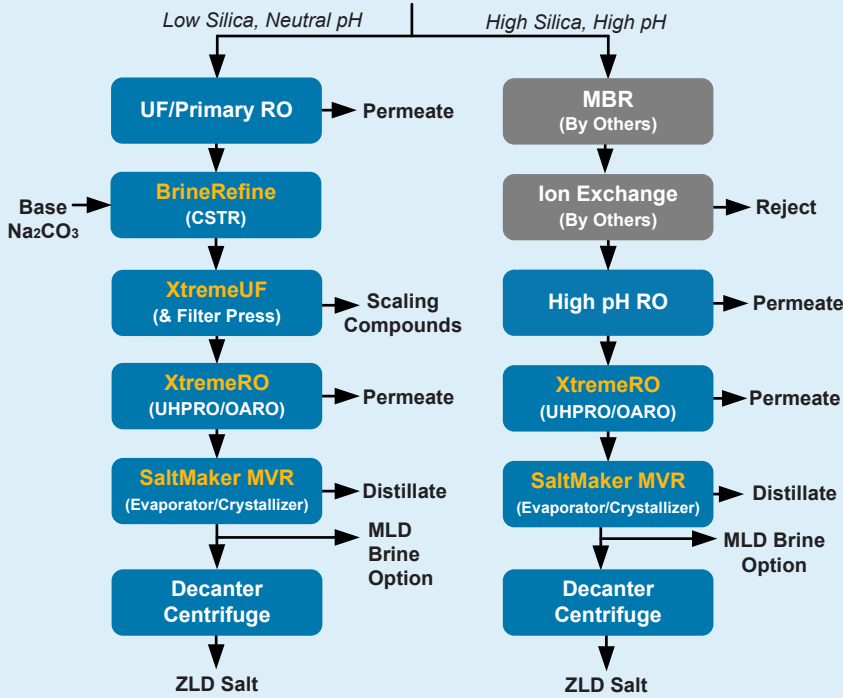




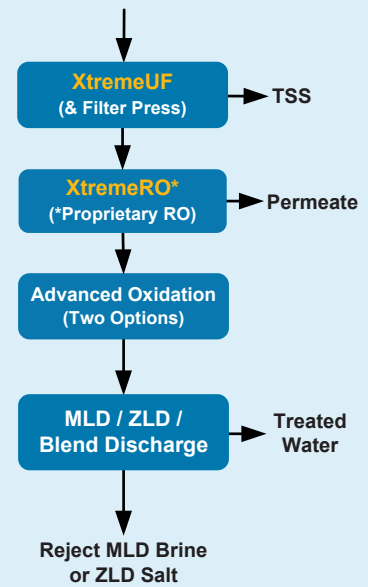
Semiconductor Wastewater Treatment Advanced Water Recovery and Contaminant Removal Systems

Treat hydrofluoric acid, total dissolved solids (TDS), azoles, and PFAS. Meet discharge limits, recycle high-quality water, and achieve zero liquid discharge with Saltworks' end-to-end complete treatment systems.

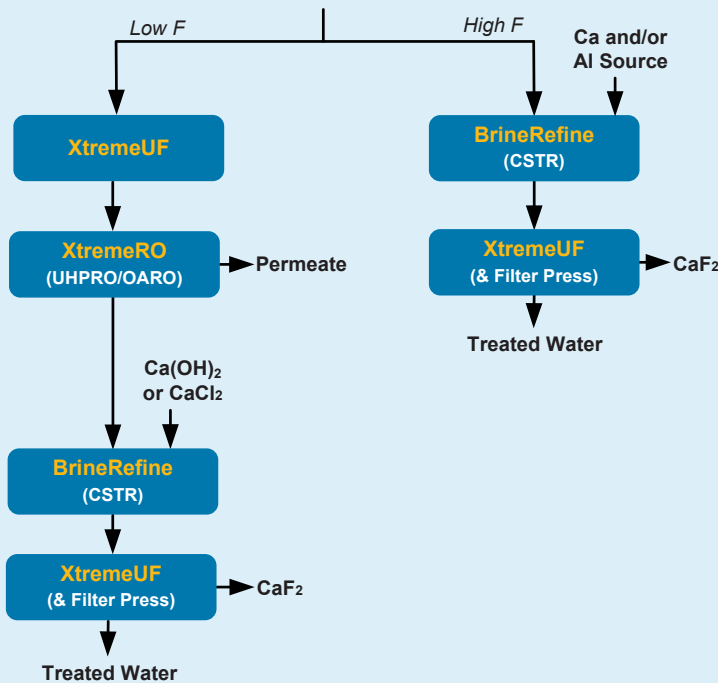
Minimal and Zero Liquid Discharge (MLD / ZLD)



