

# TWEED SAND BYPASSING

## Dredging Overview

<b>Stage 1 (26 Apr 1995 to 26 May 1998)</b>	<b>3,047,549 m<sup>3</sup></b>
Stage 2 Pre-commissioning Dredging (1 April 2000 to 29 Apr 2001)	532,517 m <sup>3</sup>
Stage 2 Operations Dredging Campaign 1 (11 May 2001 to 6 Nov 2001)	289,972 m <sup>3</sup>
Stage 2 Operations Dredging Campaign 2 (20 May 2002 to 20 Oct 2002)	240,129 m <sup>3</sup>
Stage 2 Operations Dredging Campaign 3 (7 Feb 2003 to 28 Sep 2003)	230,892 m <sup>3</sup>
Stage 2 Operations Dredging Campaign 4 (7 July 2004 to 30 Sep 2004)	169,926 m <sup>3</sup>
Stage 2 Operations Dredging Campaign 5 (22 May 2005 to 30 Sep 2005)	199,059 m <sup>3</sup>
Stage 2 Operations Dredging Campaign 6 (23 May 2006 to 28 Sep 2006)	200,298 m <sup>3</sup>
Stage 2 Operations Dredging Campaign 7 (17 May 2008 to 24 Sep 2008)	198,979 m <sup>3</sup>
Stage 2 Operations Dredging Campaign 8 (1 Dec 2011)	200 m <sup>3</sup>
Stage 2 Operations Dredging Campaign 9 (1 Apr 2016 to 31 May 2016)	41,938 m <sup>3</sup>
Stage 2 Operations Dredging Campaign 10 (2 Feb 2017 to 31 August 2017)	216,605 m <sup>3</sup>
<b>Total Stage 2 Dredging (April 2000 to 30 November 2017)</b>	<b>2,320,516 m<sup>3</sup></b>
<b>Total Dredging (Since 1995)</b>	<b>5,368,065 m<sup>3</sup></b>

\* Note: This includes 22,870.3 m<sup>3</sup> of sand delivered to Palm Beach from June 2005 to September 2005.

Note: Totals and subtotals are rounded up or down to the nearest cubic metre

# TWEED SAND BYPASSING

## Stage 2 Dredging Quantities (Commenced in April 2000)

Dredging Quantities (m <sup>3</sup> )											
Year	Month	Placement Areas									Total
		SR-E	SR-W	I-N	C-N	ONR-SR/E	ONR-SR/W	ONR-C	DBAH	PALM	
2000	April	59,146	0	0	0	0	0	0	0	0	59,146
	May	73,881	0	5,341	0	12,361	0	0	0	0	91,583
	June	24,686	0	0	0	35,032	0	0	0	0	59,718
	July	24,897	0	16,210	1,218	7,967	0	0	0	0	50,291
	August	17,283	0	0	32,499	2,017	0	0	0	0	51,799
	September	1,172	0	806	2,352	7,286	0	0	0	0	11,615
	October	0	0	0	0	0	0	0	0	0	0
	November	21,107	0	0	12,977	0	0	3,241	0	0	37,325
	December	15,095	1,184	0	424	4,501	12,136	11,467	0	0	44,806
	2000 total = 406,283										
2001	January	9,721	14,326	0	28,680	0	0	2,031	0	0	54,757
	February	0	0	0	12,616	0	0	8,656	0	0	21,271
	March	0	0	0	8,506	0	0	8,080	0	0	16,586
	April	0	0	7,922	7,260	8,416	6,381	3,641	0	0	33,620
	May	0	0	32,722	5,630	0	0	0	0	0	38,352
	June	0	4,644	10,413	44,854	0	0	2,089	0	0	62,000
	July	0	39,604	0	8,043	0	0	14,754	0	0	62,401
	August	0	11,030	13,518	0	0	29,389	12,730	0	0	66,667
	September	0	8,228	0	0	0	0	33,082	0	0	41,311
	October	0	0	0	0	0	0	8,840	0	0	8,840
	November	0	0	0	0	0	0	10,401	0	0	10,401
	December	0	0	0	0	0	0	0	0	0	0
2001 total = 416,206											
2002	January	0	0	0	0	0	0	0	0	0	0
	February	0	0	0	0	0	0	0	0	0	0
	March	0	0	0	0	0	0	0	0	0	0
	April	0	0	0	0	0	0	0	0	0	0
	May	28,686	0	0	0	0	0	0	0	0	28,686
	June	41,361	0	0	0	7,141	0	0	0	0	48,502
	July	23,878	0	0	0	3,762	0	0	0	0	27,640
	August	46,395	0	0	0	1,587	0	0	2,101	0	50,084
	September	23,827	5,856	0	0	4,623	12,689	0	9,229	0	56,224
	October	14,808	3,158	0	0	7,474	3,554	0	0	0	28,994
	November	0	0	0	0	0	0	0	0	0	0
	December	0	0	0	0	0	0	0	0	0	0
2002 total = 240,129											
2003	January	0	0	0	0	0	0	0	0	0	0
	February	26,027	0	0	0	0	0	0	9,765	0	35,792
	March	11,494	0	0	0	0	0	0	410	0	11,903
	April	0	0	0	0	0	0	0	0	0	0
	May	0	0	0	0	0	0	0	0	0	0
	June	25,259	0	0	0	0	0	0	0	0	25,259
	July	37,969	0	0	0	9,932	0	0	0	0	47,901
	August	14,239	22,414	6,373	10,727	0	1,662	416	0	0	55,830
	September	21,466	7,505	0	10,407	3,576	5,416	5,837	0	0	54,206
	October	0	0	0	0	0	0	0	0	0	0

