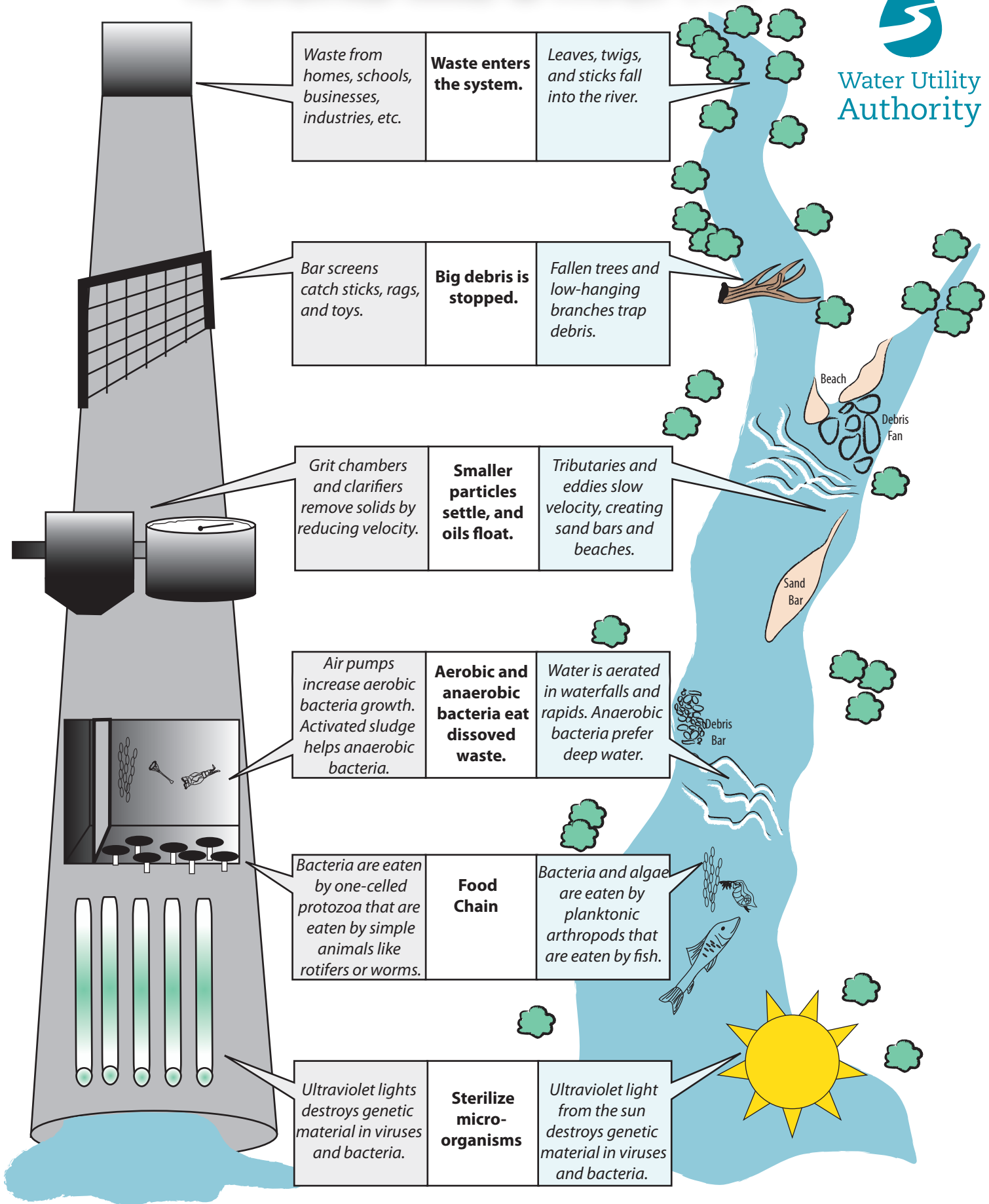


It works like a river ...



Water Utility Authority



Waste from homes, schools, businesses, industries, etc.	Waste enters the system.	Leaves, twigs, and sticks fall into the river.
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Bar screens catch sticks, rags, and toys.	Big debris is stopped.	Fallen trees and low-hanging branches trap debris.
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Grit chambers and clarifiers remove solids by reducing velocity.	Smaller particles settle, and oils float.	Tributaries and eddies slow velocity, creating sand bars and beaches.
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Air pumps increase aerobic bacteria growth. Activated sludge helps anaerobic bacteria.	Aerobic and anaerobic bacteria eat dissolved waste.	Water is aerated in waterfalls and rapids. Anaerobic bacteria prefer deep water.
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Bacteria are eaten by one-celled protozoa that are eaten by simple animals like rotifers or worms.	Food Chain	Bacteria and algae are eaten by planktonic arthropods that are eaten by fish.
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Ultraviolet lights destroys genetic material in viruses and bacteria.	Sterilize micro-organisms	Ultraviolet light from the sun destroys genetic material in viruses and bacteria.
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