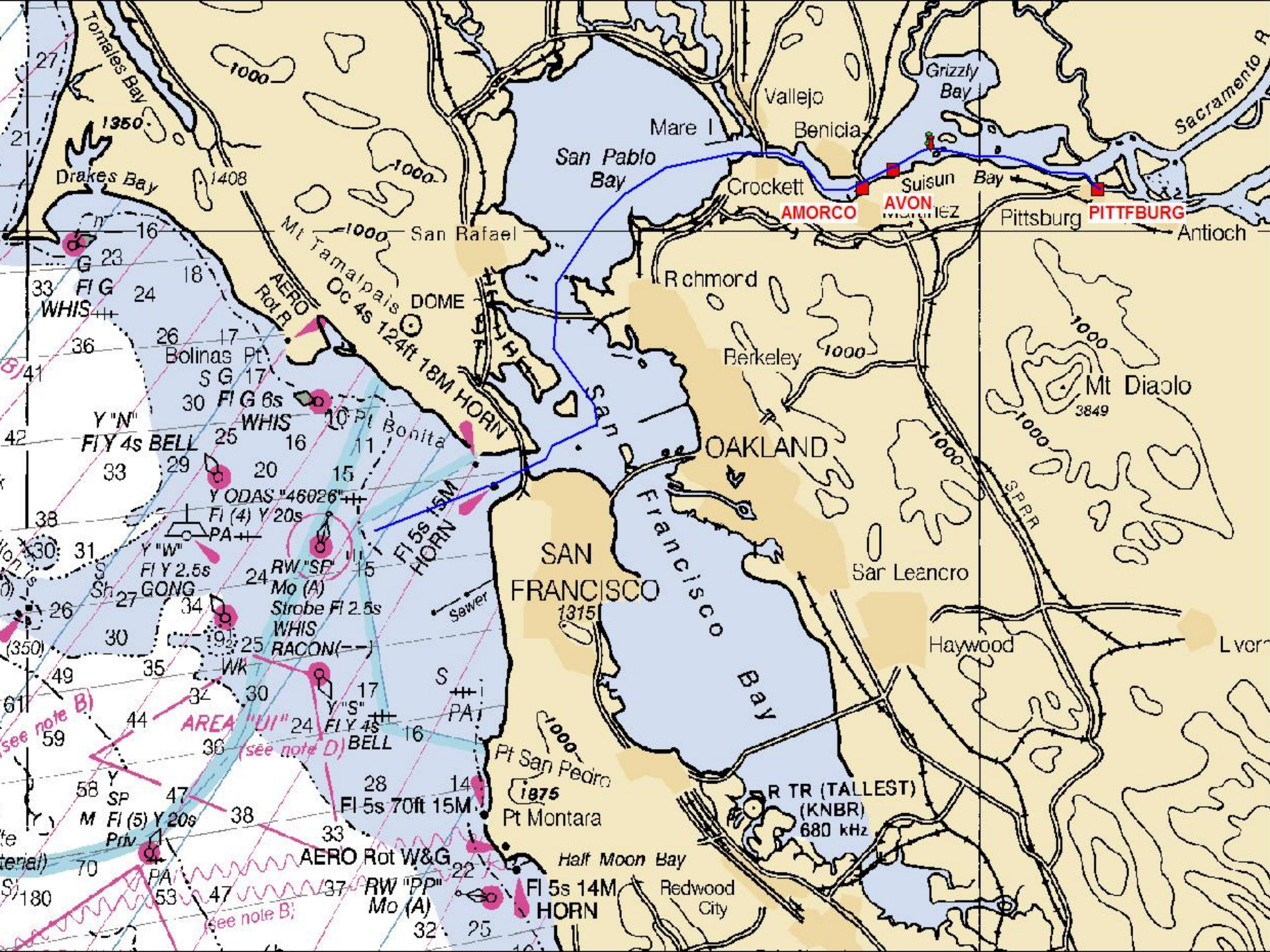
San Francisco Estuary


Tomales Bay
Drakes Bay
San Pablo Bay
Mare I
Vallejo
Benicia
Grizzly Bay
Sacramento R
Crockett
AMORCO
AVON
Suisun Bay
Martinez
Pittsburg
PITTFBURG
Antioch
San Rafael
Mt Tamalpais
DOME
Oc 4s 124ft 18M HORN
AERO Rot R
Richmond
Berkeley
Mt Diablo
3849
OAKLAND
San Francisco Bay
SAN FRANCISCO
1315
Bolinas Pt
Pt Bonita
Y "N"
Fl Y 4s BELL
Y ODAS "46026"
Fl (4) Y 20s
Y "W"
Fl Y 2.5s
GONG
RW "SF"
Mo (A)
Strobe Fl 2.5s
WHIS
RACON(— —)
Fl 5s 15M
HORN
Sewer
AREA "UI"
(see note D)
(see note B)
Y "S"
Fl Y 4s
BELL
Fl 5s 70ft 15M
AERO Rot W&G
RW "PP"
Mo (A)
Fl 5s 14M
HORN
Pt San Pedro
1875
Pt Montara
Half Moon Bay
Redwood City
Sar Leandro
Haywood
R TR (TALLEST)
(KNBR)
680 kHz
SPRR

