



January 13, 2015

Harold Curtis, President  
Global Opportunities, Inc.  
2804 SW 130th Street  
Oklahoma, OK 73170

Dear Harold,

I'm writing today to summarize our experience and use of the variable flow rate, square-pattern spray nozzle that we manufacture through a license from Global Opportunities. For the past four years, Orenco has been using the nozzle for distribution of filtered wastewater within our fiberglass treatment modules. To date, we have approximately 15,000 nozzles installed in the field with excellent results. I am not aware of any nozzle failures due to wear. This nozzle provides a square spray pattern with an exceptionally even distribution compared to any other non-clog type nozzle that I'm aware of. The nozzle is able to pass small solids without clogging. Because we are passing untreated (but rough-filtered) wastewater through the nozzle, we do see biological growth that needs to be cleaned off occasionally. This cleaning is done at the same time the system gets its regularly scheduled (annual for residential wastewater) maintenance, and only takes seconds per nozzle.

We also ran in-house testing with plain water in 2010 and early 2011 while we were piloting nozzles in the field on actual operating wastewater systems. We ran several sets of nozzles continuously at pressures from 3 to 8 psi for 120 days with no signs of wear or degradation of the spray pattern. When using non-potable water, as opposed to untreated wastewater, I would not expect the biological growth that we see with wastewater. We are extremely pleased with the nozzle and expect them to last for many years in the field.

Best regards,

A handwritten signature in black ink that reads "Eric S Ball".

Eric S Ball, PE  
VP Product Development

*Changing the Way the World Does Wastewater®*