

Geodetic On-Line Access (GOLA)

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Mark Details

(GOLA last updated on 17-Sep-2018)



SSM AUSTRALIND 46

Alternate names :

APREF/NGCA codes:

Stamp name: AUS46

Physical status : **located (Thompson Surveying)**

Physical type : brass plaque

Mark set in : concrete

Map ref.: AUSTRALIND BG30 2.8

Database number : 13848882

Date established : 03/08/2009

Phys. status date : 15/09/2016

Hatch cover type : concrete

Access type : 2 wheel drive

Geographical Coordinates

Horizontal datum : **GDA2020**

Latitude : **S 33 17 23.28400**

Longitude : **E 115 44 20.85067**

MGA2020 Coordinates

Zone : 50

Easting (m) : 382597.102

Northing (m) : 6315875.820

Convergence : -0 41 31.71

Point scale factor : 0.99976994

Coordinate date : 13/09/2018

Horizontal method : GNSS Survey Network

Cadastral connection : Exists

Relative horiz. accuracy : 40ppm *** Estimated relative uncertainty to adjacent marks*

Positional uncertainty (m) : 0.016 (95% Confidence level)

Error Ellipse

Semi-major axis (m) : 0.016

Semi-minor axis (m) : 0.016

Azimuth of semi-major axis (m) : 19 34 13

*** Projection coordinates are calculated from the geographical coordinates detailed above*

Project Grid - COL2020

Mark's height is outside project grid's vertical limits

Collie Grid 2020

Easting (m) : 21909.833

Northing (m) : 415024.133

Convergence : -0 6 23.75

Point scale factor : 1.00002303

Project Grid - PCG2020

Perth Coastal Grid 2020

Easting (m) : 42777.288

Northing (m) : 215111.755

Convergence : -0 2 33.22

Point scale factor : 0.99999970

Height Information

Vertical datum : **AHD71**

Height type : **Orthometric**

Height (m) : **12.469**
Established by : Landgate
Vertical method : Spirit Levelling
Derived GDA2020 ellipsoidal height (m) : -19.491

Height date : 08/09/2009
State : Final
Vertical accuracy : 12rootK
N-Value (m) : -31.96
Geoid model : AusGeoid2020
Interpolation : Bi-Cubic

** *Derived GDA2020 ellipsoidal height: $h = H + N$*

Vertical datum : **GDA2020**
Height (m) : **-19.468**
Established by : Geoscience Australia
Vertical method : GNSS Survey Network

Height type : **Ellipsoidal**
Height date : 15/08/2018
State : Final
Vertical accuracy : 0.026m

Mark to hatch cover : **0.153**
Mark to ground level :

RM Info ** *Warning: RM azimuths and coordinates are unverified*
 ** *Azimuth, distance and height difference are relative to main mark*

RM1 Phys. status : located (Thompson Surveying) Date : 03/05/2015
 Phys. type : spike Set in : concrete
 Azimuth : 39 23 5 Type : True azimuth
 Distance (m) : 1.980 Type : Horizontal
 Height diff. (m) : -0.120 Type : Spirit Levelling
 RM to GL (m) : 0.300

RM2 Phys. status : located (Thompson Surveying) Date : 03/05/2015
 Phys. type : spike Set in : concrete
 Azimuth : 149 43 5 Type : True azimuth
 Distance (m) : 2.085 Type : Horizontal
 Height diff. (m) : -0.097 Type : Spirit Levelling
 RM to GL (m) : 0.300

RM3 Phys. status : **destroyed (Thompson Surveying)** Date : 15/09/2016
 Phys. type : deck spike Set in : bitumen
 Azimuth : 274 39 35 Type : True azimuth
 Distance (m) : 1.320 Type : Horizontal
 Height diff. (m) : -0.005 Type : Spirit Levelling
 RM to GL (m) : 0.000

RM Position Information ** *Warning: RM coordinates should be verified prior to use*
 ** *Coordinates are calculated from reference observations*
 ** *Coordinate accuracies commensurate with related observations*

