

South Bay Water Reclamation Plant Treatment Process

Sewer drains carry wastewater from our homes and businesses to the treatment plant.

BAR SCREEN

The wastewater is first sent through a screen that collects and removes large debris.

GRIT CHAMBER

In the grit chamber heavy debris, such as sand, settle to the bottom of the tank where it is removed.

DEBRIS

PRIMARY CLARIFIER

In primary treatment, heavy particles such as dirt sink to the bottom of large tanks and are removed.

OXYGEN

AERATION TANKS

In the aeration tanks, wastewater is mixed with oxygen to create an environment for bacteria to decompose organic pollutants.

TO SEWERS

SECONDARY CLARIFIER

During the secondary treatment phase, bacteria is added to organically rid the water of harmful pollutants. The remaining waste is removed as sludge for reuse as fertilizer.

TERTIARY FILTERS

Then the water trickles through anthracite coal filters to remove remaining wastes.

UV DISINFECTION

At this stage, filtered water is disinfected with ultraviolet light to kill any remaining bacteria.

The water is recycled for use in irrigation and industrial uses.

