

**For Immediate Release from**

# Highland Tank®

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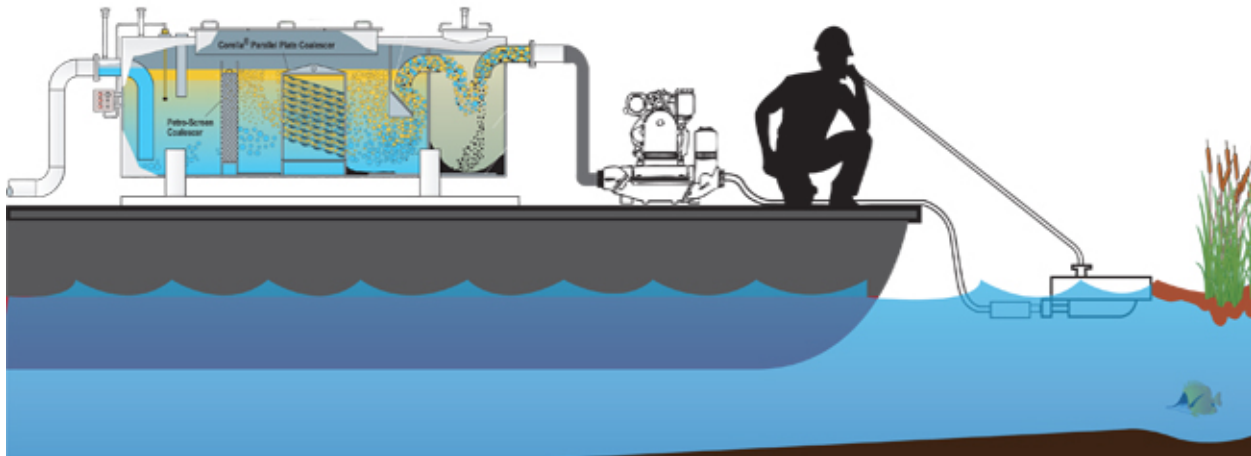
## Highland Tank Oil/Water Separators for Gulf Spill Cleanup

Highland Tank Oil/Water Separators are designed to work on the Gulf Coast to assist in the cleanup efforts relating to the Deepwater Horizon oil spill disaster.

Highland Tank Oil/Water Separators are self-contained, automatic systems used for treatment of oily wastewater. These patented units incorporate self-cleaning Corella® coalescing packs to promote oil globule coalescence used to enhance the conventional gravity separation process.

Highland Oil/Water Separators are skid mounted and can be located on a boat, barge, beach, or pier side to treat oily wastewater skimmed of the sea surface or off-loaded from clean-up ships. Highland Separators can be constructed from either stainless steel or carbon steel protected with a variety of coating systems for salt-water environments. The oil/water separator is provided with a metal catwalk with railings for operator safety during operation and maintenance of the unit.

### Highland Tank® Corella® Oil/Water Separator for Oil Spill Clean-Up



Highland separators are durable and simple to operate, requiring a minimum level of operator sophistication. The selection of the appropriate type of separator depends on the amount of wastewater to be treated and the treatment objectives. Cylindrical oil/water separator volumes range from 350 to 60,000 gallons with flow rates ranging from 35 to 6,000 gal. /min., respectively. The cylindrical/closed vessel design resists loss of separation efficiency due to rolling and pitching on board the vessel. Rectangular oil/water separator volumes range from 100 to 30,000 gallons with flow rates ranging from 5 to 3,000 gal. /min., respectively. Additionally, smaller units of 12,000 gallons or less can be assembled for easy transportation and offloading.

Oil/water mixtures are separated in the unit by a combination of conventional gravity separation and by enhanced coalescence in the Corella® coalescing packs. These two steps take place in a single separation chamber.

Highland's patented Corella® is a unique separation device which comprises a packed module of specially arranged inclined parallel flat and corrugated plates that enlarge the effective separation surface area.

The advantage of the flat top plate is its ability to resist clogging and clotting with solids. The corrugations of each of the plate bottoms are shaped and positioned to enhance collisions between the rising oil droplets and coalescence between them, thereby improving separator efficiency. The Corella® is designed to simultaneously allow settleable solids to slide off the top of the plates while allowing for the coalescence of oil on the bottom of the plates. Since the rate of separation of oil from water is directly proportional to the square of droplet diameter plate coalescing is the simplest and most significant action which can be taken to separate an oil/water mix.

Oil is retained in the units by a baffle located upstream of a fixed level control device. The oil is removed from the unit by pumping or skimming the surface with a variety of devices, which are specifically designed for this purpose. Selection of a pumping or skimming device depends on the amount of the oil to be removed. Both manual and automatic skimming devices are available. Some units incorporate a hopper-type bottom for accumulation and ultimate discharge of settled material. Sludge blow down from the bottom hoppers can be automated. Recovered oil and sludge is generally transferred to holding tanks for storage before disposal.

Additional processing of wastewater containing high levels of heavy metals or dissolved organic chemicals is accomplished with the addition of Highland's Advanced Hydrocarbon Filtration Systems. Please refer to the attached Highland Tank Wastewater Treatment System catalogue [pp. 24 - 27 (OWS) and pp. 40 - 41 (AHFS)] for equipment choices and details.

Although more complex than the Sand/Oil/Water Interceptors, in light of the Gulf oil spill emergency, we can rapidly field this equipment for the Gulf waters cleanup in a few weeks.

Highland Tank Oil/Water Separators are mass produced at four of our factories allowing for hundreds of these high performance wastewater treatment tanks to be available rapidly for spill cleanup.

***"Highland Tank Oil/Water Interceptors - Cleaning the Gulf, One Drop at a Time!"***

**Call today for more information or visit us at [www.highlandtank.com](http://www.highlandtank.com) for complete Wastewater Treatment Systems information. You can also download all of our new catalogs at: <http://www.highlandtank.com/Resources/DocSearch.asp>**