

EDF Nuclear Generation Limited (ENGL)

Decommissioning of Hunterston B Nuclear Power Station

EIA Scoping Report - Figures





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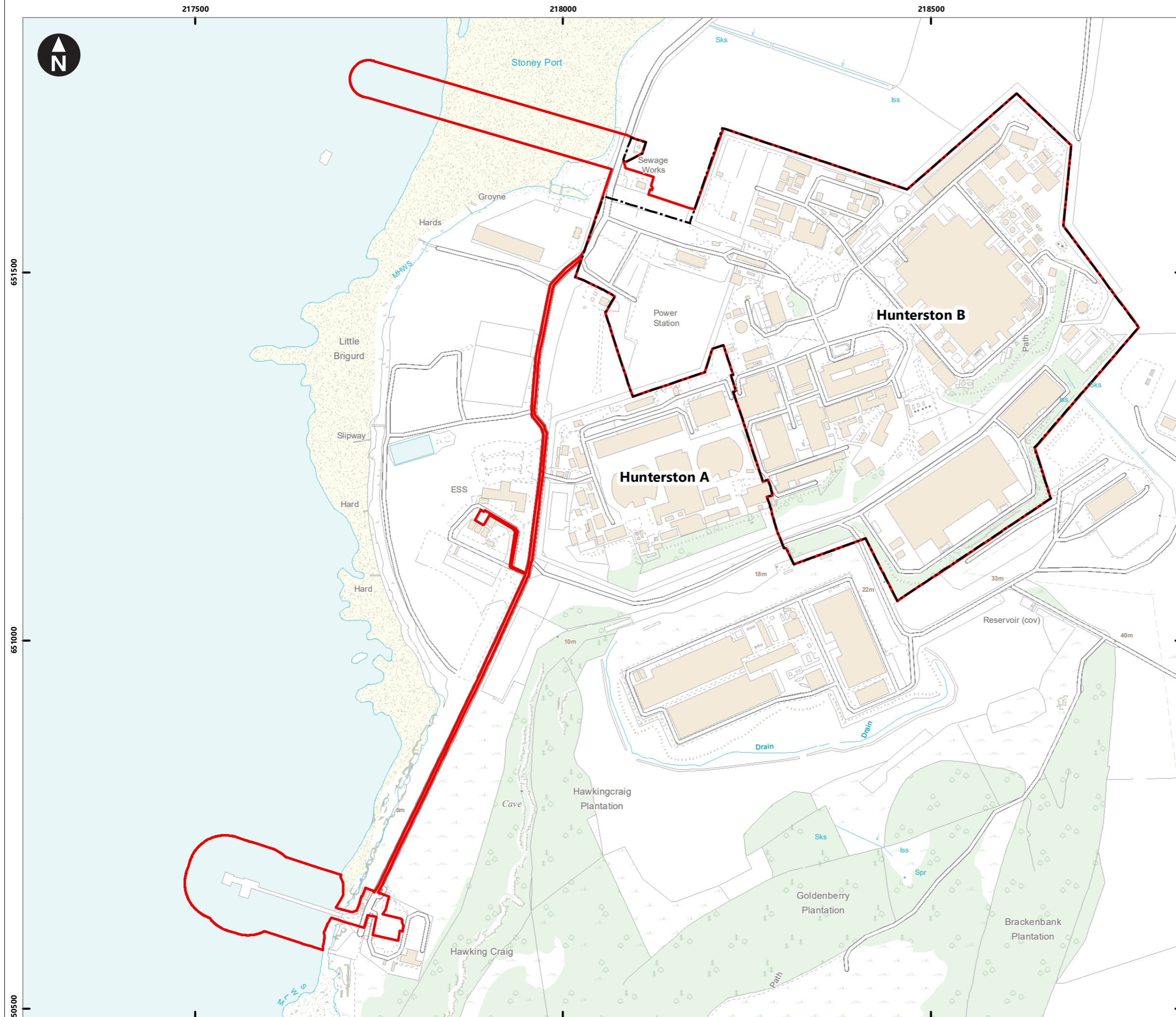
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Key

- Indicative Dismantling Works Area ("Works Area")
- Nuclear Site Licence Boundary ("The Site")

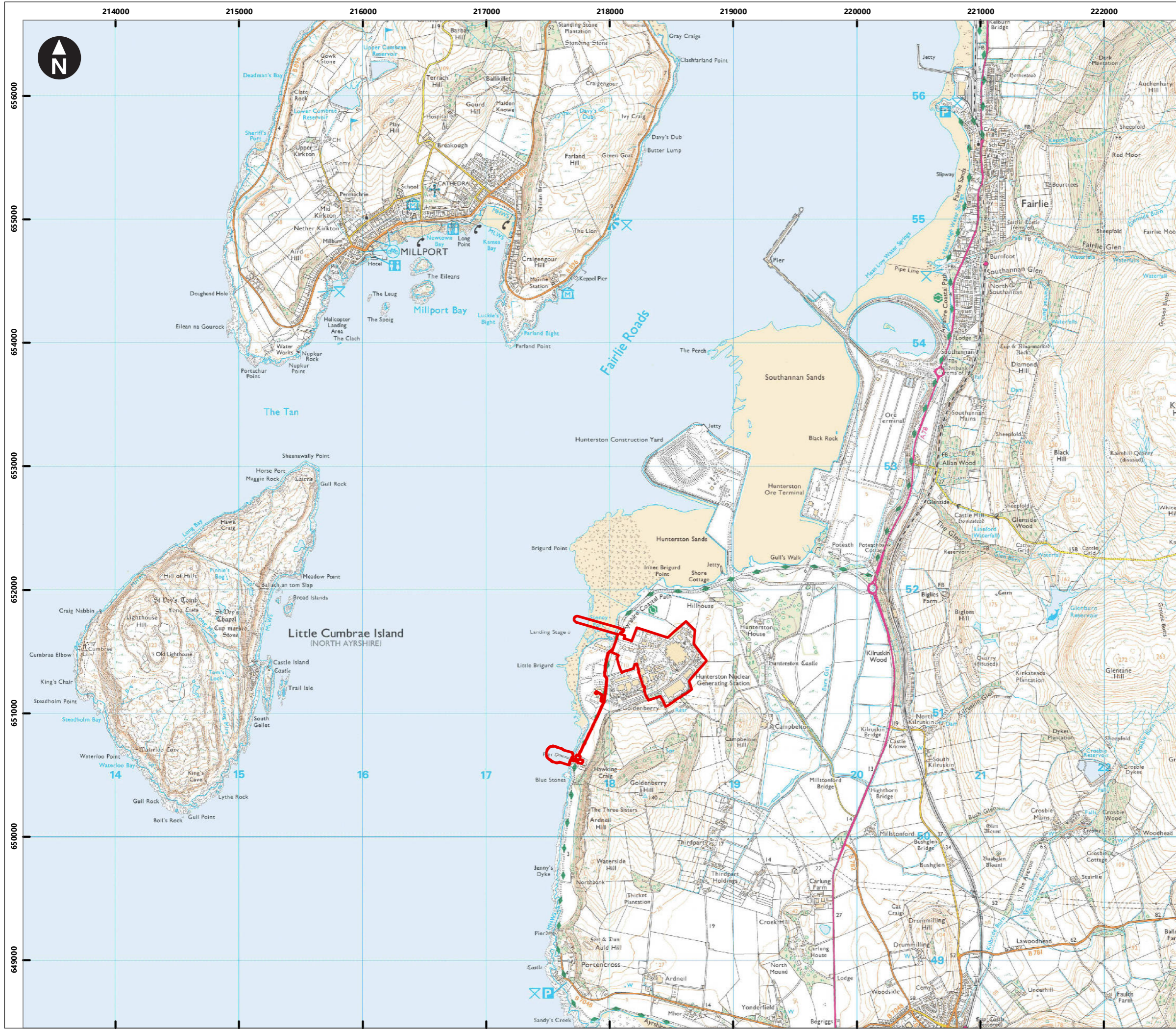
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Figure 1.1
HNB Indicative Dismantling Works Area (Works Area)

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Key

Indicative Dismantling Works Area ("Works Area")

