**MARINE VEGETATION SURVEYS**



Sea Surveyor has been conducting marine vegetation surveys for environmental companies and regulatory agencies since the early 1990's. With our extensive experience and new high-resolution sonar equipment, Sea Surveyor can produce highly-accurate charts showing the spatial distribution and density of different species of marine vegetation, as well as water depth, sediment type, and size/shape of reefs.



Sea Surveyor locates and delineates reefs and areas of marine vegetation using a high-frequency side-scan sonar and a survey-grade fathometer. After the sonar data is interpreted aboard the survey boat, a detailed chart is produced that allow divers to immediately confirm the vegetation type, vegetation density, and reef height.



**REPRESENTATIVE PROJECTS**

2000: Side-scan sonar surveys along the San Diego County coastline to locate reefs and chart the

distribution and density of marine vegetation. **Client: *San Diego Association of Governments***.

1999: Diver surveys at US Coast Guard Station, San Diego for pre-dredge assessment of marine

vegetation. **Client: *United States Coast Guard, Civil Engineering Unit*.**

1996: Side-scan sonar and fathometer survey of the Port of Richmond Terminal 4 in San Francisco

Bay to identify and quantify areas with marine vegetation. **Client: *Wickland Oil* *Company*.**

1994: Sonar survey in Richmond Harbor to map the spatial distribution and density of eelgrass beds

in support of Channel Deepening Project. **Client: *Corps of Engineers, San Francisco District.***







Sonar Image of Artificial Reef with Sand Waves.

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Side-Scan Record showing Natural Reef with Giant Kelp (Macrocystis)

Fathometer Record showing

Seafloor with Kelp in Water Column