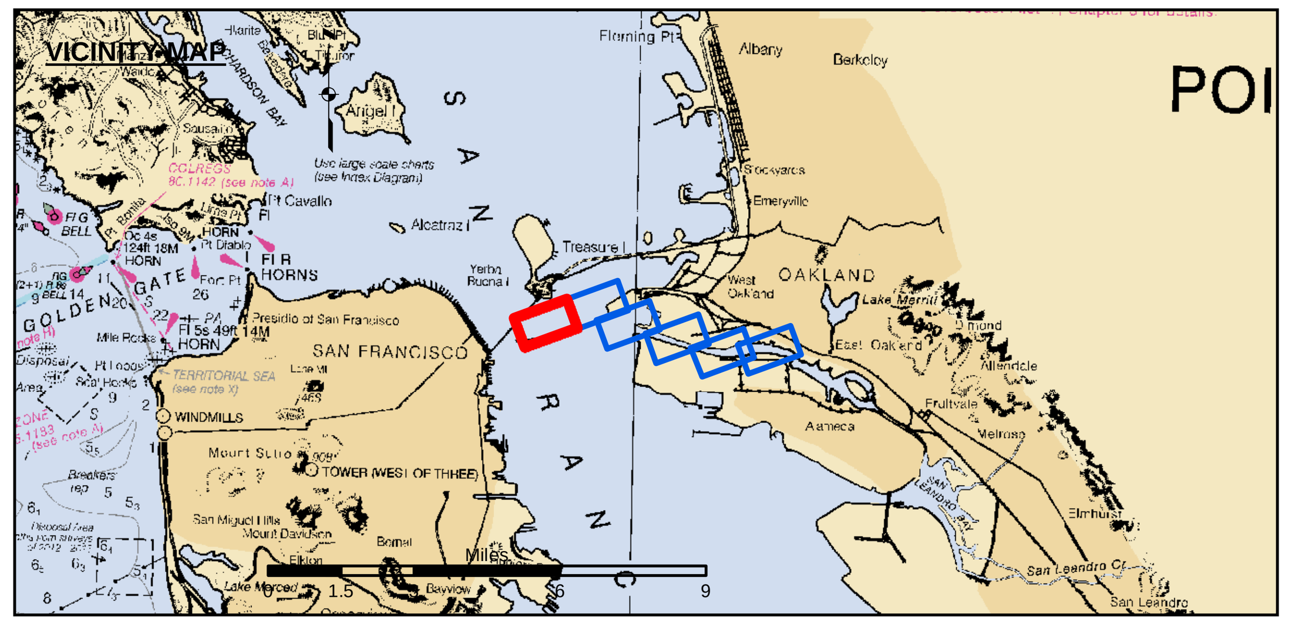

Legend

- 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

- -50
- -49
- -48
- -47
- -46

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.

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

SURVEYED BY THE CORPS OF ENGINEERS.
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*SHOALEST SOUNDING PER QUARTER PER REACH

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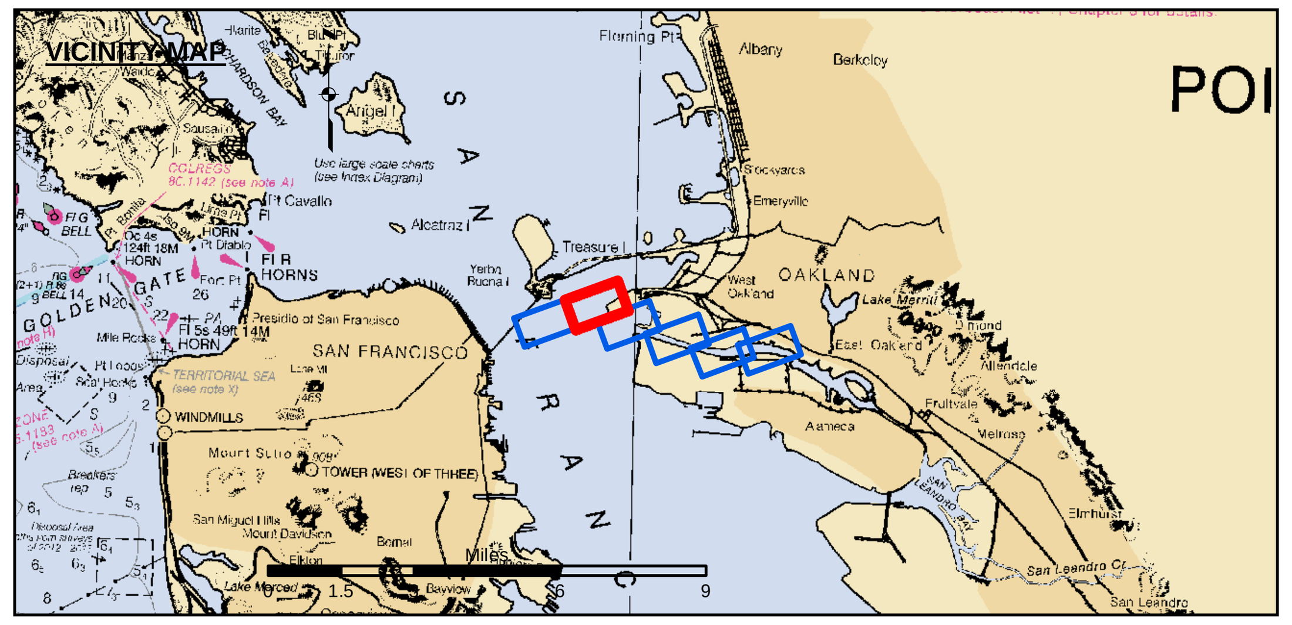
Chart Date: Apr 03, 2023
Designed by:
Drawn by:
Surveyed By:
Plotted By:
Checked By:

