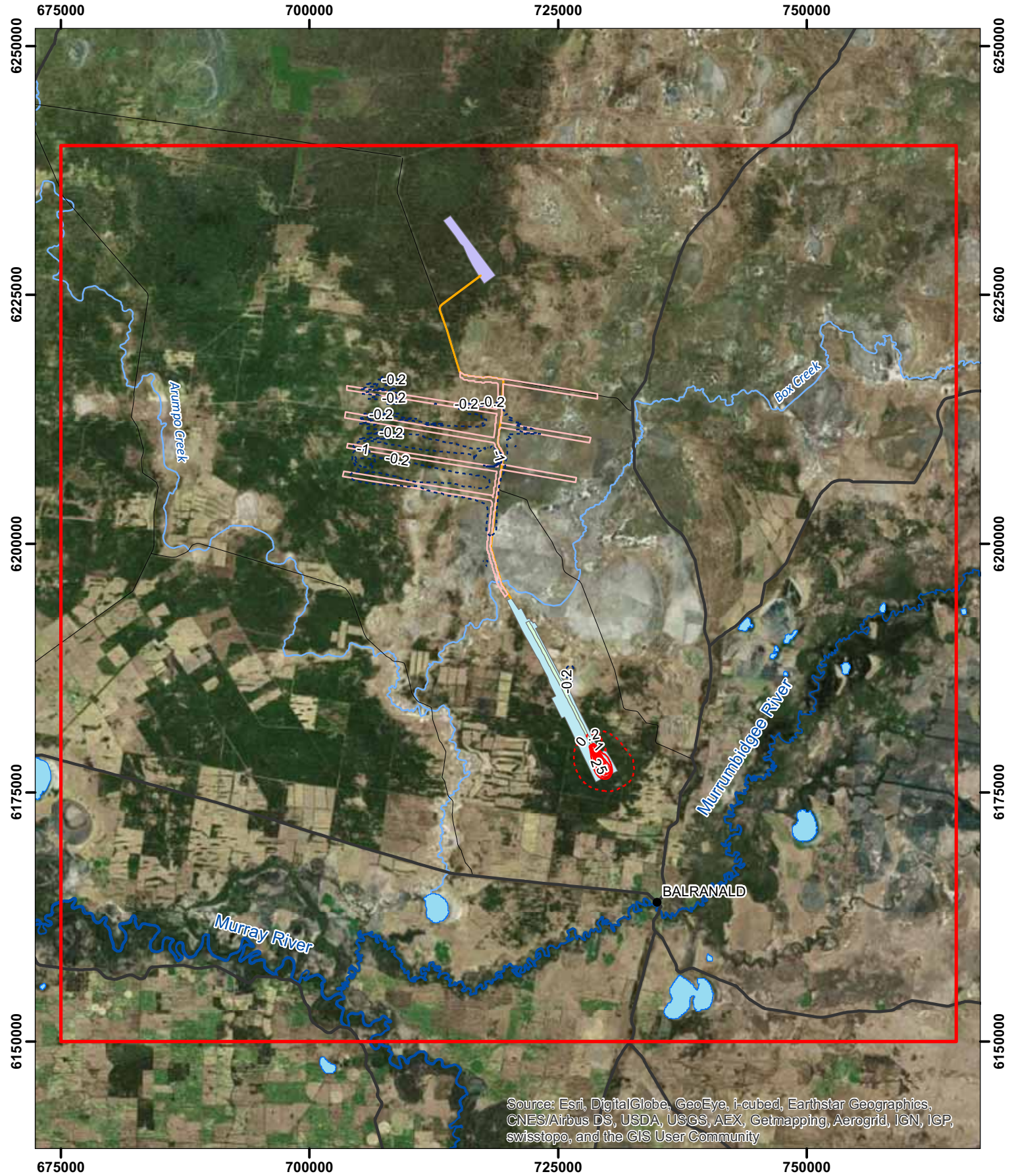


Appendix E. Modelled drawdown and depth to water



Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

GDA 1994 MGA Zone 54

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- Modelled drawdown (m)
- Modelled mounding (m)
- BAL2.0 model domain



BAL2.0 TS2 opt29 modelled drawdown in Shepparton Formation at mining year 1

I:\VESAI\Projects\I\VE23875\Technical\Spatial\mxd\BAL2.0_TS2_opt29\Drawdown from 2014\Rev2\BAL2.0_TS2_opt29_20180101_L1_DD.mxd



Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

GDA 1994 MGA Zone 54

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- Modelled drawdown (m)
- Modelled mounding (m)
- BAL2.0 model domain



BAL2.0 TS2 opt29 modelled drawdown in LPS1 foreshore at mining year 1





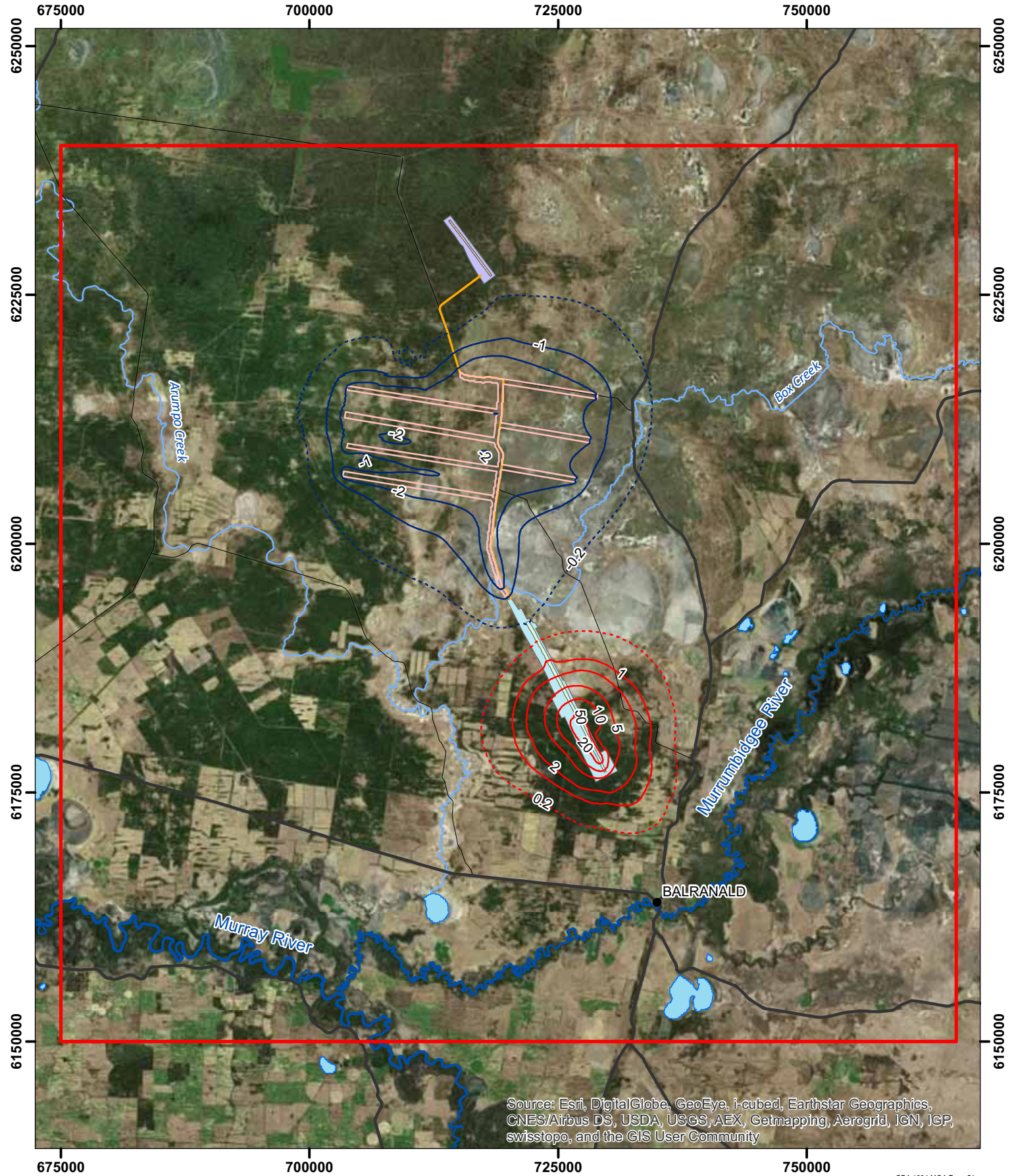
Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

GDA 1994 MGA Zone 54

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- Modelled drawdown (m)
- Modelled mounding (m)
- BAL2.0 model domain



BAL2.0 TS2 opt29 modelled drawdown in Shepparton Formation at mining year 2



Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

GDA 1994 MGA Zone 54

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- Modelled drawdown (m)
- Modelled mounding (m)
- BAL2.0 model domain



BAL2.0 TS2 opt29 modelled drawdown in LPS1 foreshore at mining year 2



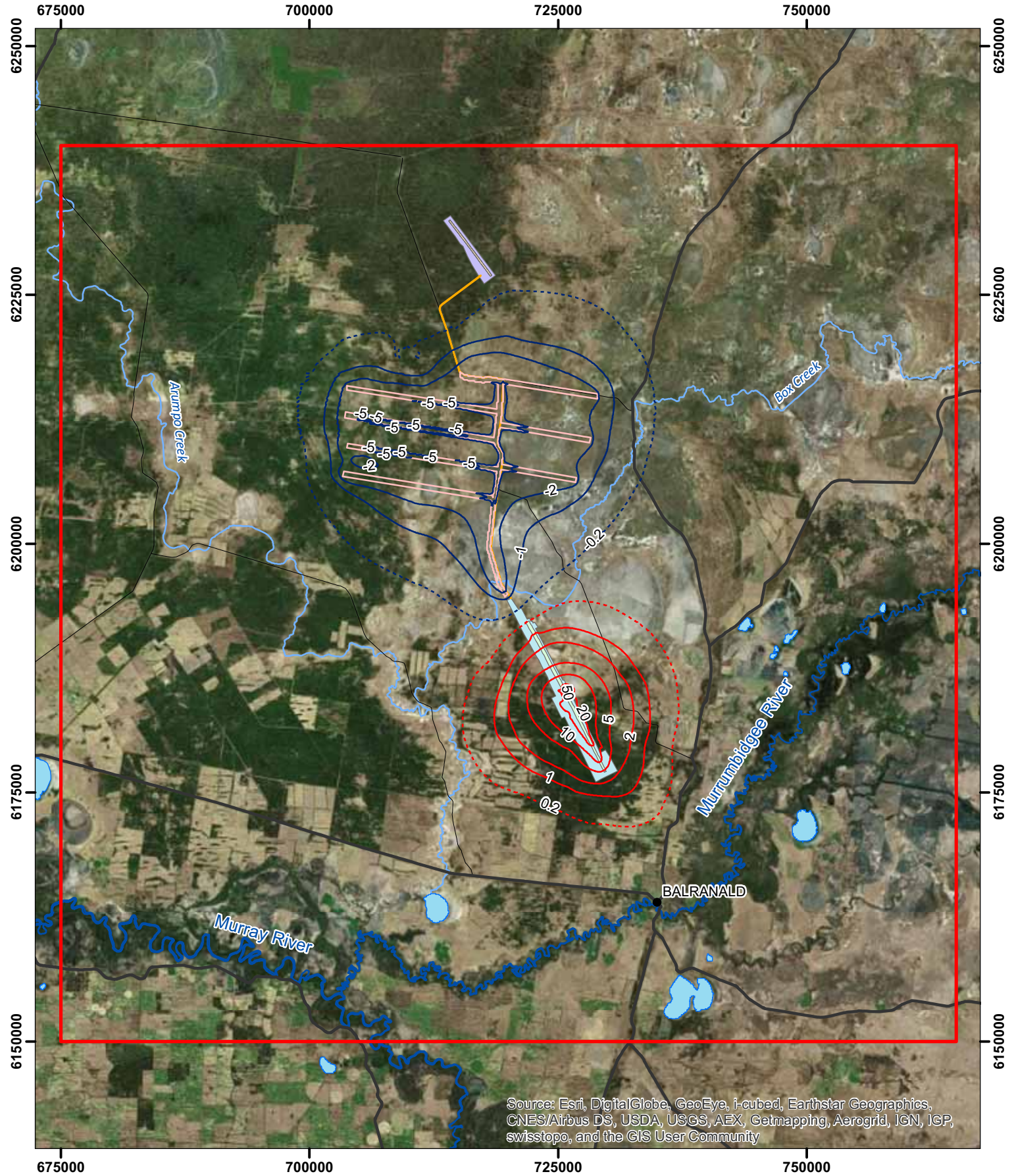


- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- Modelled drawdown (m)
- Modelled mounding (m)
- BAL2.0 model domain



BAL2.0 TS2 opt29 modelled drawdown in Shepparton Formation at mining year 3

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

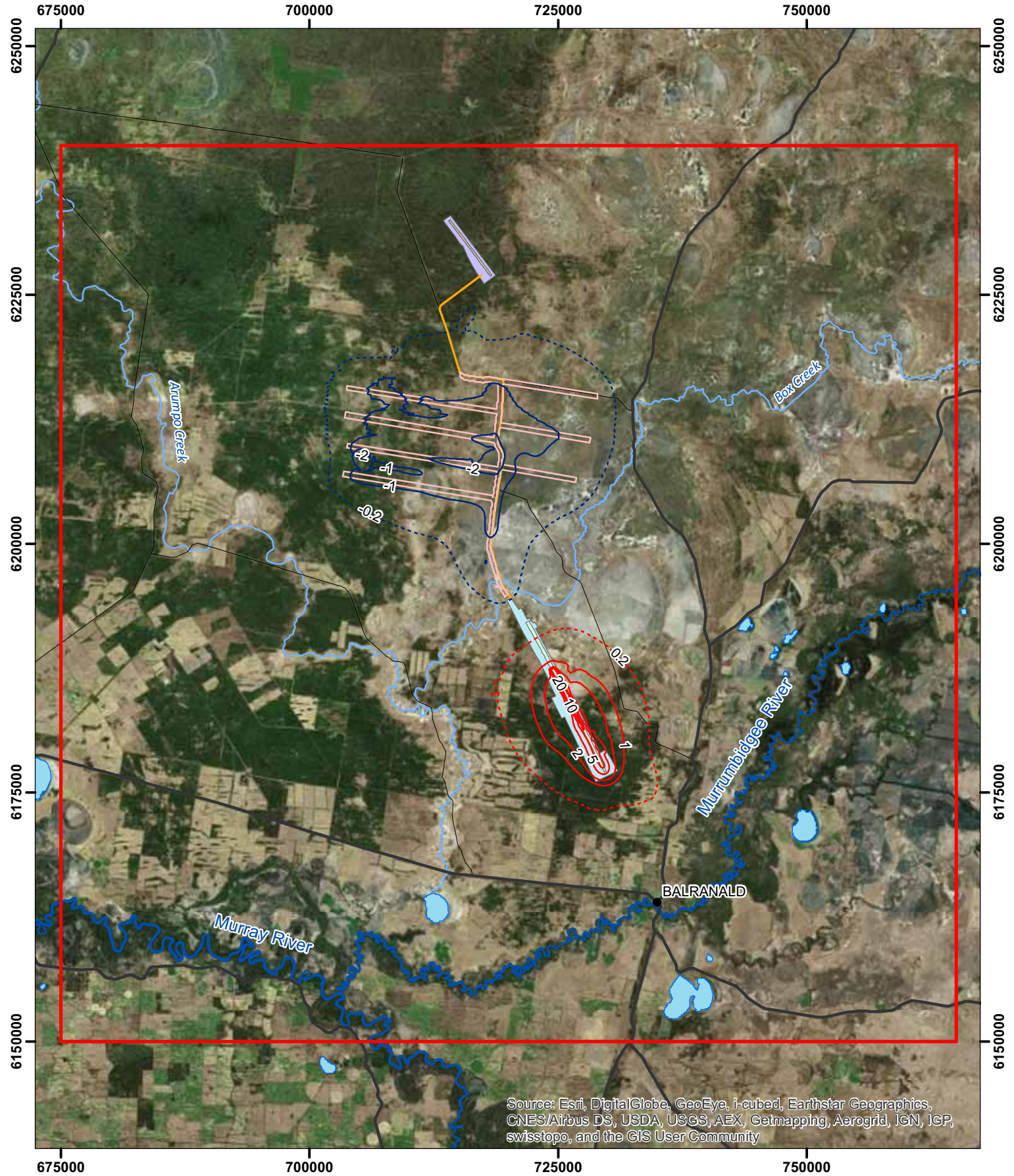
GDA 1994 MGA Zone 54

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- Modelled drawdown (m)
- Modelled mounding (m)
- BAL2.0 model domain



BAL2.0 TS2 opt29 modelled drawdown in LPS1 foreshore at mining year 3





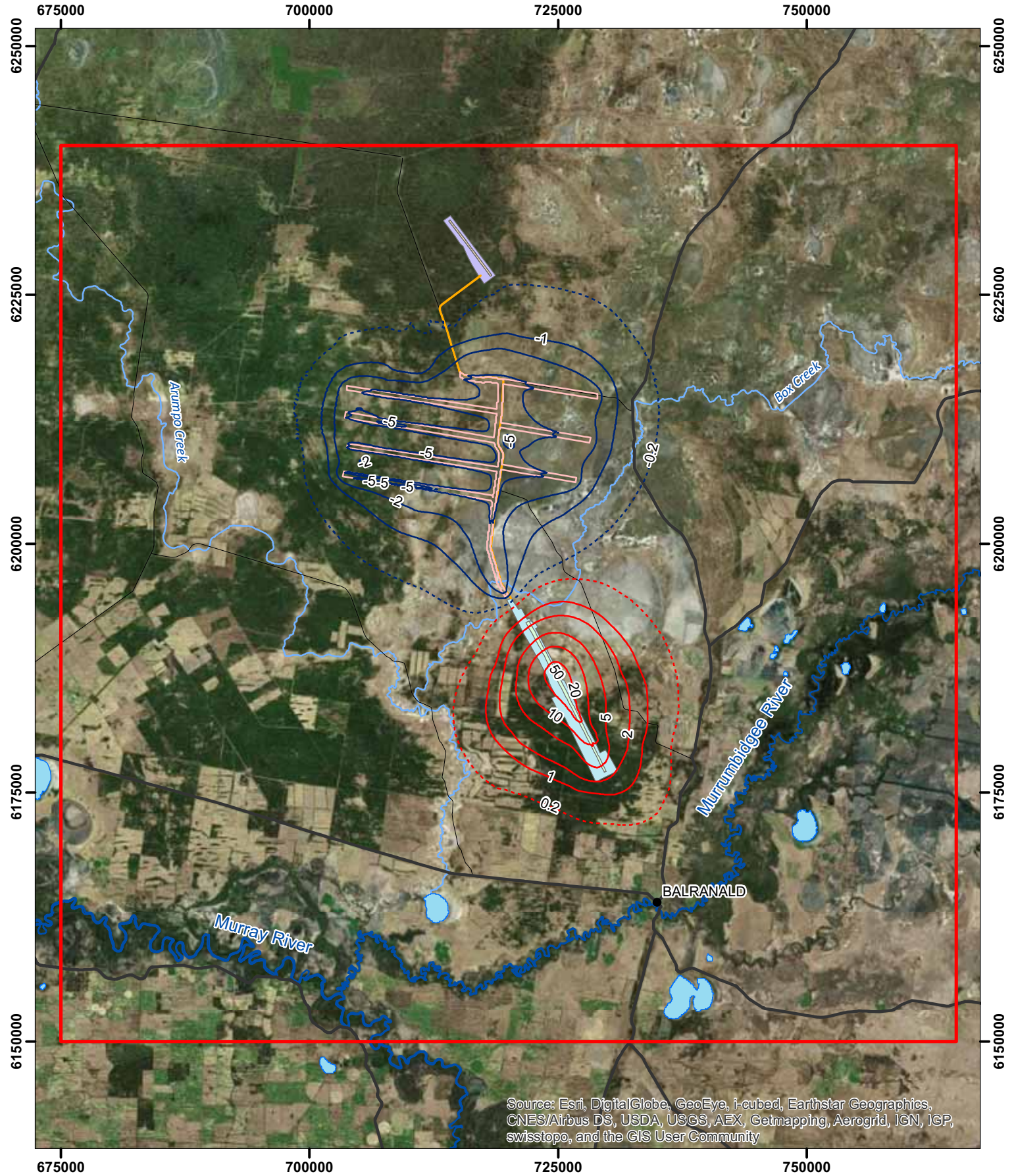
Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

GDA 1994 MGA Zone 54

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- Modelled drawdown (m)
- Modelled mounding (m)
- BAL2.0 model domain



BAL2.0 TS2 opt29 modelled drawdown in Shepparton Formation at mining year 4



Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

GDA 1994 MGA Zone 54

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- Modelled drawdown (m)
- Modelled mounding (m)
- BAL2.0 model domain



BAL2.0 TS2 opt29 modelled drawdown in LPS1 foreshore at mining year 4





Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

GDA 1994 MGA Zone 54

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- Modelled drawdown (m)
- Modelled mounding (m)
- BAL2.0 model domain



BAL2.0 TS2 opt29 modelled drawdown in Shepparton Formation at mining year 5

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

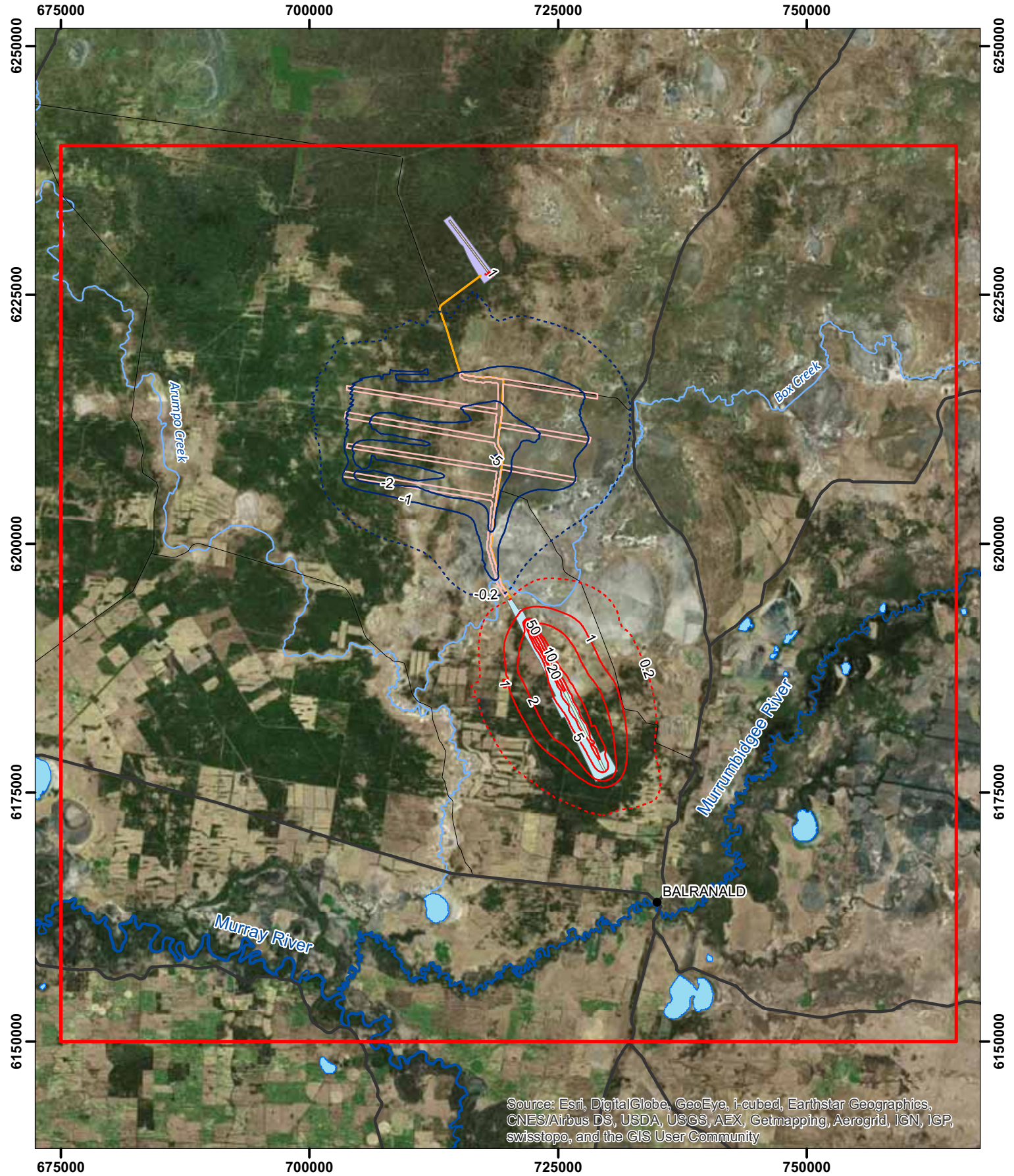
GDA 1994 MGA Zone 54

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- Modelled drawdown (m)
- Modelled mounding (m)
- BAL2.0 model domain



BAL2.0 TS2 opt29 modelled drawdown in LPS1 foreshore at mining year 5





Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

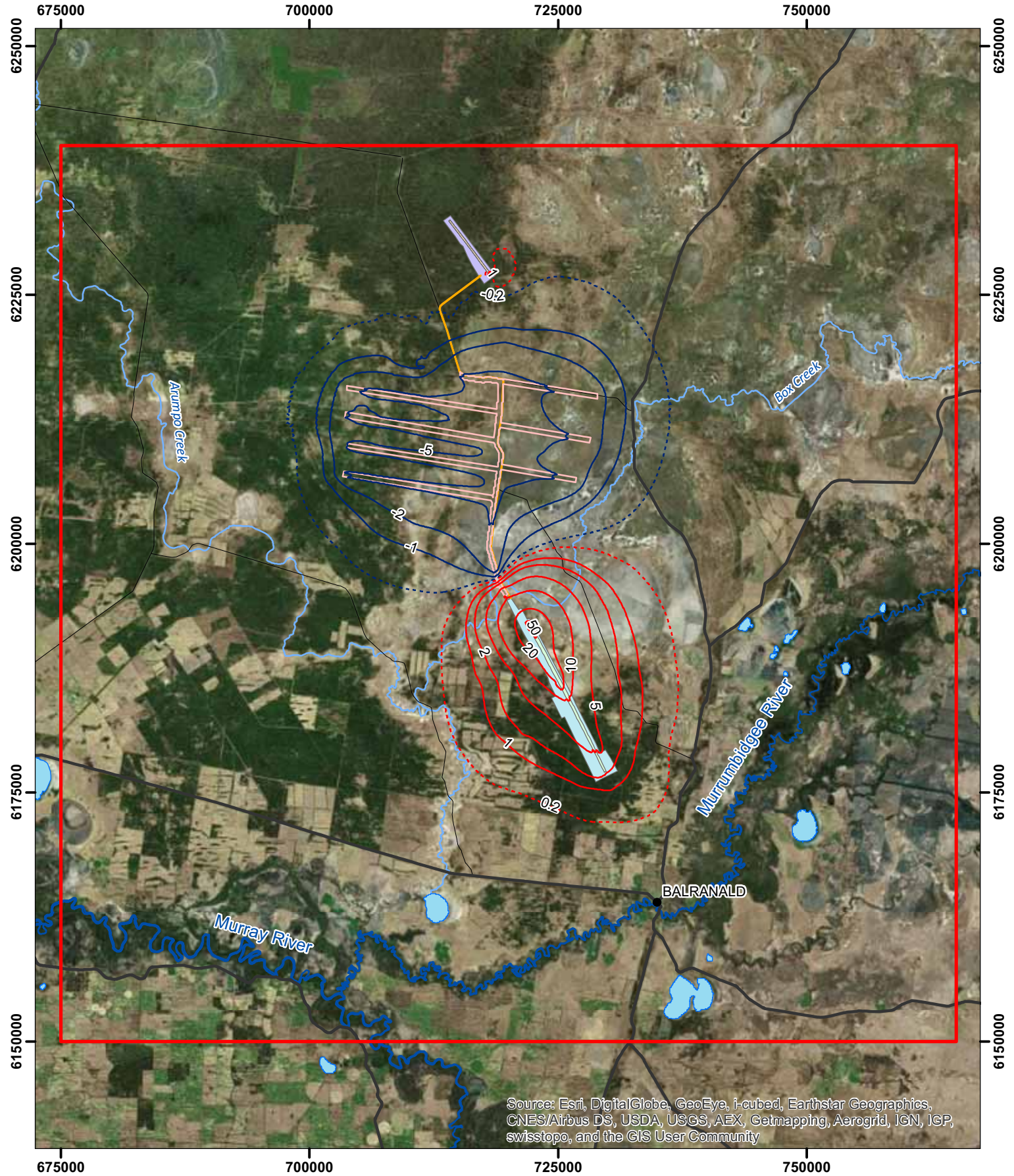
GDA 1994 MGA Zone 54

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- Modelled drawdown (m)
- Modelled mounding (m)
- BAL2.0 model domain