0 250 500 750 1,000 1,250 1,500 1,750 m

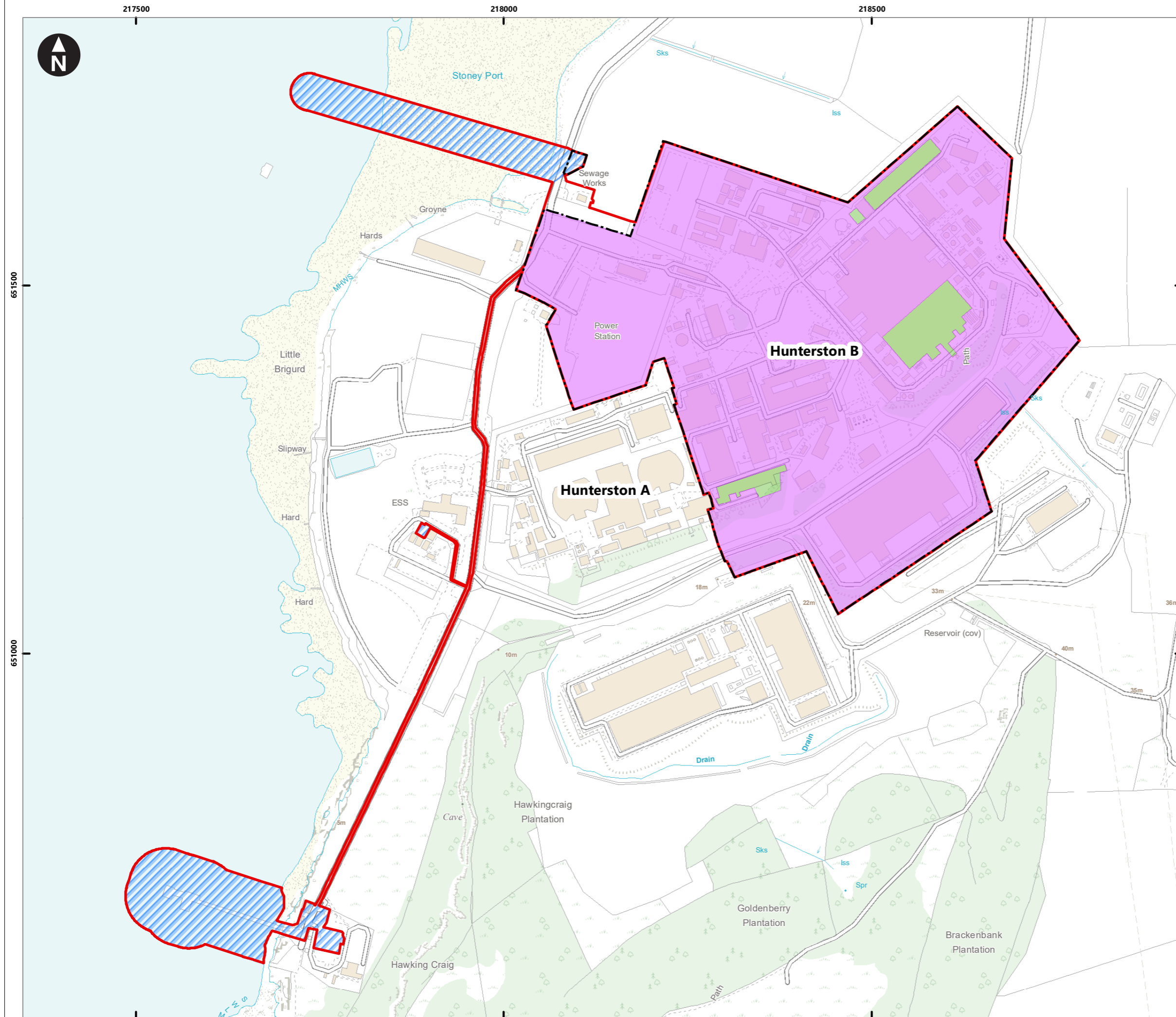
Scale at A3: 1:30,000

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Figure 2.1
Site location

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Key

- Indicative Dismantling Works Area ("Works Area")
- Nuclear Site Licence Boundary ("The Site")

Works Area

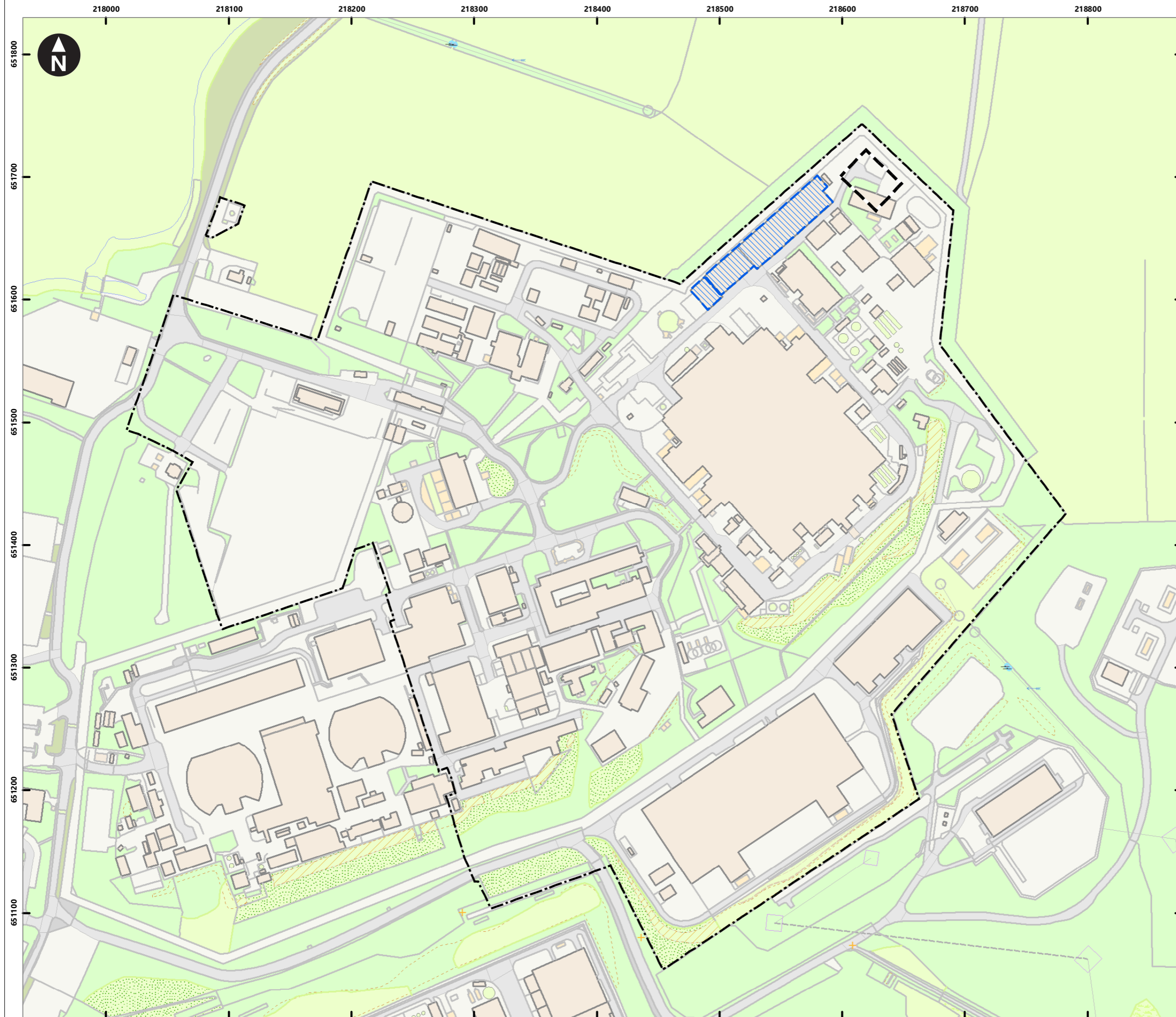
- Radiation Controlled Area
- The Conventional Area
- The Marine Area

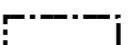


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Figure 2.2
Layout of the Works Area

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- Key
-  Nuclear Site Licence Boundary ("The Site")
 -  Proposed Operational Waste Processing Facility (OWPF)
 -  Buildings to be re-purposed as the Decommissioning Waste Processing Facility (DWPF)

0 50 100 150 m
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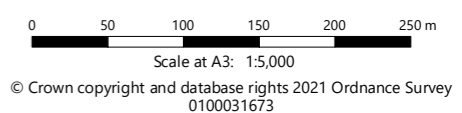
Figure 2.3
Location of re-purposed building for DWPF and proposed OWPF location

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Key

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- Nuclear Site Licence Boundary ("The Site")
- Safestore structure



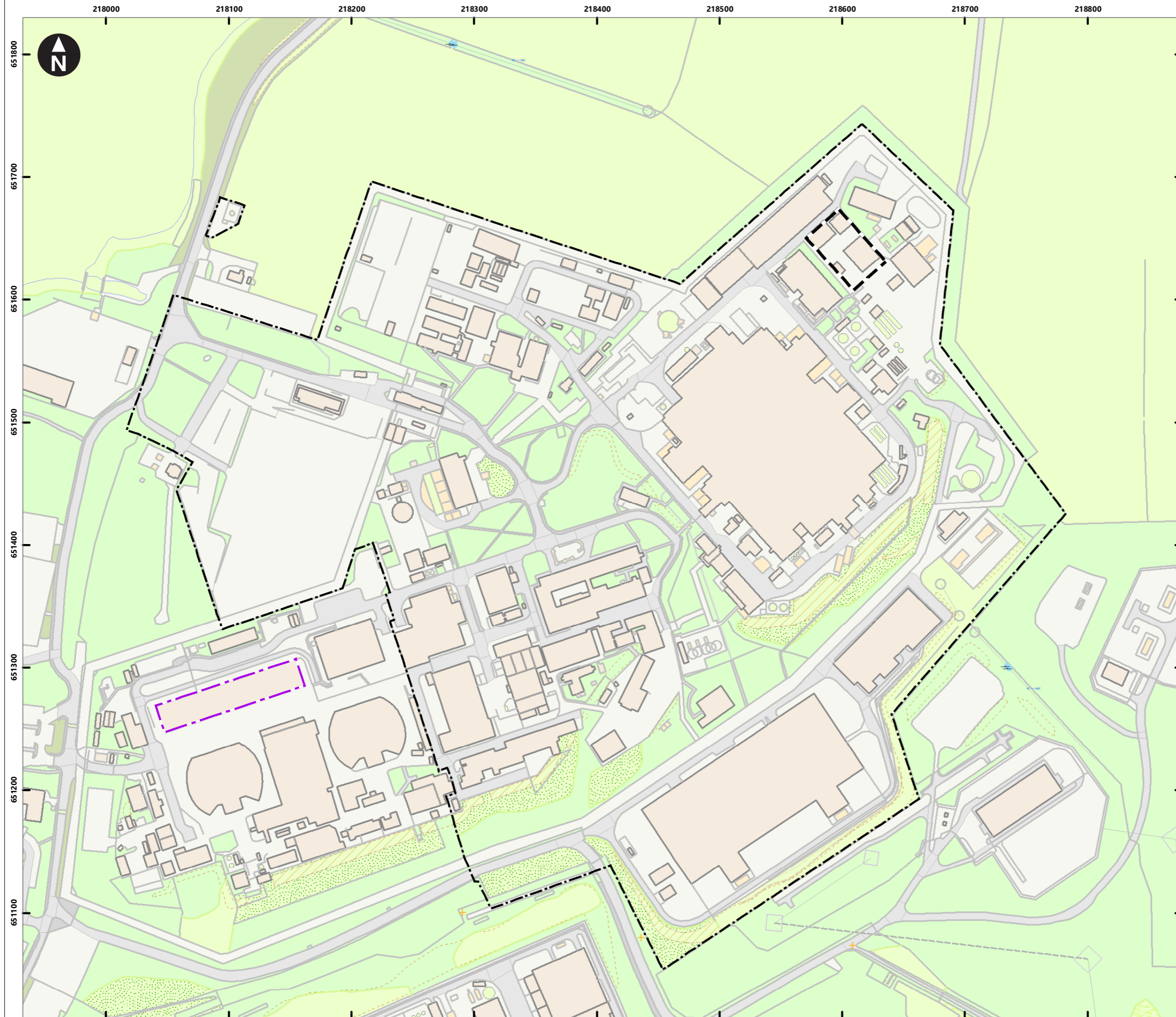
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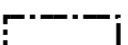