Sediment flow from the Delta Sacramento and San Joaquin Rivers

LEGEND

▲ BENEFICIAL REUSE SITES /WETLANDRESTORATION SITES

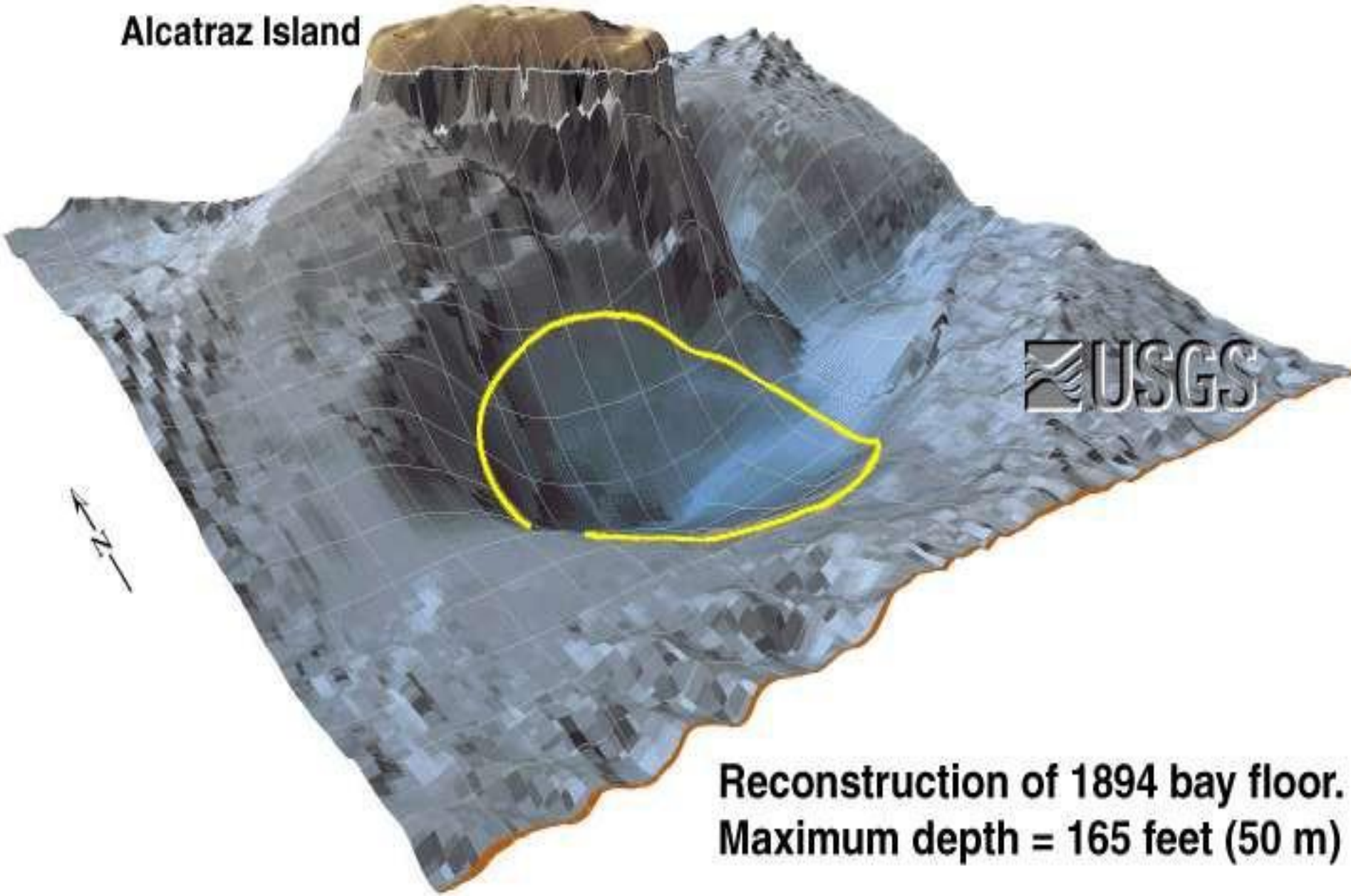
■ AQUATIC DISPOSAL SITES

OPERATIONS AND MAINTENANCE (O&M)

