

Case Study

MAZZEI AIRJECTION[®] SYSTEM SOLVES ODOR & NUTRIENT PROBLEMS FOR CALIFORNIA CARROT PACKING PLANT.

The Problem: A carrot packing plant was having severe odor problems due to septic conditions in their truck washout water holding lagoon. In addition, nutrient & nitrogen levels were becoming an issue for land application of the wastewater for crop production.

The Solution: The plant wastewater manager chose a Mazzei AirJection[®] System consisting of 24 Model 4091 (4" Kynar) Mazzei[®] Injectors, each operating two N45 Mazzei Multiplier[™] Nozzles. In order to get the system operating quickly, two portable diesel powered pumps were employed to pump lagoon water through the AirJection[®] System.

The Results: The AirJection[®] System was placed in operation in mid September, 2001. Within 2-1/2 weeks of start-up, the lagoon which had been completely septic, black and very odorous, turned aerobic and brown. Objectionable odors were completely eliminated. The lagoon was operated odor-free though the winter of 2001-2002. Significant reductions in BOD and nitrogen loading of the lagoon were observed. The decrease in total nitrogen will, in particular, facilitate land application of the wastewater while remaining within regulatory constraints. Based upon these results, a permanent system is now under construction.

