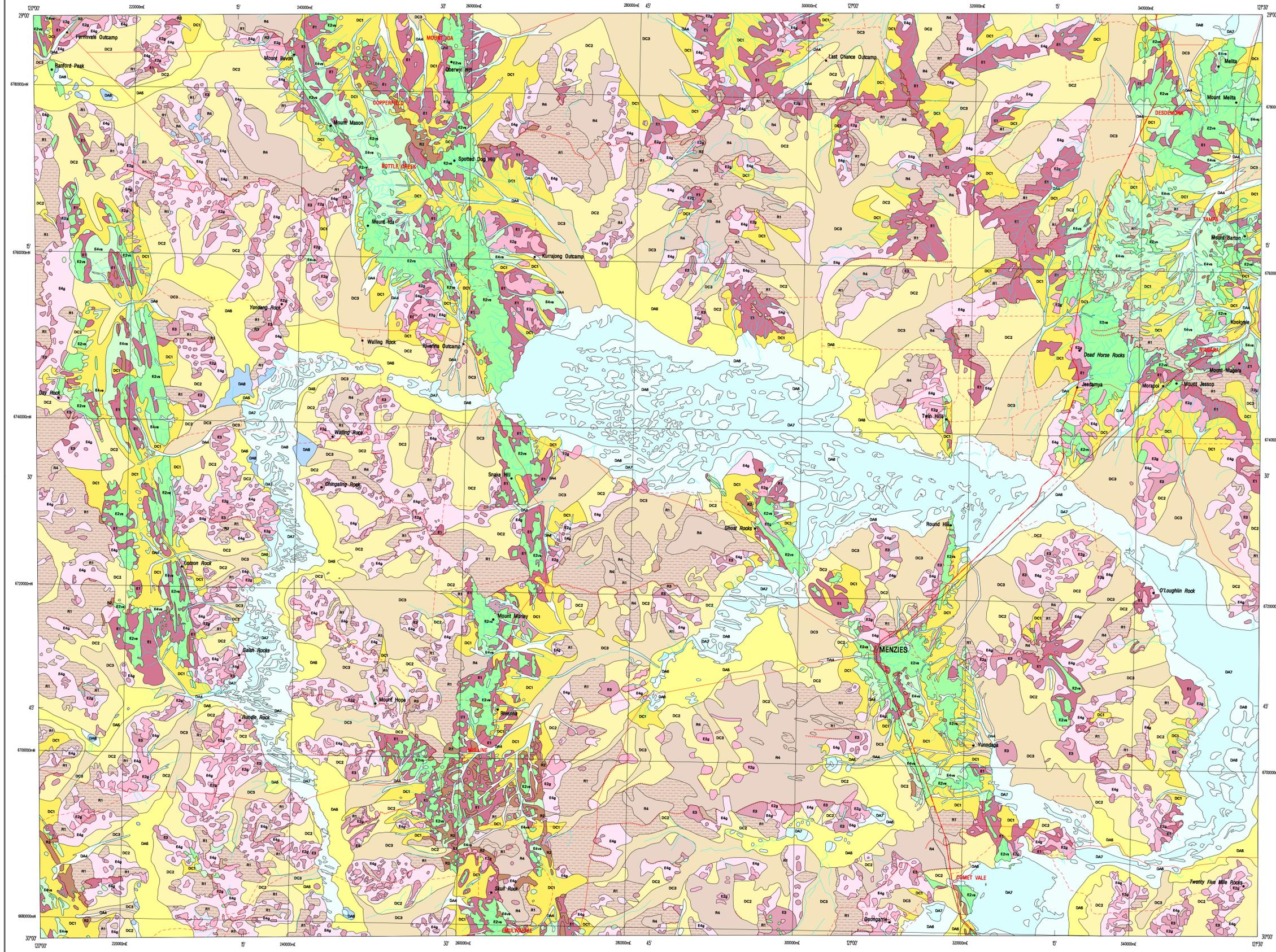


# MENZIES

GEOLOGICAL SURVEY OF WESTERN AUSTRALIA

1:250 000 REGOLITH MATERIALS SERIES

SHEET SH 51-5



### REFERENCE

RELICT REGIME	CSIRO (1)	CSIRO (2)	ASRS
R1 Laticite pliothite and nodules with sand	LT1	R2	M040
R2 Iron-rich laticite duricrust	LT2	R1	D542
R3 Siliceous and silicified granitoid rock	-	-	D660
R4 Sands overlying presumed or known laticite material	ES3	L54	D6

