

# Reading Gasworks

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| Site Area:  | 2.4 Hectares                             |
| Former Use: | Gasworks                                 |
| Client:     | Confidential                             |
| Value:      | £5,000,000 (Pump & Treat Phase £300,000) |

Provectus were commissioned by our client to remediate the former Gasworks facility in Reading. In summary, the site's history has been part of a larger gas works, later becoming used as a depot facility and offices.

- The site is underlain by Made Ground over River Terrace Deposits and Alluvium over Upper Chalk;
- The River Terrace Deposits are classified as a Minor Aquifer.
- The Upper Chalk is classified as a Major Aquifer. The site lies within an outer groundwater Source Protection Zone (SPZ);
- The River Thames is approximately 225m offsite to the north;
- The canalised River Kennet is approximately 30m offsite to the south east.
- Previous phases of site investigation and risk assessment had identified elevated levels of contamination associated with the former use as gasworks
- A Remedial Options Appraisal was produced for the site and final remedial proposals were agreed with the regulatory authorities
- Following this the site was subject to remedial works completed by ourselves.

Remedial works included the following:

- Full demolition of site structures, including all foundations up to 4m below ground level
- Offsite ex-situ bioremediation was undertaken on hazardous soils where encountered
- Site investigation works had found elevated levels of petroleum hydrocarbons within the groundwater on site.



The following Groundwater Treatment System was designed and installed :

- Installation of 8 groundwater extraction wells within the contaminated plume
- Installation of groundwater treatment system included suitable pumps, an oil water separator and granular activated carbon units

During treatment, extraction of approximately 1500m<sup>3</sup> of hydrocarbon contaminated groundwater was undertaken with treated waters discharged to foul sewer (under appropriate consent with Thames Water)

Compliance with the EA agreed remedial target was achieved through validation sampling of groundwater within the plume.

Following this Provectus undertook a rebound assessment which consisted of obtaining further groundwater samples to show that no significant rebound had occurred.

The site is now vacant, undergoing redevelopment for use as predominantly residential apartments.