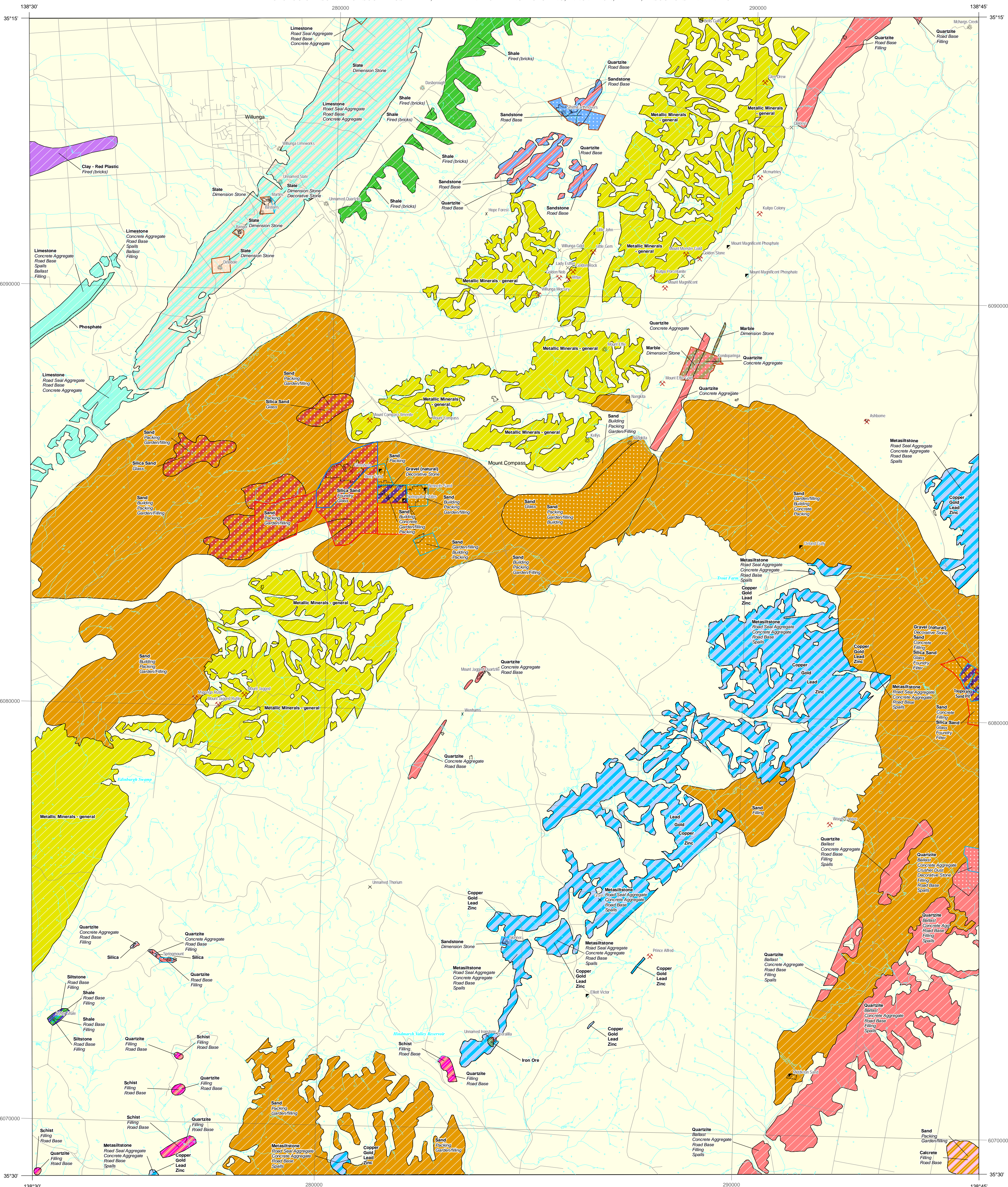


# WILLUNGA

## MINERAL RESOURCE POTENTIAL

GEOLOGICAL SURVEY OF SOUTH AUSTRALIA, DEPARTMENT FOR MANUFACTURING, INNOVATION, TRADE, RESOURCES AND ENERGY



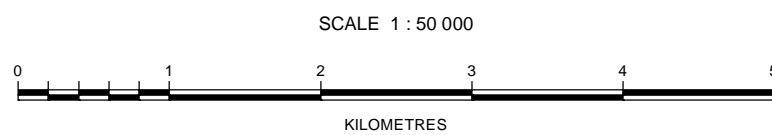
GRID LINES ARE 10 000 METRE INTERVALS OF THE MAP GRID OF AUSTRALIA 1994

### LOCALITY



### INDEX TO ADJOINING SHEETS

	ADELAIDE	ONKAPARRINGA	TERKO	MANILU
	MOARLUNGA	EHCHUNGA	MONWARTO	MOBILONG
Yankalilla 6527	Milang 6627	Mobilong 6727		
YANKALLA	MILANG	ALEXANDRIA	WELLINGTON	
CAPE JERVIS	TORRENS VALLEY	ENCOUNTER	COOLMA	NARRUNG
Jervis 6526	Encounter 6626	Meningie 6726		
WILLOUGHBY	THE PAGES		MAGRATH FLAT	



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2014

Compiled by J. Talbot, M. Davies & R.S. Robertson (DMITRE Geological Survey of South Australia).

