## RICHMOND INNER & OUTER HARBOR CHANNEL MAINTENANCE DREDGING PROJECT

CONTRA COSTA COUNTY, CALIFORNIA

## **GENERAL NOTES:**

- THIS IS NOT A BOUNDARY SURVEY
- USACE, SAN FRANCISCO DISTRICT (SPN) HYDROGRAPHIC SURVEY OBSERVATION DATES: INNER HARBOR CHANNEL, 2010 MAY 12-14 OUTER HARBOR CHANNEL, 2010 MAY 10-11 &13

INFORMATION DISPLAYED HEREON REFLECTS A "SNAP-SHOT" IN TIME OBSERVATION OF A DYNAMIC, FLUID PROJECT SITE. OBSERVATIONS MADE AT ANY OTHER TIME WILL REFLECT ENTIRELY DIFFERENT CONDITIONS

- SOUNDING ELEVATION OBSERVATION ACCRUED ERROR / ACCURACY: BENCHMARK POSITIONAL ERROR: 0.03' (+/-) REPORTED SINGLE BEAM FATHOMETER RESOLUTION: 0.1' (+/-) FACTORY
- CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83), BASED UPON THE NORTH AMERICAN DATUM (NAD 1983) LAMBERT CONFORMAL CONIC PROJECTION;
- CONFORMING TO NATIONAL MAP ACCURACY STANDARDS (NMAS) DATED: 1996 AUG 10

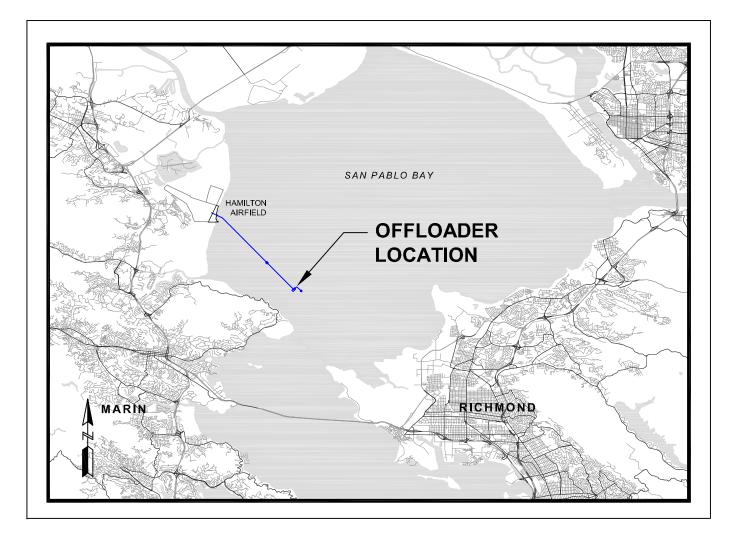
REACH 1: STA 0+79 TO 10+00 REACH 2: STA 10+00 TO 20+00

- REACH 3: STA 20+00 TO 30+00 REACH 4: STA 30+00 TO 40+00 REACH 5: STA 40+00 TO 50+00
- REACH 6: STA 50+50 TO 65+00 (DISPOSAL AT SF-DODS). REACH 7: STA 65+00 TO 80+00 (DISPOSAL AT SF-DODS).
- REACH 8: STA 80+00 TO 90+00 REACH 9: STA 90+00 TO 120+00 REACH 10: STA 120+00 TO 148+00
- REACH 11: STA 148+00 TO 161+00 REACH 12: STA 161+00 TO 172+5
- REACH 13: STA 172+51 TO 200+00 REACH 14: STA 200+00 TO 218+00 START DREDGING FROM REACH 14 TOWARDS THE OUTER HARBOR.

