



**Owner:** Swedish and Norwegian Military

**Country:** Sweden, Norway

**Type of solution:** Aquarden SCWO System

Groundwater sites in Norway and Sweden have been identified to be contaminated with PFOS/PFAS – a highly carcinogenic and hardly degradable compound. Current methods using activated carbon to capture PFOS require long distance transport of the spent carbon to special high temperature incineration plants for destruction. A cheaper onsite solution with lower carbon footprint is desired instead.

**Description:**

Aquarden's patented SCWO system has proven complete destruction of PFOS in groundwater below detection limits, where PFOS is fully broken down into harmless compounds such as water, nitrogen, and carbon dioxide. SCWO stands for SuperCritical Water Oxidation, and has been used effectively to resolve tough wastewater challenges across a variety of industries

In addition, Aquarden is developing a process for concentrating PFOS in groundwater using adsorption and/or membranes in concert with other industrial, research, and academic organizations to further improve the treatment efficiency with SCWO.

**Technical details:**

- Complete destruction of PFOS/PFAS below detection limits with SCWO
- Concentration of PFOS/PFAS with adsorption and/or membranes
- Continuous onsite treatment

**We are experts in problematic wastewater**