

**ATTACHMENT 4**  
**GLEN COFFEE'S REFERENCE DOCUMENT**

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## Mobile Harbor Outer Bar Channel Dredging History (1980-2016)

(Source: USACE for the period 1980-2009 and estimated for the period 2010-2016 based on the average annual maintenance quantities reported for the preceding 30 years)

Dredging Date	Gross Quantity Dredged (yd <sup>3</sup> )	Disposal Area Used <sup>1/</sup>
Feb-Dec 1980	1,129,337	Ocean DA
Jan-Mar 1981	610,623	Ocean DA
Dec 1982-Jan 1983	312,408	Ocean DA
Jan-Nov 1984	559,607	Ocean DA
Aug-Oct 1985	1,386,536	Ocean DA
Jan-Feb 1987	656,089	Nearshore Feeder Berm
Feb 1989-May 1990	<sup>2/</sup> 6,755,352	Ocean DA
Aug-Sep 1992	466,607	Ocean DA
Nov-Dec 1995	621,172	Ocean DA
Aug-Dec 1997	710,996	Ocean DA
Sep-Oct 1998	1,279,780	Ocean DA
Aug-Sep 1999	71,380	Ocean DA
	54,600	SIBUA
May-Sep 1999	<sup>3/</sup> 3,061,598	SIBUA
Apr-Jul 2000	758,280	Ocean DA
Mar 2002-May 2002	92,820	SIBUA
Jun 2004	230,110	SIBUA
Oct 2004-Nov 2004	1,184,817	SIBUA
Oct 2004-Jan 2005	1,808,765	SIBUA and at Lighthouse
Aug 2005	67,555	SIBUA
Apr-Jun 2006	487,975	SIBUA
Aug 2007	1,083,860	SIBUA
Nov-Dec 2008	585,430	SIBUA
Sept-Nov 2009	942,817	SIBUA
2010-2016 (estimated)	3,523,698	SIBUA
<b>Total Dredged from Outer Bar Channel</b>		
	<b>29,442,209</b>	For 37 years 1980-2016
<b>Total Placed in Ocean DA</b>		
	<b>14,672,078</b>	For 37 years 1980-2016
<b>Total Placed at Nearshore Feeder Berm</b>		
	<b>656,089</b>	For 1987 only
<b>Total Placed in SIBUA or at Lighthouse</b>		
	<b>13,124,045</b>	For 37 years 1980-2016
<b>Average annual maintenance dredging quantity</b>		
	<b>503,385</b>	For 30 years 1980-2009

<sup>1/</sup> Ocean DA – EPA approved open water disposal site in the offshore Gulf of Mexico  
SIBUA – Sand Island Beneficial Use Area

<sup>2/</sup> New work deepening from 42 to 47 feet

<sup>3/</sup> New work deepening from 47 to 49 feet.

<sup>4/</sup> Excludes new work deepening in 1989-1990 and 1999

### **Method used to estimate maintenance dredging quantities 2010-2016 and total dredged 1980-2016:**

**Step 1:** 24,918,514 - (6,755,352 + 3,061,598) = 15,101,564 (O&M dredging only for 1980 through 2009)

**Step 2:** 15,101,564 ÷ 30 = 503,385 yd<sup>3</sup>/year average OM for 30-year period between 1980 and 2009

**Step 3:** 503,385 × 7 = **3,523,695 yd<sup>3</sup>** estimated as being dredged for 7-year period between 2010 and 2016

**Step 4:** 24,918,514 + 3,523,695 = **29,442,209 yd<sup>3</sup>** estimated dredged from Outer Bar Channel (1980 to 2016)