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Water Reuse and Recycle

With the world trying to deal with a fixed quantity of deteriorating quality water, challenges are significant and daunting. The increasing global population, combined with higher quality requirements and stricter regulations, have underscored the concept of wastewater recovery and reuse.

Regardless of the water source – rainwater, stormwater, municipal sewage or manufacturing/processing wastewater, technologies are now available to collect, treat and reuse this water for virtually any application, including potable uses.

This presentation will investigate these sources of water, address the quality characteristics of each, and detail the treatment technologies dictated by the source quality and appropriate for the range of treated water uses.

Testing requirements will be described and system designs discussed in detail.

This presentation is intended for the engineer charged with reclaiming water and directing his plant towards “zero liquid discharge”. It is appropriate for the manager who wishes to create an environment of water conservation, as well as the developer trying to reuse water in residential construction.

The attendee will learn to relate the quality differences in source water to treatment technology requirements, and the effect of these technologies on the final water quality. He/she will learn the testing needed, and system design details required to create the optimum water reuse system.