



Yanbu Royal Commission, Saudi Arabia

The Yanbu Royal Commission Uses Rain Bird® Solutions to Improve & Streamline Water Conservation Efforts

Yanbu City is one of the largest industrial cities in the Western Province of Saudi Arabia (KSA). The city is undergoing residential development which includes replacing old irrigation systems with new networks of Sub-Surface Dripline irrigation.

THE CHALLENGE:

Yanbu City is on the coast of the Red Sea and pays a high cost for sourced irrigation water. For this reason, the Yanbu Royal Commission places high priority on water conservation. With hot temperatures and windy conditions most of the year, ongoing maintenance of overhead irrigation is a challenge. The city is also concerned with managing run-off from walkways and roadways that could cause car accidents or threaten pedestrian safety.

THE SOLUTION:

To address water conservation and environmental challenges, Yanbu City will install a highly efficient sub-surface irrigation system utilizing innovative Rain Bird dripline and market-leading valves. This will result in a sustainable, low-maintenance system that will help reduce water use and prioritize residents' safety by preventing wasteful, dangerous runoff.



XFS Subsurface Dripline with
Copper Shield™ Technology

Core Products Used:

- XFS Subsurface Dripline with Copper Shield™ Technology
- VB Series Valve Boxes
- PESB-R Series Valves

KEY OBJECTIVES:

- ✓ **Increase Efficiency**
- ✓ **Conserve Water**
- ✓ **Minimize Costs**



Site Report: **Yanbu Royal Commission, Saudi Arabia**

The Yanbu Royal Commission Uses Rain Bird® Solutions to Improve & Streamline Water Conservation Efforts

APPROACH:

Go Underground

Install Rain Bird's XFS Sub-Surface Dripline with Copper Shield™ technology to deliver water at or near the root zone, eliminating water loss caused by overspray, runoff, windy conditions, and evaporation. Made of proprietary tubing material, the XFS Sub-Surface Dripline is the most flexible tubing in the industry, and will be easy to install in public parks, roadways, highways, street medians, and slopes.

Rely on Reclaimed Water

To make the most of limited water resources, the sub-surface irrigation system will feature PESB-R Series reclaimed water irrigation valves. These clog-resistant valves provide long-lasting, efficient performance thanks to a self-scrubbing mechanism that keeps grit and plant material from blocking flow.



“ Using Rain Bird XFS helped us reduce our water consumption and solved the water run-off issues.

ENG. SALEH A. AL-ZAHRANI
DIRECTOR, LANDSCAPING & IRRIGATION DEPARTMENT
ROYAL COMMISSION FOR JUBAIL AND YANBU



RESULTS:

Maximum Efficiency with Minimal Costs

With the help of Rain Bird products, the Yanbu Royal Commission was able to improve water conservation efforts and reduce associated maintenance costs and requirements. Thanks to the system's compatibility with reclaimed water, Yanbu City can lower operational costs and leverage greater water savings. By applying water directly to the root zone, dripline irrigation has helped prevent runoff, limit overspray, and protect residents throughout the city.