BAL2.0 TS2 opt29 modelled drawdown in Shepparton Formation at mining year 6

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

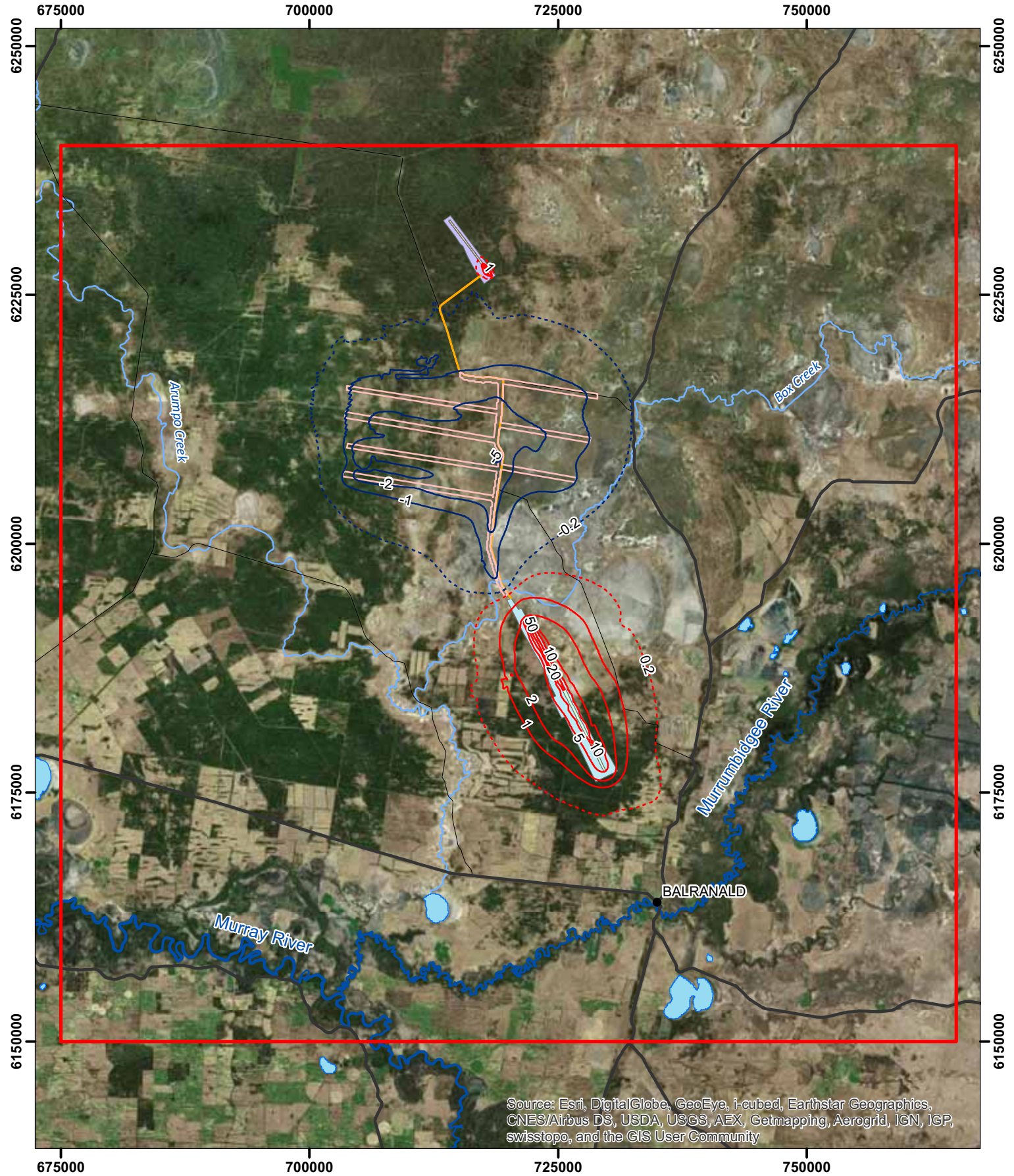
GDA 1994 MGA Zone 54

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- Modelled drawdown (m)
- Modelled mounding (m)
- BAL2.0 model domain



BAL2.0 TS2 opt29 modelled drawdown in LPS1 foreshore at mining year 6





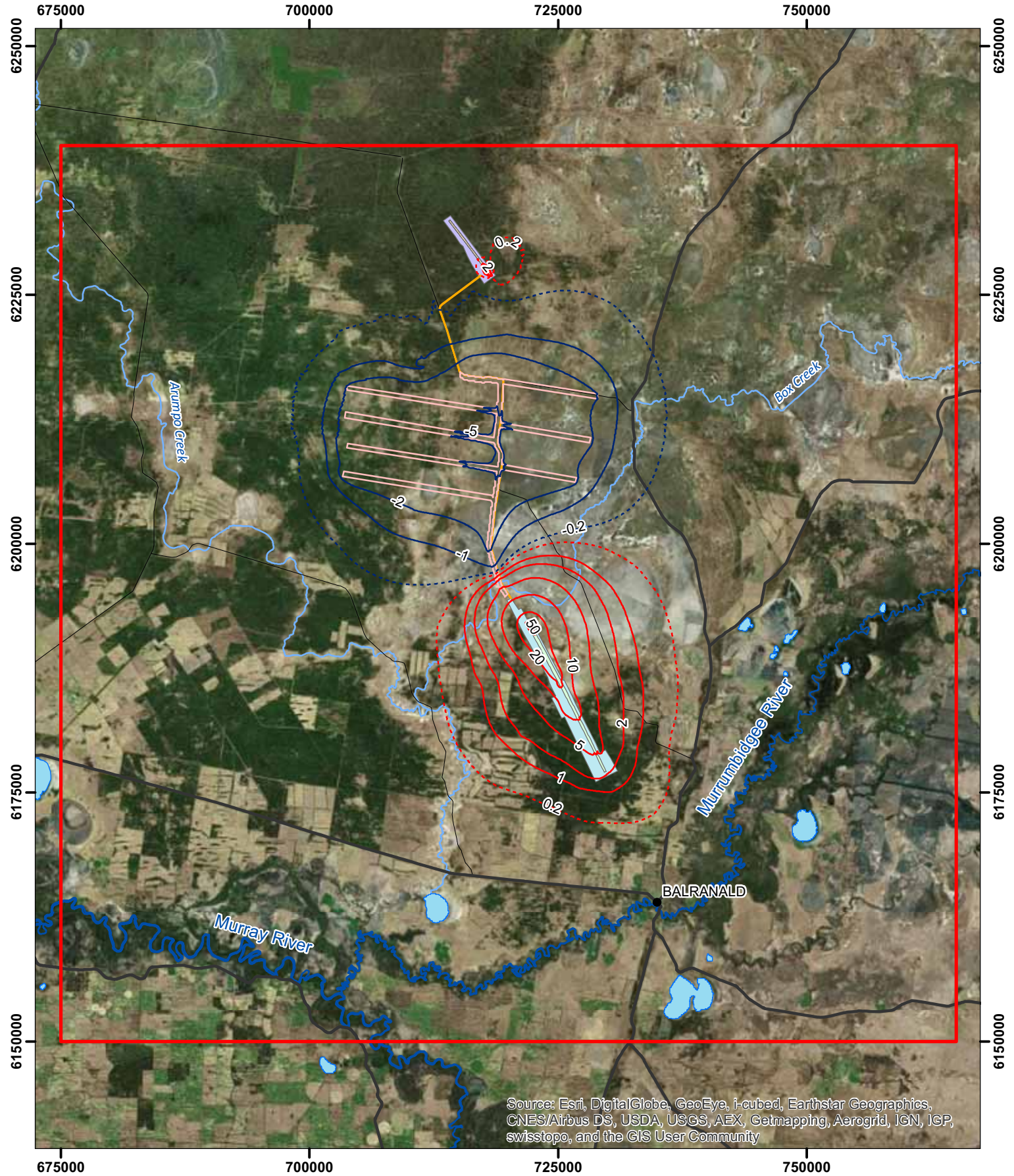
Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

GDA 1994 MGA Zone 54

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- Modelled drawdown (m)
- Modelled mounding (m)
- BAL2.0 model domain



BAL2.0 TS2 opt29 modelled drawdown in Shepparton Formation at mining year 6.3



Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

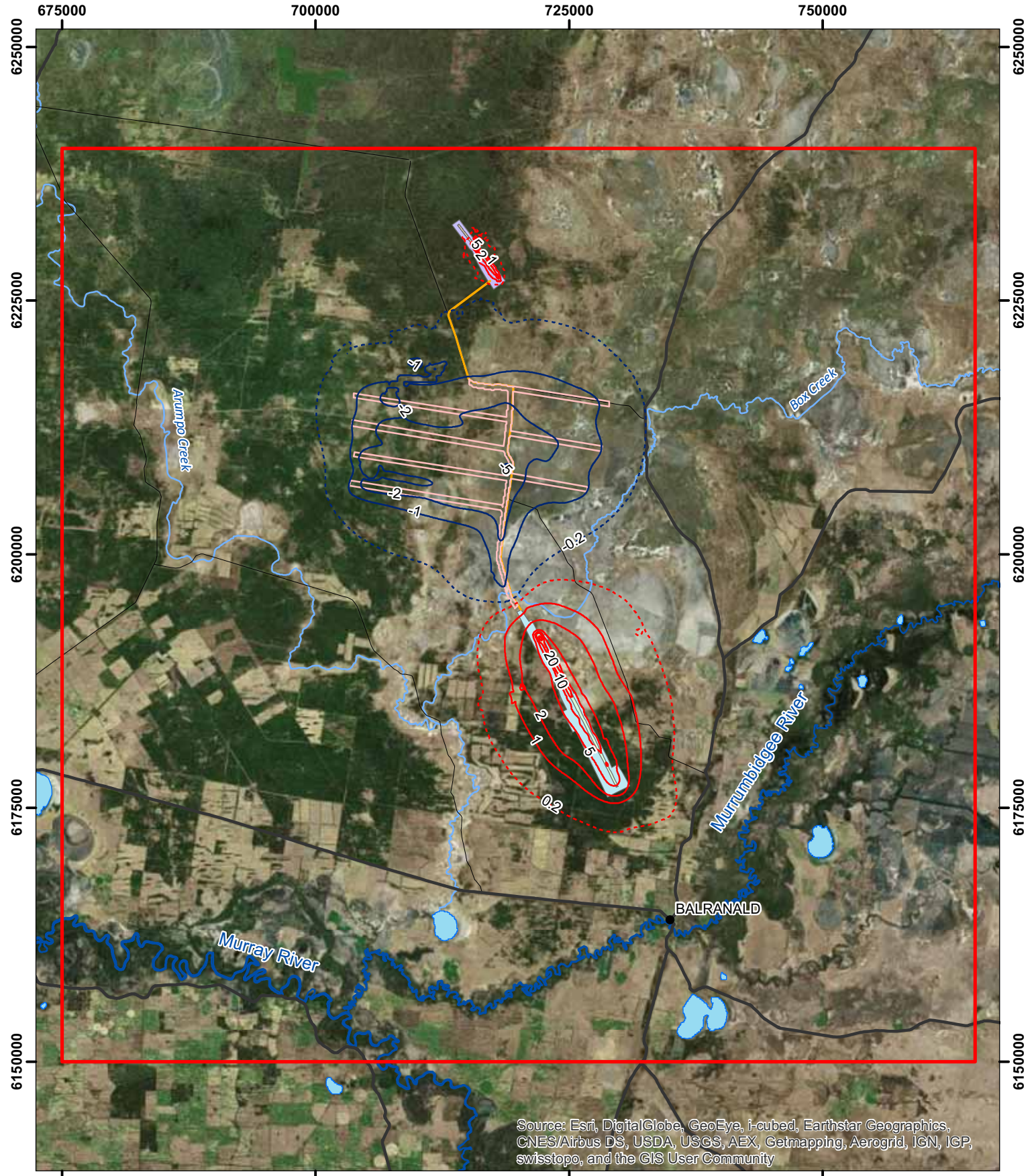
GDA 1994 MGA Zone 54

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- Modelled drawdown (m)
- Modelled mounding (m)
- BAL2.0 model domain



BAL2.0 TS2 opt29 modelled drawdown in LPS1 FS at mining year 6.3





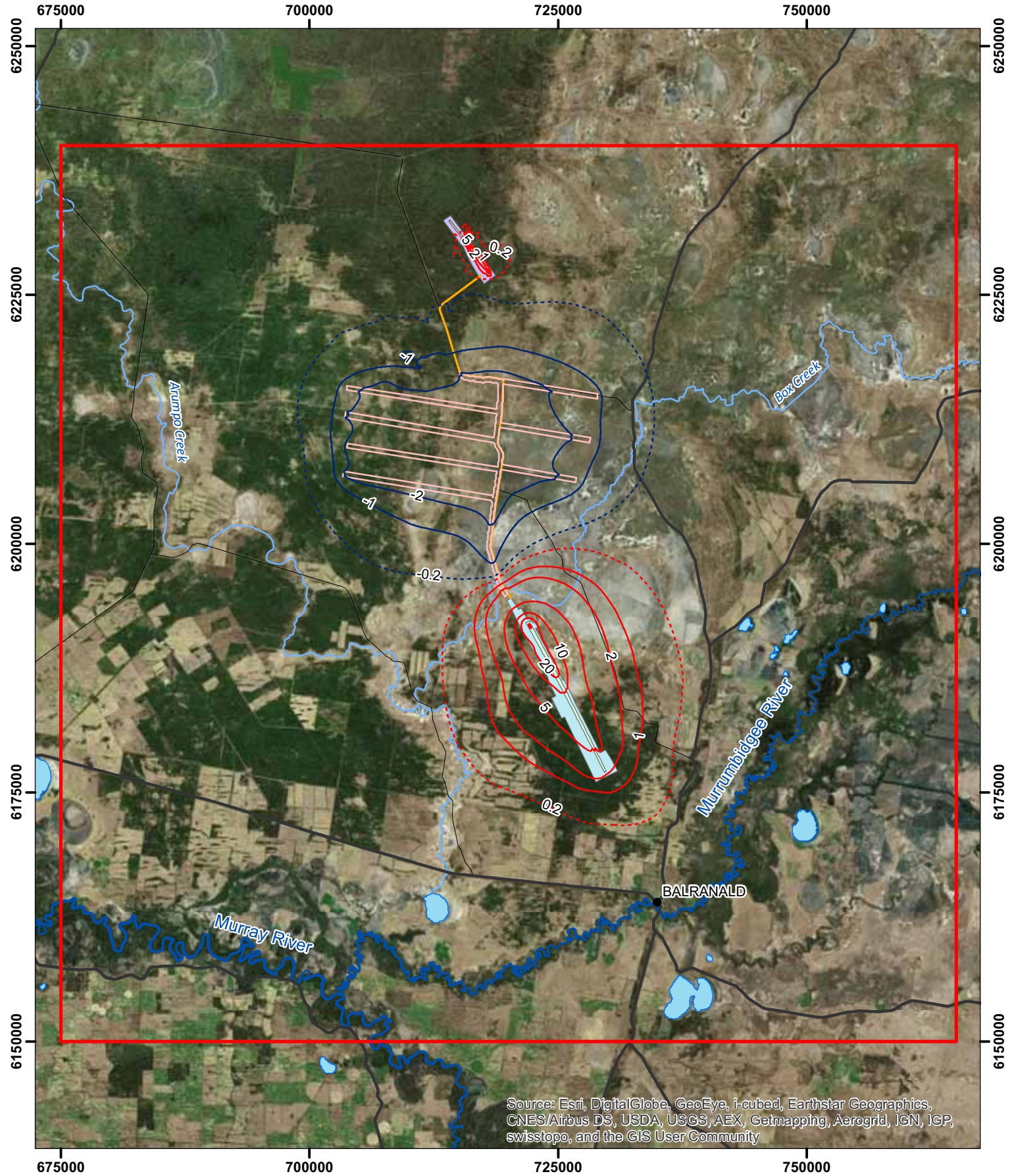
- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- Modelled drawdown (m)
- Modelled mounding (m)
- BAL2.0 model domain

GDA 1994 MGA Zone 54



BAL2.0 TS2 opt29 modelled drawdown in Shepparton Formation at mining year 7

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

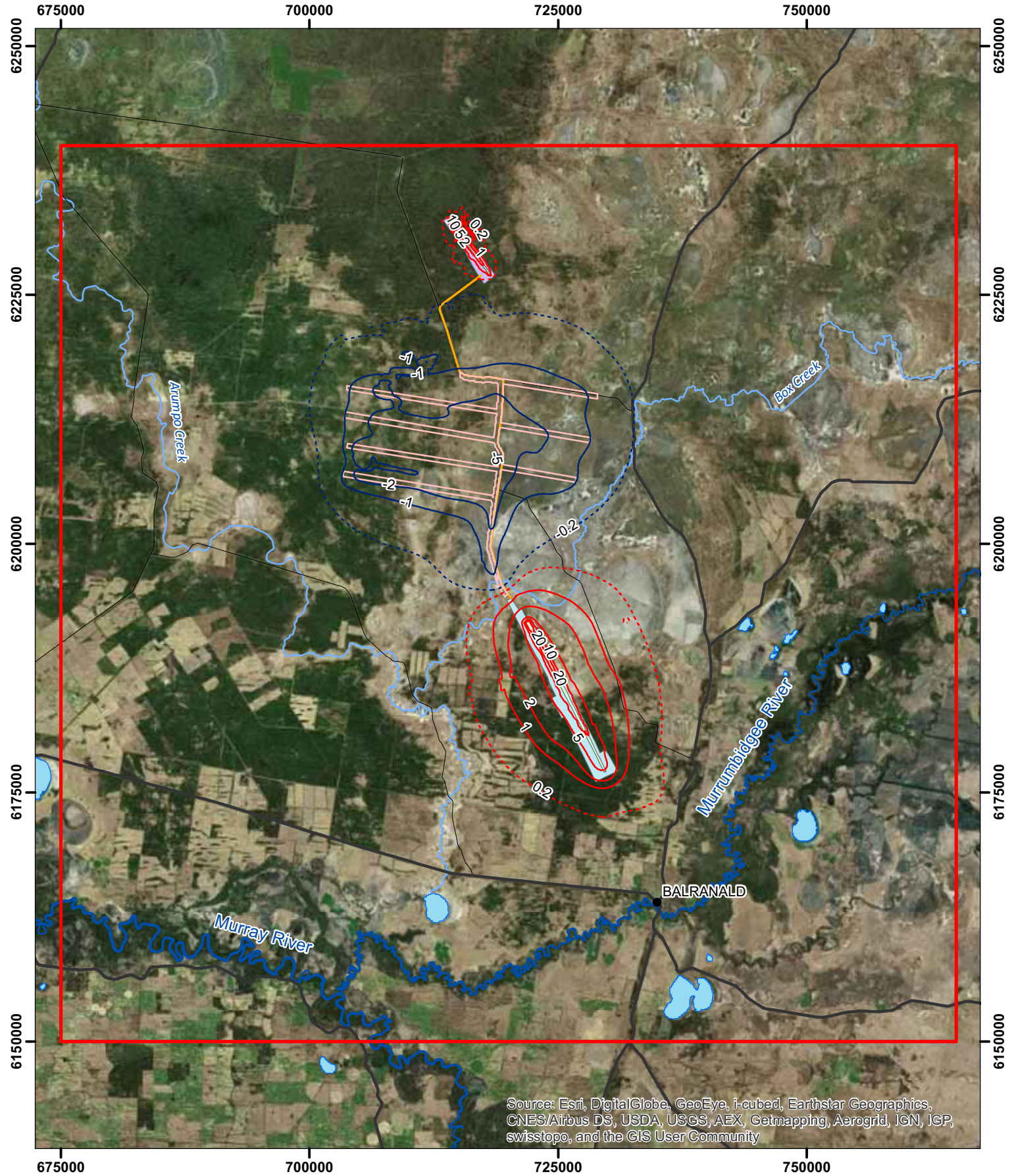
GDA 1994 MGA Zone 54

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- Modelled drawdown (m)
- Modelled mounding (m)
- BAL2.0 model domain



BAL2.0 TS2 opt29 modelled drawdown in LPS1 foreshore at mining year 7





Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

GDA 1994 MGA Zone 54

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- Modelled drawdown (m)
- Modelled mounding (m)
- BAL2.0 model domain



BAL2.0 TS2 opt29 modelled drawdown in Shepparton Formation at mining year 7.4



Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

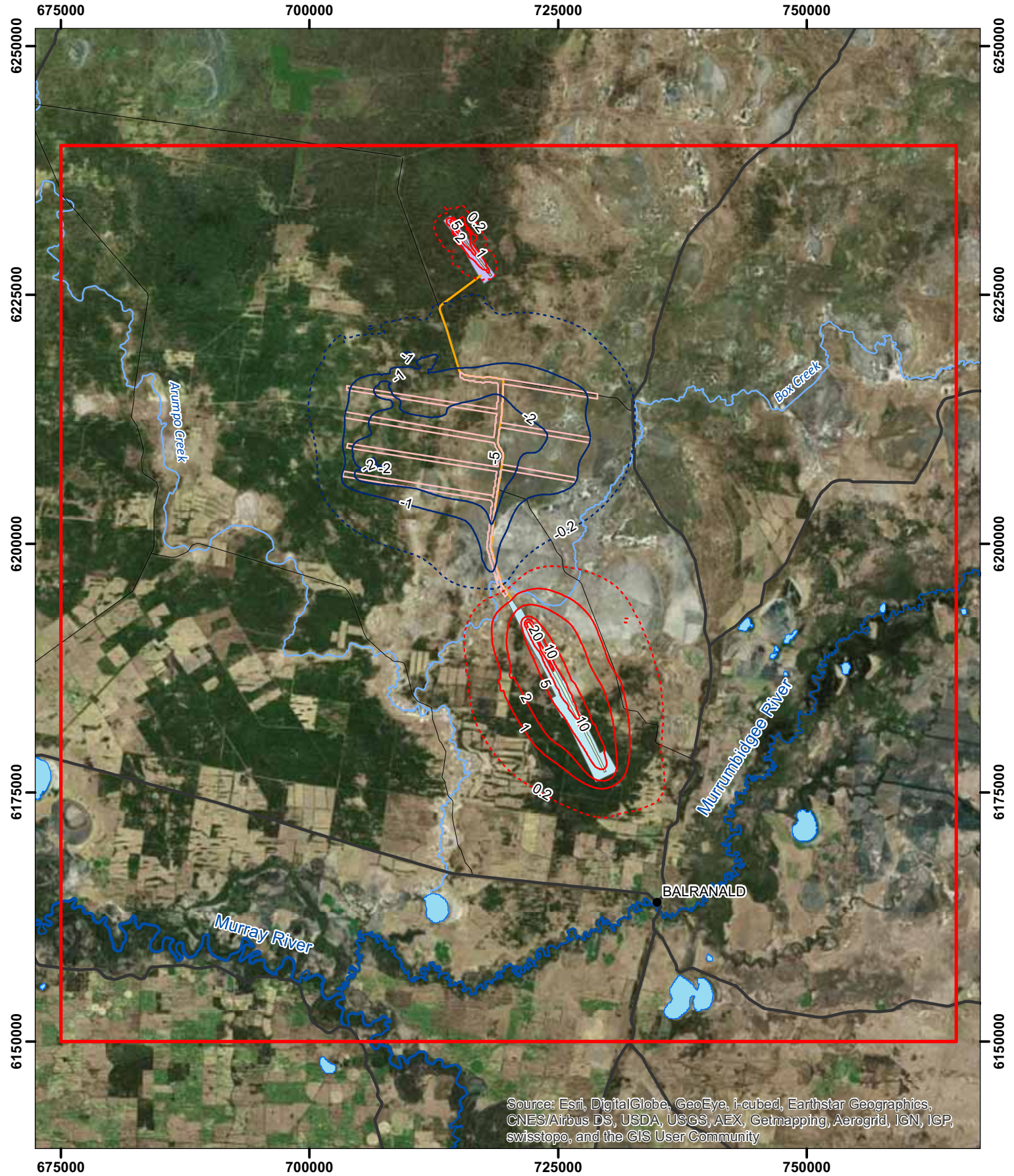
GDA 1994 MGA Zone 54

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- Modelled drawdown (m)
- Modelled mounding (m)
- BAL2.0 model domain



BAL2.0 TS2 opt29 modelled drawdown in LPS1 foreshore at mining year 7.4





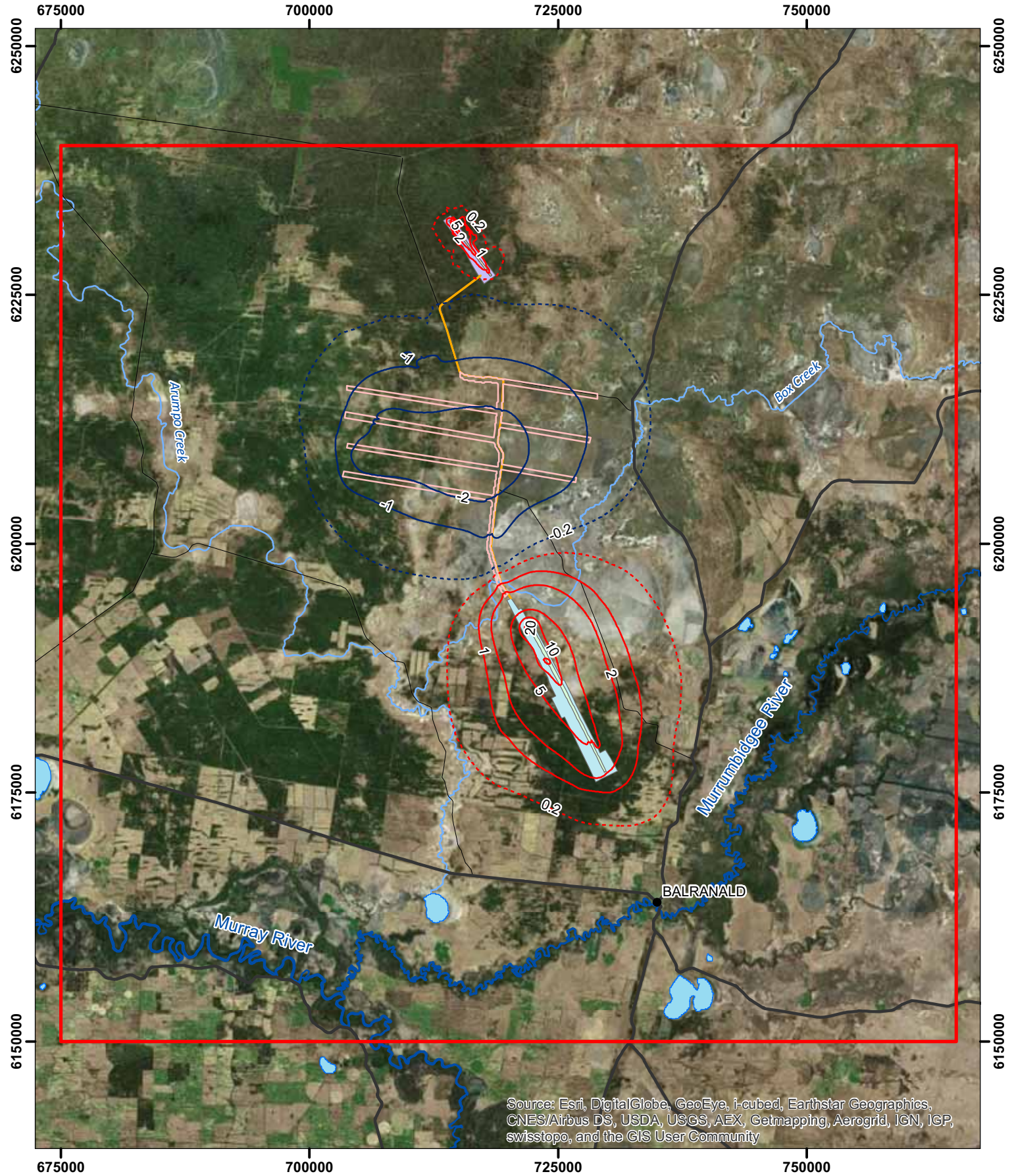
- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- Modelled drawdown (m)
- Modelled mounding (m)
- BAL2.0 model domain

GDA 1994 MGA Zone 54



BAL2.0 TS2 opt29 modelled drawdown in Shepparton Formation at mining year 8

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

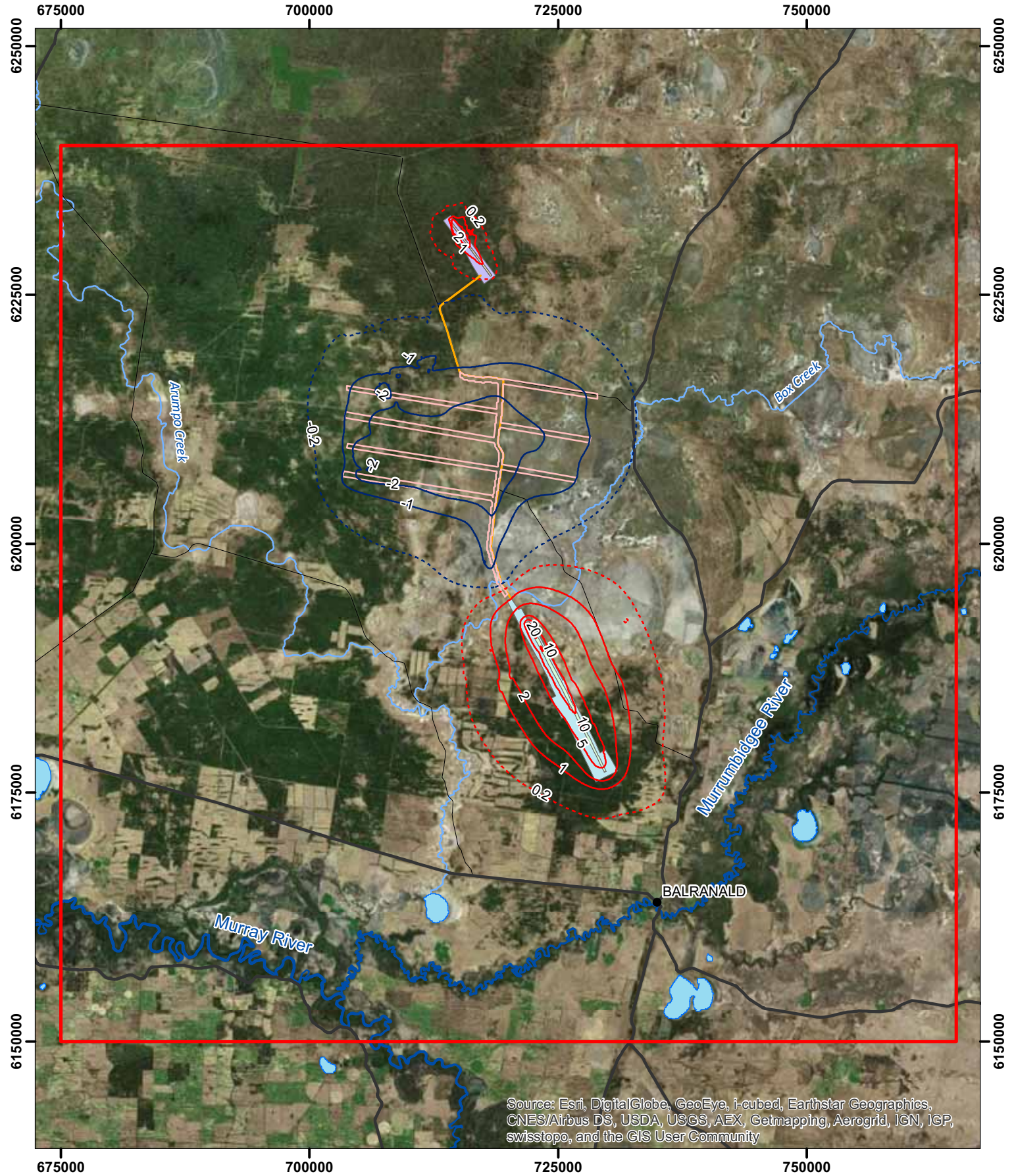
GDA 1994 MGA Zone 54

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- Modelled drawdown (m)
- Modelled mounding (m)
- BAL2.0 model domain



BAL2.0 TS2 opt29 modelled drawdown in LPS1 foreshore at mining year 8





Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

GDA 1994 MGA Zone 54

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- Modelled drawdown (m)
- Modelled mounding (m)
- BAL2.0 model domain



