

Macawber Installation Case Study: **Silica Sand – Oregon, USA**

IN BRIEF

The customer in Tualatin, Oregon relied on Macawber in 1983 to replace an existing pneumatic sand conveying system. The existing system was not only wearing out pipelines rapidly but also causing severe degradation to the sand. Macawber's Sandpump® installation provided years of pipeline life. The customer subsequently purchased systems in 1984 and 1985.

MATERIAL CHARACTERISTICS

Material	Silica Sand
Bulk Density	95 lbs./cu.ft
Temperature	Ambient
Moisture Content	0%
Condition	Dry, Free Flowing, Highly Abrasive

SYSTEM OBJECTIVES

1. Prevent excessive pipe wear
2. Reduce degradation of the sand
3. Reliable, low maintenance operation

SYSTEM PERFORMANCE

Transfer Capacity	12 T/hr per system (3 systems)
Conveying Distance	150ft
Reception Points	One (1) per system

IMPROVEMENTS ACHIEVED

1. Pipe wear dramatically reduced
2. Degradation of the sand was virtually eliminated

