

# A Case Study;



## Norway, Maine Community Drinking Water

### Problem

The town of Norway, Maine, pumps about 700 gpm from its wells for the community drinking water supply. The geology of the local area causes all groundwater to contain high levels of Iron, Carbon Dioxide and Radon. Iron precipitated as the well water was treated, fouling Norway's treatment equipment; their Radon level was 1200 pCi/l and the Carbon Dioxide levels were causing the water to be acidic, resulting in excess corrosion of pipes and treatment equipment.

### Results

Four (4) Series Six (6) BREEZE Compact Air Strippers, with 5HP air blowers, were installed to treat the drinking water supply. First, the water from the well was treated with Sodium Silica, to help suspend iron. Then the water was fed directly into the four BREEZE units operating in parallel. The Carbon Dioxide and Radon were stripped

as the water passed through each BREEZE tank, and was then vented harmlessly into the atmosphere. The BREEZE Compact Air Strippers continuously removed Radon from 1200 pCi/L to 18, and removed the Carbon Dioxide such that the pH changed from 6.4 to 7.3. It was reported by the operator that by simply removing the covers on the

BREEZE tanks to clean out precipitation and solids, maintenance was only required once a year.

### Goal

The town of Norway needed to raise the pH of the water by removing Carbon Dioxide and reduce Radon levels to meet safe drinking water standards.

