

5 November 2004

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## Historical Dredging at Treasure Island

Maintenance dredging was conducted in 1953 (238,000 Cubic Yards), in 1970 (272,000 Cubic Yards) and in 1985 (457,000 Cubic Yards). The 1985 dredging was the last maintenance dredging conducted at Treasure Island (Navy Public Notice dated 24 June 1991 for Permit No. 18965S48). It was noted in the public notice that the Navy had found that the relatively strong currents and deep water surrounding Treasure Island discourage shoaling in the existing berthing areas, and that a relatively small amount of maintenance dredging has been required at Treasure Island compared to other Navy facilities in the Bay. The exact scope (locations and depths) of these maintenance dredgings is unknown, but it is likely that it was primarily in the present day Pier 1 and Pier 12 areas.

It is not known whether or not there was any additional dredging associated with the construction of Pier 1 in the 1980's. (The construction plans for Pier 1 are available and might reference any construction dredging.)

On 19 April 1993, Permit No. 18965S48 was issued by the Army Corps of Engineers to the Navy for Maintenance Dredging at Treasure Island for a period ending on 1 April 1997. The permit authorized the Navy to remove 400,000 cubic yards of sediment during the first year, and 50,000 cubic yards of sediment during each the next four years. The quantities were based on dredging the entrance channel, turning basin and berthing areas at the Naval Station to maintain a depth of -10 feet MLLW to -35 feet MLLW with a two (2) foot overdredge allowance as shown in the drawings attached to the permit. The project depths were -35 feet MLLW at Pier 1, -18 feet MLLW at Pier 12 (now the Sailing Center), and -10 feet MLLW in a 100-foot wide channel to the Pier 2 Marina Dock. There was no other dredging in the project for Clipper Cove or the Marina other than the 10-foot deep channel. The dredged material would be barged to the Alcatraz Disposal Site (SF-11) for disposal. No dredging was conducted under this 1993 permit, so the 1985 dredging was the last maintenance dredging.

A hydrographic survey in 1989 indicated existing depths of -9 feet MLLW to -12 feet MLLW in the 100-foot wide channel across Clipper Cove to the Marina, so the amount of dredging to maintain a -10 foot deep channel in Clipper Cove was minimal.

No information regarding any other historical dredging of Clipper Cove or the Marina area has been identified. It is possible that since the Navy appears to have only berthed small craft west of Pier 12, that there was not a need for other dredging within Clipper Cove other than the 10 foot depth 100 foot wide channel from Pier 12 across Clipper Cove to the Marina main dock at the end of Pier 2.

The 20 February 1945 aerial photograph of Treasure Island, representing an era that was ostensibly the historical peak of military activity at Treasure Island, shows only small piers and small craft within Clipper Cove. Larger ship activity was located along the eastern side of Treasure Island and in the areas of present day Pier 1 and Pier 12.