

# The State of Kuwait

## Ministry of Public Works Sanitary Sector

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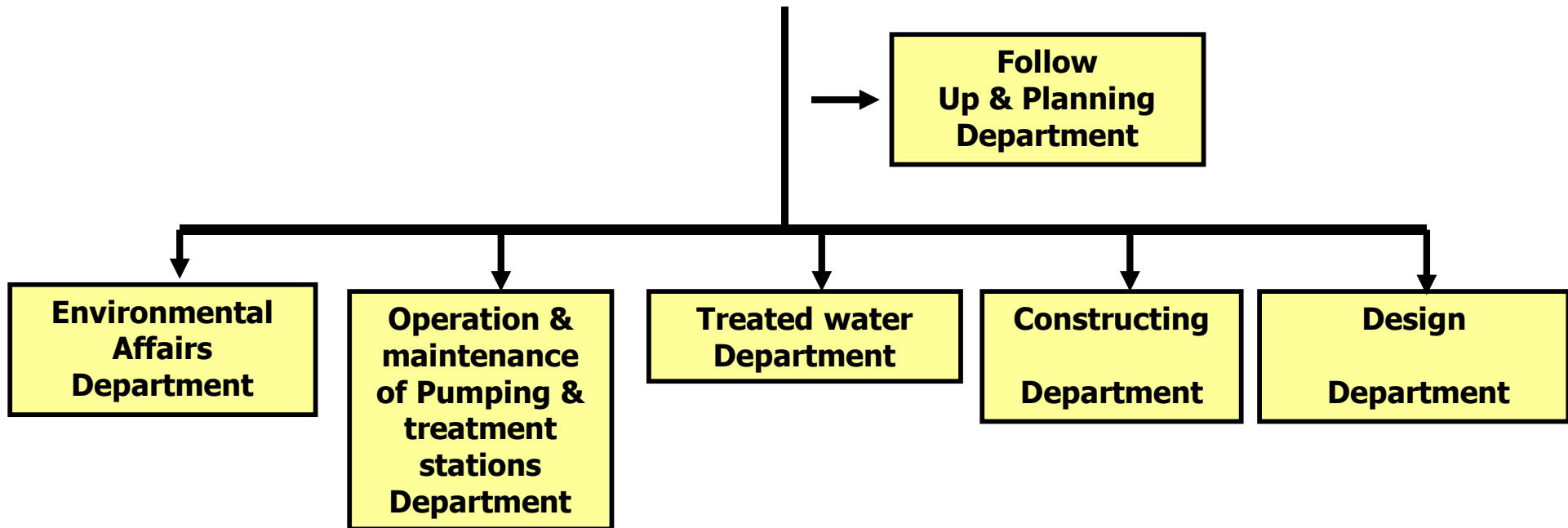
# Master Plan Aims

## 2012-2045

- Provide and improve the performance of sanitation infrastructure, protect the environment and make maximum use of treated water by using the latest technologies for treatment according to international standards
- Management, operation, and maintenance of domestic sewage facilities

# Sanitary Engineering Sector Structure

## Assistant Undersecretary of Sanitary Engineering Sector



## Quantity of waste water 2020

<b>Treated Water m3/day</b>	<b>Inflow m3/day</b>	<b>Capacity m3/day</b>	<b>Build Up Year</b>	<b>WWTP</b>
<b>275,000</b>	<b>280,000</b>	<b>180,000</b>	<b>1982</b>	<b>Rikka</b>
<b>38,500</b>	<b>39,000</b>	<b>27,000</b>	<b>2001</b>	<b>Um Alhiman</b>
<b>3,000</b>	<b>3,500</b>	<b>5000</b>	<b>2002</b>	<b>Wafra– Sabah Al ahmed – Khiran</b>
<b>520,000</b>	<b>612,000</b>	<b>600,000</b>	<b>2004</b>	<b>Sulibiya</b>
<b>175,000</b>	<b>180,000</b>	<b>180,000</b>	<b>2011</b>	<b>Kabbed</b>
<b>1,011,500 (222,530,000) Gallon</b>	<b>1,114,500 (245,190,000) Gallon</b>	<b>-</b>	<b>-</b>	<b>Total</b>

# Sulaibiya WWTP - BOT



The largest WWTP in the world that use the reverse osmosis technology the maximum capacity after expansion is 600,000 m<sup>3</sup>/day it produce now 520,000m<sup>3</sup>/day.



# Rikka WWTP



Rikka WWTP produce treated water of 280,000m<sup>3</sup>/day by using sand filters.

# Kabbed WWTP



- Kabbed WWTP have a capacity of 180,000 m<sup>3</sup>/day it will be expanded to 270,000 m<sup>3</sup>/d it produce a tertiary treated water of 175,000 m<sup>3</sup>/day by using disc filters.

# Umm Al Hayman plant - PPP



- Under construction
- Design Capacity 700,000 m<sup>3</sup>/d
- Advanced treatment technology – DF & UF
- Power sludge generation

# End Users



# Future Projects

- North Kabbed Waste Water Treatment Plant capacity of 1,000,000 m<sup>3</sup>/day ➤
- Al Metlaa Waste Water Treatment Plant capacity of 450,000 m<sup>3</sup>/day ➤
- Alshidadyah Pumping Station capacity of 400,000m<sup>3</sup>/day ➤
- Al-wafra Waste Water Treatment Plant capacity of 60,000 m<sup>3</sup>/day ➤
- Centralized Sludge Treatment 300 Ton per Day ➤
- Deep Tunnel project to receive all use water and treated in waste water treatment plant south Kuwait ➤
- Expansion of Existing Kabbed Waste Water Treatment plant to be 270,000 m<sup>3</sup>/day in capacity. ➤
- Al-Shadadiya pumping station project with capacity 450,000 m<sup>3</sup>/d ➤