



POTATO CHIP PLANT PROCESS WATER

Filtersafe Case Study



INDUSTRY

Industry

APPLICATION

Process Water

FILTERSAFE

- 30 years filtration experience
- 3000+ installations
- 10 microns upwards
- 50-9,000 m³/hr
- Modular filter technology

BACKGROUND & PROBLEM

A major multinational snack corporation was looking for a filtration solution for one of its plants in Mexico that produces potato chips. The process water contained high amounts of sand, suspended matter and organic fat that needed to be removed so the water could be reused.

FILTERSAFE SOLUTION

Combined Filtration and Separation. Filtersafe won the pilot project by offering a customized solution – a cascade filter that ensured downstream water quality.

- 1st Stage: SFT separation of fat/hydrocarbons & filtration >500 µm
- Buffer Tank
- 2nd Stage: FS filtration 100 µm
- Buffer Tank
- 3rd Stage: FS filtration 40 / 25 µm
- 4th Stage: SFT filtration 5 µm
- 5th Stage: SFT separation of fat/hydrocarbon emulsion

The material removed from the process by the filter was then utilized for animal food, adding additional value to the filtration process..

Application	Process Water	Micron	25 µm & 100 µm
Location	Mexico	Treatment Capacity	5 – 10 m ³ /hr, with the potential for up to 100 m ³ /hr
Water Source	Water from potato chip production	Client	Wilbur Eagle
Filter Model	Customized solution of FS-Auto-Filter & SFT-Oil Separator.	End User	Frito/Lays
		Installation Date	April 2018