WET TECH ENVIRONMENTAL

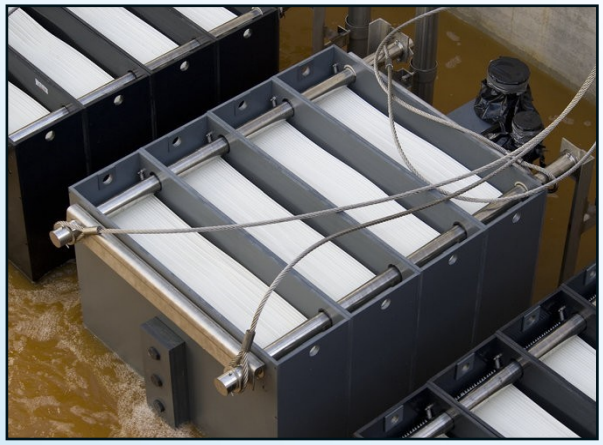
LISTENS TO UNDERSTAND OUR CLIENT'S NEEDS - DEVELOPS SOLUTIONS TO SOLVE THOSE NEEDS

What Are Your Challenges?

Wet Tech Environmental works with municipalities to increase the efficiencies of their wastewater treatment. By providing a highly effective solutions we are able to meet the ongoing challenges of a variety of wastewater concerns faced by many municipalities today.

MANYOF THE PROBLEMS FACED TODAY BY MUNICIPALITIES

- **Aging and Out of Date Infrastructure**
- **Regulations and Compliance Costs**
- **Budget – Underfunding (Requiring Grants at Local and Federal Levels)**
  Energy Costs
  Labour Costs
- **Keeping Up with New Development Demand**



CLIENT NEEDS

What Are Your Challenges?

Wet Tech Environmental provides wastewater solutions for municipalities, both large and small. One or our solutions, "bioaugmentation" of the process of dosing bacteria into the sewer infrastructure is; highly effective, requires minimal input costs, little or no maintenance or energy costs and is flexible to administer for a variety of situations. We break down effluent biologically, the way nature does. Due to the nature of our technology we are able to meet the needs of all different types and sizes of municipal clients. When communities or property developers are not able to connect to existing wastewater infrastructure we have the solution for them as well. Providing an efficient portable wastewater treatment solution affords us the flexibility to configure our wastewater treatment technology for a diverse range of situations.

Aging and Out of Date Infrastructure - A number of factors contribute to costly infrastructure deterioration. Corrosion from gas build up within a treatment plant contributes greatly to this problem resulting in a significant portion of wastewater infrastructure costs. According to EPA's surveys, H_2S gases being a major occurrence within wastewater facilities leads to corrosion which is one of the major culprits in pipe and treatment plant failure. As a result of the H_2S gases, some materials are failing in as little as 10 years.

Regulations and Compliance Costs—Compliance for many municipalities have created significant challenges when treating wastewater, contributing greatly to rising costs. Whether it's engineering studies, upgrading cost of aging infrastructure or securing adequately trained staff to monitor and report effluent discharges, each of these represent just a few factors faced by municipalities to remain compliant with government regulations.

Budget – Underfunding (Requiring Grants at Local and Federal Levels) - Although infrastructure remains a significant cost of the wastewater treatment equation there are many cost factors associated with wastewater treatment.

Energy Costs—One of the largest expenses in operating a wastewater treatment plant is energy consumption, in fact studies have suggested between 2-3% of a developed nation's electrical power or approximately 60 tWh (terawatt hours) per year are used for wastewater treatment.

Labour Costs—Another key expense incurred is the requirement for skilled operators of wastewater treatment facilities. Individuals must be adequately trained and certified, on call 24 hours a day and are responsible for overseeing all aspects of the treatment facility ranging from pipes, leaking valves, instrumentation or electrical equipment.

Keeping Up with New Development Demand - With rising costs due to funding requirements for wastewater infrastructure, developers may seek out alternative property sites in other jurisdictions. The impact of losing development projects within a community will erode the much needed tax base for municipalities. It may not only be the infrastructure costs that alters the development within a municipality but may also be the odour emitted from a treatment facility. When proper wastewater treatment does not occur and odours are emitted land owners complain, the news media spreads the story which ultimately will effect the property values in the area.