BAL2.0 TS2 opt29 modelled drawdown in Shepparton Formation 1 year post-mining

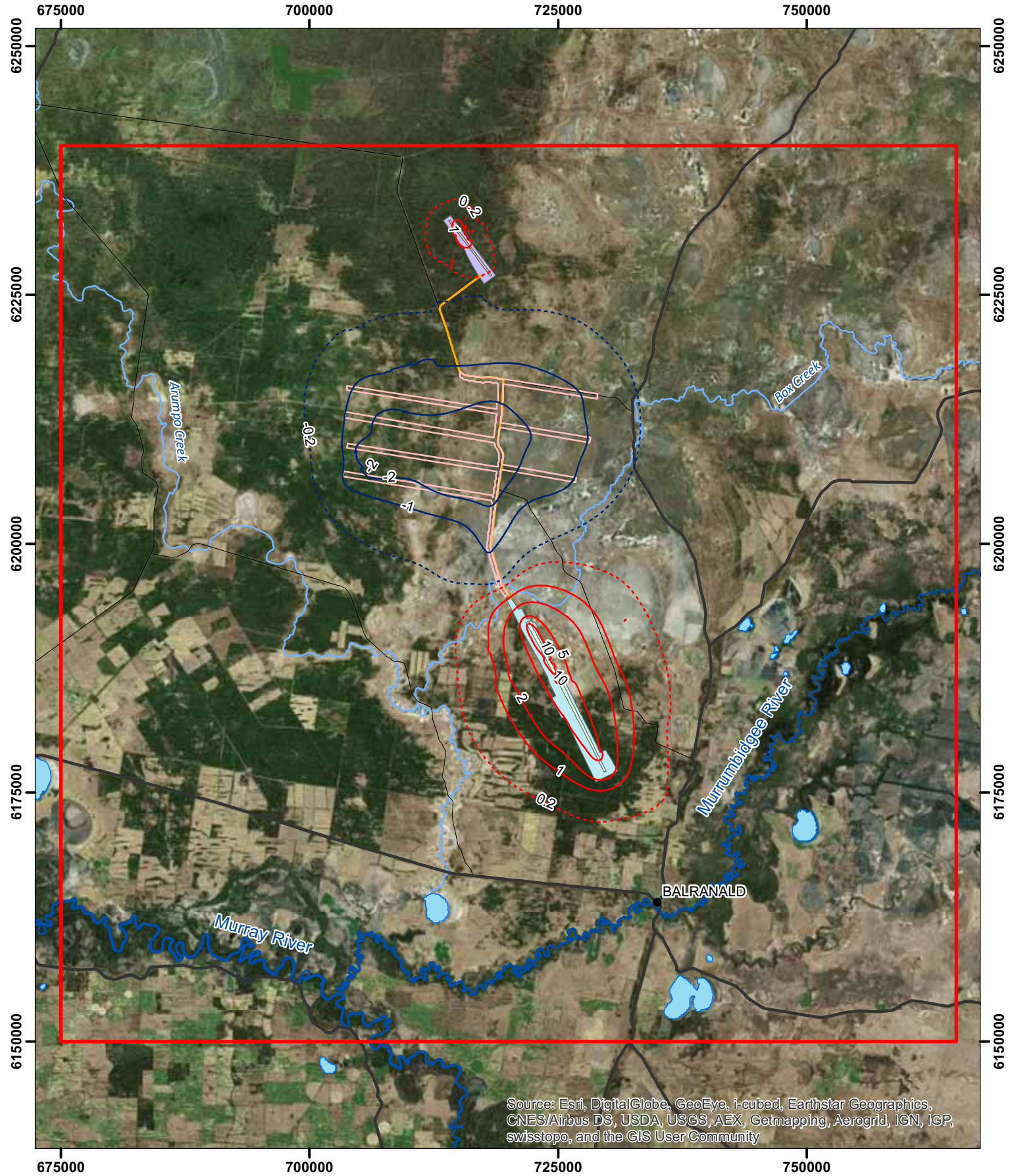


- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- Modelled drawdown (m)
- Modelled mounding (m)
- BAL2.0 model domain



BAL2.0 TS2 opt29 modelled drawdown in LPS1 foreshore 1 year post-mining





- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- Modelled drawdown (m)
- Modelled mounding (m)
- BAL2.0 model domain



BAL2.0 TS2 opt29 modelled drawdown in Shepparton Formation 5 years post-mining





Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

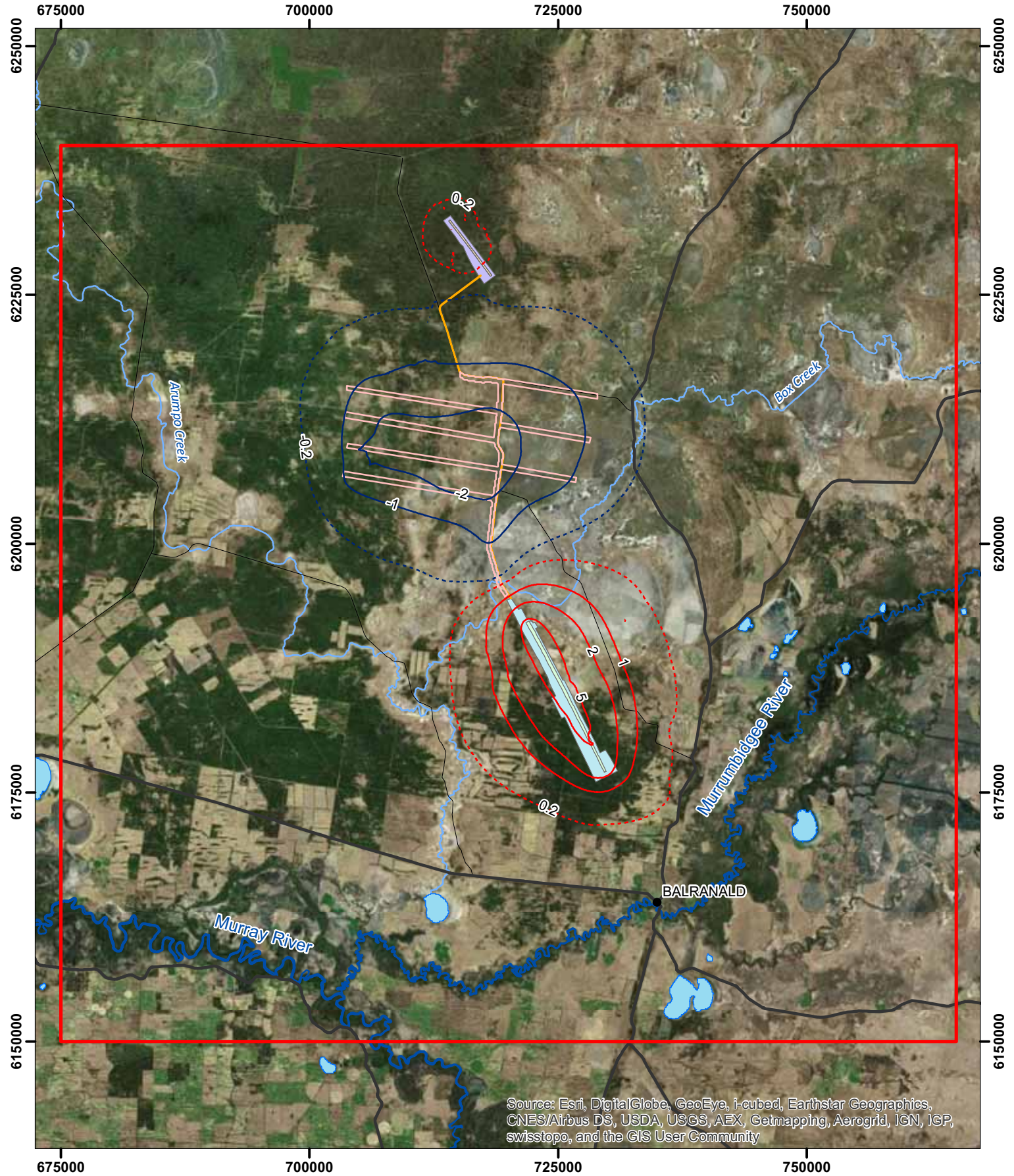
GDA 1994 MGA Zone 54

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- Modelled drawdown (m)
- Modelled mounding (m)
- BAL2.0 model domain



BAL2.0 TS2 opt29 modelled drawdown in LPS1 foreshore 5 years post-mining





Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

GDA 1994 MGA Zone 54

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- Modelled drawdown (m)
- Modelled mounding (m)
- BAL2.0 model domain



BAL2.0 TS2 opt29 modelled drawdown in Shepparton Formation 10 years post-mining

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- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- Modelled drawdown (m)
- Modelled mounding (m)
- BAL2.0 model domain

GDA 1994 MGA Zone 54



BAL2.0 TS2 opt29 modelled drawdown in LPS1 foreshore 10 years post-mining



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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

GDA 1994 MGA Zone 54

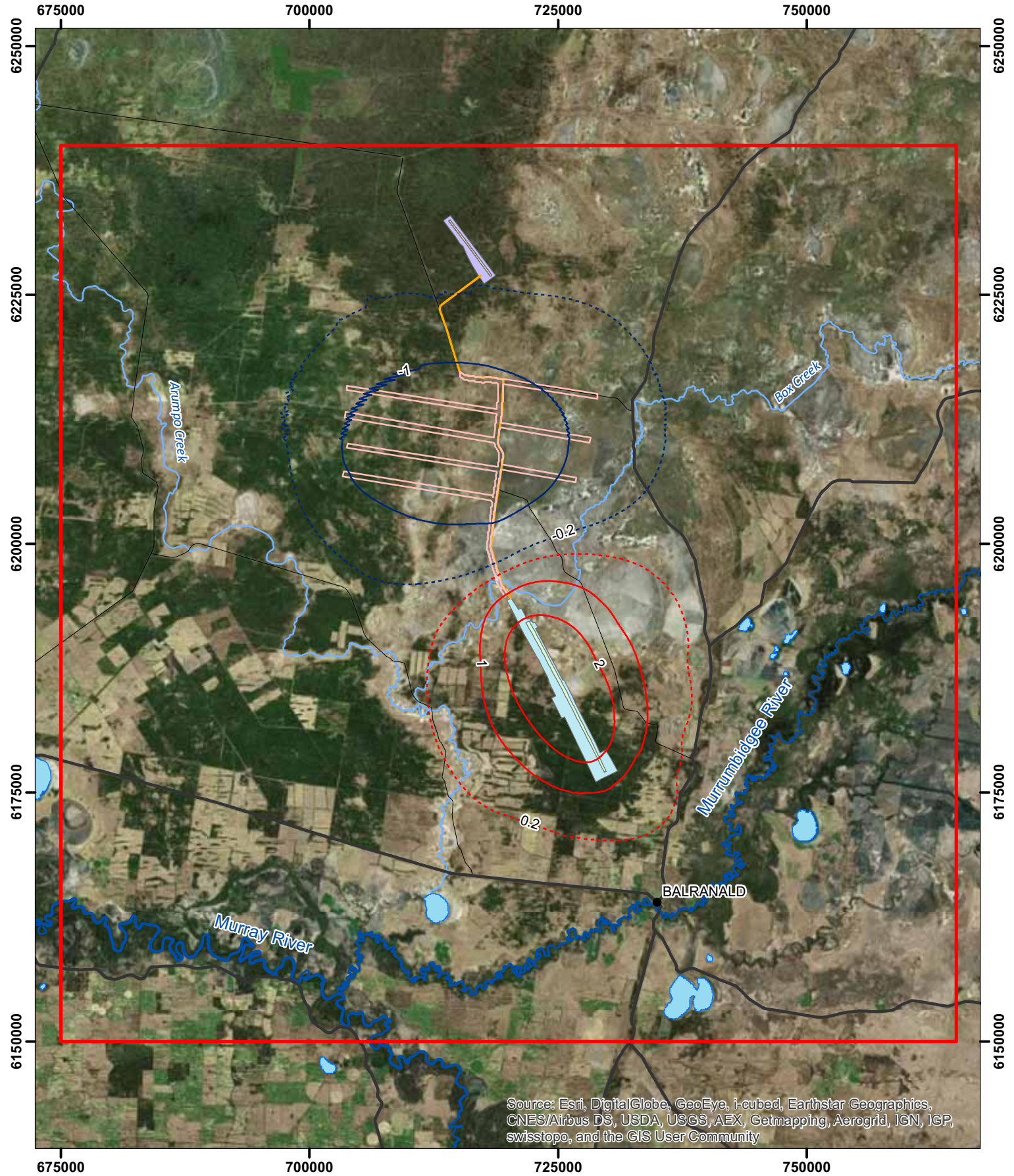
- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- Modelled drawdown (m)
- Modelled mounding (m)
- BAL2.0 model domain



BAL2.0 TS2 opt29 modelled drawdown in Shepparton Formation 30 years post-mining



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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

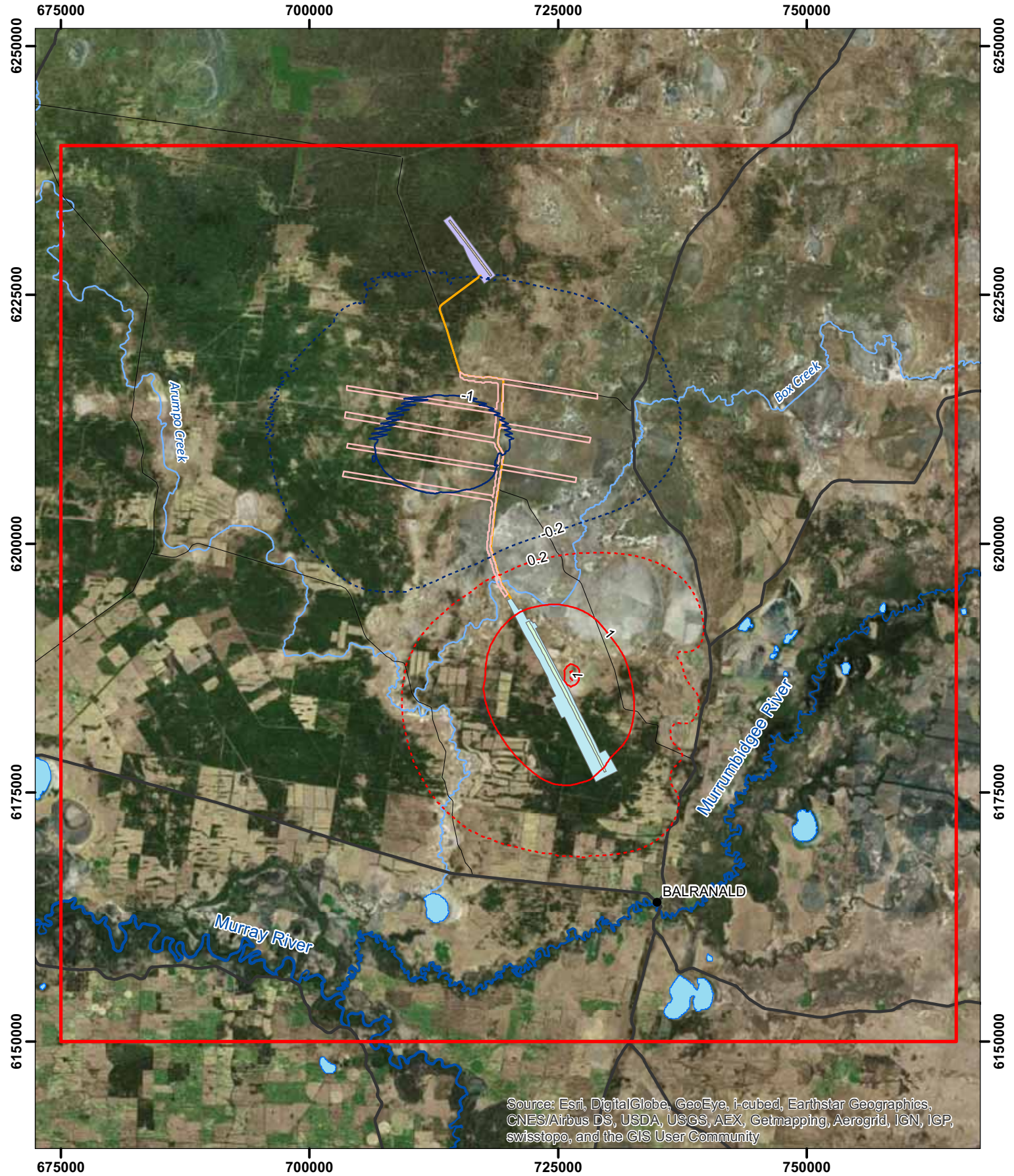
GDA 1994 MGA Zone 54

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- Modelled drawdown (m)
- Modelled mounding (m)
- BAL2.0 model domain



BAL2.0 TS2 opt29 modelled drawdown in LPS1 foreshore 30 years post-mining





Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

GDA 1994 MGA Zone 54

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- Modelled drawdown (m)
- Modelled mounding (m)
- BAL2.0 model domain



BAL2.0 TS2 opt29 modelled drawdown in Shepparton Formation 100 years post-mining

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

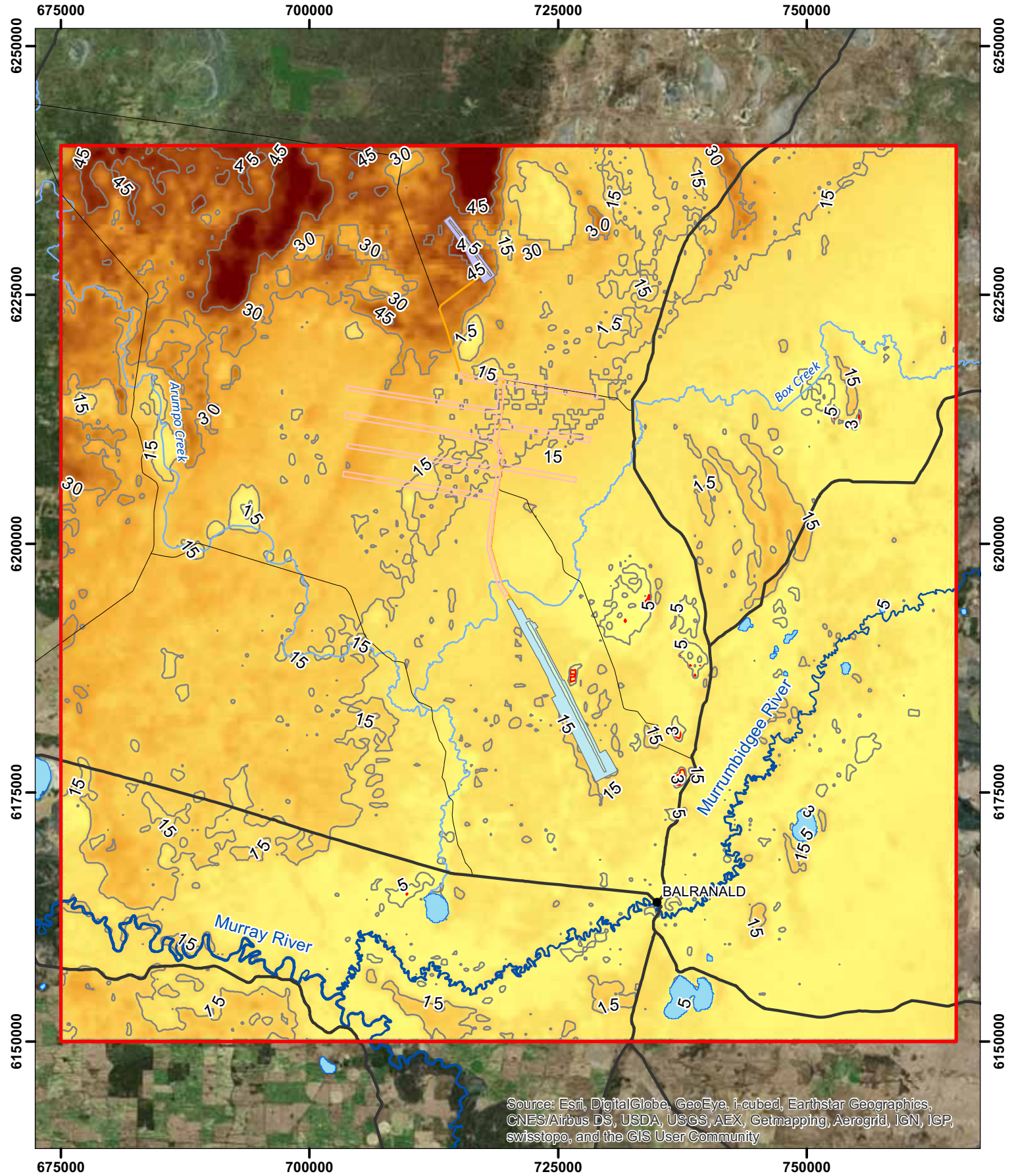
GDA 1994 MGA Zone 54

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- Modelled drawdown (m)
- Modelled mounding (m)
- BAL2.0 model domain



BAL2.0 TS2 opt29 modelled drawdown in LPS1 foreshore 100 years post-mining

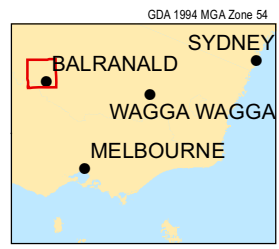




Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

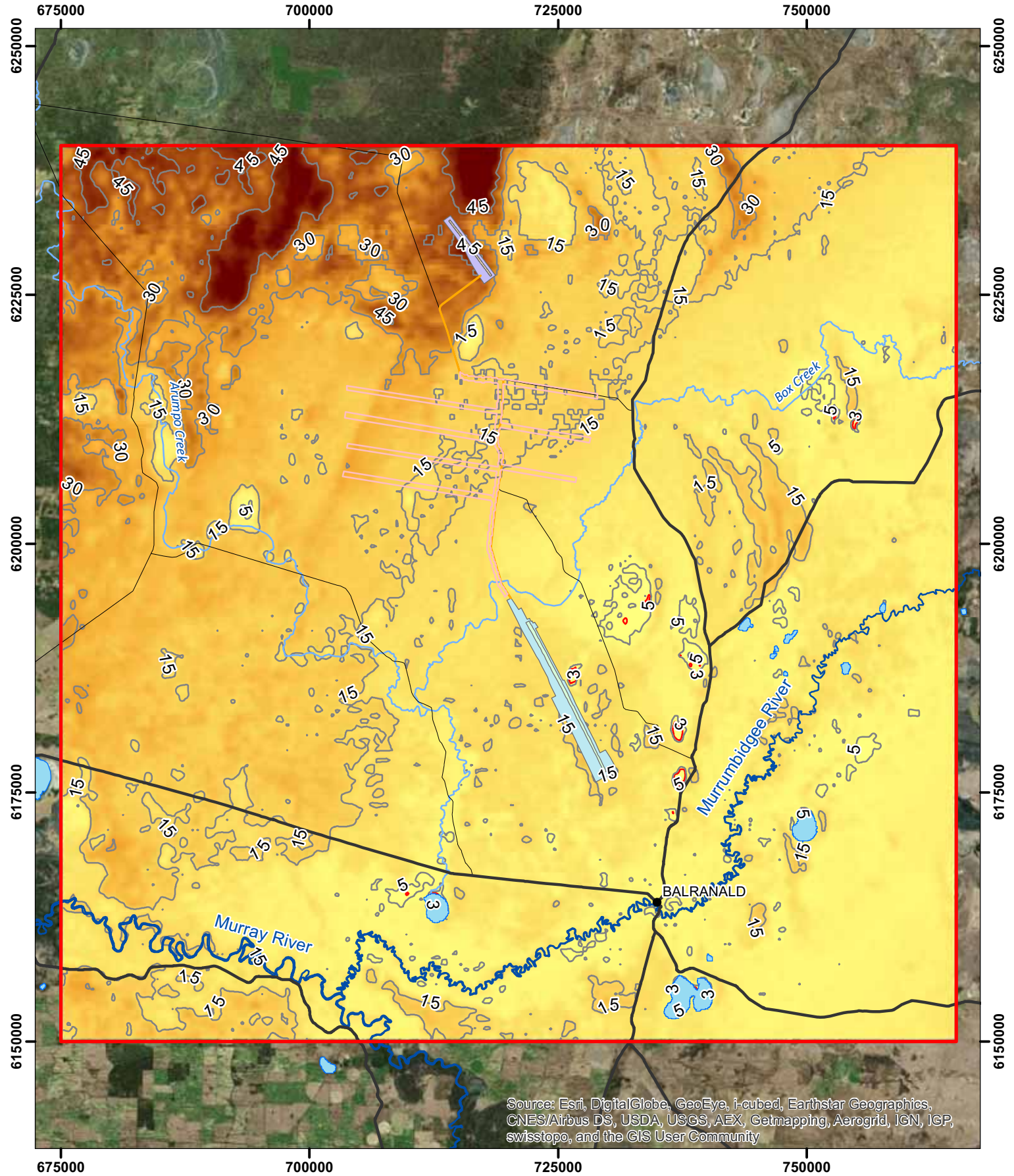
- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- BAL2.0 model domain
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)

Modelled depth to water (m)
 High : 71.6
 Low : 0.7



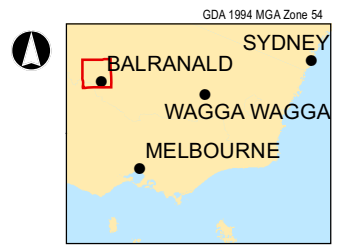
BAL2.0 TS2 opt29 modelled depth to water in Shepparton Formation at mining year 0 (end of construction)

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- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- BAL2.0 model domain
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)

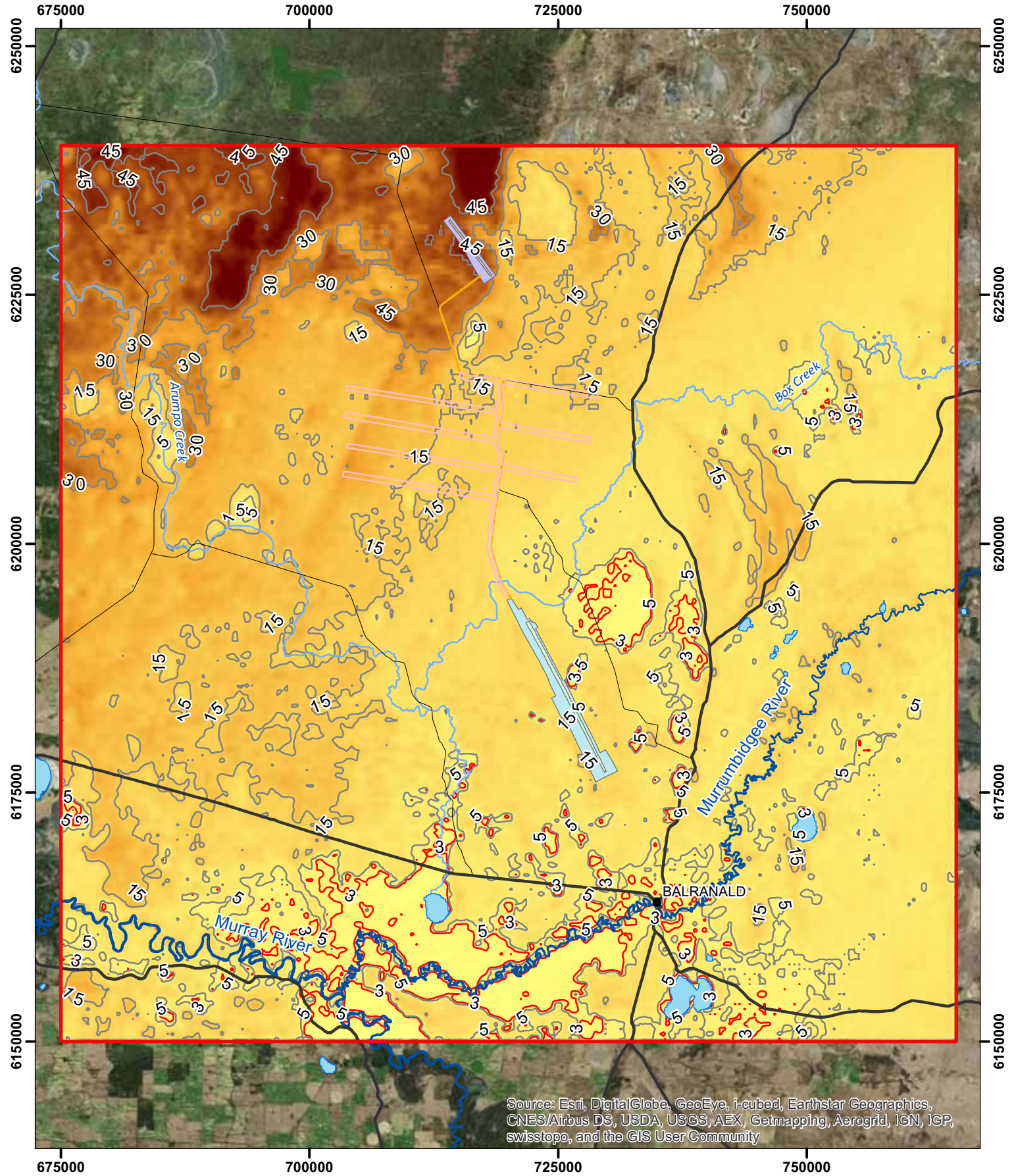
Modelled depth to water (m)
 High : 71.6
 Low : 0.7



BAL2.0 TS2 opt29 modelled depth to water in LPS1 foreshore at mining year 0 (end of construction)

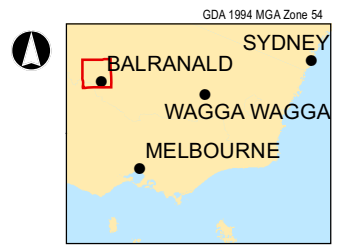


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- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- BAL2.0 model domain
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)

