



Water Treatment



Since 1945, O'Brien & Gere paved the way as an innovator in water treatment and residuals management. The firm's staff of engineers, scientists, and technicians have demonstrated their expertise in every phase of water treatment, from intake to delivery and disposal of treatment plant residuals. Some of the areas in which O'Brien & Gere has pioneered work include:

- Advanced disinfection technologies
- Microfiltration
- High-rate direct filtration
- Alum sludge freeze-thaw

LEADING EDGE RESEARCH/AWARD-WINNING CONSULTING WORK

O'Brien & Gere has been a leader in water research and the recipient of many American Consulting Engineers Council (ACEC) awards for its work in water treatment, including:

- Tested ultraviolet technology for potable water disinfection under a grant from New York State Energy Research & Development Authority
- Participated in AWWA (American Water Works Association) Research Foundation work on coagulation and force protection
- CEC (Chartered Engineer Certificate), New York Design Excellence Award – Mashantucket Pequot Tribal Nation Membrane Filtration Water Treatment Plant (CT)
- CEC National Honor Award – High-Rate Direct Filtration and Alum Sludge Freeze-Thaw (NY)
- Engineering Excellence Awards Gold Award, Water Resources Consulting Engineers Council of New York State – Town of Queensbury (NY) Water Treatment Plant Expansion

A FULL-RANGE OF WATER TREATMENT SERVICES

O'Brien & Gere believes a water treatment system, being more than just the sum of its parts, calls for a comprehensive consulting strategy. In providing this, the O'Brien & Gere team offers a full-range of services to clients, including:

- Regulatory Consulting: Stays abreast of developing Safe Drinking Water Act regulations and our insight on these regulatory issues helps clients proactively plan for compliance
- Testing and Analysis: A gamut of diagnostic tools such as pilot, bench scale, and reliability studies enables O'Brien & Gere to find innovative and practical solutions to treatment problems
- Project Support: Offers a full complement of project support services, including community outreach assistance; available on-staff municipal finance consultants; development of technical workshops, newsletters, and videotapes; start-up and troubleshooting; and the compilation of Operation and Maintenance (O&M) manuals

STAYING AHEAD OF THE CURVE

The O'Brien & Gere team prides itself on staying abreast of new developments

CONTACT US

For more information please visit our website at www.obg.com or e-mail info@obg.com



Water Treatment

in the field of water treatment. The firm's engineers and scientists are fully conversant with:

- Microfiltration: Successfully adapted microfiltration techniques to the needs of its clients, as in the case of the Mashantucket Pequot Tribal Nation's water treatment plant
 - Microfiltration provides complete removal of Giardia, Cryptosporidium, and similar size organisms regulated by the SDWA (Safe Drinking Water Act)
- Ultra Violet (UV) Disinfection and Ozonation: Used leading edge research and application of ultraviolet disinfection and ozonation for Cryptosporidium control and disinfection by product reduction.
 - UV Disinfection is rapidly becoming a cost effective option for enhanced disinfection; and O'Brien & Gere is a leader in its research and application
- Taste, Odor Control, and Total Organic Carbon: New and retrofit applications of granular activated carbon filters have been utilized for taste and odor control and reduction of dissolved organics
- High Rate Processes: Tested and applied numerous high rate processes to reduce cost, and can fit in compact areas, such as:
 - Ballasted flocculation (Actiflo®)
 - Dissolved air flotation
 - Tube and plate settlers
 - Upflow pulsed bed clarifiers (Superpulsator®)
 - Deep-bed, high-rate filters
- Process Optimization: Water quality and treatment experts can optimize existing process performance by changing coagulants, applying better pH control, changing the disinfectant, or improving dosage control... often avoiding expensive capital upgrades while improving water quality

UV DISINFECTION



PLATE SETTLERS



SUPERPULSATORS