PREPARED UNDER THE DIRECTION OF
KEVIN P. ARNETT
LT. COLONEL, C.E., DISTRICT ENGINEER

Submitted: Hydro Survey Team Leader
Recommended: Navigation Technical Manager
Approved: Project Manager

ALAMEDA COUNTY CALIFORNIA

OAKLAND HARBOR
INNER HARBOR CONDITION SURVEY
22-23 MARCH 2023



Legend		Legend		Contours	
Federal Navigation Channel		Beacon, General		-50	
Shoaling Area		Obstruction Point		-49	
Placement Area		Navigation Buoy		-48	
Anchorage Area		Navigation Buoy		-47	
Wreck Area		Shoalest Sounding*		-46	
Submerged Wreck					
Angle Point					

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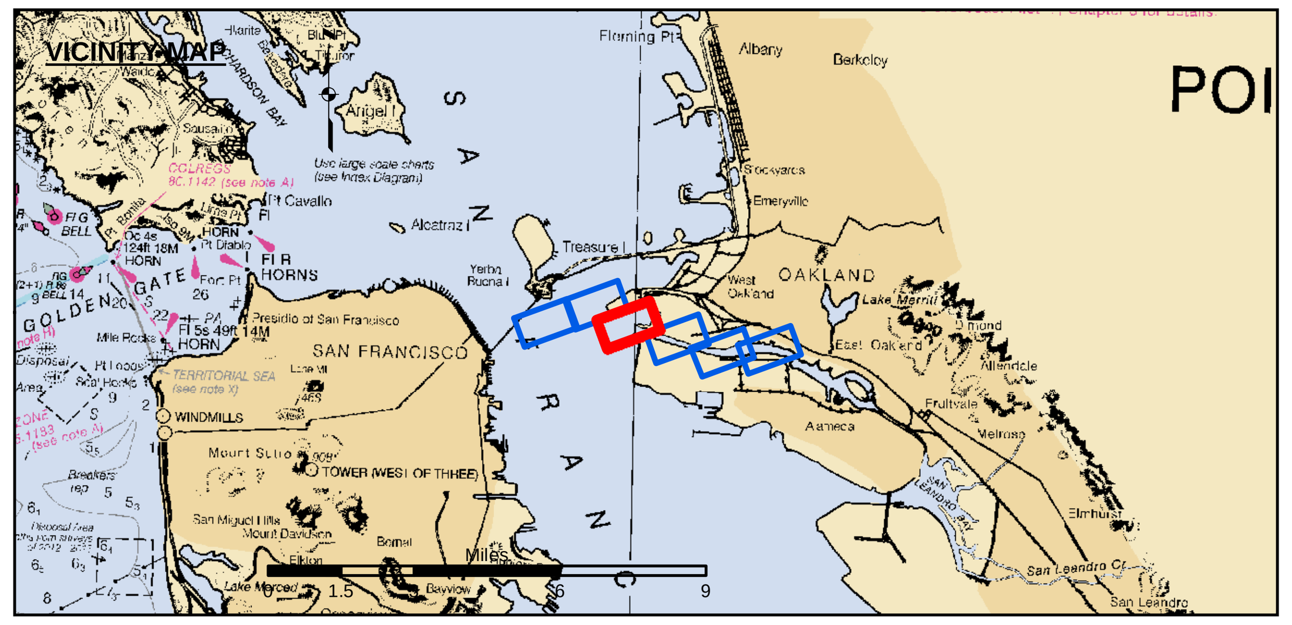
Surveyed By:
Designed by:
Plotted By:
Drawn by:
Checked By:

