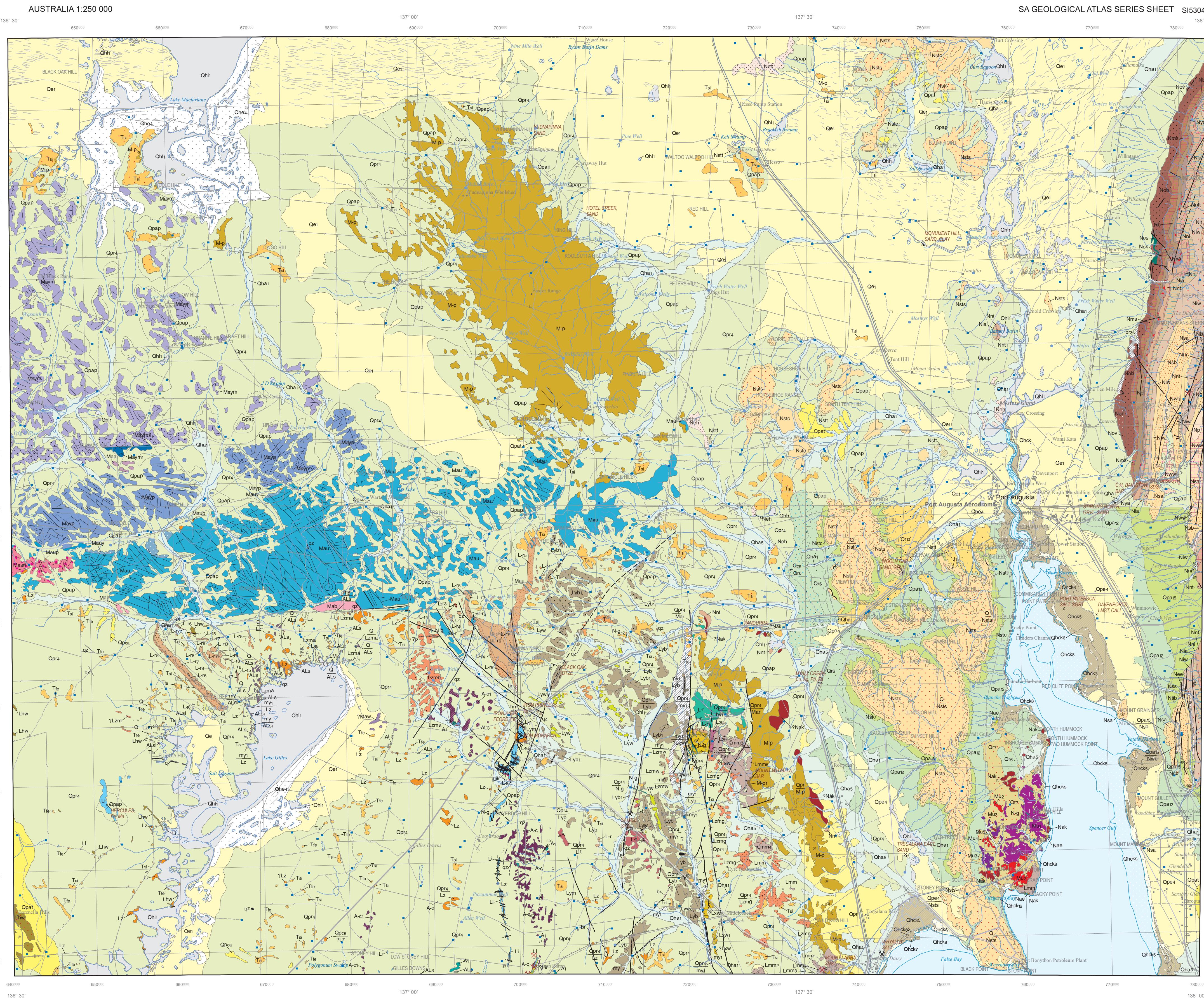
