



Photo1: Version 1 - showing both stake options, 1 1/2" x 1 1/2" x 24" wood stake with 1/2" hole at the top. Other option is a metal corkscrew anchor.



Photo2: One option is to insert the anchors/stakes above the tide line as shown here in this photo.



Photo 3: Another option is to insert the anchors/stakes in the shallow surf so the Oil Blanket can float on the beachside or back across to the ocean side of the stakes. Moving the stakes may or may not be needed throughout the day based on tidal ranges.



Photo 4: This photo shows 25' tethers, 50' tethers were also used. Length can be made to customer need.



Photo 5: Ultra-X-Tex is somewhat of a neutral buoyancy and tends to float between the surface and just under. This allows the X-Tex to pull out emulsified oils that have been broken up by the surf action and the surfactants (dispersing agents) that have been extensively used on the oil slick.

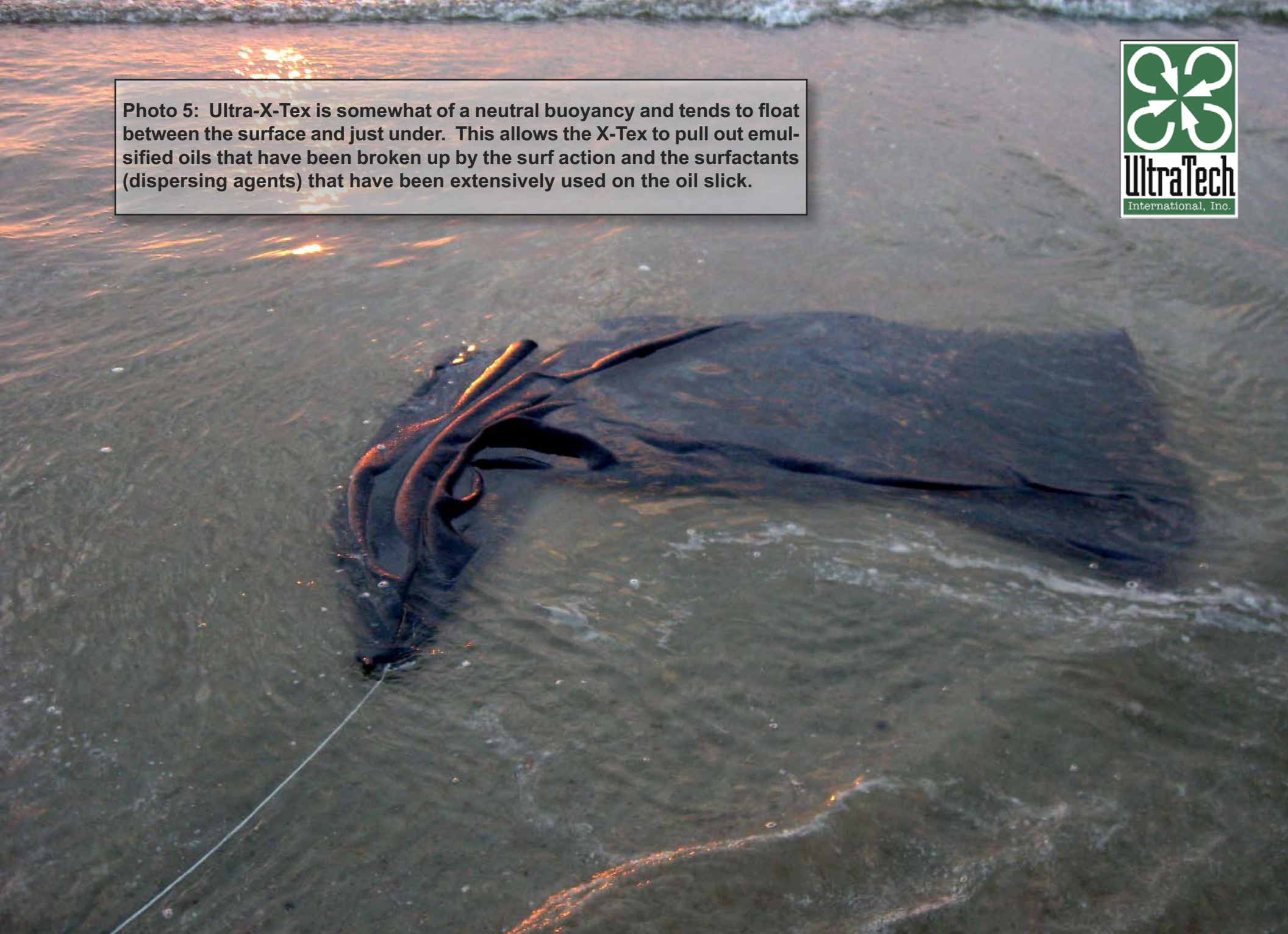




Photo 6: The use of surfactants (dispersing agents) emulsifies the oil so it's no longer on the surface but the oil is still in the ocean water moving toward shore. Many of these dispersants are hydrocarbon based as well. As these emulsified oils hit the shoreline they will re-coagulate and become more visible.

