

Cherish Water Campus

惜水學堂

ISSUE 24
Sep 2024

Dave, you know what are the upcoming challenges of water supply in Hong Kong?

- Fluctuating local yield and Dongjiang water supply due to climate change
- Keen competition for the Dongjiang water resource
- Increasing water demand arising from population and economic growth

You are right!

Water Supplies Department (WSD) is striving to strengthen Hong Kong water supply management through exploring new sources of water supply. Today, I would like to introduce one of the new water source - DESALINATION.



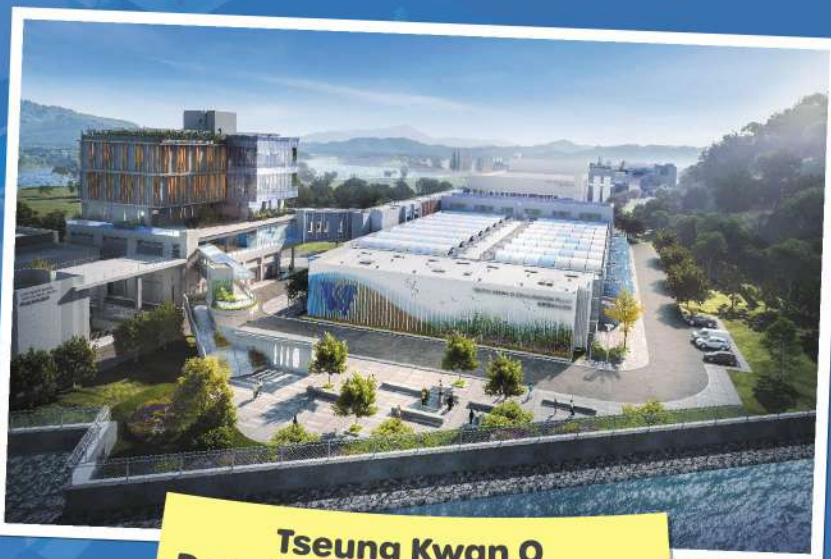
**DO YOU
KNOW**



ESALINATION?

DESALINATION is a new and **STABLE WATER** source that is not susceptible to climate change.

The first stage of the Tseung Kwan O Desalination Plant (TKODP) commissioned for supplying water in December 2023. The TKODP is the first waterworks in Hong Kong to adopt an advanced reverse osmosis desalination technology. Upon entering into full operation, the TKODP will meet around 5 per cent of the overall fresh water demand in Hong Kong with a water production capacity at 135 000 cubic metres per day. The TKODP, together with the Pak Kong Water Treatment Works and the Tseung Kwan O Primary Fresh Water Service Reservoir, will supply drinking water to Sai Kung as well as parts of East Kowloon and Hong Kong Island.



**Tseung Kwan O
Desalination Plant (TKODP)**



水務署

Water Supplies Department

What is

REVERSE OSMOSIS?



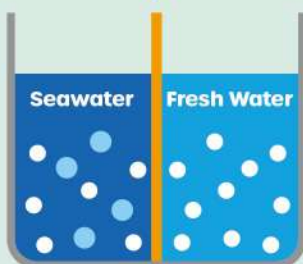
No problem!

Desalinated water complies with World Health Organisation's Guidelines for Drinking-water Quality on a par with the quality of water supplied by other water treatment works in Hong Kong. To ensure drinking water safety in Hong Kong, the WSD has implemented a series of measures to monitor and strictly control the overall water quality produced by the TKODP.

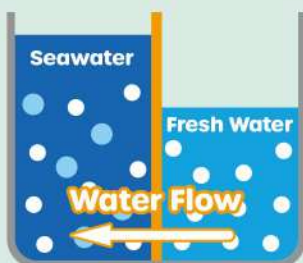
Dave,
are we safe to drink
the desalinated
water?



Semi-permeable
Membrane

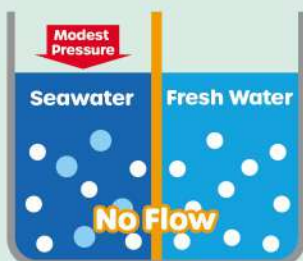


Seawater and fresh water with the same volume are separated by a semi-permeable membrane in a container.



Natural Osmosis

Under normal osmosis, water diffuses from less concentrated solution to more concentrated solution through a semi-permeable membrane to achieve osmotic equilibrium.



At Osmotic Equilibrium

Modest pressure is applied to the seawater side so that fresh water cannot flow pass through the membrane.



Reverse Osmosis

Reverse osmosis is the process of forcing water from concentrated solution to less concentrated solution through a semi-permeable membrane under high pressure. The membrane allows fresh water to pass through while it retains salts and other impurities.



If you wish to know more about DESALINATION, please join WSD Open Day 2024. You may visit the webpage for details.

"Cherish Water Campus" Water Saving Week 2024

"Cherish Water Campus" Water Saving Week 2024 concluded successfully.
We would like to express our gratitude to all participating schools, teachers and students for their support to this event.

The Most Active Participation Award

Shau Kei Wan
Government Primary School

Tuen Mun Government
Primary School

Chiu Sheung School
Hong Kong

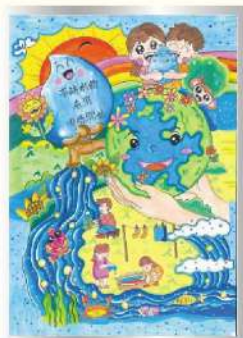
"Save Water Today for a Sustainable Future" Poster Design Competition

Junior Primary



Champion

Hong Kong Baptist
Convention Primary School
Chong Sun Wai



1st Runner-up

Q.E.S. Old Students' Association
Branch Primary School
Pang Yuen Hei



2nd Runner-up

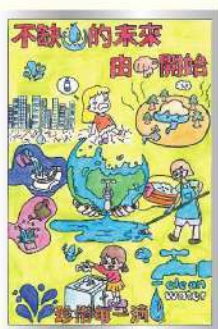
CCC Kei Chun Primary School
Siu Sum Yiu

Senior Primary



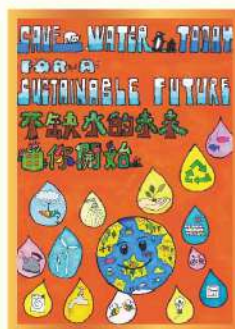
Champion

Hon Wah College
(Primary Section)
Wong Tik Long Khson



1st Runner-up

YL Long Ping
Estate Wai Chow School
Weng Chi Wing



2nd Runner-up

Salesian School
Lam Chi Him

**Congratulations to
all awardees!**



More
Awardees





Event Notice Board

Water Save Wonderland



WELCOME

The "Water Save Wonderland" Roving Roadshows launch from September 2024. Join us to learn more water saving tips, participate in the interactive games and win the fabulous prize!

7 - 10 Nov 2024
EVENT HALL, G/F, OLYMPIAN CITY 2

14 - 17 Nov 2024
COVERED PIAZZA, G/F,
TIMES SQUARE, CAUSEWAY BAY



Fun Games



Free Goodies

Water Conservation Carnival

5 - 15 Dec 2024
HarbourChill, Wan Chai
(near Wan Chai Ferry Pier)

Exciting Activities
Let's play together!



New Water Saving AR Filter Launched



Come & Join!!