Figure 2.4
Safestore footprint

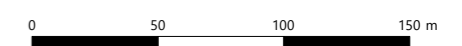
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- Key
-  Nuclear Site Licence Boundary ("The Site")
 -  HNB Proposed ILW Store New Build Option
 -  Existing HNA ILW Store



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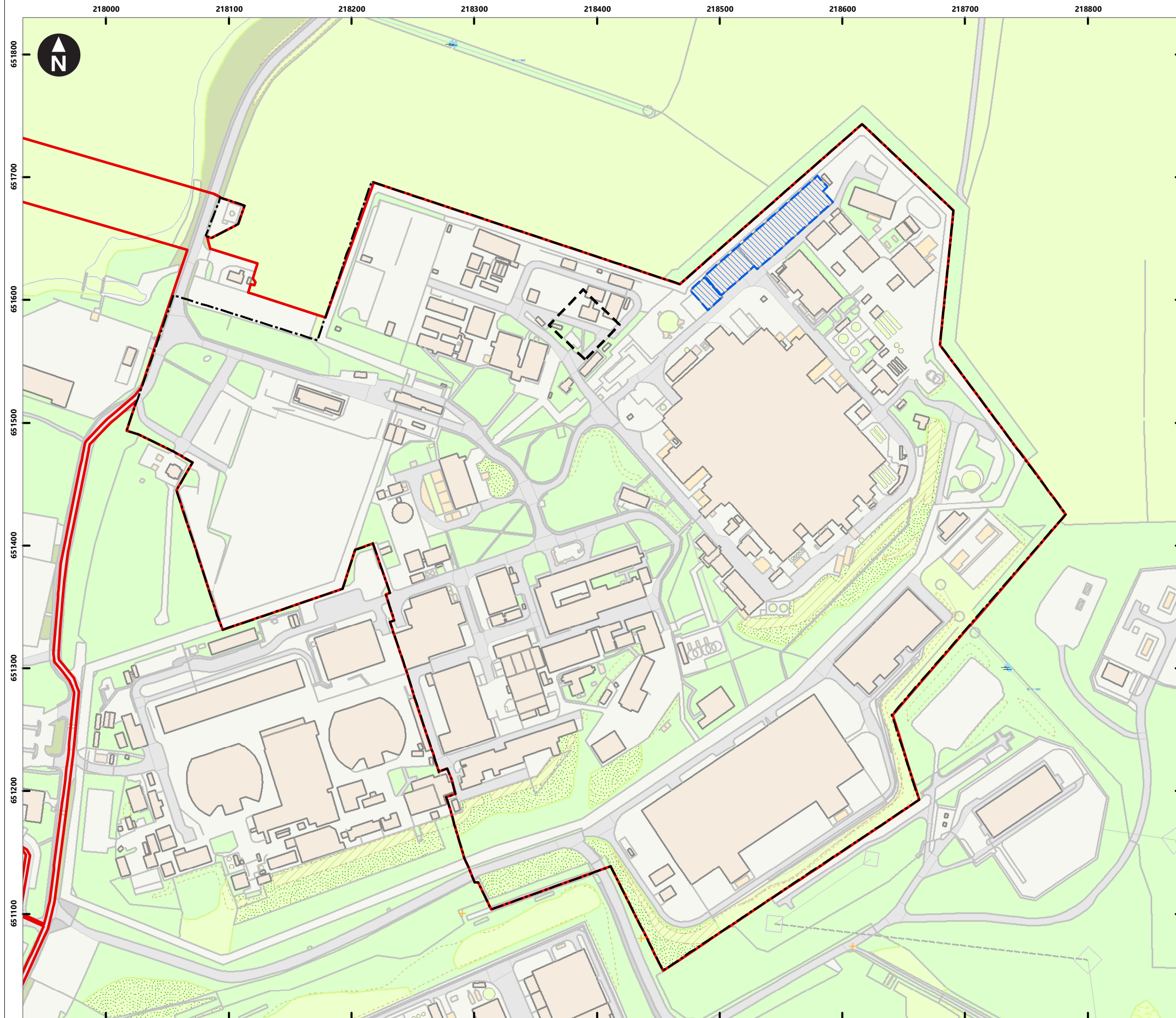
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Figure 2.5
Options considered for the ILW store

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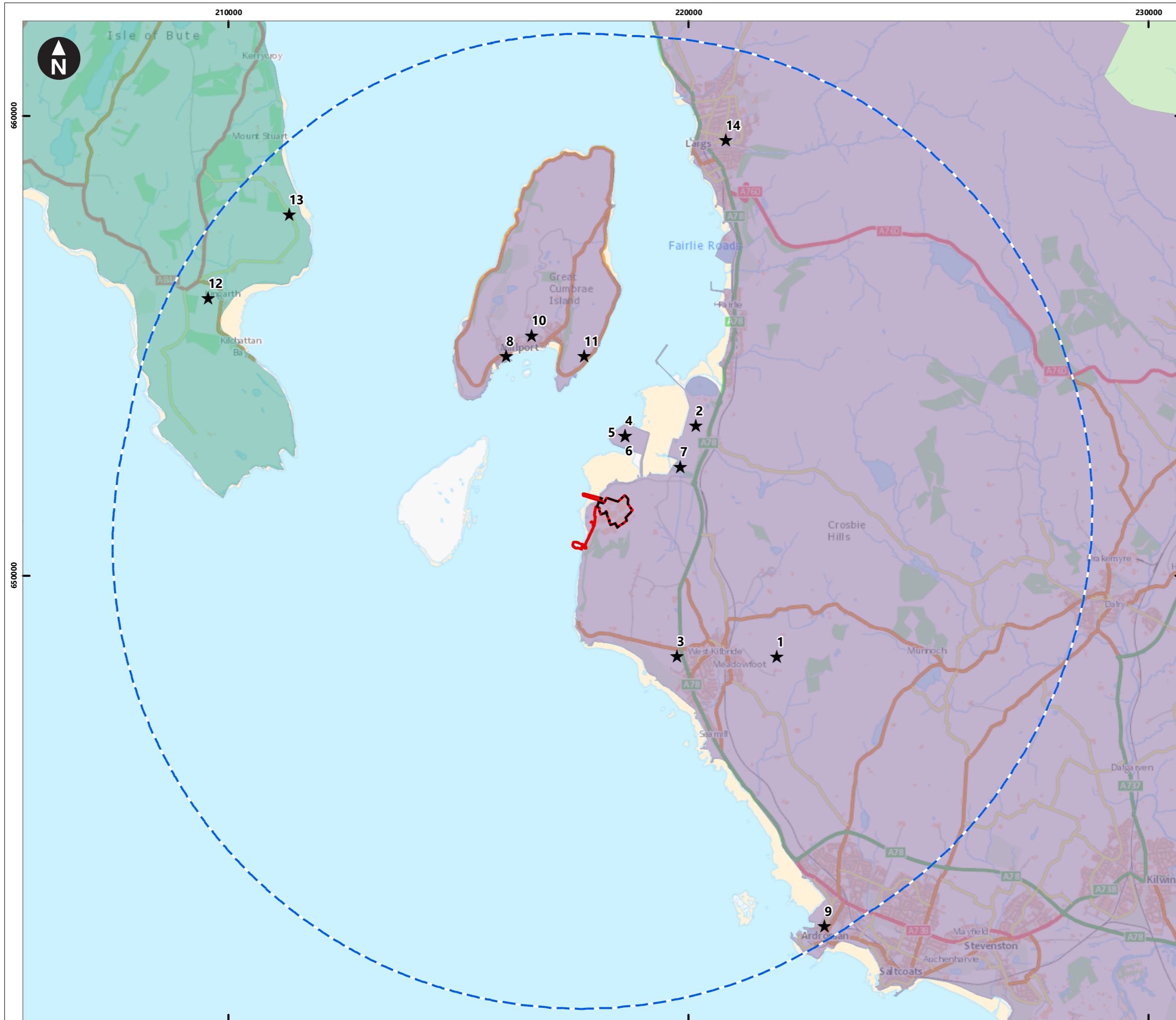
- Key
- Indicative Dismantling Works Area ("Works Area")
 - Nuclear Site Licence Boundary ("The Site")
 - Buildings to be re-purposed as the Decommissioning Waste Processing Facility (DWPF)
 - Location of new build DWPF option

0 50 100 150 m
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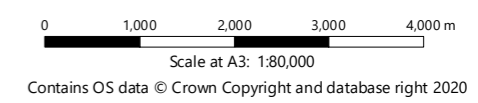
Figure 2.6
Options for the Decommissioning Waste Processing Facility (DWPF)

