

BULK LIQUID SERVICES - Treatment & Recycling of Bulk Liquids



INNOVATIVE TECHNOLOGY

United's Gracey Avenue treatment facility has just adopted its latest treatment technology. Biological treatment has become the final step for the treatment system to remove soluble organic matter from the effluent. This technology addresses changes to the waste stream and reduces the carbon content in our effluent. We now have another alternative when considering waste waters contaminated with toxic organic compounds. The treatment train uses a sophisticated air delivery system to supply oxygen to bacteria used to degrade the organic material.

This process was previously only available in large installations treating millions of gallons. Utilizing advances in technology, we have been able to minimize the size of the equipment by using upright tanks and surface area enhancing media.



FUEL BLENDING, THERMAL TREATMENT AND RECYCLING

United's subsidiary, Norlite Corporation, operates two high-temperature rotary kilns that use hazardous waste fuel and other recoverable products to transform shale into the lightweight aggregate that is used in bridges, buildings, specialized fill, and growing media for green roofs. The facility mines shale on site,



sizes it and feeds it into kilns where the transformation takes place. The fuel is blended onsite from low grade fuels that have been rigorously tested in a nationally certified onsite laboratory. This fuel achieves a flame temperature of over 3000°F. The byproduct of this process is the total destruction of organic hazardous waste at the facility. Norlite achieves 99.9995% destruction removal efficiency on the most difficult to incinerate organic materials.

Processes are in place at Norlite to ensure the integrity of the waste storage tanks and kiln system. Operating conditions are constantly monitored to ensure that fuel is burned completely. In addition, emissions are carefully monitored, controlled and treated to prevent air pollution. Our Norlite facility sets the standard found in the new hazardous waste combustor MACT regulations for lightweight aggregate kilns.



UNITED INDUSTRIAL SERVICES

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AQUEOUS TREATMENT

One of the most common raw materials used by industry is water. It completes formulations; it is used as a carrier; and it is used to clean things every day. Water becomes contaminated quite easily and must be treated.

However, it also becomes a contaminant in many of the raw materials and products in use today. When water is returned to the environment, it must be free of contaminants. United Industrial Services specializes in removing water from petroleum products and then removing contaminants from water before it is discharged. As a commercial waste treatment company, we have the capacity and technology to manage most aqueous based waste streams. Our separation capabilities recover more water from recyclable waste streams and yield a more usable product for return to industry.

INDUSTRY LEADER

United has been at the forefront of aqueous treatment by utilizing innovative technologies and unique technology combinations to remove pollutants. Our Meriden, CT facility was studied by the EPA for the development of treatment standards for the Centralized Waste Treatment industry. Treatment schemes can be tailored for the waste stream by using combinations of ultra filtration, reverse osmosis, chemical precipitation, biological reduction, carbon adsorption, oxidation, filtering and settling. Each treatment technology removes a specific class of pollutants which in turn increases our effectiveness and efficiency in treating waste waters.



COMPREHENSIVE SERVICE

Our network of regional collection and processing facilities allows United Industrial Services to fully support all of your waste removal needs. We will work with you to develop a comprehensive waste management plan that includes regularly scheduled pickups (based on volume), proper handling, and assistance with paperwork to meet government regulations.



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