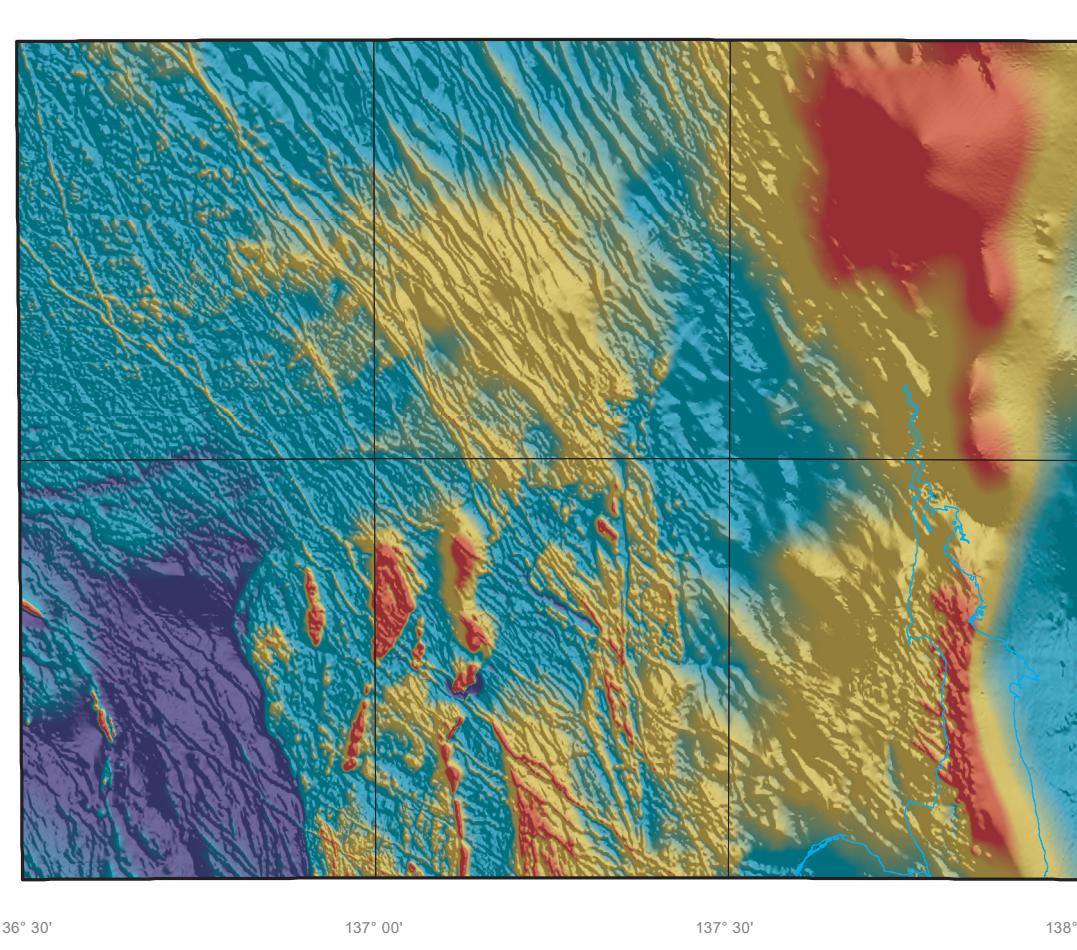


