

| RICHMOND INNER HARBOR N.A.D 1983 FEET COORDINATES | | |
|--|------------|------------|
| CHANNEL \angle | EAST | NORTH |
| L1-1 | 6010314.28 | 2162197.51 |
| L1-2 | 6010702.46 | 2161282.52 |
| L1-3 | 6013071.04 | 2159051.01 |
| L1-4 | 6013946.57 | 2158590.79 |
| L1-5 | 6019811.99 | 2157565.50 |
| L1-6 | 6022179.38 | 2157068.47 |
| L1-7 | 6023175.24 | 2156977.58 |
| L1-8 | 6024071.72 | 2157243.76 |
| L1-9 | 6024244.63 | 2157572.06 |
| L1-10 | 6023863.13 | 2159896.61 |
| L1-11 | 6023718.07 | 2161814.06 |
| L1-12 | 6023659.10 | 2161929.33 |
| L1-13 | 6022203.51 | 2163156.86 |
| L1-14 | 6022332.43 | 2163309.73 |
| L1-15 | 6023871.49 | 2162011.81 |
| L1-16 | 6024470.69 | 2161806.34 |
| L1-17 | 6024629.99 | 2159700.65 |
| L1-18 | 6024794.33 | 2158699.33 |
| L1-19 | 6025096.44 | 2157620.99 |
| L1-20 | 6025133.92 | 2156630.24 |
| L1-21 | 6024797.57 | 2156256.37 |
| L1-22 | 6023187.74 | 2156366.30 |
| L1-23 | 6020299.03 | 2156972.78 |
| L1-24 | 6016426.10 | 2157649.80 |
| L1-25 | 6013280.69 | 2158029.15 |
| L1-26 | 6009479.89 | 2161610.01 |

| RICHMOND INNER HARBOR N.A.D 1983 FEET COORDINATES | | |
|--|------------|------------|
| CENTERLINE \angle | EAST | NORTH |
| C1 | 6009732.76 | 2161788.08 |
| C2 | 6010496.65 | 2161064.03 |
| C3 | 6012865.31 | 2158832.61 |
| C4 | 6013468.42 | 2158386.30 |
| C5 | 6013908.41 | 2158274.42 |
| C6 | 6016469.15 | 2157896.06 |
| C7 | 6019768.94 | 2157319.23 |
| C8 | 6020348.34 | 2157207.66 |
| C9 | 6022130.07 | 2156833.59 |
| C10 | 6023181.49 | 2156671.94 |
| C11 | 6024434.64 | 2156750.06 |
| C12 | 6024602.82 | 2156937.00 |
| C13 | 6024670.53 | 2157596.52 |
| C14 | 6024436.61 | 2158640.62 |
| C15 | 6024272.27 | 2159641.94 |
| C16 | 6024237.01 | 2159924.89 |
| C17 | 6024094.38 | 2161810.20 |
| C18 | 6023765.29 | 2161970.57 |
| C19 | 6022267.77 | 2163233.06 |

