Legend			
Federal Navigation Channel	Beacon, General	Contours	
Shoaling Area	Obstruction Point		-35
Placement Area	Navigation Buoy		-34
Anchorage Area	Navigation Buoy		-33
Wreck Area	Shoalest Sounding*		-32
Submerged Wreck			-31
Angle Point			

NOTES:

HORIZONTAL COORDINATE SYSTEM:
NORTH AMERICAN DATUM OF 1983 (NAD83), PROJECTED TO THE STATE PLANE COORDINATE SYSTEM (SPCS), CALIFORNIA ZONE II. DISTANCE UNITS IN U.S. SURVEY FEET.

VERTICAL DATUM:
SOUNDINGS ARE SHOWN IN FEET AND INDICATE DEPTHS BELOW MEAN LOWER LOW WATER.

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SURVEYED BY THE CORPS OF ENGINEERS.

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SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY, NAVD 88.

THE PROJECT DEPTH IS 35 FEET.

VERTICAL CONTROL:
SUISUN BAY CHANNEL
(LINES 00+00 TO 160+00) BENCHMARK "9" (1948), USC&GS DISK
ELEV 14.875 FT MLLW., NAVD 88 DATUM.
TIDE GAUGE LOCATED AT PORT OF BENICIA DOCK.

(LINES 150+00 TO 500+00) BENCHMARK "5144-P" (1990 RESET 1997),
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USC&GS DISK, ELEV 21.76 FT MLLW., NAVD 88 DATUM.
TIDE GAUGE LOCATED AT DIABLO SERVICE DOCK.

HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON

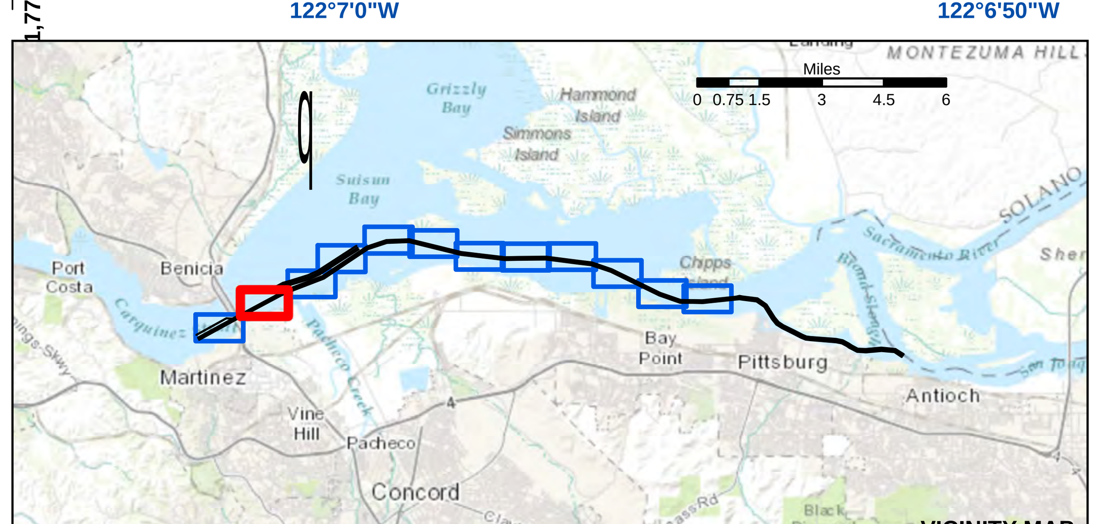
US Army Corps of Engineers®
San Francisco District
1455 Market Street
San Francisco, CA 94103

PREPARED UNDER THE DIRECTION OF JOHN C. MORROW LT. COLONEL, C.E., DISTRICT ENGINEER	Surveyed By:	Chart Date: Feb 21, 2017
Submitted: Hydro Survey Team Leader	Plotted By: PDT	Designed by:
Recommended: Chief, Hydro Survey Section	Checked By: PDT	Drawn by: PDT
Approved: Chief, Construction Branch		

