

Donax WRF Process Improvements Project

- The biological treatment process requires the correct mix of microorganisms, plus oxygen and food (raw wastewater with carbon compounds) to function as designed.
- Post lan, the raw wastewater is low in carbon, but carbon can be added at a cost. Operations staff is adding carbon to improve nitrogen removal.
- Carbon is not directly measured. Instead, Carbonaceous Biological Oxygen Demand (CBOD) is measured to determine carbon loading.
- Plant received 37,438 lbs. of CBOD in April 2024 and 69,004 lbs. in April 2021, which is a 45.7% decrease in carbon loading.
- City staff are re-inspecting Substantial Completion punch list items Contractor has completed.
- Plant is meeting permitted effluent standards

Regulatory Effluent Parameters

PARAMETER	PUBLIC ACCESS REUSE (DONAX PERMIT LIMIT)	ADVANCED WASTE TREATMENT GOALS	CURRENT PERFORMANCE (April 2024 Average)
CBOD	30 mg/L	5.0 mg/L	2.2 mg/L
TSS	5.0 mg/L	5.0 mg/L	<1.0 mg/L
NITROGEN	12.0 mg/L	3.0 mg/L	3.6 mg/L (With Supplemental Carbon)
PHOSPHORUS	REPORT	1.0 mg/L	3.3 mg/L