BUILDING A WORLD OF DIFFERENCE

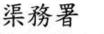
HARBOURFRONT COMMISSION TASK FORCE ON HARBOURFRONT DEVELOPMENTS IN KOWLOON, TSUEN WAN AND KWAI TSING

Lei Yue Mun Village Sewerage Project



環境保護署 Environmental Protection Department





Drainage Services Department



Project Background

- When being consulted on the Lei Yue Mun (LYM) Waterfront Enhancement Project by the Tourism Commission in October 2010, the Task Force raised concern about the lack of public sewerage in LYM Village
- Existing public sewers only cover part of the LYM Praya Road
- No septic tanks for most village houses/squatters. Polluted flow discharging into the harbour via existing surface channels



Existing Village Houses in LYM



Existing Surface Channel

Project Objectives

- Collect wastewater and polluted flow from LYM Village
- Minimise polluted flow from discharging into the harbour





Proposed Sewerage Works

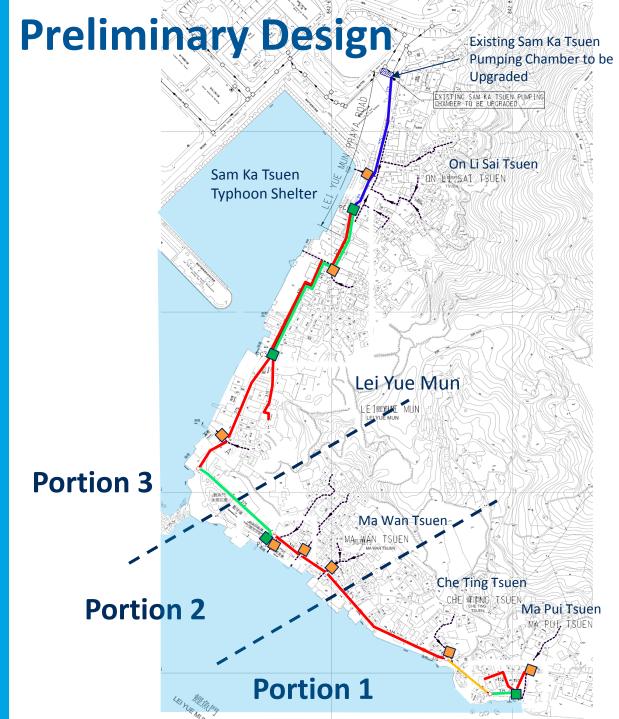
- Construct sewers and rising mains with associated underground pumping chambers and manholes
- Upgrade existing Sam Ka Tsuen Pumping Chamber (SKTPC)
- Upgrade existing sewers at LYM Praya Road
- Construct underground dry weather flow interceptors to intercept dry weather flow
- Provide associated surface drainage



LYM Praya Road



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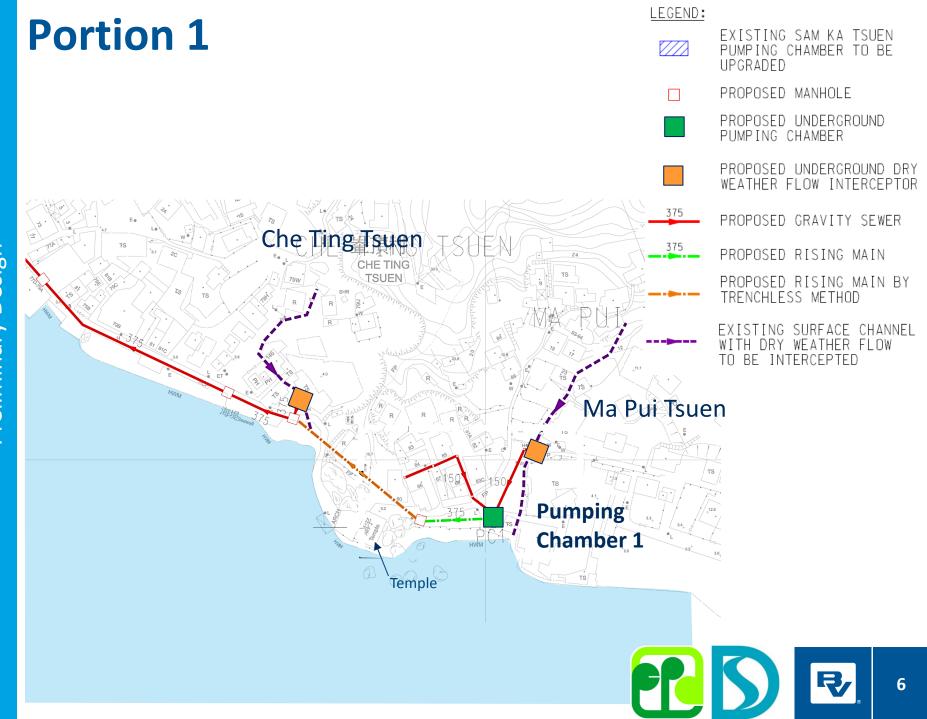