PREPARED UNDER THE DIRECTION OF
KEVIN P. ARNETT
LT. COLONEL, C.E., DISTRICT ENGINEER

Submitted: Hydro Survey Team Leader
Recommended: Navigation Technical Manager
Approved: Project Manager

ALAMEDA COUNTY — CALIFORNIA

OAKLAND HARBOR
INNER HARBOR CONDITION SURVEY
22-23 MARCH 2023



Legend		Legend		Contours	
	Federal Navigation Channel		Beacon, General		-50
	Shoaling Area		Obstruction Point		-49
	Placement Area		Navigation Buoy (green)		-48
	Anchorage Area		Navigation Buoy (red)		-47
	Wreck Area		Shoalest Sounding*		-46
	Submerged Wreck				
	Angle Point				

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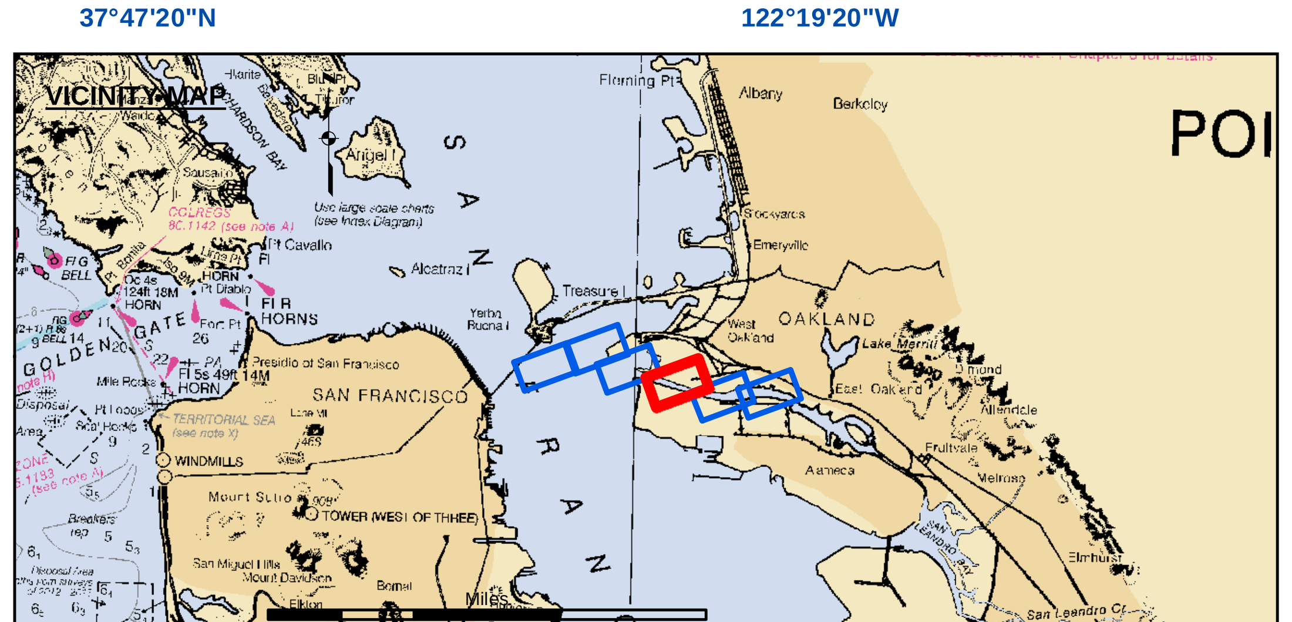
PREPARED UNDER THE DIRECTION OF
KEVIN P. ARNETT
LT. COLONEL, C.E., DISTRICT ENGINEER

Submitted: Hydro Survey Team Leader
Recommended: Navigation Technical Manager
Approved: Project Manager

Surveyed By:
Plotted By:
Checked By:
Chart Date: Apr 03, 2023
Designed by:
Drawn by:

CALIFORNIA
ALAMEDA COUNTY

OAKLAND HARBOR
INNER HARBOR
CONDITION SURVEY
22-23 MARCH 2023



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

Contours
-50
-49
-48
-47
-46

NOTES:
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PREPARED UNDER THE DIRECTION OF
KEVIN P. ARNETT
LT. COLONEL, C.E., DISTRICT ENGINEER

