

# H2-Hub Gladstone

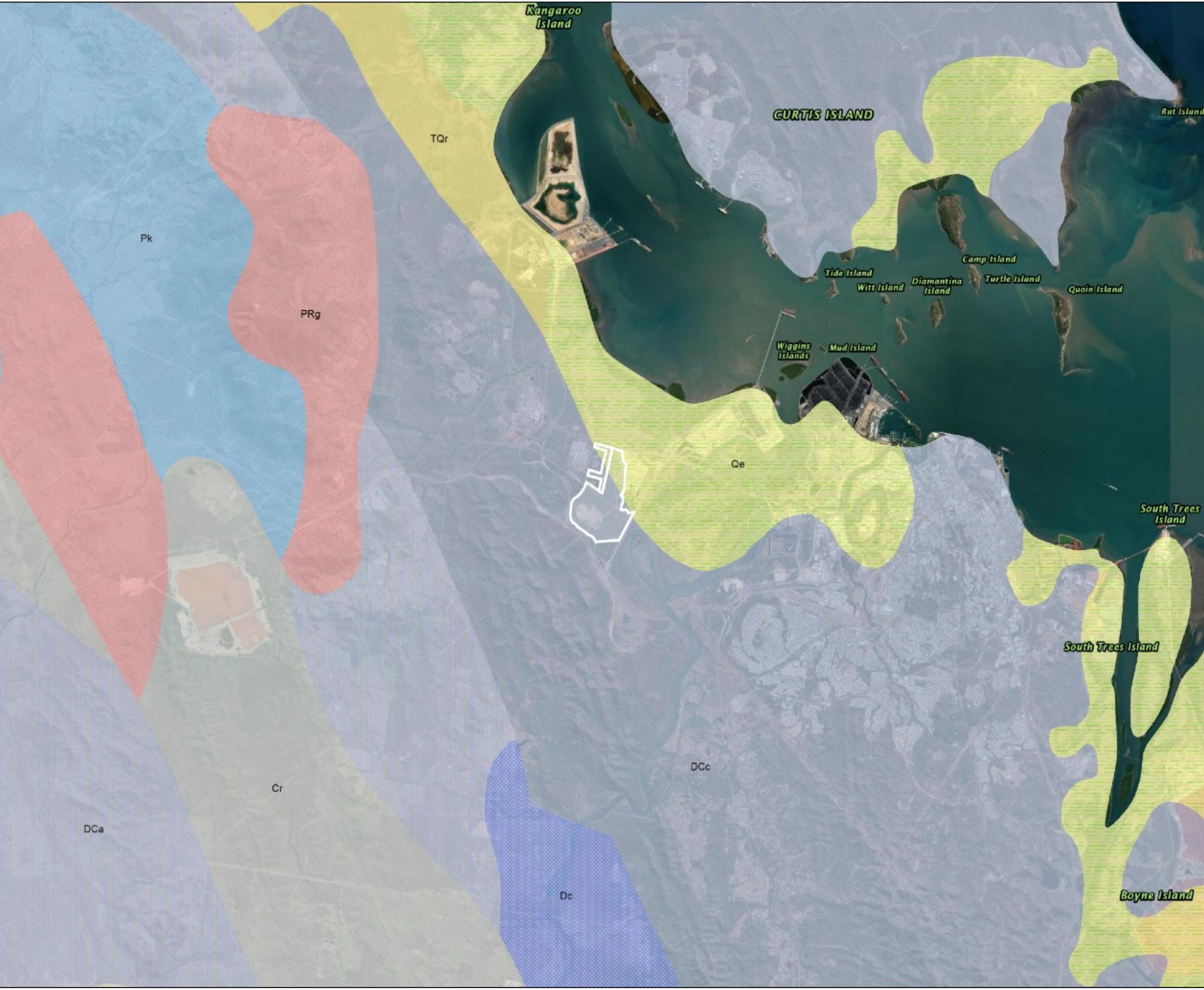
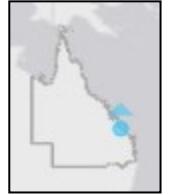
State Surface Geology (1:100,000)

