# 1. Locations with Biodiversity Impacts

## 1.1 Significant Impact Areas

Total Area of Impactful Land Uses (ha): 9644.18

Impactful Economic Activities:

Airports, Construction sites, Industrial/commercial units, Port areas, Sport and leisure

Non-impactful Economic Activities:

Agro-forestry, Broad-leaved forest, Coniferous forest, Continuous urban fabric, Discontinuous urban fabric, Estuaries, Green urban areas, Inland wetlands, Intertidal flats, Mixed forest, Natural grasslands, Non-irrigated arable land, Pastures, Roads and rail, Salt marshes, Transitional woodland-shrub, Water bodies, Water courses

## 1.2 Proximity to Sensitive Areas

### Areas of High Ecosystem Integrity

| Polygon | Ecosystem | Distance\_km | FFI\_1998 | FFI\_2018 |
| --- | --- | --- | --- | --- |
| 2 | Green urban areas | 17.46 | 0.078116484285226 | 0.027500704749987115 |
| 12 | Green urban areas | 14.09 | 0.02510617641677182 | 0.011778737810713702 |
| 13 | Water bodies | 15.37 | 0.027500704749987115 | 0.027500704749987226 |
| 16 | Green urban areas | 16.45 | 0.05602158383854683 | 0.02510617641677182 |
| 28 | Broad‑leaved forest | 8.16 | 0.044478484267290064 | 0.018621880878296526 |
| 32 | Broad‑leaved forest | 8.74 | 0.018039561794315317 | 0.023567298058771557 |
| 40 | Agro‑forestry | 11.12 | 0.0097819200961895 | 0.029086087904313107 |
| 41 | Broad‑leaved forest | 12.78 | 0.048201619900758996 | 0.015600502400254679 |
| 50 | Broad‑leaved forest | 14.01 | 0.0 | 0.010125214613993183 |

### Areas of Rapid Decline in Ecosystem Integrity

| Polygon | Ecosystem | Distance\_km | FFI\_1998 | FFI\_2018 | FFI\_Drop |
| --- | --- | --- | --- | --- | --- |
| 26 | Green urban areas | 9.6 | 0.62425461708149 | 0.09188632372746008 | 0.5323682933540299 |

### Areas of High Physical Water Risks

| Water Risk Detail | Distance\_km |
| --- | --- |
| Marine Pollution Risk - Extremely High (>5) | 5.0 |

### Areas Important for Ecosystem Service Delivery

| Ecosystems Present | Distance\_km |
| --- | --- |
| T7.3, Annual croplands, Derived semi-natural pastures and old fields, T7.4 | 7.07 |
| T7.3, Derived semi-natural pastures and old fields | 5.0 |
| T7.3, Annual croplands, Derived semi-natural pastures and old fields | 7.07 |
| T7.3, Annual croplands, Derived semi-natural pastures and old fields | 0.0 |
| T7.3, Coastal saltmarshes and reedbeds, Derived semi-natural pastures and old fields | 5.0 |
| T7.3, Derived semi-natural pastures and old fields | 7.07 |
| T7.3, Annual croplands, Sown pastures and fields, Derived semi-natural pastures and old fields | 7.07 |
| T7.3, Annual croplands, Derived semi-natural pastures and old fields, T7.4 | 5.0 |
| T7.3, Annual croplands, Derived semi-natural pastures and old fields | 5.0 |

# 2. Areas of Biodiversity Importance

## Legally Protected Areas

| Region Name | Protected Area Type | Distance\_km |
| --- | --- | --- |
| Peckforton Woods | Site of Special Scientific Interest | 7.07 |
| Murdishaw Wood and Valley | Local Nature Reserve | 5.0 |
| Helsby Hill | Nature Reserve | 5.0 |
| Midland Meres & Mosses | Ramsar Site, Wetland of International Importance | 5.0 |
| Flaxmere Moss | Site of Special Scientific Interest | 5.0 |
| Hatch Mere | Site of Special Scientific Interest | 5.0 |
| Warburton's Wood and Well Wood | Site of Special Scientific Interest | 5.0 |
| Beechmill Wood and Pasture | Site of Special Scientific Interest | 5.0 |
| Flood Brook Clough | Site of Special Scientific Interest | 5.0 |
| Hatton's Hey Wood, Whittle's Corner and Bank Rough | Site of Special Scientific Interest | 5.0 |
| Dunsdale Hollow | Site of Special Scientific Interest | 5.0 |
| Frodsham Railway and Road Cuttings | Site of Special Scientific Interest | 5.0 |
| Bidston Moss | Local Nature Reserve | 7.07 |
| Meols Meadows | Site of Special Scientific Interest | 7.07 |
| Mersey Narrows and North Wirral Foreshore | Emerald Network | 7.07 |
| Mersey Narrows and North Wirral Foreshore | Marine Protected Area (OSPAR) | 7.07 |
| The Mersey Narrows and North Wirral Foreshore | Ramsar Site, Wetland of International Importance | 7.07 |
| Rivacre Valley | Local Nature Reserve | 0.0 |
| Stanney Wood | Local Nature Reserve | 0.0 |
| Whitby Park | Local Nature Reserve | 0.0 |
| Mersey Estuary | Nature Reserve | 0.0 |
| Dee Estuary | Nature Reserve | 5.0 |
| Dee Estuary / Aber Dyfrdwy | Marine Protected Area (OSPAR) | 5.0 |
| The Dee Estuary | Marine Protected Area (OSPAR) | 5.0 |
| Dee Estuary | Site of Special Scientific Interest | 5.0 |
| Thatto Heath Meadows | Local Nature Reserve | 7.07 |
| Colliers Moss Common | Local Nature Reserve | 7.07 |
| Coed Talon Marsh | Site of Special Scientific Interest | 7.07 |
| Maes Y Grug | Site of Special Scientific Interest | 7.07 |
| Buckley Claypits And Commons | Site of Special Scientific Interest | 7.07 |
| Chwarel Cambrian / Cambrian Quarry, Gwernymynydd | Site of Special Scientific Interest | 7.07 |
| Old Pulford Brook Meadows | Site of Special Scientific Interest | 5.0 |
| Childwall Woods & Fields | Local Nature Reserve | 5.0 |
| Croxteth | Local Nature Reserve | 5.0 |

