

Welsh Government

M4 Corridor around Newport

Environmental Statement
Supplement
Volume 3: Appendix S10.8

Table R10.19: Summary of Likely
Environmental Effects on Ecology
and Nature Conservation (Revised)

M4CaN-DJV-EBD-ZG_GEN-AX-EN-0046

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Table R10.19: Summary of Likely Environmental Effects on Ecology and Nature Conservation (Revised)

Activity/ Receptor	Value of receptor	Description of impact	Short / medium / long term	Magnitude of impact (without mitigation)	Significance of effect (without mitigation)	Magnitude of impact (with mitigation)	Significance of effect (with mitigation)	Significant / Not significant In EIA terms
Land take								
European Statutory Designated Sites	Very High	Habitat loss	Short/ Medium/ Long term	Negligible Adverse	Slight	Negligible Adverse	Slight	Not significant
National Statutory Designated Sites	High	Habitat loss including grazing marsh	Short term	Moderate Adverse	Moderate/ Large	Moderate Adverse	Moderate/ Large	Significant
			Medium/ Long term	Moderate Adverse	Moderate/ Large	Minor Adverse	Slight/ Moderate	Significant
Non-statutory Designated Sites	Medium	Habitat loss including grassland, ancient woodland	Short term	Major Adverse	Moderate/ Large	Major Adverse	Moderate/ Large	Significant
			Medium/ Long term	Major Adverse	Moderate/ Large	Moderate Adverse	Moderate	Significant
National Nature Reserve (Newport Wetlands)	High	None	Short/ Medium/ Long term	No Change	Neutral	No Change	Neutral	Not significant
Nature Reserves (Magor Marsh and Great Traston Meadows)	Medium	Habitat loss	Short/ Medium/ Long term	No Change (Great Traston Meadows) / Minor Adverse (Magor Marsh)	Neutral / Slight	No Change (Great Traston Meadows) / Minor Adverse (Magor Marsh)	Neutral / Slight	Not significant
Rivers (Usk and Ebbw)								
Rivers	Medium (Ebbw)/ High (Usk)	None	Short/ Medium/ Long term	No Change	Neutral	No Change	Neutral	Not significant
Sub-tidal benthic habitat	Medium (Ebbw)/ High (Usk)	None	Short/ Medium/ Long term	No Change	Neutral	No Change	Neutral	Not significant

Activity/ Receptor	Value of receptor	Description of impact	Short / medium / long term	Magnitude of impact (without mitigation)	Significance of effect (without mitigation)	Magnitude of impact (with mitigation)	Significance of effect (with mitigation)	Significant / Not significant In EIA terms
Intertidal mudflats	Medium (Ebbw)/ High (Usk)	None	Short/ Medium/ Long term	No Change	Neutral	No Change	Neutral	Not significant
Coastal saltmarsh	Medium (Ebbw)/ High (Usk)	Loss of saltmarsh	Short/ Medium term	Minor Adverse	Slight/ Moderate (River Usk) Slight (river Ebbw)	Minor Adverse	Slight/ Moderate (River Usk) Slight (River Ebbw)	Significant
			Long term	Negligible Adverse	Slight (River Usk) Neutral/Slight (River Ebbw)	Negligible Adverse	Slight (River Usk) Neutral/Slight (river Ebbw)	Not significant
Migratory fish	Very High	None	Short/ Medium/ Long term	No Change	Neutral	No Change	Neutral	Not significant
Estuarine migratory fish assemblage	High	None	Short/ Medium/ Long term	No Change	Neutral	No Change	Neutral	Not significant
Reens, ditches, reedbeds and ponds								
Eutrophic standing waters	High	Habitat loss	Short/ Medium/ Long term	Negligible Adverse	Slight	Negligible Adverse	Slight	Not significant
Ponds	Medium	Habitat loss	Short term	Minor Adverse	Slight	Minor Adverse	Slight	Not significant
			Medium term	Negligible Adverse	Neutral/Slight	Negligible Adverse	Neutral/Slight	Not significant
			Long term	Minor Beneficial	Slight	Minor Beneficial	Slight Beneficial	Not significant
Reedbeds	Medium	Habitat loss	Short term	Moderate Adverse	Moderate	Moderate Adverse	Moderate	Significant
			Medium/long term	Negligible Adverse	Neutral/Slight	Negligible Adverse	Neutral/Slight	Not significant