CONTRA COSTA COUNTY CALIFORNIA

SUISUN BAY CHANNEL

CONDITION SURVEY
16-20 FEBRUARY 2017



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

- -35
- -34
- -33
- -32
- -31

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HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON

US Army Corps of Engineers
San Francisco District
1455 Market Street
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PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E., DISTRICT ENGINEER

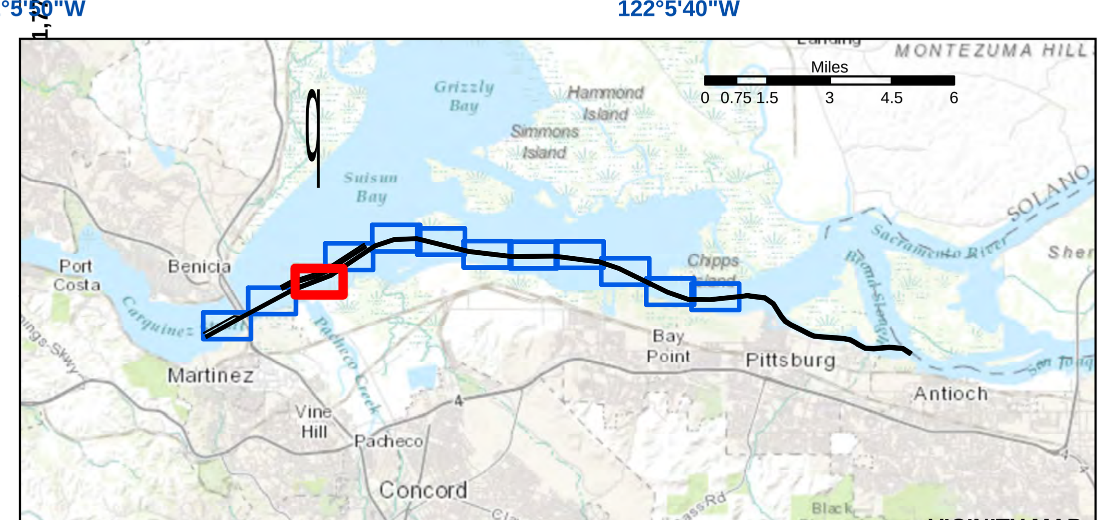
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

Surveyed By:	Chart Date: Feb 21, 2017
Plotted By: PDT	Designed by:
Checked By: PDT	Drawn by: PDT

CONTRA COSTA COUNTY — CALIFORNIA

SUISUN BAY CHANNEL

CONDITION SURVEY
16-20 FEBRUARY 2017



—	Federal Navigation Channel		Beacon, General
	Shoaling Area	¾	Obstruction Point
	Placement Area		Navigation Buoy
	Anchorage Area		Navigation Buoy
	Wreck Area		Shoalest Sounding*
	Submerged Wreck		
	Angle Point		

Contours

- -35
- -34
- -33
- -32
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HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON

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PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E., DISTRICT ENGINEER

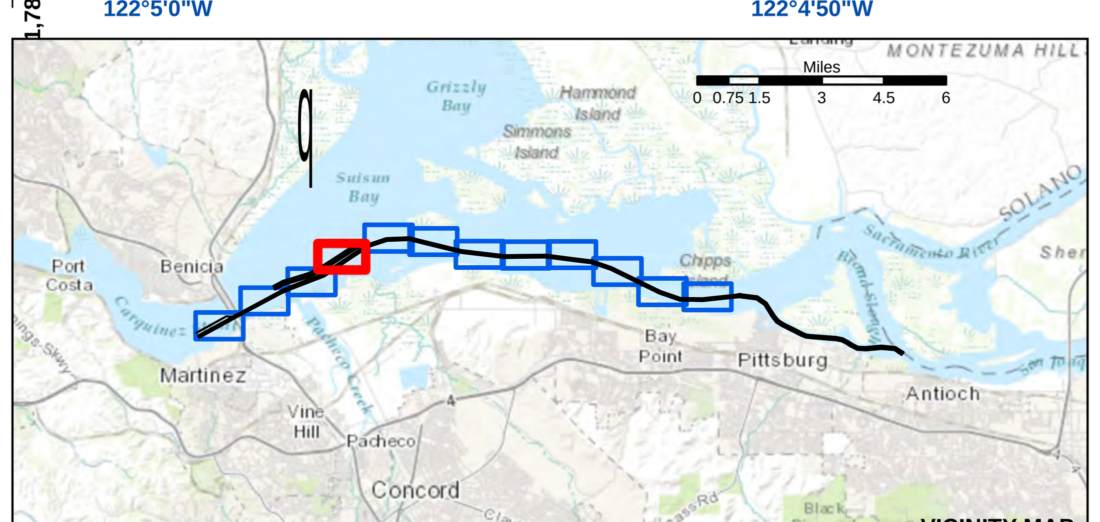
Submitted: Hydro Survey Team Leader	Surveyed By:	Chart Date: Feb 21, 2017
Recommended: Chief, Hydro Survey Section	Plotted By: PDT	Designed by:
Approved: Chief, Construction Branch	Checked By: PDT	Drawn by: PDT

