

# TRESBP ENVIRONMENTAL MONITORING SUMMARY

## AUGUST 2011

### OVERVIEW

In August, 2011:

- 56,251 m<sup>3</sup> of sand was pumped to Snapper Rocks East.
- There were no media articles referring to the project.
- Sea conditions were calm to average with a minor storm of about two days duration during the fourth week (during August significant wave heights ranged from 0.6 to 3.3 m).
- 1,797 boats crossings were recorded for the month (this is about 8% fewer than the August average).
- The estimated amount of sand moving north towards the Tweed River Entrance by natural processes in the order of 56,000 m<sup>3</sup> (this is about 125% of the August average).

### 1. SAND PUMPING & DREDGING

#### **Sand Delivery August 2011**

Pumped:	56,251 m <sup>3</sup>
Dredged:	0 m <sup>3</sup>
Total:	56,251 m <sup>3</sup>

#### **Sand Delivery January to August 2011 (YTD)**

Pumped:	386,381 m <sup>3</sup>
Dredged:	0 m <sup>3</sup>
Total:	386,381 m <sup>3</sup>

#### **Sand Delivery January to August 2010**

Pumped:	268,923 m <sup>3</sup>
Dredged:	0 m <sup>3</sup>
Total:	268,923 m <sup>3</sup>

#### **Stage II Sand Delivery May 2000 to August 2011**

Pumped:	6,197,119 m <sup>3</sup>
Dredged:	2,038,900 m <sup>3</sup>
Total:	8,236,019 m <sup>3</sup>