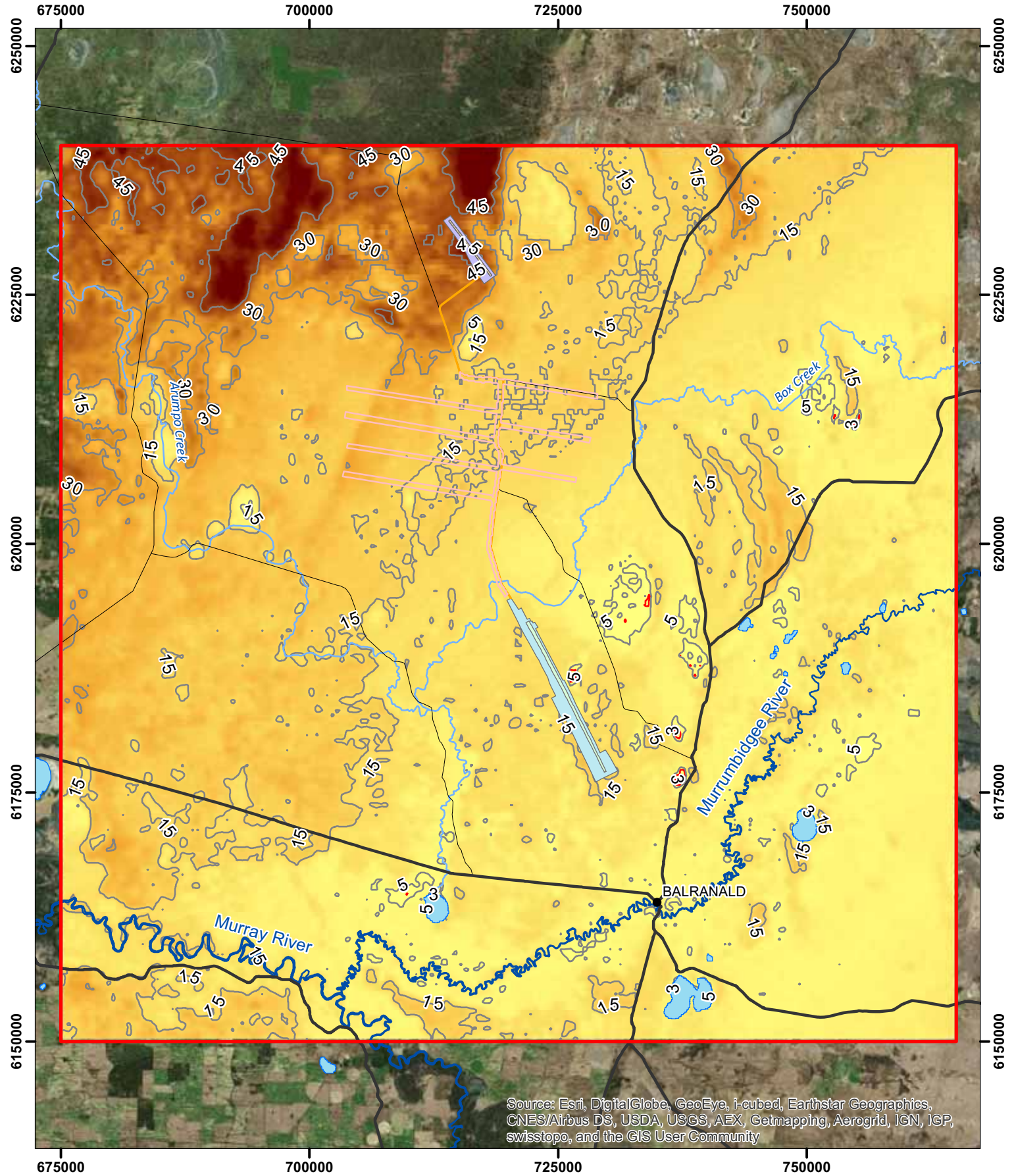
Modelled depth to water (m)
 High : 71.6
 Low : 0.7



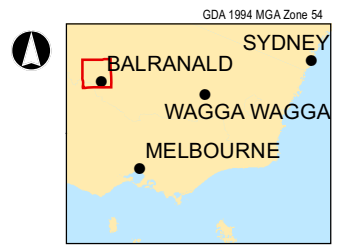
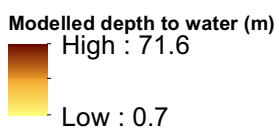
BAL2.0 TS2 opt29 modelled depth to water in Olney Formation at mining year 0 (end of construction)



I:\VESAI\Projects\VE238751\Technical\Spatial\mxd\BAL2.0_TS2_opt29\Depth to water\Rev2\BAL2.0_TS2_opt29_20170101_L9_DTW.mxd

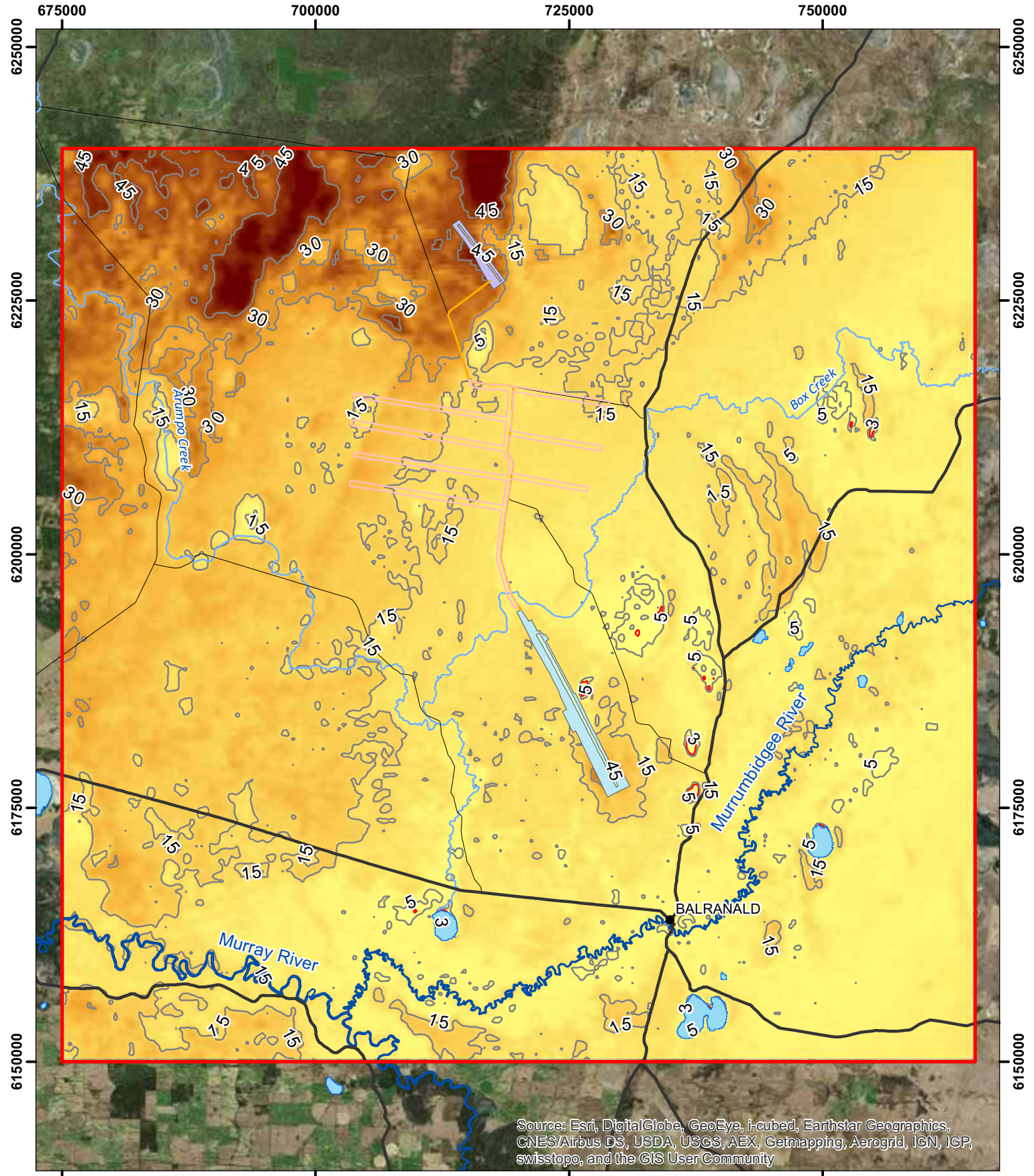


- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- BAL2.0 model domain
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)



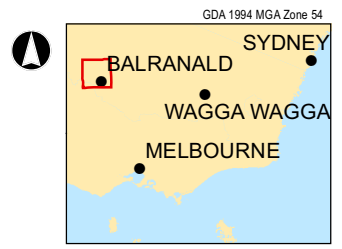
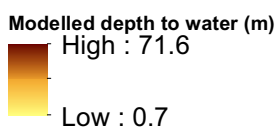
BAL2.0 TS2 opt29 modelled depth to water in Shepparton Formation at mining year 1





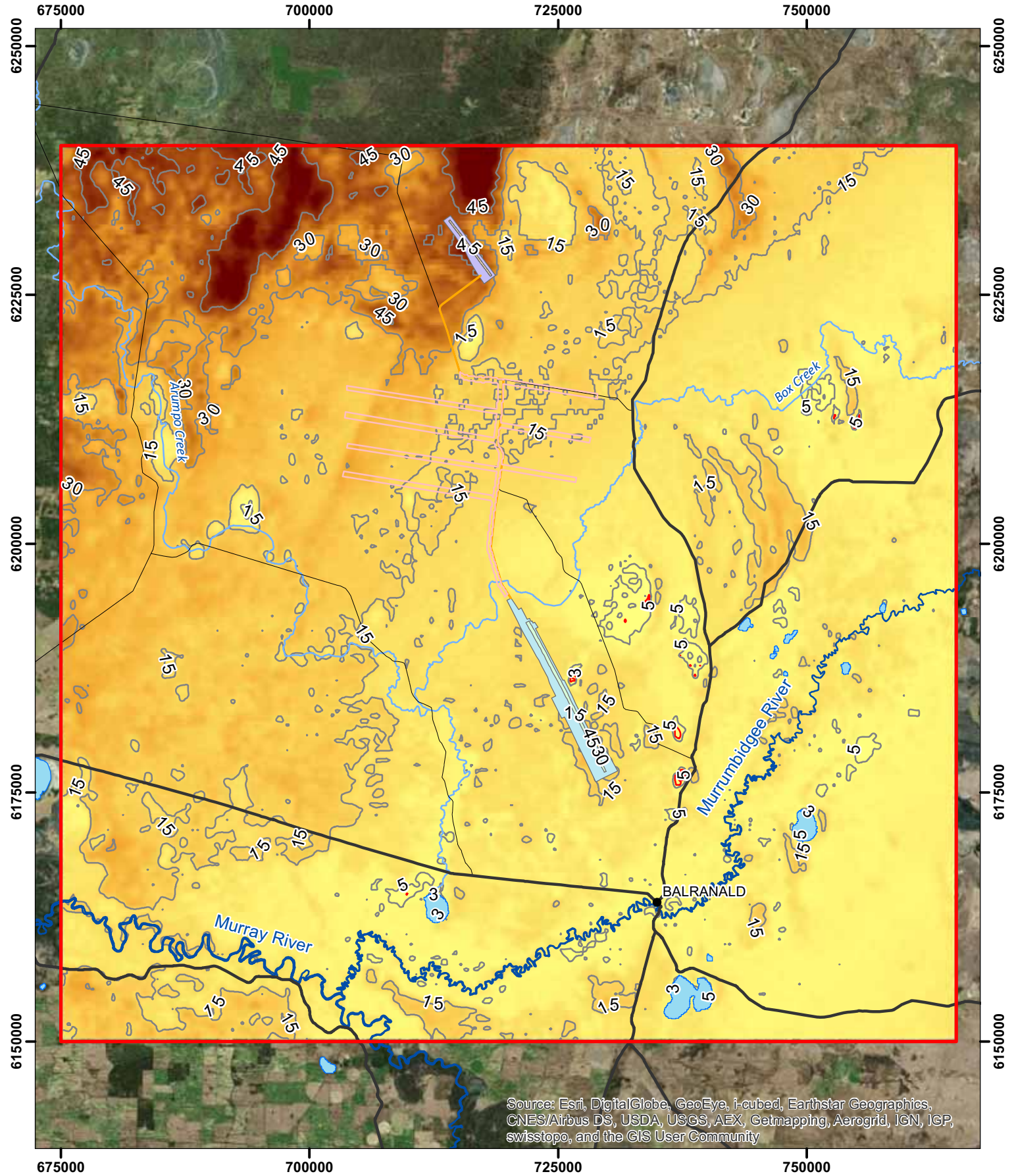
Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)



BAL2.0 TS2 opt29 modelled depth to water in LPS1 foreshore at mining year 1

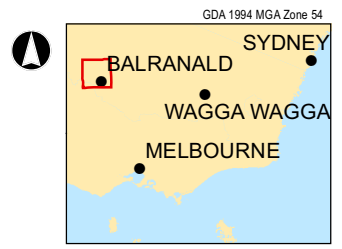




Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

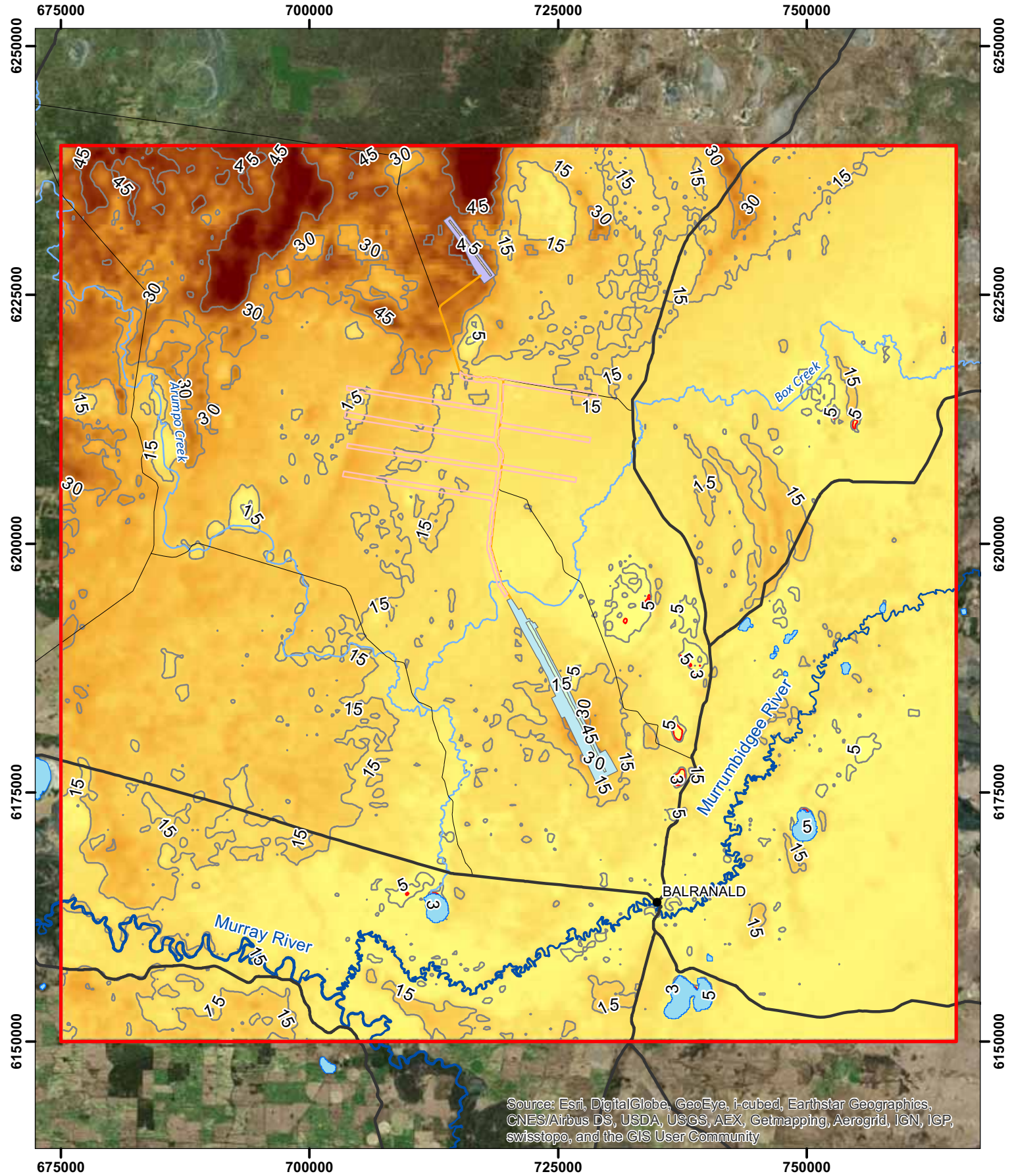
- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- BAL2.0 model domain
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)

Modelled depth to water (m)
 High : 71.6
 Low : 0.7



BAL2.0 TS2 opt29 modelled depth to water in Shepparton Formation at mining year 2

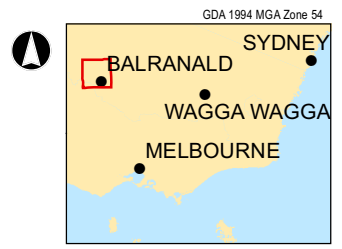




Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

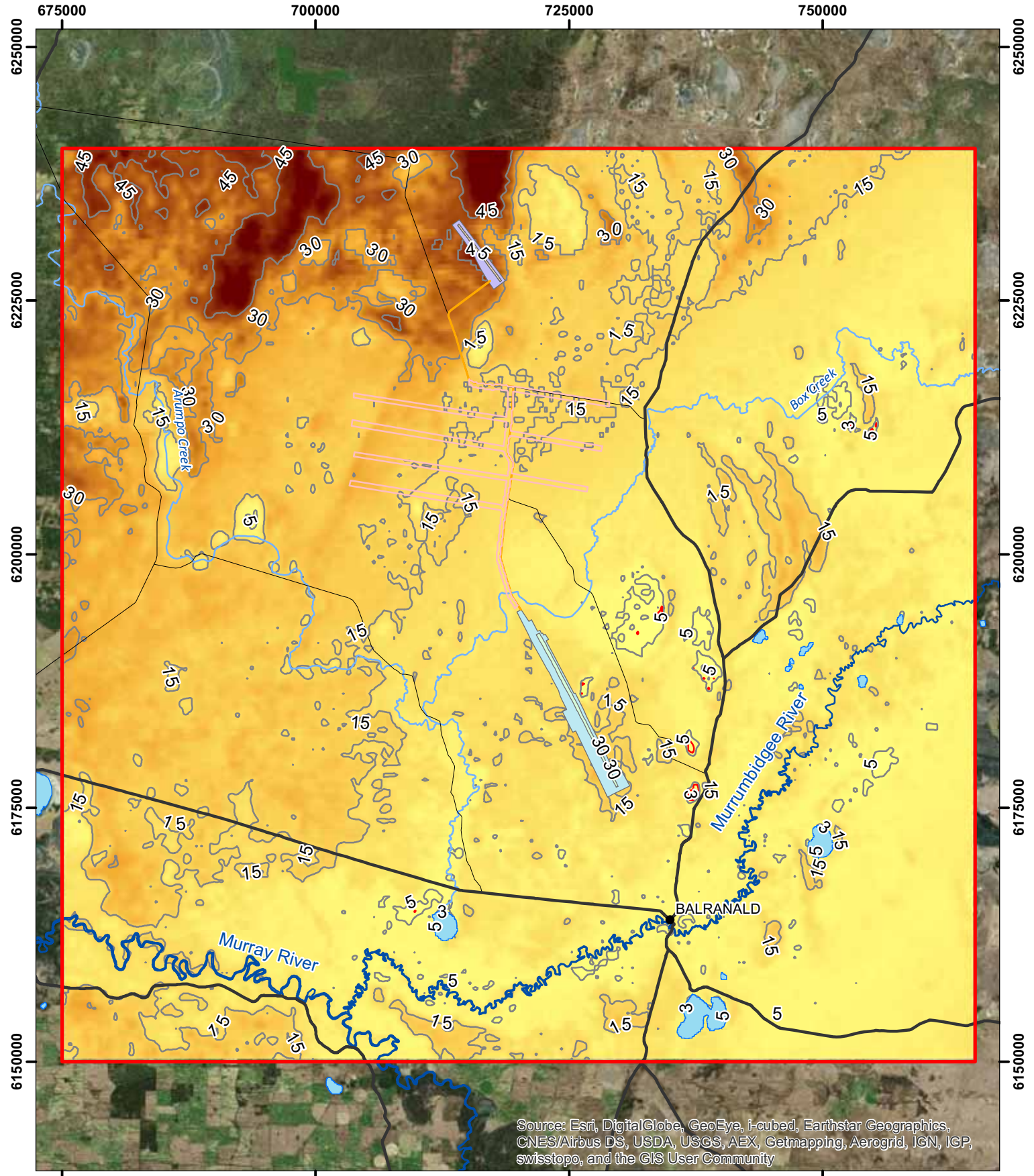
- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- BAL2.0 model domain
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)

Modelled depth to water (m)
 High : 71.6
 Low : 0.7



BAL2.0 TS2 opt29 modelled depth to water in LPS1 foreshore at mining year 2

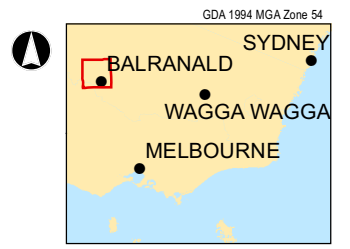
\\VESAI\Projects\VE238751\Technical\Spatial\mxd\BAL2.0_TS2_opt29\Depth to water\Rev2\BAL2.0_TS2_opt29_20190101_L3_DTW.mxd



Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

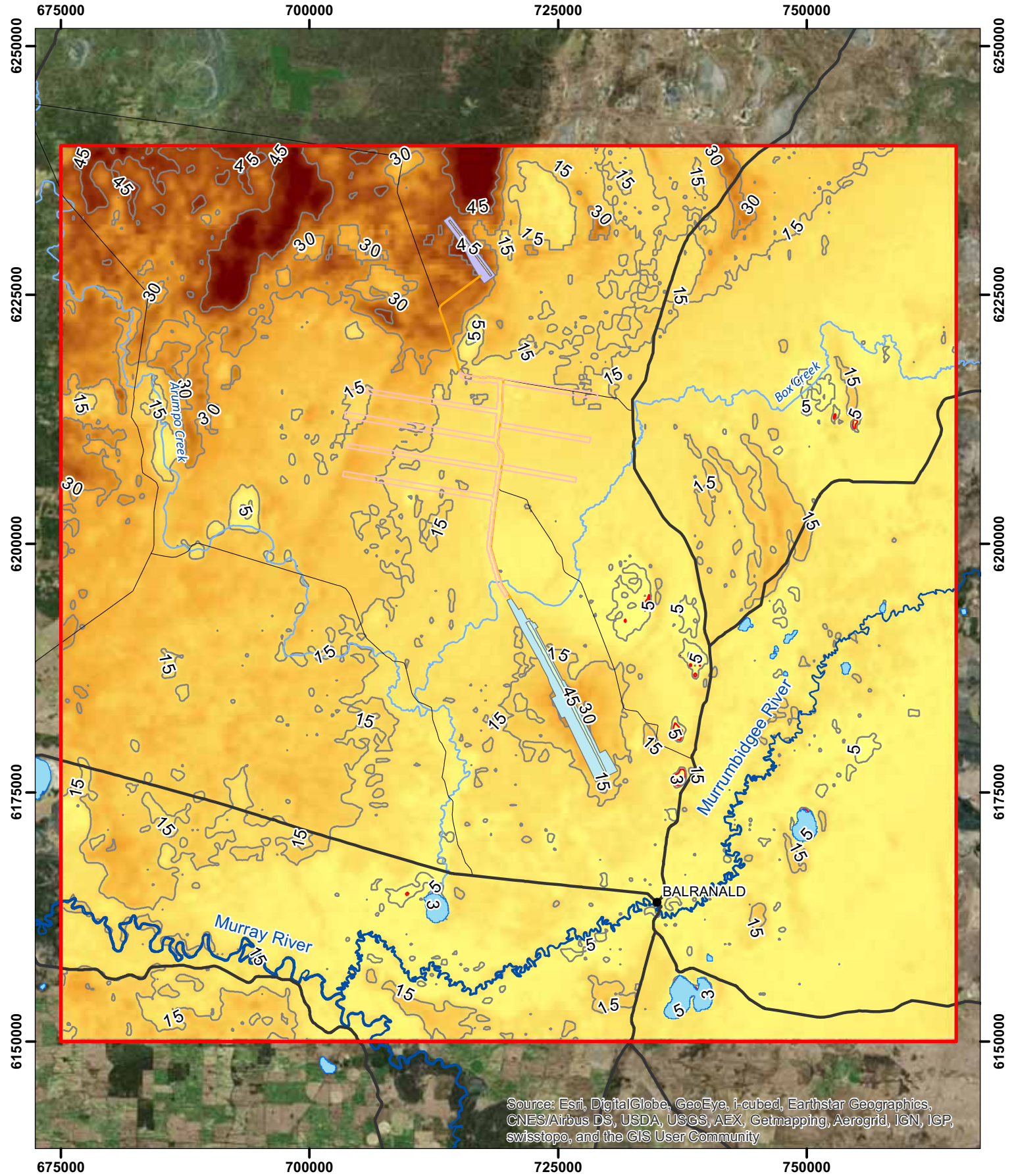
- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)

Modelled depth to water (m)
 High : 71.6
 Low : 0.7



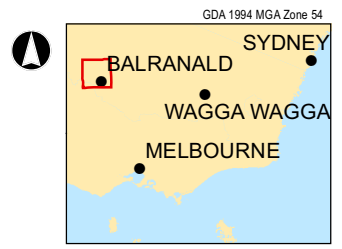
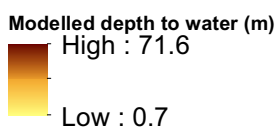
BAL2.0 TS2 opt29 modelled depth to water in Shepparton Formation at mining year 3





Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

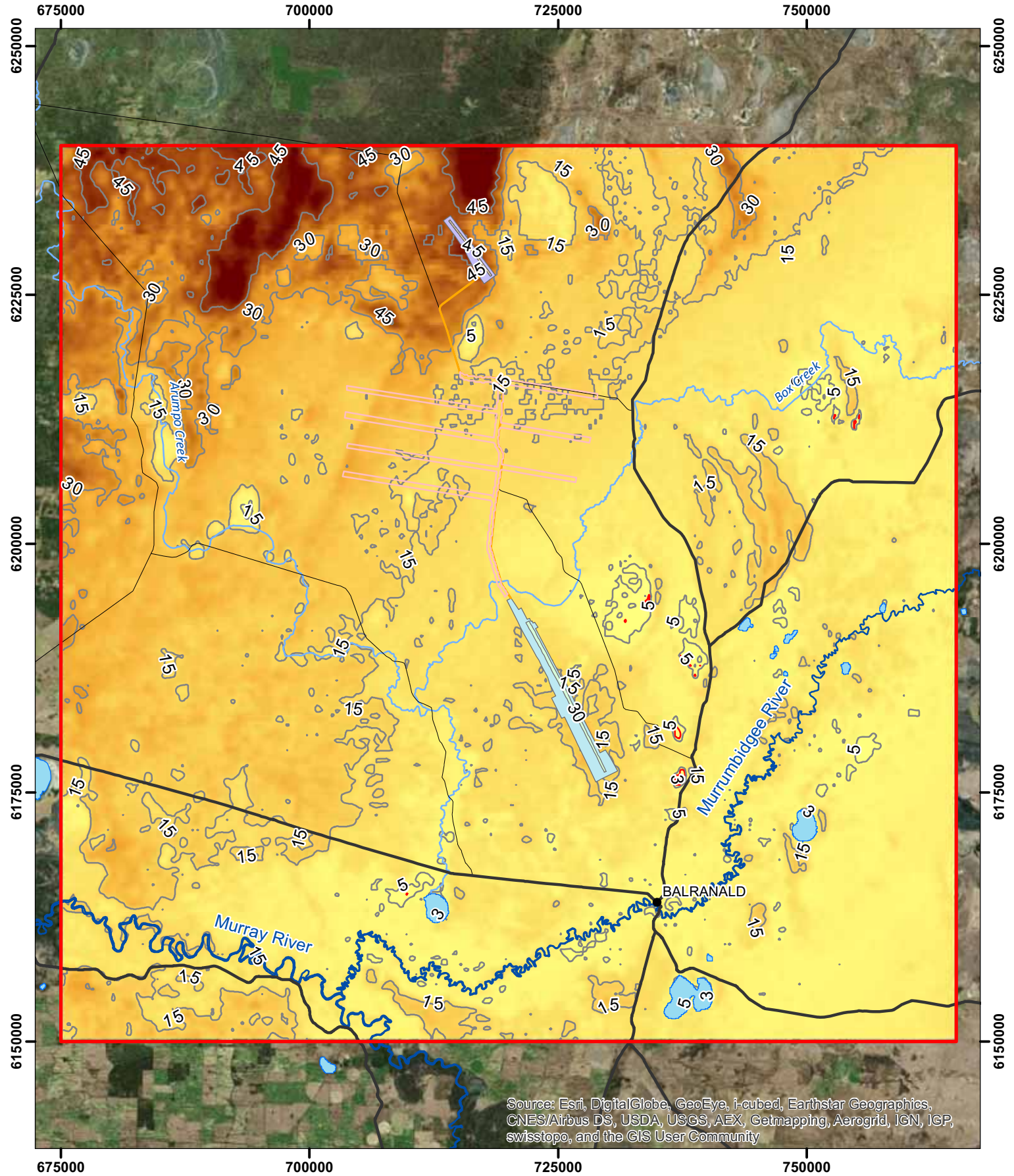
- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- BAL2.0 model domain
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)



BAL2.0 TS2 opt29 modelled depth to water in LPS1 foreshore at mining year 3



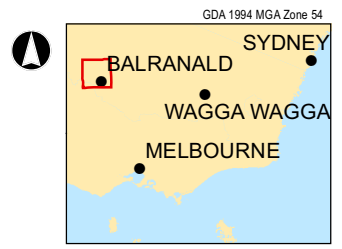
\\VESAI\Projects\VE238751\Technical\Spatial\mxd\BAL2.0_TS2_opt29\Depth to water\Rev2\BAL2.0_TS2_opt29_20200101_L3_DTW.mxd



Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

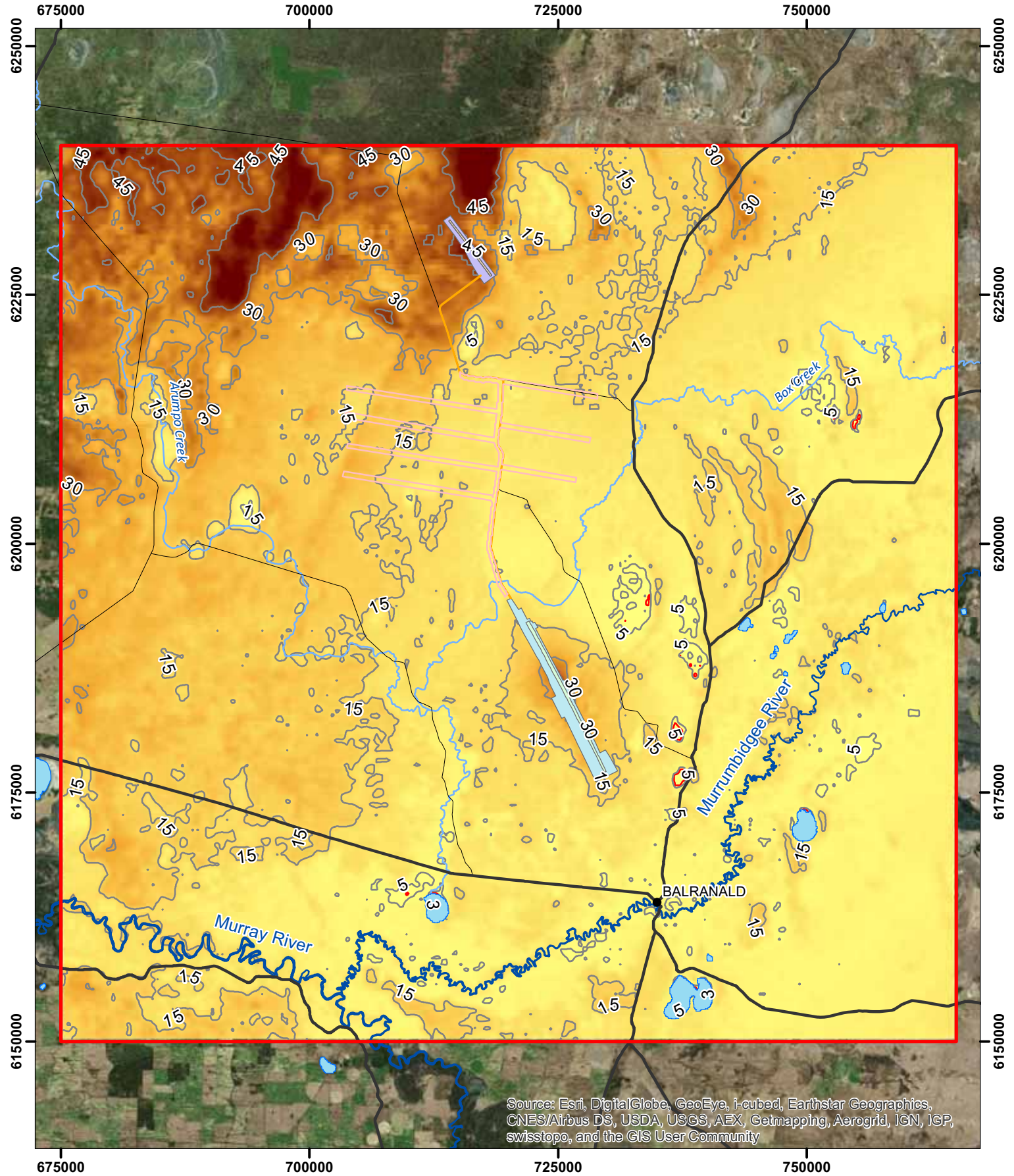
- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- BAL2.0 model domain
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)

Modelled depth to water (m)
 High : 71.6
 Low : 0.7



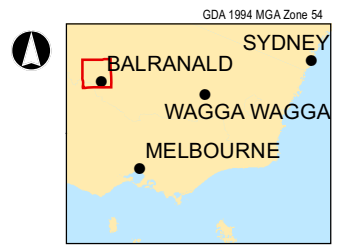
BAL2.0 TS2 opt29 modelled depth to water in Shepparton Formation at mining year 4





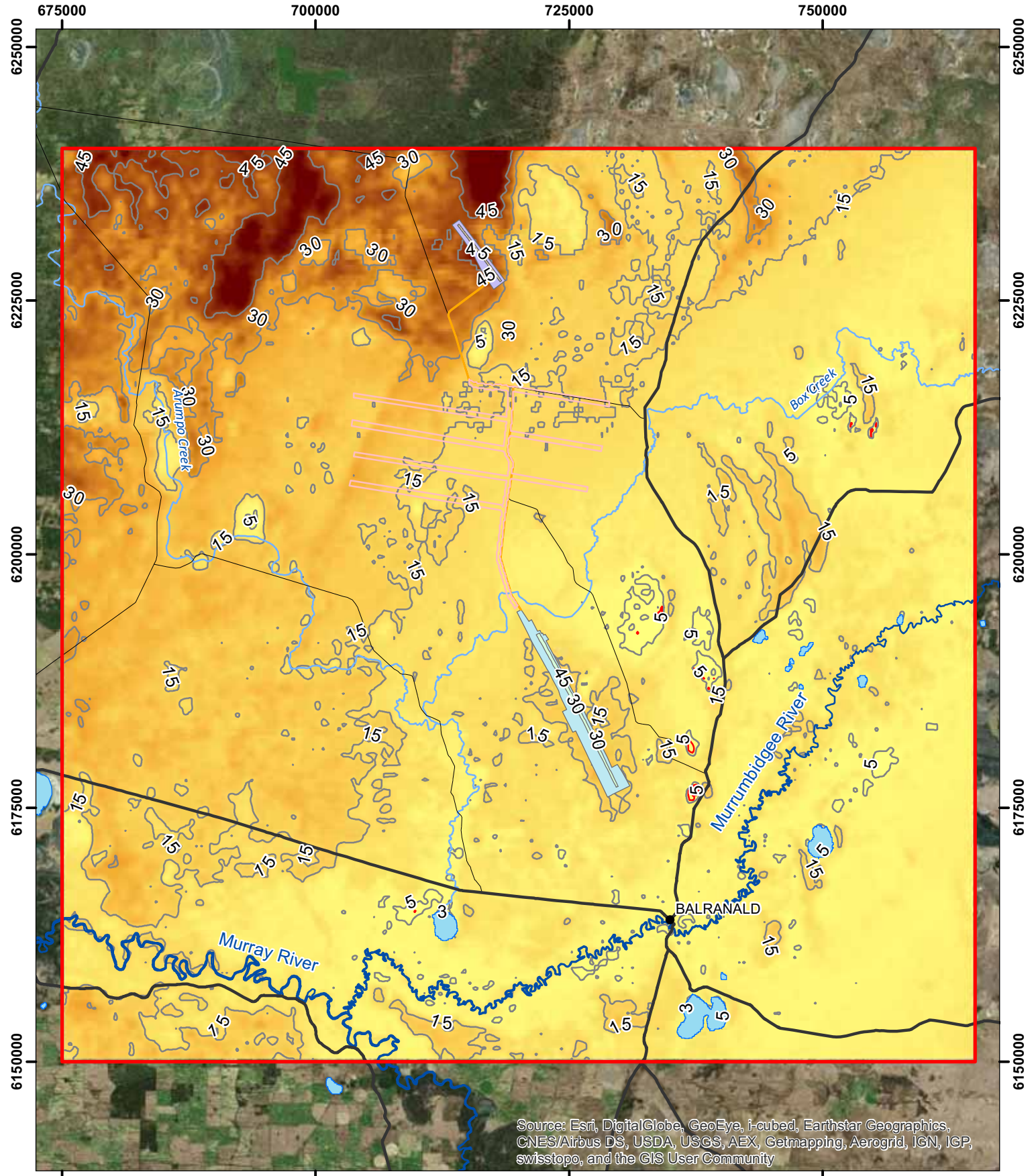
- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- BAL2.0 model domain
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)

Modelled depth to water (m)
 High : 71.6
 Low : 0.7



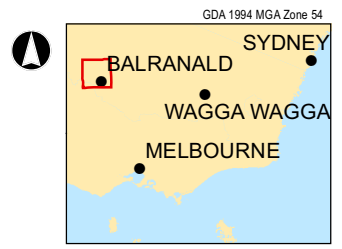
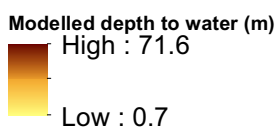
BAL2.0 TS2 opt29 modelled depth to water in LPS1 foreshore at mining year 4

\\VESAI\Projects\VE238751\Technical\Spatial\mxd\BAL2.0_TS2_opt29\Depth to water\Rev2\BAL2.0_TS2_opt29_20210101_L3_DTW.mxd

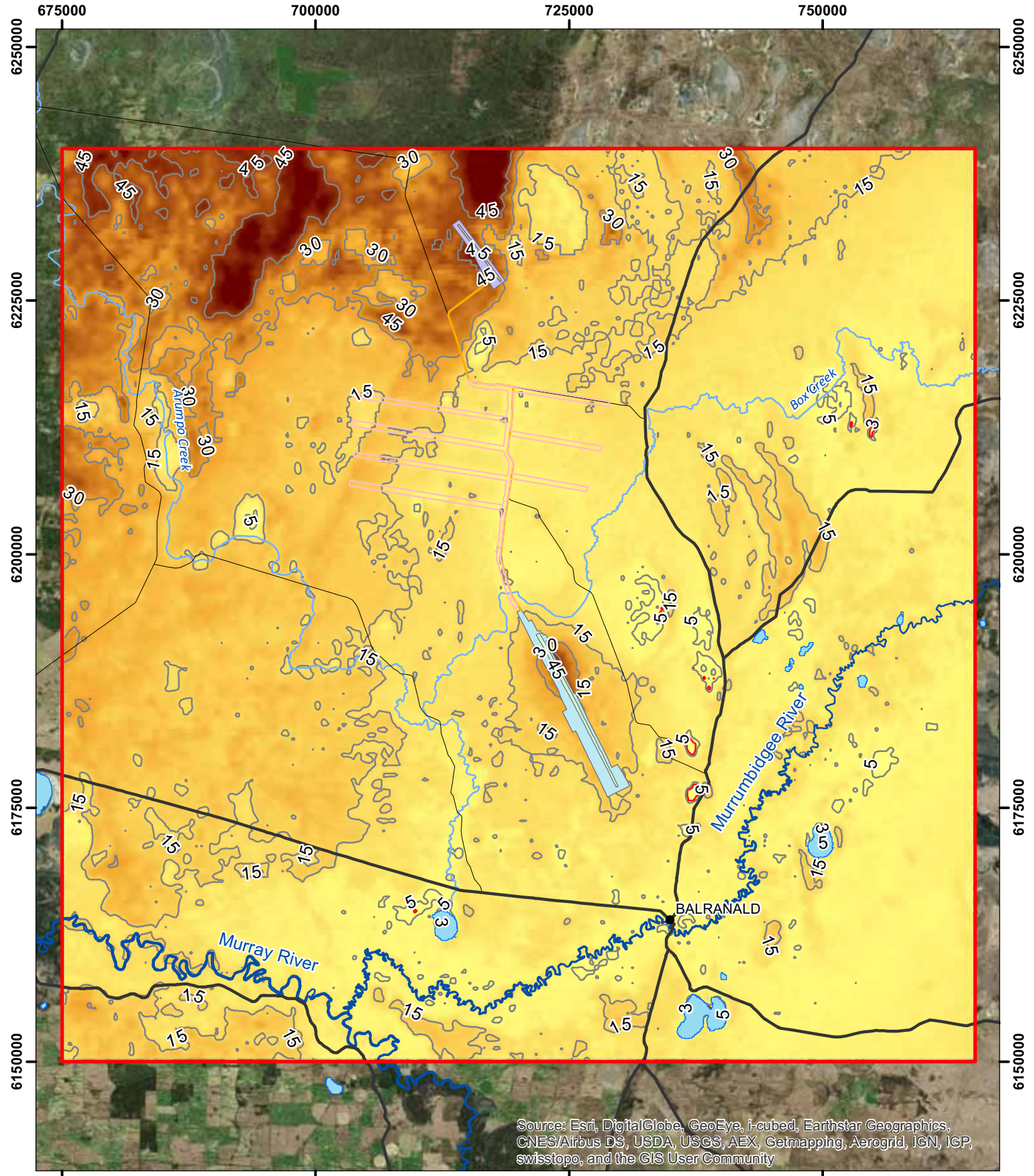


Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- BAL2.0 model domain
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)



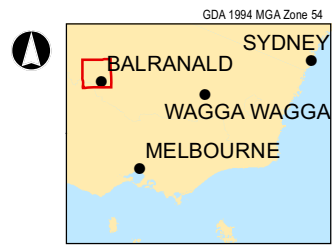
BAL2.0 TS2 opt29 modelled depth to water in Shepparton Formation at mining year 5



Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

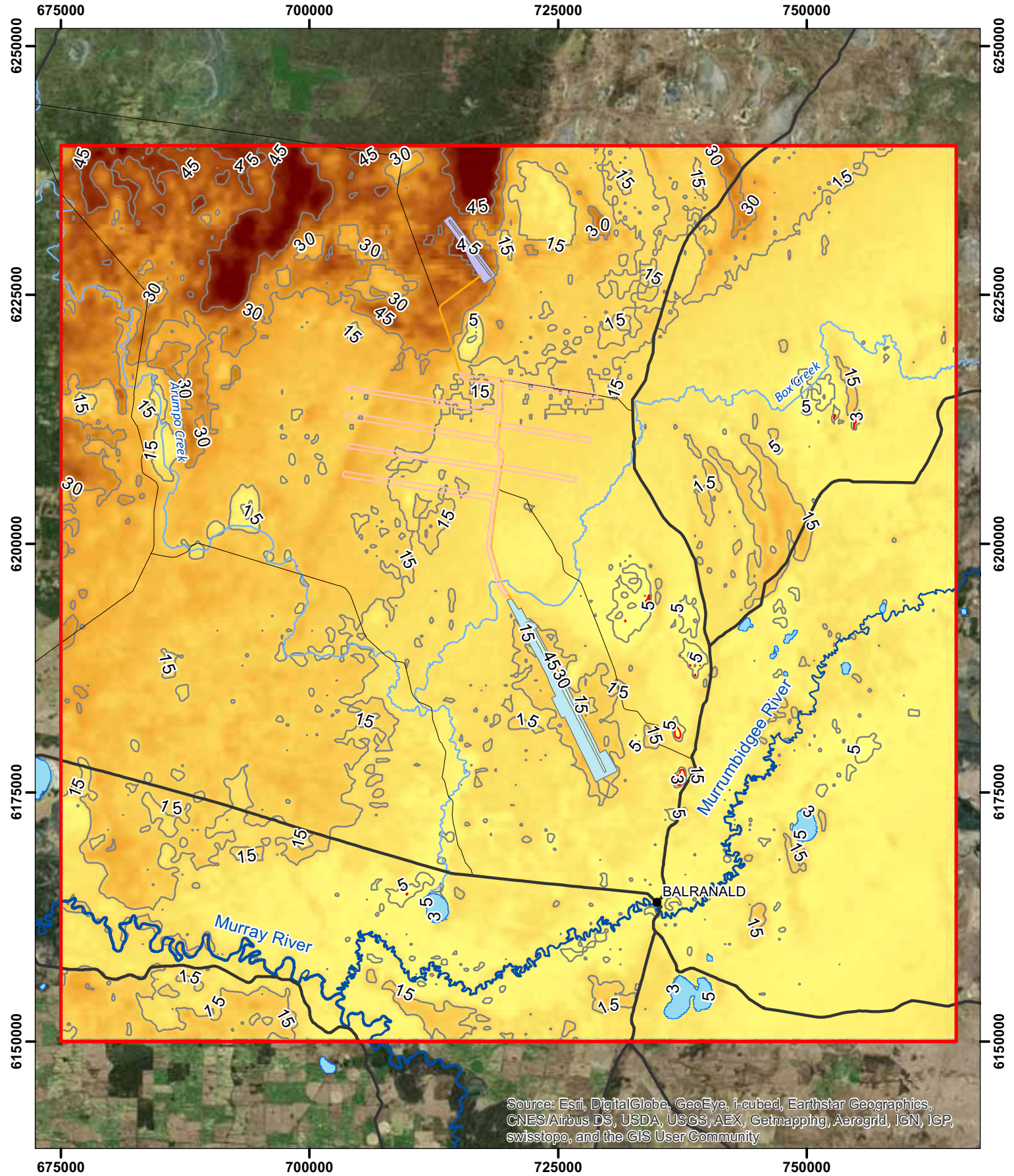
- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)

Modelled depth to water (m)
 High : 71.6
 Low : 0.7



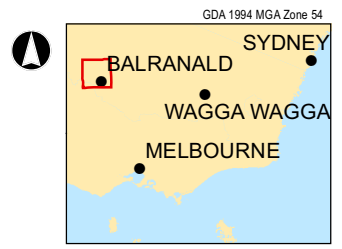
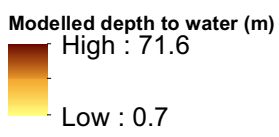
BAL2.0 TS2 opt29 modelled depth to water in LPS1 foreshore at mining year 5





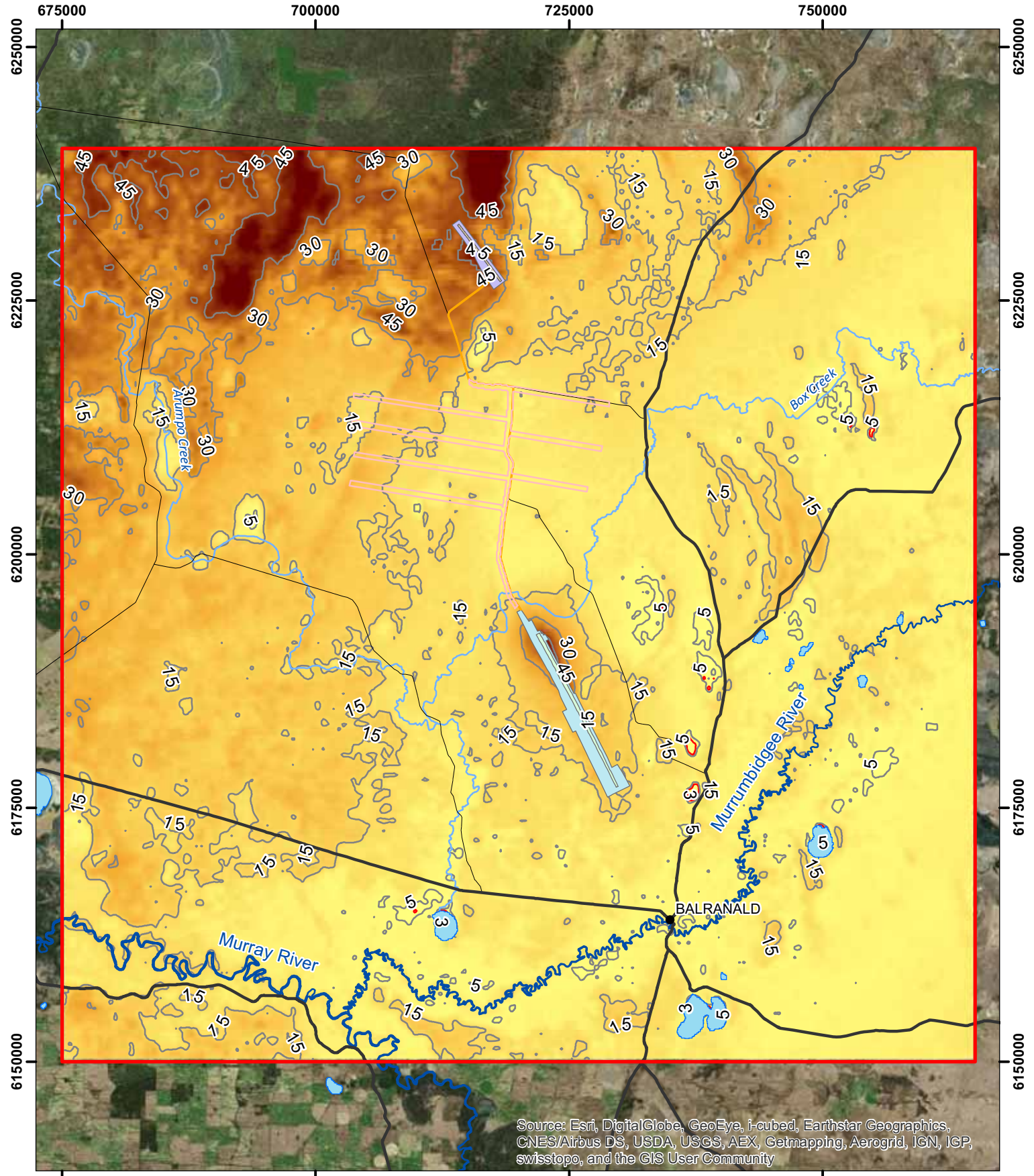
Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)
- BAL2.0 model domain



BAL2.0 TS2 opt29 modelled depth to water in Shepparton Formation at mining year 6

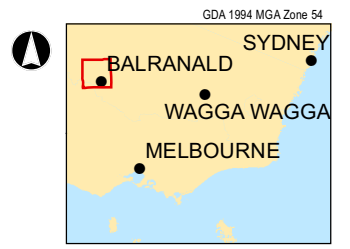




Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

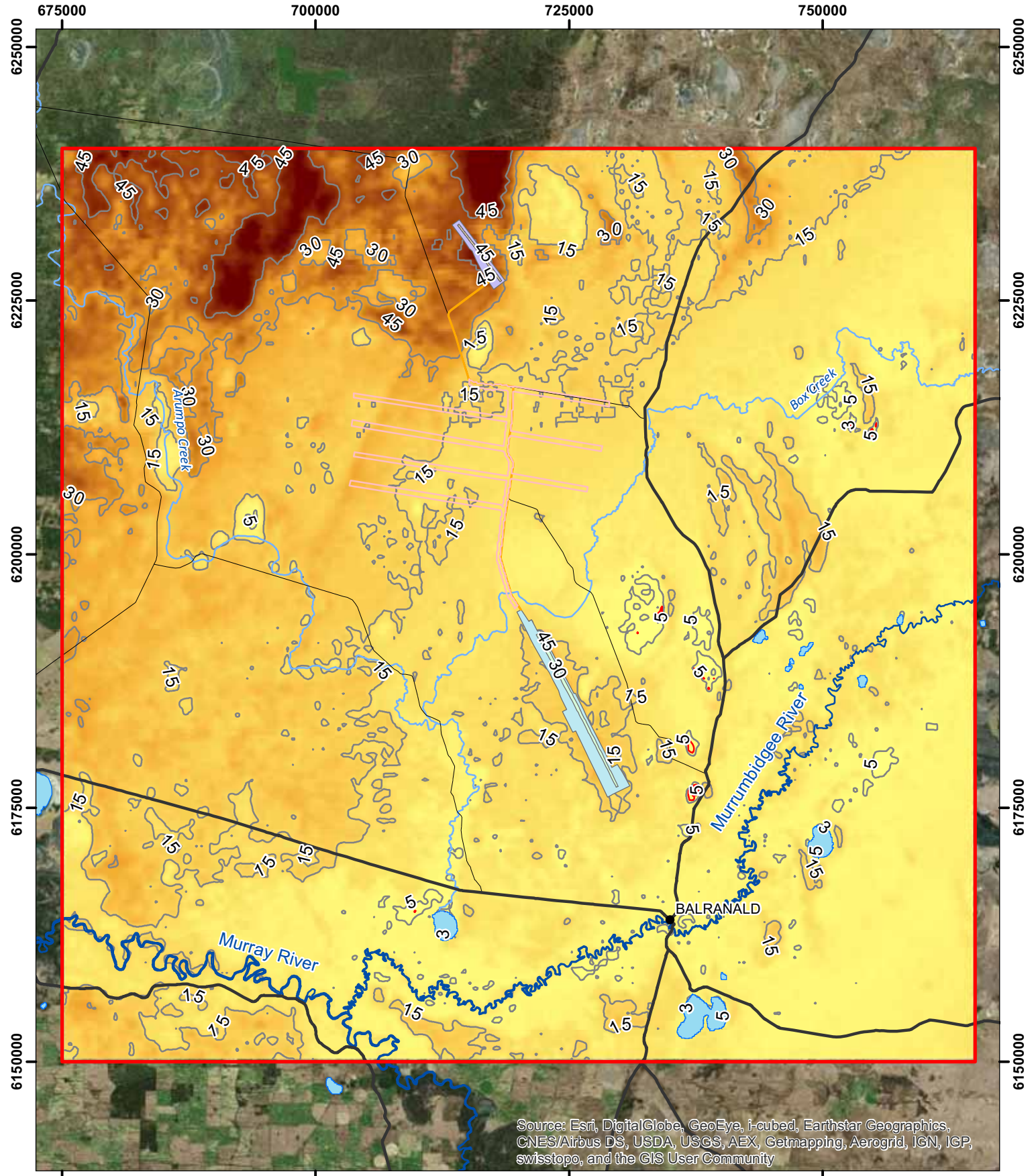
- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)

Modelled depth to water (m)
 High : 71.6
 Low : 0.7



BAL2.0 TS2 opt29 modelled depth to water in LPS1 foreshore at mining year 6

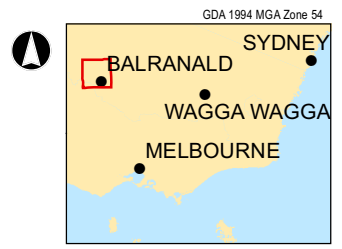
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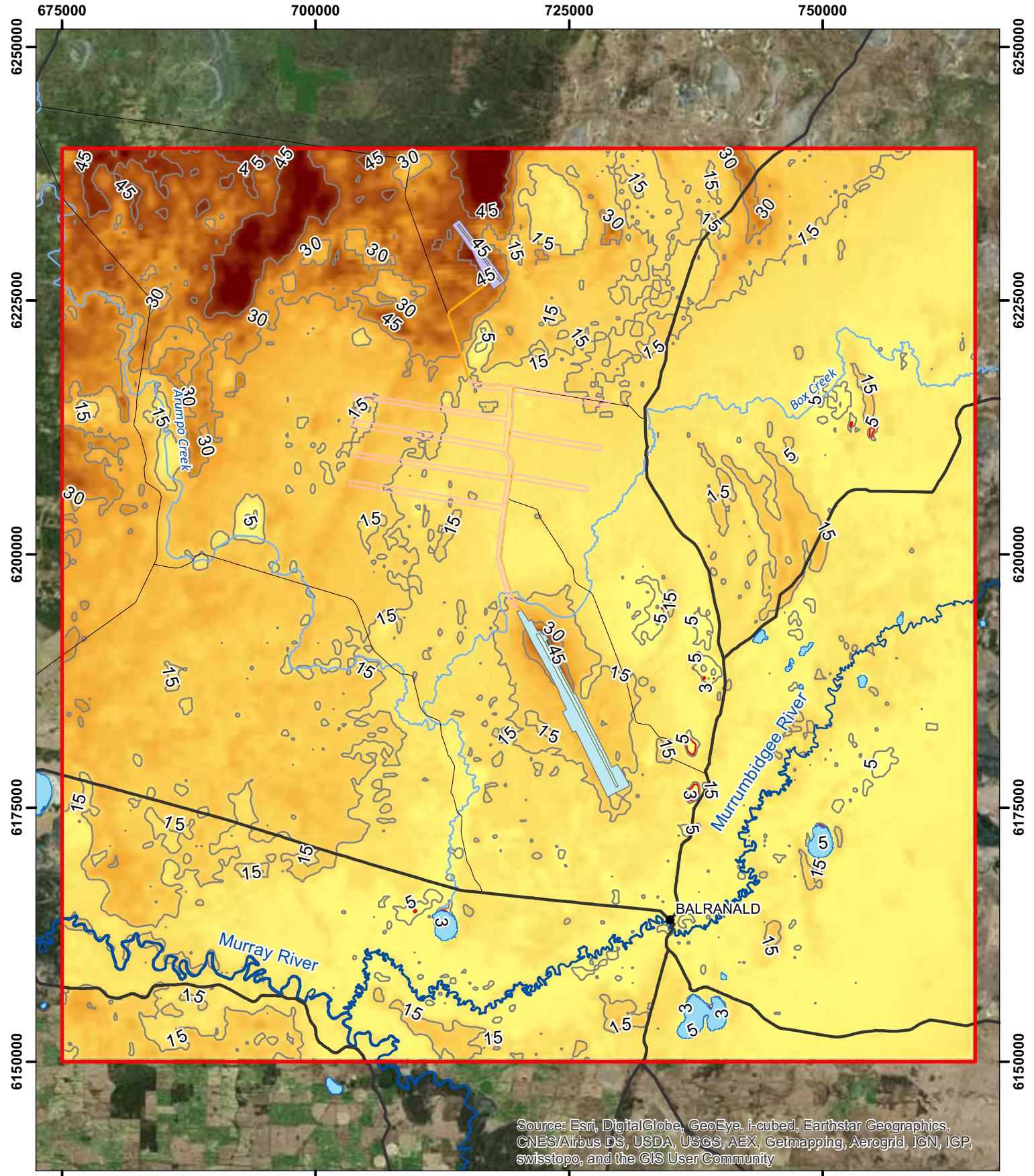
Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- BAL2.0 model domain
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)

Modelled depth to water (m)
 High : 71.6
 Low : 0.7

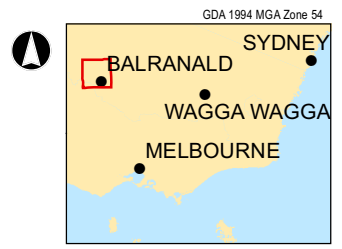
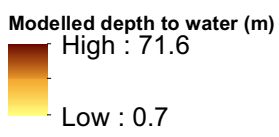


BAL2.0 TS2 opt29 modelled depth to water in Shepparton Formation at mining year 6.3



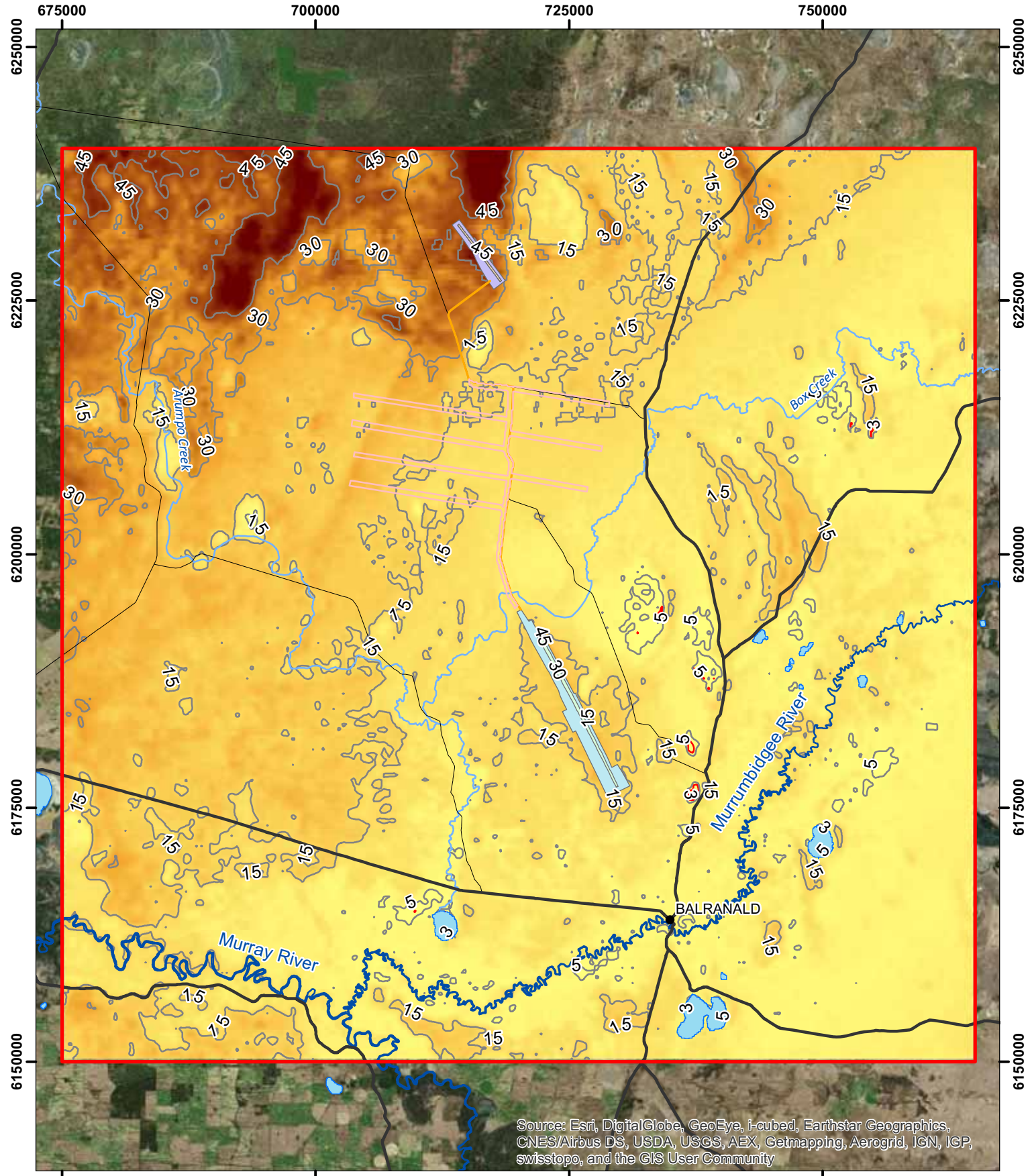
Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)