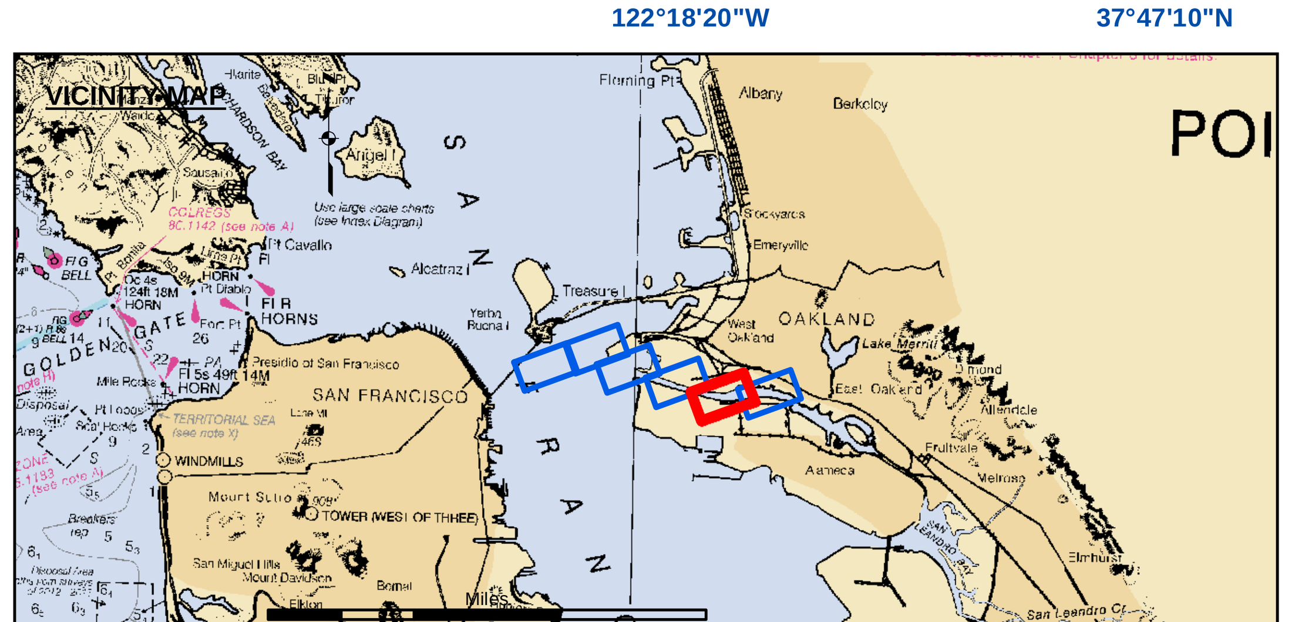
Submitted: Hydro Survey Team Leader
Recommended: Navigation Technical Manager
Approved: Project Manager

Surveyed By:
Chart Date: Apr 03, 2023
Plotted By:
Designed by:
Checked By:
Drawn by:

ALAMEDA COUNTY CALIFORNIA

OAKLAND HARBOR
INNER HARBOR
CONDITION SURVEY
22-23 MARCH 2023

CORPS OF ENGINEERS U.S. ARMY



Legend		Legend		Contours	
	Federal Navigation Channel		Beacon, General		-50
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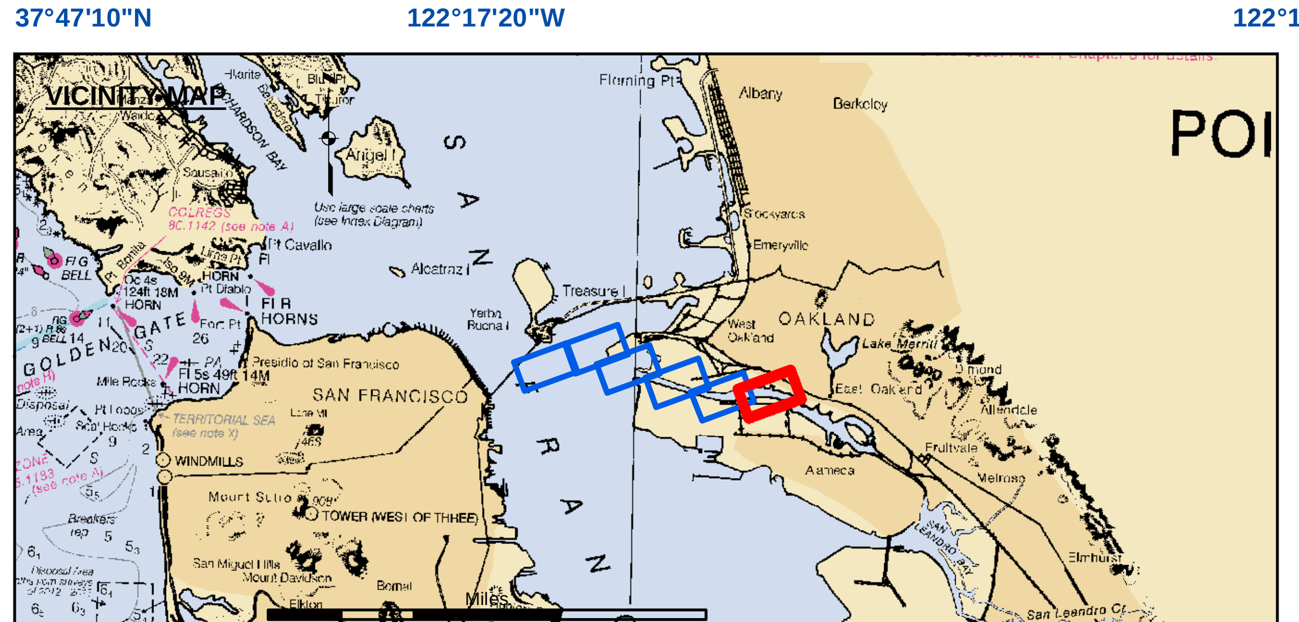
PREPARED UNDER THE DIRECTION OF KEVIN P. ARNETT LT. COLONEL, C.E., DISTRICT ENGINEER	Surveyed By:	Chart Date: Apr 03, 2023
Submitted: Hydro Survey Team Leader	Plotted By:	Designed by:
Recommended: Navigation Technical Manager	Checked By:	Drawn by:
Approved: Project Manager		