Activity/ Receptor	Value of receptor	Description of impact	Short / medium / long term	Magnitude of impact (without mitigation)	Significance of effect (without mitigation)	Magnitude of impact (with mitigation)	Significance of effect (with mitigation)	Significant / Not significant In EIA terms
Aquatic macrophytes	High	Loss of species diversity	Short term	Minor Adverse	Slight/ Moderate	Negligible Adverse	Slight	Not significant
			Medium term	Negligible Adverse	Slight	Negligible Adverse	Slight	Not significant
Otter	High	Habitat loss	Short/ Medium/ Long term	Minor Adverse	Slight/ Moderate	Negligible Adverse	Slight	Not significant
Water vole	Medium	Habitat loss	Short term	Moderate Adverse	Moderate	Minor Adverse	Slight	Not significant
			Medium / Long term	Minor Adverse	Slight	Negligible Adverse	Neutral/Slight	Not significant
Grass snake	Medium	Habitat loss	Short term	Moderate Adverse	Moderate	Minor Adverse	Slight	Not significant
			Medium/ Long term	Minor Adverse	Slight	Negligible Adverse	Neutral/Slight	Not significant
Great crested newt	Medium	Habitat loss	Short term	Minor Adverse	Slight	Minor Adverse	Slight	Not significant
			Medium/ Long term	Negligible Adverse	Neutral/Slight	Negligible Adverse	Neutral/Slight	Not significant
Other amphibians	Low	Habitat loss	Short term	Minor Adverse	Neutral/Slight	Minor Adverse	Neutral/Slight	Not significant
			Medium/ Long term	Negligible Adverse	Neutral/Slight	Negligible Adverse	Neutral/Slight	Not significant
Freshwater fish assemblage	Medium	Habitat loss	Short/ Medium/ Long term	Minor Adverse	Slight	Minor Adverse	Slight	Not significant
European eel	Very High	Habitat loss	Short/ Medium/ Long term	Minor Adverse	Slight/ Moderate	Negligible Adverse	Slight	Not significant
Freshwater invertebrates	High	Habitat loss	Short term	Minor Adverse	Slight/ Moderate	Minor Adverse	Slight/ Moderate	Significant
			Medium/ Long term	Negligible Adverse	Slight	Negligible Adverse	Slight	Not significant

Activity/ Receptor	Value of receptor	Description of impact	Short / medium / long term	Magnitude of impact (without mitigation)	Significance of effect (without mitigation)	Magnitude of impact (with mitigation)	Significance of effect (with mitigation)	Significant / Not significant In EIA terms
Grazing Marsh								
Coastal and floodplain grazing marsh	High	Habitat loss	Short term	Moderate Adverse	Moderate/ Large	Moderate Adverse	Moderate/ Large	Significant
			Medium/ Long term	Moderate Adverse	Moderate/ Large	Minor Adverse	Slight/ Moderate	Significant
Shrill carder bee	High	Habitat loss	Short/ Medium term	Moderate Adverse	Moderate/ Large	Moderate Adverse	Moderate/ Large	Significant
			Long term	Moderate Adverse	Moderate/ Large	Minor Adverse	Slight/ Moderate	Significant
Wet grassland plants	Medium	Habitat loss	Short term	Moderate Adverse	Moderate	Moderate Adverse	Moderate	Significant
			Medium/ Long term	Moderate Adverse	Moderate	Minor Adverse	Slight	Not significant
Farmland								
Lowland mixed deciduous woodland (Semi-natural)	Medium	Habitat loss	Short/ Medium term	Major Adverse	Moderate/ Large	Major Adverse	Moderate/ Large	Significant
			Long term	Major Adverse	Moderate/ Large	Moderate Adverse	Moderate	Significant
Lowland mixed deciduous woodland (Plantation)	Low	Habitat loss	Short/ Medium term	Moderate Adverse	Slight	Moderate Adverse	Slight	Not significant
			Long term	Negligible Adverse (potentially Moderate Beneficial)	Neutral/Slight	Negligible Adverse (potentially Moderate Beneficial)	Neutral/Slight Adverse (potentially Slight Beneficial)	Not significant
Hedgerows	Medium	Habitat loss	Short/ Medium/ Long term	Moderate	Moderate	Moderate Adverse	Moderate	Significant
Lowland meadow (Species-rich)	Medium	Habitat loss	Short term	Moderate Adverse	Moderate	Moderate Adverse	Moderate	Significant
			Medium/ Long term	Minor Adverse	Slight	Minor Adverse	Slight	Not significant