	November	0	0	0	0	0	0	0	0	0	0
	December	0	0	0	0	0	0	0	0	0	0
<b>2003 total = 230,892</b>											
2004	January	0	0	0	0	0	0	0	0	0	0
	February	0	0	0	0	0	0	0	0	0	0
	March	0	0	0	0	0	0	0	0	0	0
	April	0	0	0	0	0	0	0	0	0	0
	May	0	0	0	0	0	0	0	0	0	0
	June	0	0	0	0	0	0	0	0	0	0
	July	42,288	0	0	0	0	0	0	0	0	42,288
	August	39,916	1,788	0	0	9,034	0	0	20,594	0	71,332
	September	20,973	9,412	0	0	18,297	7,624	0	0	0	56,306
	October	0	0	0	0	0	0	0	0	0	0
	November	0	0	0	0	0	0	0	0	0	0
	December	0	0	0	0	0	0	0	0	0	0
<b>2004 total = 169,926</b>											
2005	January	0	0	0	0	0	0	0	0	0	0
	February	0	0	0	0	0	0	0	0	0	0
	March	0	0	0	0	0	0	0	0	0	0
	April	0	0	0	0	0	0	0	0	0	0
	May	12,493	0	0	0	0	0	0	0	0	12,493
	June	24,434	0	0	0	0	0	0	0	3,316.00	27,750
	July	39,844	0	0	0	4,681	0	0	0	7,105.50	51,630
	August	15,950	1,333	0	0	4,457	4,930	0	16,510	883.4	44,063
	September	2,252	34,135	893	2,212	4,386	7,679	0	0	#####	63,123
	October	0	0	0	0	0	0	0	0	0	0
	November	0	0	0	0	0	0	0	0	0	0
	December	0	0	0	0	0	0	0	0	0	0
<b>2005 total = 199,059</b>											
2006	January	0	0	0	0	0	0	0	0	0	0
	February	0	0	0	0	0	0	0	0	0	0
	March	0	0	0	0	0	0	0	0	0	0
	April	0	0	0	0	0	0	0	0	0	0
	May	22,520	0	0	0	0	0	0	0	0	22,520
	June	39,691	0	0	0	2,724	0	0	12,283	0	54,699
	July	30,402	0	0	0	912	0	0	6,356	0	37,670
	August	34,078	0	0	0	9,068	0	0	0	0	43,146
	September	17,735	0	0	0	0	22,702	1,826	0	0	42,263
	October	0	0	0	0	0	0	0	0	0	0
	November	0	0	0	0	0	0	0	0	0	0
	December	0	0	0	0	0	0	0	0	0	0
<b>2006 total = 200,298</b>											
2007	January	0	0	0	0	0	0	0	0	0	0
	February	0	0	0	0	0	0	0	0	0	0
	March	0	0	0	0	0	0	0	0	0	0
	April	0	0	0	0	0	0	0	0	0	0
	May	0	0	0	0	0	0	0	0	0	0
	June	0	0	0	0	0	0	0	0	0	0
	July	0	0	0	0	0	0	0	0	0	0
	August	0	0	0	0	0	0	0	0	0	0
	September	0	0	0	0	0	0	0	0	0	0
	October	0	0	0	0	0	0	0	0	0	0
	November	0	0	0	0	0	0	0	0	0	0
	December	0	0	0	0	0	0	0	0	0	0
<b>2007 total = 0</b>											
	January	0	0	0	0	0	0	0	0	0	0
	February	0	0	0	0	0	0	0	0	0	0
	March	0	0	0	0	0	0	0	0	0	0
	April	0	0	0	0	0	0	0	0	0	0