23°44'21"S 151°11'18"E

A product of



Queensland Globe



Legend located on next page



0 2.5 km

Scale: 1:100000

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Datum: Geocentric Datum of Australia 1994

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Queensland  
Government

Department of Natural Resources, Mines and Energy

23°57'4"S 151°11'18"E

23°44'21"S 151°19'18"E

# H2-Hub Gladstone

State Surface Geology (1:100,000)

## Legend

### State Surface Geology

- Quaternary alluvium and lacustrine deposits (Qa)
- Qe-QLD (Qe)
- Qd-QLD (Qd)
- Quaternary basalts, N Queensland (Qbn)
- Quaternary basalts, S Queensland (Qbs)
- Tertiary-Quaternary basalts, N Queensland (TQbn)
- TQr-QLD (TQr)
- Pliocene-Pleistocene sediments (TQ)
- Miocene-Pliocene sediments (Tu)
- Ts-QLD (Ts)
- Oligocene-Miocene sediments (Tm)
- Td-QLD (Td)
- Tertiary volcanics; some plugs (Tv)
- Lamington Group (Tvl)
- Paleocene-Oligocene sediments (Tl)
- Tertiary intrusives (Ti)
- Alton Downs Basalt, unnamed basalt (Kva)

### State Surface Geology (cont)

- Mount Salmon Volcanics, Mount Cooper Trachyte (Kvs)
- Proserpine Volcanics, Whitsunday Volcanics, unnamed volcanic units (Kv)
- Rolling Downs Group (Kr)
- Winton Formation (Kw)
- Mackunda Formation (Kk)
- Normanton Formation (Kn)
- Allaru Mudstone (Ka)
- Toolebuc Formation (Ko)
- Griman Creek Formation (Kg)
- Wallumbilla Formation (Ku)
- Polland Waterhole Shale (Kp)
- Stanwell Formation (Ks)
- Styx Coal Measures (Kx)
- Burrum Coal Measures (Kb)
- Maryborough Formation (Km)
- Cretaceous intrusives - central Queensland (Kgc)
- Cretaceous intrusives - SE Queensland (Kgs)
- Grahams Creek Formation (JKr)

### State Surface Geology (cont)

- Bungil Formation, Gubberamunda Sandstone, Hooray Sandstone, Kumbarilla beds, Longsight Sandstone, Mooga Sandstone, Orallo Formation, Southlands Formation (JKb)
- Gilbert River Formation (JKg)
- Lees Sandstone, Mullaman beds, unnamed sedimentary units (JKm)
- Albany Pass beds, Helby beds (JKh)
- Ronlow beds (JKw)
- Bauple Province intrusives (JKi)
- Garraway Sandstone (Jw)
- Blantyre Sandstone, Eulo Queen Group (Ju)
- Dalrymple Sandstone (Jd)
- Injune Creek Group, Mulgildie Coal Measures, Walloon Subgroup (Ji)
- Hutton Sandstone, Evergreen Formation, Precipice Sandstone (Jb)

### State Surface Geology (cont)

- Bundamba Group (including Marburg Subgroup and Woogaroo Subgroup), Landsborough Sandstone (RJb)
- Duckinwillia Group (RJd)
- Middle to Late Triassic volcanic and some sedimentary units, SE Queensland (Rvs)
- Early to Middle Triassic volcanic and some sedimentary units, SE Queensland (Rvm)
- Moolayember Formation (Rm)
- Pepper Pot Sandstone (Rp)
- Tarong beds (Ro)
- Ipswich Coal Measures (Ri)
- Warang Sandstone (Rw)
- Clematis Group (Re)
- Dunda beds (Rd)
- Rewan Group (Rr)
- Brooweena Formation, Keefton Formation, Kin Kin beds, Traveston Formation (Rb)
- Triassic intrusives in SE and central Queensland (Rg)
- Rawbelle Batholith - Triassic plutonic rocks (Rgr)
- Gloucester Granite (Rggc)