ALAMEDA COUNTY CALIFORNIA

OAKLAND HARBOR
INNER HARBOR CONDITION SURVEY
22-23 MARCH 2023

CORPS OF ENGINEERS

U.S. ARMY



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BASE MAPS ARE USDA NAIP 2010.

*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 LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.
THE PROJECT DEPTHS ARE AS FOLLOWS:
OUTER AND INNER HARBOR IS -50 FEET
INNER HARBOR TURNING BASIN TO PARK STREET BRIDGE IS -35 FEET.
TIDAL CANAL PROJECT DEPTH IS -18 FEET.
PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE III CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.
HORIZONTAL CONTROL:
PRIMARY: RTK POSITIONING
SECONDARY: COAST GUARD DGPS D-BEACON
VERTICAL CONTROL:
PPCP: PORT 1 1936/PID HT0654.
OAKLAND INNER, REACH 4-6 DISK SET AT SOUTH END OF CLAY STREET, AT THE PORT OF OAKLAND CLAY STREET PIER.
ELEVATION: 9.56 FEET MLLW - PUBLISHED 21 APR 2003 ON NOAA STATION 941 4764 TIDE GAUGE LOCATION IS CHISEL MARK APPROX. 10 FEET WEST ON TOP OF CONCRETE CURB; CHISEL ELEVATION 11.0 FEET MLLW.
LPCP 1: 941 4777 B TIDAL/PID AE5211, OAKLAND INNER REACH 1-3 DISK SET IN BALLARD FOUNDATION NEAR THE NORTHEAST END OF BERTH 40 OF THE OAKLAND MIDDLE HARBOR.
ELEVATION: 13.48 FEET MLLW - DERIVED FROM WGS-84 ELLIPSOID ELEVATION, GEOID09 AND VDATUM MODELS TIDE GAUGE LOCATION IS IN FACE OF PILING AT BERTH 37; NAIL ELEVATION 9.7 FEET MLLW.
LPCP 2: OAK OUTER 1 2012/NO PID, OAKLAND OUTER REACH 7-10 DISK SET IN PARKING LOT AT PIER 6 AMNAV TUG TERMINAL AT THE EDGE OF THE PIER. ELEVATION: 14.04 FEET MLLW - DERIVED FROM WGS-84 ELLIPSOID ELEVATION, GEOID09 AND VDATUM MODELS TIDE GAUGE LOCATION IS IN FACE OF PILING AT PIER 6, 10' EAST OF BENCHMARK; NAIL ELEVATION 10.1 FEET MLLW.

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Chart Date: Apr 03, 2023

Designed by:

Drawn by:

Surveyed By:

Plotted By:

Checked By:

PREPARED UNDER THE DIRECTION OF
KEVIN P. ARNETT
LT. COLONEL, C.E., DISTRICT ENGINEER

Submitted: Hydro Survey Team Leader

Recommended: Navigation Technical Manager

Approved: Project Manager

ALAMEDA COUNTY CALIFORNIA

OAKLAND HARBOR
INNER HARBOR CONDITION SURVEY
22-23 MARCH 2023