# PORT AUGUSTA

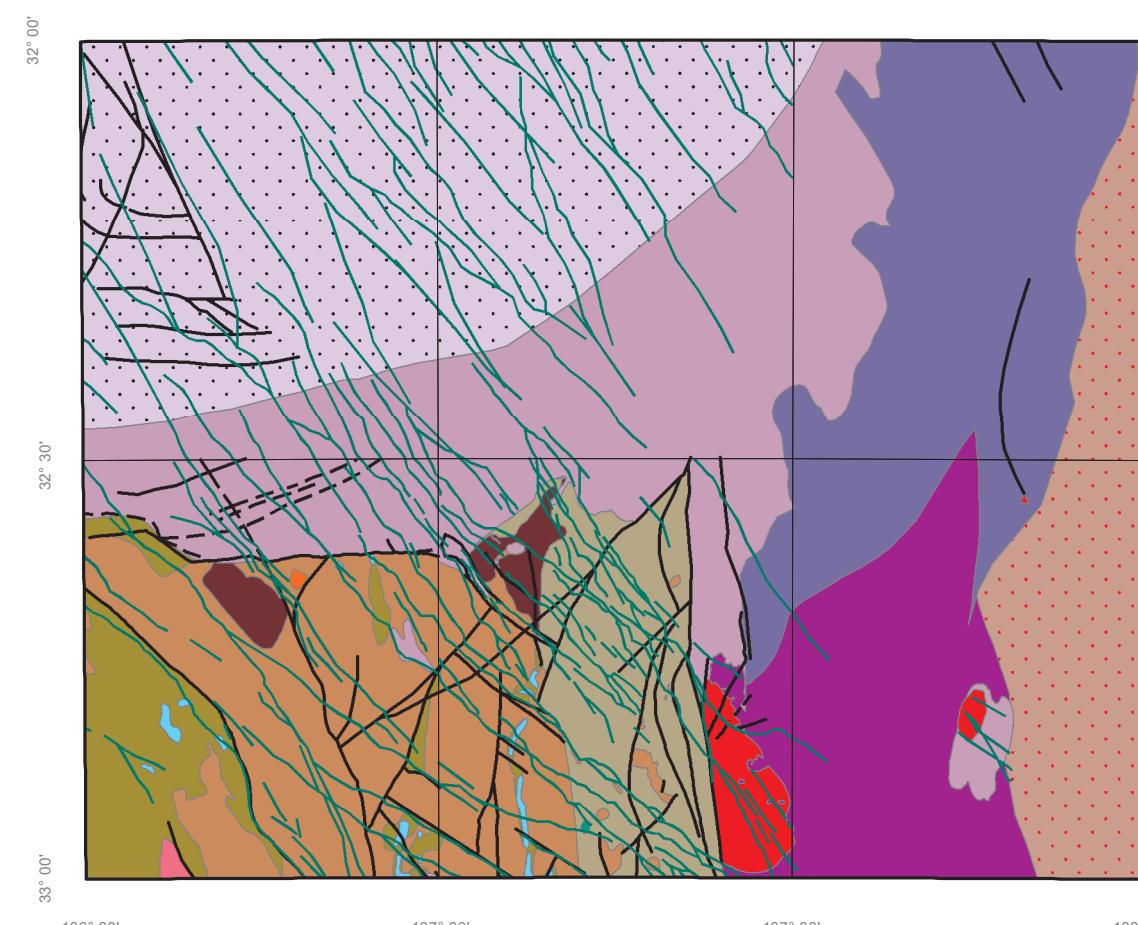
GEOLOGICAL SURVEY OF SOUTH AUSTRALIA  
DEPARTMENT FOR ENERGY AND MINING



TOTAL MAGNETIC INTENSITY IMAGE



SOLID GEOLGY INTERPRETATION



SCALE 1:250,000

KILOMETRES 5 0 5 10 15 20 25 25 KILOMETRES

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Topographic detail based on TOPO-25K GEODETA (source scale 1:250 000)  
supplied by Geoscience Australia - National Mapping Division, ACT.  
The relationship between the two maps is not guaranteed.

Computer generated from SA GEOLOGY database  
(Digital data available upon request)

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Gray numbered lines indicate 1000 metre Map Grid

Scale 1:250 000  
Magnetic Declination 2000

The lake boundaries displayed on this map may have been derived from geological interpretation

and may not match lakes interpreted by topographic mapping authorities.

All northings are represented on this particular map.

Mapping and Compilation: S.O. Mawson, B.Sc. (Hons), C.R. Dalgarno, M.Sc., with contributions from S.R. Allen, Ph.D., C.J. Simpson, Ph.D., J. McPhee, Ph.D., S.J. Daly, B.Sc. (Hons), C.E. Wade, B.Sc. (Hons), and W.A. Cowley, B.Sc. (Hons)

R.C. Cobcroft, Director, Geological Survey of South Australia.