RM1

Geographical Coordinates
Horizontal datum : **GDA2020**
Latitude : **S 33 17 23.23433**
Longitude : **E 115 44 20.89923**

MGA2020 Coordinates
Zone : 50
Easting (m) : 382598.340
Northing (m) : 6315877.365

Project Grid - COL2020
Mark's height is outside project grid's vertical limits

Collie Grid 2020
Easting (m) : 21911.086
Northing (m) : 415025.665

Project Grid - PCG2020

Perth Coastal Grid 2020

Easting (m) : 42778.543
Northing (m) : 215113.286

Height Information

Vertical datum : **AHD71**
Height (m) : **12.349**

RM2

Geographical Coordinates

Horizontal datum : **GDA2020**
Latitude : **S 33 17 23.34244**
Longitude : **E 115 44 20.89130**

MGA2020 Coordinates

Zone : 50
Easting (m) : 382598.175
Northing (m) : 6315874.032

Project Grid - COL2020

Mark's height is outside project grid's vertical limits

Collie Grid 2020

Easting (m) : 21910.888
Northing (m) : 415022.334

Project Grid - PCG2020

Perth Coastal Grid 2020

Easting (m) : 42778.341
Northing (m) : 215109.955

Height Information

Vertical datum : **AHD71**
Height (m) : **12.372**

RM3

Geographical Coordinates

Horizontal datum : **GDA2020**
Latitude : **S 33 17 23.28052**
Longitude : **E 115 44 20.79982**

MGA2020 Coordinates

Zone : 50
Easting (m) : 382595.786
Northing (m) : 6315875.911

Project Grid - COL2020

Mark's height is outside project grid's vertical limits

Collie Grid 2020

Easting (m) : 21908.517
Northing (m) : 415024.237

Project Grid - PCG2020

Perth Coastal Grid 2020

Easting (m) : 42775.972
Northing (m) : 215111.861

Height Information

Vertical datum : **AHD71**
Height (m) : **12.464**

Cadastral Connection Fieldbooks

LG 124694

Special Notes

No Special Notes for this mark

ITRF 2014

GDA2020 coordinates are equivalent to ITRF2014@2020.0. ITRF2014 coordinates can be determined by application of a plate model transformation. For general and technical information on GDA2020 see <http://www.icsm.gov.au/what-we-do/geocentric-datum-australia>



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Map ref.: AUSTRALIND BG30 2.8

Database number : 13848882

Date established : 03/08/2009

Phys. status date : 15/09/2016

Hatch cover type : concrete

Access type : 2 wheel drive

Geographical Coordinates

Horizontal datum : **GDA94**

Latitude : **S 33 17 23.33241**

Longitude : **E 115 44 20.81094**

MGA94 Coordinates

Zone : 50

Easting (m) : 382596.093

Northing (m) : 6315874.316

Convergence : -0 41 31.73

Point scale factor : 0.99976994

Coordinate date : 10/09/2009

Horizontal method : Global Position System

Cadastral connection : Exists

Relative horiz. accuracy : 20ppm *** Estimated relative uncertainty to adjacent marks*

Positional uncertainty (m) : 0.012 (95% Confidence level)