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Key

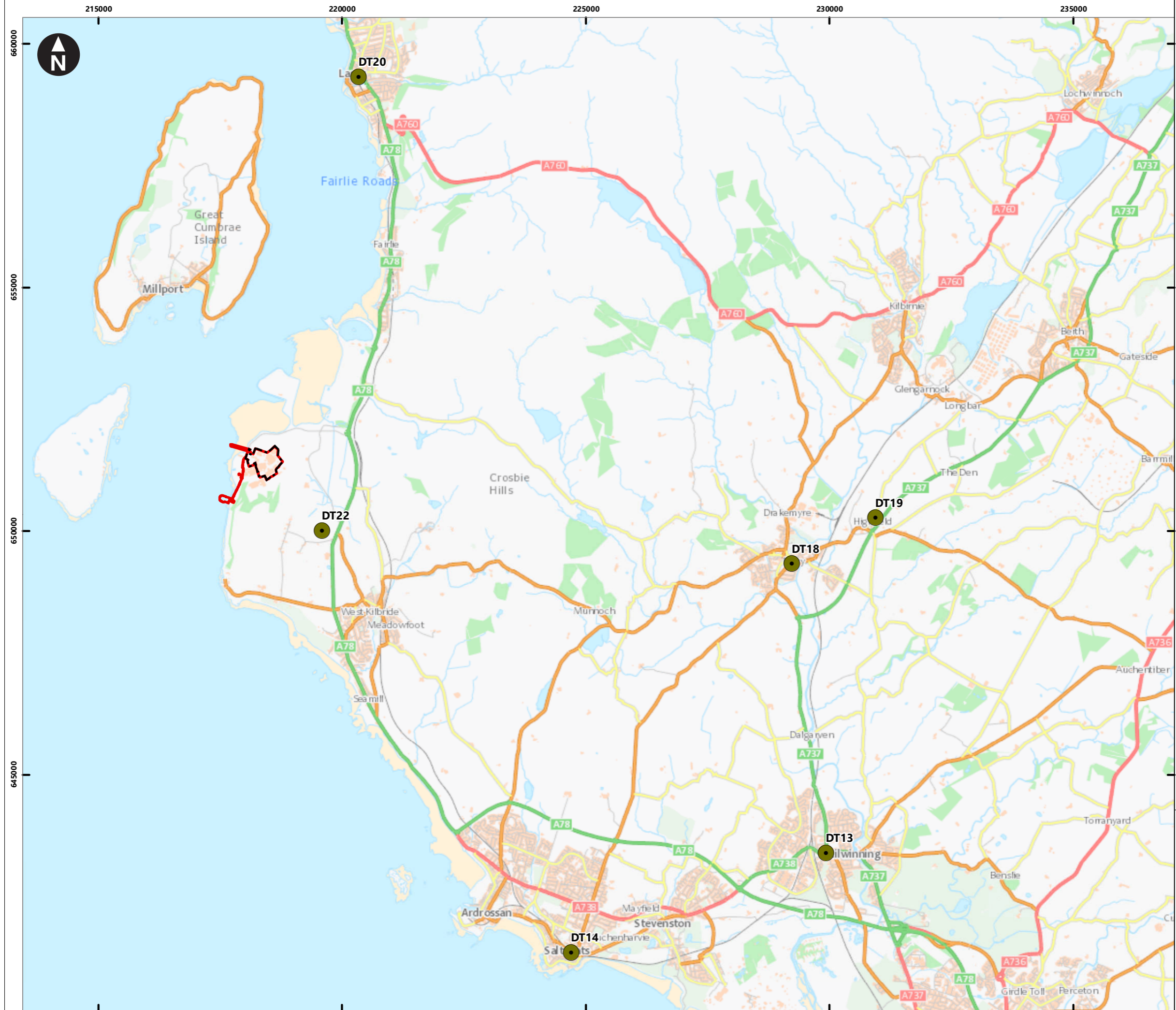
- Indicative Dismantling Works Area ("Works Area")
- Nuclear Site Licence Boundary ("The Site")
- Zone of Influence
- Argyll & Bute
- North Ayrshire
- Renfrewshire
- Other development



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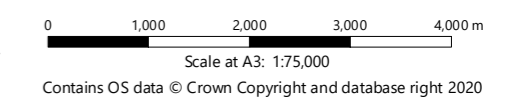
Figure 4.1
Other developments for cumulative impact assessment

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Key

- Indicative Dismantling Works Area ("Works Area")
- Nuclear Site Licence Boundary ("The Site")
- Passive monitoring site



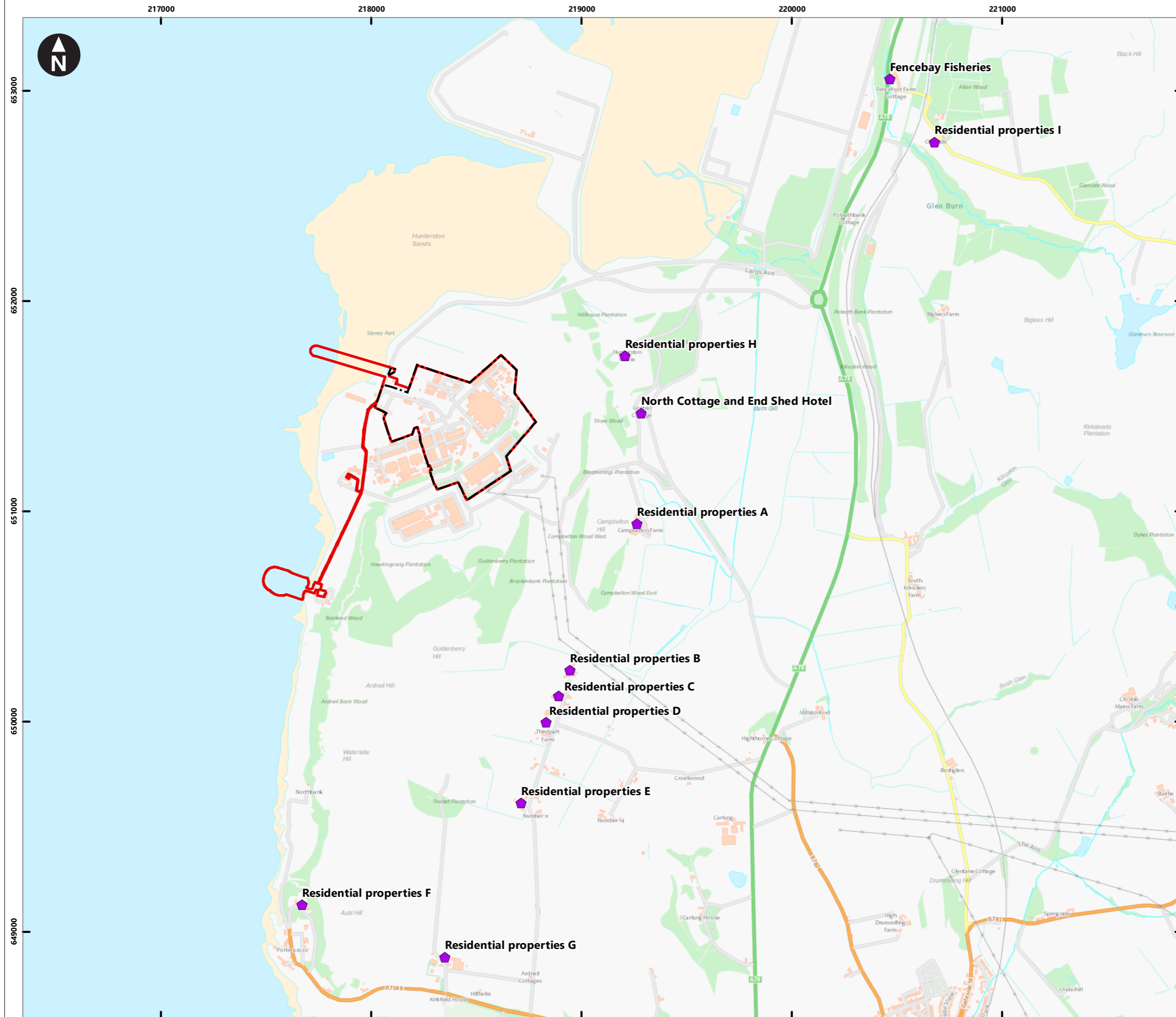
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Figure 5.1
Location of passive monitoring sites closest to the Site

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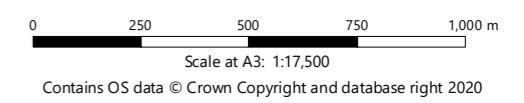


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Key

- Indicative Dismantling Works Area ("Works Area")
- Nuclear Site Licence Boundary ("The Site")
- ◆ Sensitive human receptor



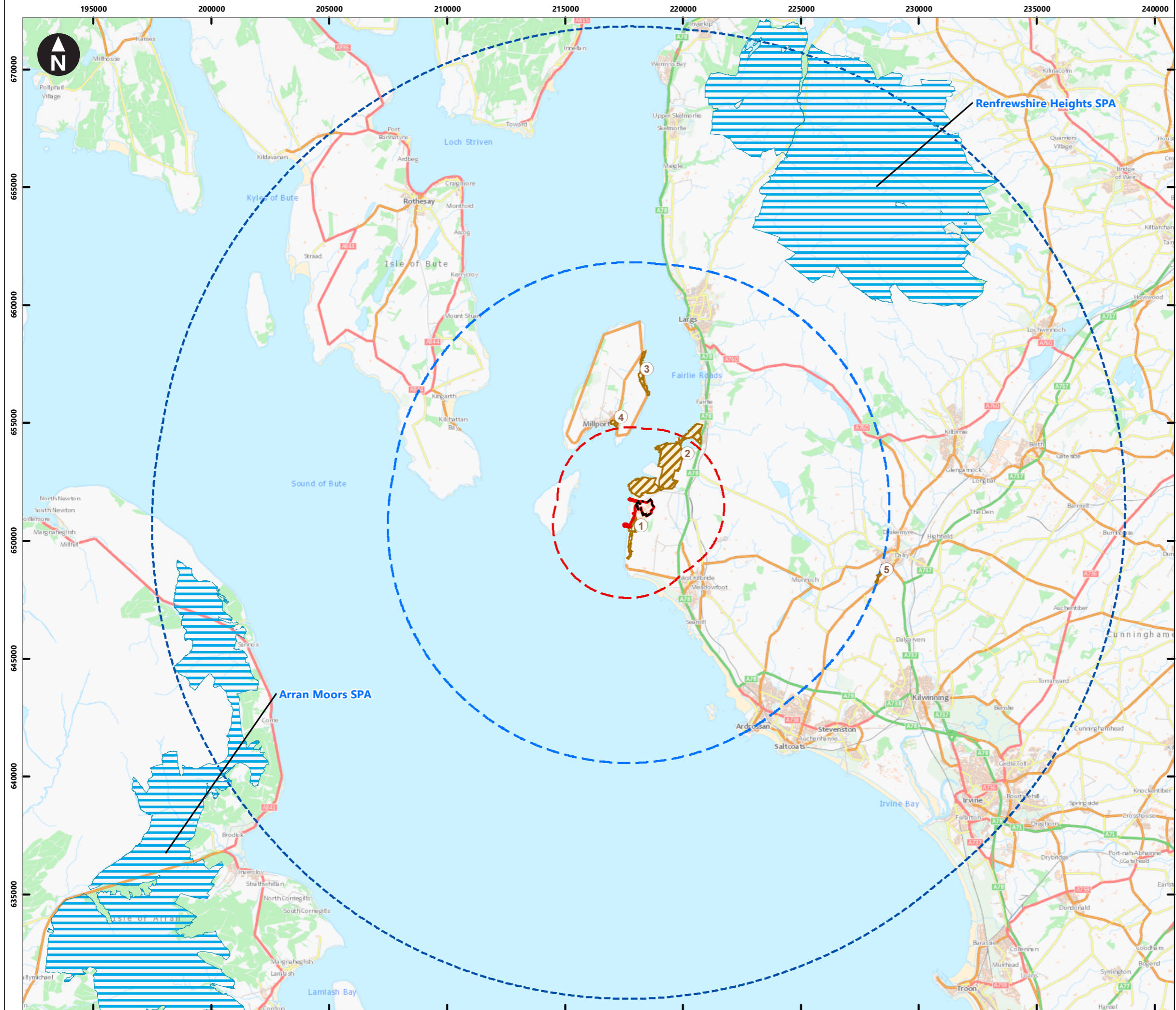
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Figure 5.2
Location of sensitive human receptors in proximity to the site

