

# Wastewater Treatment Process

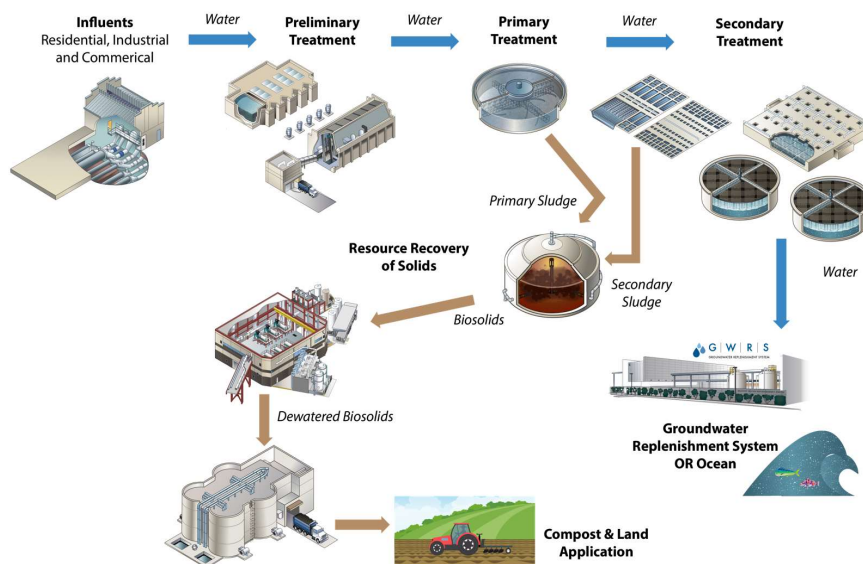
Presented by:  
**Jon Bradley**  
*Operations Manager*

Administration Committee  
 May 14, 2025

**OC SAN**  
 ORANGE COUNTY SANITATION DISTRICT

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## Plant Process Overview



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## Metering & Diversion Structure



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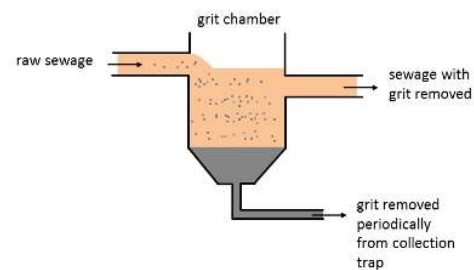
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## Preliminary Treatment

**Barscreen**



**Grit Chamber**

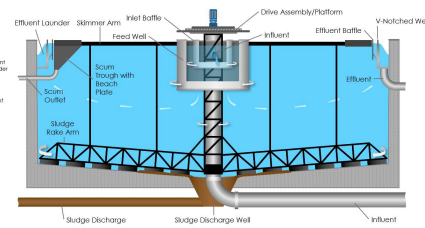
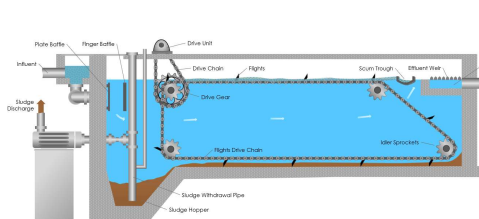


- Grit is mostly inorganic material (i.e. sand, gravel, eggshells)
- Grit is very abrasive and heavy. It clogs flow channels, digesters and wears out pumps.

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# Primary Treatment

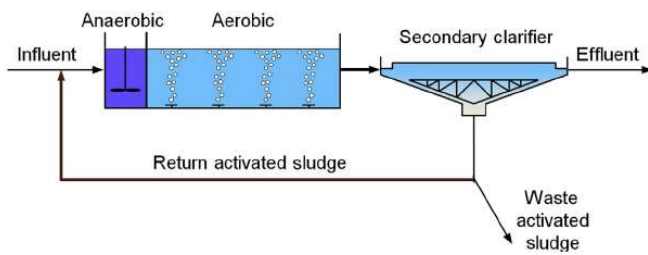


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# Secondary Treatment

## Activated Sludge Process



## Trickling Filter Process



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## Solids Removal During Treatment



Raw Sewage



Primary Treated Effluent



Secondary Treated Effluent

OCWD



Purification  
(GWRS Final Effluent)

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## Solids Recovery Process

### Anaerobic Digestion



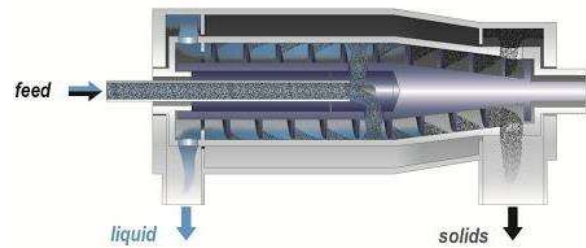
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## Dewatering Operation



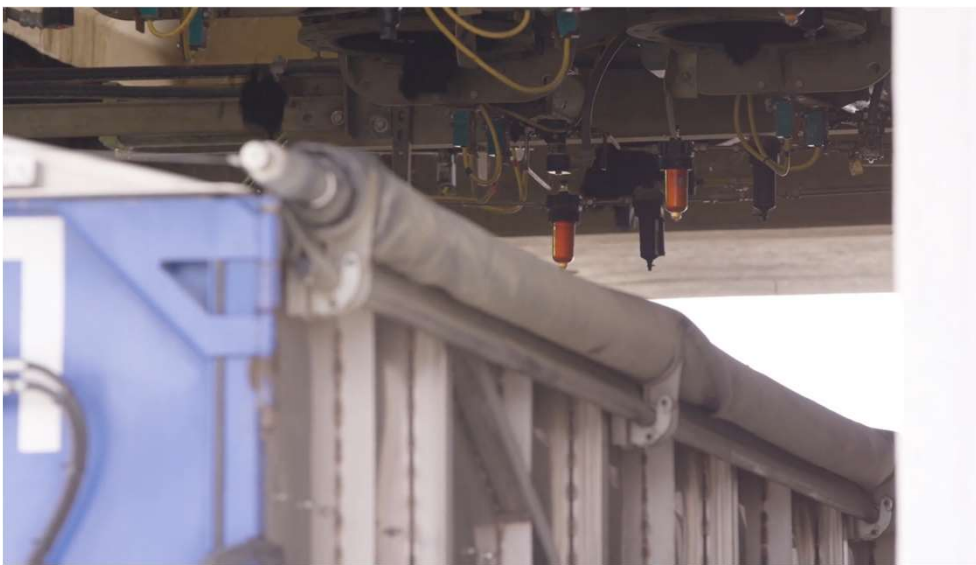
Centrifuge System at Plant No. 1



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## Truck Loading



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## BIOGAS



Heat &  
Electricity

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# Questions?

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