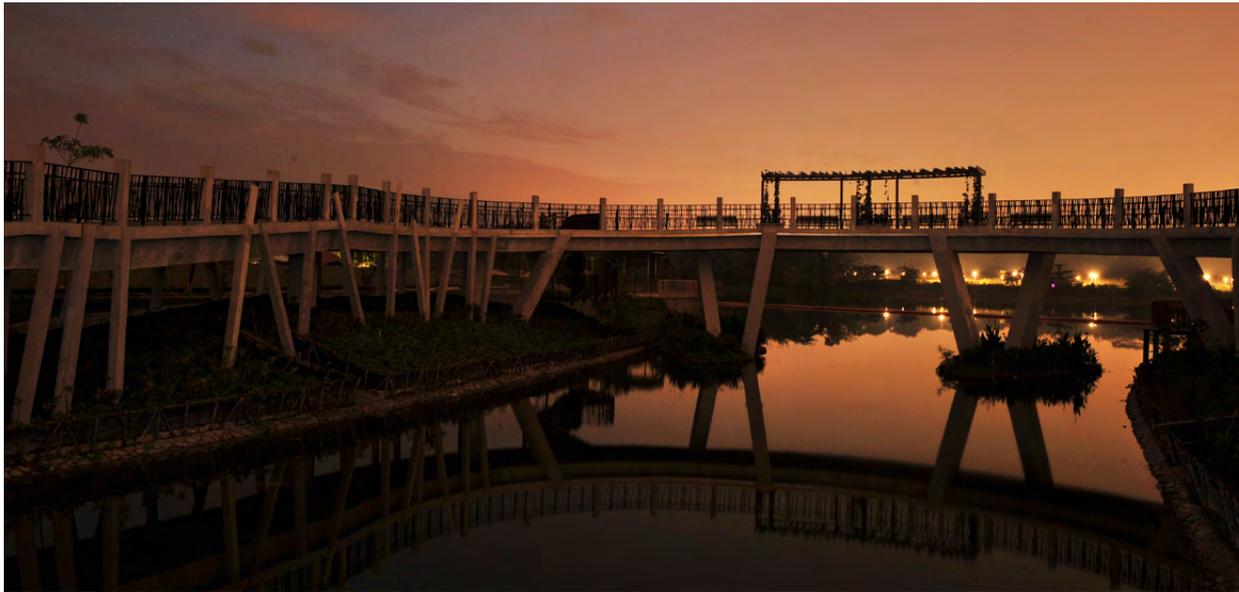
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An old bus stop and a 160m stretch of the old Punggol Road was preserved in this area to serve as a sheltered rest stop and to relive old memories of Punggol.



## ***Wave Bridge***

The bridge is a continuation story of the undulating landform to connect both banks of the promenades. The wavy railings design is to further accentuate the characteristics of the meandering and undulating landscape.



## ***Sunrise Gateway***

The eastern confluence of the waterway boasts a rural landscape theme with mangroves and floating wetlands. A great place to view the sunrise and the Serangoon Reservoir.

## ***Sunrise Bridge***

The Sunrise Bridge is the highlight of the eastern end of Punggol Waterway. The bridge offers the best view of the Punggol Waterway and Serangoon Reservoir. It was also designed to be elevated to offer visitors a good view of the sunrise. The bridge design continues the language of the weaving boardwalk along the river banks, blending the rustic flavour with a modern twist. The slanted columns that prop the bridge recall the stilts and posts design element that also can be seen at look-out pavilion and Kelong Bridge in the Punggol Waterway park.

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