

Consideration of soil in other SEA topics

SEA topic	Areas where soil may be considered within other SEA topics
Material assets	<ul style="list-style-type: none"> • Mining/ quarrying resources • Waste application to land (e.g. landfill or spreading) • Soil resource e.g. <ul style="list-style-type: none"> ○ Biomass or peat used as fuel ○ Agricultural productivity ○ Topsoil used for landscaping, horticulture etc.
Climatic factors	<ul style="list-style-type: none"> • Soil as a carbon pool/ sink • Soil (inc. peat) as a source of greenhouse gases e.g. methane, nitrous oxide, carbon dioxide • Changes in soil (e.g. soil stability, subsidence, erosion) related to effects of climate change
Population and human health	<ul style="list-style-type: none"> • Effects of pollution and soil contamination on human health • Effects of waste application to land (e.g. landfill or sludge spreading) on human health
Water	<ul style="list-style-type: none"> • Effects of soil contamination leading to water pollution • Effects of natural toxic substances or nutrients in soils leading to water pollution • Changes in soil properties/ sealing leading to flooding and/ or hydromorphological changes
Biodiversity	<ul style="list-style-type: none"> • Biodiversity within the soil habitat • Soil as a habitat • Soil as support to specific habitats (e.g. blanket bog, machair, limestone pavements) • Effect of contaminated run-off (e.g. nutritionally rich) on aquatic habitat/ species • Physical changes of habitat affecting soil • Invasive alien species in soils
Air	<ul style="list-style-type: none"> • Atmospheric processes leading to deposition of pollutants on soil • Effects of gaseous emissions from soils (e.g. ammonia, greenhouse gases)
Landscape	<ul style="list-style-type: none"> • Visual impact of agricultural practices/ land use • Influence of geology/ soil type over landscape features • Influence of geodiversity over landscape features (geodiversity features are non-renewable assets including rock exposures, fossils, sediments, soils, landforms and land forming processes)
Cultural heritage	<ul style="list-style-type: none"> • Conservation of cultural heritage sites • Soil sealing/ removal, erosion, dewatering, quality, organic matter, etc. resulting in loss of archaeological or cultural heritage