CASE STUDY 501

ODOR REDUCTION IN WASTEWATER COLLECTION SYSTEM

BACKGROUND

A wastewater collection system running through a suburban community had a strong hydrogen sulfide (H_2S) odor causing neighbors' complaints. The wastewater treatment plant tried different programs for odor control to address the complaints of the neighboring community. A ferrous sulfate treating program was tried unsuccessfully resulting in uninterrupted community complaints and high operational costs.

SOLUTION

- Q² Technologies was given the opportunity to implement the Enviro-Scrub® program. This custom-made program added a tote of our custom formulated chemical with a metering pump feeding directly into the lift station, as seen on diagram 1. The Enviro-Scrub® was fed into the lift station influent ahead of the baffle station.

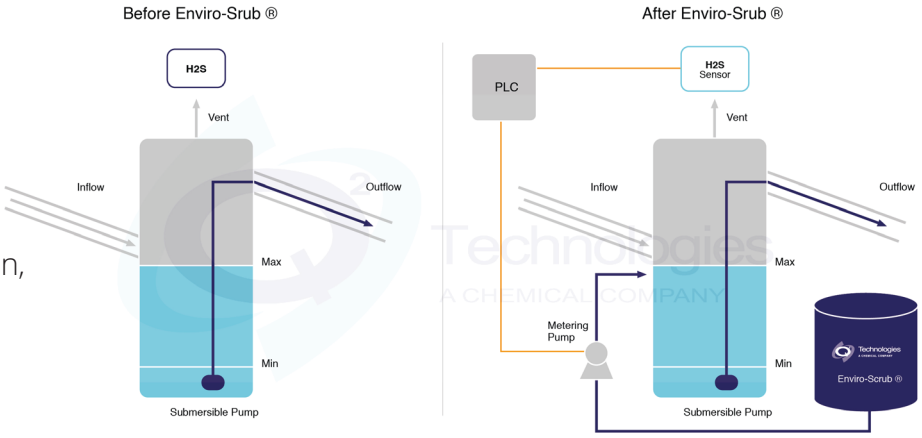

DIAGRAM 1. LIFT STATION

RESULTS

- The neighboring community has not presented any further complaints. Labor costs have been reduced given that the Enviro-Scrub® program supplies the scavenging chemical with a metering pump on a continuous basis.

CHALLENGES

- Reduce hydroden sulfide odor causing complaints from community members.
- A sulfate treating program was already implemented and results were not succesful.

TAKE-AWAYS:

- Eliminated odor complaints in neighborhood.
- Enviro-Scrub® is more cost effective than ferrous sulfate and magnesium hydroxide.