



SERVICE PROFILE

Filtration

Overview

At FourQuest Energy, we provide a wide range of fluid filtration services, from ensuring large particulate is filtered out of testing water to providing reverse osmosis filtration for plant process water, as well as offering bag filtration, coalescing filters, and more. We also provide microscope particle analysis of filtered fluid to ensure that it meets the customer's cleanliness standards; common standards that we work to include ISO 4406 and NAS 1638.

The main purposes of filtration services include:

- > Equipment protection (coarse particle removal and filtration)
- > Safe start up (amine, glycol, boiler feed water foaming prevention)

- > Process requirement (oil removal from fluids)
- > Environmental Regulations (post-test fluid disposal)

Micron Table

0.001	0.01	0.1	1.0	10.0	100.0	1000.0
			Fog		Mists	Rain
	Smoke				Hair	
	Household Dust					
		Bacteria			Pollen	
Smog						
			Fly Ash			
	Cooking Smoke					
Virus						
		Fumes		Coal Dust		
Electron Microscope		Microscope				Visible by Human Eye
		0.5		20.0		



Visit our website for more Case Studies and Insights at:

fourquest.com/case-studies
fourquest.com/insights

Industry Applications for Particle Filtration:

- > Pre-commissioning, commissioning filtration, and flush (e.g., amine units, glycol systems, boiler feed water piping, condensate systems, variety of water systems, etc.)
- > Ensuring clean water before and after pipeline testing
- > Removal of trace amounts of petroleum-based products and particles
- > Meeting requirements for product cleanliness
- > Providing temporary filtration for system start-ups
- > Maintaining cleanliness of hydrotesting water

The FourQuest Energy reverse osmosis skid provides high quality water purification solutions. Reverse osmosis is used to ensure high water quality for boiler system startup.

Industry Applications for Reverse Osmosis Filtration:

- > Demineralizing water for boiler feed water applications
- > Providing ultra clean water for plant startup

Water contamination is one of the most common and one of the most damaging issues in a hydrocarbon fluid system. It can cause serious problems such as effecting system production processes by changing conductivity, increasing bacterial growth, and fouling equipment. FourQuest Energy coalescers are specifically designed for removal of emulsified water from hydrocarbons. Mechanical coalescers employ filter media to make droplets coalesce. This technology is ideal for separating hydrocarbons from water and vice versa.



Applications within the energy industry:

- > Oil removal from produced water.
- > Provide temporary solutions for oil-water systems
- > Trace contaminant removal from intermediate products in oil refineries



EDMONTON, AB

9304 39 Avenue Northwest
Edmonton, AB T6E 5T9
Office: +1 780-485-0690

CALGARY, AB

Suncor Energy Centre, West Tower
#5100, 150 6th Avenue, S.W.
Calgary, AB T2P 3Y7
Office: +1 403-538-2140

FORT MCMURRAY, AB

136 Macmillan Road
Fort McMurray, AB T9H 5L4
Office: +1 780-750-2829

FORT ST. JOHN, BC

Graywest Office Centre Ltd.
10704 97 Avenue
Fort St. John, BC V1J 6L7
Phone: +1 250-785-1706



Connect with us:



fourquest.com