

City of Aurora, Colorado to Purify Drinking Water Using Trojan UV

July 5, 2006

London, Ontario, Canada

Trojan Technologies Inc. announced today that it has been selected to provide an ultraviolet (UV) water treatment solution that will increase the City of Aurora's capacity to provide pure, clean water to its residents. The planned 50 million gallon per day Aurora Reservoir Water Purification Facility, part of the Prairie Waters Project, will utilize the TrojanUVPhox™ to both disinfect and act as a barrier to potentially harmful chemical contaminants in drinking water. The value of the contract is in excess of US\$10MM.

"Our customers demand safe, pure water and that is what we promise to deliver. UV-oxidation will ensure that we continue that commitment as we develop new water resources to provide for our community into the 21st century," said Peter Binney, Director of City of Aurora Water.

"We are excited about the application of this emerging technology as part of a multiple barrier purification approach," said Paul Swaim, CH2M HILL's Global Technology Leader for Water Treatment. "UV-oxidation offers significant benefits that will enhance the protection of public health for Aurora's customers."

The TrojanUVPhox™, was selected after a cost-benefit evaluation of potential purification approaches was conducted by the project team. Other technologies such as ozone were also evaluated. Trojan UV-oxidation was selected for its proven ability to provide superior disinfection, accomplish treatment without creating disinfection by-products such as bromate, and act as a barrier to multiple contaminant classes such as taste and odor-causing compounds, pharmaceuticals, steroids, pesticides and nitrosamines.

Marvin DeVries, President of Trojan Technologies, said, "We are excited to be partnered with the City of Aurora in providing the UV solution for this ground-breaking project. More and more, municipalities are looking to address both biological and chemical contaminants. Trojan's two environmental contaminant treatment solutions, the TrojanUVPhox™ and the TrojanUVSwift™ECT, were specifically designed to accomplish treatment of environmental contaminants while simultaneously disinfecting. With these two product offerings, Trojan is committed to providing customers with the ultimate flexibility in selecting a solution that meets their specific needs,"

The TrojanUVPhox™ destroys a variety of chemicals including taste and odor-causing compounds such as MIB and geosmin, pharmaceuticals such as ibuprofen and acetaminophen, hormones such as estrogens and testosterone, pesticides such as atrazine and isoproturon, and the emerging contaminant class of nitrosamines that includes *N*-nitrosodimethylamine (NDMA) and *N*-nitrosodiethylamine (NDEA).

All nitrosamines are effectively treated with UV light. Nitrosamines cannot be effectively treated with other advanced water treatment technologies such as activated carbon, reverse osmosis (RO), or ozone. At the federal regulatory level in the U.S., nitrosamines have recently been included on the EPA's proposed Unregulated Contaminant Monitoring Rule 2 (UCMR 2). The State of California has set a Notification Level for NDMA at 10 parts per trillion and a Public Health Goal of 3 parts per trillion. In addition to its ability to destroy these chemicals,

UV light treatment technologies are increasingly being used as part of a multi-barrier disinfection strategy for drinking water facilities because of their ability to cost-effectively treat microorganisms that are resistant to chlorine.

The TrojanUVPhox™ UV-oxidation system at Aurora will add to the growing number of installed Trojan UV systems removing chemical contaminants and disinfecting using UV-oxidation on a large scale. The TrojanUVSwift™ECT UV-oxidation system is being used in other high profile drinking water facilities such as the PWN Andijk and Heemskerk treatment plants located in the Netherlands. The TrojanUVPhox™ is being utilized by a number of plants throughout the world, in both drinking water and indirect potable reuse applications, including the California Domestic Water Company and the Orange County Water District's Groundwater Replenishment System, both located in Southern California.

Trojan designs, manufactures and sells UV systems for municipal wastewater and drinking water, as well as for the industrial, commercial and residential markets. The company also provides UV treatment for the removal of certain chemicals from water. With over 4,000 municipal installations in more than 50 countries using its technology, Trojan has the largest installed base of UV systems in the world. Headquartered in London, Ontario, Canada, the company also has offices in the U.K., Germany, Norway, Spain, and the U.S.

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