



Cornell Lake Source Cooling Project

Location: Ithaca, New York, USA

Client: Cornell University

Gryphon Contact: Peter Veldhuizen

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- Associate Firm** Haley & Aldrich of New York, Ian Larsen, Zentech BBelgium, Corpro Companies Incorporated, Makai Ocean Engineering, Inc.
- Project Summary** Conversion of Cornell University's existing chiller based chilled water system to using cold lake water to produce chilled water. The project consists of a heat exchange facility with a capacity of approximately 32,000 usgpm, 28,000 feet of 42-inch diameter chilled water piping between Cornell's campus and the heat exchange facility, and 10,000 feet of 63-inch HDPE intake pipe.
- Project Services** Gryphon provided the following Services:
- Provided feasibility study and conceptual design prior to the implementation of the project.
 - Provided the necessary level of engineering, design, and drawings to support the project environmental impact statement.
 - Provided the detailed design for the chilled water transmission pipeline, lake water intake and outfall pipelines, and the heat exchange facility that houses the process pipes and heat exchanger.
 - Prepared the bid documents for the HDPE pipe, transmission pipe, lake water pumps, chilled water pumps, heat exchangers, transformers, switchgear, variable-speed drives, and control system.
 - Prepared the construction bid documents for the installation of the intake and outfall pipelines, chilled water transmission pipelines, and the heat exchange facility.
 - Hired and managed subconsultant with experience world wide to design the HDPE intake and outfall pipelines, the intake screen, and to assist with the deployment of the pipelines.
 - Hired and managed subconsultants for the surveying, geotechnical work, corrosion protection, architectural design, and landscape design.



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