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U. S. COAST AND GEODETIC SURVEY
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Form 504

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
Leo. O. Colbert, Director

State: CALIFORNIA

DESCRIPTIVE REPORT

Topographic } Sheet No. 4-1938
Hydrographic }

LOCALITY

~~CALIFORNIA~~

SAN FRANCISCO BAY

BERKELEY YACHT HARBOR.

1938
1938

CHIEF OF PARTY

E. W. EICKELBERG.

GOVERNMENT PRINTING OFFICE

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 4 - 38

REGISTER NO.

State CALIFORNIA

General locality SAN FRANCISCO BAY

Locality BERKELEY YACHT HARBOR

Scale 1:5,000 Date of survey November, 1938

Vessel GUIDE

Chief of Party E. W. BICKELBERG

Surveyed by E. H. BERNSTEIN

Protracted by E. H. BERNSTEIN

Soundings penciled by E. H. BERNSTEIN

Soundings in ~~fathoms~~ feet

Plane of reference M. L. L. W.

Subdivision of wire dragged areas by

Inked by F. B. Kelly

Verified by F. B. Kelly

Instructions dated November 12, 1936, 22AB, 1995 GU4, 19

Remarks: Letter from Director, December 24, 1936, No. 22/MEK 1995, GU4, and April 11, 1936, No. 22-AB, 1995, GU4.

Descriptive Report
to accompany
HYDROGRAPHIC SHEET No. 4 - 1938
Berkeley Yacht Harbor
Berkeley, Calif.

INSTRUCTIONS: Instructions dated November 12, 1936,
(22-AB 1995 GU 4).
Related correspondence in letter of Director,
dated Dec. 24, 1936, (22-MEK 1995 GU 4); and ✓
Apr. 11, 1937, (22-AB 1995 GU 4).

SURVEY METHODS: The sounding was done with the port motor-
sailer of the Ship GUIDE. An experienced
leadsman did the sounding. Steering of ranges, plotting
and taking of angles was done by the four U. S. Maritime
Commission Cadets attached to the Ship GUIDE, as part of
their course of training. The launch was kept throttled ✓
down to the slowest speed possible; all soundings are up
and down. Due to the inexperience of the recorder, the
first line, (Positions 1 to 11 of "a" day), is unreliable.
This line was rerun on "c" day, Positions 1 to 11. Angle-
men stood close together and as close to the leadsman as
possible.

DISCREPANCIES: There are no unadjusted discrepancies. ✓ ✓

DEPTH CURVES: The depth curves run most erratically, due
to incomplete dredging of the basin. Some
dredging seems to have been done solely for building up the
breakwater. The basin is almost completely enclosed, but
a large gap still exists in the middle part of the northern
breakwater, the minimum depth on this is however less than
one foot, a ridge between the gap baring almost completely ✓
at low water. The greatest depth in the basin is 39 feet,
but the available depth is limited at the entrance to 7
feet, which however is the maximum depth in San Francisco
Bay outside the entrance. Sufficient lines were run outside
to develop the approaches to the entrance.

DESCRIPTION OF BASIN: See the topographic sheet of this ✓
yacht harbor with descriptive report.

Numerous small boats are kept harbored in the basin. ✓
The larger ones are kept on the outer faces of the two piers
and along the northern side of northwestern pier.

Smaller boats are kept in individual slips between guard pilings with floats alongside one edge of the slips.

Very small boats are kept moored on a series of floating moorings in the eastern half of the basin.

Gasoline and oil may be had at the City Wharf, which has sufficient depth alongside for the deepest draft using the harbor. Here is also the harbor-master's office.

There is a boat repair shop and marine railway near station "FROST".

AIDS TO NAVIGATION: The two sides of the entrance to the harbor are marked by Berkeley Yacht Harbor Lights 2 and 1. There is also a fog bell on the breakwater at the south side of the entrance.

A light, Berkeley Old Municipal Wharf West, somewhat inside the end, marks the old pilings running westward outside the breakwater at the southwestern end.

GEOGRAPHIC NAMES: The correct designation of the harbor is Berkeley Yacht Harbor.