2008	May	0	0	0	0	0	0	0	19,791	0	19,791
	June	16,269	0	0	0	0	0	0	42,860	0	59,129
	July	27,568	0	0	0	0	0	0	30,685	0	58,253
	August	14,418	0	0	0	0	0	0	0	0	14,418
	September	13,775	0	0	0	0	0	0	33,613	0	47,389
	October	0	0	0	0	0	0	0	0	0	0
	November	0	0	0	0	0	0	0	0	0	0
	December	0	0	0	0	0	0	0	0	0	0
2008 total = 198,979											
2009	January	0	0	0	0	0	0	0	0	0	0
	February	0	0	0	0	0	0	0	0	0	0
	March	0	0	0	0	0	0	0	0	0	0
	April	0	0	0	0	0	0	0	0	0	0
	May	0	0	0	0	0	0	0	0	0	0
	June	0	0	0	0	0	0	0	0	0	0
	July	0	0	0	0	0	0	0	0	0	0
	August	0	0	0	0	0	0	0	0	0	0
	September	0	0	0	0	0	0	0	0	0	0
	October	0	0	0	0	0	0	0	0	0	0
	November	0	0	0	0	0	0	0	0	0	0
	December	0	0	0	0	0	0	0	0	0	0
2009 total = 0											
2010	January	0	0	0	0	0	0	0	0	0	0
	February	0	0	0	0	0	0	0	0	0	0
	March	0	0	0	0	0	0	0	0	0	0
	April	0	0	0	0	0	0	0	0	0	0
	May	0	0	0	0	0	0	0	0	0	0
	June	0	0	0	0	0	0	0	0	0	0
	July	0	0	0	0	0	0	0	0	0	0
	August	0	0	0	0	0	0	0	0	0	0
	September	0	0	0	0	0	0	0	0	0	0
	October	0	0	0	0	0	0	0	0	0	0
	November	0	0	0	0	0	0	0	0	0	0
	December	0	0	0	0	0	0	0	0	0	0
2010 total = 0											
2011	January	0	0	0	0	0	0	0	0	0	0
	February	0	0	0	0	0	0	0	0	0	0
	March	0	0	0	0	0	0	0	0	0	0
	April	0	0	0	0	0	0	0	0	0	0
	May	0	0	0	0	0	0	0	0	0	0
	June	0	0	0	0	0	0	0	0	0	0
	July	0	0	0	0	0	0	0	0	0	0
	August	0	0	0	0	0	0	0	0	0	0
	September	0	0	0	0	0	0	0	0	0	0
	October	0	0	0	0	0	0	0	0	0	0
	November	0	0	0	0	0	0	0	0	0	0
	December	0	0	0	0	0	0	0	0	200	0
2011 total = 200											
2012	January	0	0	0	0	0	0	0	0	0	0
	February	0	0	0	0	0	0	0	0	0	0
	March	0	0	0	0	0	0	0	0	0	0
	April	0	0	0	0	0	0	0	0	0	0
	May	0	0	0	0	0	0	0	0	0	0
	June	0	0	0	0	0	0	0	0	0	0
	July	0	0	0	0	0	0	0	0	0	0
	August	0	0	0	0	0	0	0	0	0	0
	September	0	0	0	0	0	0	0	0	0	0
	October	0	0	0	0	0	0	0	0	0	0
	November	0	0	0	0	0	0	0	0	0	0

