

# Successful Applications

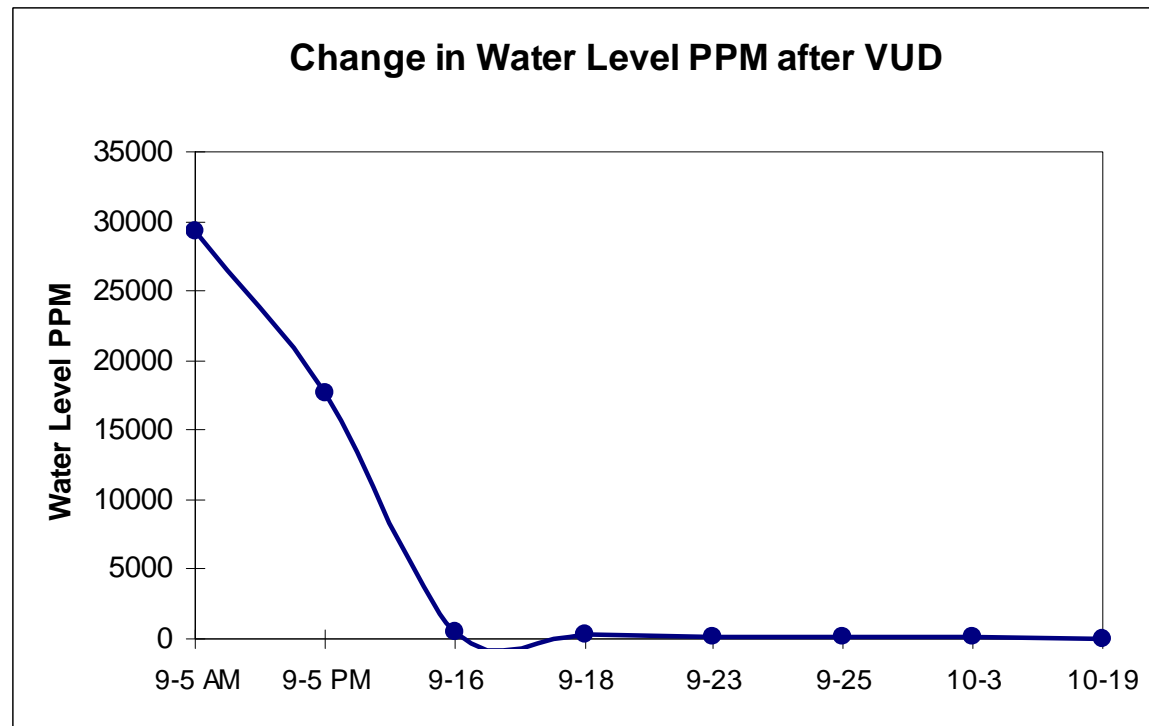
## Vacuum Dehydration - Steel Mill Lube Oil



- Rolling mill lubrication system 8,000 gallon reservoir
- 2.9% water in oil (29,000 ppm)
- Rolling mill oil consumption 72,000 oil per year
- Water decanted from reservoir bottom daily

# Successful Applications

## Vacuum Dehydration - Steel Mill Lube Oil



- Water level dropped from 29,215 ppm to 17,735 ppm in < 1 shift
- Water level dropped from 29,215 to 383 in 2 weeks
- No longer decanting oil from reservoir
- No longer leaking around roll stand gearbox labyrinth seals

# Successful Applications

## Vacuum Dehydration - Steel Mill Lube Oil



- Oil consumption cut by ~35% (25,200 gallons per year at ~\$8 per gallon)
- No longer topping off lube reservoirs or leaking around seals
- Cost savings \$201,600 just by minimizing oil consumption (decanting)
- Oil consumption is now limited to roll stand change-outs
- Decanted water with tramp oil drained into containment pond
- Lost oil had to be recovered from pond (environmental requirements)
- After VUD, pond oil recovery efforts are way down