



Ground Remediation Systems Limited

Reference - Groundwater
Pump & Treat and SIPEX
Product Skimming System

Soil and Groundwater Remediation

Water Treatment

Vapour Treatment

Design & Supply

Installation & Commissioning

Operation and Control

Project Management



For a
cleaner
world

A vertical banner image showing a clear blue sky with scattered white clouds, a calm blue sea, and a foreground of green grass. The text 'For a cleaner world' is overlaid in white, sans-serif font at the bottom of the image.



Reference - Groundwater Pump & Treat and SIPEX Skimming System



Task	Remediation of fractured chalk bedrock aquifer
Contaminants	Creosote & Pesticides
Location	Sittongboure, Kent
Client	Environment Agency/Entec UK Ltd.
Period of Operation	2002 >Ongoing
Technical Process	Frequency controlled submersible pumps and the GRS EX rated SIPEX free phase (LNAPL) skimmer system, oil/water separation, particulate filtration & GAC
Flowe	20 m ³ /hr

Project Description

GRS has supplied and installed a system for the abstraction of free-phase floating creosote contamination. The system comprises frequency controlled submersible pumps for precise hydraulic control and our motorised interface tracking system which, due to large local water table fluctuations, was modified to provide a product/water interface tracking range of 5m.

Abstracted groundwater is pumped to a coalescent separator for solids settlement and oil separation and is then boosted through a particulate filter and two 5 tonne granular activated carbon vessels to remove the dissolved phase petroleum hydrocarbon and pesticides contamination.

The system is equipped with telemetry to facilitate remote monitoring and break down call out.