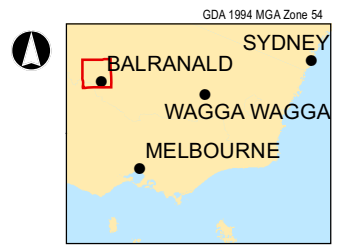
BAL2.0 TS2 opt29 modelled depth to water in LPS1 foreshore at mining year 6.3





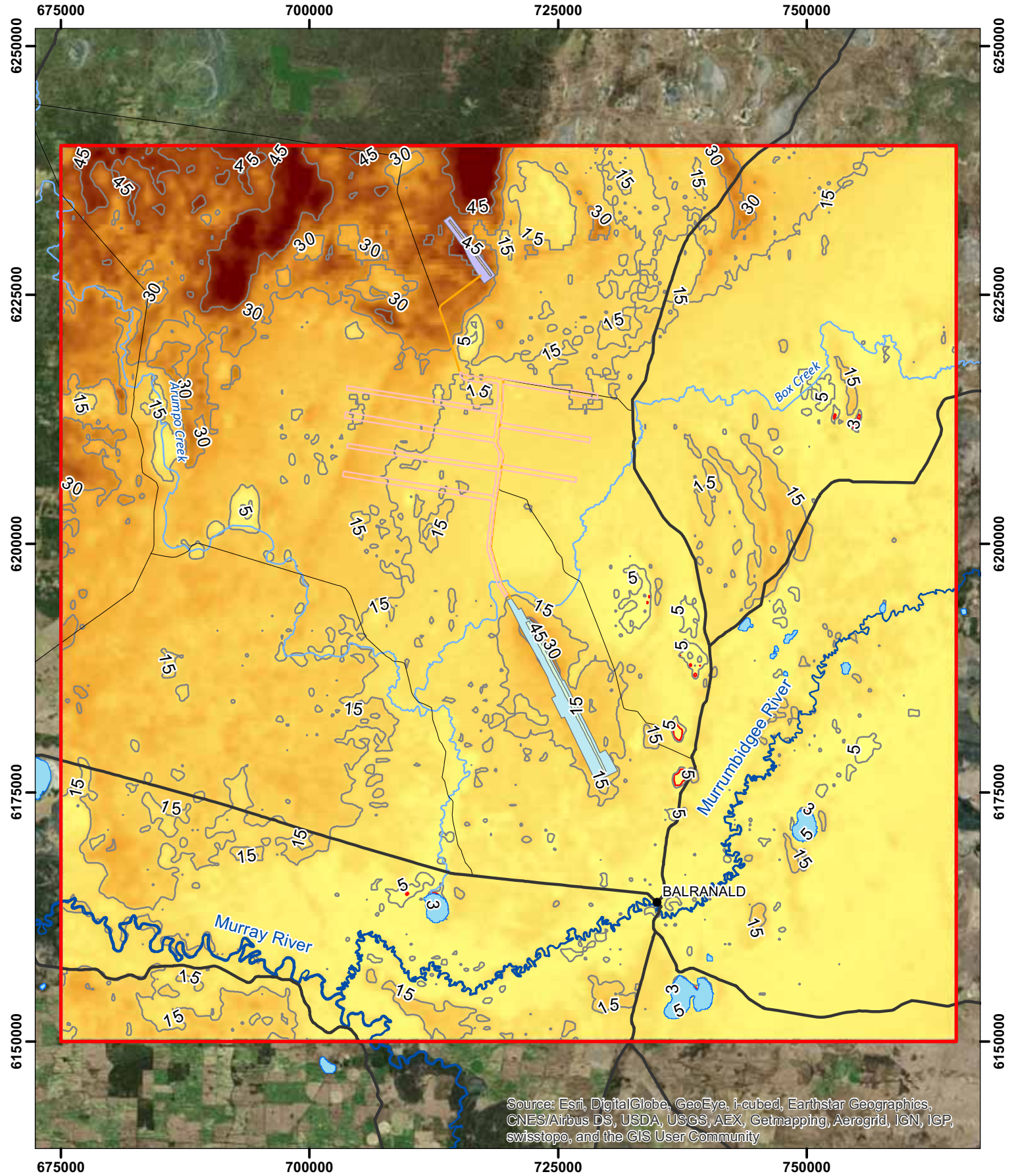
- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- BAL2.0 model domain
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)

Modelled depth to water (m)
 High : 71.6
 Low : 0.7



BAL2.0 TS2 opt29 modelled depth to water in Shepparton Formation at mining year 7

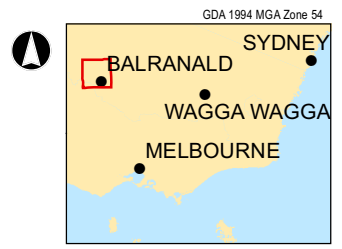




Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

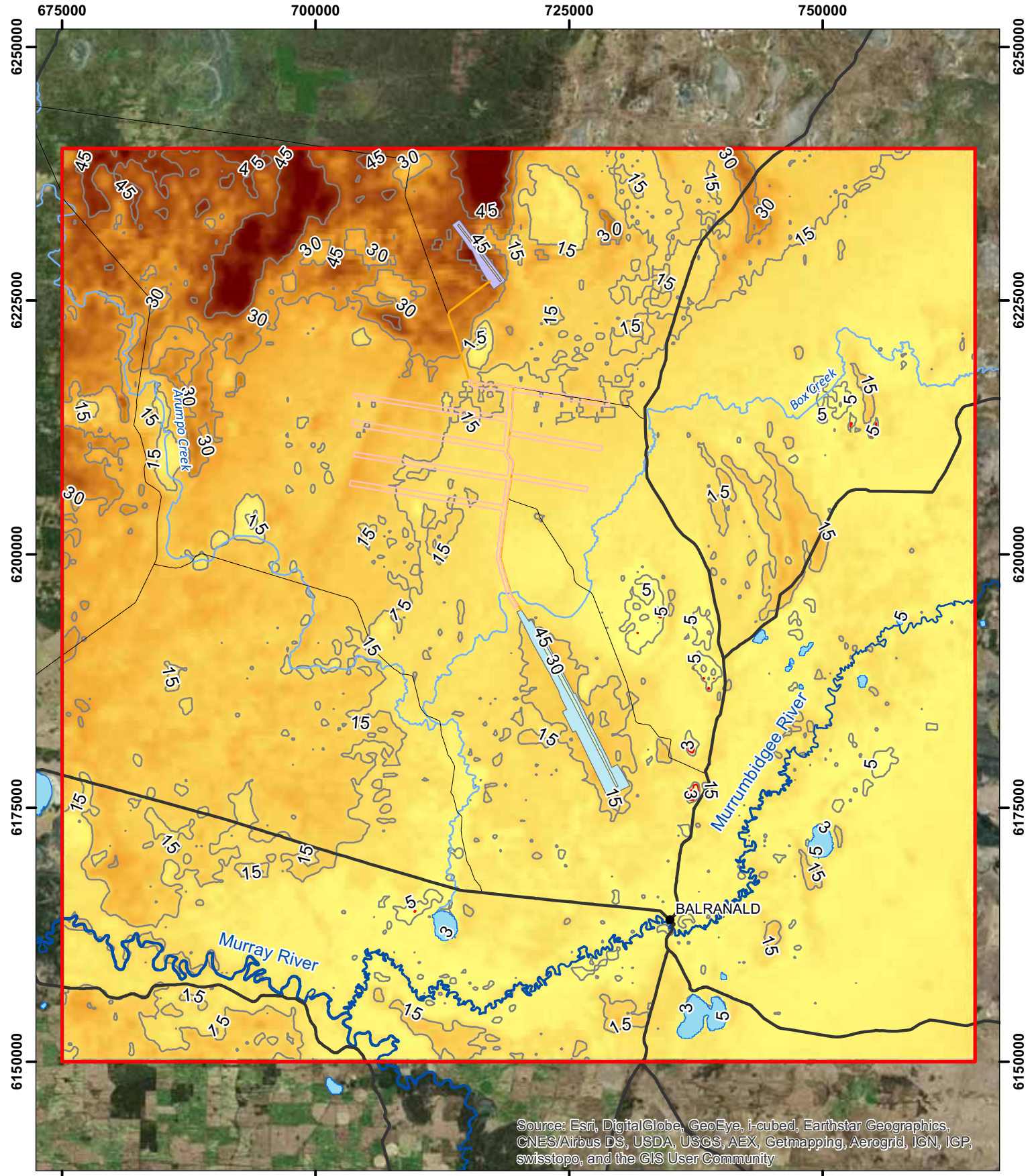
- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)
- BAL2.0 model domain

Modelled depth to water (m)
 High : 71.6
 Low : 0.7



BAL2.0 TS2 opt29 modelled depth to water in LPS1 foreshore at mining year 7

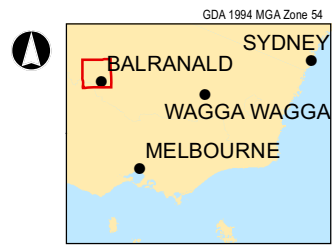




Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

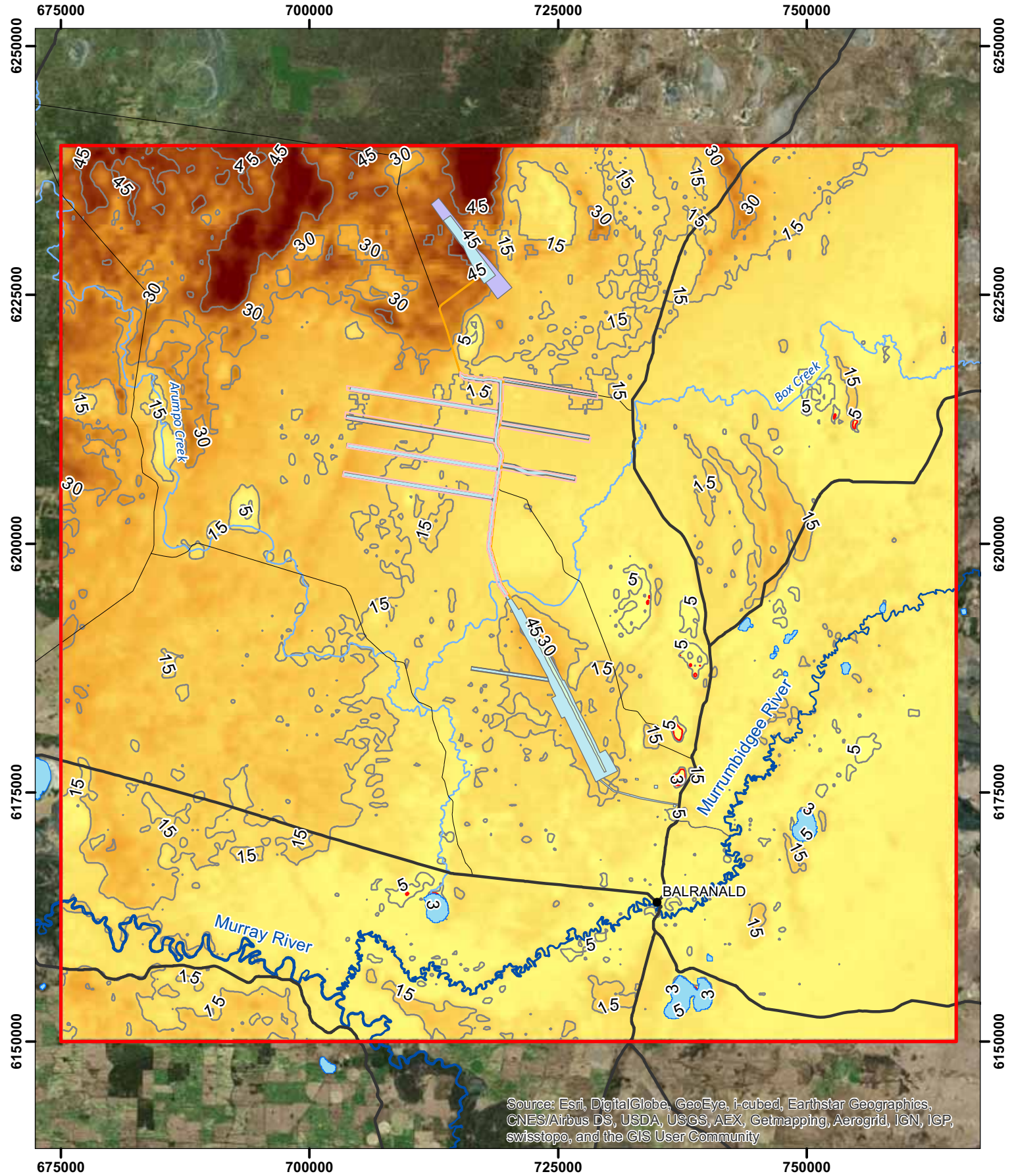
- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- BAL2.0 model domain
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)

Modelled depth to water (m)
 High : 71.6
 Low : 0.7



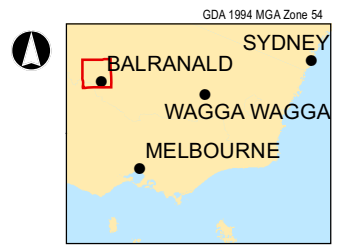
BAL2.0 TS2 opt29 modelled depth to water in Shepparton Formation at mining year 7.4





- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- BAL2.0 model domain
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)

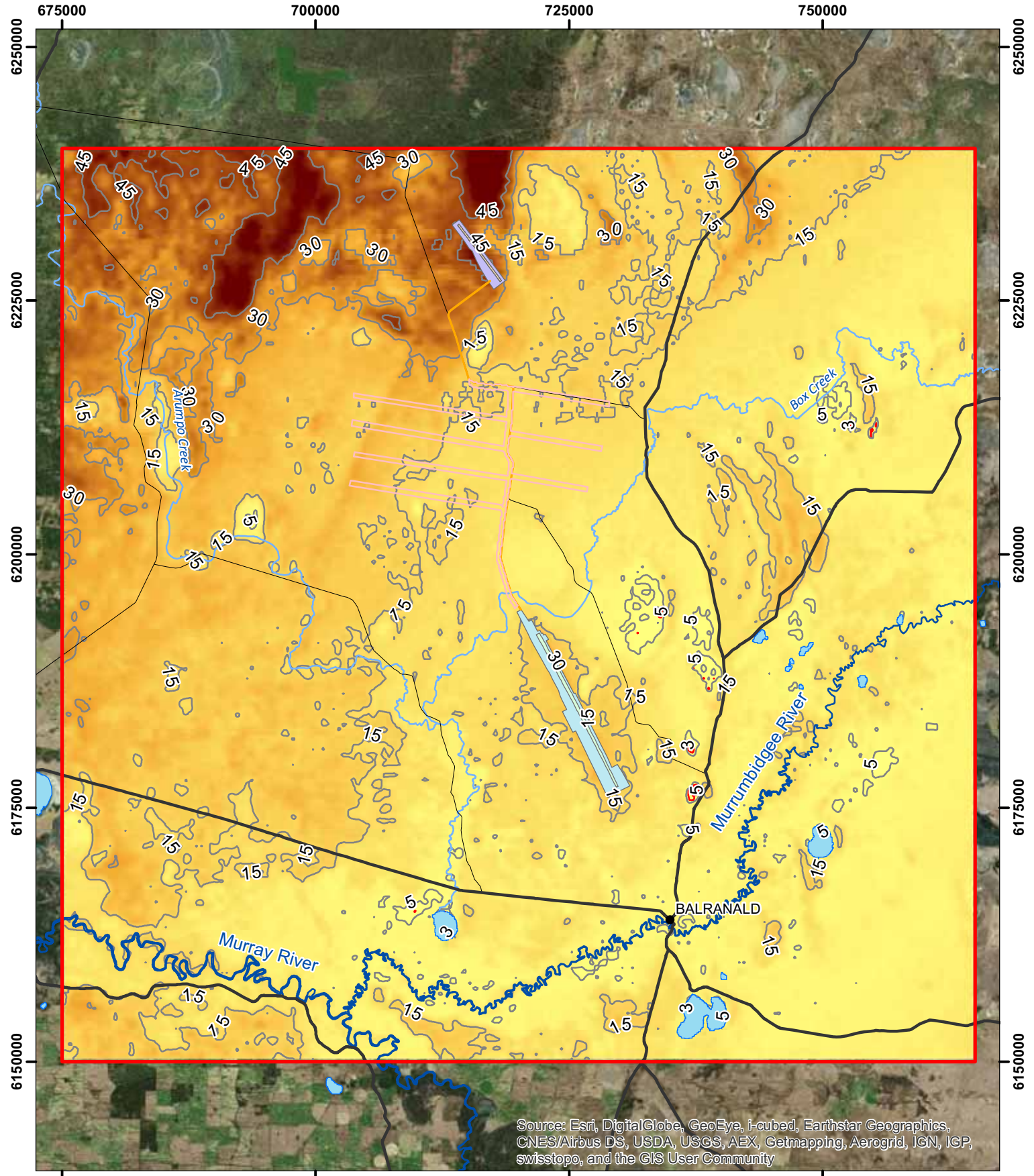
Modelled depth to water (m)
 High : 71.6
 Low : 0.7



BAL2.0 TS2 opt29 modelled depth to water in LPS1 foreshore at mining year 7.4



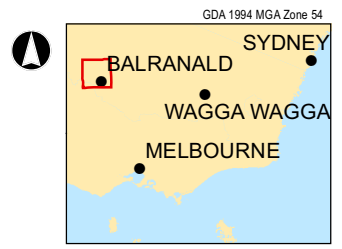
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

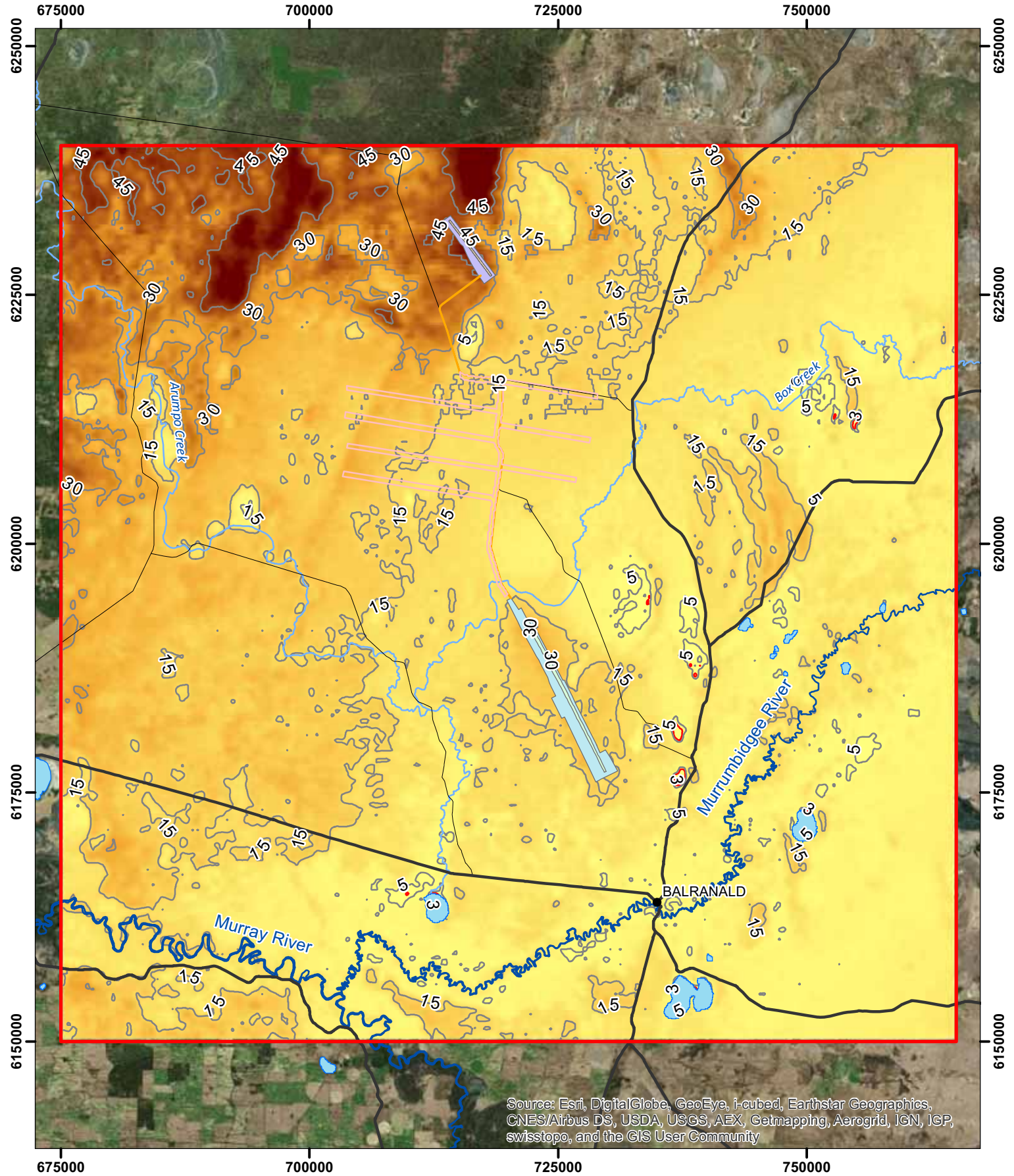
- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)

Modelled depth to water (m)
 High : 71.6
 Low : 0.7



BAL2.0 TS2 opt29 modelled depth to water in Shepparton Formation at mining year 8

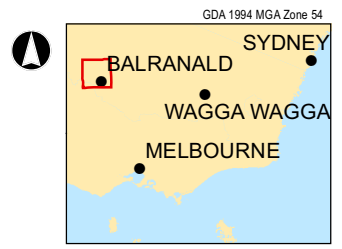
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

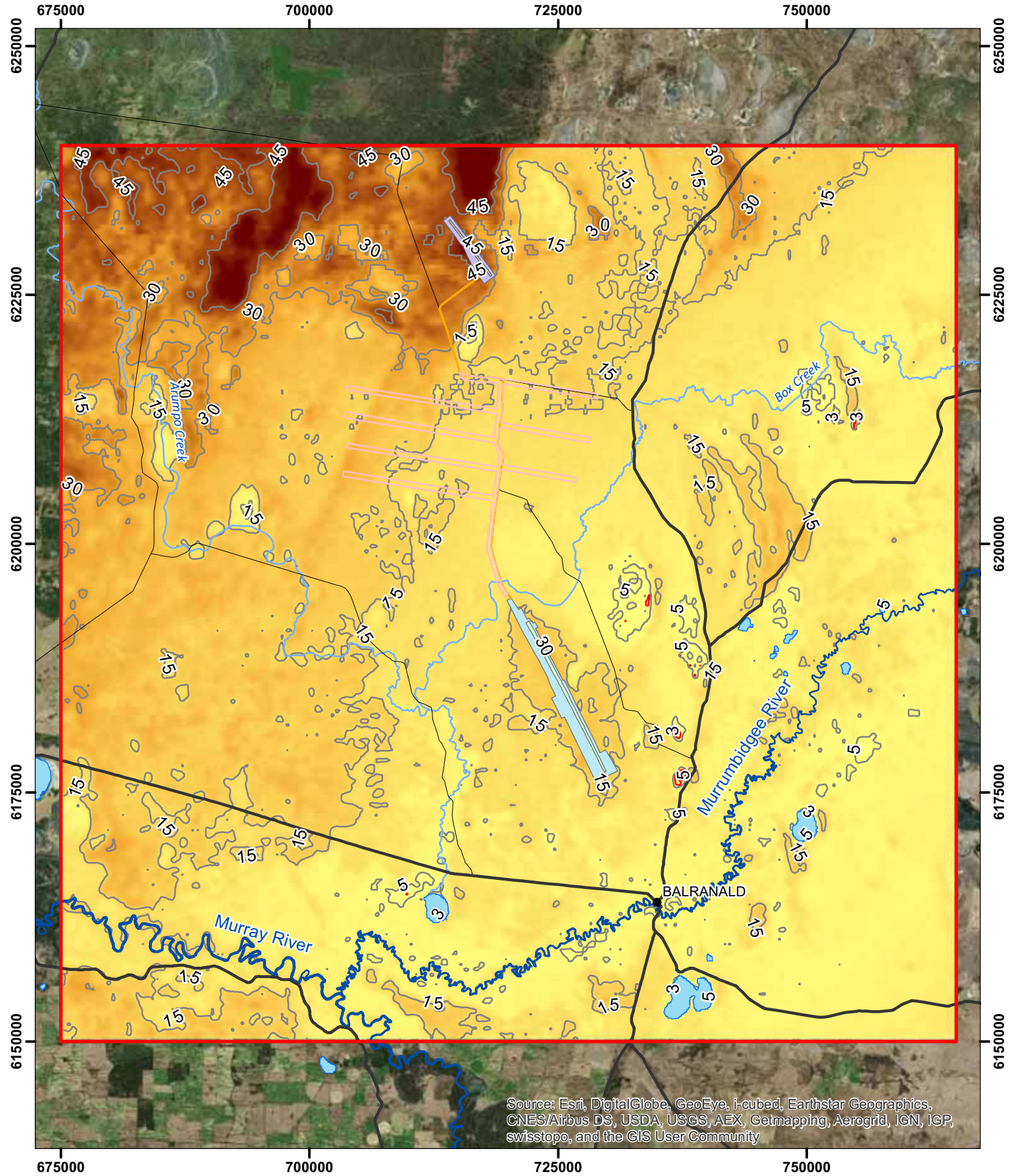
- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- BAL2.0 model domain
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)

Modelled depth to water (m)
 High : 71.6
 Low : 0.7



BAL2.0 TS2 opt29 modelled depth to water in LPS1 foreshore at mining year 8

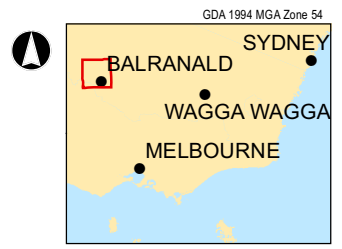
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

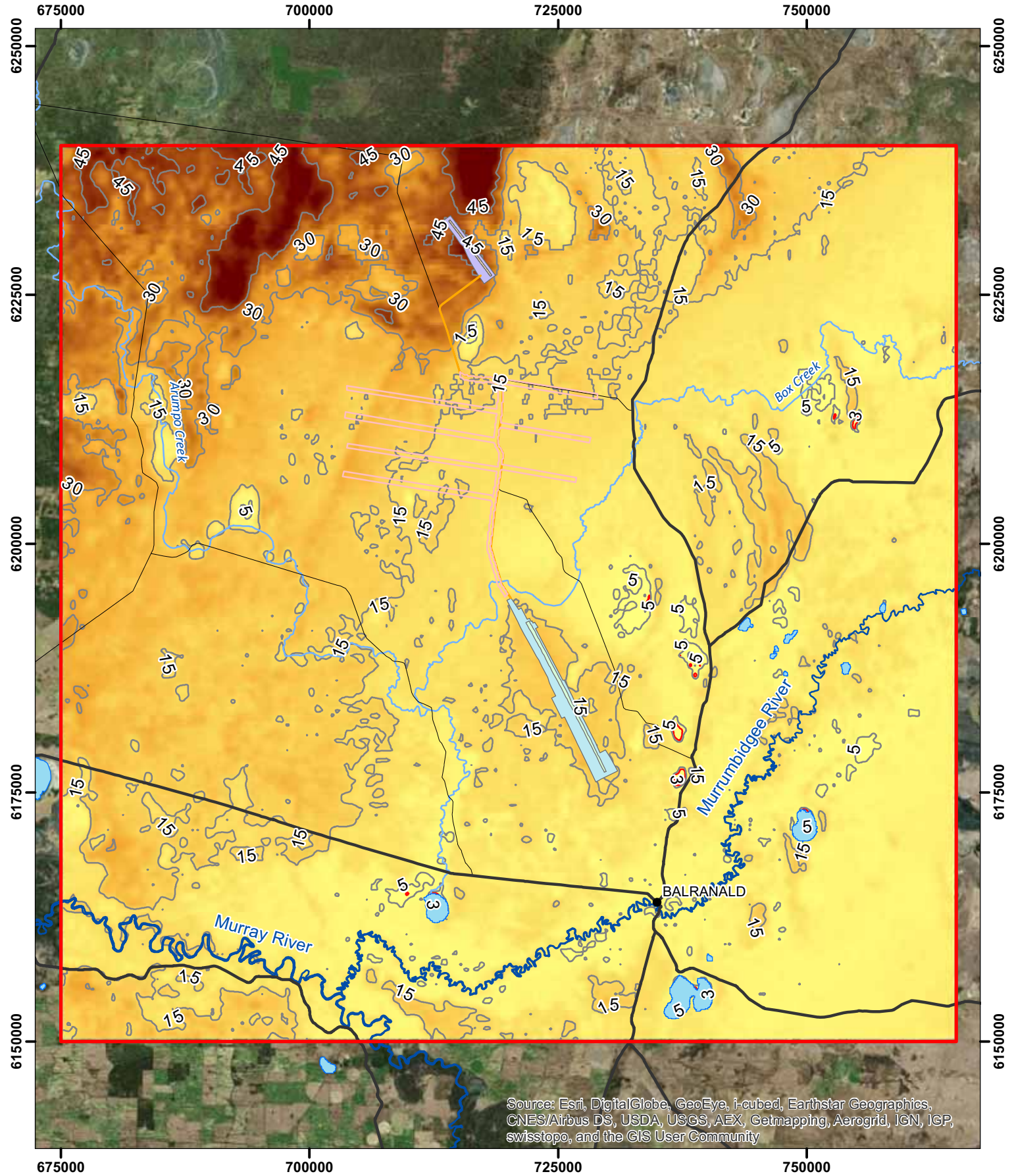
- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)

