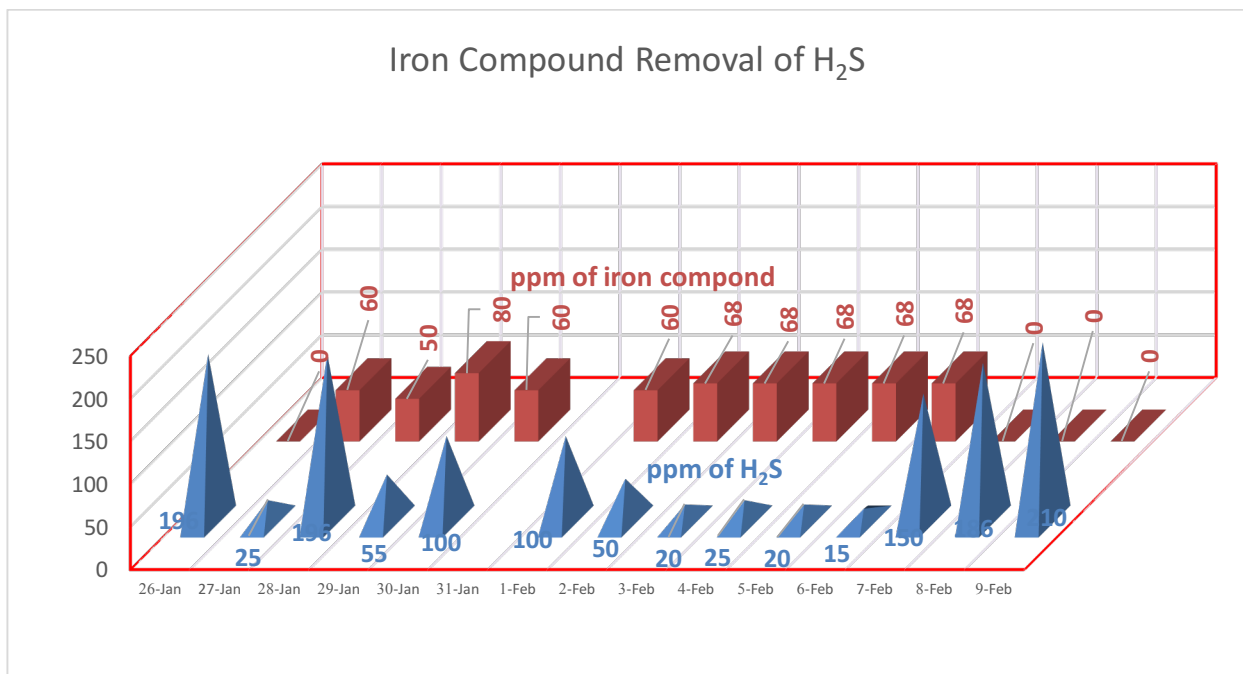


## The use of ENVIRO-SCRUB® BIO bio-nutrient to prevent the formation of H<sub>2</sub>S

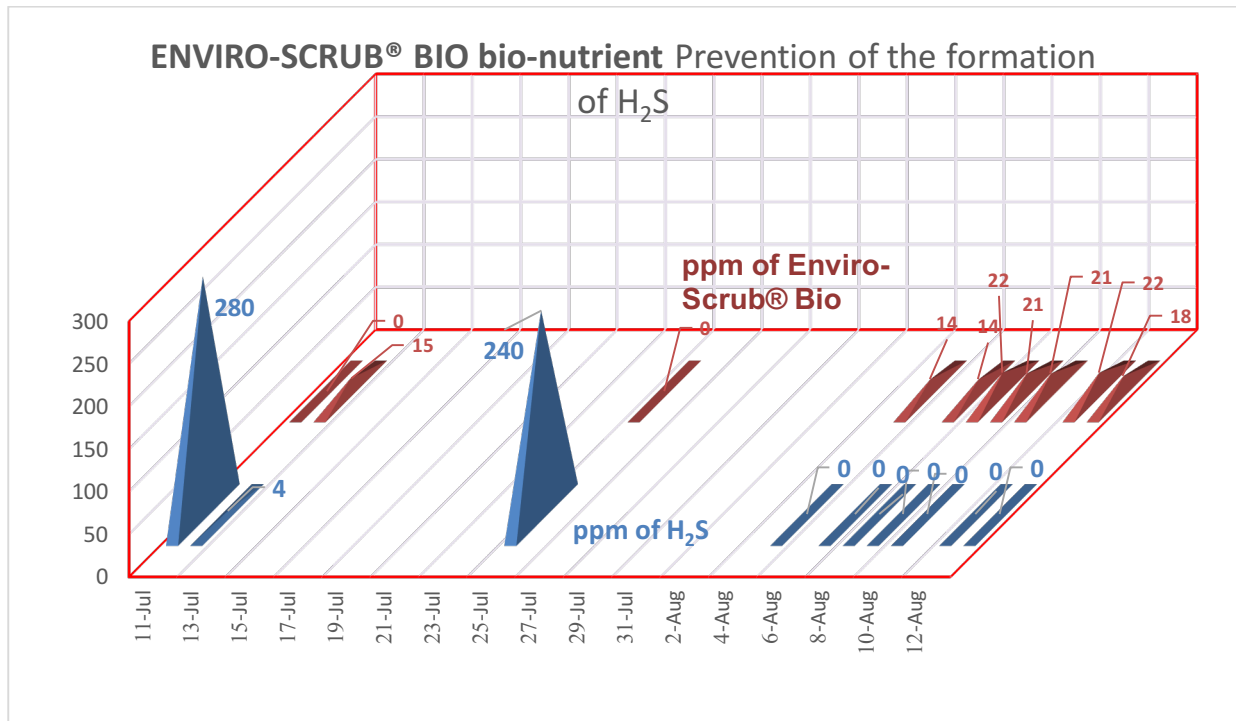
A lift station in South Central Texas was using ferric iron compound to reduce the H<sub>2</sub>S.