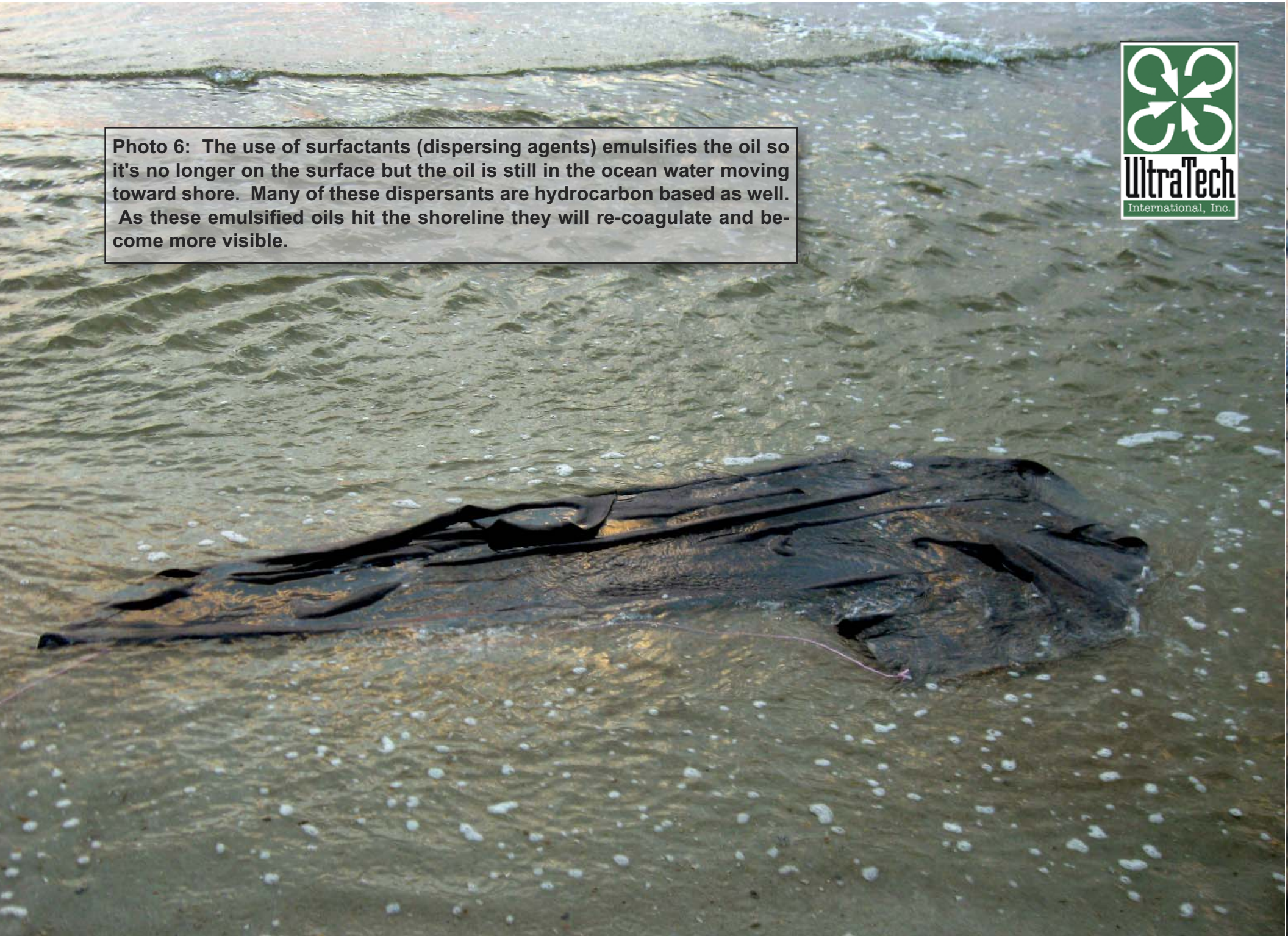


Photo 7: The Ultra-Oil Blanket, Surf Model is designed to wash back and forth with the wave action and the tide.





Photo 8: 10' x 5' - The Ultra-Oil Blanket weighs approx 20 lbs. when saturated with oil, holding approx 16 gallons of oil per Oil Blanket.




A large, dark, rectangular oil absorbent blanket is laid out on a sandy beach. The blanket is partially submerged in the shallow surf, with waves breaking over it. The blanket appears to be made of a heavy, dark material, possibly polypropylene, and is designed to absorb oil spills. The beach is sandy and the water is a light brown color, indicating the presence of oil. The blanket is being used to contain and absorb the oil spill.

Photo 9: The Ultra-Oil Blanket can offer an important advantage by infusing Ultra-Microbes into the absorbent material and allow these oil-eating microbes to immediately begin to transform the oil into non-hazardous components. The microbes will also become distributed throughout the surf and the beach / shoreline allowing the microbe colonies to grow and remediate oil throughout the surf and the beach.



Photo 10: The Ultra-X-Tex material is hydrophilic. It will absorb both oil and water but has an affinity for oil and will release the water molecules in exchange for an oil molecule. This is a unique feature of X-Tex that differentiates it from typical polypropylene-based absorbents.

Photo 11: Version 2 utilizes foam floats at the corners where the Oil Blanket is tethered. This may be a preferred option as it keeps one end at the surface and allows greater movement with the waves.





Photo 12: This angle shows a view from the ocean back to the beach.

Photo 13: Close up view of concept of foam at edge of Oil Blanket




A large, dark, rectangular oil blanket is being deployed in the ocean. The blanket is partially submerged, with waves breaking over it. The blanket is held in place by a white rope and a black float. The water is a murky brown color, and the sky is overcast.

Photo 14: Saturation of the Oil Blanket will occur quickly as 16 gallons of oils becomes absorbed, the units will need to be changed out for maximum protection. The stakes and tethers (and floats if used) can be reused and replacement Oil Blankets would be deployed as needed.



Photo 15: The Ultra-Oil Blanket is the last line of defense. Every gallon of oil absorbed prior to hitting the beach will have a significant effect on the environment and long-term cost. Utilizing Ultra-Microbes both infused into the Oil Blanket and sprayed on the surf and shoreline / beach provides the ultimate combination of oil absorption and nature's bioremediation process to address the challenges of an oil spill.



When dealing with marshes, wetlands or still water, UltraTech can offer a silt fence concept where the fencing is made of X-Tex. Each square foot will absorb 1/3 of a gallon of oil and the areas to be protected could have this material installed as a final barrier against sheens and emulsified oils. 2 to 4 foot high fencing is available.