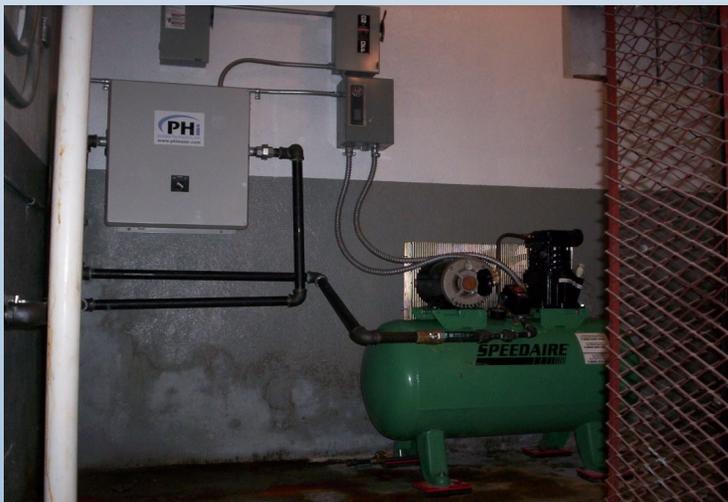




CITY OF DARIEN, CT PUMPING STATION GREASE BUSTING CASE STUDY



- Once the city's wastewater treatment plant, this facility now serves as a pumping station to push Darien's wastewater along to the treatment plant in Stamford, CT.
- This station is operated within a very narrow depth range, with a transducer to signal for pumps to come on and off, and floats to back up the transducer.
- The pumping station had been experiencing a large amount of grease buildup, to the point it was sometimes over a foot deep, and hard enough to stand on. The operators tried chemicals and mechanical mixers to no avail. They had to have it pumped out at a cost of \$1,800 whenever the grease cap interfered with station performance. This also required the trucks having to make three trips to deliver it to the Stamford WWTP.



They installed a PHi one valve mixer with a compressor at the plant, along with a novel way of adjusting the depth of the plate.



A flexible air hose connects from the PHi controller (on the other side of the wall) to a vertical pipe descending through a hole in the steel flooring in the center of the tank. The orange clamp can be loosened to allow the plate to be raised or lowered.

FOR INFORMATION:

Visit our Website at www.phewater.com, email info@phewater.com, call us at (800) 641-1726, or write us at 15 Oro Beach Dr., Oroville, WA 98844.



GREASE BUSTING CASE STUDY DARIEN, CT



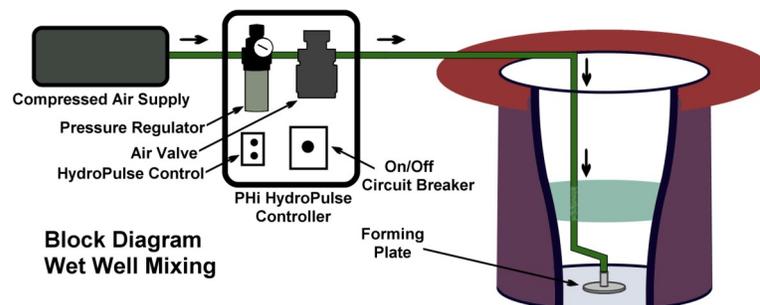
This shot was taken while they were pumping the tank down to nearly empty. A septic tank/grease trap hauler had just illegally dumped a truckload of grease down a manhole. The PHi mixer kept the grease in a liquid and broken state so it could be pumped along.



With the tank contents back to normal level, the PHi mixer was able to keep the grease cap from reforming at all. The operators pulse once per minute on a 24 hour basis.

The operators were very sensitive to allowing air from a pulse to enter the pumps. However, when they had pumped the tank nearly empty, we could see the Forming Plate was a couple of feet above the pump's suction point, so the plate was lowered another foot, which increased effective mixing an additional foot in every direction from the plate. The extra power of that mixing was immediately noticeable.

Darien's operators are very satisfied. Apparently the worst part about the pre-PHi days was when the tank was being pumped out...the odor was something to behold.



FOR INFORMATION:

Visit our Website at www.phewater.com, email info@phewater.com, call us at (800) 641-1726, or write us at 15 Oro Beach Dr., Oroville, WA 98844.