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Key

- Indicative Dismantling Works Area ("Works Area")
- Nuclear Site Licence Boundary ("The Site")
- 3km search area
- 10km search area
- 20km search area
- Special Protection Area (SPA)
- Site of Special Scientific Interest (SSSI)
 1. Portencross Woods
 2. Southannan Sands
 3. Ballochmartin Bay
 4. Kames Bay
 5. Lynn Spout

0 2,000 4,000 6,000 8,000 m
 Scale at A3: 1:155,000
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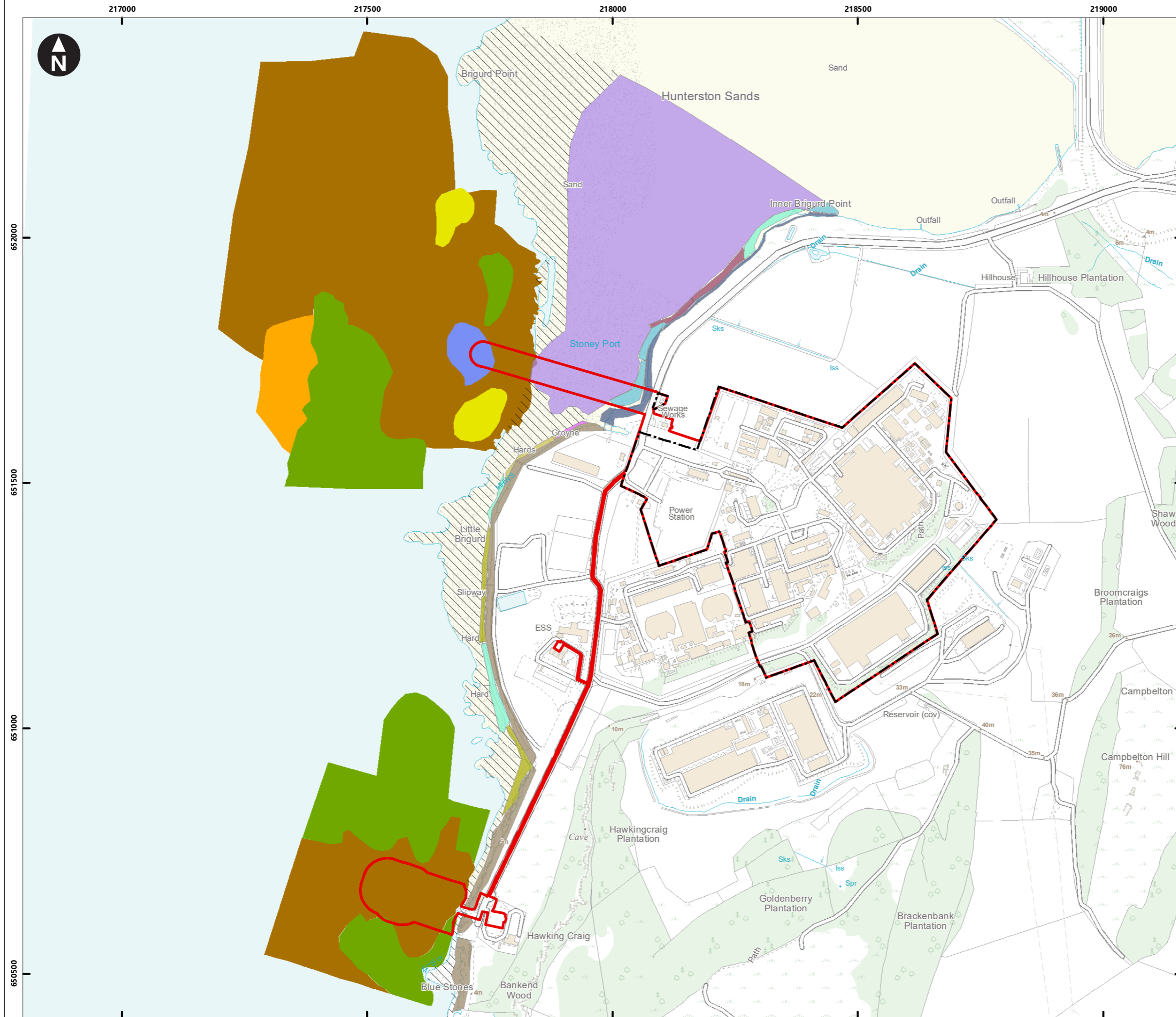
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Figure 7.1
Study area (including statutory biodiversity sites)

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Key

- Indicative Dismantling Works Area ("Works Area")
- Nuclear Site Licence Boundary ("The Site")

Intertidal habitats

- IR.MIR.KR.L.dig
- IR.HIR
- IR.MIR.KR.L.dig
- LR.FLR.Eph.EphX
- LR.LLR.FAsc.X
- LR.LLR.FVS.AscVS
- LR.MLR.BF.Fser.Bo
- LR.MLR.BF.Fser.R
- LS.LCS.Sh.BarSh
- LS.LSa.MuSa
- SS.SMu.ISaMu
- Non Accessible Subtidal

Subtidal habitats

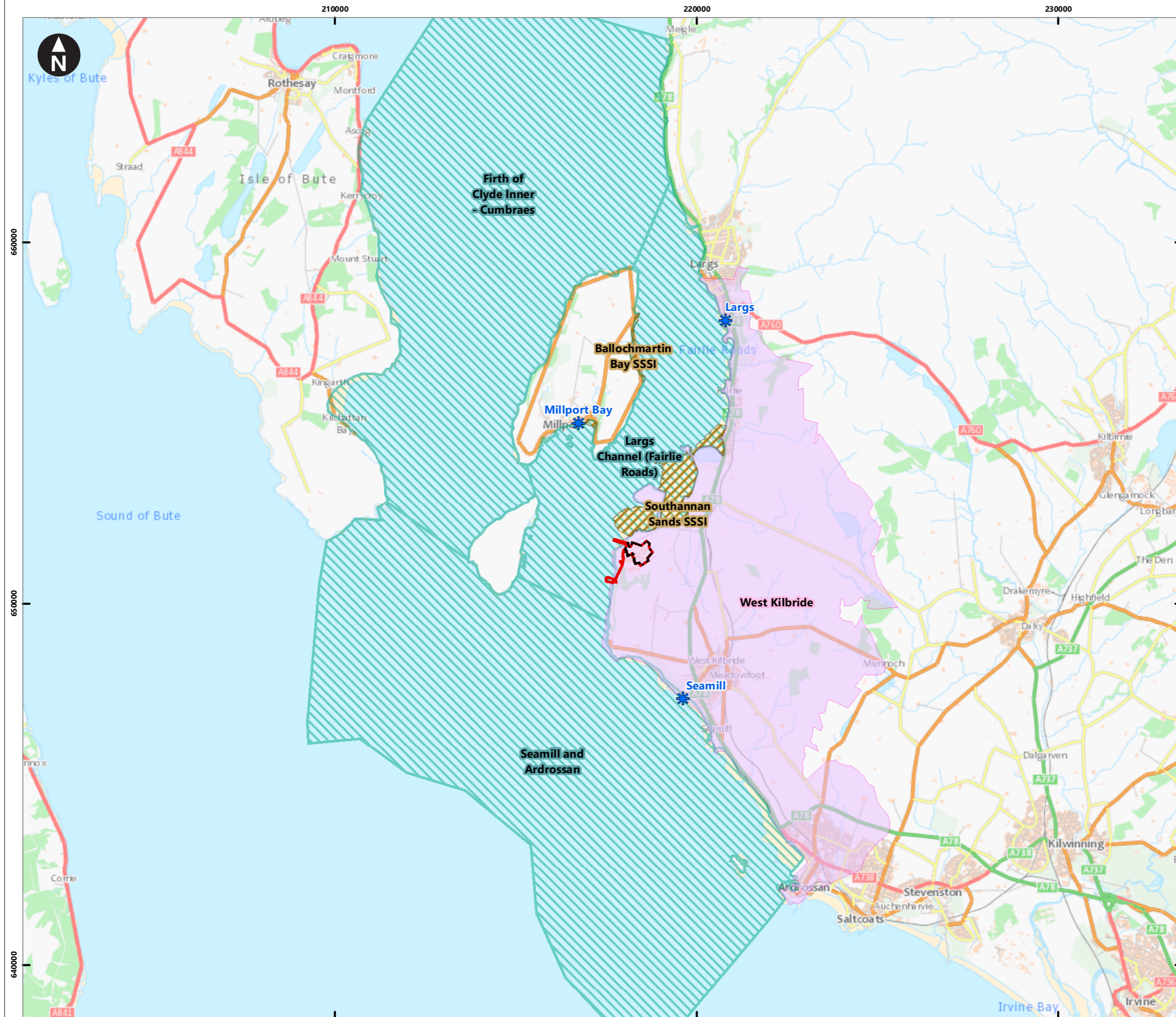
- Sublittoral sand
- Macrophyte dominated sediment
- Low energy infralittoral rock
- High energy infralittoral rock
- Discharge boil area

0 100 200 300 400 m
Scale at A3: 1:7,500
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Figure 8.1
Intertidal and Subtidal habitats within the Study Area

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- Key
- Indicative Dismantling Works Area ("Works Area")
 - Nuclear Site Licence Boundary ("The Site")
 - Site of Special Scientific Interest (SSSI)
 - Groundwater WFD water body
 - Coastal WFD water bodies
 - ✱ Bathing Waters

