

Technology Description:

- Porous stainless-steel tubular membranes (3/4") with internal titanium dioxide coating for abrasion resistance
- Robust design handles high temperatures, high solids, high viscosities, and extremes in pH
- Cleans quickly using standard chemistries
- Welded and bolted construction in ASME pressure vessel
- Designed to last 10-15 years in challenging applications with little downtime, maintenance, or repair
- No internal moving parts with one external centrifugal pump
- Can operate in batch-mode or continuously and be mounted horizontally or vertically
- Proudly manufactured in the USA



Performance

- Leachate is readily filtered, producing a transparent liquid filtrate and concentrated product
- Removes nearly all suspended solids, oils, and a large fraction of organic matter, color, and metals
- Filtrate recoveries as high as 97%



Data from filtering landfill leachate:

Parameter	Raw leachate	Filtrate	Removal Efficiency
Total Solids (mg/L)	23,200	21,200	9%
Ammonia (mg/L)	2,000	1,860	7%
BOD (mg/L)	16,200	1,310	92%
Iron (mg/L)	28.4	<0.5	>98%
Cadmium (mg/L)	0.002	0.0012	40%
Arsenic (mg/L)	0.444	0.431	3%
Total Chromium (mg/L)	0.374	0.347	7%



Facility Benefits

- Leachate can be sewer discharged with lower surcharges for TSS and BOD
- Permit compliance enhanced, especially for metals like iron
- Reduced color helps treatment plants using UV disinfection
- Opportunity to solidify UF concentrate onsite or haul away small volume for offsite disposal/treatment

Please call us today for a customized quotation and to learn more about our pilot testing services.