### EROSIONAL REGIME

E1 Exposed mottled zone and saprolite	SP1	E3	WR11
E2a Granitoid and granitoid gneiss saprock, bedrock, and ferruginous bedrock	BR3	ES-E3ac	gWR12
E2b Volcano-sedimentary greenstone saprock, bedrock, and ferruginous bedrock	BR3	ES-E3bc	vWR12
E3 Residual sands and sandy clays developed over eroding mottled zone, saprolite, and bedrock	SS1	ES	-
E4g Lag of thin detrital siltstone and/or siltstone in a sandy matrix associated with actively eroding outcrop; mainly confined to granitoid terranes	SS5	-	gWR11
E4w Lag of locally derived ferruginous and laticite detritus in a sandy clay matrix associated with actively eroding outcrop; mainly confined to greenstone terranes	M1-M5bc	L41	E1

### DEPOSITIONAL REGIME

DOMINANTLY COLLUVIAL			
DC1 Medium to coarse detritus, mainly of laticite or ferruginous laticite clasts (most <25 mm) in colluvium with a sand or sandy clay matrix	MS	CS3	D4
DC2 Fine to medium detritus of 2 types: ferruginous laticite clasts (most 4-25 mm) in colluvium with a sandy clay matrix (greenstone terranes); quartz, feldspar and granitoid clasts in sandy colluvium (granitoid terranes)	MS	CS1	D2
DC3 Predominantly non-laticite ferruginous detritus (most clasts <10 mm), some saproscopic, in a red sandy clay matrix; in shallowish areas; clasts may be absent	M2, CS1	AS3	D4
DOMINANTLY ALLUVIAL			
DA1 Gravely sands and sandy clays of active alluvial channels with mixtures of laticite, non-laticite and variably siliceous laticite clasts	AS1	AS2	D1
DA5 Sand or clay-rich alluvium on or adjacent to broad drainage floors with negligible detritus; calcareous nodules common	AS4	D6	SA02
DA6 Oolitic siliceous and calcareous sediments adjacent to playa lakes; usually vegetated	AS5	D7	SB00
DA7 Saline sands and sandy clays of playa lakes; usually unvegetated	ES1	ES2	D6
DA8 Extensive and continuous calcareous outcrop in broad drainage floors (valley calcans)	-	-	D820

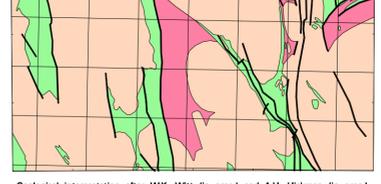
CSIRO (1) north code: R.N. Auld et al., 1983  
 CSIRO (2) north code: M.A. Craig and R.N. Auld, 1989  
 ASRS north code: G. Peck et al., 1991

### SYMBOLS

- Regolith boundary
- Principal road
- Minor road
- Track
- Railway
- Townsite
- Homestead
- Breakaway
- Watercourse, ephemeral
- Mining locality

### GEOLOGICAL INTERPRETATION

- Granitoid rock
- Granitoid gneiss and strongly sheared granitoid rock; minor amphibolite
- Volcano-sedimentary greenstone belt
- Major fault



Geological interpretation after W.K. Witt (in prep.) and A.H. Hickman (in prep.)

### INDEX TO ADJOINING SHEETS

YOUMAMI SH 50-4	LEONORA SH 51-1	LAVERTON SH 51-2
BARLEE SH 50-8	MENZIES SH 51-5	EDJINDINA SH 51-6
JACKSON SH 50-12	KALGOORLIE SH 51-9	KURNALPI SH 51-10



## REGOLITH MATERIALS SERIES

# MENZIES

SHEET SH 51-5 PRELIMINARY EDITION 1994

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DEPARTMENT OF MINERALS AND ENERGY  
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 MINISTER FOR MINES  
 K.A. PERRY, DIRECTOR GENERAL

SCALE 1:250 000



TRANSVERSE MERCATOR PROJECTION  
 Grid lines indicate 20 000 metre interval of the Australian Map Grid Zone 51



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 DIRECTOR, GEOLOGICAL SURVEY OF WESTERN AUSTRALIA

Compiled by C.J. Kojan 1994  
 Field observations by: C.J. Kojan (GSWA), and J. Bradley, D. Ellis, B. McGraw, and G. Mahr (Geochemex)  
 The recommended reference for this map is: Kojan, C.J., 1994. Menzies, W.A. (prelim. ed.): Western Australia Geological Survey, 1:250 000 Regolith Materials Series  
 This map complements Menzies Regolith-landforms map: Churchward, H.M., and Crisp, M.A., 1993. Menzies, W.A. (prelim. ed.): Australian Geological Survey Organisation, 1:250 000 Regolith-landforms Series

WARNING: Inks are water soluble and will fade with prolonged exposure to light