0 1,000 2,000 3,000 4,000 5,000 m
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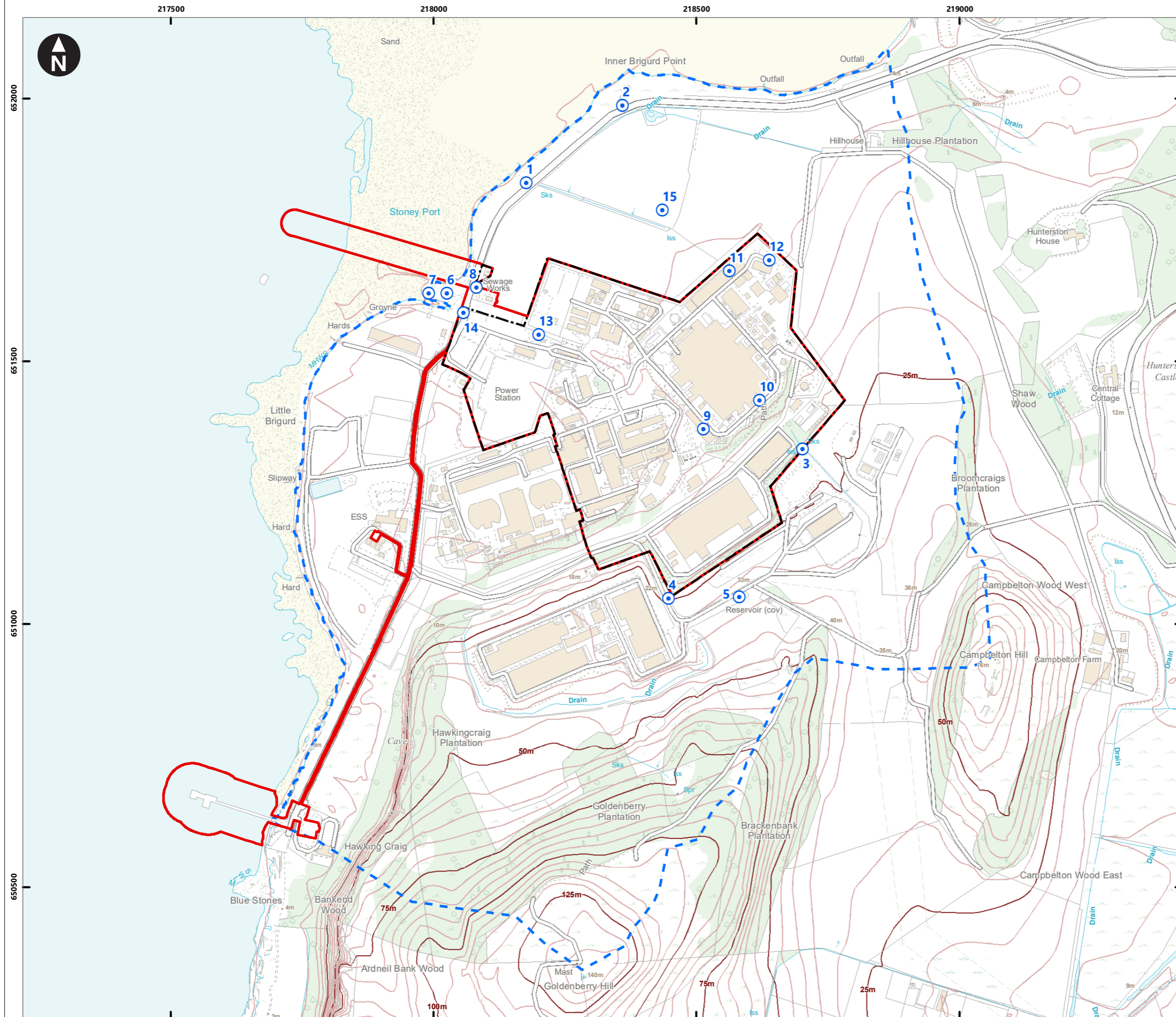
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Figure 9.1
Designated sites

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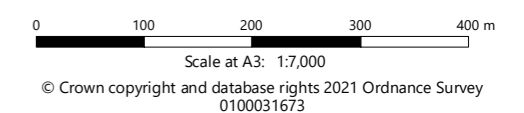


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Key

- Indicative Dismantling Works Area ("Works Area")
- Nuclear Site Licence Boundary ("The Site")
- Surface Water and Flood Risk Study Area
- Point of Interest (POI)

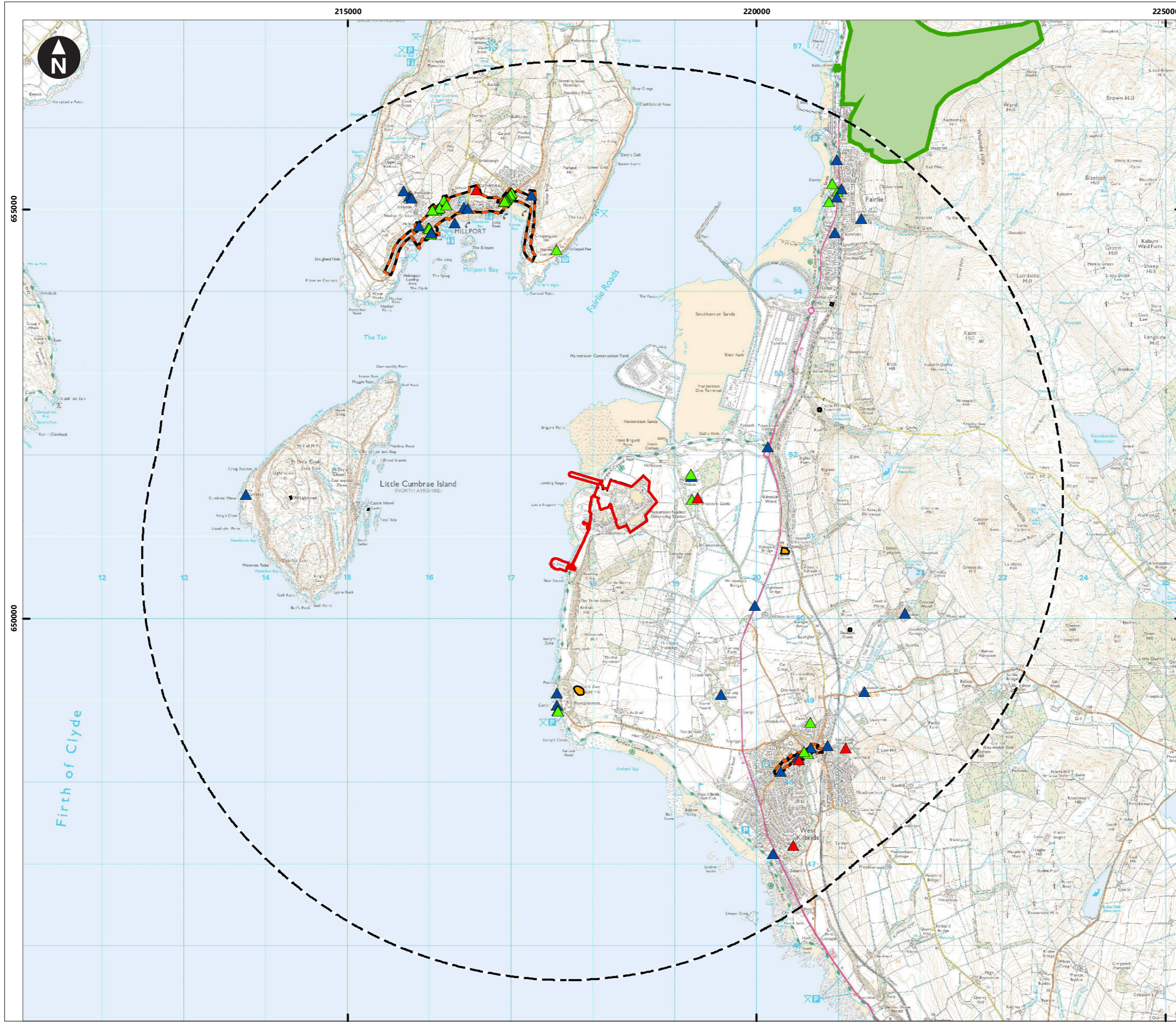


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Figure 10.1
Surface water and flood risk study area

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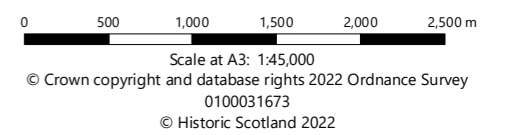


Key

- Indicative Dismantling Works Area ("Works Area")
- Nuclear Site Licence Boundary ("The Site")
- Study area (5km buffer)
- Gardens and Designed Landscapes
- Scheduled Monument
- Conservation Area

