

Land Quality for Sustainable Management

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Sustainable Land Quality

Understanding land quality is important for resource management and environmental protection.

- The BGS Geochemical Baseline Survey of the Environment (G-BASE) provides information on the chemical quality of Scotland's surface environment for:
- Sustainable use of key soil/mineral resources
- Assessing nutrient deficiency risk for agricultural and food production
- Understanding sources of pollution
- Urban regeneration
- Mitigating climate change impacts
- State of the environment policy

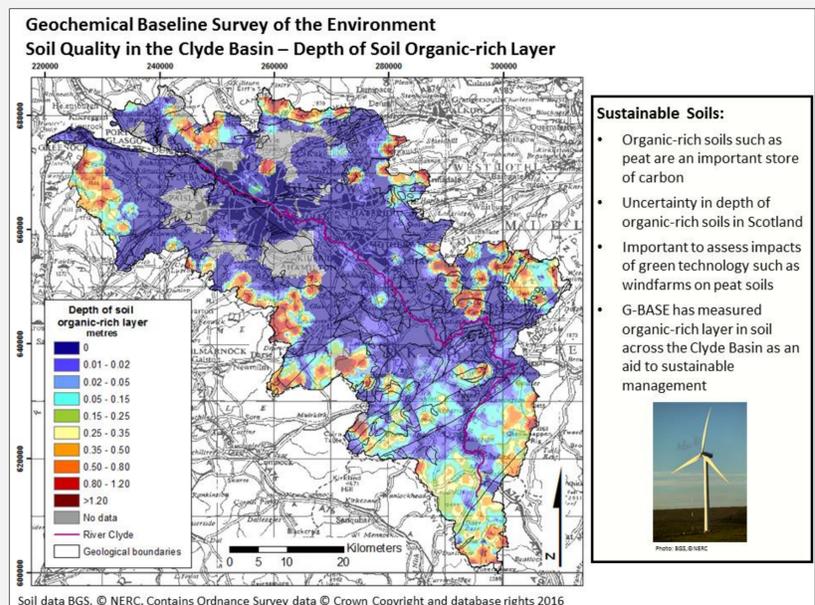
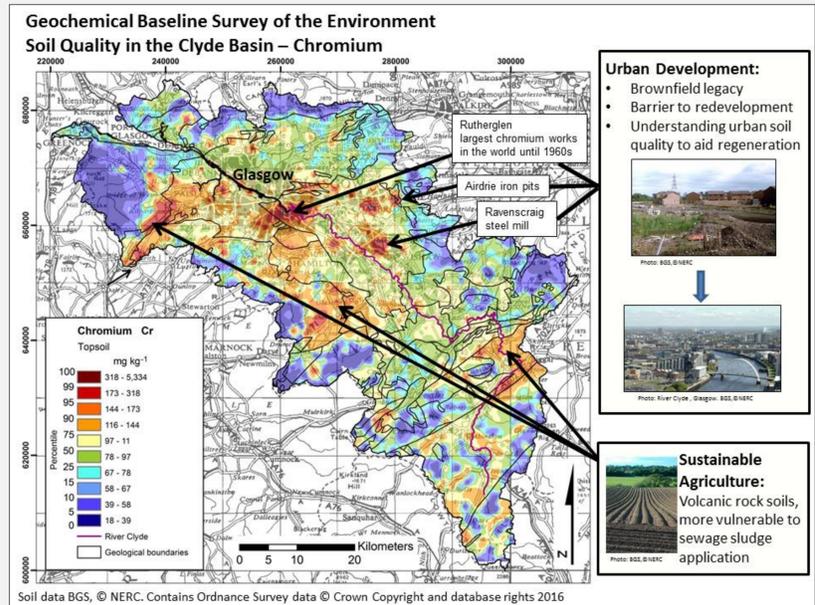


Figure 1 – Understanding soil properties for environmental protection

BGS is the only organisation to examine systematically UK urban soil chemistry. This information feeds directly into environmental protection legislation for redevelopment of brownfield land¹. Recently, we've completed assessments in Glasgow and the Clyde Basin². Did you know that poor soil quality coincides with deprived areas in Glasgow³?

We work to improve land quality assessment in Scotland/UK and internationally to aid urban and environmental management.

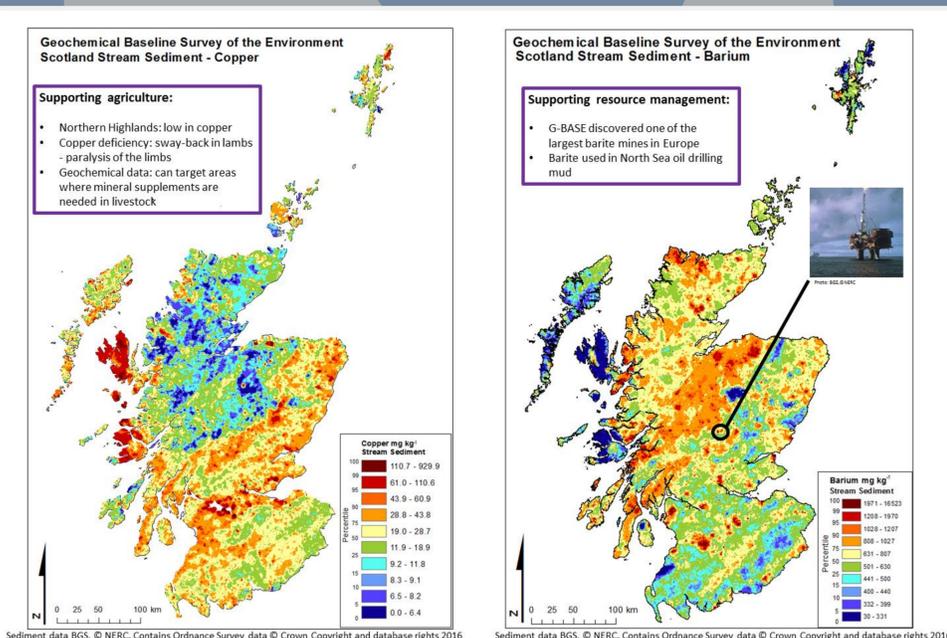


Figure 2 – Environmental chemistry for resource management

References:

1. DEFRA. 2014. Document SP1010. DEFRA: London
2. Fordyce et al. 2012. Report, OR/08/002. BGS: Edinburgh
3. Morrison et al. 2014. Environ. Geochem. Health, 36(2), 319-332