



ROGUE

PUMP COMPANY®
A LIMITED LIABILITY COMPANY

CASE STUDY: Bio-system Feed Pump
LOCATION: Fruit Processing Facility
PROJECT: Wastewater Feed System
GOAL: Process Flow up to 50gpm
WORD KEYS: Biological Water Feed, Self-priming Trash Pump



FACILITY BACKGROUND

A little history taught Ryan's Hood River Juice Company management of wastewater would be key to their continued manufacturing of high quality juice products. Triple digit growth necessitated building a new facility on 6 acres of port property acquired for the purpose. And connecting to the POTW located a few hundred yards away brought its own advantages. The process goal for the design team was the efficient removal of BOD, TSS and other constituents (both suspended and dissolved) prior to discharge. All water from the plant fruit un-loading and manufacturing areas would be captured in a sump for treatment.



SOLUTION DESIGN

The continuously collected process water is pumped from the wet well sump into the 15,000 gallon EQ tank. The **MAX TRS™-200S** then sends the water to the biological treatment unit for removal of largely dissolved impurities. The pump was positioned directly next to the EQ tank and the piped vertical distance is 10 feet. The pumps compact design allowed it to fit in the small space available. From the bio system a DAF provides final clarification and the bio-solids are pumped to a holding tank for later hauling. The entire system can move water via gravity once it is initially pumped from the EQ tank by the **MAX TRS™-200S**. This helps reduce the carbon footprint by limiting energy consumption. The whole system is located in a special room behind the maintenance shop for easy periodic access. The crew noted that the pump has not clogged once since put into service.



FINAL RESULTS

RPC shipped the pump for delivery from the factory in Washington State USA. The maintenance crew installed the Rogue **MAX TRS™-200S** pump. The pump produced great results upon start-up. The Rogue **MAX TRS™-200S** pump passed insoluble solids and effectively kept up with the plant discharge.



PAY-OFF

Owner David Ryan is pleased with the new wastewater treatment system. Waters discharged to the city POTW meet stringent permit requirements. Ryan's Hood River Juice's **Green** clean water efforts have taken a big step forward and they are especially pleased to help the environment.

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