Listed Building

- ▲ Grade A
- ▲ Grade B
- ▲ Grade C

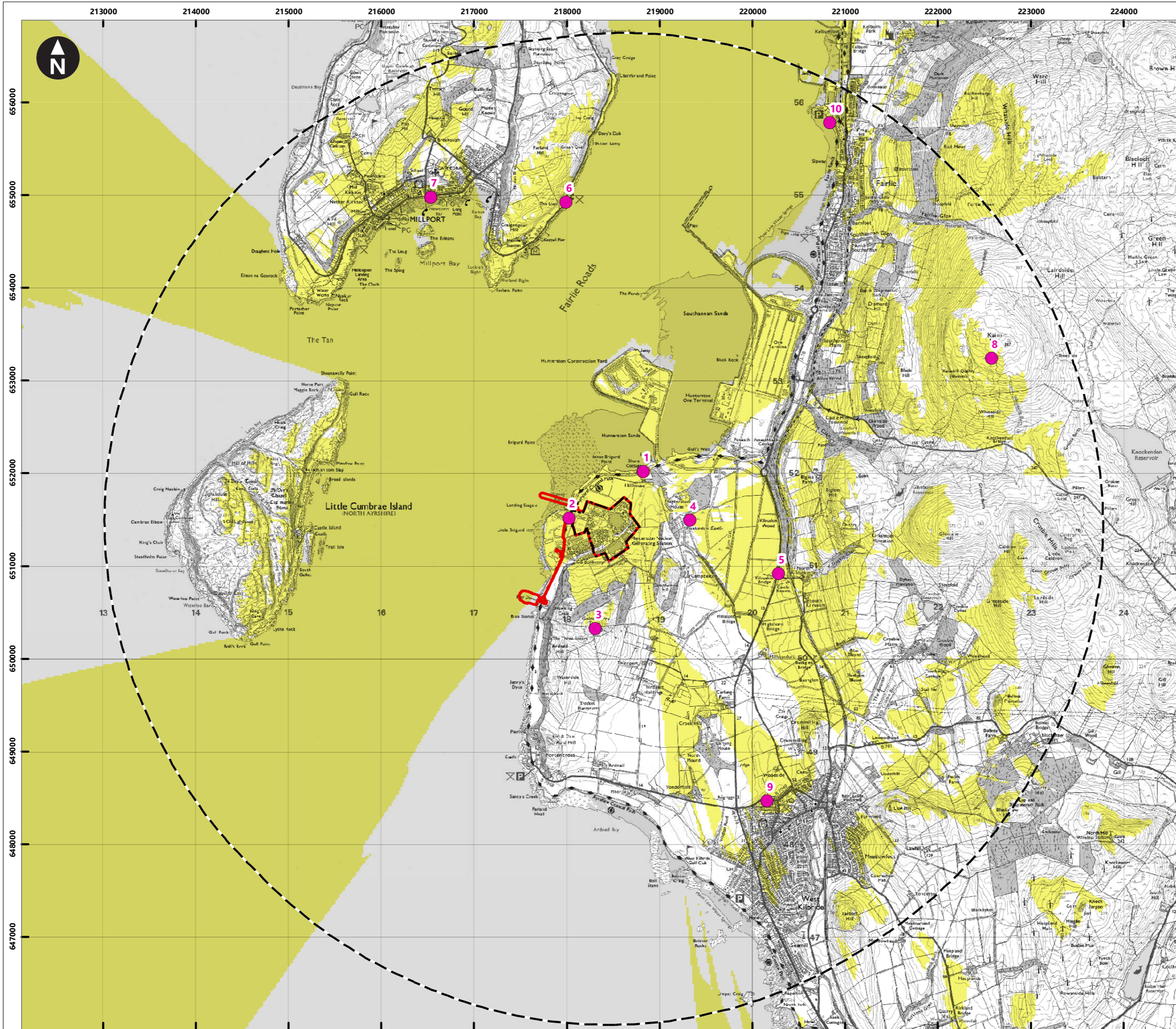


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Figure 12.1
Designated heritage assets (Historic Environment Scotland data, 2020)

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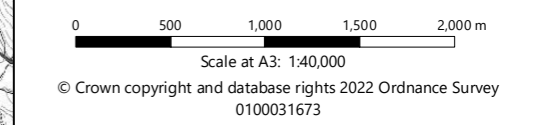
Key

- Indicative Dismantling Works Area ("Works Area")
- Nuclear Site Licence Boundary ("The Site")
- Landscape and Visual Study Area
- Viewpoint locations

VP1 Ayrshire Coastal Path (approach from the east)
 VP2 Ayrshire Coastal Path (approach from the west)
 VP3 Goldenberry Hill
 VP4 Core Path NC 36 near Hunterston Castle
 VP5 A78 near junction with Kilrusken Toll
 VP6 'The Lion', Great Cumbrae
 VP7 Millport, Great Cumbrae
 VP8 Kaim Hill
 VP9 West Kilbride (Portencross Road)
 VP10 Fairlie (Allenton Park Terrace)

Elements of the reactor building may be visible

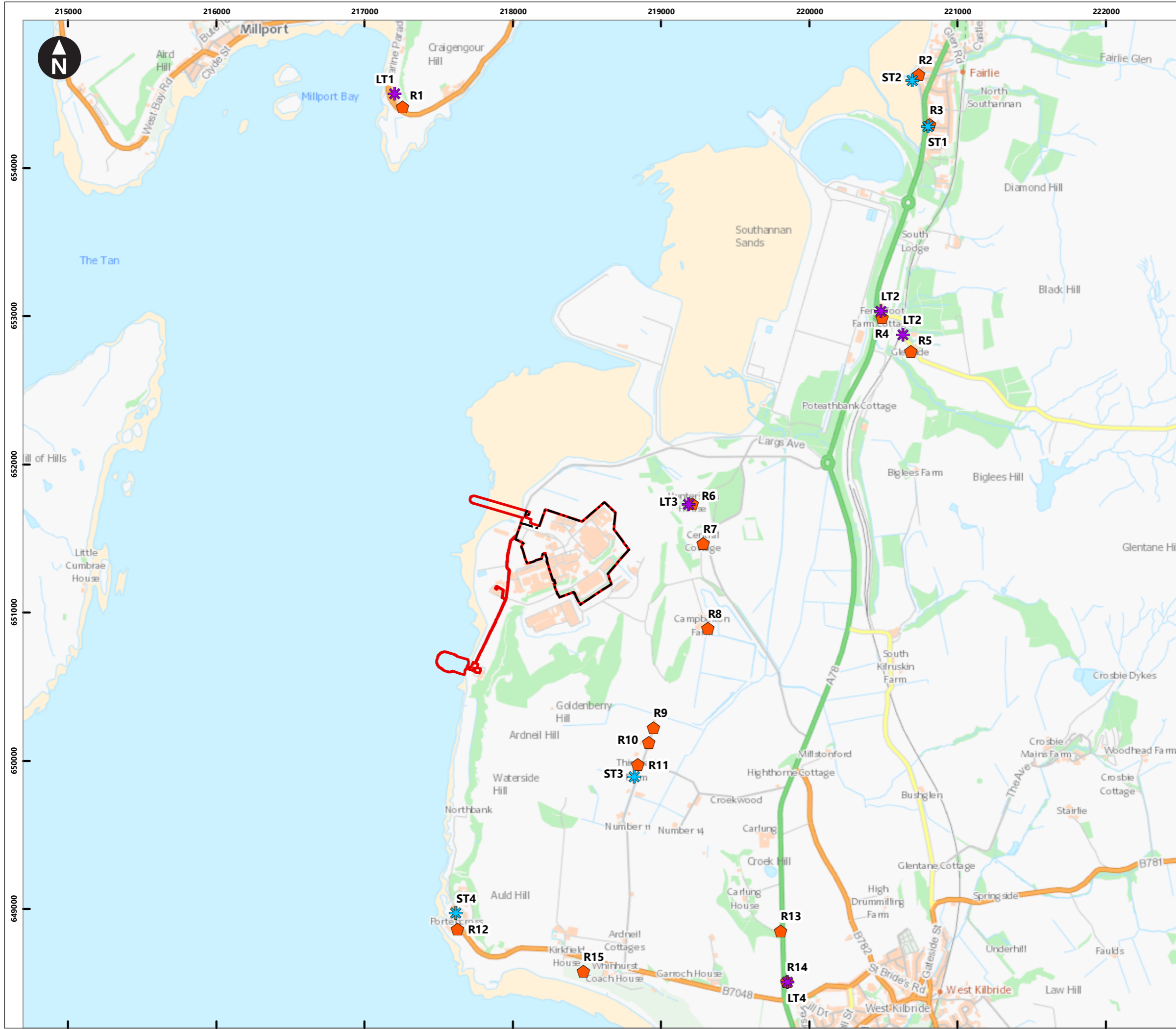
Notes:
 The ZTV does not take into account the screening effects of buildings.
 Woodland exclusion zones have been created using OS Vectormap District boundary data and modelled at a generic height of 12m.
 The ZTV has been modelled using OS Terrain 5 height data.



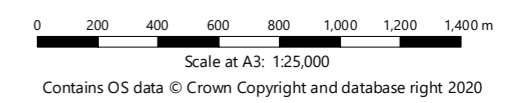
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**Figure 13.1
 Preliminary Zone of Theoretical Visibility and viewpoint locations**

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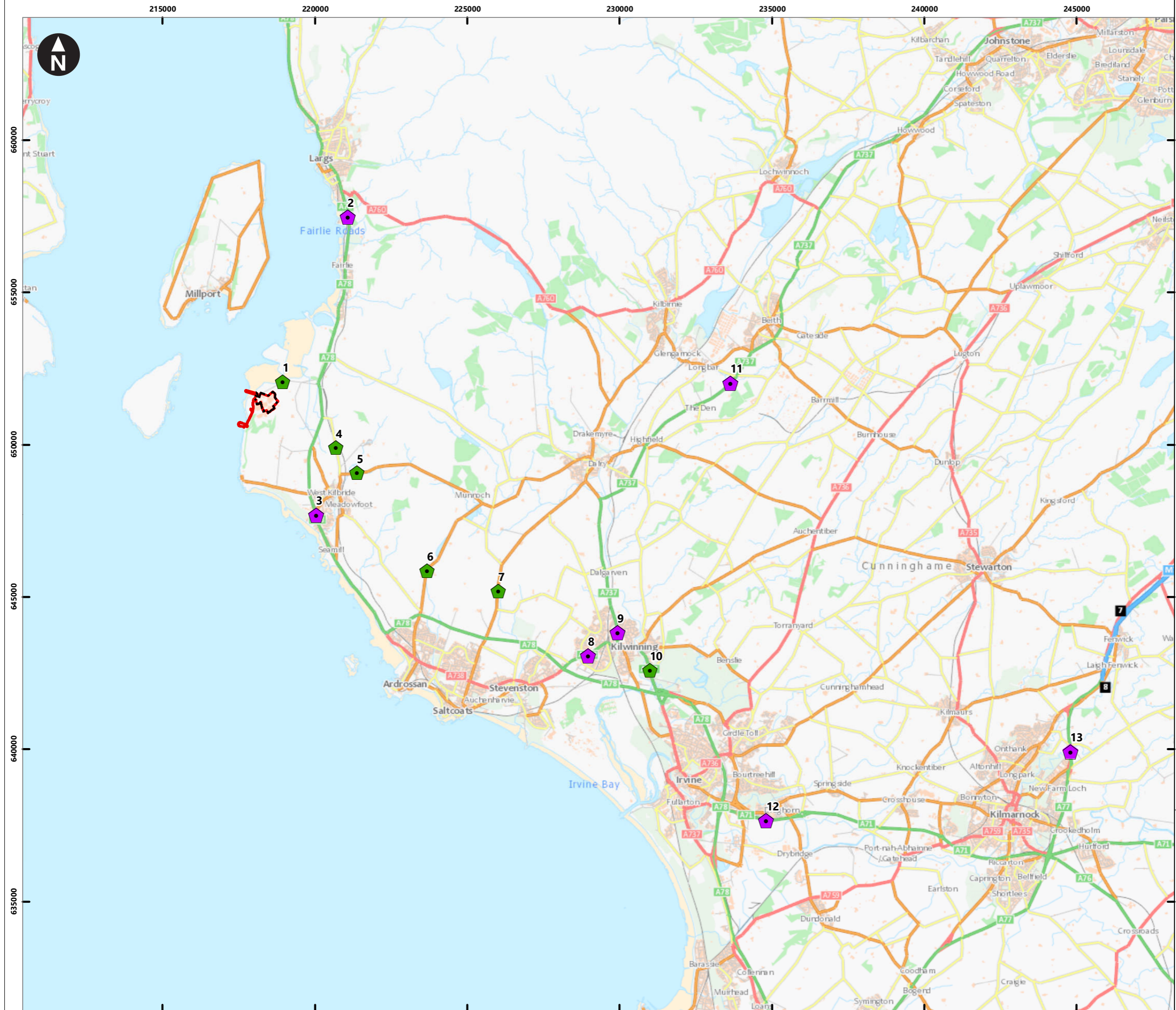
- Key
- Indicative Dismantling Works Area ("Works Area")
 - Nuclear Site Licence Boundary ("The Site")
 - ✱ Short term monitoring location
 - ✱ Long term monitoring location
 - ⬠ Receptor