SAN FRANCISCO BAY
LONG TERM MANAGEMENT
STRATEGIC PLANNING AREA
CALIFORNIA

SAN FRANCISCO DISTRICT
SOUTH PACIFIC DIVISION

1 JANUARY 2007

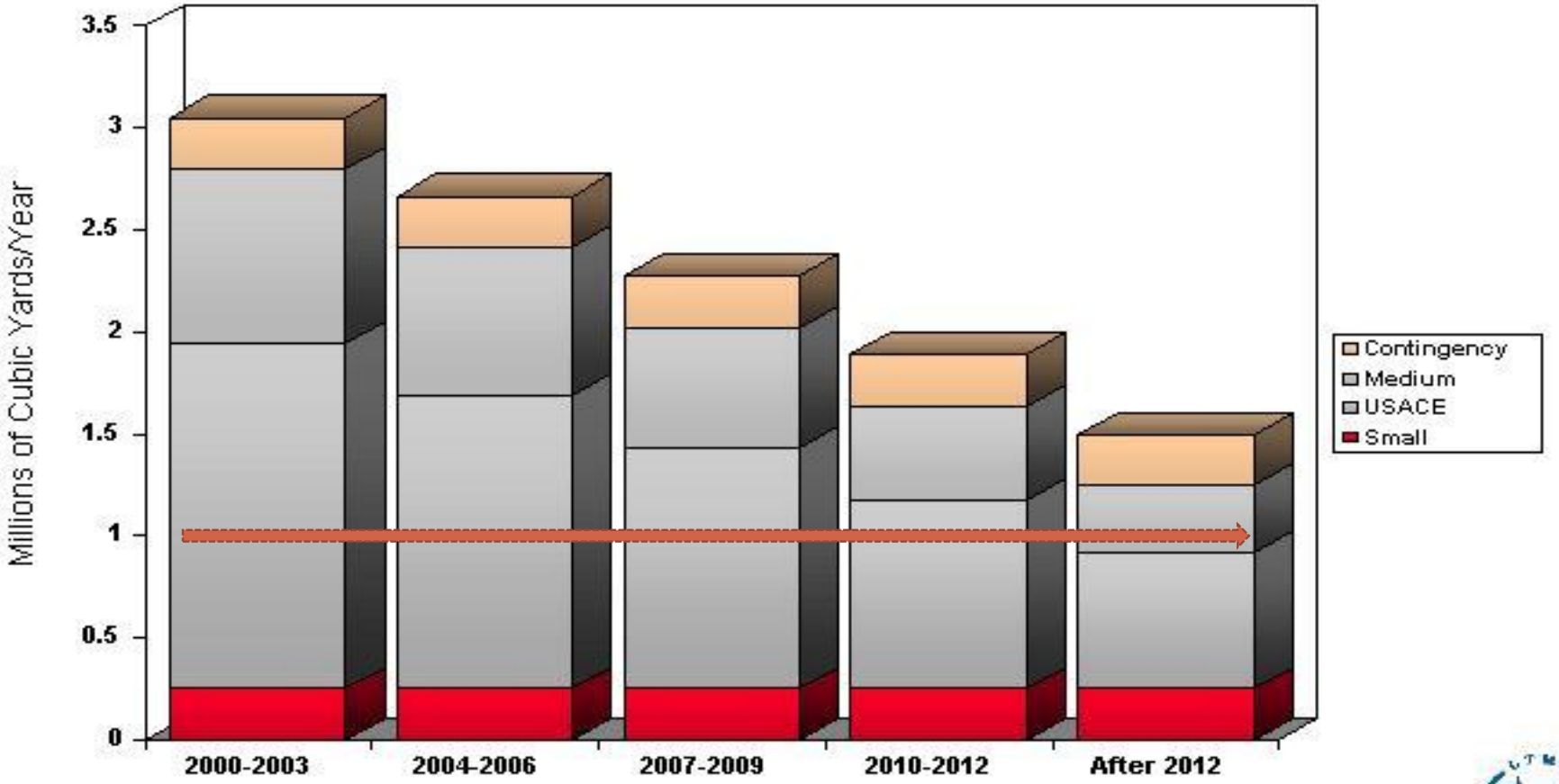


Reconstruction of 1894 bay floor.
Maximum depth = 165 feet (50 m)

