



# *Environmental Impact Assessment*

FOR DEVELOPMENTS AND ACTIVITIES  
IN THE AQUATIC ENVIRONMENT

*Industry, commerce and leisure interests proposing developments in the aquatic environment are faced with increasingly stringent legislation requiring detailed assessment of environmental impact. CEFAS has 25 years experience in participating in environmental impact assessments and offers a full range of services tailored to meet specific client needs.*



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DISPOSAL AT SEA OF WASTE  
MATERIALS (E.G. DREDGED MATERIAL)  
MARINE AGGREGATE EXTRACTION  
BEACH NOURISHMENT  
COAST PROTECTION  
HARBOUR WORKS AND CONSTRUCTIONS  
LAYING PIPELINES AND CABLES  
NAVIGATION DREDGING  
OIL AND GAS EXPLORATION AND PRODUCTION  
DISCHARGE OF EFFLUENT  
RIVER HABITAT DEGRADATION

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Whether you are concerned about an existing activity or planning a new development, we can help you to prepare environmental assessments with expert assistance in:

- approaches to meeting existing national and international legislation
- balancing conflicting interests
- production of management/action plans
- assessment of impact on aquatic communities
- design and implementation of appropriate monitoring programmes
- data collection, interpretation and analysis
- information system based tools for environmental management
- disposal site selection
- beneficial use of dredged material

### *Expertise and experience*

CEFAS has over 25 years experience in technical and control measures for assessing the impact of human activities on marine, coastal, estuarine and freshwater ecosystems, and advising on management strategies encompassing all uses of the aquatic environment. Our advice has been widely used in formulating and implementing UK and international legislation and policy.

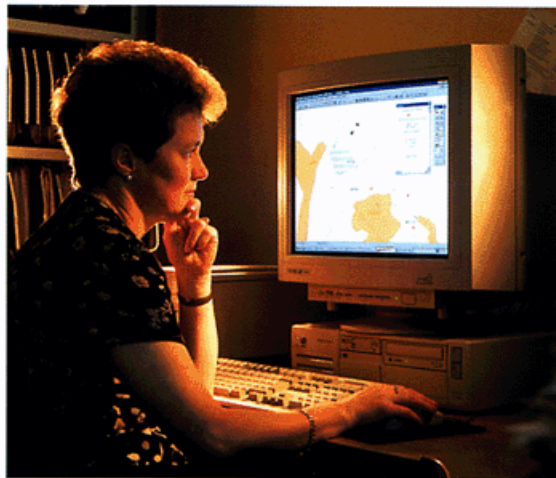
Our regulatory knowledge is backed up by leading edge research into environmental protection and fisheries management and by our extensive practical experience in the design, implementation and interpretation of environmental surveys. We can provide our clients with a comprehensive environmental impact assessment service. In particular we can offer services in:

### *Sediment transport and characterisation*

- sediment transport and deposition using tracers and localised water movements measurements
- dispersion modelling
- plume tracking
- consolidation and conditioning of seabed sediments
- seabed characterisation
- resuspension analysis
- sediment size, shape, density
- trace analysis, dispersion and fate of chemical and radionuclide contaminants associated with sediments

### *Biological Assessments*

- baseline information on the distribution and abundance of marine species
- impact of developments on fisheries resources
- benthic species identification and characterisation
- distribution of biota and sediments as an indicator of environmental quality
- bioassays for acute and chronic toxicity assessments
- ecological effects of sediment and contaminant transport and deposition



### *Design and implementation of environmental surveys*

- impact monitoring
- baseline surveys

### *For regulators and enforcers we can also advise on:*

- setting up and implementing monitoring control programmes
- management strategies
- management information systems incorporating Geographical Information Systems (GIS)
- technical and statutory measures
- establishing enforcement regimes
- compliance assessments
- assessing and evaluating environmental impact statements
- auditing the effectiveness of environmental management strategies

*For further information about any of our services or to discuss your needs with one of our specialists please contact*