LEGEND:

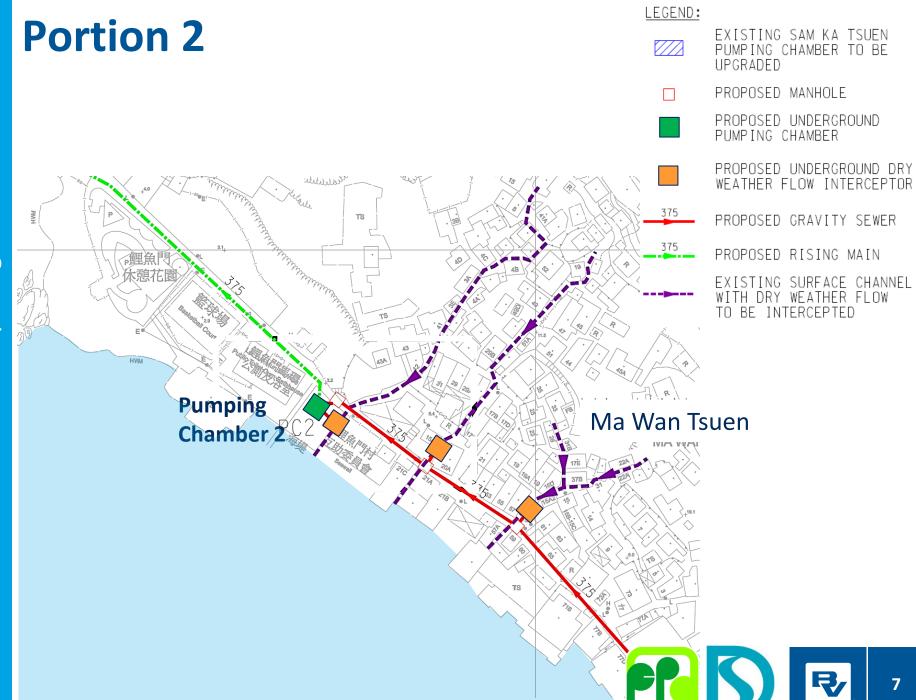
EXISTING SAM KA TSUEN $\overline{}$ PUMPING CHAMBER TO BE UPGRADED PROPOSED MANHOLE PROPOSED UNDERGROUND PUMPING CHAMBER PROPOSED UNDERGROUND DRY WEATHER FLOW INTERCEPTOR 375 PROPOSED GRAVITY SEWER 375 PROPOSED RISING MAIN PROPOSED 375mm DIA. GRAVITY SEWER TO REPLACE EXISTING SEWER PROPOSED RISING MAIN BY TRENCHLESS METHOD EXISTING SEWER EXISTING MANHOLE \square EXISTING SURFACE CHANNEL WITH DRY WEATHER FLOW TO BE INTERCEPTED

