



FilterBoxx™
Water & Environmental Corp.

FilterBoxx Packaged Water Solutions Large Conventional Oil & Natural Gas Producer

Water Softening System for Pilot ASP Flood Application

TECHNICAL SUPPORT

Our service technicians are on-call 24 hours per day, 365 days per year

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In 2010-2011, FilterBoxx fabricated a water softening system for large conventional oil and natural gas producer in Coleville, Saskatchewan. The customer required the treatment system to produce soft water that they could use for their planned alkaline, surfactant and polymer (ASP) flood pilot. The purpose of the pilot is to prove that an ASP flood would increase the oil recovery from the Bakken reservoir, and it is hoped to implement a much larger commercial-scale project if the pilot proves to be successful.

FilterBoxx provided a 940 m³/day “turn-key” fully automated containerized water treatment plant, including design, fabrication, shop assembly, inspection, testing, shipping, commissioning and start-up assistance.

The water treatment package is designed to remove hardness and iron to meet the required treated water effluent quality, and the system is rated to provide the water required for ASP injection and additional volumes necessary for backwashing and regeneration of the softeners.

The plant has been operating since March 2011 with minimal operator intervention. The plant has demonstrated its ability to provide the desired effluent at a recovery rate of 98%, saving significant water losses and costs for the client.

Raw Water Source	Belly River Well
Design Capacity	200-940 m ³ /day
Design Water Temperature	5-10 degrees C
Design Inlet Hardness	6.4 - 8.9 mg/L as CaCO ₃
Design Inlet Iron	< 0.05 mg/L
Design Inlet TDS	1,110-1,310 mg/L
Treated Water Hardness	< 0.1 mg/L as CaCO ₃

“We are honored to have the confidence of our customers as they call on FilterBoxx to provide turnkey, high quality, reliable packaged treatment systems to support their pilot plants”
- Kevin Slough, President & CTO

