



**CENTRAL FLORIDA
WASTEWATER TREATMENT FACILITY**

Challenge:

To determine if Enviro-Tech of America, Inc. and **PX-700®** could accomplish the following:

- Reduce amount of solids that are produced at the treatment plant
- Reduce the disposal cost of the sludge produced

Facility personnel were used to gather and maintain records for the appropriate data.

Background Data:

Facility Type: Aerobic treatment facility with both industrial and domestic flows
 Design Flow: 2 million gallons per day
 Current Flow: 1.2 million gallons per day
 Sludge Generation: Average of 66.185 tons per month

Infiltration is a major concern to City personnel. Flow amounts increase by over 10% during rainy periods. The facility has been generating an average of 66.185 tons per month of sludge. The abnormally high quantity of sludge generated can be attributed to the facility's groundwater infiltration problem.

Treatment Procedure:

Product Used: **PX-700®**
 Treatment Period: 6 weeks
 Injection Points: Digester
 Amount of Product Used: 39.6 ounces per day for a dosage rate of 0.25 mg/L

Results:

	<u>Start</u>	<u>End</u>	<u>Reduction</u>
Biosolids Reduction	66.185 tons/month	30 tons/month	54%
Annual Hauling Cost	\$135,000.00	\$54,000.00	60%

Facility records also indicate that during the first 30 days of use, the amount of polymer used as a part of the treatment process declined as well as the man hours associated with the proper handling, transport, and disposal of the generated sludge. It quickly became apparent to all involved that the use of **PX-700®** significantly reduced the amount of sludge generated by the facility.