Earthstar Geographics

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## Attribution

# H2-Hub Gladstone

Legend

## State Surface Geology (cont)

- New England Batholith - Triassic plutonic rocks (Rgn)
- Permian-Triassic intrusives in SE Queensland (PRg)
- Rawbelle Batholith - Late Permian-Early Triassic plutonic rocks (PRgr)
- Belthorpe Andesite, Brookfield Volcanics, Gilla Volcanics, unnamed volcanics (PRv)
- Kennedy Province - Permian volcanic rocks (Pvk)
- Betts Creek beds (Pe)
- Blackwater Group (Pw)
- Mount Mulligan Coal Measures (Pum)
- Calen Coal Measures (Pa)
- Dinner Creek Conglomerate (Pd)
- Back Creek Group (Pb)
- Cressbrook Creek Group (Ps)
- Marumba beds, Northbrook beds, Cedarton Volcanics, Camboon beds, Kandanga Creek Megabreccia (Pn)
- Gympie Group (Py)
- Wandsworth Volcanic Group (Pvw)

## State Surface Geology (cont)

- Wildash Group (Ph)
- Alum Rock Conglomerate, Bondonga beds, Pikedale beds, Silver Spur beds, Terrica beds (Par)
- Airlie Volcanics (Pvl)
- Narayen beds, Nogo beds, Smoky beds, Yaparaba Volcanics (Pvy)
- Owl Gully Volcanics, Inverness Volcanics, unnamed volcanic units (Pvo)
- Rookwood Volcanics (Pvr)
- Berserker Group, Double Mountain Volcanics, Peninsula Range Volcanics (Pk)
- Yarrol Formation (Pr)
- Carmila beds (Pc)
- Woolein Formation (Pl)
- Lizzie Creek Volcanic Group, Mount Wickham Rhyolite (Pvz)
- Late Permian intrusives in central and SE Queensland (Pgl)
- New England Batholith - Permian plutonic rocks (Pgn)
- Kennedy Province - Permian intrusive rocks (Pgk)
- Eidsvold Complex (Pgei)

## State Surface Geology (cont)

- Connors Subprovince - Early Permian intrusives (Pgc)
- Rawbelle Batholith - Early Permian plutonic rocks (Pgr)
- Connors Subprovince - Carboniferous-Cretaceous intrusives (CKgc)
- Youlambie Conglomerate, Glenprairie beds, Wongrabry beds (CPy)
- Lorry Formation (CPI)
- Camboon Volcanics (CPvc)
- Torsdale Volcanics (CPvt)
- Joe Joe Group (CPj)
- Late Carboniferous-Early Permian sedimentary units, N Queensland (CPs)
- Obree Point Volcanics (CPvr)
- Bulgonunna Volcanic Group (CPvb)
- Kennedy Province - Carboniferous-Permian volcanic rocks (CPvk)
- Connors Volcanic Group (CPvo)
- Mount Cross Igneous Complex (CPm)

## State Surface Geology (cont)

- Connors Subprovince - Late Carboniferous-Early Permian intrusives (CPgc)
- Kennedy Province - Carboniferous-Permian intrusive rocks (CPgk)
- Glen Eva Complex (CPgge)
- Auburn Subprovince - Carboniferous to Early Permian granitoids (CPga)
- Good Night beds (Co)
- Mount Barney beds, Alice Creek beds (Cy)
- Bulliwallah Formation, Ducabrook Formation, Mount Rankin Formation, Natal Formation, Star of Hope Formation (Cd/3)
- Mount Hall Formation, Raymond Sandstone, Scartwater Formation, Telemon Formation (Cd/2)
- Kennedy Province - Carboniferous volcanic rocks (Cvk)
- Glenrock Group (Cn)
- Clarke River Group (Cc)
- Rockhampton Group (Cr)
- Texas beds (Ctx)
- Connors Subprovince - Late Carboniferous intrusives (Cgc)

## State Surface Geology (cont)

-  D'Aguilar Subprovince - Carboniferous plutonic rocks (Cgd)
-  Chahpingah Meta-igneous Complex (Cgy)
-  Kennedy Province - Carboniferous intrusive rocks (Cgk)
-  Withersfield Quartz Syenite (Cgw)
-  Auburn Subprovince - Early Carboniferous granitoids (Cga)
-  Burwood Complex (Cgbu)
-  D'Aguilar Subprovince - metamorphic rocks (Cdm)
-  Curtis Island Group (DCC)
-  Bunya Phyllite, Nieranleigh-Fernvale beds (DCn)
-  Bjelke Petersen beds, Fifer Creek Metamorphics, Maronghi Creek beds, Sugarloaf Metamorphics, Mountefontein Metamorphics, unnamed sedimentary units (DCym)
-  Broome Head Metamorphics, Sabina Point Schist, The Shacks Mylonite, Townshend Formation (DCcm)