CROWN LANDS DIVISION

Department of **Environment**  
and **Resource Management**



Queensland Government

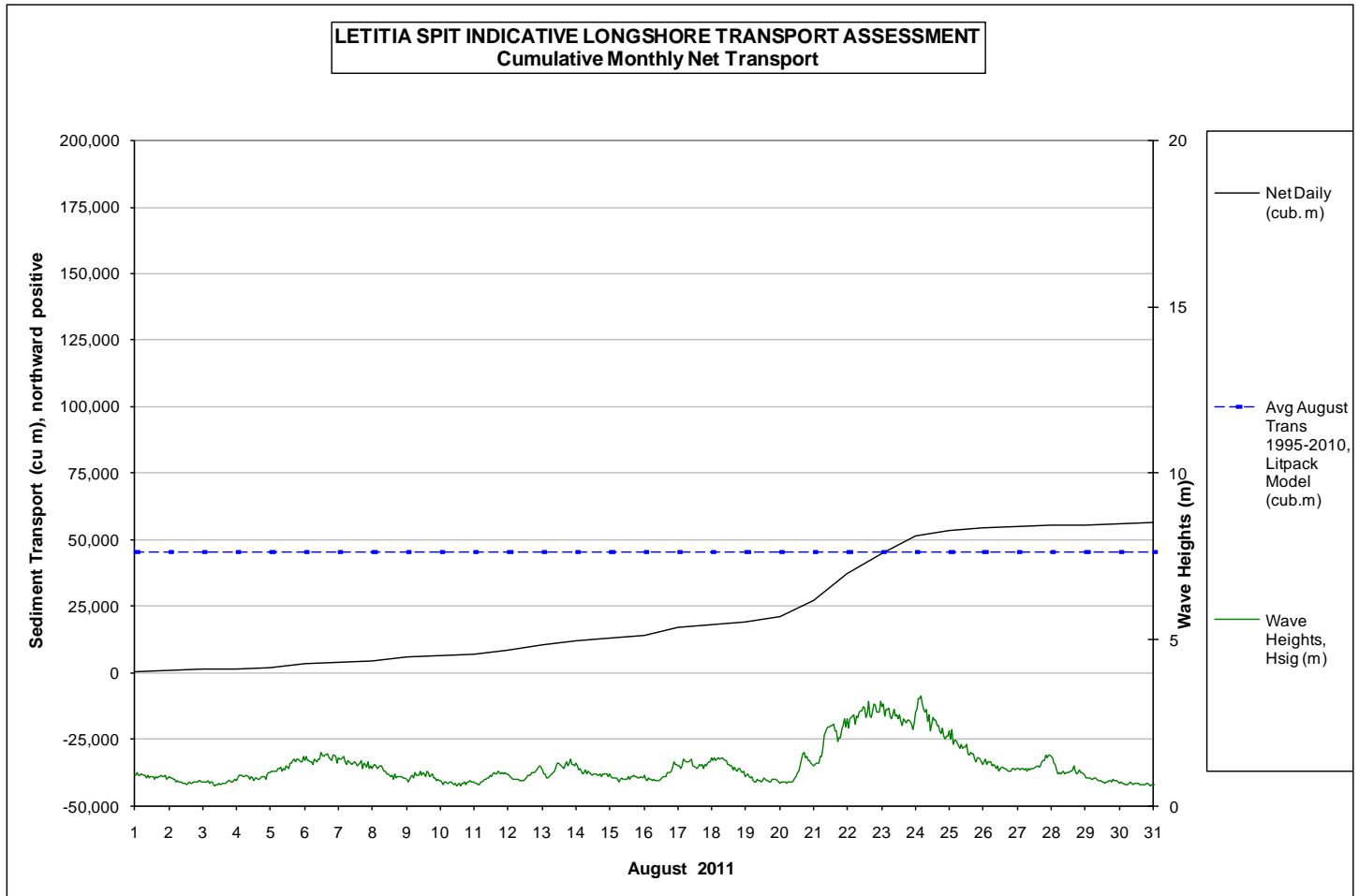


## 2. INDICATIVE LONGSHORE TRANSPORT

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


In August 2011 the estimated natural sand transport (moving N towards Tweed entrance): to be in the order of 51,000 m<sup>3</sup> to 56,000 m<sup>3</sup> (based on two separate models).

This result is higher than the average sand transport quantity for the month of August (ie about 125% of the average).

