

Aquaculture Research Facility for the USDA

Akvaplan-niva together with US Architects EYP won a competition set by the United States Department of Agriculture to design the new state-of-the-art aquaculture research facilities. They undertook the conceptual, outline and then detailed design of the National Cold Water Marine Aquaculture Center located at Franklin Maine and on the University of Main Campus in Orono, Maine, USA.

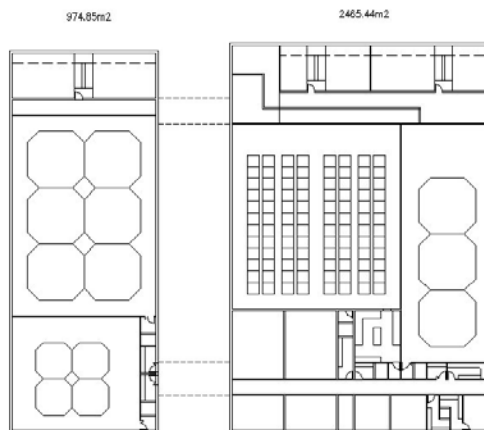
Marine Research Facilities

The facility was designed for cold water marine research on new species and selective breeding of salmon. The Marine Research Centre is located at Franklin, Maine. The facilities comprise of a salmon breeding facility, temperature controlled research laboratories, quarantine building, disease isolation research facilities and other support laboratories.



The centre was designed to have a disinfected water supply and water recirculation for biosecurity and energy efficiency. In the USA there are very strict criteria for the for the quality of effluent released and so designs were made for effluent treatment prior to discharge.

The breeding facility was designed for 200 families of Atlantic Salmon based on native strains.

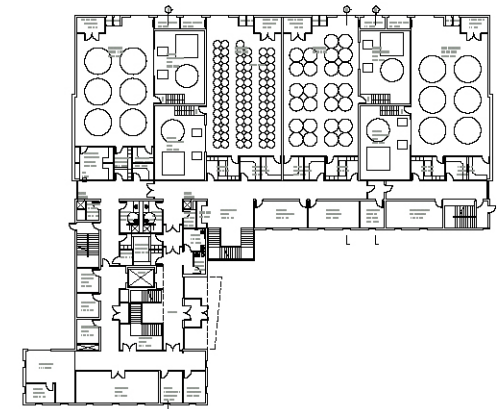


Freshwater Research Facilities

The freshwater research facility is located on the University of Maine Campus in Orono, Maine.



These facilities will include the research facilities for the freshwater stage of the Salmon life cycle. It also has a biosecure section for disease research.



Akvaplan-niva competence

Conceptual, outline and detailed design of;

- Research labs with isolation and containment
- General Breeding facility
- Quarantine facility
- Disease fish research facilities
- Laboratories
- Offices
- Water intake and treatment system
- Effluent outlet and treatment system
- Recirculation system