Geological boundaries displayed on this map have been determined by geological interpretation and are not intended to be used for navigational purposes.

Copies of this map can be obtained from the

Department for Energy and Mining SA, Adelaide.

2007

The Total Magnetic Intensity Image has been compiled using

aeromagnetic data from the

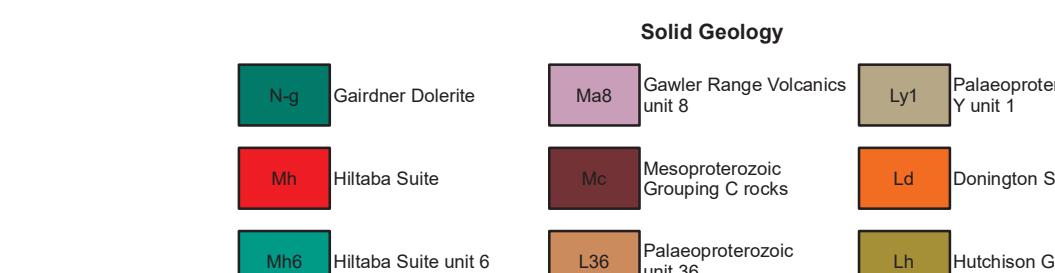
Department for Energy and Mining, South Australia. The aeromagnetic data used in this map were processed by the Geological Survey of South Australia.

A two standard deviation contrast stretch has been applied to the raster image above.

-350.772 9873.625

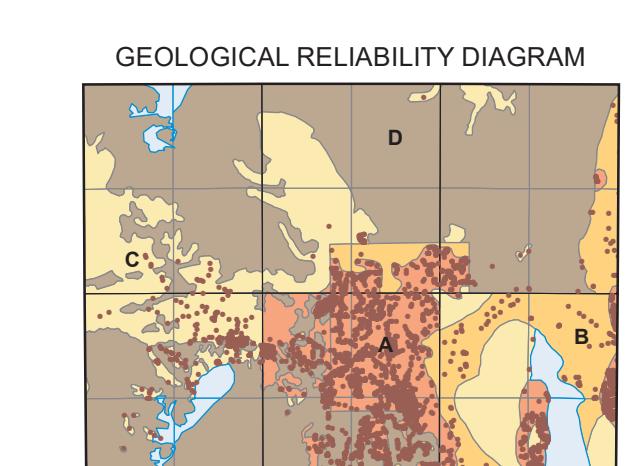
617.731 69.136

756.004



Solid Geology - Linear Structure

Fault position accurate ———  
Fault position approximate - - -



Port Augusta sheet published 1989,  
2007 edition. Sheet 1:250 000  
Geological Field Observations

A: Detailed ground traverses  
B: Image interpretation with limited ground traverses  
C: Image interpretation with potentially some minor ground traverses  
D: Image interpretation only

DIGITAL EDITION  
SUBJECT TO AMENDMENT  
See published printed map for further information