Proper Solution - By providing an economical effective solution for wastewater treatment a number of situations are resolved.

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PROVEN TRACK RECORD

Biological Dosing - A History Working With Municipalities

Developed and put into operation for municipal wastewater treatment over 30 years ago, Wet Tech Environmental founder, John Williams, was CEO of an American company which developed a microbiology that was instrumental in increasing the efficiency of municipal wastewater treatment. Applications with the over 30 municipalities have created documented results of municipalities moving from non-compliant to compliant status within a few short months. Wastewater indicators such as; BOD, COD, H_2S, Ammonia, Phosphorus, Nitrogen, Odours, FOG (Fats, Oils and Grease) declined dramatically and consistently in all situations. In comparison to capital expenditures normally prescribed results were achieved at a fraction of the costs. From these initial learning experiences, we have further refined the microbial process from its original inception, thereby creating a more effective tool to treat wastewater. This biological dosing approach utilizes an improved microbial formulation which is applied in massive amounts in an active state within the sewer system upstream of the wastewater treatment plant. This method and location of biological dosing increases efficiencies and utilizes the entire sewer collection system as part of the wastewater treatment process.

Other technologies currently available can provide solutions for a variety of other related wastewater issues faced by municipalities, such as odours and corrosion caused by H_2S gases, FOG (fats, oils and grease) another reason for dosing within the sewer infrastructure where these issues are apt to commence. Municipalities may be experiencing difficulties treating leachate at their landfill sites or PFOS / PFAS which is now being discovered in municipalities around the globe. High nitrogen or phosphorus levels are often another cause for concern that often requires specialized treatment to deal with such issues. Sludge reduction in lagoons, yet another area in which Wet Tech Environmental can provide benefits, extending the life of a lagoon saving on dewatering and sludge removal costs.

Through our global connections, Wet Tech Environmental has acquired the ability to develop a multitude of solutions. John Williams, John Herring, and John Baker collectively have over 120 years of wastewater experience and have literally worked all over the world providing wastewater treatment solutions.

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PROVIDING SOLUTIONS

Reduction in the levels in which wastewater is measured has numerous beneficial impacts on all facets of the treatment process. From the collection system to the treatment facility and the eventual reintroduction into our waterways. Wet Tech Environmental has proven microbial solutions that outperforms other solutions. The Wet Tech Environmental team works with each client to identify their unique challenges and then develops a customized solution. Our team is involved throughout the entire process not only in the development of a solution but also the ongoing monitoring of the system. We are part of your team working on your water and wastewater treatment.

OPERATING EFFICIENCIES

Wet Tech Environmental solutions increase OPERATING EFFICIENCIES by reducing;

- influent organic loading and the costs associated with sludge handling and disposal,
- expensive chemicals,
- energy usage,
- FOG. (fats, oils and grease)
- H_2S gases and the resulting odors and corrosion,

Our technology is extending and protecting the life of the existing infrastructure by converting the entire sewer collection system into an active beneficial part of the wastewater treatment process.

SLUDGE REDUCTION = INCREASED CAPACITY

Wet Tech Environmental dramatically reduces the load on the WWTP increasing plant CAPACITY, reducing SLUDGE, and reducing energy costs associated with aeration. Biological dosing of microbial material converts the entire sewer collection system into an active, beneficial part of the wastewater treatment process. Working with our in-house engineering team, Wet Tech Environmental can help defer plant expansion, reduce plant expansion costs, and greatly increase the useful life of new and existing INFRASTRUCTURE.

EFFLUENT COMPLIANCE or POLLUTION COMPLIANCE

Wet Tech Environmental improves WATER QUALITY for discharge or reuse by reducing influent organic loading and effluent pollutant levels. We have helped compliant plants function more efficiently and helped non-compliant plants achieve their targets. Wet Tech Environmental works with both conventional treatment processes and advanced treatment designs including BIOLOGICAL NUTRIENT REMOVAL and MEMBRANE BIOREACTORS.

LOCATED IN CHICAGO U.S.A. AND CALGARY CANADA
BUT WE'RE REALLY CONNECTED GLOBALLY

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