



## Bush Beans Case Study

**Customer:** Bush Beans

**Category:** Food Production and Processing

**Application:** Steam Boiler



US Case Study



Boiler Tubes (before)



6" Colloid-A-Tron installation



View inside the water drum (after)

**The Challenge:** Bush Beans were experiencing significant scale accumulation on their fire tube steam boiler despite the use of scale inhibiting chemicals. Bush Beans adhere to a strict blow down schedule as part of their planned maintenance program.

Bush Beans had to take their boiler offline every 6 to 12 months in order to inspect and descale the water drum and tubes.

Bush Beans were looking for a chemical free alternative for scale prevention that would not require maintenance or take up additional space in the boiler room.

**The Solution:** Fluid Dynamics were called in and having assessed the system recommended the installation of a 6" Colloid-A-Tron on the main feed to the boiler.

**Results:** Following the installation, the boiler was opened up for inspection 6 months later. The reduction of scale was very apparent, any scale that was present was soft and easily washed away without the use of chemicals whereas in the past chemicals and mechanical methods (chipping hammers etc.) had to be used to remove a hard scale accumulation. Bush Beans are delighted with the reduction in maintenance and associated down time. As expected, energy costs are down due to the savings associated with operating a scale free system.

**\*\* Note:** Installation without prior FD assessment could void equipment warranty and FD will accept no liability for any problems resulting from such an installation.

