

OVERVIEW

In January 2017:

- 15,474 m³ of sand was pumped to Snapper Rocks East.
- 0 m³ of sand was pumped to Duranbah Beach.
- The Project no longer searches for media articles relating to the area.
- Wave heights ranged from calm to moderate (0.51 to 2.13 m), with a maximum significant wave height of 2.13 on 7th January. Wave directions varied from SE by S to NE by N but mostly from the SE by E.
- 3143 vessel crossings were recorded for the month (This is 162% of the January average).
- The estimated amount of sand moving north towards the Tweed River entrance by natural processes was in the order of 24,548 m³ (this is 53% of the January average of 45,945 m³).

1. SAND PUMPING & DREDGING

Sand Delivery January 2017

Pumped: 15,474 m³

Dredged: 0 m^3 Total: 15.474 m^3

The number of days sand was pumped this month = 22

Sand Delivery January 2017 to December 2017

Pumped: $15,474 \text{ m}^3$ Dredged: 0 m^3 Total: $15,474 \text{ m}^3$

Stage II Sand Delivery April 2000 to January 2017

Pumped: 8,538,103 m³

Dredged: 2,103,910 m³ *

Total: 10,642,013 m³ *

^{*} This Includes 22,870 m³ of sand delivered by dredge to Palm Beach between June and September 2005

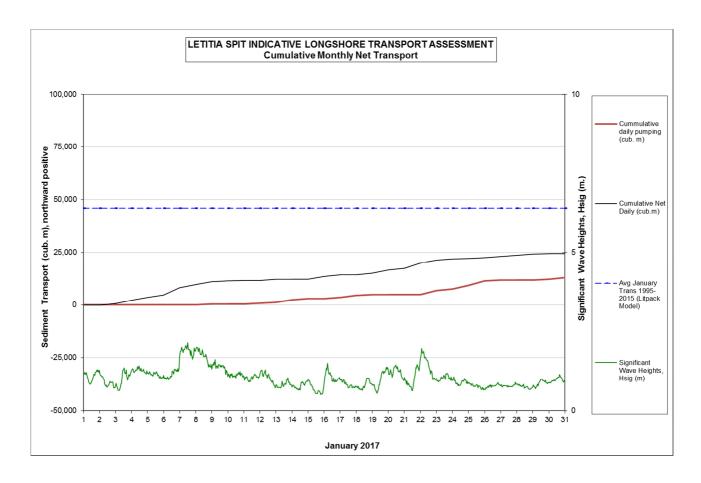


2. INDICATIVE LONGSHORE TRANSPORT

The graph below is based on simplified sediment transport modelling and is indicative only.

In January 2017 the estimated natural sand transport moving north towards the Tweed River entrance was calculated to be in the order of 24,548 m³.

This result is 53% of the average estimated sand transport quantity of approximately 45,945 m³ for the month of January.



TWEEDSAND BYPASSING

3. TWEED RIVER ENTRANCE USAGE

Marine Rescue NSW - Monitoring Results (Not including trawlers)

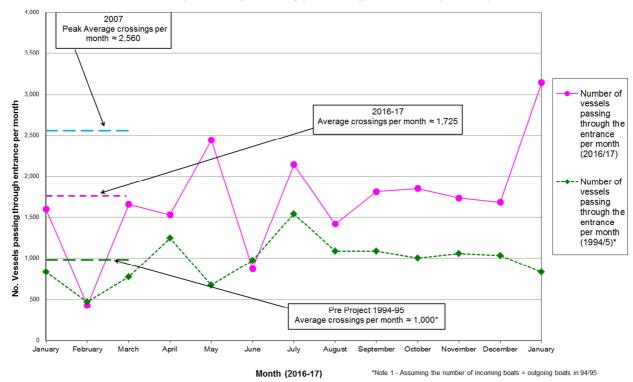
Weekends and public holidays

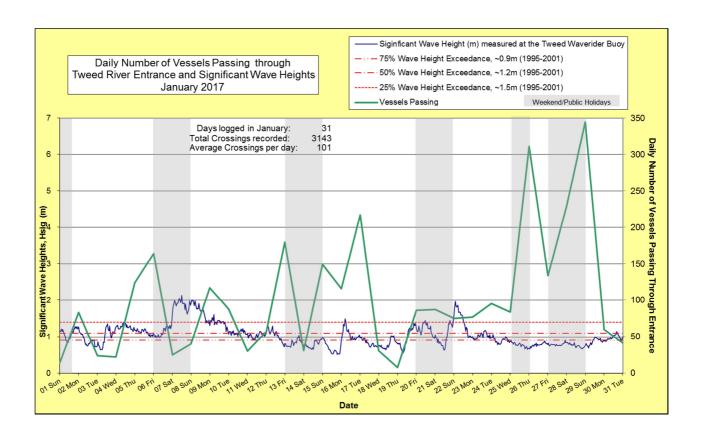
	Navigation Rating ImpassableGood					blic Holidays
Date	Impassable (1)	Difficulty Encountered (2)	Some Difficulty Encountered (3)	Relatively Good Crossing (4)	Good Conditions (5)	Number of Boats
1 st						14
2 nd						83
3 rd						24
4 th						22
5 th						124
6 th						164
7 th						25
8 th						40
9 th						117
10 th						88
11 th						30
12 th						57
13 th						180
14 th						31
15 th						149
16 th						116
17 th						217
18 th						31
19 th						8
20 th						86
21 st						87
22 nd						75
23 rd						77
24 th						95
25 th						84
26 th						311
27 th						134
28 th						228
29 th			_			345
30 th						60
31 st						41
					Total	3143

Source: Marine Rescue NSW, Point Danger

TWEEDSAND BYPASSING

Comparison of the number of vessels passing through the entrance per month 2016/17 compared to 2007 (peak crossings) and 1994/95 (prior to entrance improvements)







4. WAVE CONDITIONS

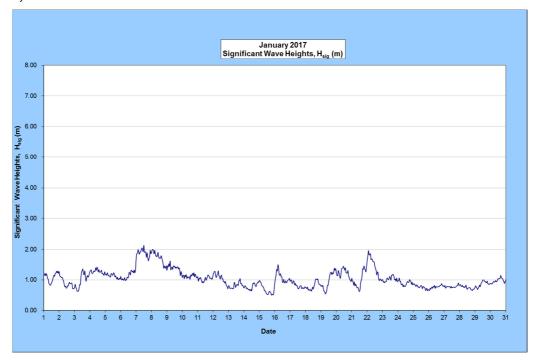
Wave conditions over the month: Wave heights ranged mostly from calm to moderate (0.51 to 2.13 m), with a maximum significant wave height of 2.13 m on 7th January. Wave directions varied from SE by S to NE by N but mostly from the SE by E.

Monthly minimum significant wave height: 0.51 m on 15th January Monthly maximum significant wave height: 2.13 m on 7th January

Number of days on which waves were below 1.0 m at some point in the day: 25 days

Number of days on which waves were above 2.0 m at some point in the day: 1 day

Note: Significant wave height (Hsig) is defined as the average of the highest one-third of waves recorded over a period of approximately 30 minutes.



(Source: Tweed Wave Buoy; Queensland Government)

A link to data recorded by the Tweed Waverider Buoy is available at: http://www.qld.gov.au/waves

WAVE DIRECTION