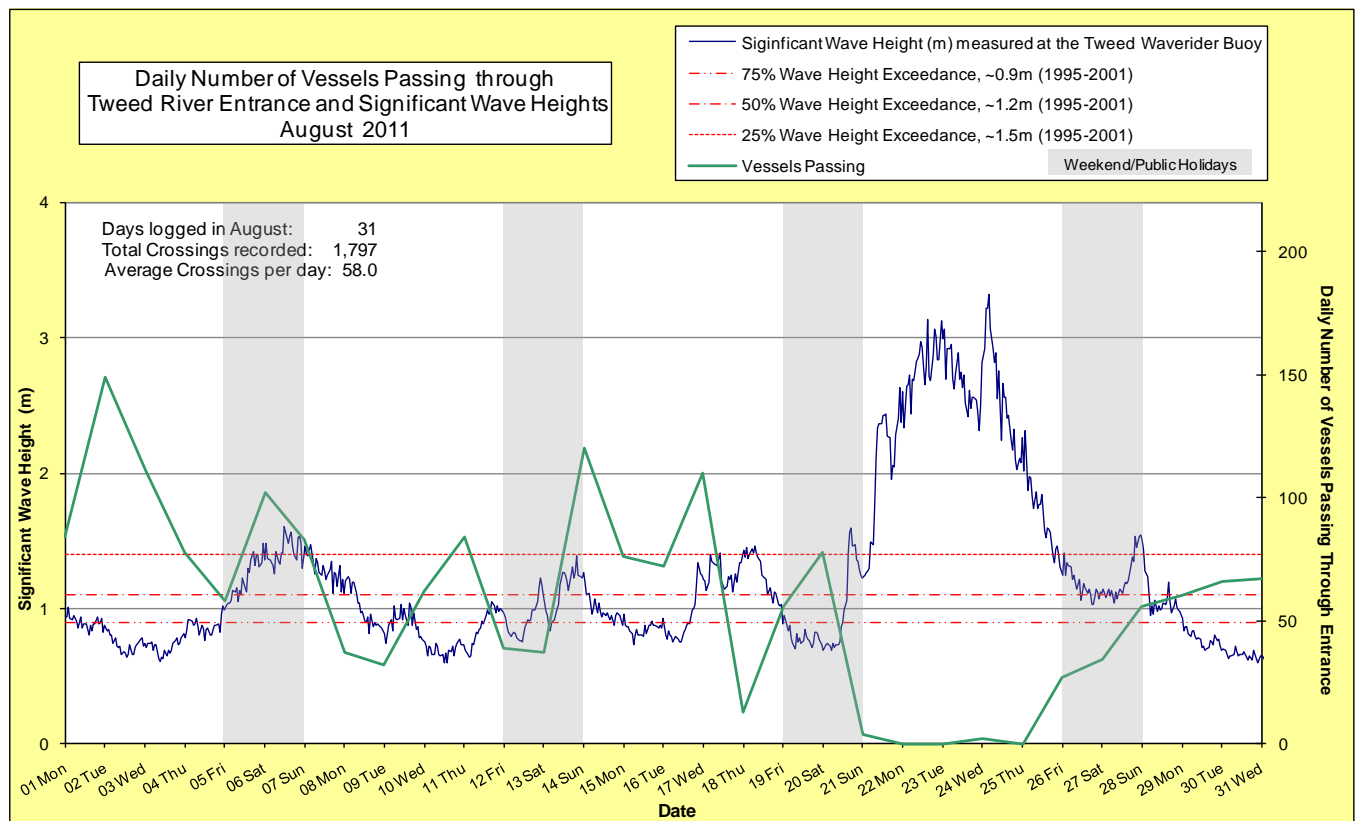
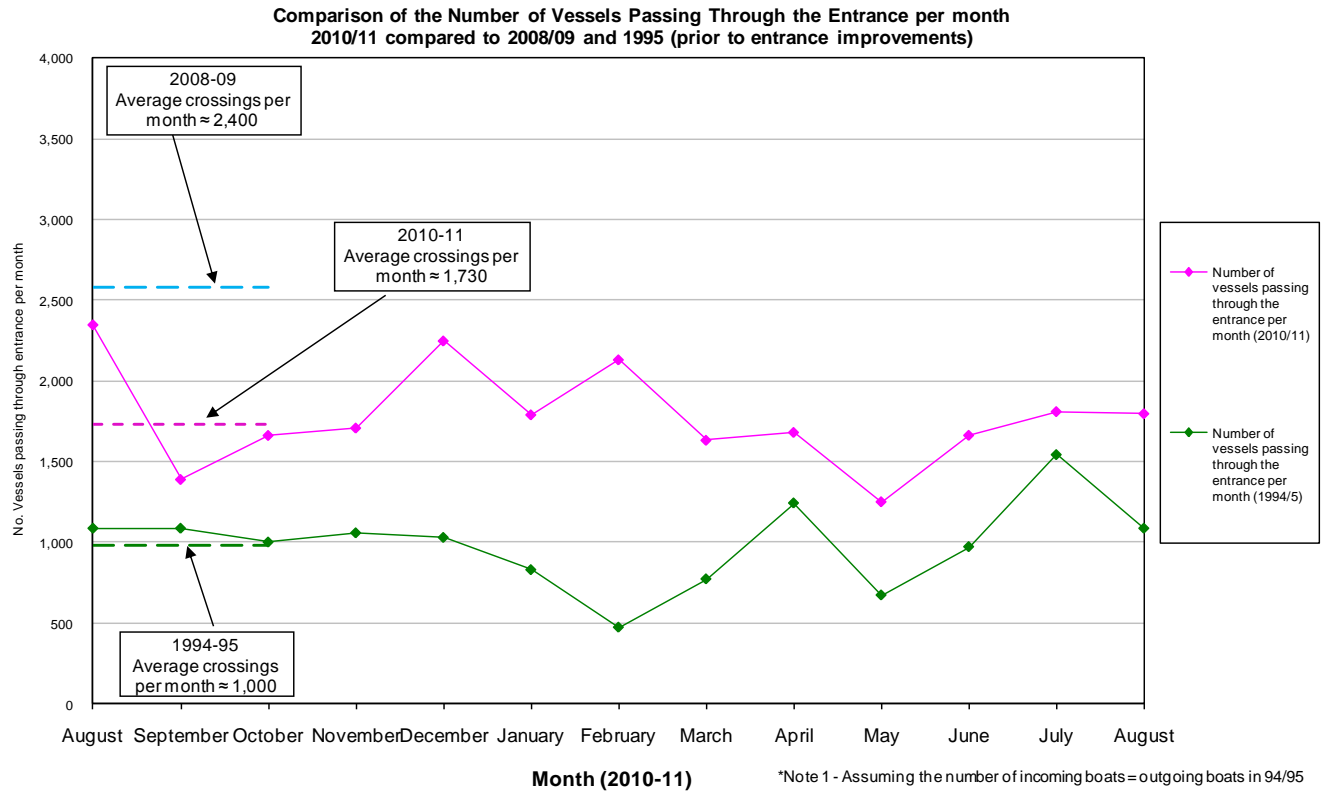