Activity/ Receptor	Value of receptor	Description of impact	Short / medium / long term	Magnitude of impact (without mitigation)	Significance of effect (without mitigation)	Magnitude of impact (with mitigation)	Significance of effect (with mitigation)	Significant / Not significant In EIA terms
Lowland meadow (other non-SSSI)	Low	Habitat loss	Short term	Moderate Adverse	Slight	Moderate Adverse	Slight	Not significant
			Medium/ Long term	Minor	Neutral/Slight	Minor Adverse	Neutral/Slight	Not significant
Dormouse	Medium	Habitat loss	Short/ Medium term	Major Adverse	Moderate/ Large	Minor Adverse	Slight	Not significant
			Long term	Moderate Adverse	Moderate	No Change (Potentially Beneficial)	Neutral (Potentially Beneficial)	Not significant
Badger	Low	Habitat loss	Short/ Medium term	Major Adverse	Slight/ Moderate	Minor Adverse	Neutral/Slight	Not significant
			Long term	Moderate Adverse	Slight	Negligible Adverse	Neutral/Slight	Not significant
Hedgehog	Low	Habitat loss	Short/ Medium term	Moderate Adverse	Slight	Minor Adverse	Neutral/Slight	Not significant
			Long term	Minor Adverse	Neutral/Slight	No Change (Potentially Beneficial)	Neutral (Potentially Beneficial)	Not significant
Industrial land								
Open mosaic habitats on previously developed land	Medium	Habitat loss	Short/ Medium term	Major Adverse	Moderate/ Large	Major Adverse	Moderate/ Large	Significant
			Long term	Major Adverse	Moderate/ Large	Moderate Adverse	Moderate	Significant
Reptiles (Common lizard, slow worm)	Low	Habitat loss	Short/ Medium term	Major Adverse	Slight/ Moderate	Moderate Adverse	Slight	Not significant
			Long term	Major Adverse	Slight/ Moderate	Minor Adverse	Neutral/Slight	Not significant
Terrestrial invertebrates	Medium	Habitat loss	Short/ Medium term	Major Adverse	Moderate/ Large	Major Adverse	Moderate/ Large	Significant
			Long term	Major Adverse	Moderate/ Large	Moderate Adverse	Moderate	Significant

Activity/ Receptor	Value of receptor	Description of impact	Short / medium / long term	Magnitude of impact (without mitigation)	Significance of effect (without mitigation)	Magnitude of impact (with mitigation)	Significance of effect (with mitigation)	Significant / Not significant In EIA terms
Bats	Medium	Habitat loss	Short/ Medium term	Major Adverse	Moderate/ Large	Moderate Adverse	Moderate	Significant
			Long term	Moderate Adverse	Moderate	Minor Adverse	Slight	Not significant
Breeding Birds								
Ramsar site named species (Lesser black- backed gull, Herring gull)	High	None	Short/ Medium/ Long term	No change	Neutral	No change	Neutral	Not significant
Cetti's warbler	High	Habitat loss	Short term	Moderate Adverse	Moderate/ Large	Moderate Adverse	Moderate/ Large	Significant
			Medium term	Moderate Adverse	Moderate/ Large	Minor Adverse	Slight/ Moderate	Significant
			Long term	Minor Adverse	Slight/ Moderate	Minor Adverse	Slight/ Moderate	Significant
Barn owl	Medium	Habitat loss	Short term	Moderate Adverse	Moderate	Moderate Adverse	Moderate	Significant
			Medium term	Moderate Adverse	Moderate	Negligible Adverse	Neutral/Slight	Not significant
			Long term	Minor Adverse	Slight	Negligible Adverse	Neutral/Slight	Not significant
Other species	Low	Habitat loss	Short term	Moderate Adverse	Slight	Moderate Adverse	Slight	Not significant
			Medium term	Moderate Adverse	Slight	Minor Adverse	Neutral/Slight	Not significant
			Long term	Minor Adverse	Neutral/Slight	Minor Adverse	Neutral/Slight	Not significant
Wintering Birds								
Redshank, Gadwall, Pintail	High	Habitat loss	Short/ Medium/ Long term	Negligible Adverse	Slight	Negligible Adverse	Slight	Not significant

