

Wastewater Treatment & Recycling

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Operations and
Maintenance

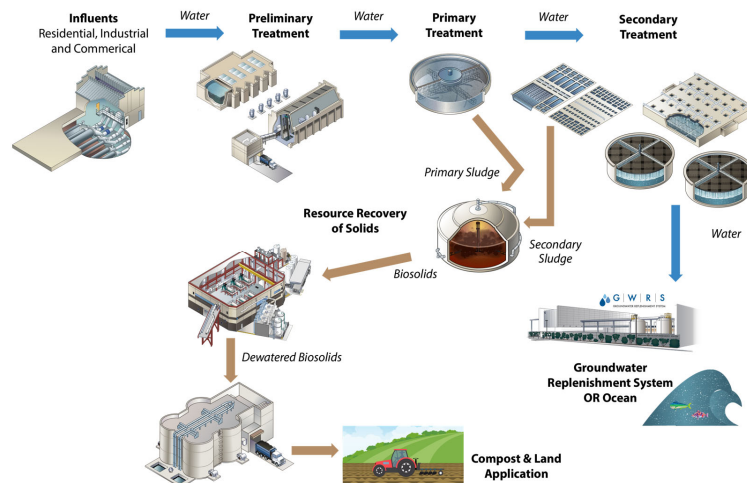
Operations
Committee Meeting

March 1, 2023

OC SAN
ORANGE COUNTY SANITATION DISTRICT

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Plant Process Overview



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Metering and Diversion Structure



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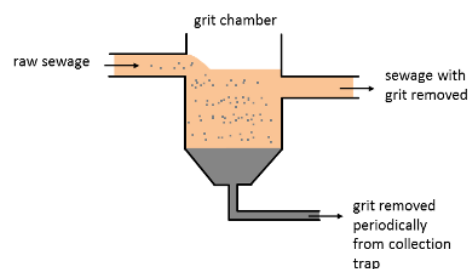
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Preliminary Treatment

Barscreen



Grit Chamber



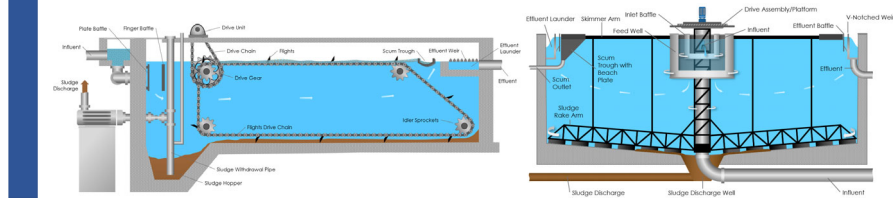
Grit is mostly inorganic material like sand, gravel, and eggshells.

Grit is very abrasive and heavy. It clogs flow channels and digesters and wears out pumps.

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Primary Treatment

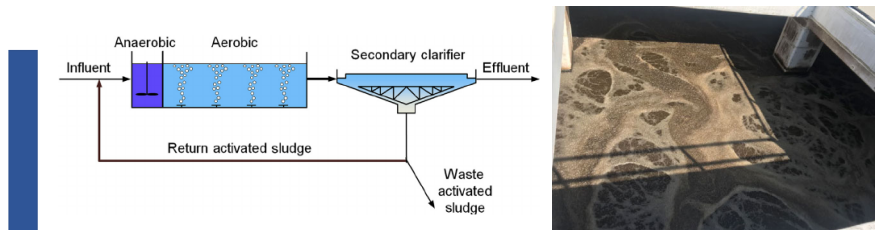


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Secondary Treatment

Activated Sludge Process



Trickling Filter
at Plant No. 1



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Effectiveness of Water Treatment