## 3. MEDIA COVERAGE

No media coverage referring to the project this month.

**4. TWEED RIVER ENTRANCE CONDITIONS****MARINE RESCUE NSW - MONITORING RESULTS**
 Weekends and public holidays

Date	Navigation Rating Impassable-----Good					Number of Boats
	Impassable (1)	Difficulty Encountered (2)	Some Difficulty Encountered (3)	Relatively Good Crossing (4)	Good Conditions (5)	
1 <sup>st</sup>						84
2 <sup>nd</sup>						149
3 <sup>rd</sup>						111
4 <sup>th</sup>						78
5 <sup>th</sup>						58
6 <sup>th</sup>						102
7 <sup>th</sup>						83
8 <sup>th</sup>						37
9 <sup>th</sup>						32
10 <sup>th</sup>						62
11 <sup>th</sup>						84
12 <sup>th</sup>						39
13 <sup>th</sup>						37
14 <sup>th</sup>						120
15 <sup>th</sup>						76
16 <sup>th</sup>						72
17 <sup>th</sup>						110
18 <sup>th</sup>						13
19 <sup>th</sup>						56
20 <sup>th</sup>						78
21 <sup>st</sup>						4
22 <sup>nd</sup>						0
23 <sup>rd</sup>						0
24 <sup>th</sup>						2
25 <sup>th</sup>						0
26 <sup>th</sup>						27
27 <sup>th</sup>						34
28 <sup>th</sup>						56
29 <sup>th</sup>						60
30 <sup>th</sup>						66
31 <sup>st</sup>						67
Total						1,713



## 5. WAVE & SURFING CONDITIONS

Dominant swell condition: Wave heights ranged from calm to average seas for most of the month (0.6 to 1.5 m) but an ocean storm occurred over 22<sup>nd</sup> to 24<sup>th</sup> with  $H_s$  recorded up to 3.3 m. Wave directions varied from E to ESE.

High sea events: 22<sup>nd</sup> to 24<sup>th</sup> August

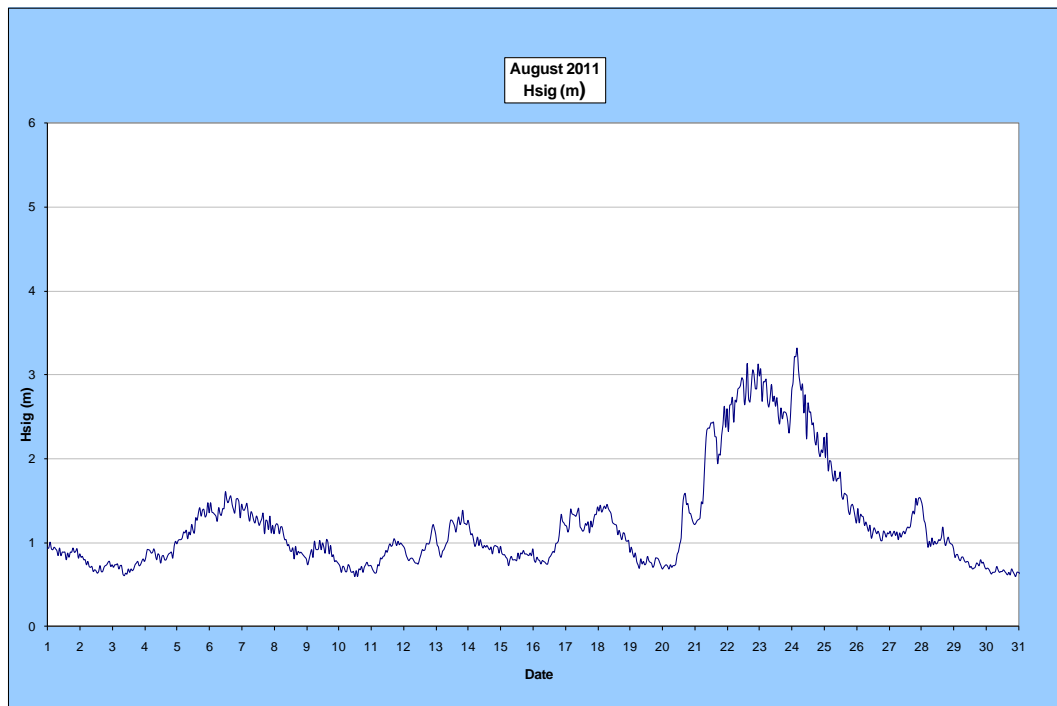
Monthly minimum significant wave height: 0.6 m on 31<sup>st</sup> August

