

3768 A

Form 504	
DEPARTMENT OF COMMERCE	
U. S. COAST AND GEODETIC SURVEY	
State: _____	
11-5013	
DESCRIPTIVE REPORT.	
Top	Sheet No. 3768 ^r 3768 ^a
LOCALITY:	
191	
CHIEF OF PARTY:	

RECEIVED
JUN 20 1919
AC-111

Descriptive Report to Accompany Topographic Sheet No. 3768 + 3768 ~

Tacoma, Harbor, Wash., Tide Flats, Waterways, Etc.

Season December 23, 1918 to March 31, 1919

by

Land Party Using Borrowed Navy Launch No. 6312

Under Direction of

John W. Maupin, Chief of Party.

Instructions dated November 5, 1918.

SYSTEM OF CONTROL.

Only two old triangulation stations could be recovered which were intervisible, namely Gull and Bos. Using the line Gull - Bos as a base, the quadrilateral Gull, Bos, Mac, and Cliff was determined by tertiary triangulation methods. From this quadrilateral, a number of prominent objects and intersection triangulation stations were determined at points advantageous for the planstable work. One hundred and thirty-two topographic stations were determined along the waterfront and waterways for use in the hydrographic survey.

METHODS.

The usual planstable methods were used and the topographic sheet was done on a scale of 1-5000. Two blue prints are submitted herewith, having a number of points in common with the topographic sheet, for use in making additions by transfer to the finished chart. On the blue print obtained from the N. P. Railroad Co., the following points are common:-

△ Box, △ Span, △ Shed, ⊙ City Hall, ⊙ Smoke, and ⊙ Stack. In placing these points on the blue print, each object was visited and the points accurately plotted from measurements taken on the ground. This blue print shows the tracks of all the railroads entering Tacoma. On the blue print obtained from the City Engineers, the following points are common:- △ Box, △ Span, △ Shed, ⊙ City Hall, and ⊙ Court House.

PROMINENT OBJECTS.

With reference to paragraph #7 of my instructions dated November 5, 1918, it is hereby recommended that the old points City Hall and Court House be shown on the finished chart. It is also recommended that △ Cupola (red cupola of ^{Logan} schoolhouse) and △ Standpipe (large standpipe) be placed on the chart as they could be used as a back range with △ City Hall for a speed trial course or in swingingships for compass correction. The fixed red light (△ Box), described in my descriptive report of the hydrographic sheet, should, of course, be shown on the chart. I am informed that a description of this light has been furnished the Bureau of Lighthouses. The △ Chimney, which falls outside the limits of Chart #6451, is a brick structure, the top of which is 573 feet above its foundation and 726 feet above the water. This stack belongs to the Tacoma Smelter Co. and is claimed to be the tallest chimney in America. It is very prominent and should be shown on the smaller scale chart of this locality. An older chimney, about half as high, already shown on the chart, is located nearby.

REVISION SHEET.

A copy of hydrographic sheet scale 1-10000, registered No. 2986, surveyed by R. B. Derickson in 1909, was used as a revision sheet for correcting the shoreline, etc., outside the limits of the sheets on which the present work was done. The changes on the revision sheet are shown in red ink, and are correct in relation to the old topography shown thereon, although the projection appears to be based on a different datum from that used in the present work.

MISCELLANEOUS REMARKS.

After a consultation with the City Engineers of Tacoma and a thorough reconnaissance of the entire locality, the work performed appeared to be that which was needed. In addition to the work actually done, the shore line was thoroughly examined, using registered

hydrographic sheet No. 2986, and the old hydrography, shown thereon, was tested by soundings in a number of different places. It is believed that the work performed is quite accurate and entirely sufficient for the construction of a new chart of Tacoma Harbor. It is respectfully suggested that a scale of 1-10000 be used for the new publication. The City Engineers of Tacoma called my attention to the fact that the words "Old Tacoma" are misplaced on chart No. 6451, and should be placed between the two ravines shown on this chart instead of to the westward of them.

Respectfully Submitted,

John W. Maupin

John W. Maupin,
H. & G. E., Chief of Party,
U. S. C. & G. Survey.

PLANETABLE POSITIONS

Object and description	Latitude	D.M.	Long.	D.P.	Ht.	Remarks
Wat, Water Tank on Milw. Deck	47 16	88	122 25	359		Top
Stack, Smoke Stack Dempsey Lumber Co. Mill	47 15	851	122 24	1098	120	Center
Smoke, Smoke Stack on Tabors Mill	47 14	1306	122 25	984	100	Center
Flag, Flagstaff in Todd's Ship Yard	47 16	1587	122 24	696		Center
Fun, On pile N.W. Corner Milw. Deck	47 16	315	122 25	628		Center
Try, On NeW. Cor. Todd's Ship Yard	47 16	1578	122 24	996		Center