Activity/ Receptor	Value of receptor	Description of impact	Short / medium / long term	Magnitude of impact (without mitigation)	Significance of effect (without mitigation)	Magnitude of impact (with mitigation)	Significance of effect (with mitigation)	Significant / Not significant In EIA terms
Teal, Pochard, Shoveler	Medium	Habitat loss	Short/ Medium/ Long term	Negligible Adverse	Neutral/Slight	Negligible Adverse	Neutral/Slight	Not significant
Shelduck, Wigeon, Tufted duck, Curlew, lapwing, mallard	Low	Habitat loss	Short/ Medium/ Long term	Negligible Adverse	Neutral/Slight	Negligible Adverse	Neutral/Slight	Not significant
Other wintering bird species	Low	Habitat loss	Short/ Medium/ Long term	Minor Adverse	Neutral/Slight	Minor Adverse	Neutral/Slight	Not significant
Construction phase								
European Statutory Designated Sites	Very High	Disturbance, habitat loss	Short/ Medium/ Long term	Negligible Adverse	Slight	Negligible Adverse	Slight	Not significant
National Statutory Designated Sites	High	Disturbance, habitat loss	Short/ Medium term	Minor Adverse	Slight/ Moderate	Minor Adverse	Slight/ Moderate	Significant
			Long term	Minor Adverse	Slight /Moderate	Negligible Adverse	Slight	Not significant
Non-statutory Designated Sites	Medium	Habitat loss	Short/ Medium/ Long term	Minor Adverse	Slight	Minor Adverse	Slight	Not significant
National Nature Reserve (Newport Wetlands)	High	None	Short/ Medium/ Long term	No Change	Neutral	No Change	Neutral	Not significant
Nature Reserves (Magor Marsh and Great Traston Meadows)	Medium	Disturbance	Short/ Medium term	Minor Adverse	Slight	Minor Adverse	Slight	Not significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant

Activity/ Receptor	Value of receptor	Description of impact	Short / medium / long term	Magnitude of impact (without mitigation)	Significance of effect (without mitigation)	Magnitude of impact (with mitigation)	Significance of effect (with mitigation)	Significant / Not significant In EIA terms
Rivers (Usk and Ebbw)								
Rivers	Medium (Ebbw)/ High (Usk)	Pollution	Short/ Medium term	Minor Adverse	Slight/ Moderate (River Usk) Slight (River Ebbw)	Minor Adverse	Slight/ Moderate (River Usk) Slight (River Ebbw)	Significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
Sub-tidal benthic habitat	Medium (Ebbw)/ High (Usk)	Pollution	Short/ Medium term	Negligible Adverse	Neutral/Slight (River Ebbw) Slight (River Usk)	Negligible Adverse	Neutral/Slight (River Ebbw) Slight (River Usk)	Not significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
Intertidal mudflats	Medium (Ebbw)/ High (Usk)	Habitat loss, pollution	Short/ Medium term	Negligible Adverse	Neutral/Slight (River Ebbw) Slight (River Usk)	Negligible Adverse	Neutral/Slight (River Ebbw) Slight (River Usk)	Not significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
Coastal saltmarsh	Medium (Ebbw)/ High (Usk)	Habitat loss	Short/ Medium term	Minor Adverse	Slight (River Ebbw) Slight/ Moderate (River Usk)	Minor Adverse	Slight (River Ebbw) Slight/ Moderate (River Usk)	Significant
			Long term	Negligible Adverse	Neutral/Slight (River Ebbw) Slight (River Usk)	Negligible Adverse	Neutral/Slight (River Ebbw) Slight (River Usk)	Not significant
Migratory fish	Very High	Pollution	Short/ Medium term	Moderate Adverse	Large/Very Large	Negligible Adverse	Slight	Not significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant

Activity/ Receptor	Value of receptor	Description of impact	Short / medium / long term	Magnitude of impact (without mitigation)	Significance of effect (without mitigation)	Magnitude of impact (with mitigation)	Significance of effect (with mitigation)	Significant / Not significant In EIA terms
Estuarine migratory fish assemblage	High	Disturbance	Short/ Medium term	Moderate Adverse	Moderate/ Large	Negligible Adverse	Slight	Not significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
Reens, ditches, reedbeds and ponds								
Eutrophic standing waters	High	Pollution	Short/ Medium term	Minor Adverse	Slight/ Moderate	Minor Adverse	Slight/ Moderate	Significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
Ponds	Medium	Pollution	Short/ Medium term	Minor Adverse	Slight	Minor Adverse	Slight	Not significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
Reedbeds	Medium	Habitat loss	Short/ Medium term	Moderate Adverse	Moderate	Moderate Adverse	Moderate	Significant
			Long term	Negligible Adverse	Neutral/Slight	Negligible Adverse	Neutral/Slight	Not significant
Aquatic macrophytes	High	Loss of species diversity	Short/ Medium term	Moderate Adverse	Moderate/ Large	Minor Adverse	Slight/ Moderate	Significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
Otter	High	Habitat loss, fatality, pollution, disturbance	Short/ Medium term	Moderate Adverse	Moderate/ Large	Minor Adverse	Slight/ Moderate	Significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
Water vole	Medium	Habitat loss, pollution, disturbance	Short/ Medium term	Major Adverse	Moderate/ Large Adverse	Minor Adverse	Slight	Not significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
Grass snake	Medium	Habitat loss, disturbance	Short/ Medium term	Major Adverse	Moderate/ Large	Minor Adverse	Slight	Not significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
Great crested newt	Medium	Habitat loss, disturbance	Short/ Medium term	Major Adverse	Moderate/ Large	Minor Adverse	Slight	Not significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant

Activity/ Receptor	Value of receptor	Description of impact	Short / medium / long term	Magnitude of impact (without mitigation)	Significance of effect (without mitigation)	Magnitude of impact (with mitigation)	Significance of effect (with mitigation)	Significant / Not significant In EIA terms
Other amphibians	Low	Habitat loss, disturbance	Short/ Medium term	Major Adverse	Slight/ Moderate	Moderate Adverse	Slight	Not significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
Freshwater fish assemblage	Medium	Pollution	Short/ Medium term	Minor Adverse	Slight	Negligible Adverse	Neutral/Slight	Not significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
European eel	Very High	Pollution	Short/ Medium term	Minor Adverse	Moderate/ Large	Negligible Adverse	Slight	Not significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
Freshwater invertebrates	High	Loss of species diversity	Short/ Medium term	Moderate Adverse	Moderate/ Large	Minor Adverse	Slight/ Moderate	Significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
Grazing Marsh								
Coastal and floodplain grazing marsh	High	Habitat loss	Short/ Medium term	Negligible Adverse	Slight	Negligible Adverse	Slight	Not significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
Shrill carder bee	High	Habitat loss	Short/ Medium term	Moderate Adverse	Moderate/ Large	Moderate Adverse	Moderate/ Large	Significant
			Long term	Moderate Adverse	Moderate/ Large	Minor Adverse	Slight/ Moderate	Significant
Wet grassland plants	Medium	Loss of species diversity	Short/ Medium term	Negligible Adverse	Neutral/Slight	Negligible Adverse	Neutral/Slight	Not significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
Farmland								
Lowland mixed deciduous woodland (Semi- natural)	Medium	Habitat loss	Short/ Medium term	Minor Adverse	Slight	Minor Adverse	Slight	Not significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant

