

Delores Beyersdorf, Benton City, WA

Vortex Generator Water Treatment — On-Farm and Household Water Systems

Delores Beyersdorf	Benton City, WA (Yakima Valley)	8-acre diversified farm: fruit, grapes, berries, vegetables, 2 greenhouses, pasture/livestock	Yakima River (irrigation) and private well (house/livestock)
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Overview

Delores Beyersdorf, a longtime customer of Creative Ag Products/Uncle Jimmy's Garden Group, operates an eight-acre diversified farm in Benton City, WA, irrigated from two very different sources: the Yakima River and an on-site well. Despite consistent use of natural, chemical-free inputs, her crops and livestock systems were still showing signs of stress mid-season — traced back to contamination and poor water quality carried in from both sources. President Water installed a 4-inch vortex generator on the farm's river-fed irrigation line and a second unit on the household well line to test whether vortexing could mitigate the effects of that contamination.

The Challenge

- **Contaminated Yakima River water** — river water arriving from an agricultural region with largely conventional (chemical-based) farming, plus documented upstream sewage incidents.
- **Persistent quality issues** — livestock troughs, hard/compacted soil, slow composting, and a black scummy buildup on greenhouse soil despite proper soil testing and beneficial-microbe use.
- **High weed pressure** — heavy water-grass and weed growth that was difficult to remove.
- **Crop stress symptoms** — brown leaf edges on strawberries (calcium uptake issues) and leaf damage on outdoor bean plants.
- **Household water problems** — despite a "pretty good" well, buildup inside heavy-wall PVC piping, dingy/stiff laundry, and hard-to-remove water spots.

Key Outcomes & Benefits

Rapid, Farm-Wide Improvement

- **Soil condition** — soil softened and became easier to work within 2 days of switching to vortexed irrigation water.
- **Weed & alfalfa response** — weeds pulled out easily and regrew visibly weaker; alfalfa showed improvement almost immediately after fertilizing with vortex-treated water.
- **Strawberry calcium uptake resolved** — strawberry leaves went from chronic brown-edge calcium deficiency to "perfect," healthy, glossy green.
- **Bean plant recovery** — brown, damaged bean leaves recovered to fresh, vigorous green growth within days of treatment.
- **Pasture quality** — pasture appeared even and "manicured" within about a week, with less water used for comparable or better production.
- **Composting normalized** — previously frustrated composting process normalized after installation.
- **Greenhouse soil** — a persistent black, scummy greenhouse soil issue cleared within 36–48 hours of treatment.
- **Improved tilth** — tilled soil that was compacted before treatment turned to fine, workable granules — setting up strong expectations for the coming potato crop (six varieties grown).

Cleaner Water, Less Maintenance

- **Livestock water clarity** — troughs that previously turned murky with algae within two hours stayed crystal clear for weeks with no algae regrowth.
- **PVC pipe buildup cleared** — three days after installing the household unit, years of internal buildup cleared and water ran "pristine" and sparkling.
- **Laundry quality restored** — persistent dinginess and stiffness in laundry resolved after a few washes; towels became soft and white without heavy bleach or hydrogen peroxide use.
- **Reduced cleaning effort** — faucets, toilets, and fixtures required less scrubbing and no longer showed water spots.
- **Household observations** — milk stored longer in the refrigerator, an early indicator of broader water-quality benefits to the household.

Protecting Natural Inputs & Long-Term Investment

- **Beneficial microbes preserved** — with cleaner water, beneficial microbes and natural soil inputs stopped being destroyed by residual contaminants, protecting the value of ongoing organic practices.
- **Root health & future yield potential** — healthier root development is expected to translate into stronger yields for high-value crops (potatoes, greenhouse starts) in the coming season.
- **Confidence to expand** — after seeing results on the farm line, the household unit was installed immediately, with plans to continue expanding coverage across the property.

In Her Own Words

"Within two days of changing the water, the texture of the soil was softer... that was amazing. The weeds that regrew after that seemed very, very weak and wimpy."

"I was totally horrified when it started working... on the third day I went out and the water was so pristine and so clear that it actually sparkled."

Conclusion

In under two months, vortex generators applied to two chemically-compromised water sources — a heavily impacted river and a previously "trusted" well — delivered fast, visible improvements across soil health, crop recovery, livestock water quality, and household water use. The case illustrates a core value proposition for President Water: natural inputs and organic practices can only perform as well as the water carrying them, and vortex treatment can restore water's ability to support healthy biological systems on both the farm and in the home.

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