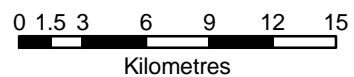


Legend

- Town
- River and Creek
- Water Management Areas
- Drinking Water Catchment including National Parks and State Forest - Zone 1
- ▨ Wollombi Brook - Zone 2
- ▨ Brisbane Water - Zone 3
- ▨ Ourimbah Creek - Zone 4
- ▨ Wyong River - Zone 5
- Upper Mangrove - Zone 6
- ▨ Lower Mangrove and Popran Creeks - Zone 7
- ▨ Mooney Mooney and Mullet Creeks - Zone 8



Map 15- Kulnura Mangrove Mountain Groundwater Source





Name of Water Source:

Kulnura Mangrove Mountain Groundwater Sources

Relevant Water Sharing Plan: Water Sharing Plan for the Kulnura Mangrove Mountain Groundwater Sources gazetted on 7 February 2003 and as amended by order on 1 July 2004.

Description of Water Source:

The Kulnura Mangrove Mountain Groundwater Sources are that area of land within Central Coast Water Management Area as shown in Map 15.

The area in respect of this Plan is made is that area of land within the Central Coast water Management Area known as the Kulnura Mangrove Mountain Groundwater aquifer.

The Kulnura - Mangrove Mountain Aquifer is located north of Sydney and inland from Gosford and occupies an area of 488 km². This covers the area between Mt Simpson, Gosford, Spencer and Pearl Beach. The aquifer geology is dominated by Hawkesbury Sandstone.

The Kulnura Mangrove Mountain Groundwater Management Area, has been divided into eight zones (groundwater sources) with seven of the eight zones based on subcatchments of streams draining the Central Coast Plateau. The outer boundary of the Groundwater Management Area is the geological contact between the Hawkesbury Sandstone and the rocks of the Narrabeen Group. The inner boundary(s) of the groundwater sources is the catchment divide between adjoining zones. The groundwater sources are as follows:

- (a) National Park, State Forest and Drinking Water Catchment Groundwater Source (**Zone 1**) - Aquifer defined by land under the ownership of State Forests, National Park or defined as the Drinking Water Catchment of the Gosford Wyong Councils Water Authority.
 - (b) Wollombi Brook Groundwater Source (**Zone 2**) - Aquifer defined by Wollombi Brook subcatchment overlying Hawkesbury Sandstone. Within this zone the dimensions of Hawkesbury Sandstone can be viewed as extending approximately 5 km north from the intersection of George Downs Drive and Walkers Ridge Rd, with the southern boundary set by these two roads.
 - (c) Brisbane Water Groundwater Source (**Zone 3**) - Aquifer defined by Brisbane Water subcatchment overlying Hawkesbury Sandstone. Within this zone the dimensions of the Hawkesbury Sandstone are bounded on western side by Woy Woy Rd and Wisemans Ferry Rd extending north until intersection of Wisemans Ferry Rd with Peats Ridge Rd at Somersby. Peats Ridge Rd forms the northern boundary whilst the eastern boundary can be viewed as the 20 m topographic elevation contour. Approx 4 km width and 5.7 km in length.
 - (d) Ourimbah Creek Groundwater Source (**Zone 4**) - Aquifer defined by Ourimbah Creek subcatchment overlying Hawkesbury Sandstone. bounded in the south by Peats Ridge Rd and the F3. The western boundary is marked by Wisemans Ferry Rd to the south of Central Mangrove whilst George Downs Drive marks the western boundary north of Central Mangrove until the intersection with Greta Rd and Bumble Hill Rd which mark the northern boundary. The eastern limits of the Zone 4 are bounded by Ourimbah State Forest. Approx 2.8 km width and 10km in length.
-

- (e) Wyong River Groundwater Source (**Zone 5**) - Aquifer defined by Wyong River subcatchment overlying Hawkesbury Sandstone. bounded by Greta Rd and Bumble Hill Rd to the south, George Downs Dr to the west, Walkers Ridge Rd to the north and Olney State Forest to the east. Approx 1.5km width and 10.7 km in length.
- (f) Upper Mangrove Groundwater Source (**Zone 6**) - Aquifer defined by Upper Mangrove Creek subcatchment overlying Hawkesbury Sandstone, bounded by George Downs Dr to the north and north east, Bloodtree Rd to the east, Waratah Rd to the south, and western boundary marked by the McPherson State Forest. Approx 6 km in width and 20 km in length.
- (g) Lower mangrove and Popran Creeks Groundwater Source (**Zone 7**) - Aquifer defined by Lower Mangrove and Popran Creeks subcatchments overlying Hawkesbury Sandstone. bounded by Mangrove Creek to the West, Waratah Rd and Bloodtree Rd to the north, Peats Ridge Rd to the East and the F3 and Hawkesbury River to the south. Approx 7.1 km width and 23.5 km in length.
- (h) Mooney Mooney and Mullet Creeks Groundwater Source (**Zone 8**) - Aquifer defined by Mooney Mooney and Mullet Creeks subcatchments overlying Hawkesbury Sandstone. bounded to the east by Woy Woy Rd and Wisemans Ferry Rd, to the west by Peats Ridge Rd between Calga and Central Mangrove whereby the intersection of Wisemans Ferry Rd and Peats Ridge Rd marks the northern boundary. The southern boundary is the Hawkesbury River. Approx. width 5.7 km and 26.5 km in length

Definition of Waters Included:

The water in these groundwater sources includes all water contained in the Hawkesbury sandstone aquifers within the groundwater sources listed above.