

Topographic Surveys and Mapping Services

Better Biodiversity by Design



Appropriate topographic and bathymetric surveys form a core element of successful habitat design and water level management planning. We offer a comprehensive range of technical support services to help you to deliver successful land and water management projects.

Our team are able to undertake land level, water level and sediment surveys using laser theodolites and GPS field equipment to deliver accurate and reliable levelling data for a range of design and planning purposes.

We are experienced in creating detailed site contour maps which are used in accurately determining suitable landscape and habitat design features, providing our clients with confidence that their desired outcomes will be met.

“Understanding the topography of landscapes is essential in designing successful habitat improvements.”

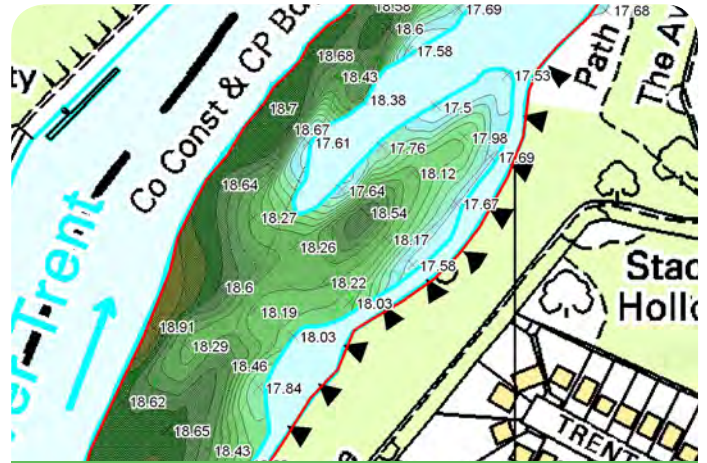
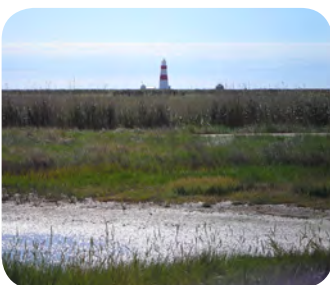
Our Services

Our services are employed in a wide range of situations. We regularly undertake field surveys for the Environment Agency, RSPB, Natural England and a range of other clients, measuring and recording the topography of the land and profiles/levels of adjacent waterbodies. Results are presented in contour maps which are suitable for submission alongside planning applications.

We are also able to offer design services for ponds and water bodies involving spoil calculations and detailed site plans.

Our services include:

- ✧ Topographic Levels Survey
- ✧ Water Level and Flow Regime Surveys
- ✧ Sediment and Bathymetric Surveys
- ✧ Profile Mapping of Watercourses
- ✧ Design and Spoil Calculations
- ✧ GIS and CAD Mapping
- ✧ Site Plans and Ownership Boundaries



Case Study: Environment Agency's (EA) East Midlands Fry Refuge Creation Project

The ecology of large lowland river systems such as the River Trent depends on the seasonal flood regime and inundations of the flood plain.

It is widely recognised that flood plain disconnection has occurred on the River Trent causing considerable degradation to riverine environments and their associated flora and fauna.

Therefore a number of successful projects have been undertaken to enhance floodplain connectivity. This project is in line with EA, UK and European targets for tackling climate change and enhancing/protecting the environment; whilst addressing the objectives of the Water Framework Directive.

The EA investigated the extension of areas of wetland and waterbodies connected to the river which are identified to be key to juvenile fish survival.

In order to progress with the habitat restoration, the EA required a detailed survey to determine the current topography and water levels to establish the hydraulic regime of selected sites.

The topographical and water level maps produced by OHES have allowed the EA to select appropriate sites for habitat enhancement.



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