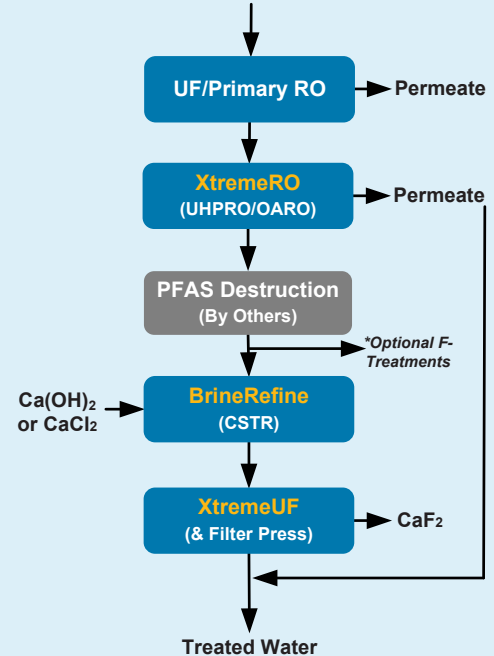
Azole Wastewater



Hydrofluoric Acid Wastewater (HFW)



Per- and Polyfluoroalkyl Substances (PFAS) Wastewater



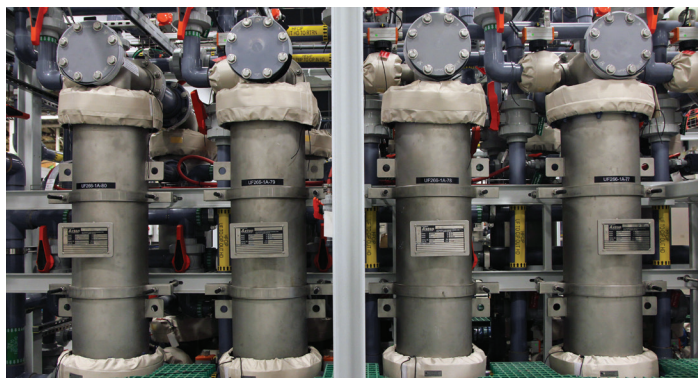
Your Semiconductor Wastewater Project

Economic delivery, technical focus, and responsiveness are critical at Saltworks. **Contact us to start today.**

- Process flow optimization and pilot testing services
- Front-end engineering design (FEED) evaluation to refine costs
- Full-scale modular systems



Semiconductor Wastewater Processing Technologies: Modular & Digitized



Hydrofluoric Acid Wastewater (HFW)

Our smart chemical conversion processes (BrineRefine) combined with our robust ceramic ultrafiltration (XtremeUF) exceeds strict fluoride discharge limits.

Our systems offer improvements in footprint, installed cost, chemical consumption, and treat to higher standards. The plants are fully modularized, intelligently controlled, and pre-commissioned, with built-in N+1 redundancy.

Minimal Liquid Discharge (MLD), PFAS and Azoles

Lower cost to concentrate brine and constituents of concern. Achieve ~1.5x-2.5x higher brine concentration than conventional 1,200 psi reverse osmosis (RO) with our next generation RO systems: ultrahigh pressure 1,800 psi RO (XtremeRO-1800) and osmotically assisted RO (OARO).

XtremeRO increases water recovery and reduces the size and cost of downstream evaporators or negates them entirely.



Zero Liquid Discharge (ZLD)

Our zero liquid discharge systems reliably and economically produce solid salt from semiconductor wastewater streams using modular, flexible crystallizers.

SaltMaker MVR systems (evaporator or crystallizer) are modular, intelligent, automated, self-cleaning, and designed for low install and operating costs.

As a crystallizer, integrated solids management systems ensure reliability at optimal capacity.