Blockade at Alcatraz Disposal Site 1989

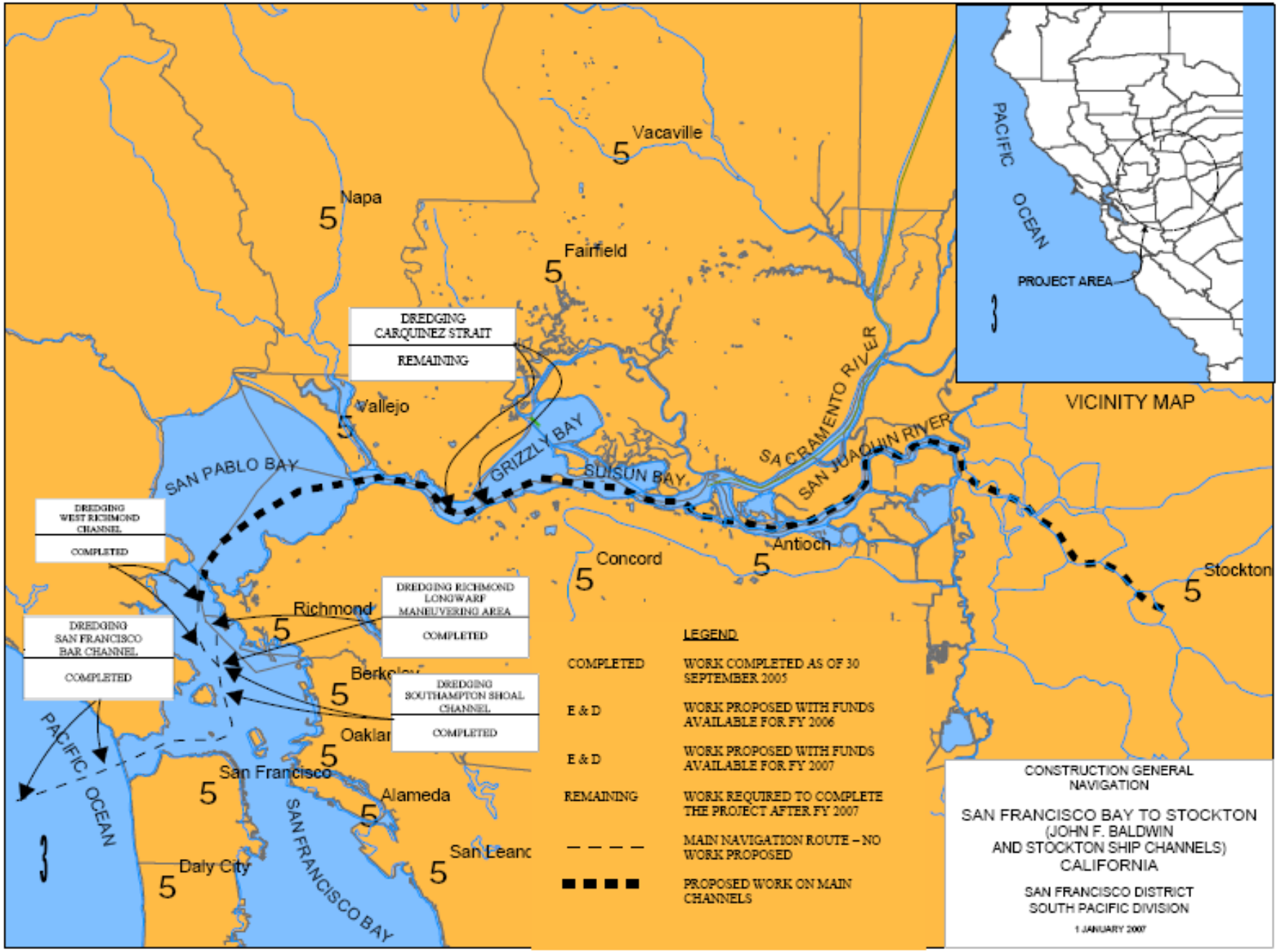
LTMS 2000-2012 1 mcy annually

Transition Targets

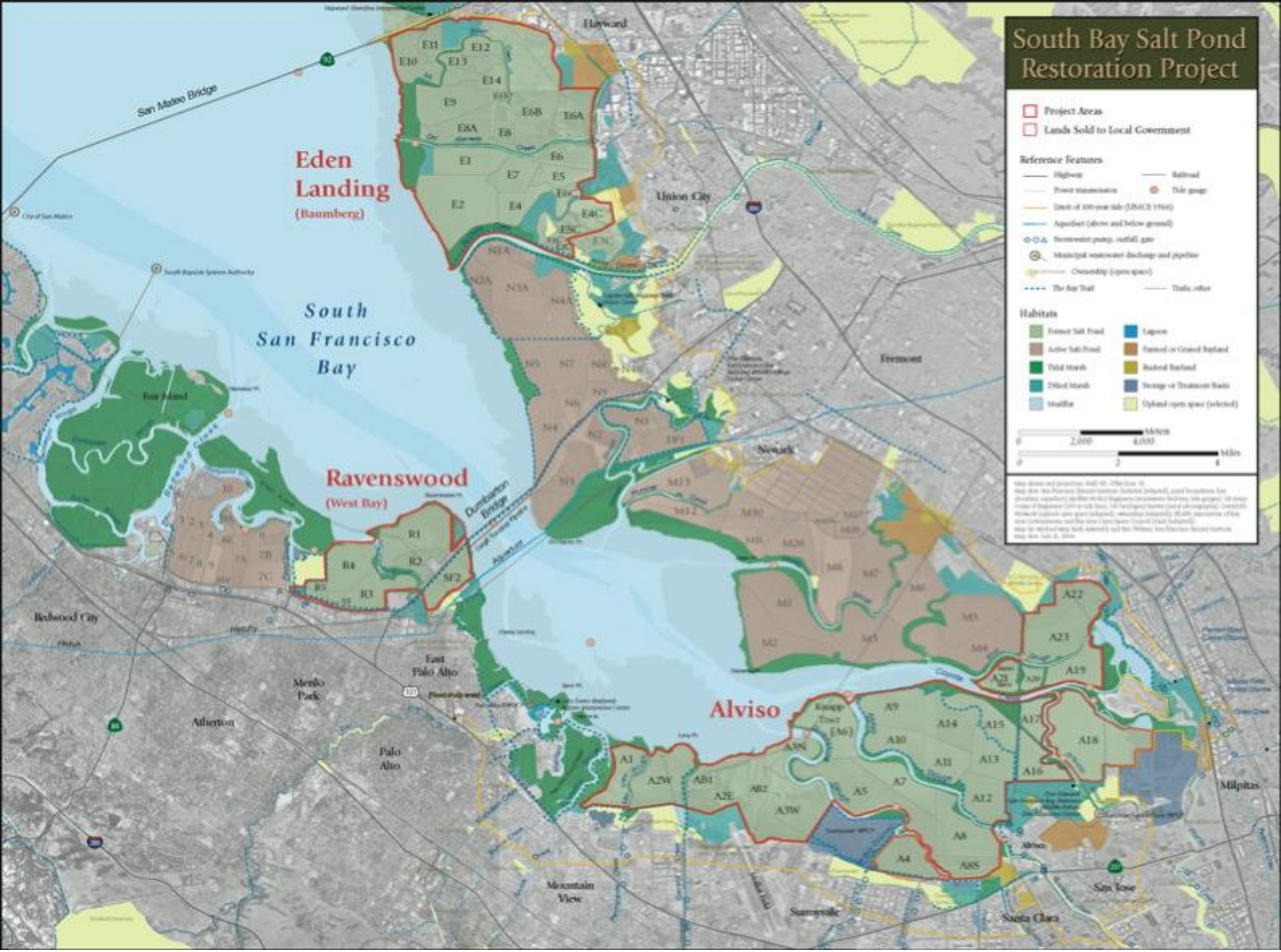


Montezuma Wetlands

Hamilton wetland restoration

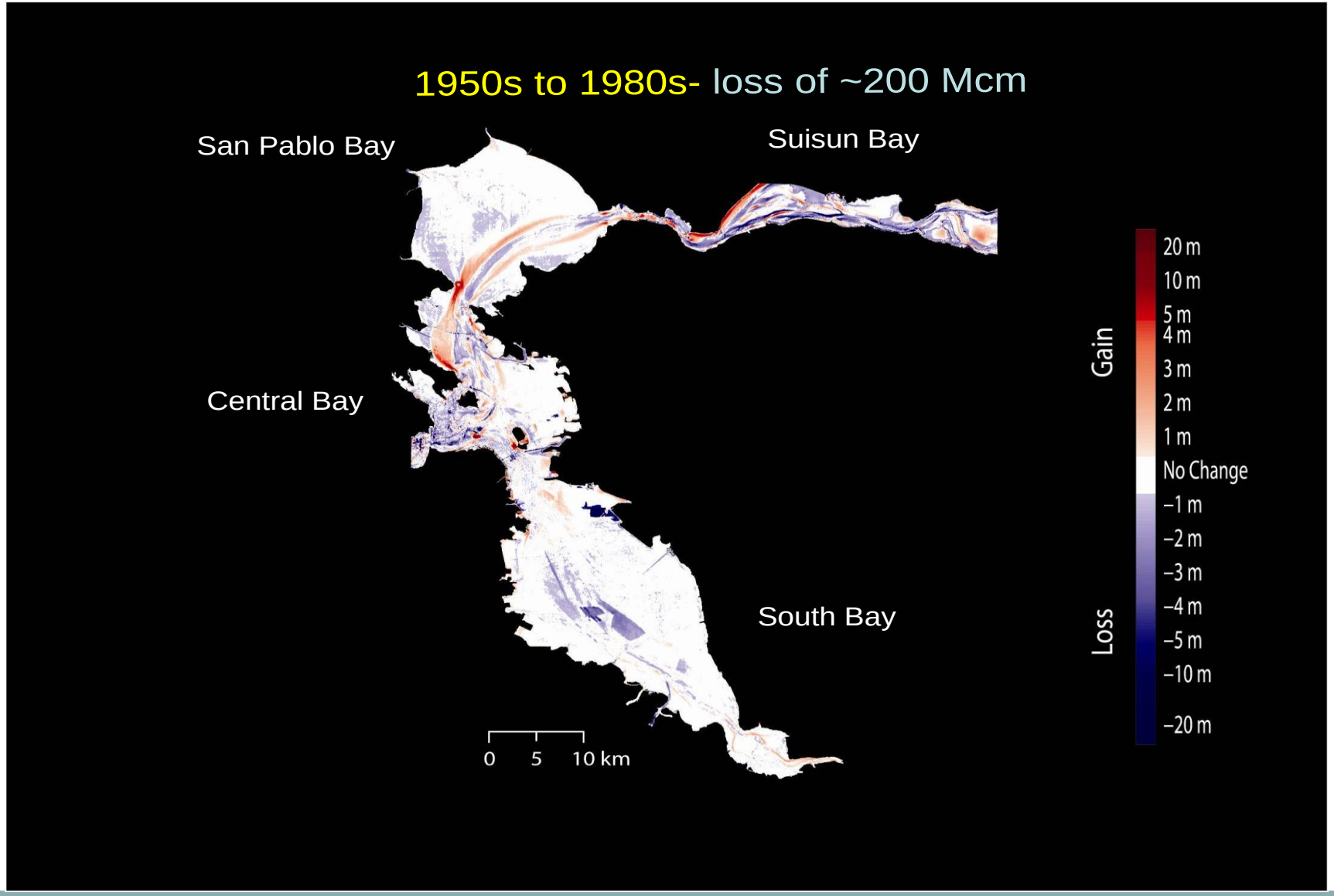

U.S. ARMY CORPS OF ENGINEERS
VICINITY MAP
PACIFIC OCEAN
PROJECT AREA
Vacaville
Napa
Fairfield
Vallejo
Concord
Antioch
Stockton
Richmond
Berkeley
Oakland
San Francisco
Alameda
San Leandro
Daly City
SAN PABLO BAY
GRIZZLY BAY
SUISUN BAY
SACRAMENTO RIVER
SAN JOAQUIN RIVER
SAN FRANCISCO BAY
DREDGING CARQUINEZ STRAIT
REMAINING
DREDGING WEST RICHMOND CHANNEL
COMPLETED
