



Teflon (PTFE) Coating Operation

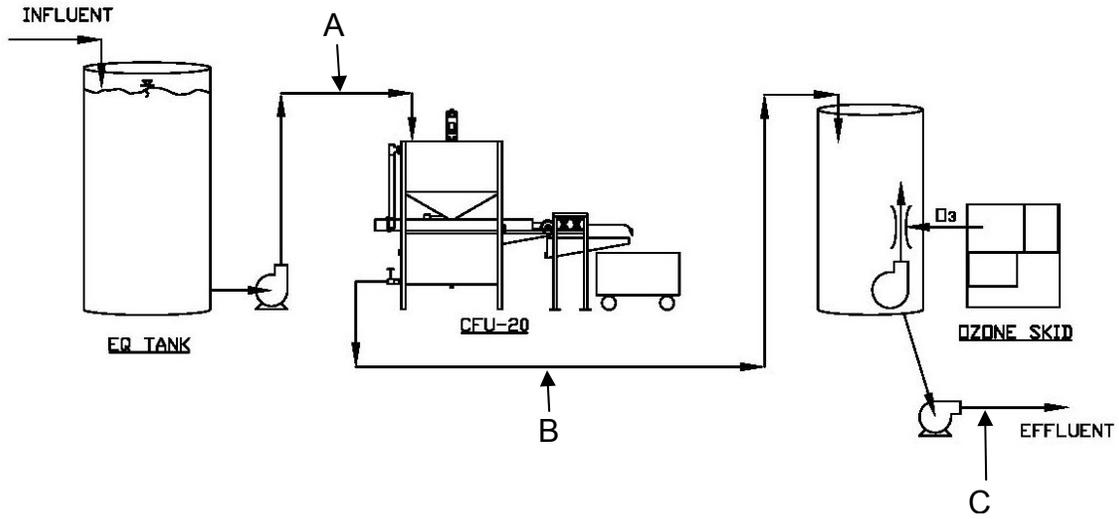
A manufacturer of Teflon coated products contacted Integrated Engineers seeking a solution to their wastewater problems. They were generating 3,500 gallons of wastewater each week that had to be hauled off site. They were looking for a method to treat this water and reuse the treated water within their facility. Integrated Engineers performed treat ability studies of the wastewater and identified the FloccinAgent™ that would meet their goal.

Integrated Engineers designed, built, and installed a system to treat their wastewater. The system integrated existing holding tanks with a new equalizing tank where the water is mixed and aerated prior to treatment. The water from the equalizing tank is treated in a Continuous Flow Unit (CFU), where it is mixed with the FloccinAgent™ and then separated from the resulting sludge. The sludge is collected in a sludge cart for disposal, while the clean water from the CFU is directed to an ozone contact tank. In this tank the water is treated with ozone, generated by the ozone skid, to remove any remaining organics. The clean, treated water is then ready to enter the water reuse system.

The analytical results presented on the next page come from samples collected approximately one month after startup.



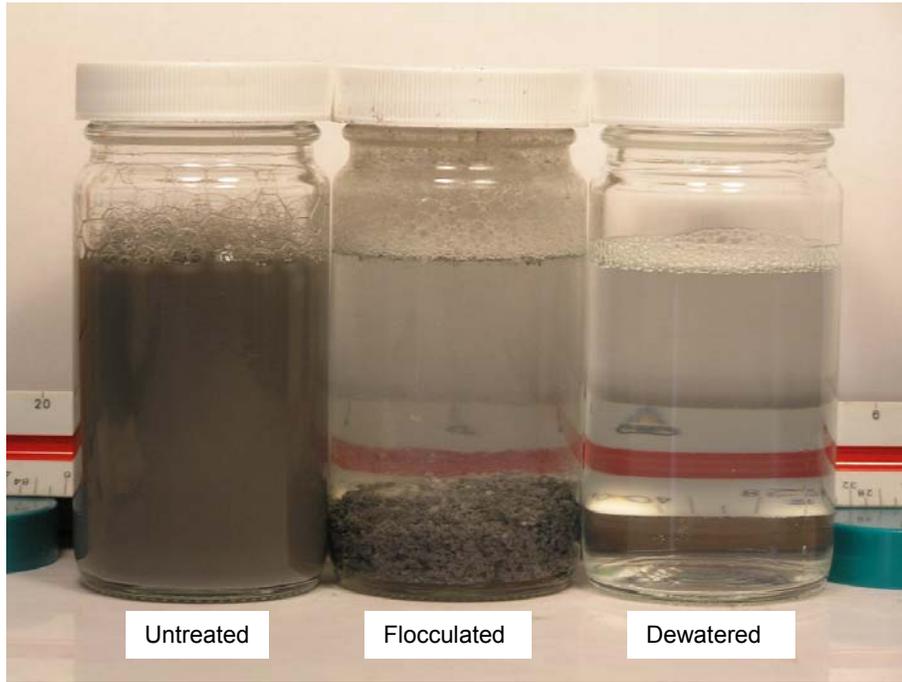
IE System & Operation Analytical Results



Location	BOD	COD	TDS	TSS
A (untreated)	2000	10600	31000	4200
B (Floccin treated)	1285	5800	800	89
C (post ozone)	62	130	460	26
Total reduction	96.9%	98.8%	98.5%	99.4%

BOD = Biological Oxygen Demand
TDS = Total Dissolved Solids

COD = Chemical Oxygen Demand
TSS = Total Suspended Solids



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