Modelled depth to water (m)
 High : 71.6
 Low : 0.7



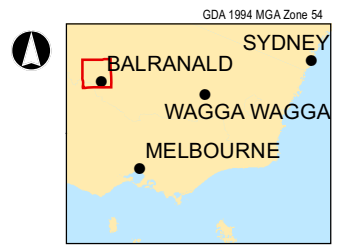
BAL2.0 TS2 opt29 modelled depth to water in Shepparton Formation 1 year post-mining

\\VESAI\Projects\VE238751\Technical\Spatial\mxd\BAL2.0_TS2_opt29\Depth to water\Rev2\BAL2.0_TS2_opt29_20260101_L1_DTW.mxd



- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- BAL2.0 model domain
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)

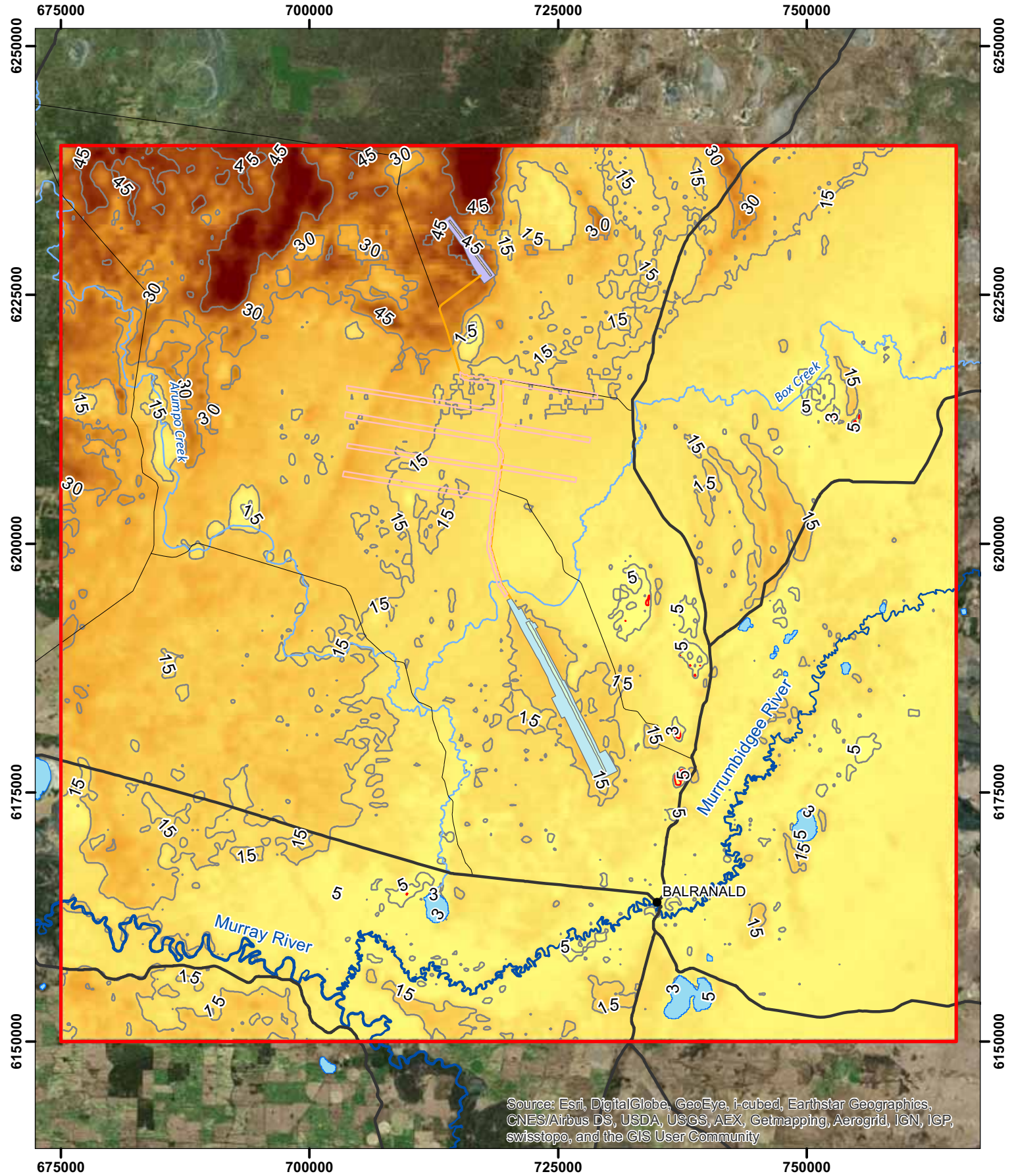
Modelled depth to water (m)
 High : 71.6
 Low : 0.7



BAL2.0 TS2 opt29 modelled depth to water in LPS1 foreshore 1 year post-mining



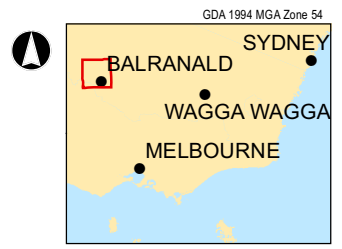
\\VESAI\Projects\VE238751\Technical\Spatial\mxd\BAL2_0_TS2_opt29\Depth to water\Rev2\BAL2_0_TS2_opt29_20260101_L3_DTW.mxd



Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

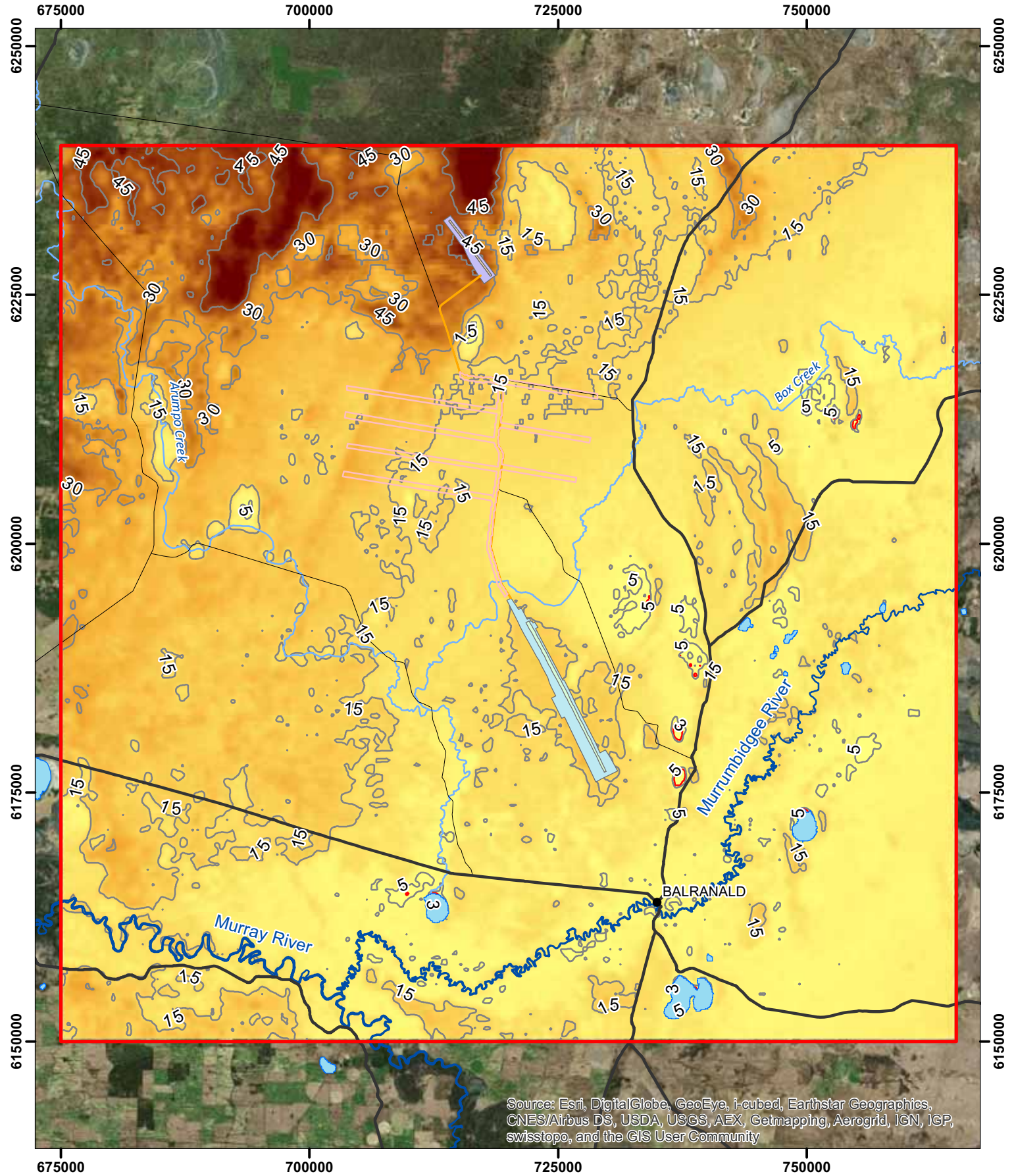
- Town
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- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- BAL2.0 model domain
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)

Modelled depth to water (m)
 High : 71.6
 Low : 0.7



BAL2.0 TS2 opt29 modelled depth to water in Shepparton Formation 5 years post-mining

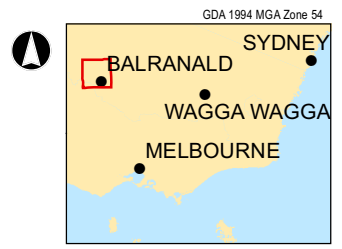




Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

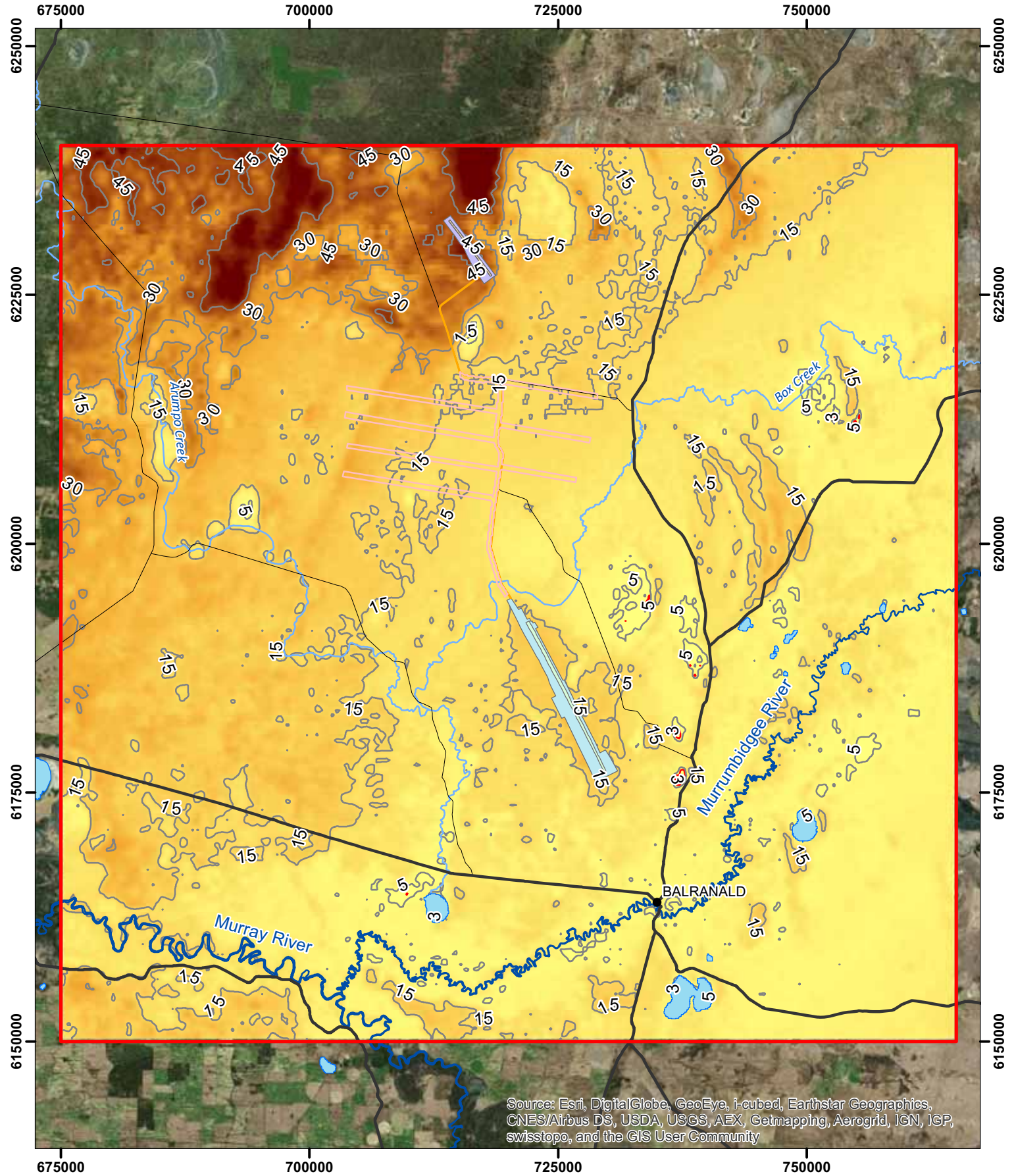
- Town
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- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- BAL2.0 model domain
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)

Modelled depth to water (m)
 High : 71.6
 Low : 0.7



BAL2.0 TS2 opt29 modelled depth to water in LPS1 foreshore 5 years post-mining

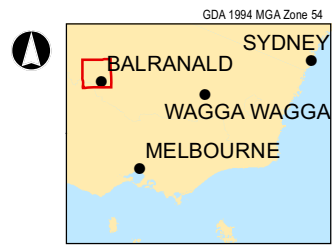




Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

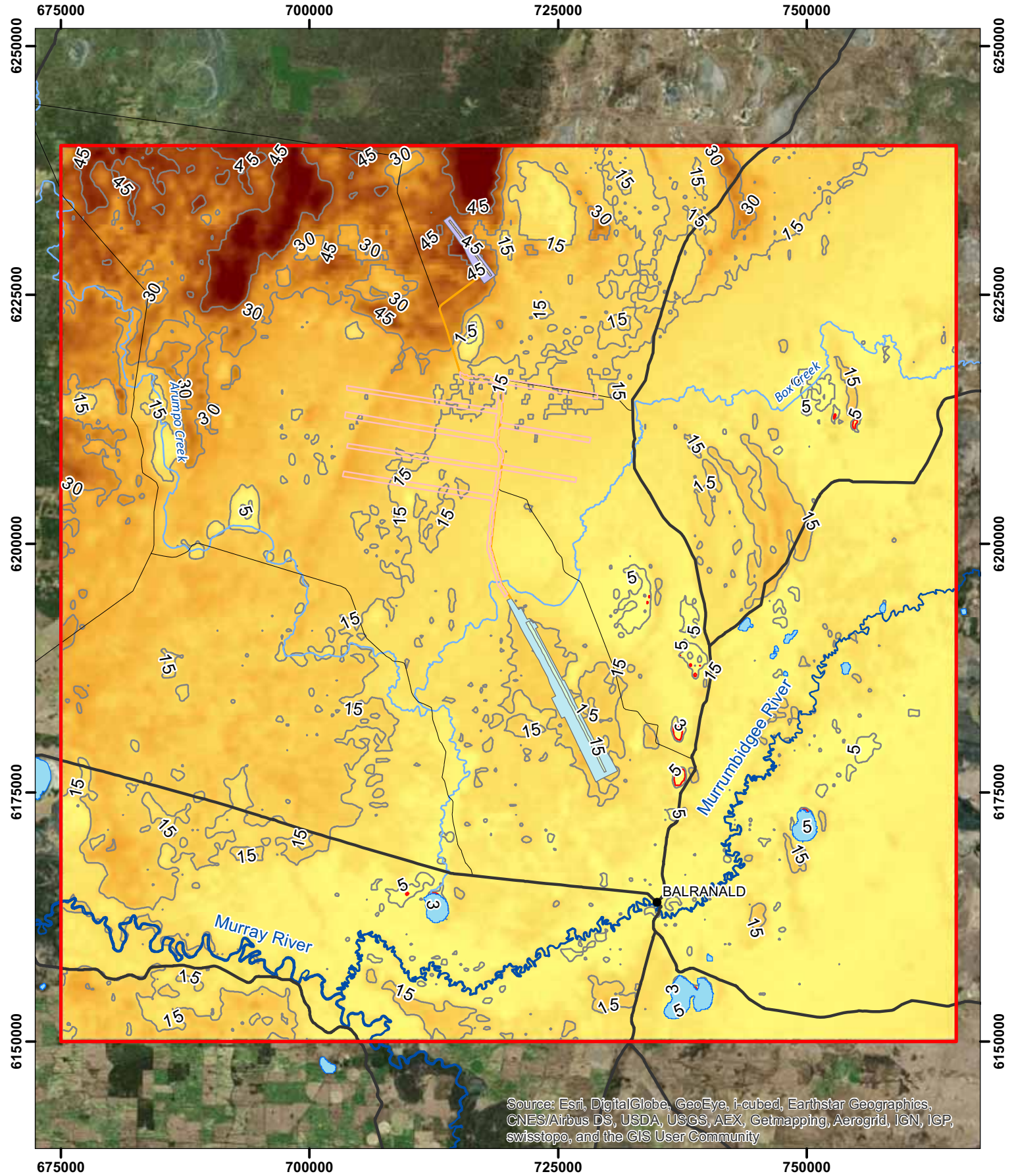
- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- BAL2.0 model domain
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)

Modelled depth to water (m)
 High : 71.6
 Low : 0.7



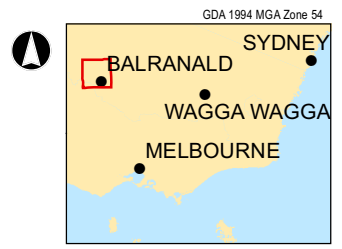
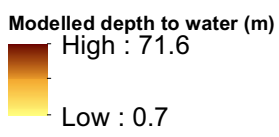
BAL2.0 TS2 opt29 modelled depth to water in Shepparton Formation 10 years post-mining





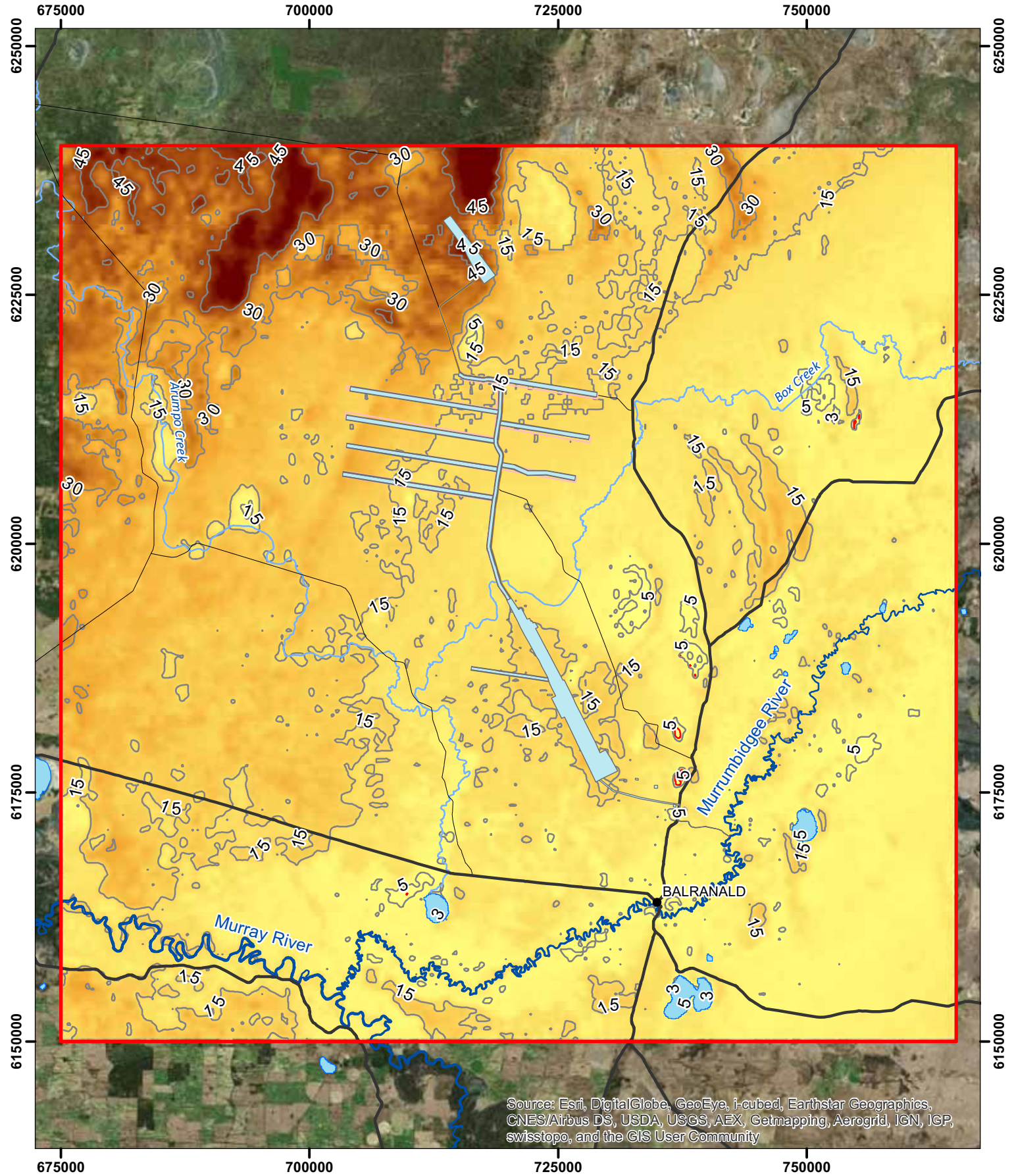
Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- BAL2.0 model domain
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)



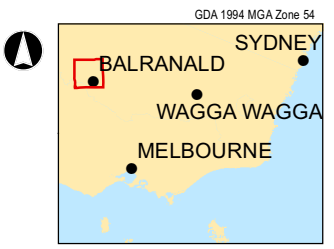
BAL2.0 TS2 opt29 modelled depth to water in LPS1 foreshore 10 years post-mining





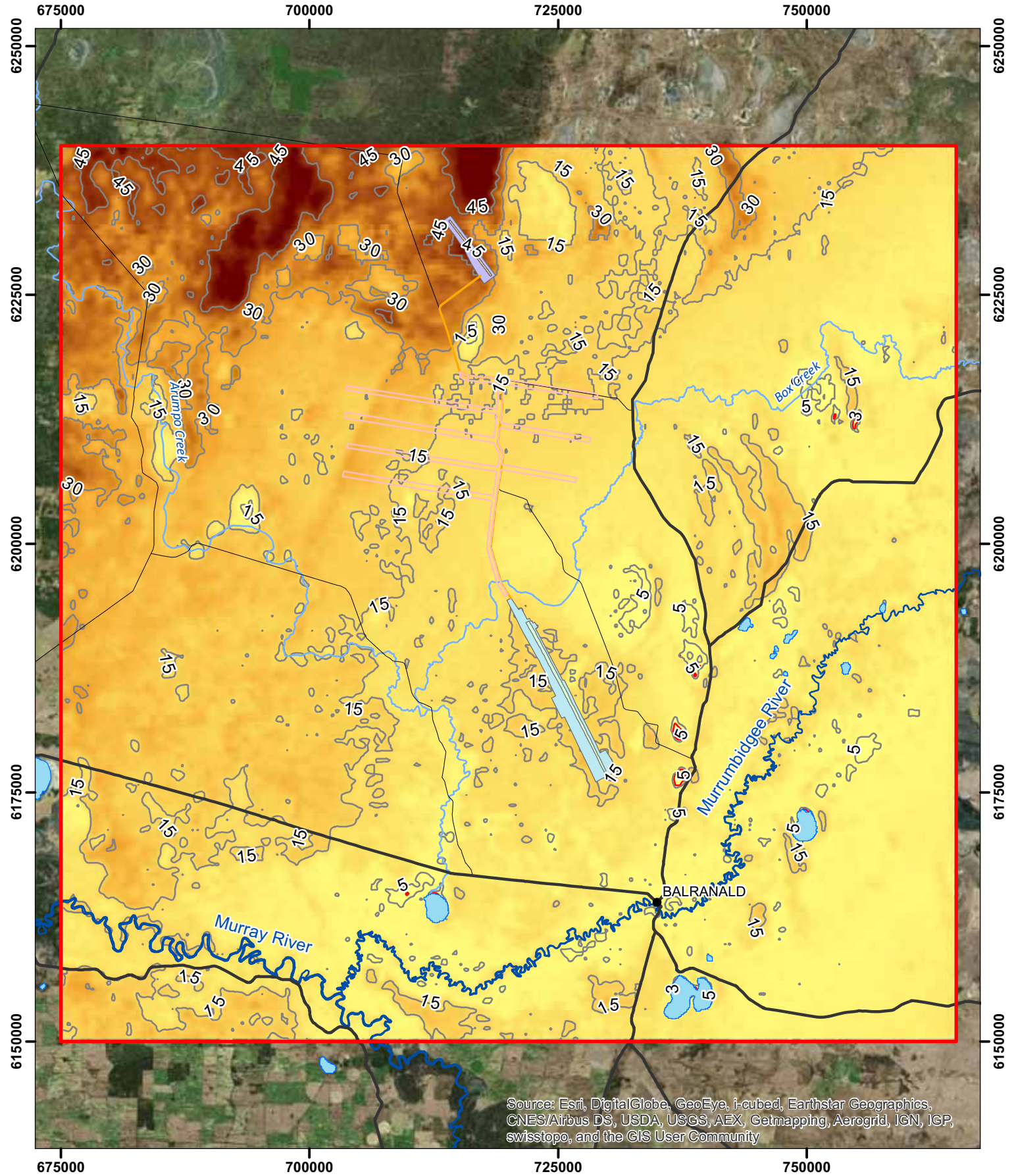
- Town
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- Minor Road
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- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
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- Nepean disturbance
- BAL2.0 model domain
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)

Modelled depth to water (m)
 High : 71.6
 Low : 0.7



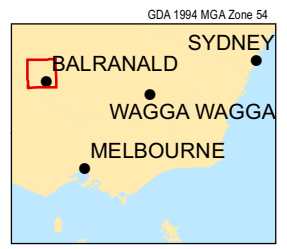
BAL2.0 TS2 opt29 modelled depth to water in Shepparton Formation 30 years post-mining





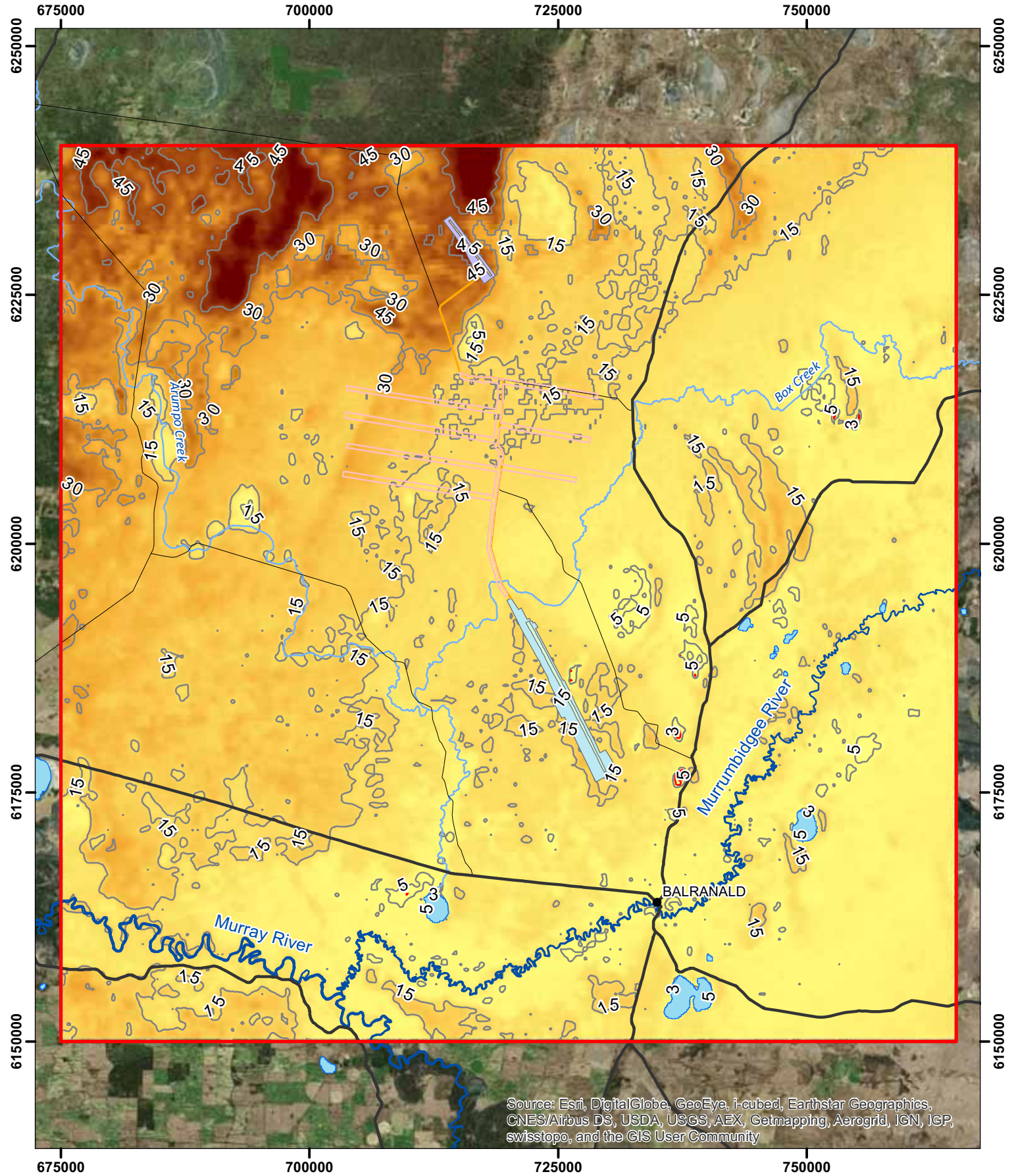
- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- BAL2.0 model domain
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)

