

# Gas and Groundwater Monitoring

environmental • consultancy

**CLIENT : Amber Valley Borough Council**

**PROJECT TITLE : Site Investigation and Monitoring**

**CONTRACT PERIOD : 4 months**

ECUS designed and undertook a Phase 2 Site Investigation and then completed gas and groundwater monitoring over an extended period on behalf of Amber Valley Borough Council.

The work was commissioned to determine if the 28 hectare former landfill site was suitable for development as a camp site, camping barn and activity centre. An existing cottage was to remain on site and be used for residential purposes.

The site lies in the floodplain of the River Derwent and has been an area ear-marked for recreational use for some time.

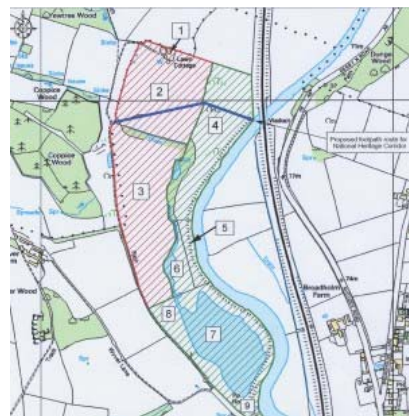
Gas and groundwater monitoring wells were installed during the Phase 2 Site Investigation in key locations to determine potential impacts on the identified receptors.

Members of the ECUS team completed regular gas monitoring within the installed standpipes looking principally for gases associated with waste decomposition. Groundwater monitoring and sampling were also undertaken on a regular basis. Water samples were also recovered from the near-by River Derwent.

Volatile hydrocarbon compounds, landfill gases and radon were identified as potential risks to the site end users. Recommendations were given for each particular sensitive location and the necessary gas protection measures were detailed according to current best practice.

Modelling and measurement suggested that contaminants within the waste mass were generally not migrating to ground or surface water at significant concentrations.

Throughout the works, ECUS maintained regular contact with the Local Authority and the Environment Agency. The investigation and on-going monitoring allowed the site to progress to the next planning stage of the development.



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