SCALE 1:200000

## REFERENCE

<b>HOLOCENE</b>	<b>Nat</b> SIMMENS QUARTZITE MEMBER: Quartzite, blocky; sandstone, cream.
	<b>Nat</b> BRACH FORMATION: Siltstone, shale, red-brown and dove-grey, with scattered sandstone and thin interbedding with sandstone, fine-grained, occasionally coarse-grained. All lithologies calcareous.
	<b>Nat</b> HOLOCENE ALLUVIAL/FLUVAL UNIT 5: Holocene alluvium sediments.
	<b>Nat</b> HOLOCENE ALLUVIAL/FLUVAL UNIT 7: Holocene talus slope deposits, high angle colour to aluvial sediments.
	<b>Nat</b> SAIN TILDA FORMATION: Coastal marine sediment, sand and gravel, with interbedded organic, gypseous clay flats, beaches and tidal marshes; organic, gypseous clay of associated flats.
	<b>Nat</b> SAIN TILDA FORMATION UNIT 5: Supradelta sand mud sand of intertidal flats.
	<b>Nat</b> SAIN TILDA FORMATION UNIT 7: Organogenic mud of mangrove flats.
	<b>Nat</b> SAIN TILDA FORMATION UNIT 8: Shelly muddy sand of intertidal flats, bare rock, shells and pebbles, rounded to sub-angular.
	<b>Nat</b> SEMAPHORE SAND MEMBER: Unconsolidated white sand, interbedded with carbonaceous sand of modern beaches and dunes/lakes.
	<b>Nat</b> HOLOCENE ADELIA UNIT 4: Holocene pyritous dolines/lakes.
	<b>Nat</b> HOLOCENE LACUSTRINE/PLAYA UNIT 1: Holocene playas/dunes/lakes.
	<b>Nat</b> PLEISTOCENE-HOLOCENE
	<b>Q</b> QUATERNARY ROCKS: Undifferentiated Quaternary rocks.
	<b>Q</b> QUATERNARY ADELIA SEDIMENTS: Undifferentiated Quaternary sediments.
	<b>Q</b> QUATERNARY ADELIA UNIT 1: Quaternary dunefield sand.
	<b>Q</b> QUATERNARY REGOLITH/COLUVIUM UNIT 6: Clay, silt and sand, as sheetwash on sand plains.
	<b>Q</b> QUATERNARY REGOLITH/COLUVIUM UNIT 7: Clay, silt and sand, as sheetwash on weathered basement rock to weathered basement and, locally, stone.
	<b>Q</b> QUATERNARY REGOLITH/COLUVIUM UNIT 10: Sand, as talus flats with superficial, densely weathered surface, with sparse vegetation and (incipient) tiger-patterns in intervening areas.
	<b>Q</b> QUATERNARY CALCRETE: Undifferentiated Quaternary calcrite.
	<b>Q</b> PLEISTOCENE ALLUVIAL/FLUVAL UNIT 10: Pleistocene sand and gravel of river and angle alluvial fans.
	<b>Q</b> PLEISTOCENE ALLUVIAL/FLUVAL UNIT 15: Pleistocene sand and gravel of high angle alluvial fans.
	<b>Q</b> PODRAKA FORMATION: Clay, sand and carbonate earth, silty, with gravelly lenses. Includes old fan deposits.
	<b>Q</b> TELFORD GRAVEL: Polymict gravel, well rounded, includes boulders, fine to very fine.
	<b>Q</b> PLEISTOCENE ADELIA UNIT 4: Pleistocene coastal plain sand.
	<b>Q</b> PLEISTOCENE REGOLITH/COLUVIUM UNIT 6: Undifferentiated Pleistocene colluvium-regolith sediments.
	<b>Q</b> PLEISTOCENE REGOLITH/COLUVIUM UNIT 1: Basal red-edge molten conglomerate. PORT AUGUSTA (PORT AUGUSTA)
	<b>Q</b> PLEISTOCENE REGOLITH/COLUVIUM UNIT 4: Undifferentiated Pleistocene colluvium-regolith with thin bedded, angular/radular calcrete.
	<b>Q</b> PLEISTOCENE CALCRETE: Undifferentiated Pleistocene calcrite.
	<b>T</b> TERTIARY ROCKS: Undifferentiated Tertiary rocks.
	<b>T</b> TERTIARY FERRICRUST: Undifferentiated Tertiary ferricrust.
	<b>T</b> TERTIARY SILCRET: Undifferentiated Tertiary silcrete.
	<b>J</b> JURASSIC UNIT 1: Lamprophyric intrusives, including kimberlite.
	<b>N</b> NEOPROTEROZOIC
	<b>N</b> POUND SUBGROUP: Sandstone, quartzite, minor limestone.
