



DEWATERING & WATER TREATMENT SERVICES VARIOUS LOCATIONS THROUGHOUT TEXAS & OKLAHOMA (& RAPIDLY EXPANDING!)

BRIEF DESCRIPTION OF PROJECT:

In 2017, a government entity and client of Wright Environmental Services' (Wright's) parent company, Green Star Environmental (Green Star), requested an innovative solution for addressing disposition of petroleum impacted tank pit water encountered during petroleum underground storage tank (UST) removal as an alternative to using a vacuum truck recovery and offsite transport/disposal service, an option that our client viewed as infeasible due to the associated costs. Since tank pit water is petroleum contact water, Green Star offered our client the option of permitting the facility for discharge to surface drainage under an applicable Texas general permit. Our client was enthusiastic to try this new approach, and thus began Green Star/Wright's endeavor to provide dewatering and water treatment services to our clients.



PROJECT DETAILS AND RESULTS:

Green Star obtained a Texas general permit for the facility to discharge water meeting permit-specified water quality criteria to surface drainage at the Site. Since the tank pit water had been confirmed to be impacted, the water required treatment prior to discharge at the Site. Green Star fabricated a mobile activated carbon treatment unit capable of dewatering, filtering, and treating petroleum impacted water at a rate of up to 20 gallons per minute (gpm). The tank pit water at the Site was recovered, filtered, and treated using the activated carbon system and discharged to the surface drainage, a roadside drainage ditch bordering the Site. Dewatering and water treatment activities were a success, and tank removal activities were able to proceed after the water was removed from the tank hold. Our client found the process to be highly efficient and relatively inexpensive in comparison to traditional vacuum truck and offsite transport/disposal options.



Wright soon marketed the same scope of services to numerous petroleum retailers and a major national truck stop client to address petroleum contact water encountered during UST system repairs and upgrades and has had the opportunity to provide our services at many locations throughout Texas and Oklahoma. Wright is pleased to highlight that our clients have appreciated the effectiveness and efficiency of our dewatering and water treatment services so much that they have inquired about similar applications in Louisiana and Arkansas and have recently requested for us to extend our services to locations in New Mexico and Iowa. The success we have been fortunate to see does not stop there. Wright has gained the business of many more clients including UST contractors, UST system testers, and small to medium-sized service stations whom we provide with dewatering and water treatment services as needed.



SERVICE APPLICATIONS:

Most state environmental agencies Wright has researched have made available to facilities with petroleum contact water a general permit mechanism that authorizes discharge of water meeting the permit-specified effluent water quality criteria to surface water. Wright is able to offer a variety of dewatering and water treatment solutions to our clients in multiple states. Additionally, Wright now owns a fleet of self-fabricated mobile water treatment systems which we can use to filter and treat water with activated carbon prior to discharge when this option is needed, including in cases where the water is known to be impacted and cases where there is not time and/or space to confirm whether the water is clean prior to discharge. **Wright's water treatment capability ranges from 20 gpm to 100 gpm.** Wright's services are highly cost-effective in comparison to the traditional vacuum truck recovery, transport, and disposal option, specifically in scenarios where upwards of 10,000 gallons of water is generated. Our services also offer continuity of pumping and discharging water, allowing us to be highly effective in scenarios with high water tables and/or tank pits/excavations with significant rates of recharge, as opposed to the start/stop nature of vacuum truck recovery and disposal.

The following provides some examples of scenarios in which our services might provide a welcomed solution for potential petroleum contact water:

- UST system testing
- UST system repairs
- UST system installation and removal
- Construction requiring excavation in areas with known petroleum impacted soil and/or groundwater and a high water table and/or significant recharge

