



Customer Profile: Dunton Environmental

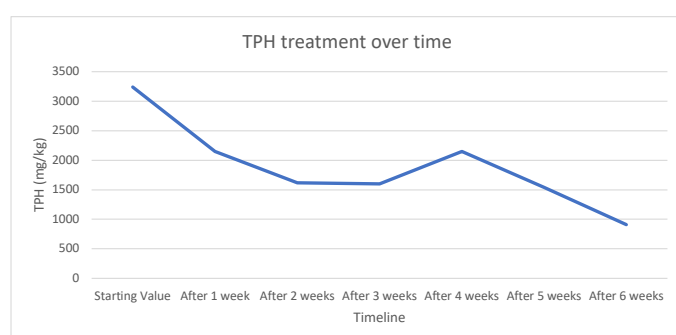
Dunton Environmental - they challenge traditional thinking in the construction industry and continuously develop new ideas to solve complex environmental ground and contamination problems to deliver their clients real programme and cost benefits. Services include remediation contracting, waste management, Japanese knotweed treatment, soil & water treatment as well as contaminated land assessments.

CHALLENGE

To efficiently & safely accelerate the reduction in TPH levels of hydrocarbon contaminated soils onsite in order to enable their future use. The soil is initially screened to remove any builder's rubble and deleterious materials. It is then treated according to the chemical nature of the soils, either by way of: accelerated bioremediation to degrade any residual organic pollutants such as TPH and PAH (including Benzo (a) pyrene); or by the addition of Dunton's chemical oxidation compounds which induce chemical reduction.

OSE II SOLUTION

The Dunton team were interested to understand how effective Oil Spill Eater II (OSE II) could be at accelerating the bioremediation of hydrocarbons & ran an evaluation on an initial small quantity of contaminated soil. The accelerated reduction in TPH values met Dunton's requirements & they agreed to implement the use of OSE II on larger scale bioremediation of hydrocarbon contaminated ex-situ soil stockpiles.



APPLICATION Chemical pollutants

Hydrocarbon contaminants are common on most brownfield developments, often the result of former works, in ground tanks or similar. Dunton has developed a rapid treatment technology for a wide variety of chemical pollutants in soils.
<https://duntonenvironmental.com/services/bioremediation/>

APPLICATION METHOD

Using a combination of OSE II with natural water, this is then sprayed towards soils that are being aerated to improve the oxygen levels within the soils which along with OSE II improve the conditions for microorganisms to naturally grow within the soils. This increase in microbial activity within the soils accelerates the biodegradation of hydrocarbons with the end result only being CO₂ & water.



RESULTS

As a result of using OSE II to reduce the TPH & PAH contamination levels within hazardous soils from a variety of sites across the UK it has provided Dunton's clients with a more efficient and quicker form of treating their contaminated soils providing them a cost benefit and a certainty that they can meet their project's timeline. All treated contaminated soils are re-used for various restoration projects in the local area to contribute towards a circular economy and improving sustainability within the construction sector.

