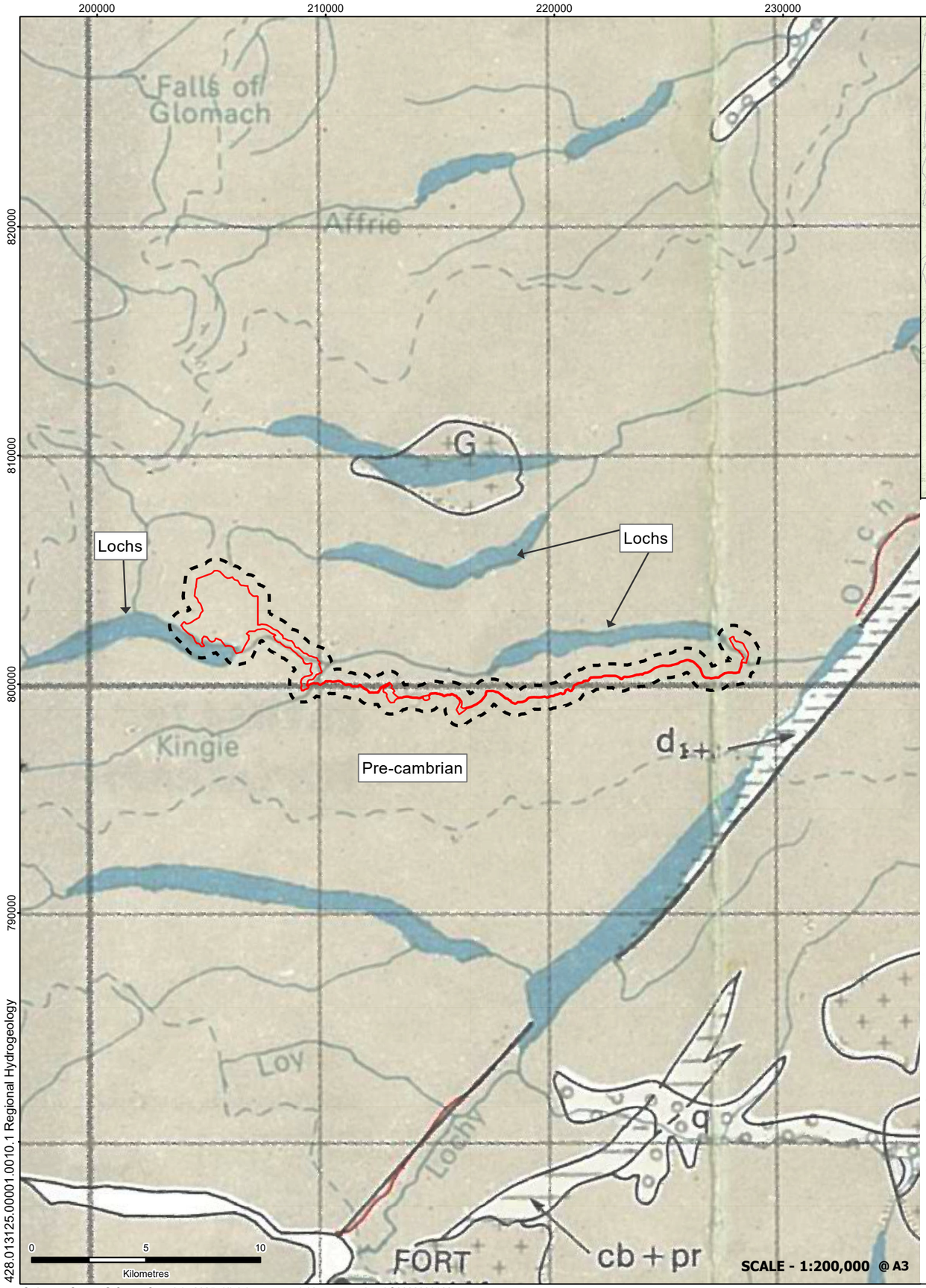

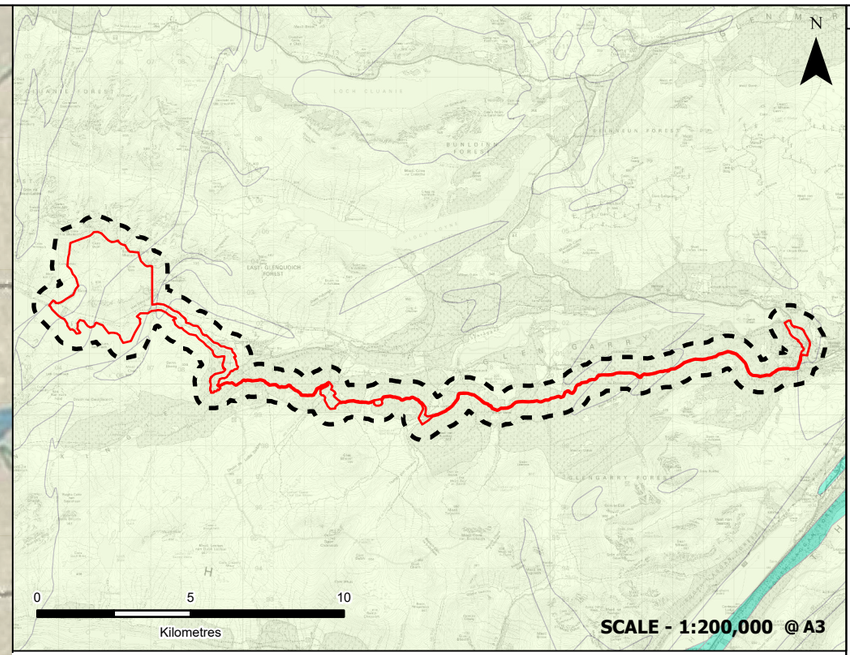

INDEX AND EXPLANATION

1. Aquifers in which intergranular flow is significant

a. Highly productive aquifers (not extensive)

- p — Permian at Thornhill
- d_1 — Upper Old Red Sandstone in Fife

b. Locally important aquifers

- q'e — Recent: Blown sand
- q' — Quaternary sands and gravels
- p — Permian in North West Grampian

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

a. Highly productive aquifers (not extensive)

- p — Permian
- h_1 — Carboniferous: Dinantian and Namurian
- d_1 — Upper Old Red Sandstone

b. Locally important aquifers

- t + p — Triassic and Permian
- h_2 — Carboniferous: Westphalian
- d_{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

- q_1 — Quaternary: coastal and river alluvium
- J — Jurassic
- p — Permian at Stranraer
- cb + pr — Cambro-Ordovician and Precambrian Limestones

b. Regions underlain by impermeable rocks, generally without groundwater except at shallow depth

- s + o — Silurian and Ordovician
- pr — Precambrian
- V — Extrusive rocks
- G — Intrusive rocks

Surface water features

- Perennial river or stream
- Perennial river or stream in which the chloride ion concentration is known to exceed 1000 mg/l under low flow conditions
- 2.3 / 844 — Stream gauging station with mean annual runoff in m^3/s, over catchment area in km^2
- 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):

a) 10-19 l/s
b) 20-29 l/s
c) > 29 l/s
} normal discharge or pumping yield

a) b) c)

- Springs
- Springs used for public supply
- Wells and boreholes
- Sources of public supply
- Artesian boreholes
- Artesian boreholes used for public supply
- River or loch intake for public supply with ≥ 10 Ml/d capacity

Artificial works

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

Geological symbols

- Geological boundary
- Geological boundary beneath cover
- Fault
- —1000— Contours on the surface of the Old Red Sandstone in m relative to O.D.

LEGEND

- Site Boundary
- Study Area (500 m Buffer)

Aquifer Classification

- Moderately productive aquifer
- Low Productivity Aquifer

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GEOLOGY, SOILS AND WATER

REGIONAL HYDROGEOLOGY

FIGURE 12.6

SCALE AS SHOWN

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