

## CLEANING THE FRAC TANK

October 10, 2010

On September 7, 2010 we had Moran Environmental clean a 21000 gallon frac tank that had been used in an experiment to try to separate the water from the oil. In ship sludge, Moran's workers opened the man ways and ventilated the tank. Their men entered the tank and squeegeed the sludge on the bottom to the lowest discharge which had a vac truck hooked to it. The sludge was pushed and sucked out of the tank. SWR at a 20 to 1 mixture was applied to the tank walls, floor, and roof from a garden sprayer. The tank was allowed to rest for an hour while all had lunch. Moran then connected a one gallon SWR container to the hot water pressure washer. This was an automatic injection of the SWR to the wash water that could not be regulated. The SWR was in a 20 to 1 mixture. The washer was started and Moran began washing the tank from the top down. Fifteen minutes into the job there was so much steam that no one could see what they were doing. A decision was made to switch to cold water. The tank was cleaned in less than two hours. After the steam cleared it became apparent that the SWR cleaning was so complete that there was no oil residue left on the roof, walls, or floor of the tank. Moran's supervisor was surprised that the tank was much cleaner than when he cleaned one with Moran's standard cleaner HP50. After the cleaning, Moran's workers told us that they usually have a burning sensation in their eyes and on their skin from the HP50 cleaner. They said they had no burning after using the SWR. Moran's supervisor then told us that they had cleaned the tank in about 20% of the time it usually takes to clean a tank this size. He felt he had at least a 75% reduction in labor using the SWR. Since the flow of the washer is either on or off, there is no manual regulation of the amount of water used. We had saved 75% of the time, this means the washer ran 75% less and used 75% less water. It follows that there was 75% less oil water mixture to pay to dispose of. The saving of labor time cost and oil water disposal cost were huge on this project. Moran has asked to use SWR on their next tank cleaning job in Kinston, VA.

