



**PENNSYLVANIA ACTIVATED SLUDGE  
WASTEWATER TREATMENT PLANT**

**Challenge:**

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

- Reduce amount of solids that are produced at the treatment plant
- Reduce the disposal cost of the sludge produced
- Improve the quality of the final effluent

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

**Background Data:**

Facility Type: Activated Sludge  
 Design Flow: 5.8 million gallons per day  
 Current Flow: 8.0 million gallons per day

**Treatment Procedure:**

Product Used: **PX-700**<sup>®</sup>  
 Treatment Period: 30 days  
 Amount of Product Used: First four weeks at 53 ounces per day  
 Injection Points: 966 ounces or 7.54 gallons per 24 hour period

**Results:**

	<u>Start</u>	<u>End</u>	<u>Reduction</u>
Biosolids Reduction	29 tons/week	18 tons/week	40%
Monthly Hauling Cost	\$27,964.57	\$16,875.00	\$11,089.57
Annual Hauling Cost	\$335,574.84	\$202,500.00	\$133,074.84
Effluent NH <sub>3</sub> -N	431 lbs/day	282 lbs/day	35%
Effluent CL <sub>2</sub> Residual	0.37 mg/L	0.27 mg/L	27%

The introduction of **PX-700**<sup>®</sup> into the facility at a controlled dosage of 1 ppm has enabled the facility to improve the overall effluent quality and significantly reduce biosolids and associated processing, hauling, and handling costs.