Activity/ Receptor	Value of receptor	Description of impact	Short / medium / long term	Magnitude of impact (without mitigation)	Significance of effect (without mitigation)	Magnitude of impact (with mitigation)	Significance of effect (with mitigation)	Significant / Not significant In EIA terms
Lowland mixed deciduous woodland (Plantation)	Low	Habitat loss	Short/ Medium term	Minor Adverse	Neutral/Slight	Minor Adverse	Neutral/Slight	Not significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
Hedgerows	Medium	Habitat loss	Short/ Medium term	Minor Adverse	Slight	Minor Adverse	Slight	Not significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
Lowland meadow (Species-rich)	Medium	Habitat loss	Short/ Medium term	Negligible Adverse	Neutral/Slight	Negligible Adverse	Neutral/Slight	Not significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
Lowland Meadow (other non-SSSI)	Low	Habitat loss	Short/ Medium term	Negligible Adverse	Neutral/Slight	Negligible Adverse	Neutral/Slight	Not significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
Dormouse	Medium	Habitat loss	Short/ Medium term	Major Adverse	Moderate/ Large Adverse	Minor Adverse	Slight Adverse	Not significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
Badger	Low	Habitat loss	Short/ Medium term	Moderate Adverse	Slight	Minor Adverse	Neutral/Slight	Not significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
Hedgehog	Low	Habitat loss	Short/ Medium term	Major Adverse	Slight/ Moderate	Minor Adverse	Neutral/Slight	Not significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
Industrial land								
Open mosaic habitats on previously developed land	Medium	Habitat loss	Short/ Medium term	Minor Adverse	Slight	Minor Adverse	Slight	Not significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
Reptiles (Common lizard, slow worm)	Low	Habitat loss	Short/ Medium term	Moderate Adverse	Slight	Minor Adverse	Neutral/Slight	Not significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
Terrestrial invertebrates	Medium	Habitat loss	Short/ Medium term	Minor Adverse	Slight	Minor Adverse	Slight	Not significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant

Activity/ Receptor	Value of receptor	Description of impact	Short / medium / long term	Magnitude of impact (without mitigation)	Significance of effect (without mitigation)	Magnitude of impact (with mitigation)	Significance of effect (with mitigation)	Significant / Not significant In EIA terms
Bats	Medium	Habitat loss	Short/ Medium term	Moderate Adverse	Moderate	Moderate Adverse	Moderate	Significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
Breeding Birds								
Ramsar site named species (Lesser black- backed gull, Herring gull)	High	None	Short/ Medium term	No change	Neutral	No change	Neutral	Not significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
Cetti's warbler	High	Habitat loss, disturbance	Short/ Medium term	Moderate Adverse	Moderate /Large	Moderate Adverse	Moderate/ Large	Significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
Barn owl	Medium	Habitat loss, disturbance	Short/ Medium term	Moderate Adverse	Moderate	Minor Adverse	Slight	Not significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
Other species	Low	Habitat loss, disturbance	Short/ Medium term	Moderate Adverse	Slight	Moderate Adverse	Slight	Not significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
Wintering Birds								
Redshank, Gadwall, Pintail	High	Habitat loss, disturbance	Short/ Medium term	Minor Adverse	Slight/ Moderate	Minor Adverse	Slight/ Moderate	Significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
Teal, Pochard, Shoveler	Medium	Habitat loss, disturbance	Short/ Medium term	Minor Adverse	Slight	Minor Adverse	Slight	Not significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
Shelduck, Wigeon, Tufted duck, Curlew, lapwing, mallard	Low	Habitat loss, disturbance	Short/ Medium term	Minor Adverse	Neutral/Slight	Minor Adverse	Neutral/Slight	Not significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant

Activity/ Receptor	Value of receptor	Description of impact	Short / medium / long term	Magnitude of impact (without mitigation)	Significance of effect (without mitigation)	Magnitude of impact (with mitigation)	Significance of effect (with mitigation)	Significant / Not significant In EIA terms
Other wintering bird species	Low	Habitat loss, disturbance	Short/ Medium term	Minor Adverse	Neutral/Slight	Minor Adverse	Neutral/Slight	Not significant
			Long term	No Change	Neutral	No Change	Neutral	Not significant
Operational Phase								
European Statutory Designated Sites	Very High	None	Long term	No change	Neutral	No change	Neutral	Not significant
National Statutory Designated Sites	High	Land management	Long term	Negligible Adverse	Slight	Negligible Adverse	Slight	Not significant
Non-statutory Designated Sites	Medium	Disturbance	Long term	Moderate Adverse	Moderate	Minor	Slight	Not significant
National Nature Reserve (Newport Wetlands)	High	None	Long term	No Change	Neutral	No Change	Neutral	Not Significant
Nature Reserves (Magor Marsh and Great Traston Meadows)	Medium	Disturbance	Long term	Minor Adverse	Slight	Minor Adverse	Slight	Not significant
Rivers (Usk and Ebbw)								
Rivers	Medium (Ebbw)/ High (Usk)	Pollution, disturbance	Long term	Negligible Adverse (Usk), Minor Adverse (Ebbw)	Slight Usk), Slight (Ebbw)	Negligible Adverse (Usk), Minor Adverse (River Ebbw)	Slight (Usk), Slight (Ebbw)	Not significant
Sub-tidal benthic habitat	Medium (Ebbw)/ High (Usk)	Pollution	Long term	Negligible Adverse	Neutral (Ebbw)/ Slight (Usk)	Negligible Adverse	Neutral (Ebbw)/ Slight (Usk)	Not significant

