The Specialty Membrane Company

RIVER WATER FILTRATION

PRODUCT HIGHLIGHTS

- + *i*Sep™ 500-PVDF UF Elements
- + Avg. Feed Turbidity: 5-20 NTU
- + Turbidity Spikes: >300 NTU
- + Operating Flux: 30-40 gfd
- + Effluent Turbidity: <0.1 NTU
- + Enhanced coagulation capabiltiy
- + Pre-treatment: None

UF Features & Benefits

- + No air scour requirement
- + Open flow channel design
- + Frequent Draining
- + Backwashing Capabilities
- + High TSS handling
- + Durable construction
- + High effluent quality
- + Vacuum operation

RIVER DURING TURBIDITY SPIKE

*i*Sep 500 UF SYSTEM

*i*Sep UF ELEMENT

Rivers and surface waters provide a convenient and reliable water source for both municipal and industrial uses. A challenge with rivers in particular is the seasonal changes in water quality and turbidity spikes due to storm related events. Rainfall can easily spike river turbidities well above 300 NTU, posing a problem for any type of treatment technology.

*i*Sep 500 ultrafiltration membranes provide an ideal solution for providing high quality effluent on any river water source. The innovative low fouling design is able to withstand peak turbidity events without compromising performance (i.e. permeate flux) or effluent quality. The ability to withstand peak solids loading helps minimize costs for plant owners as the need for implementing system redundancy is eliminated.

In addition to turbidity spikes, river waters experience seasonal changes in water quality as microbial activity and organic loading can vary significantly. On rivers with high organic loading, the *i*Sep UF process can be used in conjunction with an enhanced coagulation process that improves both filterability and permeate quality. In an enhanced coagulation process, a small amount of coagulant is injected directly into the *i*Sep UF feed without the use of inline mixers or mixing tanks.

Delivering Customized Products to Solve Unmet Customer Needs

TriSep Corporation // 93 South La Patera, Goleta, CA 93117 USA // P: 805.964.8003 // www.trisep.com // sales@trisep.com

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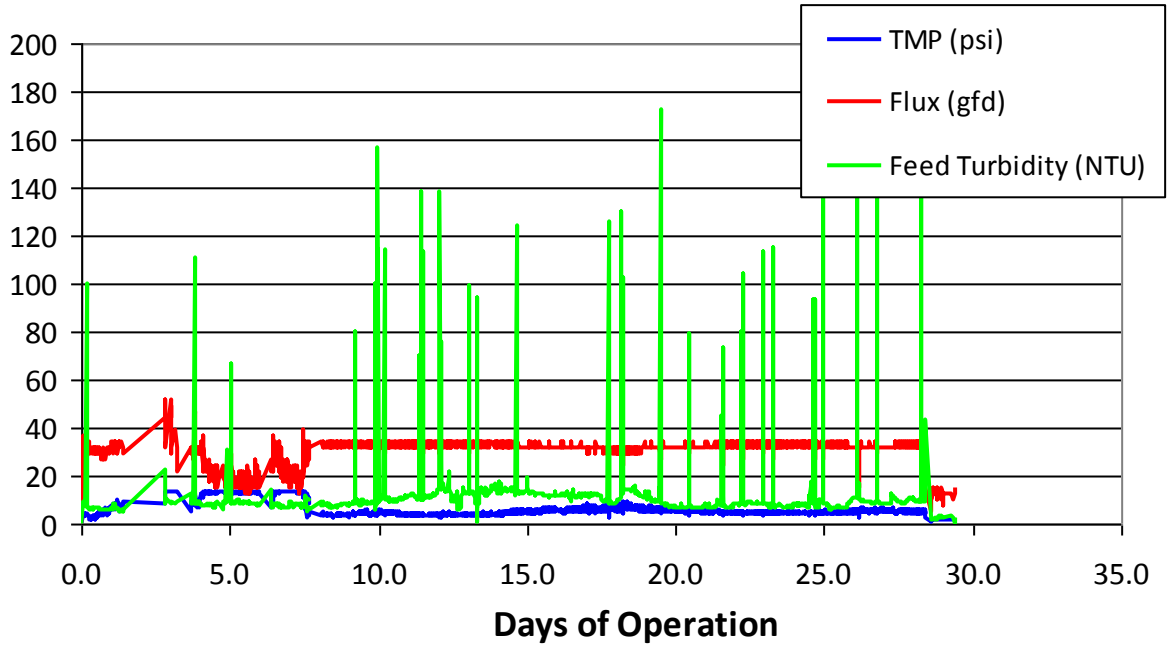
Case Study 1: RO pre-treatment for boiler make-up pilot study



Case Study 2: Drinking water pilot study