

Press Release

Contact: C. G. Steiner
Phone: 913.897.2727

For Immediate Release
Date: September 1, 1996

Subject: OPCT™ Optimized Physical/Chemical Treatment Process

WaterSmart Environmental, Inc. announces an unprecedented improvement in physical/chemical treatment. Its new proprietary OPCT™ (Optimized Physical/Chemical Treatment) process utilizes highly effective contaminant precipitation followed immediately by solids removal and sludge dewatering to reliably, effectively and inexpensively handle a complete range of water and wastewater treatment applications.

Unparalleled cost-effectiveness is one of the primary advantages of this innovative technology. Through the elimination of unnecessary flow transfer and treatment equipment, process complexity is minimized. The more simple the system the greater the reliability. And less equipment means less lead time necessary to complete manufacturing. Quicker delivery helps keep plant construction on schedule and under budget. In addition, the ACT™ process is extremely user friendly. Chemical addition is automatically controlled thereby reducing required operator skills. End users can be confident of total quality control, because ACT™ process plants can be supplied skid-mounted, factory assembled, and fully tested prior to shipment.

Cost Efficiency

Less equipment translates into extremely attractive procurement and operational costs. When measured against traditional physical/chemical treatment equipment the OPCT™ process costs about half as much to purchase. Depending on treatment requirements the OPCT™ process can also reduce operating costs by half.

Space Efficiency

The OPCT™ process requires about 1/4th the space of classical physical/chemical treatment processes. Accelerated treatment means large flow rates can be accommodated in a small space. Even existing physical/chemical treatment plants, including dissolved air flotation, can be easily modified or retrofitted to the OPCT™ process, thereby reducing the size of the facility through the decommissioning of unnecessary equipment.

Flexibility

The wide range of contaminants removed include divalent cations, turbidity, suspended solids, alkalinity, PCB's, dioxins, pesticides, heavy metals, radioactive nuclides, dissolved organics, iron and manganese. This process can be used to treat ground water, surface water, mixed wastes, and landfill leachate. It can also purify toxic, hazardous and radioactive wastewater. Lagoon decommissioning, softening, and treating stormwater runoff are other excellent candidates for the OPCT™ process. Routine plant operation can be batch or continuous and process control can be manual or automatic. The OPT™ process can be ordered factory-assembled

or on an engineered component basis. Depending on treatment requirements, additional organics and inorganics removal equipment can be added to the basic design to achieve the level of purification desired. The tremendous versatility of the ACT™ process means it can be tailored to fit most water treatment projects, municipal or industrial. No charge-no obligation laboratory testing is provided by the company to prequalify the OPCT™ process.

WaterSmart Environmental, Inc. is a provider of waste-to-energy, food independence, water independence, and energy independence technologies and a manufacturer of highly engineered water purification components and systems. The company designs and builds a wide variety of water treatment equipment including packaged water and wastewater treatment plants, UltraPac™ aerobic package plants, OAT™ Process anaerobic digesters with associated energy production, aerators, filters, Pur-iSep™ and SmartWater™ oil/water and solids/liquids separators, RainDrain™ perimeter trench sand filters for stormwater runoff, dissolved air flotation separators, air strippers, complete skid assembled aqueous waste treatment plants, FilterFresh™ skid mounted potable water production plants, skid mounted wastewater treatment systems for laundromats, commercial laundries, and car/truck wash facilities with water reclamation and reuse, softeners, demineralizers, activated carbon treatment equipment, and water purifiers for domestic and international markets.

*Specialists in Water and Wastewater Treatment Featuring
Next Generation Wastes-To-**Renewable Energy** Technologies*

