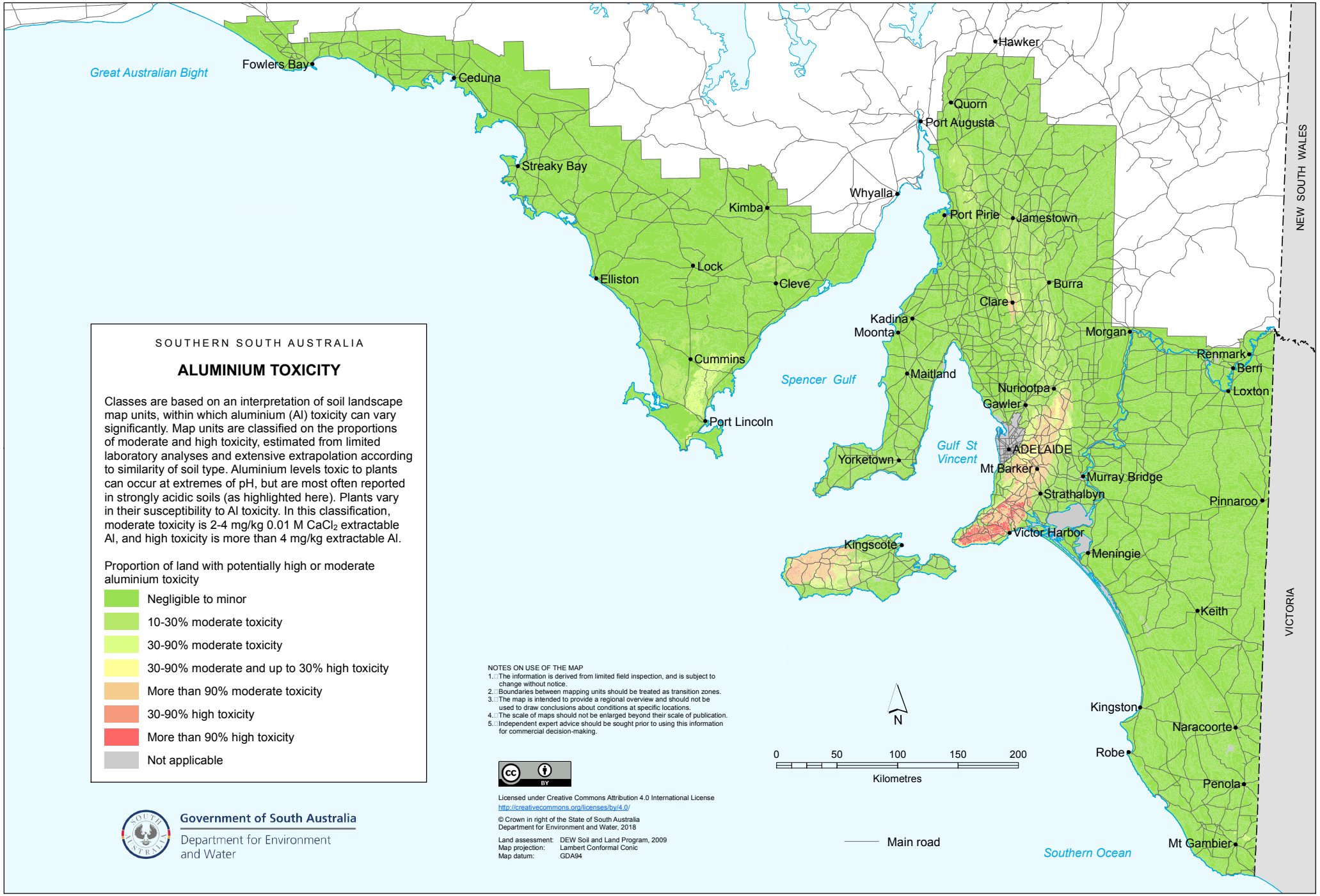
Great Australian Bight
Fowlers Bay
Ceduna
Streaky Bay
Kimba
Lock
Elliston
Cleve
Cummins
Port Lincoln
Whyalla
Hawker
Quorn
Port Augusta
Port Pirie
Jamestown
Burra
Clare
Kadina
Moonta
Morgan
Maitland
Spencer Gulf
Renmark
Berri
Loxton
Nuriootpa
Gawler
ADELAIDE
Gulf St Vincent
Yorketown
Mt Barker
Murray Bridge
Strathalbyn
Pinnaroo
Victor Harbor
Kingscote
Meningie
Keith
Kingston
Naracoorte
Robe
Penola
Mt Gambier
Southern Ocean
NEW SOUTH WALES
VICTORIA
SOUTHERN SOUTH AUSTRALIA
ALUMINIUM TOXICITY
Classes are based on an interpretation of soil landscape map units, within which aluminium (Al) toxicity can vary significantly. Map units are classified on the proportions of moderate and high toxicity, estimated from limited laboratory analyses and extensive extrapolation according to similarity of soil type. Aluminium levels toxic to plants can occur at extremes of pH, but are most often reported in strongly acidic soils (as highlighted here). Plants vary in their susceptibility to Al toxicity. In this classification, moderate toxicity is 2-4 mg/kg 0.01 M CaCl2 extractable Al, and high toxicity is more than 4 mg/kg extractable Al.
Proportion of land with potentially high or moderate aluminium toxicity
Negligible to minor
10-30% moderate toxicity
30-90% moderate toxicity
30-90% moderate and up to 30% high toxicity
More than 90% moderate toxicity
30-90% high toxicity
More than 90% high toxicity
Not applicable
NOTES ON USE OF THE MAP
1. The information is derived from limited field inspection, and is subject to change without notice.
2. Boundaries between mapping units should be treated as transition zones.
3. The map is intended to provide a regional overview and should not be used to draw conclusions about conditions at specific locations.
4. The scale of maps should not be enlarged beyond their scale of publication.
5. Independent expert advice should be sought prior to using this information for commercial decision-making.
N
0 50 100 150 200
Kilometres
Main road
Government of South Australia
Department for Environment and Water
Licensed under Creative Commons Attribution 4.0 International License
http://creativecommons.org/licenses/by/4.0/
© Crown in right of the State of South Australia
Department for Environment and Water, 2018
Land assessment: DEW Soil and Land Program, 2009
Map projection: Lambert Conformal Conic
Map datum: GDA94