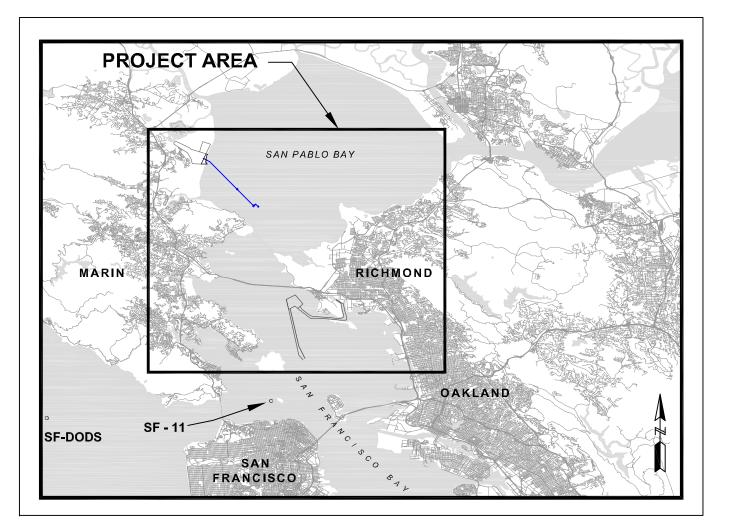
## CCEPTANCE REACHES (OUTER HARBOR CHANNEL): REACH 1: STA 0+00 TO 52+00

- REACH 2: STA 52+00 TO 118+00 REACH 3: STA 118+00 TO 171+79
- REACH 4: MANEUVERING AREA STA 0+00 TO 48+00
- USE THE SF-11 OR HAMILTON DISPOSAL SITE FOR MATERIAL DISPOSAL.

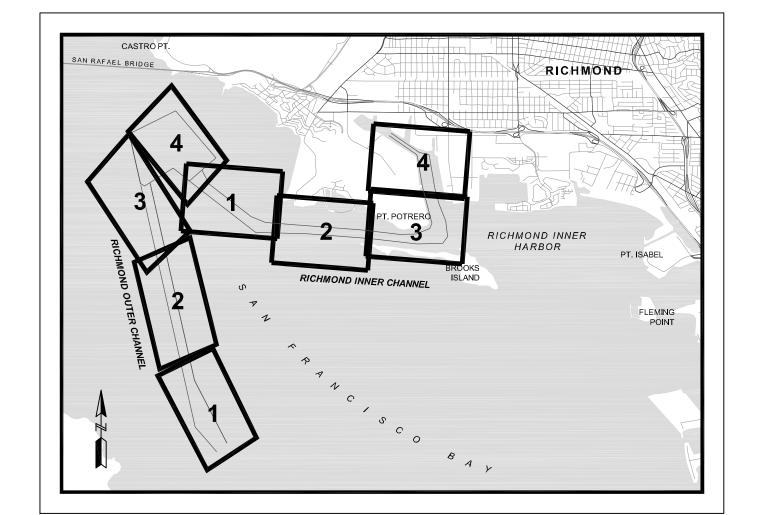
TIDE GAGE LOCATION: B-1, 14.07' MLLW.