Monthly maximum significant wave height: 3.3 m on 24<sup>th</sup> August

Number of days on which waves were below 1.0 m: 19 days

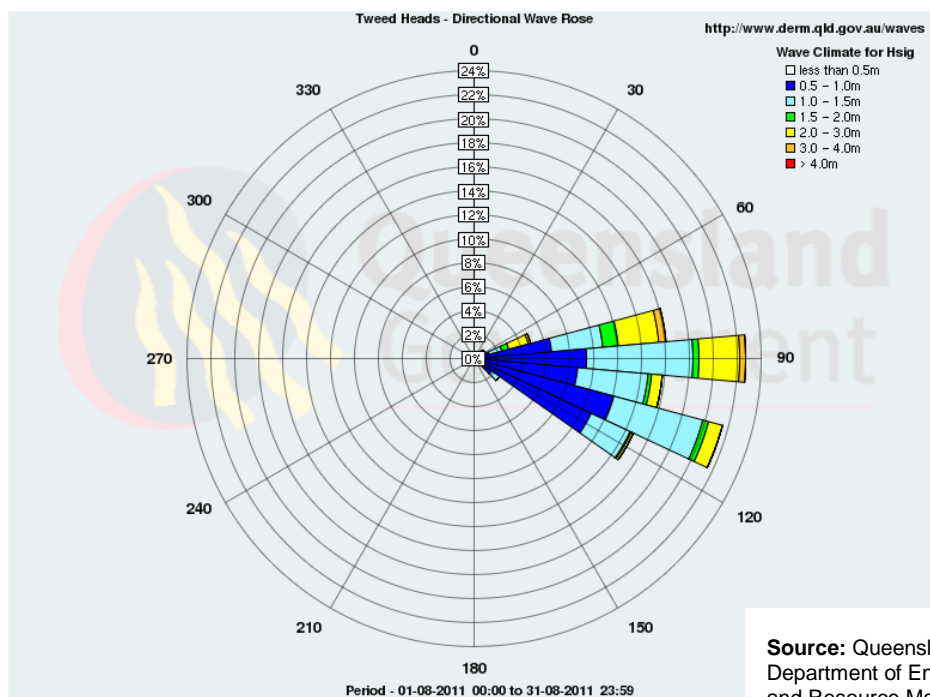
Number of days on which waves were above 2.0 m: 5 days

(Source: Tweed & Brisbane Wave Buoy; QDERM)



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

## WAVE DIRECTION



**Source:** Queensland Department of Environment and Resource Management

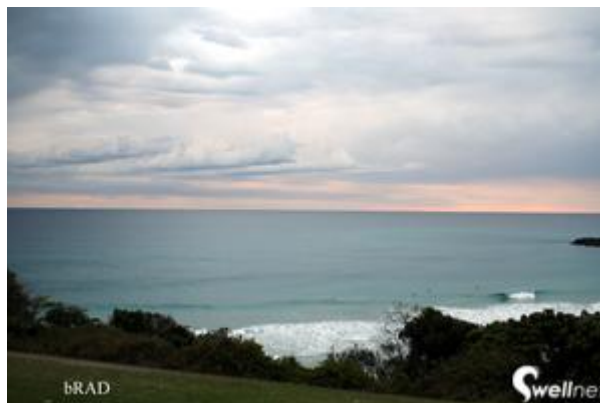
## UPCOMING SURF AND SURF LIFESAVING EVENTS