## State Surface Geology (cont)

-  Inkerman Metamorphics, Key Creek Gneiss, Mount Cavana beds (DCi)
-  Yerilla Metamorphics (DCy)
-  Bundoock Creek Group (DCb)
-  Gilberton Formation (DCt)
-  Bimurra Volcanics, Foyle Volcanics, Mount Wyatt Formation, Saint Anns Formation, Silver Hills Volcanics, Stones Creek Volcanics (DCd/1)
-  Greybank Volcanics (Dvy)
-  Campwyn Volcanics, Edgecumbe beds (DCw)
-  Mount Alma Formation, Balaclava Formation, Lochenbar Formation, Mount Hoopbound Formation, Tanderra Volcanics, Channer Creek beds, Three Moon Conglomerate (DCa)
-  Keelbottom Group (DCK)
-  Mount Mia Serpentinite (DCs)
-  Karin Granite (DCgk)
-  Mount Formartine Granite, unnamed plutonic units (DCg)
-  Mount Morgan Trondhjemite, Pomegranate Tonalite, unnamed plutonic units (Dgm)

## State Surface Geology (cont)

-  Currawinya Granite, Eulo Granite (Dge)
-  Retreat Supersuite (Dgr)
-  Collopy Formation (Dy)
-  Dotswood Group (Dd)
-  Hodgkinson Formation (Dh)
-  Ukalunda Formation, Douglas Creek Limestone, Dunstable Volcanics, Sedgeford Formation, Theresa Creek Volcanics, unnamed sedimentary and volcanic units (Da)
-  Shield Creek Formation, Blue Rock Creek beds, Conjurboy Formation, Broken River Group (Db)
-  Fanning River Group (Df)
-  Wilkie Gray Group (Dw)
-  Capella Creek Group, Erebus beds, Marble Waterhole beds, Craigilee beds, Calliope beds, Munbooree beds, Dunollie beds, Pumpkin Hut Mudstone, unnamed sedimentary and volcanic units (Dc)
-  Cravens Peak beds (Dn)
-  Silverwood Group (SDs)
-  Graveyard Creek Group (SDr)
-  Chillagoe Formation (SDc)

## State Surface Geology (cont)

-  Camel Creek Silurian-Devonian Succession - Greenvale Formation, Perry Creek Formation, Kangaroo Hills Formation (SDb)
-  Pama Province - Early Devonian plutonic rocks (Dg)
-  Pama Province - Silurian-Early Devonian plutonic rocks (SDg)
-  Pama Province - Silurian plutonic rocks (Sg)
-  Camel Creek Ordovician Succession - Wairuna Formation, Pelican Range Formation, Tribute Hills Arenite, Carriers Well Formation, Everett's Creek Volcanics (OSb)
-  Macrossan Province - Ordovician-Silurian plutonic rocks (OSgm)
-  Gem Park Granite (OSgg)
-  Mountain Creek Conglomerate, Quadroy Conglomerate, Van Dyke Litharenite, Mulgrave Formation (Om)
-  Fork Lagoons beds (Of)
-  Judea Formation (Oj)

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## State Surface Geology (cont)

- Toko Group, Kelly Creek Formation, Coolibah Formation (Ot)
- Lucky Creek Metamorphic Group (Ol)
- Ordovician plutonic rocks, mainly Mossman Province (Ogm)
- Moorammin Granite (Ogo)
- Netherwood Tonalite, Saddington Tonalite (Ogr)
- Macrossan Province - Cambrian-Ordovician plutonic rocks (EOgm)
- Balcooma Metavolcanic Group (EOb)
- Seventy Mile Range Group, Kirk River beds, Les Jumelles beds (EOs)
- Cockroach Group (EOc)
- Barkly Group (Eb)
- Narpa Group (En)
- Shadow Group (Es)
- Marlborough Metamorphics (Pzm/m)
- Black Stump Arkose, Gnallan-a-gea Arkose, Little Burke Tillite, Sun Hill Arkose, Yardida Tillite (PLEg)
- Sefton Metamorphics (PLEs)