HAMILTON DISPOSAL SITE NOT TO SCALE

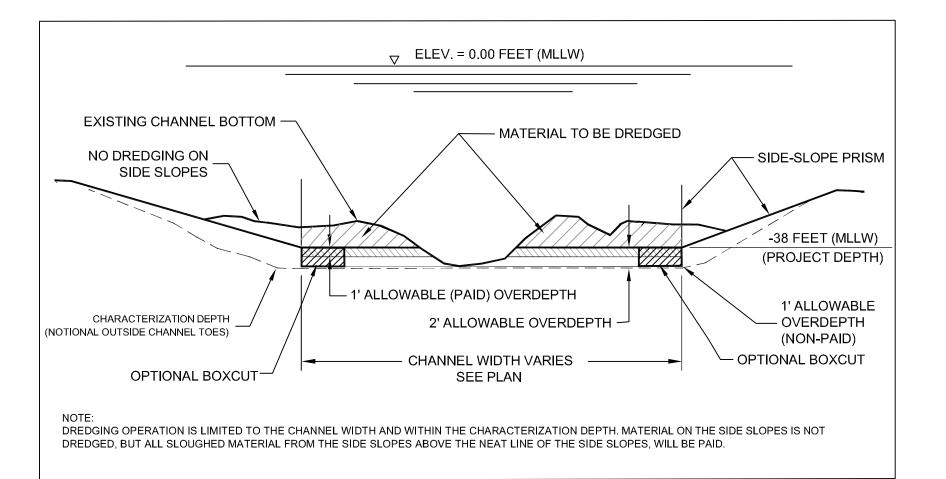


SF-DODS/SF-11 DISPOSAL SITE NOT TO SCALE

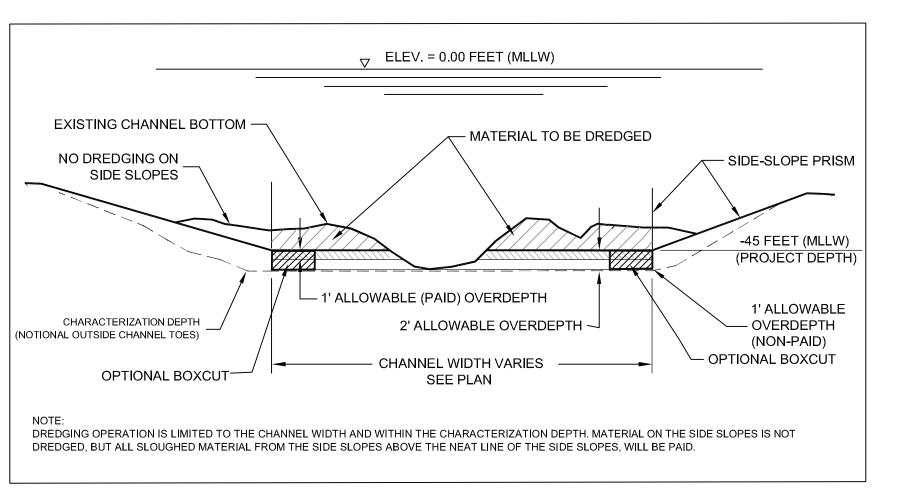


**LOCATION MAP** NOT TO SCALE

16.076 (NAVD88) 16.083(MLLW) 10.663(MHW) feet PUBLICATION DATE: 04/21/2003



TYPICAL DREDGING SECTION FOR INNER HARBOR CHANNEL NOT TO SCALE



TYPICAL DREDGING SECTION FOR OUTER HARBOR CHANNEL NOT TO SCALE

NOAA CHART: 18653 LATITUDE: 37° 54.6' N USGS QUAD: RICHMOND LONGITUDE: 122° 21.5' W DESIGNATION: TIDAL 2 STA III 22 MONUMENTATION: TIDAL STATION DISK VM#: 8447 AGENCY: US COAST AND GEODETIC SURVEY (USC&GS) PID#: HT0920 SETTING CLASSIFICATION: GRANITE FOUNDATION THE BENCH MARK IS A DISK SET VERTICALLY IN THE GRANITE FOUNDATION AT THE NORTHERN MOST ENTRANCE ON THE WEST SIDE OF THE OLD FORT PLANT, 6.13 M (20.1 FT) NORTH OF A 1 M (3 FT) TALL RED FIRE MAIN VALVE NEXT TO THE WEST WALL OF THE BUILDING, 3.87 M (12.7 FT) SOUTH OF THE NORTHERN MOST ENTRANCE ON THE WEST SIDE OF THE BUILDING AND 0.15 M (0.5 FT) ABOVE GROUND. TIDE GAUGE: USACE - B1, 14.07' MLLW.

RICHMOND INNER HARBOR, S.F. BAY CALIFORNIA VERTICAL CONTROL(INNER CHANNEL)

BENCH MARK STAMPING: BM 2 1932

STATION ID: 9414849

VERTICAL CONTROL (OUTER CHANNEL): FOR SOUTHAMPTON SHOALS & LONG WHARF MANEUVERING AREAS: BENCHMARK "10" (1937) USC&GS DISK ELEV. 15.86 FT. M.L.L.W. AND BENCHMARK "11" (1946) ELEV. 15.47 FT. M.L.L.W. TIDE GAUGE LOCATION (OUTER CHANNEL): AT TIBURON NET DEPOT. HORIZONTAL CONTROL(OUTER CHANNEL): COAST GUARD D-BEACON

> Sheet reference number

RICHMOND

of Engineers

San Francisco District 1455 Market Street San Francisco, CA 94103

M:\Branch\_Folders\Construction\HydroSurvey\New\_Hydro\_Folder\_Tree\_Mockup\HydroSurvey\Public\Hydro\_Resources\Basesheets\2010\Richmond\_Richmond\_Inner&Out\_Coversheet.dwg 14 Jun 2010 - 9:50am