- Qld State Junior Surfing Titles, 3-4 September 2011, Gold Coast
- Ocean & Earth Teenage Rampage, 17-18 September 2011, Gold Coast
- Open Day, Kirra Surf Lifesaving Club, 25 September 2011, Kirra
- Surfing Qld World Tour Trials for the Trials, 22 October 2011, Gold Coast
- 2011 Wahu Surfer Grom Comp, 10-11 December 2011, Gold Coast

## PHOTOGRAPHS OF SURF CONDITIONS



Rainbow Bay, 10 August 2011 (source: Swellnet Surf)



Duranbah, 11 August 2011 (source: Swellnet Surf Report)



Greenmount, 11 August 2011 (source: Swellnet Surf)



Coolangatta, 22 August 2011 (source: [www.goldcoast.com.au](http://www.goldcoast.com.au))



Coolangatta, 22 August 2011 (source: [www.goldcoast.com.au](http://www.goldcoast.com.au))



Coolangatta, 22 August 2011 (source: [www.goldcoast.com.au](http://www.goldcoast.com.au))

## SURF REPORT OVERVIEW

DATE	SURF	DIRECTION	COMMENTS
1	Clean, 0.3-0.6m	SE	Small waves and early light SW winds.
2	Clean, 0.3-0.6m	SE	Almost a carbon copy of yesterday, with small surf and early light offshore winds. Just another day of tiny uninspiring winter waves along the Gold Coast.
3	Clean, 0.3-0.45m	E	The high tide is swallowing what little peelers were breaking early this morning.
4	Clean, 0.3-0.45m	E	The high tide is swallowing what little peelers were breaking early this morning
5	Clean, 0.3-0.6m	SE	Another day with small peaky waves and early light winds
7	Peaky, 0.6-0.9m	SE	Great waves along the beachbreaks today (particularly south of the border).
9	Peaky, 0.3-0.6m	SE	Clean across the beachies with light NW winds. Nothing happening on the points due to the wind.
10	Clean, 0.3-0.6m	SE	Try Snapper to Greenmount mid to late morning, but don't expect much
11	Glassy, 0.3-0.6m	ESE	Less swell around today. Try the open beachies early, D'bah to Palmy.
15	Clean, 0.3-0.45m	SSE	The surf has little pulse and the points have tiny peelers
16	Clean, 0.3-0.45m	SSE	Carbon copy of yesterday.
17	Clean, 0.6-0.9m	SE	0.6m to nearly 0.9m sets breaking out the back of Snapper with consistent 0.9m around the corner at D'bah
18	Choppy, 0.9m	SE	Size is around 0.9m on the points, with bigger 1.2m sets at D'bah and exposed spots.
19	Clean, 0.6m	SE	0.3-0.6m peelers breaking down the points, with the odd bigger set round at D'bah.
23	Bumpy, 1.8m	SE	Conditions aren't as clean as yesterday morning but they're still pretty bloody good
24	Clean, 1.8m	SE	Slightly cleaner conditions out the back of Snapper with a solid 1.5-1.8m+ swell still pushing through. Wave heights back off gradually as you make your run towards Kirra.
25	Clean, 1.2-1.5m	ESE	Pumping! Conditions are near perfect with a SSW wind, and it's heavily populated.
26	Clean, 0.9m	ESE	Into the backend of this swell now with sets in the 1.2m range becoming rarer, with 0.9m waves the norm.
29	Clean, 0.3-0.6m	SE	Another day of small waves
30	Peaky, 0.3-0.45m	SE	Very tiny and uninteresting this morning
31	Clean, 0.3-0.45m	SE	Tiny beachbreaks once again with very little happening across most of the coast

**Source:** Swellnet - Coolangatta Surf Report

Generally, August experienced mostly calm to average sea conditions with larger storm swells from 22<sup>nd</sup> to 24<sup>th</sup>.

**END**