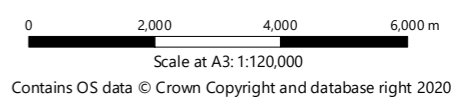
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Figure 14.1
Baseline survey locations and noise sensitive receptors

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- Key
- Indicative Dismantling Works Area ("Works Area")
 - Nuclear Site Licence Boundary ("The Site")
 - ▣ Automatic Traffic Count (ATC) location 2021
 - ▣ Department for Transport (DfT) data



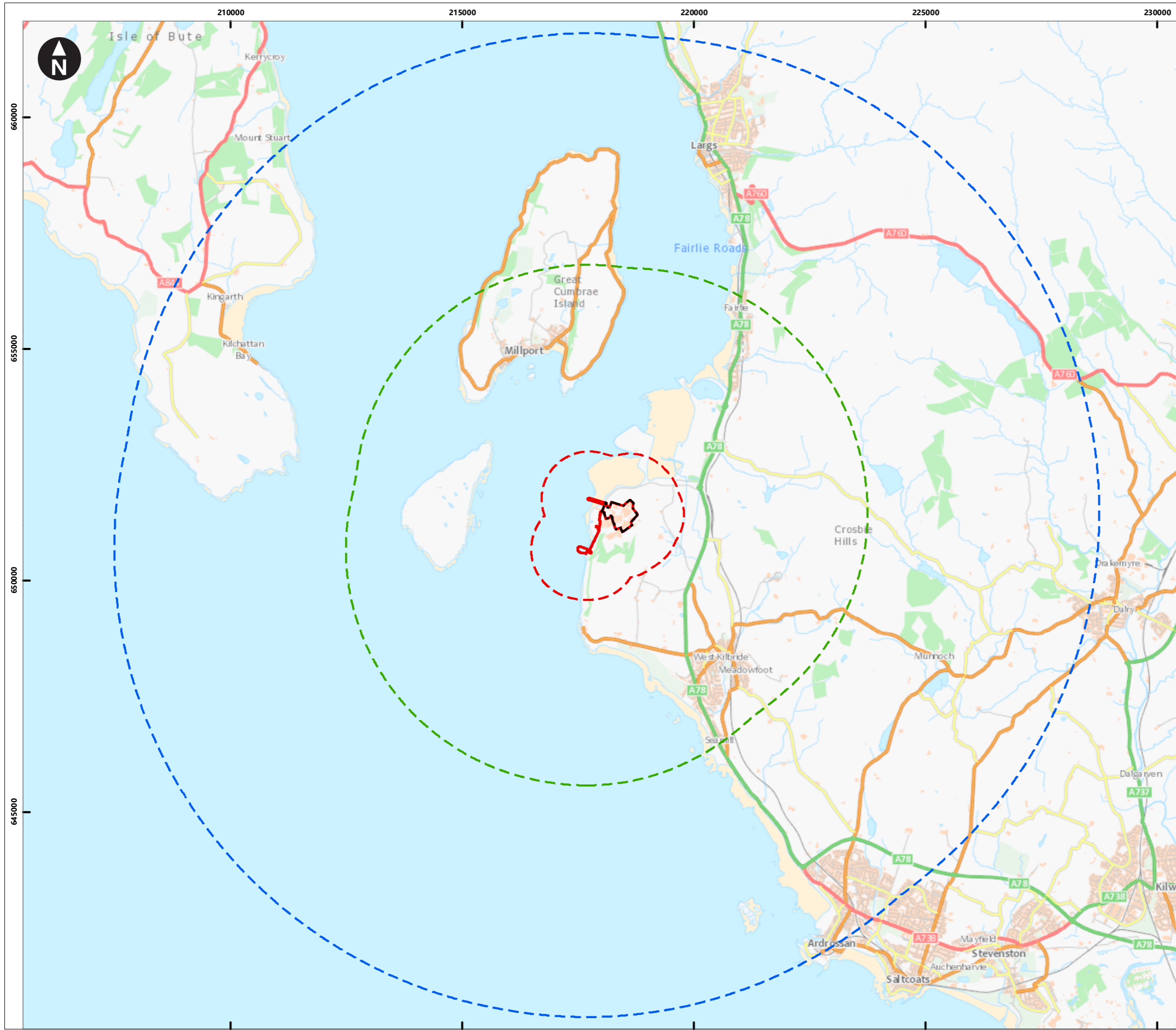
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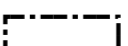




Figure 15.1
Traffic and transport study area

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- Key
-  Nuclear Site Licence Boundary ("The Site")
 -  Indicative Dismantling Works Area ("Works Area")
 -  Groundwater receptors (1km buffer)
 -  Historic environment receptors (5km buffer)
 -  Human population, marine, land based and surface water receptors (10km buffer)



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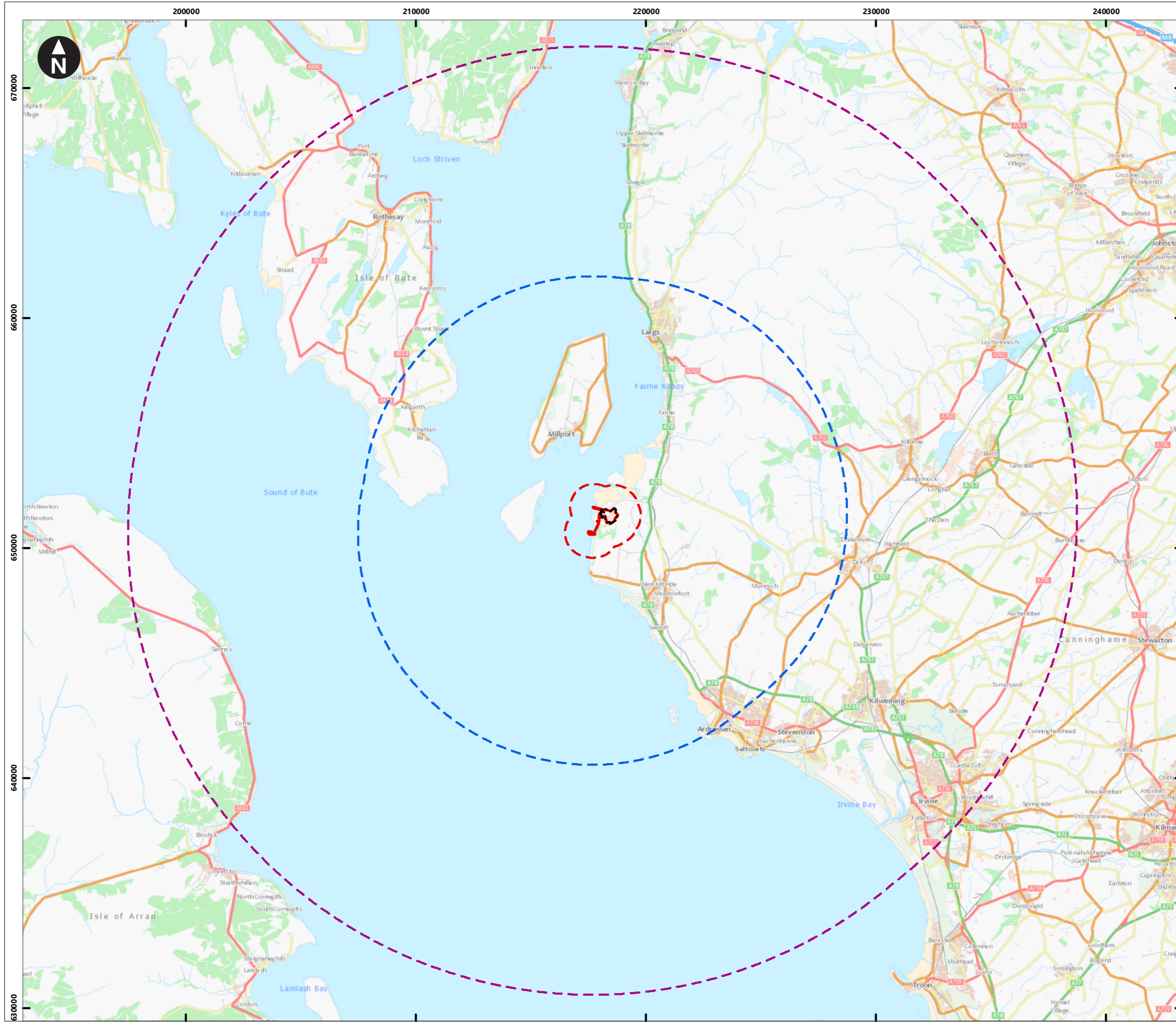
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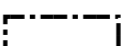




Figure 17.1
Study area for external receptors: major accidents and disasters

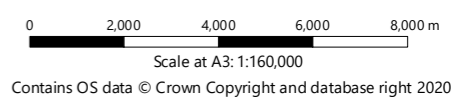
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- Key
-  Nuclear Site Licence Boundary ("The Site")
 -  Indicative Dismantling Works Area ("Works Area")
 -  Major accident hazard pipelines (1km buffer)
 -  External sites with hazardous consultation distances, licensed explosives sites or Major Accident Control Regulations (MACR) sites (10km buffer)
 -  Airports (20km buffer)



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Figure 17.2
Study area for sources of external hazards: major accidents and disasters

wood.