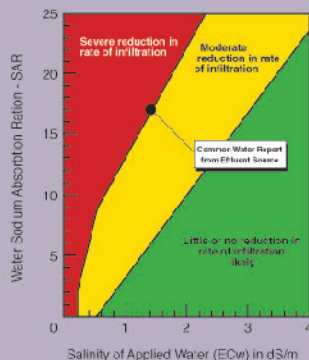
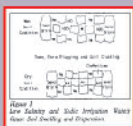


**As fresh water conservation has become increasingly critical, recycled water is being used now more than ever for watering Golf Courses, Parks, Sports Fields and other turf applications.**

**THE PROBLEM CREATED** however, is that effluent water is treated to be safe for human contact, but that doesn't mean that the water chemistry is optimal for use as irrigation water.

In fact, wastewater is commonly high in both sodium and bicarbonates. Over time, this can severely degrade soil structure and plant health, and ultimately wastes water due to poor soil penetration and excessive runoff.



## CALCIUM INJECTION PROGRAM

With our program, Wastewater Solutions provides and installs its proprietary Aqua-Ject® injection equipment right at the treatment facility, with no need for any equipment or application to be performed on the golf course or other site property. The combination bulk silo and metered injection process is a stand alone, fully automated system with state-of-the-art controls designed to meet such a high level of performance and accuracy that it now has a patent pending. By amending the effluent at the source, *all* downstream users can enjoy the benefit of improved irrigation water. Each one will also enjoy the cost savings associated with a reduced treatment program. Wastewater Solutions even provides the equipment *free* to the municipality when they implement our calcium injection service program.

Golf courses are typically the largest user of reclaimed water, and yet are the most sensitive to water quality issues. The health and appearance of golf courses dramatically impact both their real and perceived value, as well as the quality of play and the overall golf experience. The most serious problems typically associated with any irrigation water is high sodium and bicarbonate levels.

Because soluble gypsum is logistically difficult to handle at the course level, water and soil amendment is generally accomplished on site with the use of sulfuric acid, sulfur burners and/or more expensive forms of calcium such as liquid polysulfide or calcium chloride. The latter methods add calcium, but also create unwanted side effects such as a foul odor or excessive chloride. Solution Grade powdered gypsum is the **ONLY** source of calcium that is 100%-natural and does not create any odor or include any other potentially detrimental chemicals.

The Aqua-Ject® and Wastewater Solutions truly provide a win-win-win situation. The Golf Courses, Parks and/or Sports Fields get better irrigation water; The municipality doesn't have to purchase any equipment; The Aqua-Ject® system is completely automated and virtually maintenance-free so the treatment facility is not burdened; The environment benefits from less chemical additives applied to treat the water and soil; And fresh water resources are saved for culinary use.

## Implementation:

### 1) Independent Testing

Recent water and soil reports from all potential downstream sites are sent to an independent laboratory for initial analysis.

### 2) Site Visit

If the lab reports back that injecting gypsum may be appropriate and desirable as a water amendment, then Wastewater Solutions personnel will visit the location(s) to review the current status of soil and water conditions, take samples, and tour the wastewater treatment facility serving the golf courses or other sites.

### 3) Presentation

If the site visit confirms the gypsum requirements and logistics of an Aqua-Ject® installation, then Wastewater Solutions will host a luncheon or other informal meeting where all interested parties may participate in a slide show presentation and discuss the chemistry and economics of a solution gypsum injection program in more detail.

### 4) Formal Written Proposal

Based on discussions with the affected sites, and with a general agreement that the installation is both desirable and viable, a formal written proposal is presented to the municipality who operates the wastewater treatment plant for their review. This proposal will outline in detail the services and equipment that will be provided by Wastewater Solutions, as well as the City's responsibilities and all costs associated with the Gypsum Injection program.

Typically, the municipality need only supply the cement pad and basic utility services to the injection silo.

All necessary capital equipment and installation is provided by W.S.I. as an integral part of a multi-year Supply Agreement. The municipality would have the option to purchase the equipment at the contract conclusion.