DREDGING SAN FRANCISCO BAR CHANNEL
COMPLETED
DREDGING RICHMOND LONGWARF MANEUVERING AREA
COMPLETED
DREDGING SOUTHAMPTON SHOAL CHANNEL
COMPLETED
LEGEND
COMPLETED WORK COMPLETED AS OF 30 SEPTEMBER 2005
E & D WORK PROPOSED WITH FUNDS AVAILABLE FOR FY 2006
E & D WORK PROPOSED WITH FUNDS AVAILABLE FOR FY 2007
REMAINING WORK REQUIRED TO COMPLETE THE PROJECT AFTER FY 2007
MAIN NAVIGATION ROUTE – NO WORK PROPOSED
PROPOSED WORK ON MAIN CHANNELS
CONSTRUCTION GENERAL
NAVIGATION
SAN FRANCISCO BAY TO STOCKTON
(JOHN F. BALDWIN
AND STOCKTON SHIP CHANNELS)
CALIFORNIA
SAN FRANCISCO DISTRICT
SOUTH PACIFIC DIVISION
1 JANUARY 2007

Port of Redwood City Bair Island Restoration South Bay Salt Ponds Restoration


South Bay Salt Pond Restoration Project
Project Areas
Lands Sold to Local Government
Reference Features
Highway
Railroad
Power transmission
Tide gauge
Limit of 100-year tide (FEMA 1996)
Aqueduct (above and below ground)
Stormwater pump, outfall, gate
Municipal wastewater discharge and pipeline
Ownership (open space)
The Bay Trail
Trails, other
Habitats
Former Salt Pond
Lagoon
Active Salt Pond
Farmed or Grazed Bayland
Tidal Marsh
Ruderal Bayland
Diked Marsh
Storage or Treatment Basin
Mudflat
Upland open space (selected)
Meters
0
2,000
4,000
Miles
0
2
4
Eden Landing
(Baumberg)
Ravenswood
(West Bay)
Alviso
South San Francisco Bay
San Mateo Bridge
Dumbarton Bridge
Hayward
Union City
Fremont
Newark
Redwood City
Menlo Park
Atherton
Palo Alto
East Palo Alto
Mountain View
Sunnyvale
Santa Clara
San Jose
Milpitas
Alviso
Bair Island
Knapp Tract (A6)
E1
E2
E4
E5
E6
E6A
E6B
E7
E8
E8A
E9
E10
E11
E12
E13
E14
E4C
E5C
N1A
N2A
N3A
N4A
N5
N6
N7
N8
N9
N1
N2
N3
N4
M1
M2
M3
M4
M5
M6
M7
M8
M9
M10
M11
M12
M13
M14
M15
M16
M17
M18
M19
M20
M21
M22
M23
M24
M25
M26
M27
M28
M29
M30
R1
R2
R3
R4
SF2
A1
A2W
A2E
A3W
A3E
A4
A5
A5S
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15
A16
A17
A18
A19
A20
A21
A22
A23