	<b>N</b> WOKWA FORMATION: Shale, grey, calcareous; fayalite, brownish, limestone and silt.
	<b>N</b> BUNYERO FORMATION: Shale, grey to grey-green, pink calcareous; pyrophyllite, grey, green, lenses, dolomite, pyrophyllite, pyrope, corundum, fayalite.
	<b>N</b> ABC-1 QUARTZITE: Quartz, slightly foliated, fine-grained, massive, with interbedded dolomite, dolomitic dolomite, fayalite, brownish, heavy mineral laminae, fayalite, pyrophyllite, corundum, fayalite.
	<b>N</b> SIMMENS QUARTZITE MEMBER: Quartzite, light grey to yellowish, massive, with interbedded dolomite, dolomitic dolomite, fayalite, brownish, heavy mineral laminae, Bedding rarely visible.
	<b>N</b> BROADVIEW SCHIST: Schist, thin-bedded, fine-grained, slaty to phyllitic fine-grained quartzite.
	<b>N</b> BROADVIEW SCHIST UNIT 1: Quartzite, laminated, interbedded with dolomite, dolomitic dolomite, fayalite, brownish, heavy mineral laminae, Bedding rarely visible.
	<b>N</b> BROADVIEW SCHIST UNIT 2: Quartzite, laminated, interbedded with dolomite, dolomitic dolomite, fayalite, brownish, heavy mineral laminae, Bedding rarely visible.
	<b>N</b> BROADVIEW SCHIST UNIT 3: Quartzite, laminated, interbedded with dolomite, dolomitic dolomite, fayalite, brownish, heavy mineral laminae, Bedding rarely visible.
	<b>N</b> BROADVIEW SCHIST UNIT 4: Quartzite, laminated, interbedded with dolomite, dolomitic dolomite, fayalite, brownish, heavy mineral laminae, Bedding rarely visible.
	<b>N</b> BROADVIEW SCHIST UNIT 5: Anecozoid dolostone, dolomite, dolomitic dolomite, dolomitic dolomite, fayalite, brownish, heavy mineral laminae, Bedding rarely visible.
	<b>N</b> BROADVIEW SCHIST UNIT 6: Sandstone, fine-medium, feldspathic, dolomitic dolomite, dolomitic dolomite, fayalite, brownish, heavy mineral laminae, Bedding rarely visible.
	<b>N</b> BROADVIEW SCHIST UNIT 7: Volcaniclastic grit.
	<b>N</b> BROADVIEW SCHIST UNIT 8: Metasedimentary, very coarse to poorly lithic.
	<b>N</b> BROADVIEW SCHIST UNIT 9: Metasedimentary, very coarse to poorly lithic.
	<b>N</b> BROADVIEW SCHIST UNIT 10: Metasedimentary, medium to very coarse.
	<b>N</b> BROADVIEW SCHIST UNIT 11: Metasedimentary, medium to very coarse.
	<b>N</b> BROADVIEW SCHIST UNIT 12: Metasedimentary, medium to very coarse.
	<b>N</b> BROADVIEW SCHIST UNIT 13: Metasedimentary, medium to very coarse.
	<b>N</b> BROADVIEW SCHIST UNIT 14: Metasedimentary, medium to very coarse.
	<b>N</b> BROADVIEW SCHIST UNIT 15: Metasedimentary, medium to very coarse.
	<b>N</b> BROADVIEW SCHIST UNIT 16: Metasedimentary, medium to very coarse.
	<b>N</b> BROADVIEW SCHIST UNIT 17: Metasedimentary, medium to very coarse.
	<b>N</b> BROADVIEW SCHIST UNIT 18: Metasedimentary, medium to very coarse.
	<b>N</b> BROADVIEW SCHIST UNIT 19: Metasedimentary, medium to very coarse.
	<b>N</b> BROADVIEW SCHIST UNIT 20: Metasedimentary, medium to very coarse.
	<b>N</b> BROADVIEW SCHIST UNIT 21: Metasedimentary, medium to very coarse.
	<b>N</b> BROADVIEW SCHIST UNIT 22: Metasedimentary, medium to very coarse.
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	<b>N</b> BROADVIEW SCHIST UNIT 85: Metasedimentary, medium to very coarse.
	<b>N</b> BROADVIEW SCHIST UNIT 86: Metasedimentary, medium to very coarse.
	<b>N</b> BROADVIEW SCHIST UNIT 87: Metasedimentary, medium