Error Ellipse

Semi-major axis (m) : 0.012

Semi-minor axis (m) : 0.011

Azimuth of semi-major axis (m) : 170 0 0

*** Projection coordinates are calculated from the geographical coordinates detailed above*

Project Grid - PCG94

Perth Coastal Grid 1994

Easting (m) : 42776.261

Northing (m) : 115110.263

Convergence : -0 2 33.24

Point scale factor : 0.99999970

Project Grid - COL94

Mark's height is outside project grid's vertical limits

Collie Grid 1994

Easting (m) : 21908.808

Northing (m) : 315022.639

Convergence : -0 6 23.77

Point scale factor : 1.00002303

Height Information

Vertical datum : **AHD71**

Height (m) : **12.469**

Established by : Landgate

Vertical method : Spirit Levelling

Derived GDA94 ellipsoidal height (m) : -19.429

Height type : **Orthometric**

Height date : 08/09/2009

State : Final

Vertical accuracy : 12rootK

N-Value (m) : -31.898

Geoid model : AUSGeoid09 V1.01

Interpolation : Bi-Cubic

*** Derived GDA94 ellipsoidal height: $h = H + N$*

Vertical datum : **GDA2020**

Height (m) : **-19.468**

Established by : Geoscience Australia

Vertical method : GNSS Survey Network

Height type : **Ellipsoidal**

Height date : 15/08/2018

State : Final

Vertical accuracy : 0.026m

Mark to hatch cover : **0.153**

Mark to ground level :

RM Info *** Warning: RM azimuths and coordinates are unverified*
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Distance (m) : 1.980 Type : Horizontal
Height diff. (m) : -0.120 Type : Spirit Levelling
RM to GL (m) : 0.300

RM2 Phys. status : located (Thompson Surveying) Date : 03/05/2015
Phys. type : spike Set in : concrete
Azimuth : 149 43 5 Type : True azimuth
Distance (m) : 2.085 Type : Horizontal
Height diff. (m) : -0.097 Type : Spirit Levelling
RM to GL (m) : 0.300

RM3 Phys. status : **destroyed (Thompson Surveying)** Date : 15/09/2016
Phys. type : deck spike Set in : bitumen
Azimuth : 274 39 35 Type : True azimuth
Distance (m) : 1.320 Type : Horizontal
Height diff. (m) : -0.005 Type : Spirit Levelling
RM to GL (m) : 0.000

RM Position Information *** Warning: RM coordinates should be verified prior to use*
*** Coordinates are calculated from reference observations*
*** Coordinate accuracies commensurate with related observations*

RM1

Geographical Coordinates
Horizontal datum : **GDA94**
Latitude : **S 33 17 23.28274**
Longitude : **E 115 44 20.85950**

MGA94 Coordinates
Zone : 50
Easting (m) : 382597.330
Northing (m) : 6315875.861

Project Grid - PCG94

Perth Coastal Grid 1994
Easting (m) : 42777.517
Northing (m) : 115111.794

Project Grid - COL94

Mark's height is outside project grid's vertical limits

Collie Grid 1994
Easting (m) : 21910.061
Northing (m) : 315024.172

Height Information

Vertical datum : **AHD71**
Height (m) : **12.349**

RM2

Geographical Coordinates
Horizontal datum : **GDA94**
Latitude : **S 33 17 23.39085**
Longitude : **E 115 44 20.85157**

MGA94 Coordinates
Zone : 50
Easting (m) : 382597.166
Northing (m) : 6315872.529

Project Grid - PCG94

Perth Coastal Grid 1994

Easting (m) : 42777.314
Northing (m) : 115108.463

Project Grid - COL94

Mark's height is outside project grid's vertical limits

Collie Grid 1994

Easting (m) : 21909.862
Northing (m) : 315020.841

Height Information

Vertical datum : **AHD71**
Height (m) : **12.372**

RM3

Geographical Coordinates

Horizontal datum : **GDA94**
Latitude : **S 33 17 23.32893**
Longitude : **E 115 44 20.76009**

MGA94 Coordinates

Zone : 50
Easting (m) : 382594.776
Northing (m) : 6315874.408

Project Grid - PCG94

Perth Coastal Grid 1994

Easting (m) : 42774.946
Northing (m) : 115110.369

Project Grid - COL94

Mark's height is outside project grid's vertical limits

Collie Grid 1994

Easting (m) : 21907.492
Northing (m) : 315022.744

Height Information

Vertical datum : **AHD71**
Height (m) : **12.464**

Cadastral Connection Fieldbooks

LG 124694

Special Notes

No Special Notes for this mark
