

ALDEN

Environmental Engineering

Alden has a team of experienced engineers and scientists that is widely recognized for helping our clients solve flow, operational, design, and environmental problems at cooling water intake structures, hydroelectric stations, and other water resource projects. Services include:

- Design development
- Laboratory and pilot-scale studies
- Hydrology and hydraulic analysis
- Conceptual and detailed design
- Construction cost estimating
- Construction oversight
- Engineering and biological evaluation

Typically, our projects:

- Evaluate site configurations to determine the most cost-effective arrangement for alternatives
- Assess hydraulic and environmental conditions (debris, sediment, ice, etc.) that affect installation and operation of each alternative
- Address operational concerns (debris removal and equipment maintenance)
- Specify construction techniques (underwater with barge-mounted equipment and divers, in-the-dry with cofferdams and dewatering systems, etc.)
- Consider existing unit and equipment operation and outages necessary for construction activities and equipment replacement
- Incorporate operational testing and biological monitoring features