Incorporating information from Johnson (1994) - Non Metallic Resources Series Maps and geological mapping from SA Geology database.

Topographic detail based on information supplied by  
SA Department of Environment and Natural Resources.  
The relationship between this data and DMITRE data is not guaranteed.  
A product of PIRSA Spatial Information Services.

January 09, 2014

**DISCLAIMER**  
This mapping product is designed to assist land use planning and is **not suitable for use in mineral resource investment decisions**. Many areas categorised as having mineral resource potential do not have sufficient drilling or other information to define resources or reserves to mineral industry (JORC) standards. The mineral resource potential information is largely interpretative in nature and is based on information available at the time of compilation. New information or further interpretation of existing information may significantly change the assessments of mineral resource potential shown on this map.

*"The Joint Ore Reserves Committee of the Australian Institute of Mining and Metallurgy, Australian Institute of Geoscientists and Minerals Council of Australia. The JORC Code is the Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves"*

**CURRENCY OF INFORMATION**  
Mineral tenement locations and mineral resource potential information may have changed since production of this map on 9 January 2014.

Current tenement information is available online through the DMITRE SARIG site at [www.sarig.pir.sa.gov.au](http://www.sarig.pir.sa.gov.au)

### TOPOGRAPHIC FEATURES

- Highway
- Secondary Road
- Minor Road
- Railway
- Coastline (Mean High Water Mark)
- Watercourse; River; Channel
- Lake; Reservoir; Dam
- Quarry

### REFERENCE

#### MINERAL RESOURCE POTENTIAL

South Australian Mineral Resource Potential Mapping translates geological mapping, current productive mineral tenement locations and a range of other resource information into a 3 level categorisation of resource potential and suggested planning response as below.

#### CATEGORY 1 - HIGH MINERAL POTENTIAL & for Current Operation

Full planning protection required from incompatible development. Important mineral resource area. Current mining operation, current mineral tenement, Extractive Industry Zone, known economically viable mineral resource/reserve established by drilling, trenching etc. or high potential for resource/reserve although full investigation to resource/reserve status not yet undertaken.

#### CATEGORY 2 - MEDIUM MINERAL POTENTIAL

Mineral Potential should be considered in planning. Further consultation or investigation before incompatible development allowed. Moderate to good geological potential for significant resources known from preliminary geological studies but investigation required to establish resource and economic viability.

#### CATEGORY 3 - LOW MINERAL POTENTIAL

No specific planning protection required. No or very minor known mineral resource potential based on current information. May include some sources of construction material eg fill or other low specification material for local use from pits operated by councils.

Changes in mineral resource market requirements, in geological knowledge and information and in exploration techniques may significantly alter the mineral potential categories applicable to areas. The latter two factors are particularly relevant to the potential for metallic minerals.

South Australian Mineral Resource Potential Mapping is discussed further in MESA Journal 59 : 13-15.

### MINERAL RESOURCE POTENTIAL - COMMODITIES

- Category 1 - Gravel (natural)
- Category 1 - Siltstone
- Category 1 - Sandstone
- Category 1 - Limestone
- Category 1 - Shale
- Category 1 - Sand
- Category 1 - Quartzite
- Category 1 - Slate
- Category 1 - Silica Sand
- Category 1 - Marble
- Category 1 - Lead
- Category 2 - Clay
- Category 2 - Slate
- Category 2 - Shale
- Category 2 - Copper
- Category 2 - Gold
- Category 2 - Phosphate
- Category 2 - Siltstone
- Category 2 - Metasilstone
- Category 2 - Metallic Minerals - general
- Category 2 - Sand
- Category 2 - Zinc
- Category 2 - Sandstone
- Category 2 - Marble
- Category 2 - Limestone
- Category 2 - Quartzite
- Category 2 - Iron Ore
- Category 2 - Calcrete
- Category 2 - Silica
- Category 2 - Schist
- Category 3
- Overlapping - Cat 1 Marble/Quartzite
- Overlapping - Cat 1 Sand/Silica Sand
- Overlapping - Cat 1 Sand/Gravel (natural)
- Overlapping - Cat 1 Shale/Siltstone
- Overlapping - Cat 2 Quartzite/Silica
- Overlapping - Cat 2 Quartzite/Schist
- Overlapping - Cat 2 Sandstone/Quartzite
- Overlapping - Cat 2 Shale/Siltstone
- Overlapping - Cat 2 Limestone/Slate
- Overlapping - Cat 2 Sand/Calcrete
- Category 1 - More than 2 Commodities
- Category 2 - More than 2 Commodities

### MINERAL PRODUCTION TENEMENTS - ACTIVE

- Extractive Minerals Lease
- Mineral Claim
- Mineral Lease
- Private Mine
- MINES AND OCCURRENCES (MinDep)
- Diggings
- Mine
- Occurrence
- Pit
- Prospect
- Quarry
- Quarry
- LABELS
- Metasilstone
- Commodity
- Dimension Stone
- Uses
- Roadside Quarry
- Major Resource Area

