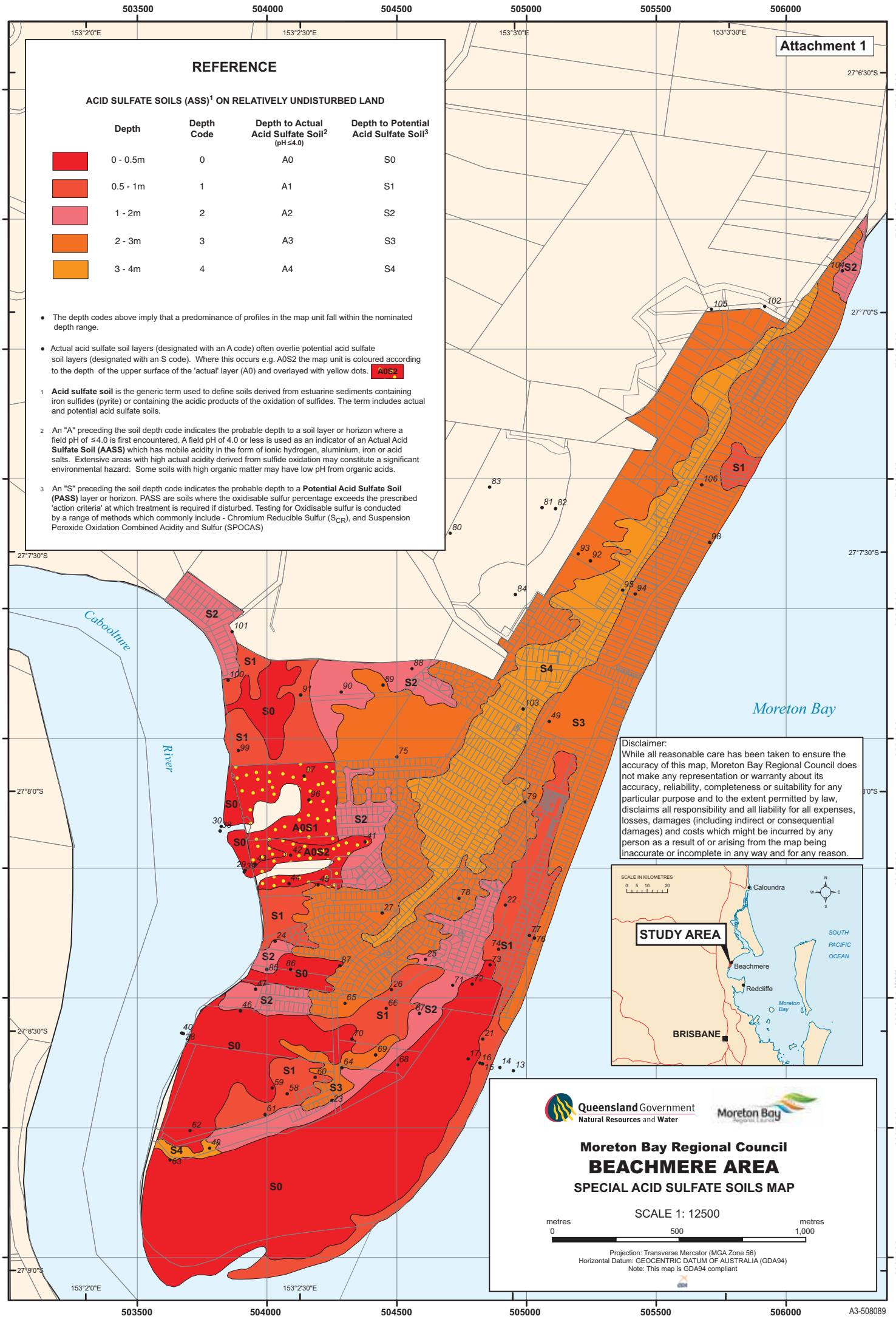
Attachment 1
REFERENCE
ACID SULFATE SOILS (ASS)[1] ON RELATIVELY UNDISTURBED LAND
Depth | Depth Code | Depth to Actual Acid Sulfate Soil[2] (pH ≤4.0) | Depth to Potential Acid Sulfate Soil[3]
0 - 0.5m | 0 | A0 | S0
0.5 - 1m | 1 | A1 | S1
1 - 2m | 2 | A2 | S2
2 - 3m | 3 | A3 | S3
3 - 4m | 4 | A4 | S4
• The depth codes above imply that a predominance of profiles in the map unit fall within the nominated depth range.
• Actual acid sulfate soil layers (designated with an A code) often overlie potential acid sulfate soil layers (designated with an S code). Where this occurs e.g. A0S2 the map unit is coloured according to the depth of the upper surface of the 'actual' layer (A0) and overlayed with yellow dots. A0S2
1 Acid sulfate soil is the generic term used to define soils derived from estuarine sediments containing iron sulfides (pyrite) or containing the acidic products of the oxidation of sulfides. The term includes actual and potential acid sulfate soils.
2 An "A" preceding the soil depth code indicates the probable depth to a soil layer or horizon where a field pH of ≤4.0 is first encountered. A field pH of 4.0 or less is used as an indicator of an Actual Acid Sulfate Soil (AASS) which has mobile acidity in the form of ionic hydrogen, aluminium, iron or acid salts. Extensive areas with high actual acidity derived from sulfide oxidation may constitute a significant environmental hazard. Some soils with high organic matter may have low pH from organic acids.
3 An "S" preceding the soil depth code indicates the probable depth to a Potential Acid Sulfate Soil (PASS) layer or horizon. PASS are soils where the oxidisable sulfur percentage exceeds the prescribed 'action criteria' at which treatment is required if disturbed. Testing for Oxidisable sulfur is conducted by a range of methods which commonly include - Chromium Reducible Sulfur (S_{CR}), and Suspension Peroxide Oxidation Combined Acidity and Sulfur (SPOCAS)
Caboolture River
Moreton Bay
Disclaimer:
While all reasonable care has been taken to ensure the accuracy of this map, Moreton Bay Regional Council does not make any representation or warranty about its accuracy, reliability, completeness or suitability for any particular purpose and to the extent permitted by law, disclaims all responsibility and all liability for all expenses, losses, damages (including indirect or consequential damages) and costs which might be incurred by any person as a result of or arising from the map being inaccurate or incomplete in any way and for any reason.
SCALE IN KILOMETRES
0 5 10 20
Caloundra
STUDY AREA
Beachmere
Redcliffe
Moreton Bay
SOUTH PACIFIC OCEAN
BRISBANE
Queensland Government
Natural Resources and Water
Moreton Bay Regional Council
Moreton Bay Regional Council
BEACHMERE AREA
SPECIAL ACID SULFATE SOILS MAP
SCALE 1: 12500
metres 0 500 metres 1,000
Projection: Transverse Mercator (MGA Zone 56)
Horizontal Datum: GEOCENTRIC DATUM OF AUSTRALIA (GDA94)
Note: This map is GDA94 compliant
A3-508089