Activity/ Receptor	Value of receptor	Description of impact	Short / medium / long term	Magnitude of impact (without mitigation)	Significance of effect (without mitigation)	Magnitude of impact (with mitigation)	Significance of effect (with mitigation)	Significant / Not significant In EIA terms
Intertidal mudflats	Medium (Ebbw)/ High (Usk)	Pollution	Long term	Negligible Adverse	Neutral/Slight (Ebbw)/ Slight (Usk)	Negligible Adverse	Neutral/Slight (Ebbw) Slight (Usk)	Not significant
Coastal saltmarsh	Medium (Ebbw)/ High (Usk)	Pollution	Long term	Negligible Adverse	Neutral/Slight (Ebbw) Slight (Usk)	Negligible Adverse	Neutral/Slight (Ebbw) Slight (Usk)	Not significant
Migratory fish	Very High	Pollution	Long term	Minor Adverse	Moderate/ Large	Negligible Adverse	Slight	Not significant
Estuarine migratory fish assemblage	High	Pollution	Long term	Minor Adverse	Slight/ Moderate	Negligible Adverse	Slight	Not significant
Reens, ditches, reedbeds and ponds								
Eutrophic standing waters	High	Severance, pollution	Long term	Minor Adverse	Slight/ Moderate	Negligible Adverse	Slight	Not significant
Ponds	Medium	Pollution	Long term	Negligible Adverse	Neutral/Slight	Negligible Adverse	Neutral/Slight	Not significant
Reedbeds	Medium	Pollution	Long term	Minor Adverse	Slight	Minor Adverse	Slight	Not significant
Aquatic macrophytes	High	Pollution	Long term	Minor Adverse	Slight/ Moderate	Negligible Adverse	Slight	Not significant
Otter	High	Severance, pollution	Long term	Major Adverse	Large/Very Large	Minor Adverse	Slight/ Moderate	Significant
Water vole	Medium	Severance, pollution	Long term	Moderate Adverse	Moderate	Minor Adverse	Slight	Not significant
Grass snake	Medium	Severance, pollution	Long term	Moderate Adverse	Moderate	Minor Adverse	Slight	Not significant
Great crested newt	Medium	Severance, pollution	Long term	Minor Adverse	Slight	Minor Adverse	Slight	Not significant
Other amphibians	Low	Severance, pollution	Long term	Minor Adverse	Neutral/Slight	Minor Adverse	Neutral/Slight	Not significant
Freshwater fish assemblage	Medium	Pollution	Long term	Negligible Adverse	Neutral/Slight	Negligible Adverse	Neutral/Slight	Not significant
European eel	Very High	Pollution	Long term	Negligible Adverse	Slight	Negligible Adverse	Slight	Not significant

