Case Study: Hood River Juice Company

A little history taught Hood River Juice Company management 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 and treated.

Biological & DAF Design
The HRJ wastewater team met with the city and presented a complete package. The system included EQ tank components, LCM aerobic biological treatment, a new PEWE Poly-E 2 TM DAF and two PolyAccu DoseTM stations for both flocculent and nutrient feeds. PEWE rounded out the system with a centrally located and free-standing integrated Command Control TM PLC panel. Process water is collected continuously in the EQ tank and then enters the LCM aerobic biological unit for removal of largely dissolved impurities.
The soluble organics were readily metabolized by the developing bacteria colony. The flow proportional chemical system efficiently dosed the proper amount. And the all welded polypropylene PEWE Poly-E 2 TM DAF proved efficient and easy to maintain by operational staff. Owner David Ryan is pleased with the new wastewater treatment system. Waters discharged to the city POTW meet stringent permit requirements. Hood River Juice’s Green clean water efforts have taken a big step forward and they are especially pleased to help the local environment.

The DAF provides final clarification. Bio-solids are pumped to a holding tank for later wet hauling. The entire system can move water via gravity once it is initially pumped to the EQ tank. 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 cleaning and access.

**Final Results**

Building a completely new manufacturing facility was not an overnight process. Doing things right takes time. PEWE had the system delivered and installation support on site for commissioning. Upon start-up the water flowed and the two new blowers brought life sustaining dissolved oxygen to the aerobic biological unit.