



Sutherland Spaceport



Highlands and Islands Enterprise  
Iomairt na Gàidhealtachd 's nan Eilean

# DESIGN RESPONSE TO ENVIRONMENTAL CONSTRAINTS

There are a number of environmental constraints present on site which have informed how the design of the proposed development has progressed. The annotated plan below demonstrates how the design has responded to the key environmental constraints.

**KEY**

- LSIF** - Launch Site Integration Facility
- LOCC** - Launch Operations Control Centre
- GWDE** - Ground Water Dependent Terrestrial Ecosystem

All buildings and car parking positioned over 50m from watercourses. The launch pad positioned at least 20m from watercourses

LSIF and launch pad positioned away from designated site boundary

LSIF and launch pad location minimises peat excavation

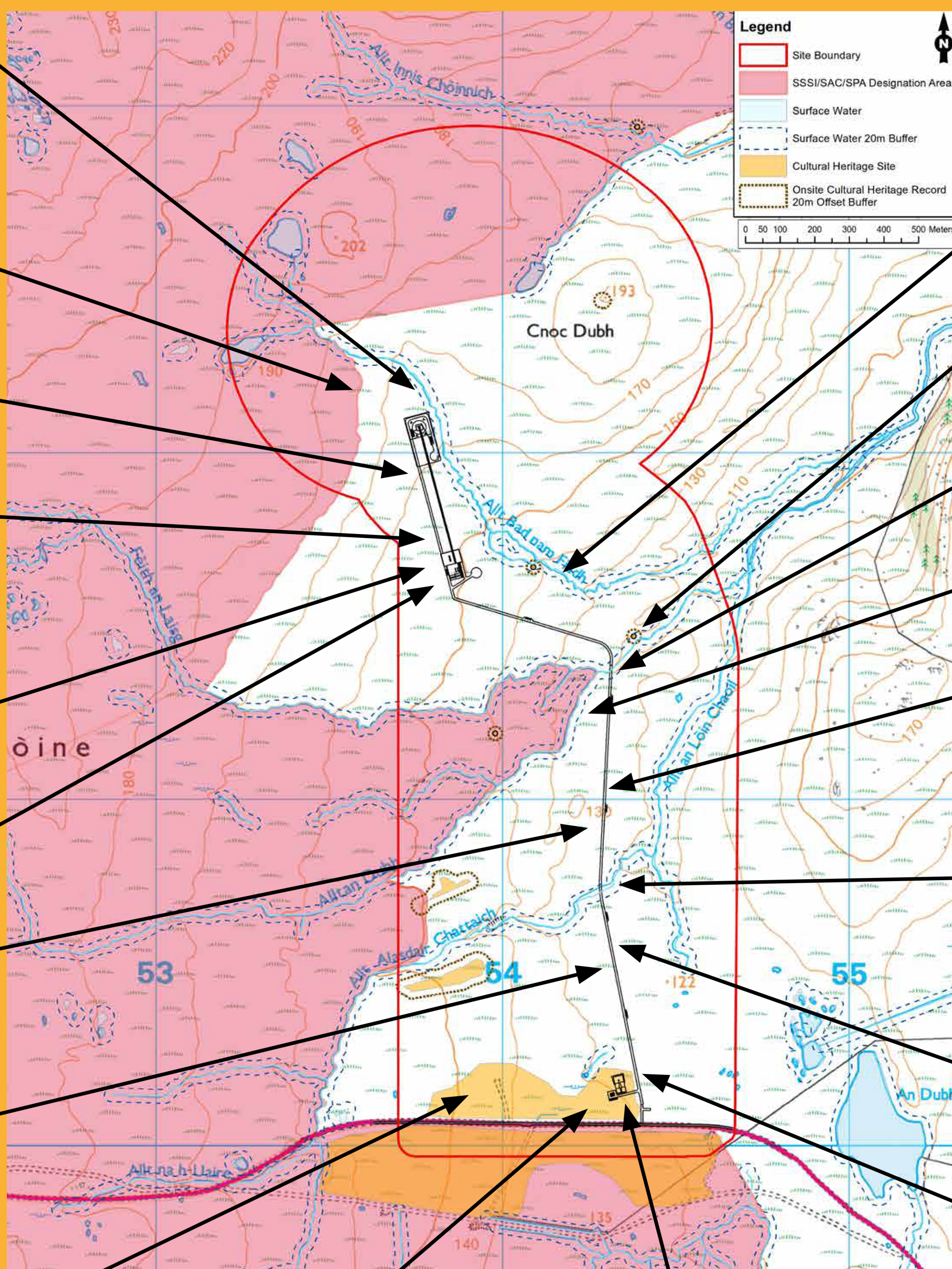
Mitigation would be proposed for any potential impact of the access road and launch pad on GWDE habitat.

LSIF building size kept to minimum required to minimise visual impact

LSIF building positioned to avoid areas of GWDE

Road and infrastructure positioned to avoid deep peat as far as possible

LOCC, LSIF and launch pad positioned outwith wading bird territories. Road construction would avoid the breeding season.



Minimising number of watercourse crossings

Road routed to avoid cultural heritage assets

Road crosses watercourses at perpendicular angle

Road routed and designed to avoid designated sites

Use of cuttings and existing landform to reduce visibility of access road

Use of half barrel culvert or similar for watercourse crossings to reduce interference with flows as far as practicable

Minimising excavation of deep peat by floating the roads and parking areas where possible

LOCC located within area of habitat indicative of GWDE. However, subsequent site-specific hydrogeological and hydrological assessment shows this area is not likely to be groundwater-fed

This cultural heritage site is a large peat cutting area of low heritage sensitivity. Cultural heritage consultants have carefully recorded this site

Maximising opportunities for natural screening and reduction of the visibility and prominence of the LOCC in views from the south

Use of the existing mound to screen the car parking from the west and propose new mounding to screen car parking from the east