

# Proven Sand Filter Replacement Technology

INDUSTRIAL FILTRATION | SAND FILTER REPLACEMENT | WALNUT SHELL FILTERS

## Metal Processing Company - Sand Filter Replacement

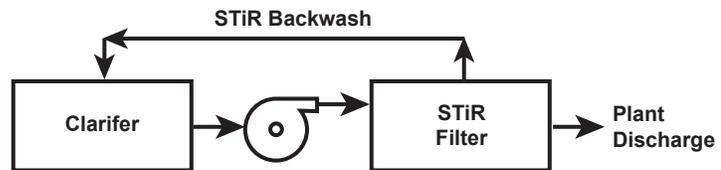
PRODUCT USED:

**STiR Industrial Water Filter**



END USER:	Metal Processing Company
LOCATION:	USA
UNITS:	(1) Model STiR-12V (12 sqft/filter)
RATE:	90 gpm. (120,000 Gallons of Water per day)
PROCESS:	Clarifier Overflow Processing - Sand Filter Replacement

### SAND FILTER REPLACEMENT-PROCESS FLOW DIAGRAM



### MORE INFO

A metal processing company operates in the US. They need to remove TSS, oil and grease, and heavy metals from the process water before discharging.

This company was struggling using two sand filters which had these frustrating issues:

- 1) low removal efficiency,
- 2) high maintenance cycles as the sand was replaced each year,
- 3) high waste generation, which needed to be reprocessed, and
- 4) potential OSHA violations as sand is classified as a dusting hazard and plant personnel had significant exposure to sand during media change-outs.

A STiR nutshell filter was evaluated for a two month period to determine how it would perform in the application.

Ultimately, a single STiR industrial water filter was selected and purchased as a sand filter replacement because it:

- 1) Provided 90% removal at 5 micron (a 90% improvement),
- 2) Offers permanent walnut shell media which does not require replacement,
- 3) Has an extremely low backwash volume (1.5% of throughput) which reduced cost to treat by 10%, and
- 4) Removed the potential silicosis hazard from the plant as the walnut shells are permanent, require no replacement, and inert.

**Waiting for the perfect opportunity to replace your failing sand filters? It's time.**

**Simply call Filtra-Systems 248-427-9090 now and discover how you can easily end your sand filter downtime and headaches.**