

3918

Diag. Cht. No. 5101-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. _____ Office No. H-3918

LOCALITY

State CALIFORNIA

General locality SAN DIEGO BAY

Locality SAN DIEGO BAY(NORTHERN PART)

1917

CHIEF OF PARTY

E. B. Latham.

LIBRARY & ARCHIVES

DATE _____

3918

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 3918

State . . . California

General locality . . San Diego Bay

Locality San Diego Bay Northern part.

Chief of party E. B. Latham

Surveyed by E. B. Latham

Date of survey . . December 1916 and January 1917

Scale 1 to 10,000

Soundings in . . . Feet

Plane of reference . . Mean Lower Low Water

Protracted by 3" # * Soundings in pencil by EBLatham .

Inked by Verified by

Records accompanying sheet (check those forwarded):

Des. report, Tide books, ** Marigrams, *** Boat sheets, * *

Sounding books, * Wire-drag books, Photographs.

Data from other sources affecting sheet None. C-GS soundings of 1898 and 1899 and at junction with other sheet resurvey 1/1 S D Bay

* Protracted by EBLatham Assist
A. L. Shalowitz Deck Officer
L. E. Brunner Hand

Remarks:

Resurvey, not a complete survey, soundings to determine if change in depth had occurred, since survey of 1899. Soundings off Ballast Point to a point north of Naval Reservation, made at the request of The Commission on Navy Yards and Naval Stations and off the City water front of the City of San Diego, together with soundings of 1898 and 99 are a complete resurvey.

* * Forwarded under separate cover *** La Playa Station

*Note: Shading of tracing cloth, work done after
as per 4 funding positions*

Hyd. 3918.

Descriptive Report
Hydrographic Sheet San Diego Bay California Northern Part
Scale 1 to 10,000

A resurvey in part and to ascertain if there had been changes in depth, since the Coast Survey survey of 1898 and 1899.

Soundings to be supplemented by those of 1898 and 1899, over the greater part of the area shown on this sheet.

Information as to the present depths in the vicinity of the Naval reservation, were requested by the Commission on Navy Yards and Naval Stations. This area and that off the western water front of the City of San Diego are complete resurveys. A few soundings were made on the outer bar. The indicated dredged depth, is more than maintained, 38 feet was the most shoal sounding obtained on the San Diego Bay Entrance range. The tidal reducers for this part of the sheet are from staff readings at the La Playa automatic tidal station.

Five days were spent on this sheet, soundings on other days, made at times when it was impractical to sound in the southern part of the Bay.

An interesting condition, as to the existence of ridges in the area between buoys five and six, was reported to me by Mr. D.E. Hughes of the US Engineers office. This area was investigated. An improvised sweep, an iron pipe 40 feet ~~long~~ long, was suspended from the launch, and several drifts made over the area of greatest depths, two leads were kept going feeling the bottom at frequent intervals. During a part of the time, while drifting, a lead was allowed to drag over the bottom. The existence of the ridges is beyond doubt. The maximum elevation of the ridges, in the greatest depth is one foot, and two and one-half feet on the north side of the channel.

Additional sounding near slack water and while drifting were obtained during current observations in this locality. The additional soundings confirm the existence of these ridges. The present soundings and also those of 1898 and 99 indicate that there are depths, in close proximity, differing by three feet in other parts of the Bay.

All reducers, except for one days work on the outer bar are from the tidal Station Naval Reserve wharf at the foot of 28th Street San Diego. It is believed that a careful investigation of the tidal plane will improve the reducers for this sheet and for the upper portion of the hydrographic sheet of San Diego Bay, Southern part.

I am informed that the Harbor Master of San Diego sounds the bar about the first of each month and sends the results to the branch office of the Hydrographic Office of the Navy at San Francisco California. This information as well as similar information for other Pacific Coast ports is published by "The Guide" a shipping paper published in San Francisco, Cal.,

For general statement for the whole of San Diego Bay resurvey, see descriptive report hydrographic sheet, San Diego Bay, Southern Part.

E. B. Sachan

Chief of Party C & G Survey

Descriptive Report
Hydrographic Sheet San Diego Bay California Northern Part
Scale 1 to 10,000

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E. B. Satchell

Chief of Party C & G Survey

Statistics Hydrographic Sheet
San Diego Bay Northern Part

Letter	Date	Miles	Sdg line	No. Soundings	No Angles
A	Dec 13-1916	8.00		318	134
B	" 14	13.75		553	352
C	" 15	14.00		597	282
Transferred					
		-----1.00-----		-----30-----	-----10-----
Totals		36.75		1498	778
		Volume 2			
D	Dec 28 1916	2.5		95	34
E	Jan 6 1917	7.00		433	136
F	" 8	<u>14.50</u>		<u>924</u>	<u>236</u>
		24.00		1452	404
		Volume 3			
G	Jan 17 1917	13.75		727	264
I	" 15	3.5		315	83
M	" 20	<u>8.00</u>		<u>544</u>	<u>168</u>
		25.25		1586	515
		Volume 4			
H	Jan 10 1917	10.00		683	178
M	" 20	2.00		77	--24
O	" 30	<u>13.50</u>		<u>885</u>	<u>244</u>
		25.50		1645	446
		Volume 5			
J	Jan 16 1917	9.00		583	148
N	" 29	<u>17.50</u>		<u>1337</u>	<u>300</u>
		26.50		1920	448
Totals					
		Miles		Soundings	Angles
		36.75		1498	778
		24.00		1452	404
		25.25		1586	515
		25.50		1645	446
		26.50		1920	448
		138.0		8101	2591

E. S. Sutham

Chief of Party C & G Survey

VEC
Mar. 19, 1917

CS
RTH
HCS.

HYDROGRAPHIC SHEET 3918.

San Diego Bay, Northern Part, California, by Assistant
E. B. Latham in 1917.

TIDES.

	Quarantine Wharf	Broadway Municipal Pier	Naval Reserve Wharf
	ft.	ft.	ft.
Mean lower low water, or plane of reference on staff	3.6	6.4	1.2
Mean range of tide	3.9	4.2	4.4

Hydrographic Sheet 3918.

San Diego Bay.

Protracted and plotted by Field Party, Verified and inked by S.L.R.

That part of this survey which was made for the purpose of ascertaining whether any changes had taken place since 1898, agrees very well with the old work; there is no material difference between the two surveys.

The ~~works~~^{surveys} in the vicinity of the Naval Reservation, and the western waterfront of San Diego, are complete and, on the whole, good.

The work was carefully protracted and plotted and the records were well kept.

S. L. Rosenberg.

May 4, 1917.

Soundings in feet.