



Case Study

Distillery

USA Distillers – water treatment plant



Problem Statement

The client was in need of a new water treatment plant to increase the capacity and storage of high-quality water that they can use for their boilers and other utilities. The feed water source is the river adjacent to their property, which is not of suitable quality.

Solution

Watericon designed, manufactured, installed, and commissioned a new fully automatic water treatment plant to treat the river water to an acceptable quality for the client’s boilers and other utilities. Watericon also provided training and follow-up support to ensure the success of the new plant. This solution included clarification, filtration, and Reverse Osmosis (RO). Watericon repurposed an old RO unit, which the client bought on auction from the USA, to local standards, helping the client benefit from additional savings.



Savings

The client has seen savings in water usage of the boilers due to longer cycle times as well as a decrease in maintenance cost, due to the high-quality water from the plant.



Performance Target

Consistently produce 60m³/h of high-quality reverse osmosis water to the product tank, and have a redundancy capability of an additional 30m³/h.



Process

This solution includes clarification with flocculant dosing, sand filtration, and reverse osmosis.



Innovation

This project made use of Watericon’s in-house clarifier design. Watericon Group’s chemical brand, Hydrance, was used for the full range of chemicals on site, which included antiscalant, non-oxidising biocide, and flocculant variants.



To: Watericon

RECOMMENDATION LETTER FOR DESIGN AND CONSTRUCTING WATER TREATMENT PLANT

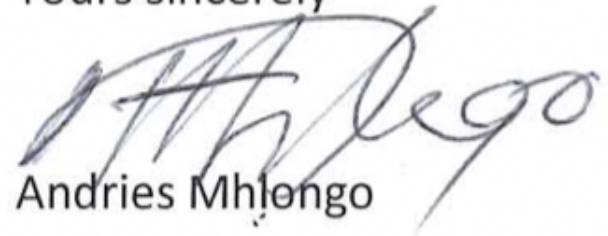
On behalf of the USA Distillers management, we would like to extend our appreciation for the amazing work done by Watericon on design and constructing new Water Treatment Plant (Project EP037). The endless hours that you have spent working on this project and the professionalism that you have portrayed has impressed the entire team immensely and we deem ourselves honored to have awarded you this contract

Watericon has executed this contract professionally

- Site scheduling and construction quality have been excellent
- Project completed without any injury recorded
- Construction was completed on time within budget
- Paperwork has been processed expeditiously, with accuracy and well documented
- Communication has been prompt and well documented

USA Distillers have no hesitation in recommending Watericon for similar work in the future.

Yours sincerely



Andries Mhlongo

Energy Supply Manager

07/12/2022