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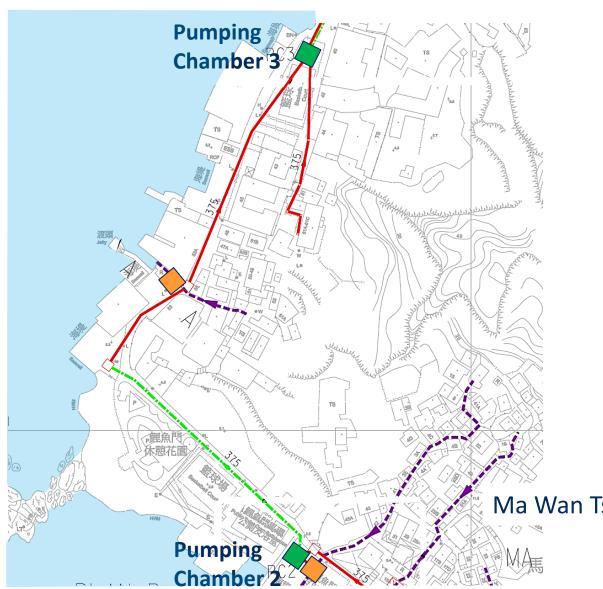


Preliminary Design



Portion 3

Preliminary Design



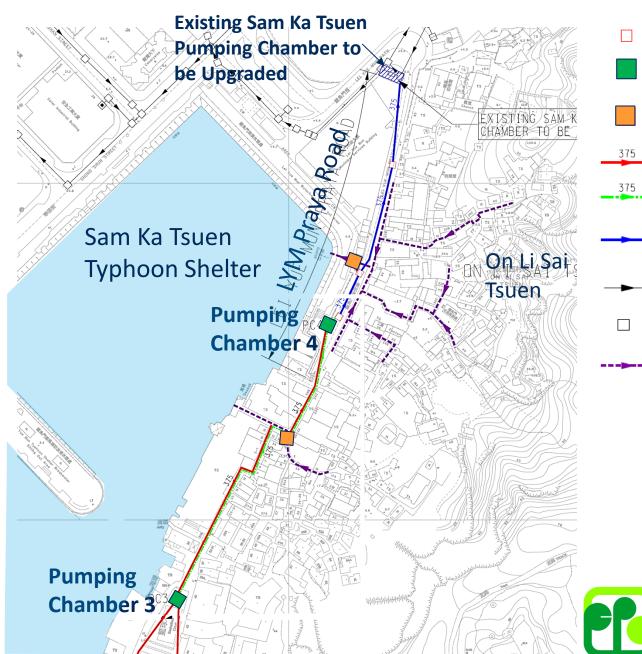
LEGEND:

	EXISTING SAM KA TSUEN PUMPING CHAMBER TO BE UPGRADED
	PROPOSED MANHOLE
	PROPOSED UNDERGROUND PUMPING CHAMBER
	PROPOSED UNDERGROUND DRY WEATHER FLOW INTERCEPTOR
375	PROPOSED GRAVITY SEWER
375	PROPOSED RISING MAIN
	EXISTING SURFACE CHANNEL WITH DRY WEATHER FLOW TO BE INTERCEPTED

Ma Wan Tsuen

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Portion 3



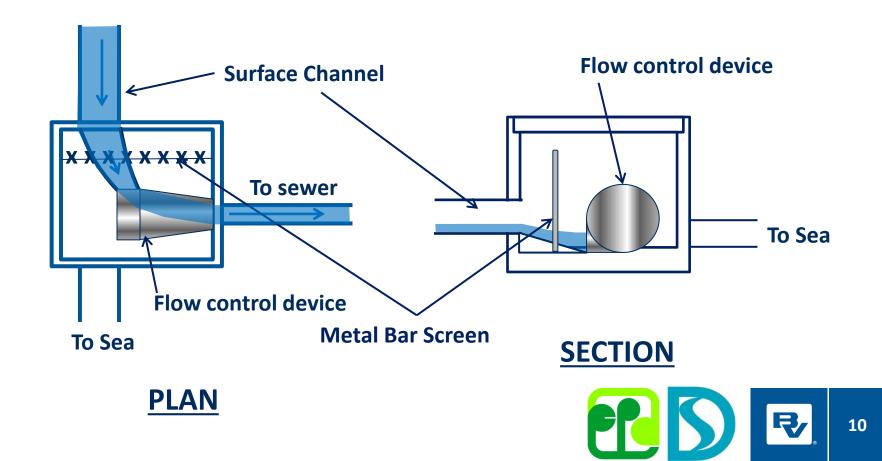
LEGEND:

