CASE HISTORY

Complete decontamination of over 62,000 ppm \( \text{H}_2\text{S} \) in an SRU Sour Water Sump utilizing FQE\textsuperscript{®} \( \text{H}_2\text{S} \) Scavenger decreases outage time by over 95% in large Texas petroleum refinery.

Results Achieved

- Complete elimination of hydrogen sulfide level
- Over 95% reduction in outage time
- No personnel exposure to hazardous materials

Chemicals Utilized

FQE\textsuperscript{®} \( \text{H}_2\text{S} \) Scavenger

A large petroleum refinery in Texas used our hydrogen sulfide abatement product, FQE\textsuperscript{®} \( \text{H}_2\text{S} \) Scavenger, to decontaminate the sour water sump of the sulfur recovery unit (SRU).

The initial \( \text{H}_2\text{S} \) readings from the sour water sump exceeded 62,000 ppm (6.2%). A 10% FQE \( \text{H}_2\text{S} \) Scavenger mixture in water was prepared and added to a vacuum truck. The sump contents were vacuumed into the truck containing the FQE \( \text{H}_2\text{S} \) Scavenger. The truck contents were sampled five minutes later with the \( \text{H}_2\text{S} \) being reported at 0 ppm. A 10% solution of FQE \( \text{H}_2\text{S} \) Scavenger was added to the sour water sump to treat the solids within. The liquid was circulated for 10 minutes and then sampled. There was 0 ppm hydrogen sulfide detected in the sump solids. They were disposed in the plant without an \( \text{H}_2\text{S} \) release.

Typically, this process is conducted by the slow addition of a strong oxidizing liquid over a 2-3 day period of time, resulting in extra time and additional disposal considerations being required.
Case Histories
Access a wide range of case histories to learn about the variety of applications our chemicals are utilized for.

fqechemicals.com/case-histories

White Papers
Our white papers provide deep insights into industry problems and how our innovative chemical products solve them.

fqechemicals.com/resources

Video Library
View videos from our lab where we have tested a range of client samples to show how effective our chemicals are.

fqechemicals.com/videos