

CASE # 1

Project Overview:

Landfill with high H₂S concentration needed to lower SO₂ emissions

Site Conditions

Gas flow rate	2,500 SCFM
H ₂ S Concentration	26,000 PPM
Relative Humidity	100% Saturated
Oxygen Concentration	.5% to .9%



FerroSorp loaded in 10 vacuum boxes



Used FerroSorp being vacuumed out

Solution

Replace iron oxide based media with FerroSorp iron hydroxide media in existing vacuum roll off boxes

Results

Side by side test of both medias was performed

FerroSorp	Iron oxide media
<ul style="list-style-type: none"> 10,000 lb/vessel (35 lb/ft³) Removed 6,802 pounds of H₂S/Sulfur - 68% removal rate Operating Time: 16 days 	<ul style="list-style-type: none"> 22,000 lb/vessel (70 lb/ft³) Removed 863 pounds of H₂S/Sulfur - 3.9% removal rate Operating Time: 6 days

Conclusion:

- Switched to FerroSorp in all 10 vessels
- Reduced number of changeouts by 2/3
- Experienced 1/3 site downtime

CASE # 2

Project Overview:

Landfill with high flow rate using large amounts of iron oxide media

Site Conditions

Gas flow rate	6,000 SCFM
H ₂ S Concentration	3,300 PPM
Relative Humidity	100% Saturated
Oxygen Concentration	1.2%



40,000 pounds of FerroSorp per vessel

Solution

Replace iron oxide based media with FerroSorp iron hydroxide media in 6 existing large vessels

Results

Media lasted longer and removed more H₂S than iron oxide material

Pressure drop improved dramatically due to non clumping

FerroSorp recommended and used at other locations

Conclusion:

- Switched to FerroSorp in all 6 vessels on site
- Reduced number of changeouts
- Significantly reduced downtime
- Expanded FerroSorp use to multiple locations