

Sessil Trickling Filter

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Left: Sessil trickling filter at JBB with custom colored paneling to match the existing facility. **Above:** Motorized galvanized rotary distributor for even distribution of the wastewater onto the Sessil media.

Sessil Trickling Filter Information

Media: Sessil 150 with 45 ft²/ft³ surface area

Dimensions: 32 ft diameter x 26 ft bed depth, 20,900 ft³

Design Conditions:

Forward Flow: 200,000 gpd

Recycle Flow: 520 gpm

Influent BOD: 1,500 mg/l

Influent TSS: 400 mg/l

% BOD Removal: 80%

Upstream equipment:

None

Downstream equipment:

Aerated lagoons

Year Built: 2003

Notes: Since starting up the Sessil trickling filter, WWTP operators have reported DO readings over 2.0mg/l in the first lagoon following the trickling filter. Previously, DO could not be maintained in this lagoon due to the high organic loading. Final effluent BOD concentrations have been reduced

from 20-25 mg/l to less than 10 mg/l.



Four 2-speed tubeaxial fans were provided to ensure proper airflow was maintained through the Sessil media bed.