

# From The Aqua Smart Inc. Files

## PIPE CORROSION REMOVAL WITH SEAQUEST

Case # 302 – Brunswick, GA – 2009 Through 2011  
(Total Hardness 195 PPM; Fe 0.12; Mn 0.09; 4.5 MGD)

### MAY, 2009

The Dead End Pipe on the right in Brunswick, GA was about 50 – 60 years old in 2009. **The City of Brunswick, GA had been using several phosphate blends over a 15 year period without any noticeable changes.** The hole in this 4" Pipe was reduced down to approximately a  $\frac{3}{4}$ " (three quarter inch) opening. The Gallon Per Minute (GPM) Flow Rate was down to about 40 – 50 GPM. Red Water Complaints at this Dead End Pipe area were at 24 that year. Chlorine was fed at the Plant at 1.2 PPM and the Chlorine Residual was at 0.35 PPM. Because of the poor results of other products, the City of Brunswick, GA decided to try different, SeaQuest.



### MAY, 2011

In May of 2011, 2 years after they put SeaQuest into their system, Brunswick pulled out the Dead End Pipe for another inspection and noticed that corrosion was now dramatically removed in the Pipe. The hole in this Pipe increased to approximately 2" (two inches). The GPM Flow Rate increased to 150 – 200 Gallons Per Minute and Red Water Complaints went down to 0 (zero)! Chlorine is now being fed at the Plant at 0.80 PPM and the Chlorine Residual remains stable at an incredible 0.75 PPM.

#### THE RESULTS FROM USING SEAQUEST:

1. Pipe Opening from  $\frac{3}{4}$ " To 2" (167% Increase)
2. Chlorine Usage From 1.2 PPM Down To 0.80 PPM (33% Less Chlorine Usage)

### The 4" Dead End Pipe in Brunswick, GA



### MAY, 2010

In May of 2010, 1 year after they put SeaQuest into their system, Brunswick pulled out the Dead End Pipe for inspection and noticed that corrosion was being removed inside of the Pipe. They were getting real cleanout with an increase of flow and chlorine residuals. The hole in this Pipe was now increased to approximately a  $1\frac{1}{4}$ " (one and a quarter inch) opening. The Gallon Per Minute Flow Rate increased and Red Water Complaints went down to from 24 the year before to only 2 complaints.



3. Chlorine PPM Residual Of 0.35 Up To 0.75 (114% Increase)
4. GPM From 40 – 50 Up To 150 – 200 GPM (400% Increase)
5. Customer Complaints From 24 To 0 (100% Reduction)