	December	0	0	0	0	0	0	0	0	0	0
<b>2012 total = 0</b>											
2013	January	0	0	0	0	0	0	0	0	0	0
	February	0	0	0	0	0	0	0	0	0	0
	March	0	0	0	0	0	0	0	0	0	0
	April	0	0	0	0	0	0	0	0	0	0
	May	0	0	0	0	0	0	0	0	0	0
	June	0	0	0	0	0	0	0	0	0	0
	July	0	0	0	0	0	0	0	0	0	0
	August	0	0	0	0	0	0	0	0	0	0
	September	0	0	0	0	0	0	0	0	0	0
	October	0	0	0	0	0	0	0	0	0	0
	November	0	0	0	0	0	0	0	0	0	0
	December	0	0	0	0	0	0	0	0	0	0
<b>2013 total = 0</b>											
2014	January	0	0	0	0	0	0	0	0	0	0
	February	0	0	0	0	0	0	0	0	0	0
	March	0	0	0	0	0	0	0	0	0	0
	April	0	0	0	0	0	0	0	0	0	0
	May	0	0	0	0	0	0	0	0	0	0
	June	0	0	0	0	0	0	0	0	0	0
	July	0	0	0	0	0	0	0	0	0	0
	August	0	0	0	0	0	0	0	0	0	0
	September	0	0	0	0	0	0	0	0	0	0
	October	0	0	0	0	0	0	0	0	0	0
	November	0	0	0	0	0	0	0	0	0	0
	December	0	0	0	0	0	0	0	0	0	0
<b>2014 total = 0</b>											
2015	January	0	0	0	0	0	0	0	0	0	0
	February	0	0	0	0	0	0	0	0	0	0
	March	0	0	0	0	0	0	0	0	0	0
	April	0	0	0	0	0	0	0	0	0	0
	May	0	0	0	0	0	0	0	0	0	0
	June	0	0	0	0	0	0	0	0	0	0
	July	0	0	0	0	0	0	0	0	0	0
	August	0	0	0	0	0	0	0	0	0	0
	September	0	0	0	0	0	0	0	0	0	0
	October	0	0	0	0	0	0	0	0	0	0
	November	0	0	0	0	0	0	0	0	0	0
	December	0	0	0	0	0	0	0	0	0	0
<b>2015 total = 0</b>											
2016	January	0	0	0	0	0	0	0	0	0	0
	February	0	0	0	0	0	0	0	0	0	0
	March	0	0	0	0	0	0	0	0	0	0
	April	0	0	0	0	0	0	0	11,974	0	11,974
	May	0	0	0	0	0	0	0	29,964	0	29,964
	June	0	0	0	0	0	0	0	0	0	0
	July	0	0	0	0	0	0	0	0	0	0
	August	0	0	0	0	0	0	0	0	0	0
	September	0	0	0	0	0	0	0	0	0	0
	October	0	0	0	0	0	0	0	0	0	0
	November	0	0	0	0	0	0	0	0	0	0
	December	0	0	0	0	0	0	0	0	0	0
<b>2016 total = 41,938</b>											
	January	0	0	0	0	0	0	0	0	0	0
	February	12,443	0	0	0	0	0	0	0	0	12,443
	March	5,307	0	0	0	0	0	0	21,126	0	26,433
	April	5,409	0	0	0	0	0	0	12,839	0	18,248
	May	20,113	0	0	0	0	0	0	16,117	0	36,231

2017	June	22,897	0	0	0	0	0	0	31,547	0	54,443.60
	July	4,013	0	0	0	0	0	0	22,154	0	26,166.90
	August	6,426	0	0	0	0	0	0	36,214	0	42,639.20
	September	0	0	0	0	0	0	0	0	0	0
	October	0	0	0	0	0	0	0	0	0	0
	November	0	0	0	0	0	0	0	0	0	0
	December										
2017 total = 216,604.70											
	SR-E	SR-W	I-N	C-N	ONR-SR/E	ONR-SR/W	ONR-C	DBAH	PALM		
Totals	1,053,608	164,615	94,199	188,403	169,234	114,162	127,090	386,333	22,870	2,320,516	**
** Note: This includes sand delivered to Palm beach. From June to September 2005 a total of 22,870m <sup>3</sup> of sand was dredged from the Tweed River Entrance and deposited at Palm beach.											
* Note: Totals and subtotals are rounded up or down to the nearest cubic metre.											