LANDMARKS FOR CHARTS: See descriptive report for Berkeley Yacht Harbor topographic sheet of this season.

STATISTICS:

Day	No. of Pos's.	No.Sound'gs	Statute miles of sounding lines.
a	52	291	3.2
b	131	738	7.6
c	130	642	9.0
TOTALS	313	1,671	19.8

Approved: Forwarded:

Respectfully submitted,

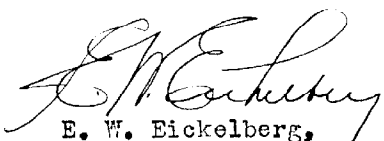
E. W. Lickelberg
E. W. Lickelberg,
Chief of Party, C. & G. S.,
Commanding Ship GUIDE,

E. H. Bernstein
E. H. Bernstein,
H. & G. Engineer,
Hydrographer.

STATEMENT
to accompany
HYDROGRAPHIC SHEET NO. 4 - 1938.
Berkeley Yacht Harbor
Berkeley, Calif.

The smooth sheet plotting, pencilling of soundings and depth
curves was done by Lieutenant E. H. Bernstein. ✓

The smooth sheet has been inspected and is approved.


E. W. Eickelberg,
Chief of Party, C. & G. S.,
Commanding Ship GUIDE.

Field Records Section (Charts)

H6421
HYDROGRAPHIC SHEET NO.

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	313
Number of positions checked	15
Number of positions revised	1
Number of soundings recorded	1671
Number of soundings revised	2
Number of soundings erroneously spaced	1
Number of signals erroneously plotted or transferred	0

Date:

Verification by *Francis B. Kelly*

Time: 32 hrs.

Review by *J.A. McCormick 6/10/39*

Time: 12 hr.

HYDROGRAPHIC SURVEY NO. H6421

Smooth Sheet Yes

Boat Sheet Yes

Records; Sounding 2 Vols., Wire Drag Vols., Bomb Vols.

Descriptive Report Yes

Title Sheet Yes

List of Signals ----

Landmarks for Charts (Form 567) Yes

Statistics Yes

Approved by Chief of Party Yes

Recoverable Station Cards (Form 524) -----

Special Chart for Lighthouse Service -----
(Circular Nov.30, 1933)

Hydrography: Total Days 3 ; Last Date Nov. 2, 1938

Remarks _____

Verification report for H 6421 (1938)

The records conform to the requirements of the ✓
General Instructions.

There are no contemporary adjoining surveys. ✓

The piers on the western side of the yacht
harbor are ~~marked~~ indicated neither on the Boat
Sheet nor on T 6665 and can only be plotted from
the notes and the D.R. Their description in the
D.R. is rather ambiguous and therefore they
were left in pencil pending its review.

B.P. 32843
shows
complete
detail.
Penciled
piers not
inked.

The signals are original with T 6665 ✓

Francis B. Kelly

May 11, 1939

Remarks

Decisions

	Remarks	Decisions
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2		
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M 234		

GEOGRAPHIC NAMES
 Survey No. **H6421**

Name on Survey	Source of Name										No.
	A	B	C	D	E	F	G	H	K		
<u>San Francisco Bay</u>	✓										1
<u>Berkeley Yacht Harbor</u>				see D.R.							2
<u>Berkeley</u>	✓										3
											4
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											18
Names underlined in red approved											19
by <u>SAE</u> on 3/30/39											20
											21
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Lae

TIDE NOTE FOR HYDROGRAPHIC SHEET

April 1, 1939

Division of Hydrography and Topography:

✓ Division of Charts: Attention: Mr. E. P. Ellis

Plane of reference

~~Tide Reductions~~ approved in
2 volumes of sounding records for

HYDROGRAPHIC SHEET 6421

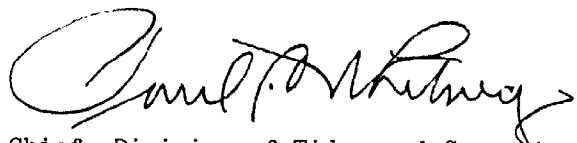
Locality Berkeley Yacht Harbor, San Francisco Bay

Chief of Party: E. W. Eickelberg in 1938
Plane of reference is mean lower low water reading
5.6 ft. on tide staff at Presidio
10.3 ft. below B.M. 165

Height of mean high water above plane of reference is 5.1 feet.

