



CASE STUDY

CUSTOMER

GUN POWDER MANUFACTURER

LOCATION

KINGSPORT, TN USA / FEB 2010

EQUIPMENT

PROCESS WATER SYSTEM

APPLICATION

PROCESS WATER

PROVEN RESULTS

IMPROVED WATER QUALITY TO MEET MUNICIPAL STANDARDS

CHALLENGE

Improve the quality of facility process water to meet municipal standards. This facility uses municipal water in the manufacturing of its gun powder. String filters were ineffective in removing the contamination caused by corrosion of the facilities' carbon-steel piping and systems. The rust contamination resulted in the facility process water failing to meet municipal water quality standards.

SOLUTION

Install an OEI stainless-steel, high flow filtration system combining stainless cloth media filters and OEI patented magnetic filters. This system is capable of handling 450 gpm of water and was installed after the traditional string wound filter system.

RESULTS

The photos show contamination collected after 2 weeks of operation. The lead Process Chemical Engineer determined the test successful because the facility water now meets municipal water quality standards. The company has since installed multiple OEI filters throughout the facility.



CONTAMINATION CAPTURED BY THE MAGNETIC FILTER ELEMENT



CONTAMINANTS CAPTURED BY THE STAINLESS-STEEL CLOTH ELEMENT



PRODUCT RECOMMENDATION
ADD-VANTAGE 9000 VS STAINLESS STEEL FILTER SKID

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