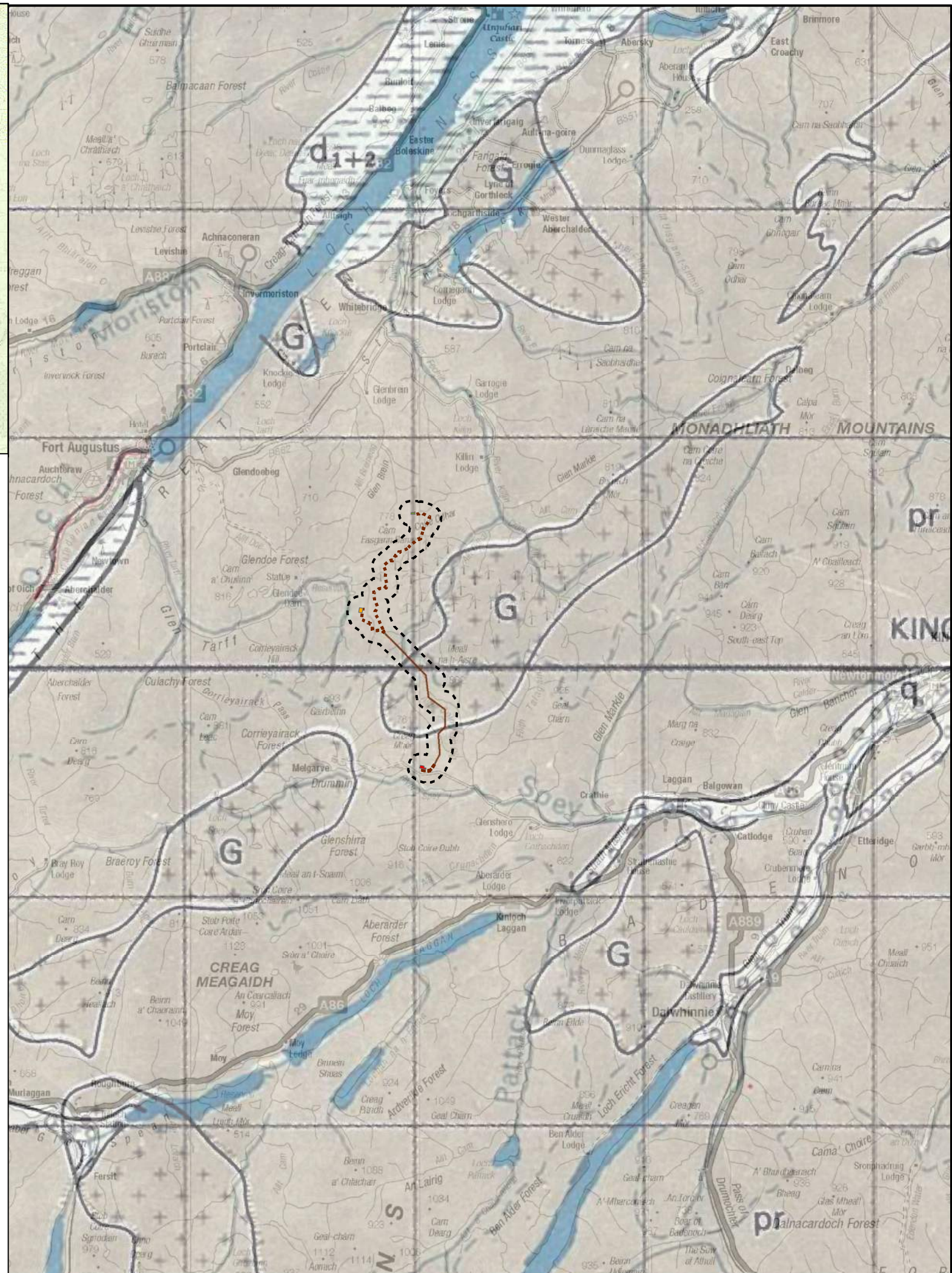


Scale - 1:150,000@ A3

INDEX AND EXPLANATION

1. Aquifers in which intergranular flow is significant		Surface water features	
	a. Highly productive aquifers (not extensive)		Perennial river or stream
	p Permian at Thornhill		Perennial river or stream in which the chloride ion concentration is known to exceed 1000 mg/l under low flow conditions
	d1 Upper Old Red Sandstone in Fife		Stream gauging station with mean annual runoff in m ³ /s, over catchment area in km ²
	d2 Upper Old Red Sandstone in Perth		Hydrometric area boundary
	b. Locally important aquifers		Freshwater loch, reservoir or standing water
	q Recent: Blown sand		Loch or standing water in which the chloride ion concentration is known to exceed 1000 mg/l
	q Quaternary sands and gravels	Groundwater features	
	p Permian in North West Grampian		Recognised mineral water spring or borehole with less than 1000 mg/l total dissolved solids.
2. Aquifers in which flow is dominantly in fissures and other discontinuities			Spa water spring or well with greater than 1000 mg/l total dissolved solids
	a. Highly productive aquifers (not extensive)		Areas where the chloride ion concentration exceeds 1000 mg/l above -80 m O.D.
	p Permian	Sources of known abstraction (licences are not required):	
	h1 Carboniferous: Dinantian and Namurian	a) 10-19 l/s } normal discharge	
	d1 Upper Old Red Sandstone	b) 20-29 l/s } or pumping yield	
	d2 Upper Old Red Sandstone	c) > 29 l/s }	
	b. Locally important aquifers		Springs
	t+p Triassic and Permian		Springs used for public supply
	h2 Carboniferous: Westphalian		Wells and boreholes
	d1+d2 Lower and Middle Old Red Sandstone		Sources of public supply
			Artesian boreholes
3. Concealed aquifers, aquifers of limited potential, regions without significant groundwater			Artesian boreholes used for public supply
	a. Concealed aquifers; aquifers with limited or local potential		River or loch intake for public supply with ≥ 10 MI/d capacity
	q Quaternary: coastal and river alluvium	Artificial works	
	j Jurassic		Impounding reservoir with design yield ≥ 10 MI/d (figures in MI/d)
	p Permian at Stranraer		Canal
	cb+pr Cambro-Ordovician and Precambrian Limestones		Hydroelectric station
	b. Regions underlain by impermeable rocks, generally without groundwater except at shallow depth	Geological symbols	
	s-o Silurian and Ordovician		Geological boundary
	pr Precambrian		Geological boundary beneath cover
	v Extrusive rocks		Fault
	g Intrusive rocks		Contours on the surface of the Old Red Sandstone in m relative to O.D.



Legend

500 m Study Area

Overhead Line (OHL) Works

Proposed Overhead Line (OHL)

Ancillary Development

Indicative Underground Cable (UGC) Alignment

Existing Infrastructure

Melgarve Substation

Proposed Wind Farm Infrastructure

Dell Substation

Consented Wind Farm Infrastructure

Cloiche Substation

Regional Hydrogeology

2C - Low Productivity Aquifer
- Aquifer in which fracture flow is virtually all through fractures and other discontinuities

Scale - 1:200,000 @ A3



Project: Melgarve Cluster Project: Environmental Impact Assessment

Title: Figure 10.6 - Regional Hydrology

Drawn by: FG 22/03/2024

Drawing: 04707.00029.0043.0