The H<sub>2</sub>S is typically 210 PPM but lower levels are observed and noted. High levels of H<sub>2</sub>S present a danger to people – either employees or others exposed to the H<sub>2</sub>S in air. The following chart shows the results obtained utilizing the iron compound.



At a rate of 68 ppm iron compound, the H<sub>2</sub>S was reduced to 20 parts per million at best. Most days the H<sub>2</sub>S level after treating with the iron compound was significantly higher than 20 ppm. According to OSHA Regulations, 20 ppm is the legal maximum that personnel can be safely exposed to. Results were inconsistent, with H<sub>2</sub>S often increasing to 100 ppm or more, despite the addition of the iron compound.

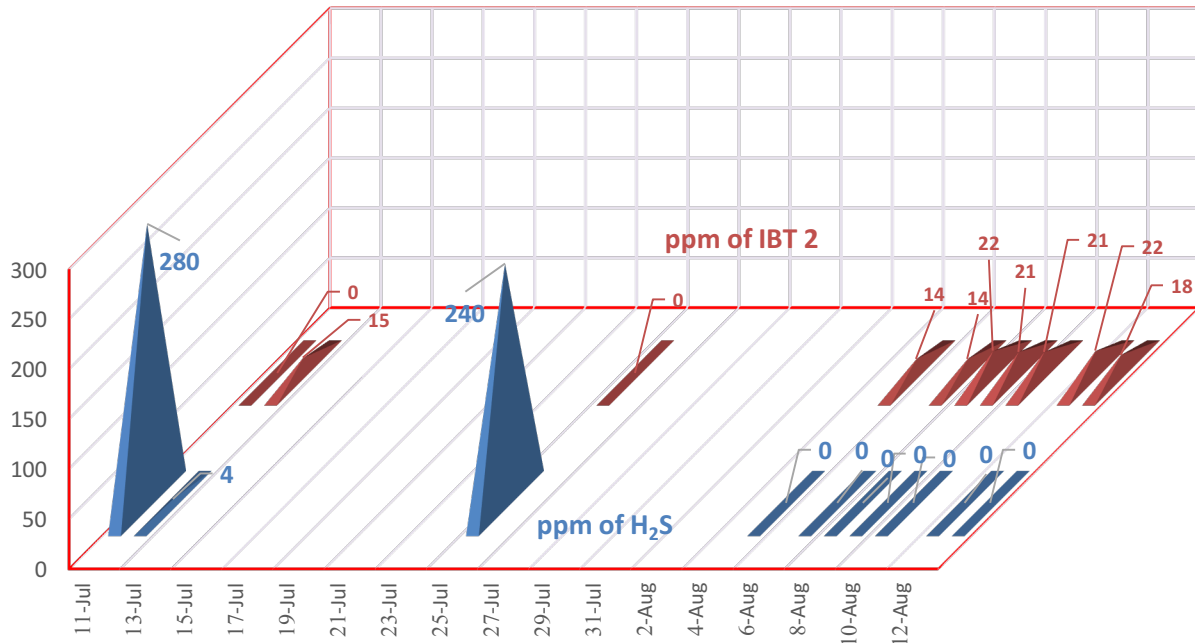
Q2 Technologies **ENVIRO-SCRUB® BIO** bio-nutrient was used in place of the iron compound to eliminate the presence of H<sub>2</sub>S. The following chart details the results.



The use of ENVIRO-SCRUB® BIO bio-nutrient began when the H<sub>2</sub>S levels were 280 ppm. ENVIRO-SCRUB® BIO bio-nutrient immediately reduced the H<sub>2</sub>S to 4 ppm. **ENVIRO-SCRUB® BIO bio-nutrient was injected continuously at dosage levels of between 14 to 20 ppm, and the H<sub>2</sub>S level reduced and maintained at zero. This effect is consistent for the entire eight days of the test.**

**ENVIRO-SCRUB® BIO bio-nutrient** does not scavenge the H<sub>2</sub>S, as is the function of the iron compound. **ENVIRO-SCRUB® BIO bio-nutrient** stops the formation of H<sub>2</sub>S from occurring by changing the method that the bacteria function to metabolize the organic wastes.

### IBT 2 Prevention of the formation of H<sub>2</sub>S



### Iron compound Removal of H<sub>2</sub>S