Note: A correction for tidal difference of plus 25 minutes for time and plus 0.2 foot for height of high water was used.

Condition of records satisfactory except as noted below:


Chief, Division of Tides and Currents.

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
 DESCRIPTIVE REPORT
~~PHOTOSTATIC~~

} No. H -6421
~~No. H -6421~~

{ received Mar. 21, 1939
 registered Mar. 24, 1939
 verified
 reviewed
 approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
20			
22			
24			
25	✓		Pages 1 & 2 Entered CP. <i>edd</i>
26			
30			
40			
62			
63			
82			
83			
88			
90			

RETURN TO

82	T. B. Reed
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✓ *JBR*

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6421 (1938) FIELD NO. 4

Berkeley Yacht Harbor, San Francisco Bay, California

Surveyed in Nov., 1938, Scale 1-5,000

Instructions dated Nov. 12, 1936 (GUIDE)

Hand Lead Soundings.

3 Point fixes on shore signals.

Chief of Party - E. W. Eickelberg
Surveyed by - E. H. Bernstein
Protracted by - E. H. Bernstein
Soundings plotted by - E. H. Bernstein
Verified and inked by - F. B. Kelly

1. Shoreline and Signals.

Shoreline and topographic signals are from T-6665 (1938) and T-4671 (1931). Detail on the later survey is not complete and, should be supplemented by that on B. P. 32843 of 1936.

2. Depth Curves.

The usual depth curves may be satisfactorily drawn.

3. Sounding Line Crossings.

Sounding line crossings are satisfactory.

4. Junctions with Contemporary Surveys.

There are no contemporary adjoining surveys nor are any contemplated for the immediate future. Overlaps with old surveys are satisfactory, however, for charting purposes.

5. Comparison with Old Surveys.

H-464 (1855) 1-20,000; H-2244 (1895) 1-10,000; H-230 (1895-97) 1-10,000;
H-3928 (1916) 1-20,000

Depths on the old surveys naturally do not agree with those on the present survey in the artificially created yacht harbor. Outside the dredging limits the agreement is fairly good. The present survey should supersede the old surveys in future charting of the common area.

6. Comparison with Chart 5532 (New Print dated December 19, 1938)

(a) Hydrography.

Within the area of the present survey the chart is based on surveys discussed in the foregoing paragraphs and on chart letter 563 of 1936 which contains some information on the

dredging project. The present survey should supersede the chart letter in future charting.

(b) Aids to Navigation

Survey positions of navigational aids in the area are in substantial agreement with those charted. The position of the fog bell referred to on page 2 of this report is shown on T-6665 (1938).

7. Condition of Survey.

- (a) Sounding volumes are neat and legible.
- (b) The descriptive report is satisfactory.
- (c) The field plotting was satisfactory.

8. Compliance with Instructions for the Project.

Satisfactory.

9. Additional Field Work Recommended.

None

10. Superseded Old Surveys.

H-464 (1855) in part
H-2244 (1895) in part
H-2301 (1895-97) in part
H-3928 (1916) in part

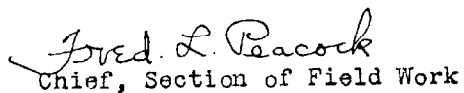
11. Reviewed by - J. A. McCormick, June 10, 1939

Inspected by - H. R. Edmonston

Examined and approved:



T. B. Reed,
Chief, Section and Field Records



Fred. L. Peacock
Chief, Section of Field Work



K.T. Adams
Chief, Division of Charts



G. W. Hudd
Chief, Division of Hydrography
and Topography

Applied to Chart 5532 Aug 25 1939

Chas R. Buehler

" " " 5402 Jan 1940

J.H.S.

" " " 5502 Feb. 27, 1940

J.H.S.