



Industrial Waste Water Services, LLC

Industrial Physical/Chemical Wastewater Treatment Systems



Customer

Performance Data

Industrial Laundry

Bethlehem, PA, United States
 Co. Description: **Primarily serve food industry with wide range of products**
 Products: **White Towels, Aprons, Garments - 30%, Color Cloth, Towels, Napkins, Garments - 18%, White Cotton Napkins - 17.5%, Walk Off Mats - 15%, Bar Mops - 11%, White Satin - 8.5%**
 System: **200 GPM Phys/Chem**
 Sale Date: **9/15/2003**
 Flow Rate (Gals. per Day) **110000**
 Flow Period (Hours): **8.5**
 Days of Operation / Week: **5**
 Reuse Percent: **NA**
 Chemical Cost / 1,000 Gal. **\$1.18**
 Factors Motivating Decision:
Paying surcharges and facing fines without waste treatment.

Contaminant	Raw Water (mg/L)	Limit (mg/L)	Results (mg/L)
pH	10.6	5.0	6.9
TSS	1574	Monitor	29.3
BOD	2153	300	162
COD	6915	600	549
O & G	131.4	100	10.4
Arsenic	0.008	0.43	ND
Cadmium	0.004	0.21	ND
Chromium	0.245	0.91	ND
Copper	0.217	2.07	0.06
Lead	0.035	0.43	0.01
Mercury	ND	0.002	ND
Nickel	0.047	2.26	0.03
Silver	0.002	0.24	ND
Zinc	1.143	1.48	0.30

An Industrial Laundry in Bethlehem, PA needed to present a wastewater pretreatment plan to the city to avoid costly fines. IWWS temporarily installed and operated a full-scale physical/chemical waste treatment system.

The IWWS Full-Scale demonstration unit was a 0-200 GPM model equipped with the LS reuse compartment for storage of reuse water (1,068 gals.). Sludge holding and polymer mix tanks are also integral to the skid-mounted system.

During the four day demonstration IWWS treated the customer's actual waste stream and the customer sent samples of both influent and effluent to their lab for analysis. Chemical usage was recorded as well.

The demonstration was a complete success and the city has approved the customer's plan.



IWWS 0-200 LS PhysicalChemical waste treatment system includes flotation compartment, sludge holding, polymer holding and extended reuse holding along with all pumps on one skid. Setup time was four hours.



Sludge was dewatered using an IWWS filter press and the resulting filter cake was sent to the lab for analysis. The filter cake was very dry and easily handled.

locally represented by:

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