

Technical Bulletin #35

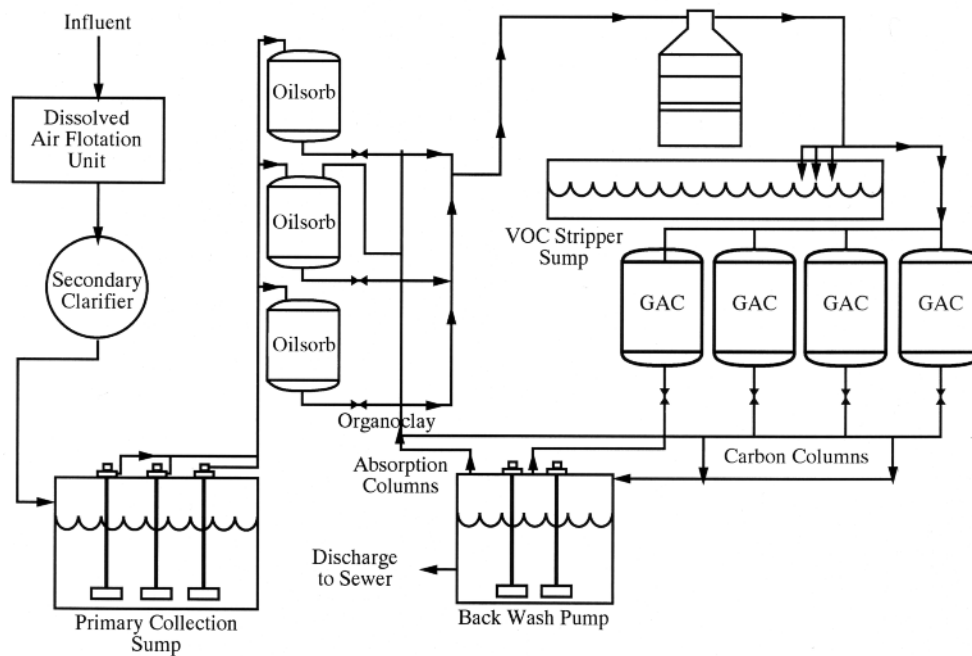
OILSORB: Hill Air Force Base Case History

The largest application for OILSORB was at Hill Air Force Base in Utah where three organoclay/anthracite mix tanks protect four granular activated carbon columns. The water that is processed is wash water from jet plane cleaning operations and storm water runoff. Paint stripping, degreasing and electroplating operations generate hydrocarbons such as oil, grease, tetrachloroethane; 1,1,2 -

trichloroethelene, chloroform, methylene chloride, and heavy metals which are also removed by use of organoclay. This system tends to last two years until changeout.

For more information, contact George Alther at Biomin Inc., (248) 544-2552, e-mail biomin@aol.com or visit www.biomininc.com.

Organoclay/anthracite (Oilsorb) removes oil and grease from air plane washwater.



Process Flow Diagram, Hills Air Force Base, Utah

Operation: Electroplating, Degreasing, Paint Stripping

Contaminants: Grease, Chlorinated Hydrocarbons, Oil (10-15 ppm) Total: 10-50 ppm. Heavy Metals (Cd, Ni, Cu, Cr).

Flow through rate: 350 gpm

Approximate cost of oil and grease removal: 55¢ - 65¢ per 1000 gallons waste water

Cost reduction by using Oilsorb plus carbon: 50%

Waste stream contains 25 ppm oil, flows at 5 gpm, 10 hours/day. Removal efficiency for GAC is 10%, for organoclay/anthracite it is 50% of its dry weight. Cost reduction/gallon by using clay/anthracite is 55%.

