

US Army Corps of Engineers
 San Francisco District
 1455 Market Street
 San Francisco, CA 94103

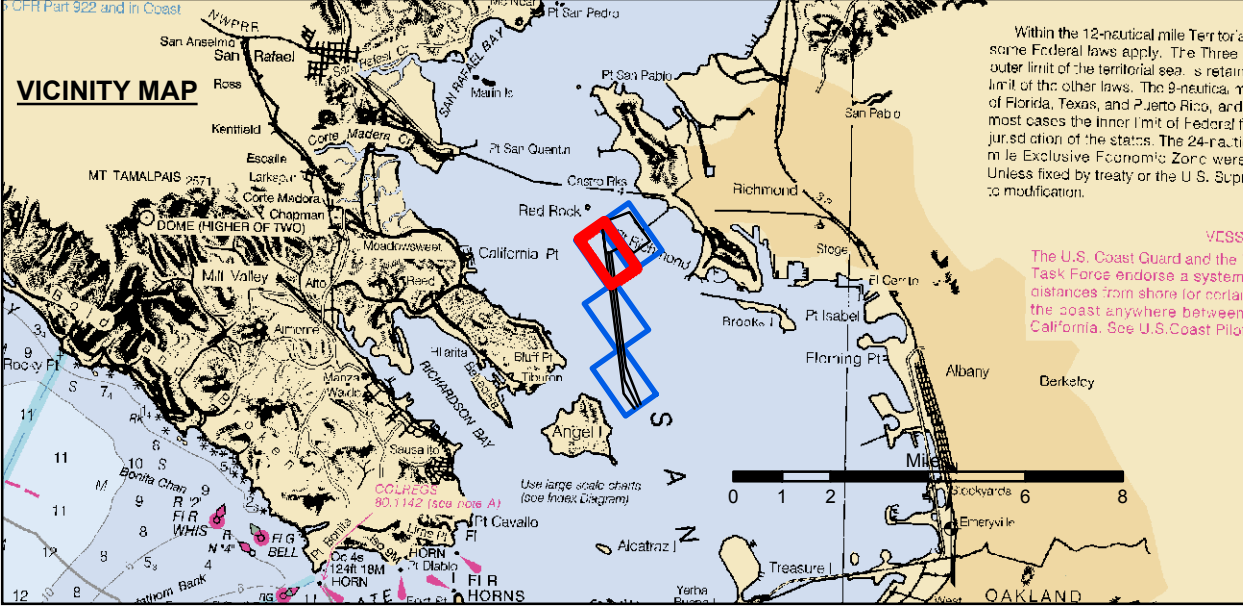
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LEGEND:

	-45'
	-44'
	-43'
	-42'
	-41'

Prepared Under the Direction of	JOHN C. MORROW	Chart Date	08 JULY 2014
Surveyed By	LT COLONEL C.E. DISTRICT ENGINEER	Designed by	PDT
Plotted By	Hydro Survey Team Leader	Checked By	PDT
Recommended	Chief, Hydro Survey Section	Drawn by	PDT
Approved	Chief, Construction Branch		

ALAMEDA COUNTY
 RICHMOND OUTER HARBOR
 SOUTHAMPTON SHOALS
 PREDREDGE SURVEY
 26 - 27 JUNE 2014



	Federal Navigation Channel		Beacon, General
	Shoaling Area		Obstruction Point
	Placement Area		Navigation Buoy
	Anchorage Area		Navigation Buoy
	Wreck Area		Shoalest Sounding*
	Submerged Wreck		
	Angle Point		

NOTES:
 HORIZONTAL COORDINATE SYSTEM:
 NORTH AMERICAN DATUM OF 1983 (NAD83), PROJECTED TO THE STATE PLANE COORDINATE SYSTEM (SPCS), CALIFORNIA ZONE III. DISTANCE UNITS IN U.S. SURVEY FEET.
 VERTICAL DATUM:
 SOUNDINGS ARE SHOWN IN FEET AND INDICATE DEPTHS BELOW MEAN LOWER LOW WATER.
 THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY CONDUCTED ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED TO REPRESENT THE GENERAL CONDITION EXISTING AT THAT TIME.
 SHOALEST SOUNDING PER QUARTER PER REACH
 DRAWING NOT TO BE USED FOR NAVIGATION.
 ONLY CHANNEL CONDITION AT DATE OF SURVEY.
 THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATION REPRESENT THE POSITION OF THE SINKER ONLY.
 SURVEYED BY THE CORPS OF ENGINEERS.
 SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY, NAVD 88.
 BASE MAPS ARE USDA NAIP 2010.
 THE PROJECT DEPTHS ARE AS FOLLOWS:
 SOUTHAMPTON SHOALS CHANNEL -46 FEET.
 LONG WHARF MANEUVERING AREA -45 FEET.
 1:00 INDICATED THE NUMBER AND BEGINNING OF A LINE OF SOUNDINGS.
 VERTICAL CONTROL
 (SOUTHAMPTON SHOALS & LONG WHARF MANEUVERING) BENCHMARK *10* 1937 ELEV 15.86 FT. MLLW.
 AND BENCHMARK *11* 1946 ELEV 15.47 FT. MLLW.
 TIDE GAUGE LOCATED AT TIBURON NET DEPOT.
 CONTROL:
 HORIZONTAL POSITIONING: COAST GUARD DGPS
 VERTICAL/TIDES: INTERPOLATED FROM NOAA ONLINE TIDE STATIONS:
 941 4863 - RICHMOND, CA
 941 4290 - SAN FRANCISCO, CA

PRELIMINARY ISSUE
 THIS PLAN ISSUED FOR
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