## State Surface Geology (cont)

- Barnard Metamorphics, Babalangee Amphibolite, Cowley Ophiolite Complex (PLOb)
- Argentine Metamorphics, Running River Metamorphics, Charters Towers Metamorphics (PLEr)
- Cape River Metamorphics (PLEc)
- Halls Reward Metamorphics (PLEh)
- Oasis Metamorphics (PLEo)
- Anakie Metamorphic Group (PLEa)
- Colless Volcanics (PLEvc)
- Boiler Gully Complex, Gray Creek Complex, unnamed mafics and ultramafics (PLEX)
- Unassigned ultramafic rocks (PLPzum)
- Princhester Serpentinite (PLPzsp)
- Mount Fort Bowen Sandstone (PLzf)
- Inorunie Group (PLzi)
- Quamby Conglomerate (PLq)
- Edward River Metamorphic Group (PLce)

## State Surface Geology (cont)

- Holroyd Metamorphic Group (PLch)
- Coen Metamorphic Group (PLcc)
- South Nicholson Group (PLsn)
- Croydon Volcanic Group (PLvc)
- Langlovale Group (PLi)
- Williams Supersuite (PLgi)
- Esmeralda Supersuite (PLge)
- Etheridge Province - plutonic rocks (PLgf)
- Yambo Metamorphic Group (PLyy)
- Newberry Metamorphic Group (PLcn)
- Dargalong Metamorphics (PLdd)
- Upper Etheridge Group (PLEu)
- Robertson River Subgroup, Juntala Metamorphics, Cassidy Creek Metamorphics, McDevitt Metamorphics (PLer)
- Bernecker Creek Formation (PLEb)
- Einasleigh Metamorphics (PLEe)
- Milo beds (PLm)
- Fickling Group (PLf)
- McNamara Group (PLmn)
- Mount Isa Group (PLi)

## State Surface Geology (cont)

- Kuridala Group (PLu)
- Soldiers Cap Group (PLo)
- Pilpah Formation, Saint-Smith Formation, Bularnu Formation (PLp)
- Mount Albert Group (PLa)
- Surprise Creek Formation (PLr)
- Bigie Formation, Fiery Creek Volcanics (PLf)
- Peters Creek Volcanics (PLvp)
- Staveley Formation, Roxmere Quartzite (PLs)
- Ballara Quartzite, Corella Formation (PLk)
- Overhang Jaspilite (PLj)
- Marraba Volcanics, Mitakoodi Quartzite (PLn)
- Double Crossing Metamorphics (PLdc)
- Quilalar Formation (PLq)
- Bulonga Volcanics (PLvb)
- Haslingden Group (PLh)
- Boomarra Metamorphics (PLb)
- Argylla Formation, Magna Lynn Metabasalt (PLva)
- Bottletree Formation (PLt)
- Kamarga Volcanics (PLvk)

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Legend

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## State Surface Geology (cont)

 Oroopo Metabasalt, Bucket Hole Metavolcanics,  
Alpha Centauri Metamorphics, Kallala Quartzite (pre-  
Haslingden Group?) (PLvo)

 Tawallah Group (PLw)

 Cliffdale Volcanics (PLvf)

 Kurbaya Metamorphic Complex (PLlk)

 Leichhardt Volcanics (PLvl)

 Yaringa Metamorphics, Saint Ronans Metamorphics,  
Sulieman Gneiss and other pre-Barramundi Orogeny

Basement (PLx)

 do-MI (do)

 Tommy Creek Microgranite (PLgt)

 Sybella Suite (PLgs)

 Weberra Granite (PLgb)

 Wonga Suite, Burstall Suite, Gin Creek Granite (PLgw)

 Arunta Block granitoids (PLx/g)

 Yeldham Granite (PLgy)

 Nicholson Suite (PLgn)

 Kalkadoon Supersuite (PLgk)

 Water body (W)