

INDEX AND EXPLANATION

1. Aquifers in which intergranular flow is significant

a. Highly productive aquifers (not extensive)	Permian at Thornhill
d ₃ Upper Old Red Sandstone in Fife	
b. Locally important aquifers	
q ^a Recent: Blown sand	
q ^b Quaternary sands and gravels	
p ^a Permian in North West Grampian	

2. Aquifers in which flow is dominantly in fissures and other discontinuities

a. Highly productive aquifers (not extensive)	
v ^a Permian	
v ^b Carboniferous: Dinantian and Namurian	
d ₂ Upper Old Red Sandstone	
b. Locally important aquifers	
r+p Triassic and Permian	
f ₁ Carboniferous: Westphalian	
q ₁₊₂ Lower and Middle Old Red Sandstone	

3. Concealed aquifers, aquifers of limited potential, regions without significant groundwater

a. Concealed aquifers; aquifers with limited or local potential	
d ^a Quaternary: coastal and river alluvium	
j Jurassic	
p ^b Permian at Stranraer	
z+p ^c Cambro-Ordovician and Precambrian Limestones	
b. Regions underlain by impermeable rocks, generally without groundwater except at shallow depth	
s-c Silurian and Ordovician	
pr Precambrian	
v Extrusive rocks	
i Intrusive rocks	

Surface water features

- Parential river or stream
- Perennial river or stream in which the chloride ion concentration is known to exceed 1000 mg/l under low flow conditions
- Stream gauging station with mean annual runoff in m³/s, over catchment area in km²
- Hydrometric area boundary
- Freshwater loch, reservoir or standing water
- Loch or standing water in which the chloride ion concentration is known to exceed 1000 mg/l

Groundwater features

- Recognised mineral water spring or borehole with less than 1000 mg/l total dissolved solids
- Spa water spring or well with greater than 1000 mg/l total dissolved solids
- Areas where the chloride ion concentration exceeds 1000 mg/l above -80 m O.D.

Sources of known abstraction (licences are not required):

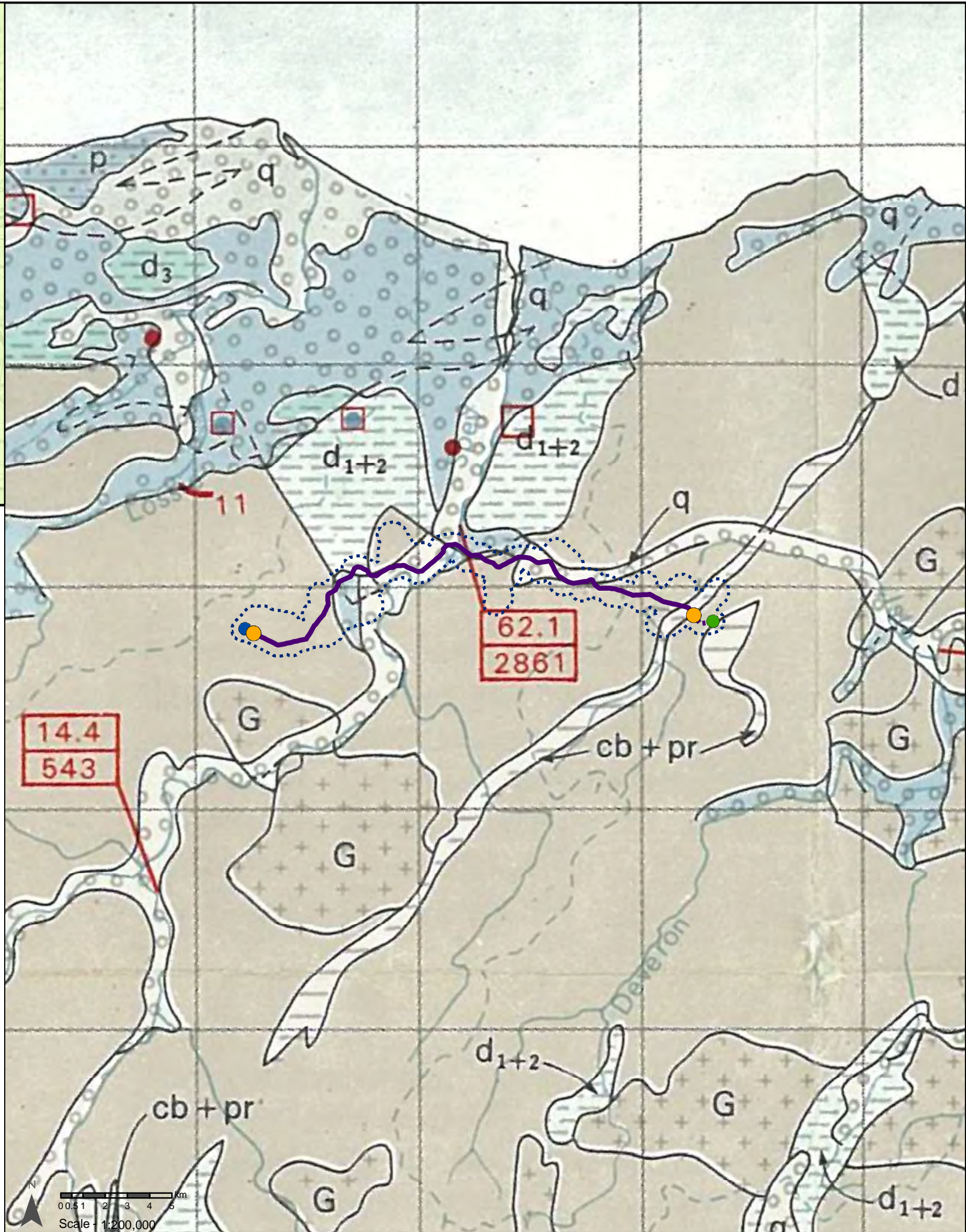
ai 10-19 l/s	normal discharge
bi 20-29 l/s	or pumping yield
ci > 29 l/s	

Artificial works

- Impounding reservoir with design yield ≥ 10 Ml/d (figures in Ml/d)
- Canal
- Hydroelectric station

Geological symbols

- Geological boundary
- Geological boundary beneath cover
- Fault
- Contours on the surface of the Old Red Sandstone in m relative to O.D.



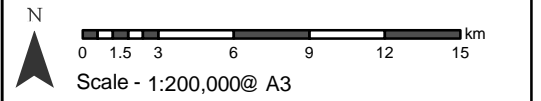
Legend

- Study Area 500 m Buffer
- Proposed Cable Sealing End (CSE)
- Consented Rothes III Wind Farm On-Site Substation
- Blackhillock Substation
- Proposed Overhead Line
- Proposed Underground Cable

Aquifer In Which Flow Is Virtually All Though Fractures And Other Discontinuities

- Moderately Productive Aquifer
- Low Productive Aquifer

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Project No:	LT122
Project:	Elchies (Rothes III) Wind Farm Grid Connection
Title:	Figure 7.10 - Regional Hydrogeology
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