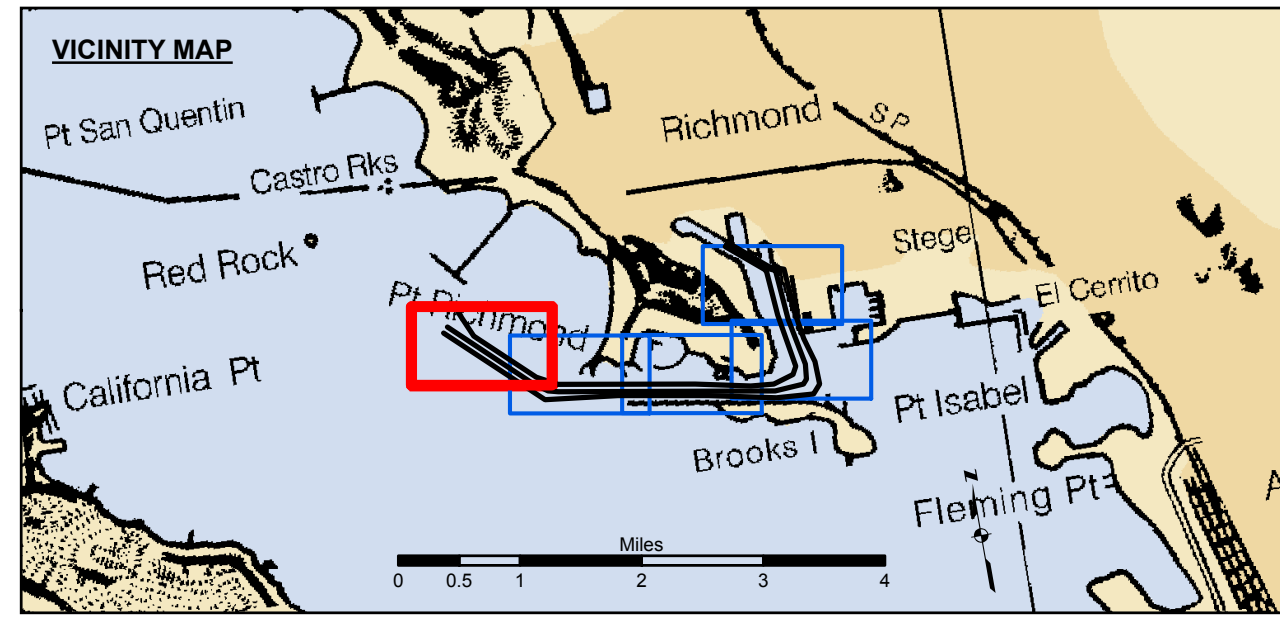
US Army Corps of Engineers
San Francisco District
1455 Market Street
San Francisco, CA 94103

DISCLAIMER
The United States Government furnishes this information for the purpose of providing accurate and reliable data for the user's intended use. The user is responsible for the results of any application of the data for other than the intended purpose. The user is advised that the data are not to be used for navigation purposes. The user is advised that the data are not to be used for navigation purposes. The user is advised that the data are not to be used for navigation purposes.

| | | | |
|---------------------------------|-----------------------------|-------------|--------------|
| Prepared Under the Direction of | JOHN C. MORROW | Chart Date | Sep 10, 2014 |
| Submitted | Hydro Survey Team Leader | Designed by | PDT |
| Recommended | Chief, Hydro Survey Section | Checked by | PDT |
| Approved | Chief, Construction Branch | Drawn by | PDT |

ALAMEDA COUNTY
RICHMOND INNER HARBOR
CONDITION SURVEY
07 SEPTEMBER 2014

Sheet Reference Number
1 of 5



| | | |
|----------------------------|--------------------|----------|
| Federal Navigation Channel | Beacon, General | Contours |
| Shoaling Area | Obstruction Point | -38 |
| Placement Area | Navigation Buoy | -37 |
| Anchorage Area | Navigation Buoy | -36 |
| Wreck Area | Shoalest Sounding* | -35 |
| Submerged Wreck | | -34 |
| 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.
BASE MAPS ARE USDA NAIP 2010.
THE PROJECT DEPTHS ARE AS FOLLOWS:
INNER HARBOR CHANNEL -37.5 FEET.
SANTE FE CHANNEL -30 FEET.
(INNER HARBOR CHANNEL) BENCHMARK A-558 ELEV 15.81 FT. MLLW.
BENCHMARK #2 (1032) USCGS DISK OLD FORD PLANT 16.0825 FT. MLLW.
B.M. LS 2769 CITY OF RICHMOND DISK PAVEMENT 13.971 FT. MLLW.
TIDE GAGE LOCATION: MON B-1.
HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON.
VERTICAL CONTROL: BENCHMARK, MLLW ELEV., AGENCY