CONTRA COSTA COUNTY — CALIFORNIA

SUISUN BAY CHANNEL

CONDITION SURVEY
16-20 FEBRUARY 2017

PRELIMINARY ISSUE
THIS PLAN ISSUED FOR
ADVANCE INFORMATION ONLY



Legend		Contours	
Federal Navigation Channel	Beacon, General	-35	
Shoaling Area	Obstruction Point	-34	
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Submerged Wreck			
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HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON

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

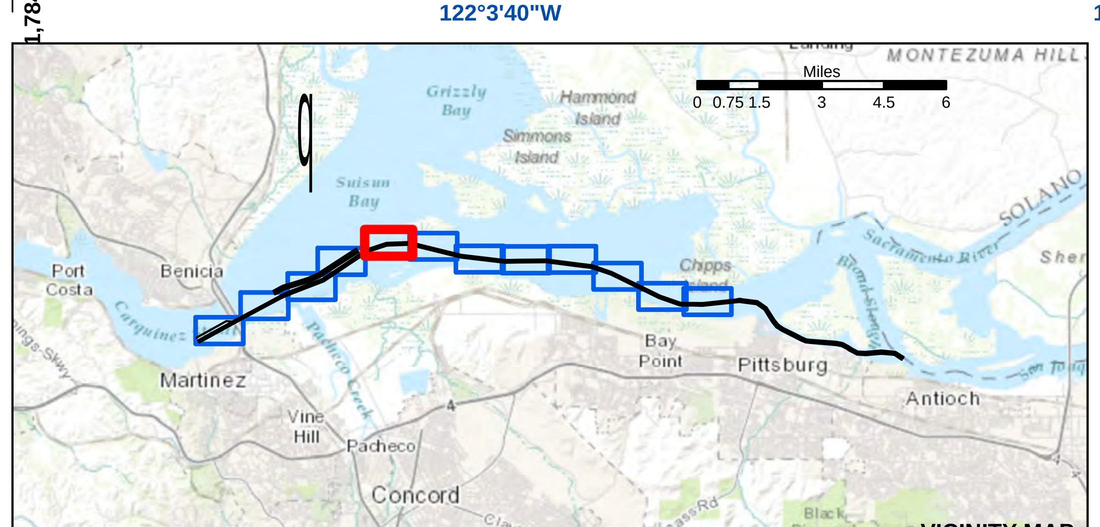
Chart Date: Feb 21, 2017
Designed by:
Drawn by: PDT
Surveyed By:
Plotted By: PDT
Checked By: PDT

PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT COLONEL, C.E., DISTRICT ENGINEER
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CALIFORNIA
CONTRA COSTA COUNTY
SUISUN BAY CHANNEL
CONDITION SURVEY
16-20 FEBRUARY 2017

CORPS OF ENGINEERS

U.S. ARMY



- Federal Navigation Channel
- Shoaling Area
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- Wreck Area
- Submerged Wreck
- Angle Point
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Contours

- -35
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San Francisco District
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PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT COLONEL, C.E., DISTRICT ENGINEER

Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CALIFORNIA
CONTRA COSTA COUNTY
SUISUN BAY CHANNEL
CONDITION SURVEY
16-20 FEBRUARY 2017

CORPS OF ENGINEERS U.S. ARMY

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

- -35
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NOTES:

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Submitted:
Hydro Survey Team Leader
Recommended:
Chief, Hydro Survey Section
Approved:
Chief, Construction Branch

Surveyed By:	Chart Date: Feb 21, 2017
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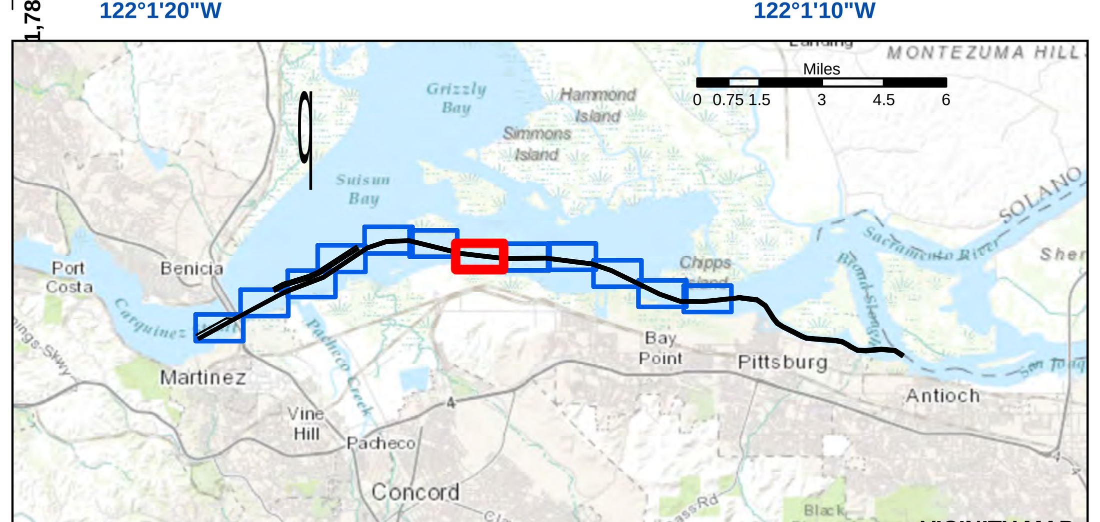
CONTRA COSTA COUNTY CALIFORNIA

SUISUN BAY CHANNEL

CONDITION SURVEY
16-20 FEBRUARY 2017



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Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CONTRA COSTA COUNTY CALIFORNIA

SUISUN BAY CHANNEL

CONDITION SURVEY
16-20 FEBRUARY 2017

Federal Navigation Channel	Beacon, General
Shoaling Area	Obstruction Point
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Contours

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USC&GS DISK, ELEV 11.83 FT MLLW., NAVD 88 DATUM.
TIDE GAUGE LOCATED AT CONCORD NAVAL WEAPONS STATION TUG DOCK, NOAA STATION.

(LINES 660+00 TO 733+45) BENCHMARK "5096-B",
USC&GS DISK, ELEV 21.76 FT MLLW., NAVD 88 DATUM.
TIDE GAUGE LOCATED AT DIABLO SERVICE DOCK.

HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON

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

Chart Date: Feb 21, 2017	Designed by:	Drawn by: PDT
Surveyed By:	Plotted By: PDT	Checked By: PDT

PREPARED UNDER THE DIRECTION OF
JOHN C. MORROW
LT. COLONEL, C.E., DISTRICT ENGINEER

Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CONTRA COSTA COUNTY CALIFORNIA

SUISUN BAY CHANNEL

CONDITION SURVEY 16-20 FEBRUARY 2017

Federal Navigation Channel	Beacon, General	**Contours**	
Shoaling Area	Obstruction Point		-35
Placement Area	Navigation Buoy		-34
Anchorage Area			-33
Wreck Area	Navigation Buoy		-32
Submerged Wreck	Shoalest Sounding*		-31
Angle Point			

NOTES:

HORIZONTAL COORDINATE SYSTEM:
NORTH AMERICAN DATUM OF 1983 (NAD83), PROJECTED TO THE STATE PLANE COORDINATE SYSTEM (SPCS), CALIFORNIA ZONE II. DISTANCE UNITS IN U.S. SURVEY FEET.

