

## Environmental Wastewater Processor

This facility receives and treats oily wastewater from industrial clients. The water is treated with an initial oil/water separator, collected in a reaction tank where Floc is used at a dosage of 325 lbs/18,000 gallons, then dewatered using a filter press. The results of the preliminary tests with just Floc are shown below:

**General Analysis** (units in mg/L)

	Untreated	Treated	% Removal
BOD	14,100	5,190	63.2%
TDS	3,600	3,560	Negligible

**Total Toxic Organics, EPA Method 8260B** (all units in ppb)

Removal	Untreated	Treated	
1,4-Dichlorobenzene	181	ND	>99%
Ethyl benzene	168	ND	>99%
Toluene	3,530	19	99.5%

**Total Threshold Limit Concentration, TTLC** (all units in ppm)

Untreated	Treated	% Removal	
Antimony	ND	ND	N/A
Arsenic	0.032	ND	>99%
Barium	5.64	ND	>99%
Beryllium	ND	ND	N/A
Cadmium	0.141	ND	>99%
Chromium, Total	2.65	0.025	99%
Cobalt	0.169	0.036	79%
Copper	10.2	0.047	99.5%
Lead	4.51	0.015	99.7%
Mercury	ND	ND	N/A
Molybdenum	4.79	1.41	70.6%
Nickel	3.05	0.436	85.7%
Selenium	ND	ND	N/A
Silver	0.039	ND	>99%
Thallium	ND	ND	N/A
Vanadium	0.167	ND	>99%
Zinc	74.1	0.645	99.1%



The picture of the treated and untreated water shows a drastic improvement over the previous coagulant/flocculant chemistry. The value of the Floc is the increased throughput in the facilities operation. Their previous process required a 12hour settling time to be able to start the decanting process. They now can start decanting in 30 minutes.

