Western Australia

**Exmouth** * 20,000
**Kalbarri** 30,000
**Geraldton** 12,500
**Jurien Bay** 40,000
**Lancelin** 10,000
**Perth**
  - Ocean Reef 10,000
  - Hillarys 10,000
**Perth** *
  - Hillarys 10,000
**Busselton** *
  - Port Geographe 15,000
**Rockingham** *
  - Port Coogee 15,000
**Mandurah** 100,000
**Dialysville** 120,000
**Busselton** *
  - Port Geographe 60,000
**Esperance** *
  - Sandy Creek 60,000

**Victoria**

**Mallacotta (Bastion Point)** 10,000
**Lakes Entrance - Inner Channels** 150,000
**Lakes Entrance - Bar** 200,000
**Melbourne (Port Phillip Bay)**
  - Queenscliff - Patterson River 88,000
  - Patterson River - Other (6) 55,000
  - Other (6) 32,000
**Marengo and Apollo Bay** 16,000

**South Australia**

**Murray Mouth** 1,000,000
**Semaphore - West Beach** 100,000
**Glenelg - Kingston Park** 100,000

**Queensland + New South Wales**

**Noosa** 30,000
**Maroochydore** 100,000
**Mooloolaba** 20,000
**Woorim Beach** 30,000
**GC Seaway** 500,000
**GC Waterways** 150,000
**Tallebudgera Creek** 38,000
**Currimbim Creek** 50,000
**Tweed River** 500,000
**Jimmies Beach** 30,000
**Swansea Channel** 10,000
**Sydney (Narrabeen-Collaroy)** 45,000

**Sand Bypass + Transfer Systems**

**Adelaide**
**Melbourne**
**Sydney**

**Sand Volume = m³/yr**

1. Last done in 2018 and 2016 but typically every four years
2. Sand is placed just behind surf zone 2km either side of entrance to nourish adjacent beaches

**Criteria**

1. Material is sand
2. >10,000 m³ is relocated on an annual or frequent basis (not ad-hoc)
3. Sand is placed on shore or in surf zone for beach nourishment

* Bi-annual or tri-annual frequency
** Includes sea wrack

**Sand Stockpile**

**Pumping Jetty**

**Pumping Unit**

**Pumping Station**

**Piping Network**

**Truck Network**

**Transfer Components**

**Boating Access**

**Coastal Asset Protection**

**Environmental**

**Flood Mitigation**

**Beach Nourishment**

**Boating Access**

**Coastal Asset Protection**

**Environmental**

**Flood Mitigation**

**Beach Nourishment**

**Sand Delivery System**

**Sand Bypass + Transfer Systems**

**Swash Project Delivery ©**

**January 2020**