Raw Sewage



Primary Treated Effluent



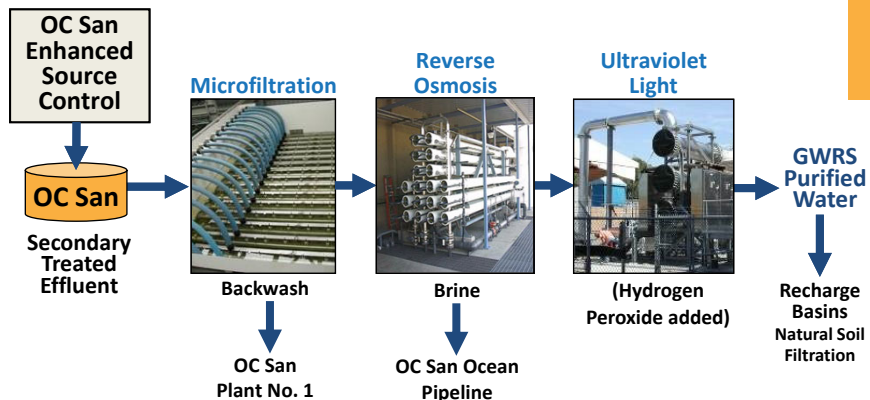
Secondary Treated Effluent



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GWR System Flow Diagram



- Plant 1 and 2 recyclable flow provided to GWRs creates 130 million gallons daily of drinkable water.
- Accounts for approximately 40% of local drinking water supply.

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Non-Reclaimable Flow



Plant No. 2 Aerial View

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Solids Recovery Process

Anaerobic Digester



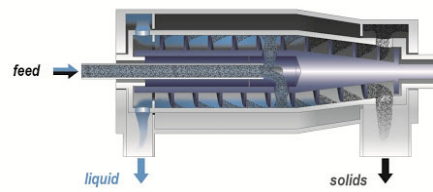
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Dewatering Operation



Centrifuge System
at Plant No. 1



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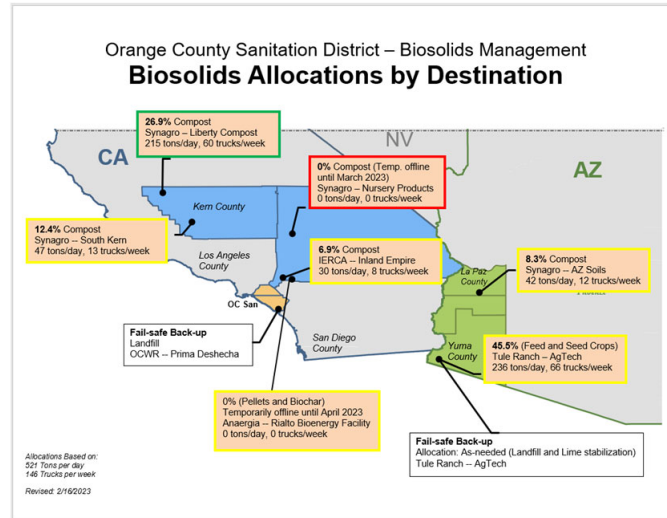
Truckloading



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Biosolids Reuse



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Central Generation Engines

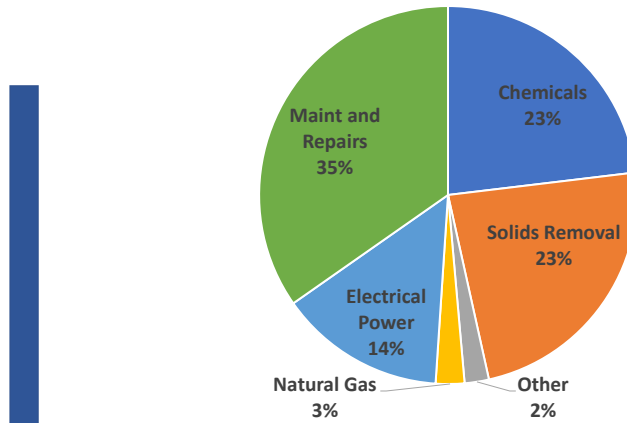


Plant No. 2 Central Generation Engines

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Operating Budget Expenses



Fiscal Year 2022-2023

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Questions



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