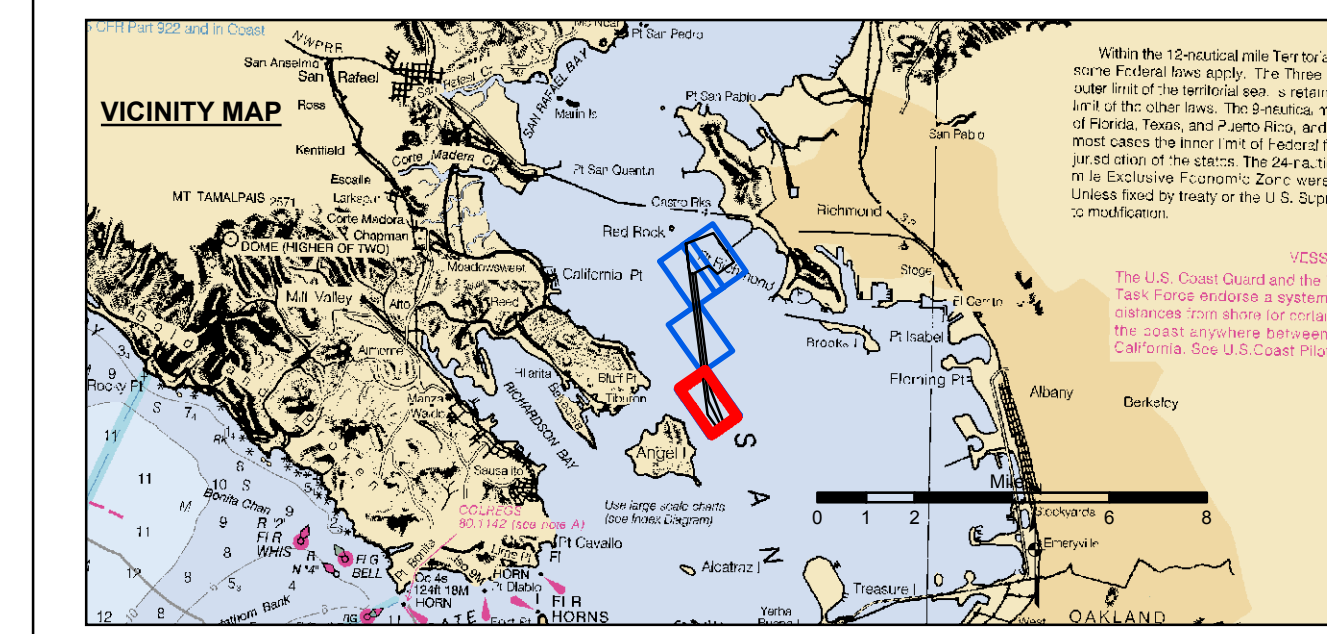


US Army Corps of Engineers
 San Francisco District
 1455 Market Street
 San Francisco, CA 94103

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Chart Date:	08 JULY 2014
Designed by:	PDT
Plotted by:	PDT
Checked by:	PDT
Approved:	Chief, Construction Branch



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

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.
 SHORTEST 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:
 SOUTHPONT SHOALS CHANNEL -46 FEET;
 LONG WHARF MANEUVERING AREA -45 FEET.
 1:00 INDICATED THE NUMBER AND BEGINNING OF A LINE OF SOUNDINGS.
 VERTICAL CONTROL
 (SOUTHPONT SHOALS & LONG WHARF MANEUVERING) BENCHMARK *1037 ELEV 15.86 FT. MLLW.
 AND BENCHMARK *111946 ELEV 15.47 FT. MLLW.
 TIDE GAUGE LOCATED AT TIBURON NET DEPOT.
 CONTROL
 HORIZONTAL POSITIONING: COAST GUARD DGPS
 VERTICALITIES: INTERPOLATED FROM NOAA ONLINE TIDE STATIONS:
 941 4863 - RICHMOND, CA
 941 4290 - SAN FRANCISCO, CA

PRELIMINARY ISSUE
 THIS PLAN ISSUED FOR
 ADVANCE INFORMATION ONLY

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

Sheet
 Reference
 Number
1 of 4