VERTICAL DATUM:
SOUNDINGS ARE SHOWN IN FEET AND INDICATE DEPTHS BELOW MEAN LOWER LOW WATER.

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BASE MAPS ARE USDA NAIP 2010.

*SHOALEST SOUNDING PER QUARTER PER REACH

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SURVEYED BY THE CORPS OF ENGINEERS.

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SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY, NAVD 88.

THE PROJECT DEPTH IS 35 FEET.

VERTICAL CONTROL:
SUISUN BAY CHANNEL
(LINES 00+00 TO 160+00) BENCHMARK "9" (1948), USC&GS DISK
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HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON

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Surveyed By:	Chart Date: Feb 21, 2017
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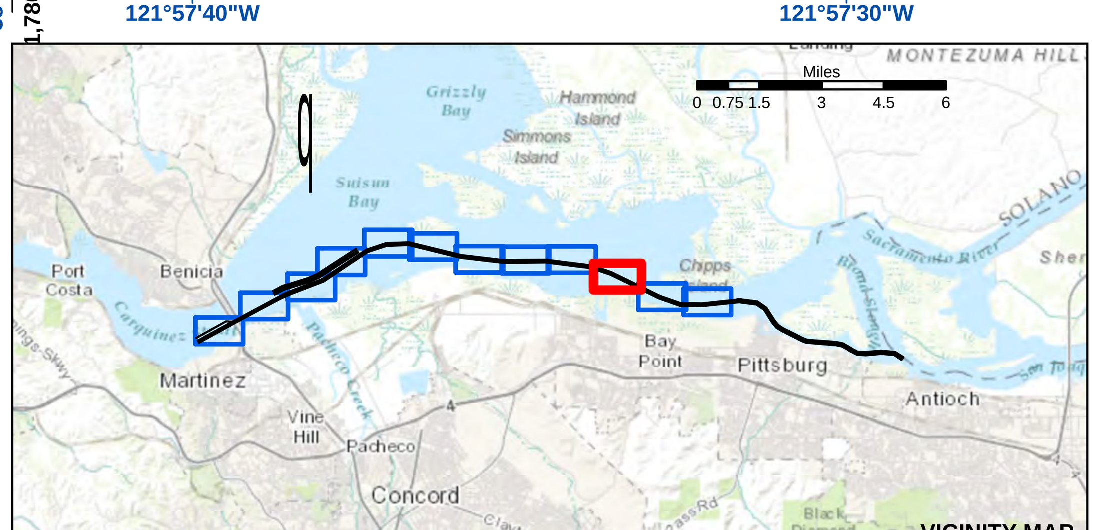
CONTRA COSTA COUNTY CALIFORNIA
SUISUN BAY CHANNEL
CONDITION SURVEY
16-20 FEBRUARY 2017



