



***SELANGOR WATERS
MANAGEMENT AUTHORITY
SWMA/LUAS***



**' CLEAN WATER: CHALLENGES IN MANAGING THE UNTREATED
WASTEWATER IN PULAU KETAM (CRAB ISLAND)'**

BY

NORFAEZAH SHAMSUDDIN

ENGINEER

DIVISION OF RIVER BASIN AND COASTAL MANAGEMENT

PRESENTATION OUTLINES

- ✓ **INTRODUCTION**
- ✓ **SANITATION SYSTEM IN PULAU KETAM**
- ✓ **THREAT AND PROBLEM**
- ✓ **APPROACH**

INTRODUCTION

- ❖ Pulau Ketam is an island mostly inhabited by the Chinese from the clans of Teochew and Hokkien;
- ❖ located off the coast of [Port Klang, Selangor, Malaysia](#);
- ❖ The Island is a mangrove island surrounded by mud flat area;
- ❖ 6,000 villagers and over 1,000 houses on this fishing village;
- ❖ housing on the island consists of "[floating houses](#)" perched on wooden stilts 1 to 10 metres (3 to 33 ft) above sea level as the island is submerged during high tide;
- ❖ No cars on the island; bicycles, some of which are motorized, are the main means of transportation within the villages.



- ❖ No pavements linking the villages, the only means of transportation between villages is by boat;
- ❖ The main economic activity on the island is fishing. The island is also a tourist spot;



SANITATION SYSTEM IN PULAU KETAM

- ❖ During the last two decades of 80s and 90s, the sanitary and hygienic conditions in Pulau Ketam were so bad;
- ❖ The island lost much of its glamour as focal point for tourism in the area;
- ❖ To date, the sanitation system for almost of the floating houses, hotels, restaurants and institutions is still the same;
- ❖ There is no sewage treatment plant on the island due to area constraint;
- ❖ Currently, there is no connecting sewage pipeline from the island to the mainland;
- ❖ The island's inhabitants are still comfortable with this situation but agree if there is a proposal to provide better sewage system in the future.

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THREATS AND PROBLEMS

- Water Quality Degradation - E-coli
- Fisheries Depletion
- Spread of diseases - Waterborne diseases, Diseases transmitted by the faecal-oral route, Malnutrition, particularly in children
- Decreasing of tourists – GDPs 

APPROACH

- ❖ To educate the inhabitants the importance of proper sanitation systems;
- ❖ To fully implement the Port Klang ICM Action Plan – Policy 1 (Water Pollution);
- ❖ To increase awareness programs by NGOs (i.e: Actyvate);
- ❖ Klang Municipal Council is recommended to develop a Sewage and Sewerage Master Plan for Pulau Ketam
- ❖ State Government needs to provide finance allocation for the management of sewage system

RESULT

- ❖ One of the schools on the island has set up a storage tank for untreated sewage in order to educate the young generations on the importance of systematic and treated sewage management;
- ❖ A lot of awareness programs have been conducted on this island which also cover the management of solid waste – the volume of solid waste has decreased.



Port Klang Coastal Strategy

VISION

**A CLEAN, HEALTHY, ATTRACTIVE AND
VIALE COASTAL AREA FOR PRESENT AND
FUTURE GENERATIONS**

This Vision represents a statement of hopes and objectives from the stakeholders in the coastal areas of Klang and Kuala Langat for the future of their areas based on the integrated considerations on ecological, social and economic factors. It also declares their commitment and responsibility for safeguarding this natural treasure for the benefit of current and future generations.

Port Klang Coastal Strategy

MISSION

**TO INTEGRATE THE PLANNING, MANAGEMENT
AND IMPLEMENTATION EFFORTS FOR THE
DEVELOPMENT OF COASTAL AND
CONTINGENT WATERSHED AREAS WITH THE
PARTICIPATION OF ALL PARTIES**

This mission enunciates the means by which the Coastal Strategy will be implemented in order to achieve its vision. The government, the private sector and the civil society will work together as partners.

A photograph of a dolphin leaping from the ocean surface. The dolphin is captured mid-air, its body arched as it moves from the water. The ocean is a deep blue with gentle ripples. In the background, a hazy coastline with a prominent mountain peak is visible under a bright blue sky with wispy white clouds. The dolphin's reflection is visible in the water below it.

Thank You