

THE CHALLENGE

A mobile home community relied on a conventional sewage lagoon, which couldn't support additional residents. Expanding the lagoon would consume valuable land, raise costs, and create more regulatory requirements. Conventional pump stations were also impractical, requiring long-distance pumping and struggling with solids-laden wastewater.

THE SOLUTION

Our Application Expert selected the E/One WH484 four-pump pre-packaged submersible grinder pump station, a compact system designed for low-flow, high-head solids-laden wastewater. Its integrated pumps, controls, and level-sensing simplify installation and maintenance while delivering reliable, consistent flow.

THE RESULTS

- **Cost Savings:** Lowered overall project costs as lagoon expansion was not required.
- **Minimal Disruption:** Small-diameter piping reduced excavation and ground disturbance.
- **Easy Installation:** The pre-packaged, fully engineered system allowed for quick, straightforward setup.

For more information on pump solutions for your unique mining operation, [contact John Brooks](#)



Case Study

Mobile Home Community Expands Capacity with E/One Low-Pressure System

Technology Utilized

- The E/One WH484 four-pump pre-packaged submersible station houses four Extreme Series grinder pumps in an open wet-well tank. Pumps, motor controls, and level-sensing are integrated into a compact, easily serviceable unit.

How It Works

- An E-one grinder pump system is installed at each property and receives gravity-fed wastewater.
- The solids are ground to a slurry and enter a semi-positive displacement Progressive Cavity pump.
- The slurry allows for small diameter discharge piping to be utilized, as small as 1 1/4".
- Because the wastewater is pressurized, it can be pumped up to 1 mile horizontally or 185 feet vertically.

