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Client: Hungerford & Terry, Inc.

Hungerford & Terry Announces
Two High-Efficiency Nitrate Removal Systems
Process Lowers Nitrate Concentrations Well Below EPA Standards

Clayton, NJ – Hungerford & Terry, Inc., a leader in the design and manufacture of water treatment technologies for 100 years, has developed two highly efficient nitrate removal systems.

The countercurrent removal system is the best choice for most systems because of its extremely efficient design and operation. For smaller systems, where capital costs are of greater concern, Hungerford & Terry recommends its cocurrent nitrate removal system.

Both the countercurrent and cocurrent systems reduce the nitrate levels in water through anion exchange. The nitrates, alkalinity and sulfates are exchanged for chlorides on strongly basic anion exchange resin.

The countercurrent system uses up-flow regeneration to attain the lowest possible leakage from the exchanger which allows a larger portion of water to bypass the treatment process. Rinse reclaim and brine reuse can substantially increase the system's efficiency.

With Hungerford & Terry's two nitrate removal systems, the goal of reducing the concentration of nitrates in the water to levels well below the 10 mg/L standard established by the United States Environmental Protection Agency (EPA) is easily attainable.

"In recent years, contamination of groundwater, and in some instances surface water, by nitrates, has become an increasingly worrisome and widespread problem," stresses Alan Davis, Hungerford & Terry's President. "These significant sources of contamination include fertilizer run-off in agricultural areas, septic tank field percolation and land disposal of wastes. In concentrations over 10 mg/L, nitrates pose health risks to people (especially infants) as well as to livestock."

Hungerford & Terry officials have indicated that their key objective is to develop treatment plants that are smaller and more efficient than the conventional cocurrently regenerated systems. Nitrate leakage from a countercurrently regenerated system is one-quarter to one-tenth the leakage of that from a cocurrently regenerated system as of now.

"Especially in Southern California, where disposal of brine waste is such a major issue, we have been successful in winning more projects on the basis of the efficiency of our design," concludes Davis. "Not only is the waste volume minimized, but brine usage is also reduced, thereby, cutting the operating cost even more."

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Hungerford & Terry Announces High Efficiency (cont'd)

Hungerford & Terry's nitrate removal brochure provides the engineering details of both processes and describes the uniquely designed equipment and technologies. This critical information will enable decision makers for municipal and industrial water facilities to determine the appropriate system for their particular requirements.

In 2009, Hungerford & Terry, Inc. celebrates 100 years of water conditioning for a wide range of industrial, commercial and municipal operations throughout the world.

Since its inception in 1909, Hungerford & Terry has designed and manufactured thousands of systems that incorporate both conventional and unique water treatment technologies that include removal of iron, manganese, nitrate, arsenic, radium and hydrogen sulfides.

A leading distributor of high-performance water filtration media, including GreensandPlus, Hungerford & Terry, Inc. is based in Clayton, NJ, USA. Hungerford & Terry has more than over 30 sales representative organizations throughout the United States, as well as in Canada, Central America, Argentina, Chile, Ecuador, Mexico, Peru, Uruguay and Asia.

To obtain copies of the nitrate brochure, please contact Mr. Ken Sayell at Hungerford & Terry, Inc.: 226 Atlantic Avenue, Clayton, NJ 08312-0650. Tel: 856.881.3200. Fax: 856.881.6859. E-mail: sales@hungerfordterry.com. www.hungerfordterry.com.

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Caption:

A Hungerford & Terry countercurrent nitrate removal system is installed at the Chino I Desalter Facility, Chino, CA.

Electronic File Available Upon Request:

FOR PRESS INFORMATION ONLY, PLEASE CONTACT:

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