

RESOURCE POTENTIAL FOR LAND USE PLANNING

TOODYAY AREA

Rock types

- Sedimentary rocks of the Perth Basin
- Granitic rock
- Granite, gneiss, migmatite
- Schist, granofels
- Calc-silicate gneiss, mylonite
- Banded iron-formation, metamorphosed
- Quartzite
- Felsic volcanic rock, metamorphosed
- Mafic volcanic rock, metamorphosed
- Altered mafic intrusive to volcanic rock, metamorphosed
- Mafic to ultramafic rock, metamorphosed

Mineral potential

- Low for gold, high for dimension stone
- Unknown
- High for industrial minerals (sillimanite, kyanite, graphite)
- High for base and other metals (copper, zinc, and lead)
- High for iron ore
- High for construction materials (crushed rock) and building stone
- High for gold and base metals
- Very high for gold
- Very high for gold
- Very high for platinum group metals and steel industry metals

Regional planning implications

- NII
- NII
- NII
- NII
- NII
- NII
- Zoning only rural; lot size >40 ha
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Overlying weathered materials (widespread but not shown on map)

- Laterite; widespread on hills
- Alluvial and eolian sand; in valleys

Resource

- Very high for bauxite, gold, and ironstone gravel
- Very high for construction sands
- Gold (Au), platinum-group metals (PGE)
- Vanadium (V), molybdenum (Mo)
- Heavy mineral sands (zircon and titanium minerals)
- Iron ore
- Bauxite
- Ilmenite (Ilm), glauconite (Glt), kyanite (Ky), sillimanite (Sil), silica sand (Sisd), kaolin (Kln), mica, talc
- Unspecified unless indicated; rock, sand, gravel, clay (Cy), quartzite as dimension stone (Qtze)

Regional planning implications

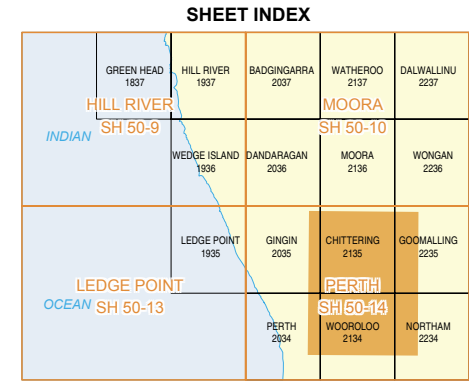
- Recommend only rural zoning within 0.5 km; lot size >40 ha
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Mineral occurrences, deposits, and mines by groups

- Precious metal
- Steel industry metal
- Specialty metal
- Iron
- Alumina
- Industrial mineral
- Construction material

(Note, may not include mines authorized by Shires)

- Geological boundary
- Major road / Highway
- Minor road
- Railway
- Localities
- Town of Northam
- Shire boundary
- Watercourse
- Waterbody
- Bauxite tenement (Mining Lease 1SA)



DATA DIRECTORY			
Theme	Data Source	Data Currency	Agency
Geology	GSWA Report 65, Plate 1	JUN 2001	Dept of Industry and Resources
	GSWA Record 2001/12	JUN 2001	Dept of Industry and Resources
Mineral occurrences (non - confidential)	MINDEX	DEC 2003	Dept of Industry and Resources
	WAMIN	OCT 2003	Dept of Industry and Resources
Cadastral	TENGGRAPH	2003	Dept of Industry and Resources
Topographic nomenclature	GEONOMA	2001	Dept of Land Information
Topography		2001	Dept of Land Information

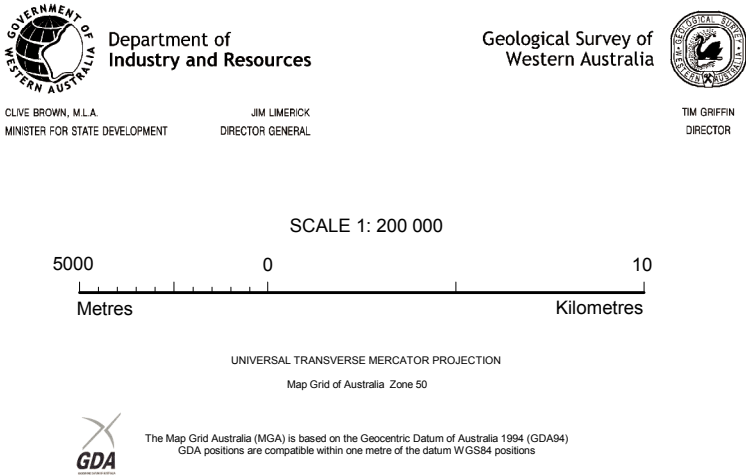
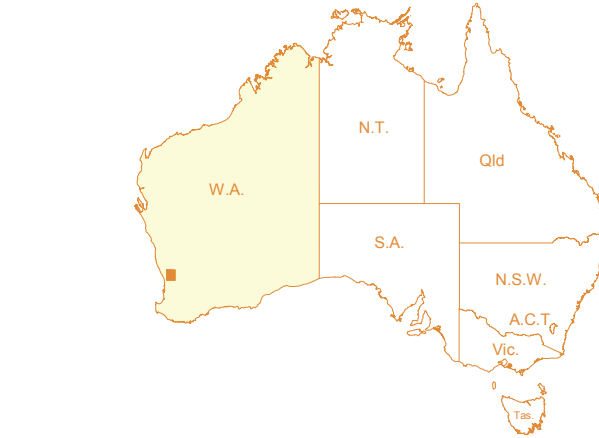
Note: MINDEX database can be viewed at www.doir.wa.gov.au

Compiled by M. J. Freeman

Cartography by G. Hartley

The recommended reference for this map is:
FREEMAN, M. J., 2004, Toodyay area, Resource potential for land use planning (scale 1:200 000); Western Australia Geological Survey.

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SCALE 1: 200 000
5000 0 10
Metres Kilometres

UNIVERSAL TRANSVERSE MERCATOR PROJECTION
Map Grid of Australia, Zone 50
The Map Grid of Australia (MGA) is based on the Geocentric Datum of Australia 1984 (GDA84).
GDA positions are compatible within one metre of the datum 1958 positions.

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