EXISTING SAM KA TSUEN $\overline{\mathcal{T}}$ PUMPING CHAMBER TO BE UPGRADED PROPOSED MANHOLE PROPOSED UNDERGROUND PUMPING CHAMBER PROPOSED UNDERGROUND DRY WEATHER FLOW INTERCEPTOR PROPOSED GRAVITY SEWER PROPOSED RISING MAIN PROPOSED 375mm DIA. GRAVITY SEWER TO REPLACE EXISTING SEWER EXISTING SEWER EXISTING MANHOLE STING SURFACE CHANNEL FH DRY WEATHER FLOW TO BE INTERCEPTED

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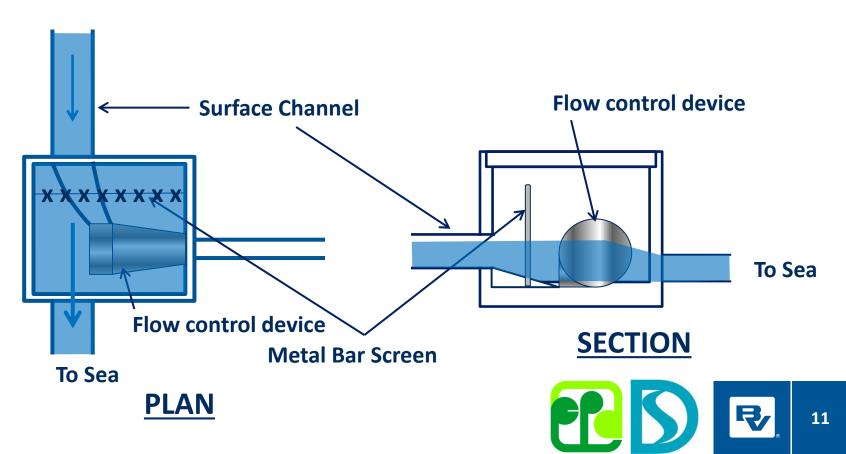
Schematic Design of DWFIs

- During Dry Weather
 - Polluted dry weather flow to be intercepted to the proposed sewers



Schematic Design of DWFIs

- During Wet Weather
 - Flow to be significantly diluted, mainly contain rainwater, and discharged to sea
 - Prevent overloading the sewerage system



Aesthetic Design

- All proposed works to be located underground, except for control panels of pumping chambers (< 1.4m long x 0.6m wide x 1.8m high)
- Size of control panel similar to existing cabinets
- Final aesthetic design to be agreed with LYM Waterfront Enhancement Project and local representatives



PCCW Cable Cabinet

Fire Service Cabinet



Current Status of the Project

- Local District Council member, villagers and local representatives consulted in Jun 2015 and Jun 2016. Support to the Project obtained
- Environment and Hygiene Committee of Kwun Tong District Council consulted on 20 Sep 2016
- Detailed design being carried out and to be completed by mid-2017
- Construction works anticipated to commence by end 2017 for completion in 2021 (subject to funding approval)







Compliance with Harbour Planning Principles

- No reclamation works and public access to harbourfront not affected
- Stakeholders' support obtained in Jun 2015 and Jun 2016
- Mainly underground works do not have any visual impact
- Project minimises polluted flow discharged into the harbour
- Project improves the overall environment and hygiene of LYM and hence attract more tourists to visit and enjoy the harbourfront



Thank You

