

CASE STUDY 501 | ENVIRONMENTAL | *Enviro-Scrub®*

ODOR REDUCTION IN WASTEWATER COLLECTION SYSTEM

BACKGROUND

A wastewater collection system running through a suburban community had a strong hydrogen sulfide (H₂S) 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.

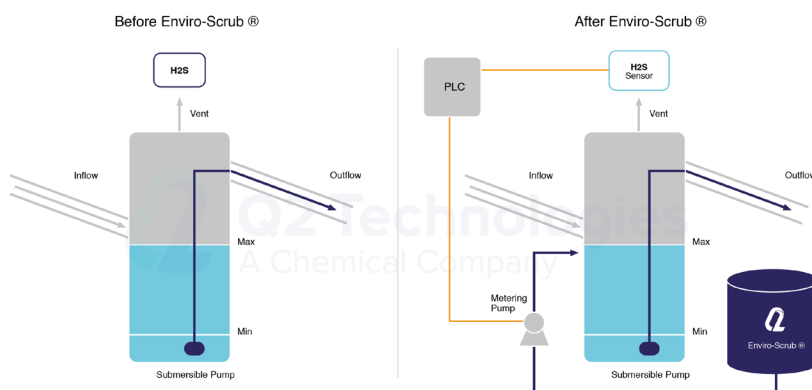


DIAGRAM 1. LIFT STATION

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

TAKE-AWAYS:

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