## Sites Significantly Contributing to Global Biodiversity



## Rare or Very Localized Ecosystems



## Highly Threatened or Connectivity-Important Ecosystems

| Ecosystems Present | Distance\_km |
| --- | --- |
| Permanent upland streams, Seasonal upland streams | 7.07 |
| Permanent lowland rivers, Permanent upland streams, Seasonal upland streams | 5.0 |
| Permanent upland streams | 7.07 |
| Permanent upland streams | 0.0 |
| Permanent upland streams | 5.0 |
| Permanent upland streams, Seasonal upland streams | 7.07 |
| Permanent upland streams | 7.07 |
| Permanent upland streams, Seasonal upland streams | 5.0 |

## Ecosystems Associated with Key Ecological or Evolutionary Processes

| Ecosystems Present | Distance\_km |
| --- | --- |
| Epipelagic ocean waters | 0.4 |

## Important Ecological Corridors

| Polygon\_A | Ecosystem\_A | Polygon\_B | Ecosystem\_B | Distance\_km |
| --- | --- | --- | --- | --- |
| 7 | Green urban areas | 8 | Green urban areas | 0.58 |
| 9 | Transitional woodland‑shrub | 10 | Transitional woodland‑shrub | 0.5 |

## Important Species and their Red List Status

| Critically Endangered | Endangered | Distance from Center (km) |
| --- | --- | --- |
|  | Oryctolagus cuniculus | 7.07 |
| Anguilla anguilla | Aeshna juncea, Oryctolagus cuniculus, Sympetrum danae | 7.07 |
|  | Oryctolagus cuniculus | 5.0 |
|  | Oryctolagus cuniculus | 5.0 |
|  | Araucaria araucana, Oryctolagus cuniculus | 7.07 |
|  |  | 7.07 |
|  | Oryctolagus cuniculus | 5.0 |
|  | Oryctolagus cuniculus, Somateria mollissima | 0.0 |
|  | Araucaria araucana, Oryctolagus cuniculus | 5.0 |

## Important for Ecological Connectivity

| Ecosystems Present | Distance\_km |
| --- | --- |
| Permanent upland streams, Seasonal upland streams | 7.07 |
| Permanent lowland rivers, Permanent upland streams, Seasonal upland streams | 5.0 |
| Permanent upland streams | 7.07 |
| Permanent upland streams | 0.0 |
| Permanent upland streams | 5.0 |
| Permanent upland streams, Seasonal upland streams | 7.07 |
| Permanent upland streams | 7.07 |
| Permanent upland streams, Seasonal upland streams | 5.0 |

## Ecosystem Service Benefits to Indigenous Peoples, Local Communities, and Stakeholders

| Ecosystems Present | Distance\_km |
| --- | --- |
| T7.3, Annual croplands, Derived semi-natural pastures and old fields, T7.4 | 7.07 |
| T7.3, Derived semi-natural pastures and old fields | 5.0 |
| T7.3, Annual croplands, Derived semi-natural pastures and old fields | 7.07 |
| T7.3, Annual croplands, Derived semi-natural pastures and old fields | 0.0 |
| T7.3, Coastal saltmarshes and reedbeds, Derived semi-natural pastures and old fields | 5.0 |
| T7.3, Derived semi-natural pastures and old fields | 7.07 |
| T7.3, Annual croplands, Sown pastures and fields, Derived semi-natural pastures and old fields | 7.07 |
| T7.3, Annual croplands, Derived semi-natural pastures and old fields, T7.4 | 5.0 |
| T7.3, Annual croplands, Derived semi-natural pastures and old fields | 5.0 |