

## fact sheet

### Arvia® Groundwater Remediation



#### Groundwater is an important component in the water cycle and groundwater remediation projects are becoming increasingly prevalent.

Land remediation is rarely inexpensive, and the increased scarcity and cost of landfill along with higher haulage and energy overheads have further inflated project costs and made contractors, and clients, ever more mindful of the 'bottom line'.

This makes selecting the best and most cost effective technology for each project ever more essential. Enter Arvia® Technology and its revolutionary new water treatment method for ex-situ pump-and-treat groundwater remediation.

#### Arvia® and Groundwater

Arvia's groundbreaking treatment unit can plug into a 'pump and treat' remediation cycle as a direct replacement for traditional Granular Activated Carbon and offer a significant and proven cost saving.

Not only does Arvia's process produce **ZERO** solid or liquid waste, but the process also requires **ZERO** process chemicals, meaning there is **ZERO** waste for disposal and **ZERO** refill costs.

How is this achieved in a single integrated unit? Through capturing and concentrating the organic pollutants using Nyx®, Arvia's patented reusable adsorption material, and then destroying them in a low power electrochemical process.

Arvia® can destroy a wide range of contaminants commonly targeted with pump-and-treat technologies, including hydrocarbons (oils and fuels), chlorinated solvents and pesticides.

The process is also by nature low-carbon and, because it's all housed in a single unit, it's easy to transport on and off site.

#### Sustainable Remediation (SuRF UK) / Green Remediation (US EPA)

Arvia® helps to address:

- ✓ Use of natural resources
- ✓ Use of energy efficiently
- ✓ Reduce negative impacts on the environment
- ✓ Minimizing or eliminating pollution at source
- ✓ Reducing waste to the greatest extent possible



## About Arvia® Technology

Arvia Technology is an innovator in the way water and wastewater is treated, headquartered in the North West of England. Arvia® has evolved its multi award-winning, waste-free water treatment method into a market changing solution, described by some industry experts as 'rewriting the water treatment rulebook'.

## Who should know about Arvia®?

Those responsible for buying, supplying solutions or consultancy on groundwater remediation. Nobody else can do what Arvia® does, because nobody else possesses this groundbreaking technology – so nobody else can deliver the same level of cost savings and carbon footprint reductions.



### Rewriting the water treatment rulebook:

- ✓ ZERO waste
- ✓ ZERO chemicals
- ✓ ZERO landfill
- ✓ ZERO refill

Get in touch today and discover how Arvia® Technology can change the way you treat groundwater.

**CL:AIRE**  
 CONTAMINATED LAND: APPLICATIONS IN REAL ENVIRONMENTS

CL:AIRE Technology Demonstration Project TDP31: Demonstration of the Arvia® Process of adsorption coupled with electrochemical regeneration for the on-site destruction of organic contaminants in groundwaters.



International Sustainability Innovation Award Winners 2009



Award for Water Innovation 2006



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