- 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*

Contours

- -35
- -34
- -33
- -32
- -31

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Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
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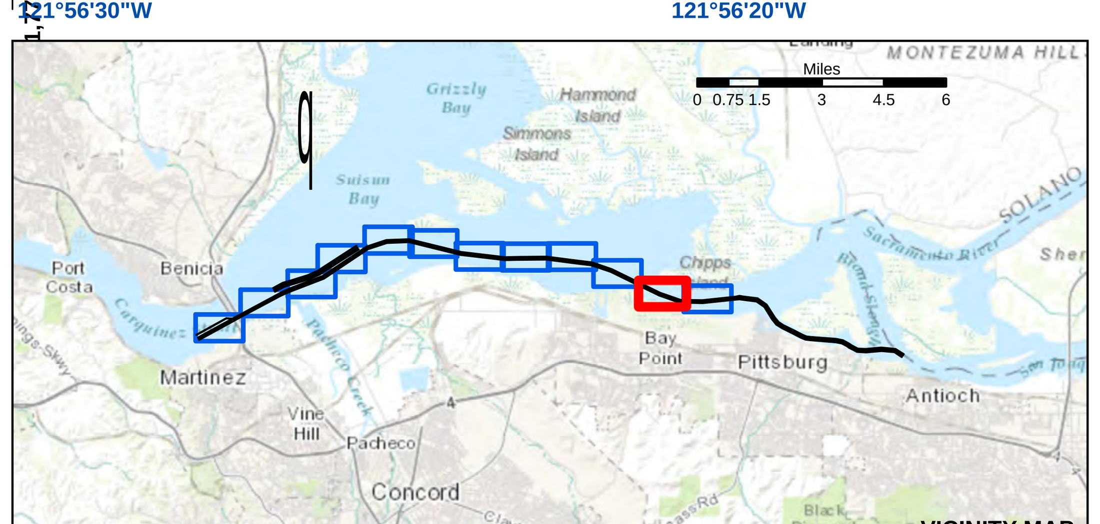
CONTRA COSTA COUNTY CALIFORNIA

SUISUN BAY CHANNEL

CONDITION SURVEY
16-20 FEBRUARY 2017



Federal Navigation Channel	Beacon, General	Contours	
Shoaling Area	Obstruction Point		-35
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PREPARED UNDER THE DIRECTION OF JOHN C. MORROW LT. COLONEL, C.E., DISTRICT ENGINEER	Surveyed By:	Chart Date: Feb 21, 2017
Submitted: Hydro Survey Team Leader	Plotted By: PDT	Designed by:
Recommended: Chief, Hydro Survey Section	Checked By: PDT	Drawn by: PDT
Approved: Chief, Construction Branch		

CONTRA COSTA COUNTY CALIFORNIA

SUISUN BAY CHANNEL

CONDITION SURVEY 16-20 FEBRUARY 2017

Feet

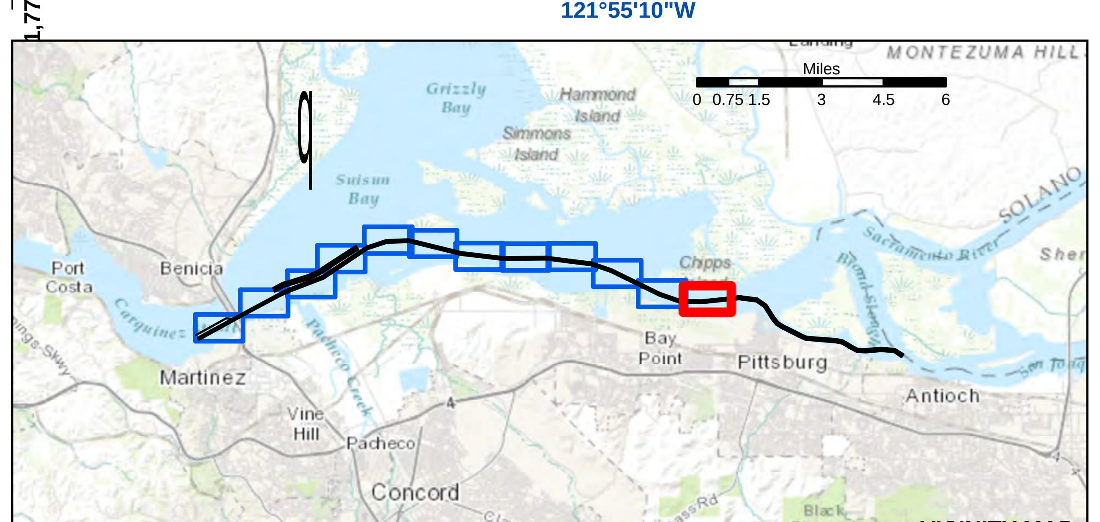
0 200 400 800 1,200

1 inch = 200 feet

Relative Scale (ANSI D 22x34)

1:2,400

Absolute Scale



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CONTRA COSTA COUNTY CALIFORNIA

SUISUN BAY CHANNEL

CONDITION SURVEY 16-20 FEBRUARY 2017