Activity/ Receptor	Value of receptor	Description of impact	Short / medium / long term	Magnitude of impact (without mitigation)	Significance of effect (without mitigation)	Magnitude of impact (with mitigation)	Significance of effect (with mitigation)	Significant / Not significant In EIA terms
Freshwater invertebrates	High	Pollution	Long term	Minor Adverse	Slight/ Moderate	Negligible Adverse	Slight	Not significant
Grazing Marsh								
Coastal and floodplain grazing marsh	High	Severance	/ Long term	Minor Adverse	Slight/ Moderate	Negligible Adverse/ Potentially Minor Beneficial	Slight Adverse / Potentially Slight Beneficial	Not significant
Shrill carder bee	High	Severance, disturbance	Long term	Minor Adverse	Slight/ Moderate	Negligible	Slight	Not significant
Wet grassland plants	Medium	Severance	Long term	Minor Adverse	Slight	Negligible Adverse/ Potentially Minor Beneficial	Neutral/Slight Adverse / Potentially Slight Beneficial	Not significant
Farmland								
Lowland mixed deciduous woodland (Semi- natural)	Medium	Severance, disturbance	Long term	Minor Adverse	Slight	Minor Adverse	Slight	Not significant
Lowland mixed deciduous woodland (Plantation)	Low	Severance, disturbance	Long term	Minor Adverse (potentially Moderate Beneficial)	Neutral or Slight	Minor Adverse (Potentially Moderate Beneficial)	Neutral/ Slight Adverse (Potentially Slight Beneficial)	Not significant
Hedgerows	Medium	Severance	Long term	Negligible Adverse	Neutral/Slight	Negligible Adverse	Neutral/Slight	Not significant
Lowland meadow (Species-rich)	Medium	Severance	Long term	Negligible Adverse	Neutral/Slight	No change	Neutral	Not significant
Lowland Meadow (Other non-SSSI)	Low	Severance	Long term	Negligible Adverse	Neutral/Slight	No change	Neutral	Not significant
Dormouse	Medium	Fatalities	Long term	Minor Adverse	Slight	Negligible Adverse	Neutral/Slight	Not significant

Activity/ Receptor	Value of receptor	Description of impact	Short / medium / long term	Magnitude of impact (without mitigation)	Significance of effect (without mitigation)	Magnitude of impact (with mitigation)	Significance of effect (with mitigation)	Significant / Not significant In EIA terms
Badger	Low	Fatalities	Long term	Moderate Adverse	Slight	Minor Adverse	Neutral/Slight	Not significant
Hedgehog	Low	Disturbance	Long term	Moderate Adverse	Slight	Minor Adverse	Neutral/Slight Adverse	Not significant
Industrial land								
Open mosaic habitats on previously developed land	Medium	Severance/di sturbance	Long term	Minor Adverse	Slight	Minor Adverse	Slight	Not significant
Reptiles (Common lizard, slow worm)	Low	Severance	Long term	Minor Adverse	Neutral/Slight	Minor Adverse	Neutral/Slight	Not significant
Terrestrial invertebrates	Medium	Severance	Long term	Minor Adverse	Slight	Minor Adverse	Slight	Not significant
Bats	Medium	Severance	Long term	Moderate Adverse	Moderate	Moderate Adverse	Moderate	Significant
Breeding Birds								
Ramsar site named species (Lesser black- backed gull, Herring gull)	High	Severance, disturbance	Long term	No change	Neutral	No change	Neutral	Not significant
Cetti's warbler	High	Severance, disturbance	Long term	Moderate Adverse	Moderate /large	Moderate Adverse	Moderate/ large	Significant
Barn owl	Medium	Severance, disturbance, vehicle strike	Long term	Moderate Adverse	Moderate	Minor adverse	Slight	Not significant
Other species	Low	Severance, disturbance	Long term	Moderate Adverse	Slight	Moderate Adverse	Slight	Not significant
Wintering Birds								
Redshank, Gadwall, Pintail	High	Severance, disturbance	Long term	Negligible Adverse	Slight	Negligible Adverse	Slight	Not significant
Teal, Pochard, Shoveler	Medium	Severance, disturbance	Long term	Negligible Adverse	Neutral/Slight	Negligible Adverse	Neutral/Slight	Not significant

Activity/ Receptor	Value of receptor	Description of impact	Short / medium / long term	Magnitude of impact (without mitigation)	Significance of effect (without mitigation)	Magnitude of impact (with mitigation)	Significance of effect (with mitigation)	Significant / Not significant In EIA terms
Shelduck, Wigeon, Tufted duck, Curlew, lapwing, mallard	Low	Severance, disturbance	Long term	Negligible Adverse	Neutral/Slight	Negligible Adverse	Neutral/Slight	Not significant
Other wintering bird species	Low	Severance, disturbance	Long term	Minor Adverse	Neutral/Slight	Minor Adverse	Neutral/Slight	Not significant