Modelled depth to water (m)
 High : 71.6
 Low : 0.7



BAL2.0 TS2 opt29 modelled depth to water in LPS1 foreshore 30 years post-mining

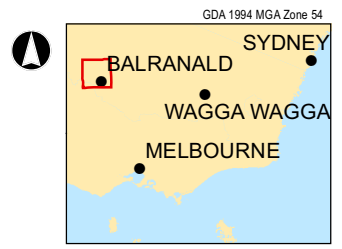




Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

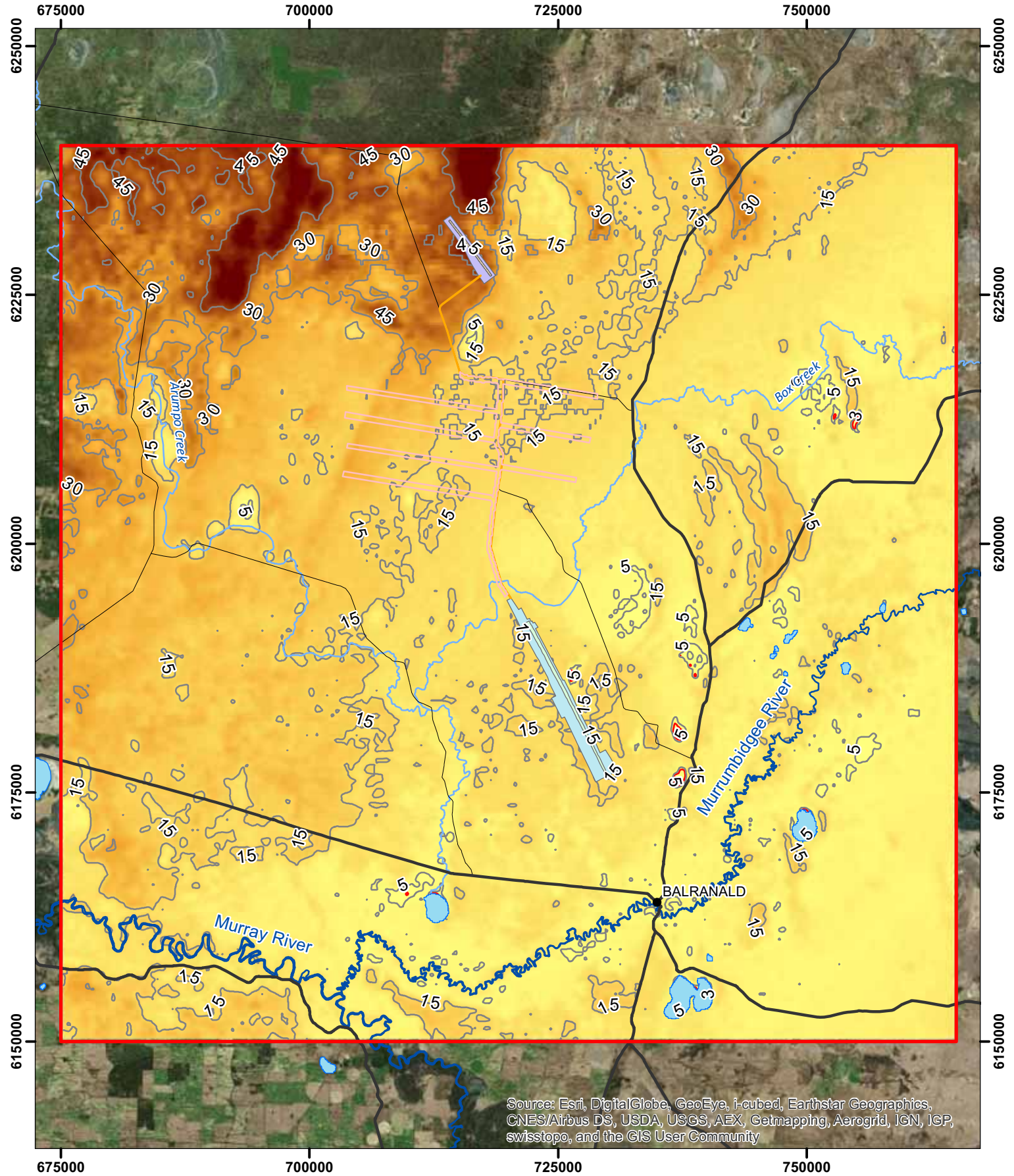
- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- BAL2.0 model domain
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)

Modelled depth to water (m)
 High : 71.6
 Low : 0.7



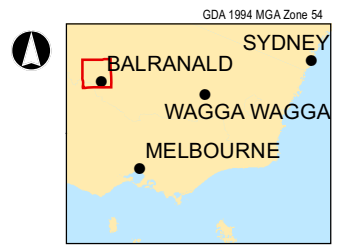
BAL2.0 TS2 opt29 modelled depth to water in Shepparton Formation 100 years post-mining





- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- BAL2.0 model domain
- EIS offpath injection area
- 3 m modelled depth to water
- Modelled depth to water (m)

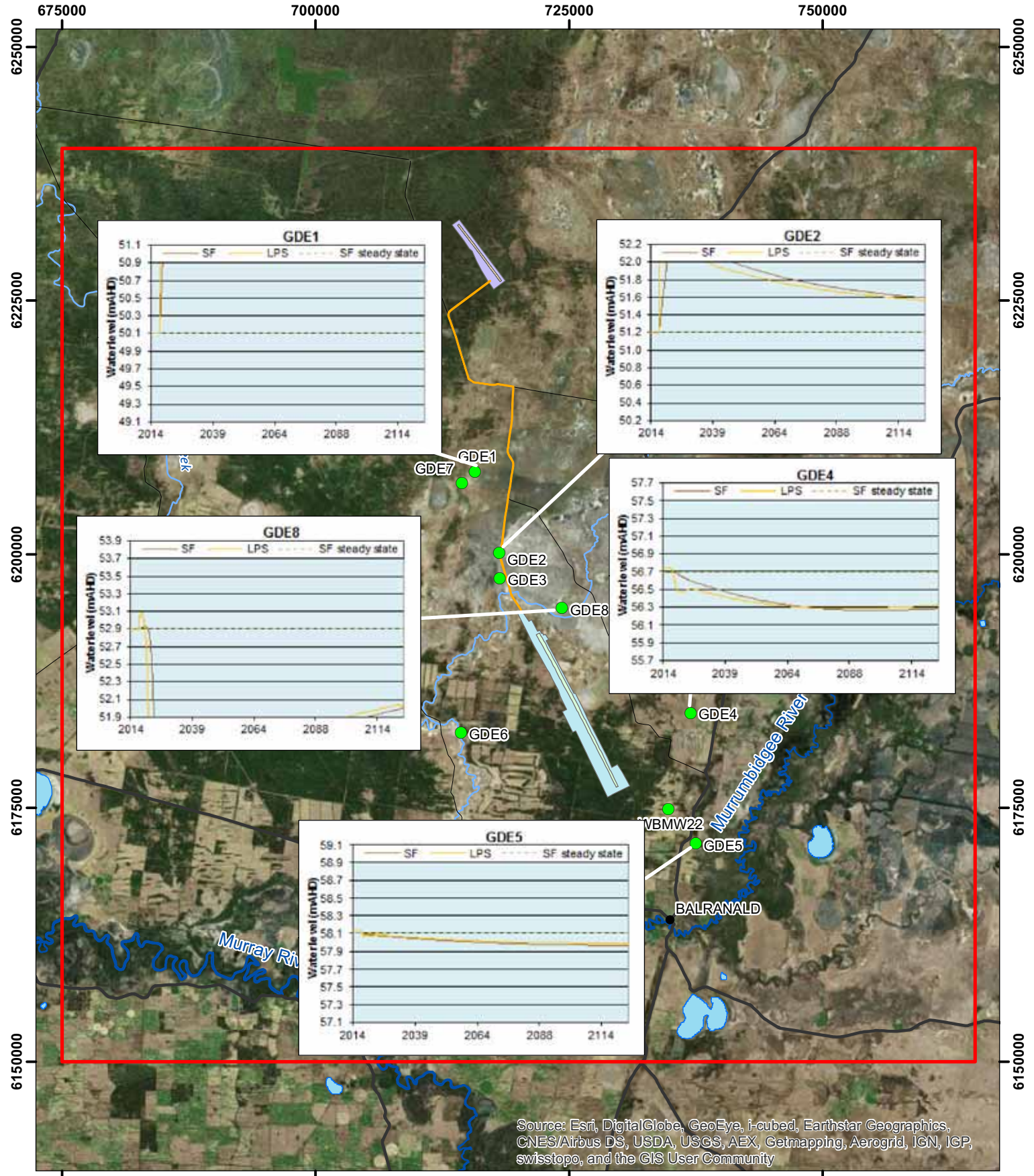
Modelled depth to water (m)
 High : 71.6
 Low : 0.7



BAL2.0 TS2 opt29 modelled depth to water in LPS1 foreshore 100 years post-mining



Appendix F. Predicted hydrographs at potential GDE sites



Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

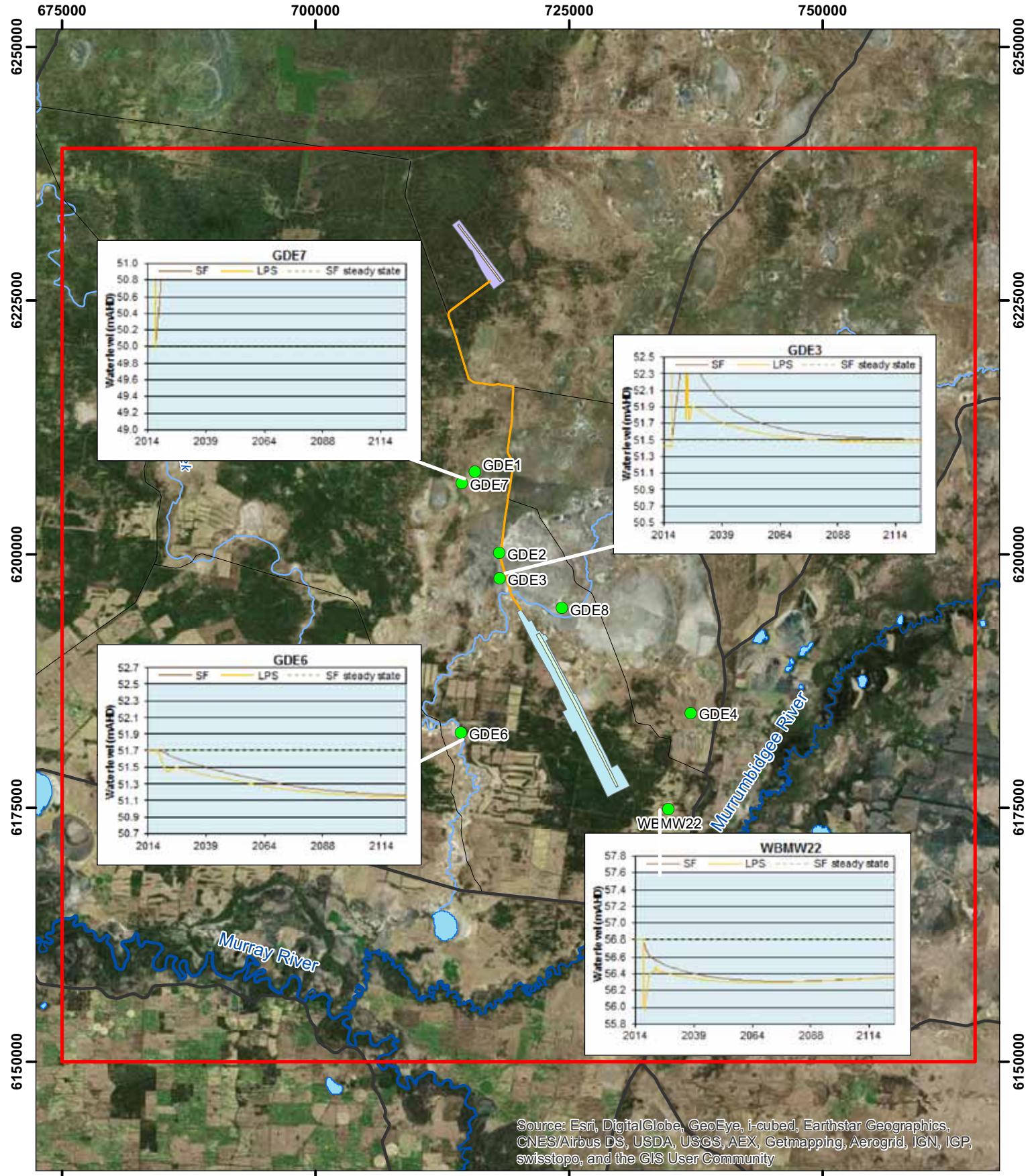
GDA 1994 MGA Zone 54

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- GDE monitoring locations
- BAL2.0 model domain



BAL2.0 TS2 opt29 GDE hydrographs





Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

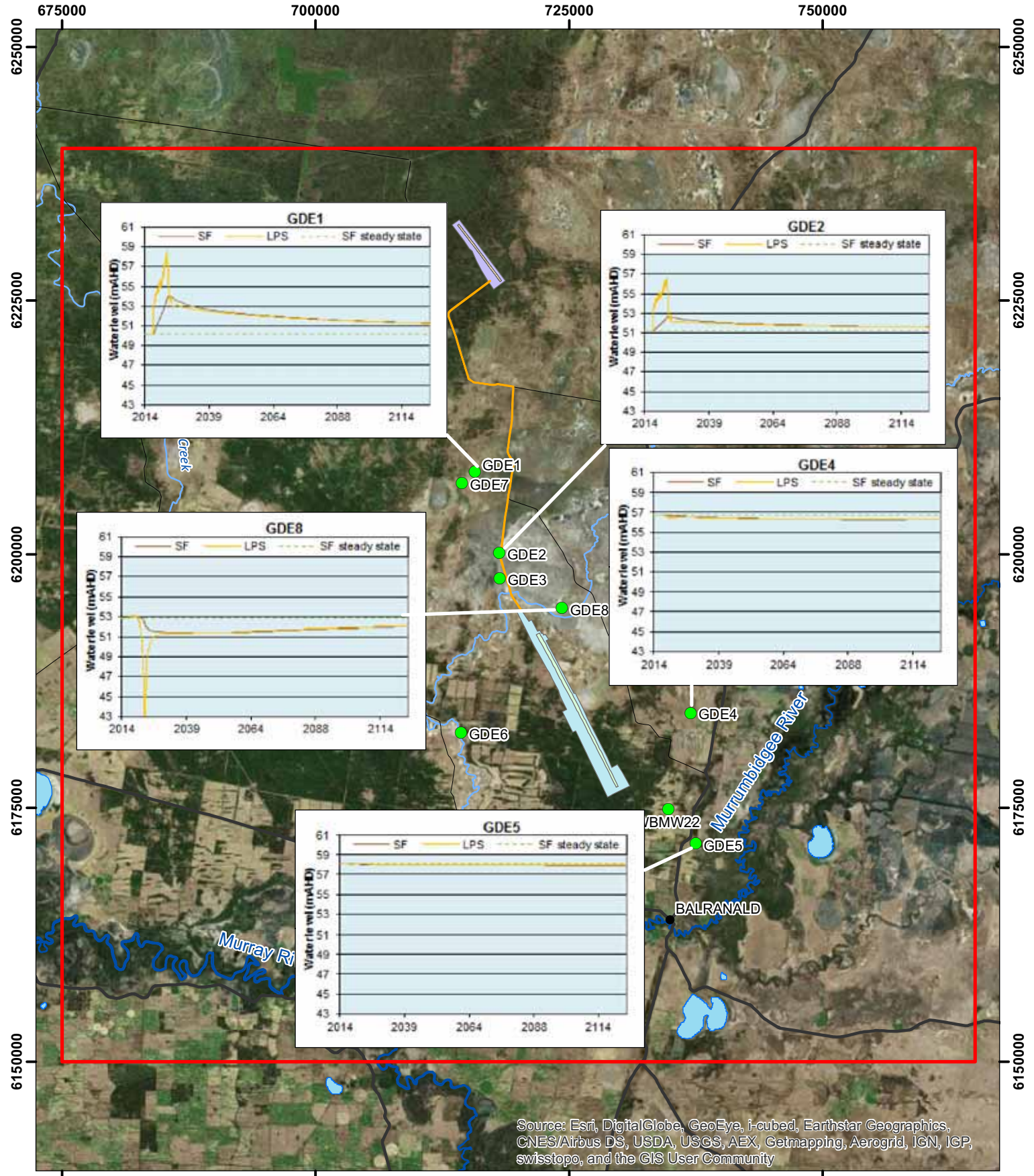
GDA 1994 MGA Zone 54

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- BAL2.0 model domain
- GDE monitoring locations



BAL2.0 TS2 opt29 GDE hydrographs





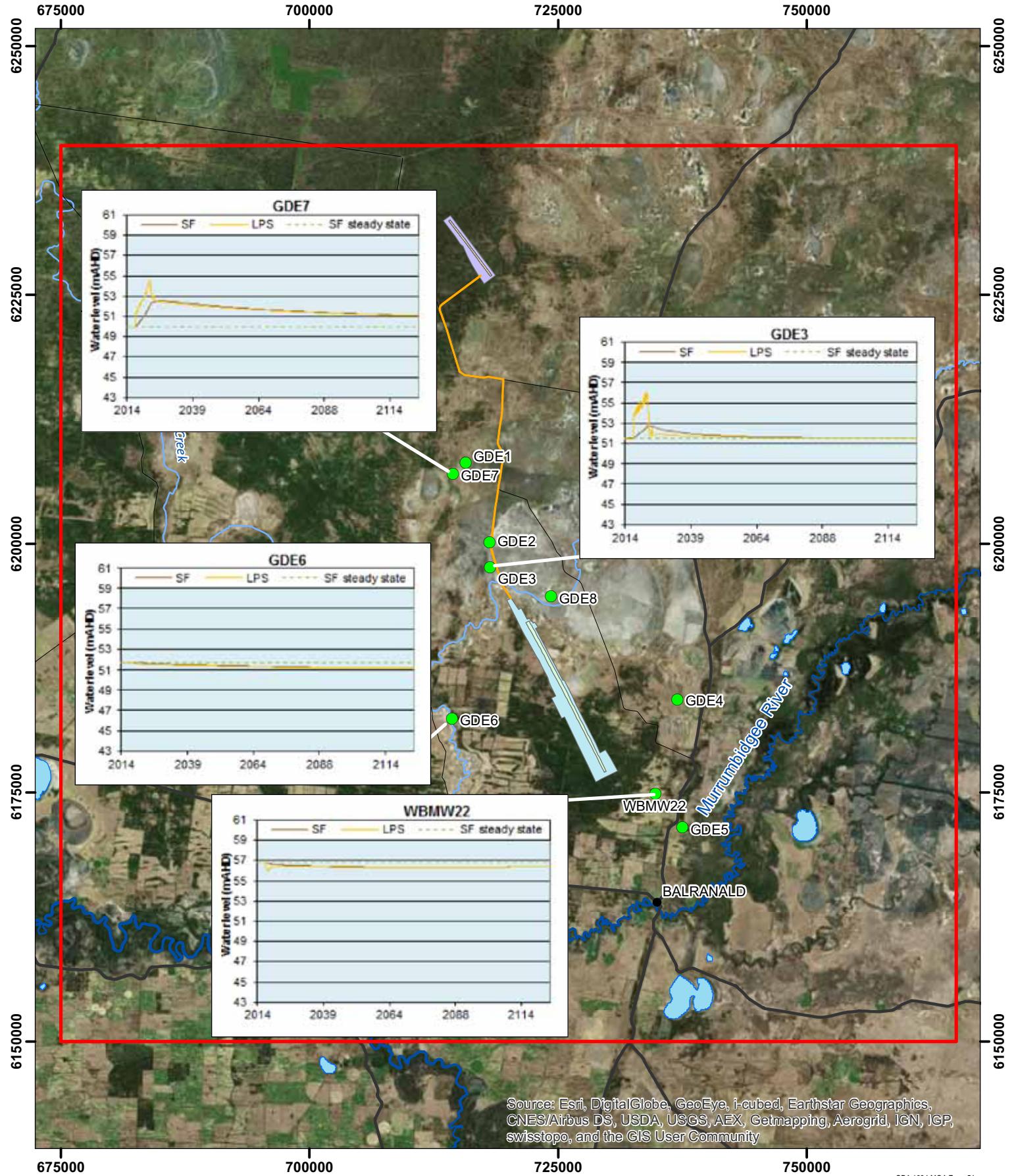
GDA 1994 MGA Zone 54

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- GDE monitoring locations
- BAL2.0 model domain



BAL2.0 TS2 opt29 GDE hydrographs





GDA 1994 MGA Zone 54

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- BAL2.0 model domain
- GDE monitoring locations



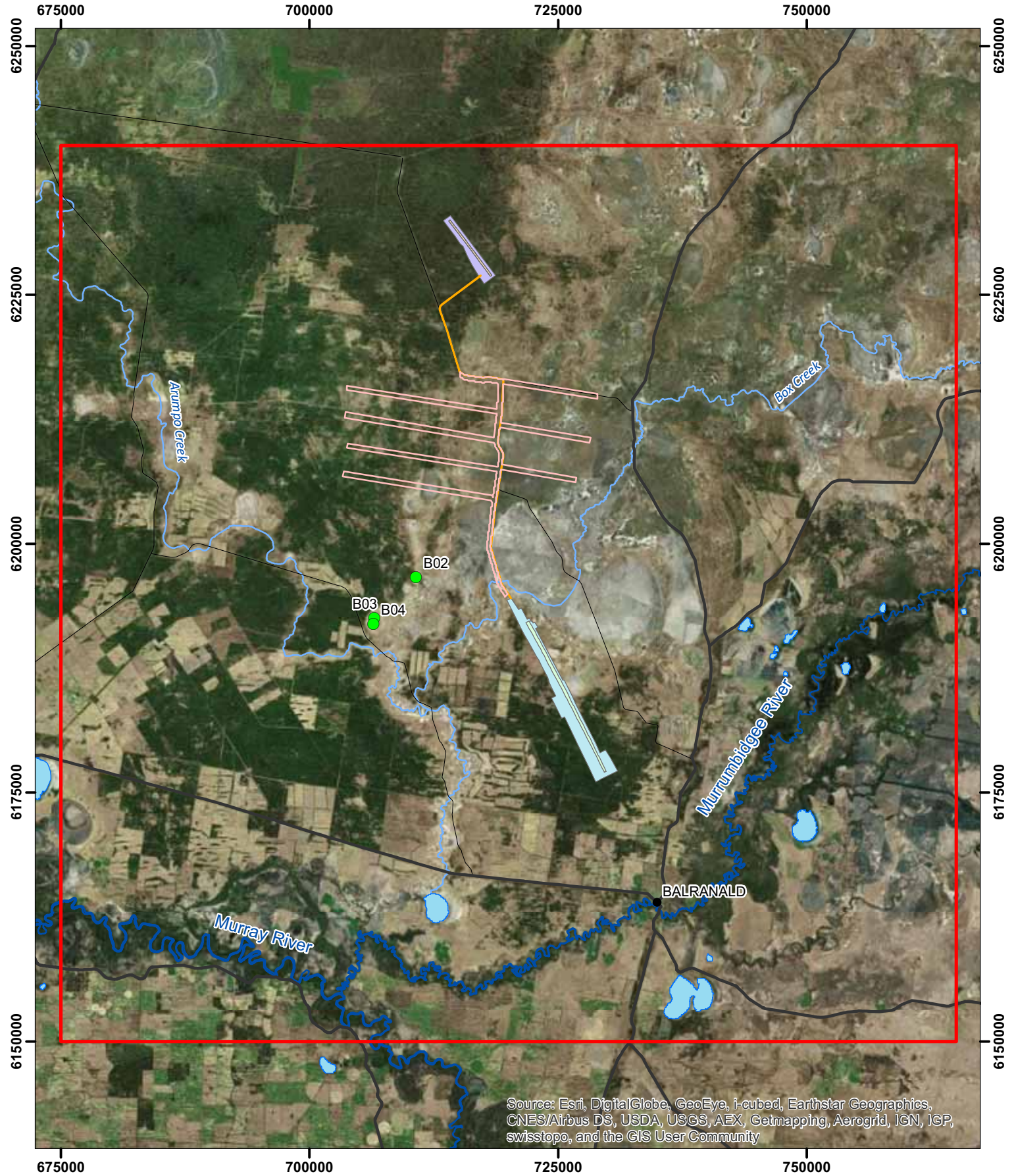
BAL2.0 TS2 opt29 GDE hydrographs



Appendix G. Predicted hydrographs at third party wells

Well name	Easting (m)	Northing (m)	Depth (m)	Screened Unit (OW data)	Assumed Unit
B02	710718	6196641	15.71	Shepparton Formation	
B03	706511	6192542	8.16	Shepparton Formation	
B04	706422	6191959	6.94	Shepparton Formation	
B01	711496	6201617	182.88	Olney Formation	
GW004017	715950	6222573	224.5	Olney Formation	
GW022733	707304	6213683	202.1	Olney Formation	
GW036673(3)	711658	6189281	294	Olney Formation	
GW036866(4)	734923	6203101	217	Olney Formation	
GW036866(5)	734920	6203104	278	Olney Formation	
GW040247(4)	720958	6166114	198	Olney Formation	
GW054583	721618	6227340	264	Olney Formation	
HD1	726012	6185773	241	Olney Formation	
T01	722791	6201029	225	Olney Formation	
T02	729721	6195973	185.9	Olney Formation	
T03	732061	6189404	223	Olney Formation	
W400	727813	6221696	121.92	Olney Formation	
W800	720479	6226035	243.8	Olney Formation	
WB01	718657	6217757	250	Olney Formation	
WB02	707311	6213680	201	Olney Formation	
GW004486	678100	6187272	304.8		Olney Formation
GW005300	720650	6170207	182.9		Olney Formation
GW006428	730831	6236922	243.9		Olney Formation
GW013337	733546	6234544	184.4		Olney Formation
GW014365	731875	6231348	184.7		Olney Formation
GW026610	757728	6222969	181.1		Olney Formation
GW028355	743505	6226461	195.1		Olney Formation
GW029846	747636	6226446	295.1		Olney Formation
GW031767	718575	6169824	204.2		Olney Formation
GW036646	683566	6209309	346.4		Olney Formation
GW036724	704919	6155404	320		Olney Formation
GW036789	759805	6182257	409		Olney Formation
GW056790	733226	6214389	197.5		Olney Formation
GW401846	715871	6216258	227		Olney Formation
GW402887	747048	6161021	407		Olney Formation
GW416471	723925	6198357	180		Olney Formation
GW500288	711477	6189421	260		Olney Formation
GW600489	720429	6188312	239		Olney Formation
GW600496	725949	6200124	287		Olney Formation
GW600520	724796	6186381	264		Olney Formation

Well name	Easting (m)	Northing (m)	Depth (m)	Screened Unit (OW data)	Assumed Unit
GW600521	717669	6187456	290		Olney Formation
GW700047	748415	6231698	188		Olney Formation
GW704706	749478	6217866	206		Olney Formation
GW704758	764872	6221617	237		Olney Formation



Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

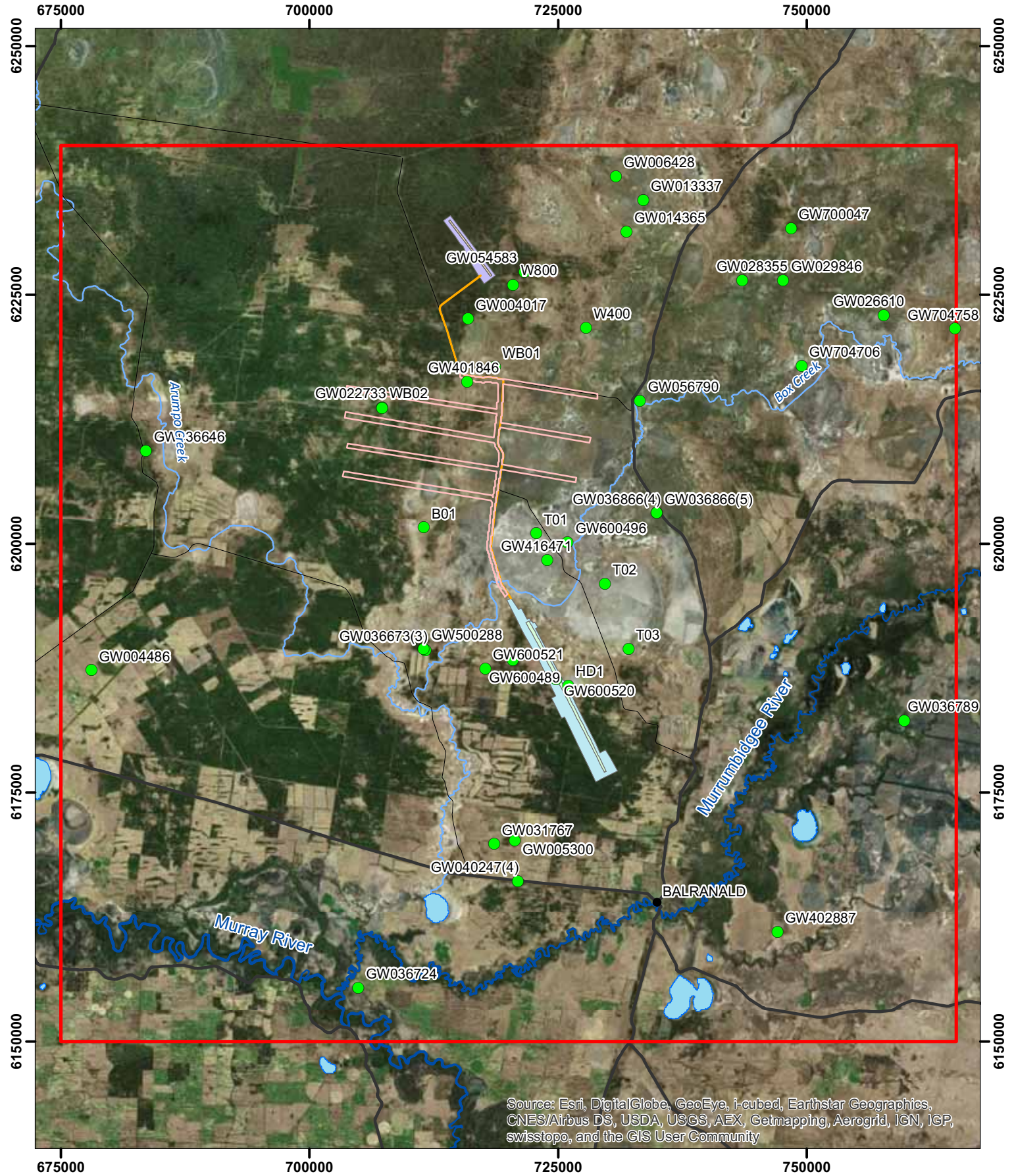
GDA 1994 MGA Zone 54

- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- Third party wells
- BAL2.0 model domain



Shepparton Formation third party wells





- Town
- Major road
- Minor Road
- Lake
- River
- Watercourse
- Haul road
- West Balranald pit limits
- West Balranald disturbance
- Nepean pit limits
- Nepean disturbance
- EIS offpath injection area
- Third party wells
- BAL2.0 model domain



Olney Formation third party wells