Salt ponds view from
an airplane

Bathymetric Change in S. F. Bay USGS



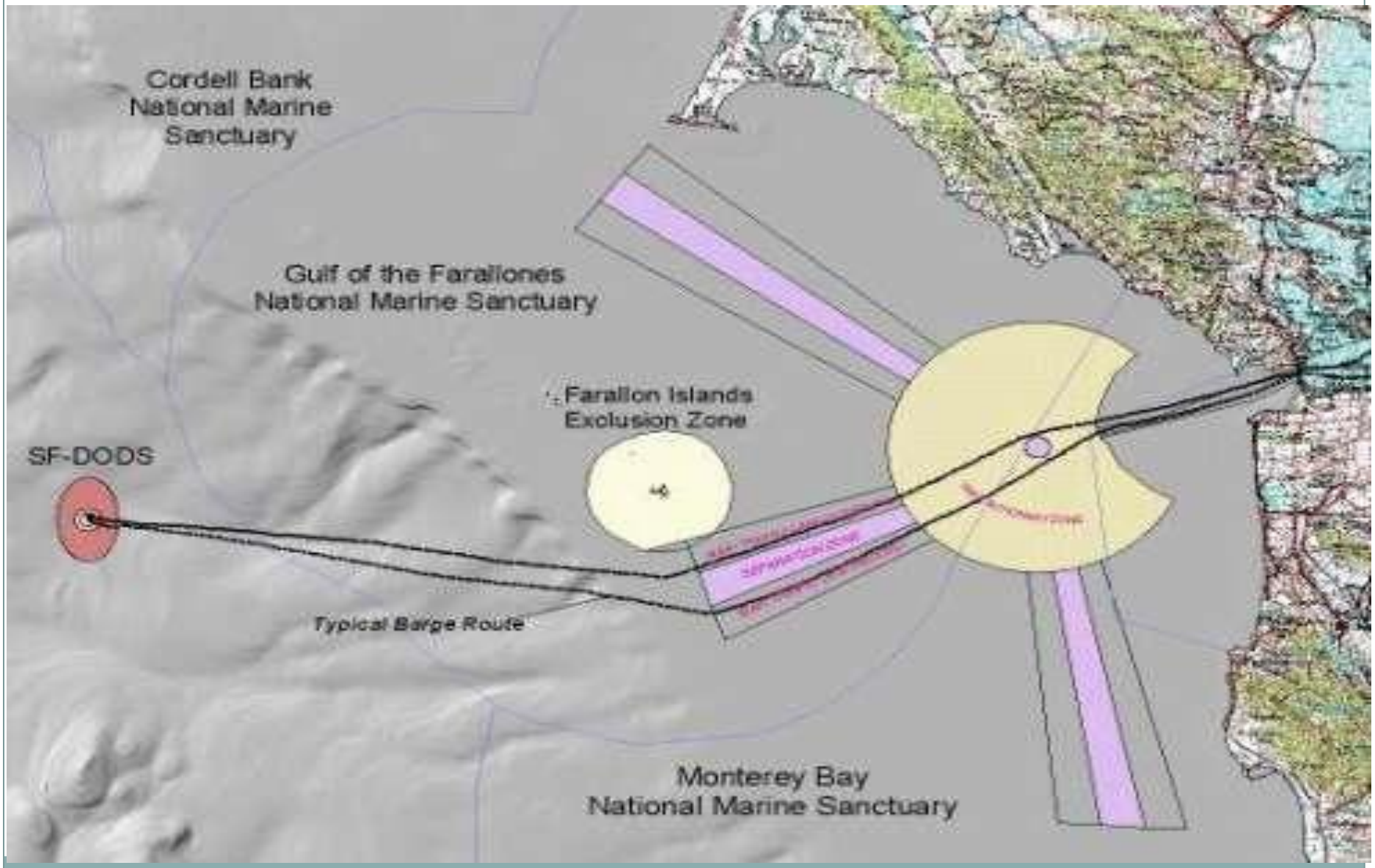
Lester McKee for Bruce Jaffe cont.

Latest information is historic (most recent period with data is ~1950s to ~1980s)

But does give a perspective on where erosion and deposition occurs in the Bay

- Bay erosion and deposition is spatially complex
- During the latest survey period, Bay saw net erosion

New survey data on bathymetry and texture could be analyzed to provide

- more up-to-date estimates of bathymetric change
- the basis for better modeling of sediment transport

S. F. Deepwater Ocean Disposal Site (55 miles)