

1694

Diag. Ch. 6450-1

& 6460-1

Form 504

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

11-5413

State: Washington

DESCRIPTIVE REPORT.

Hydrographic Sheet No. 1694

LOCALITY:

Puget Sound

Port Orchard

1885

~~188~~

CHIEF OF PARTY:

C.T. Forse

1694

rac
11/24/22

COPY

Hydrographic Sheet 1694.

February 4, 1918.

Chief, Division of Hydrography and Topography.

In accordance with your verbal request of the 2nd instant, the following report is submitted in regard to the relation between the datum to which Hydrographic Sheet 1694 was reduced, and the plane of mean lower low water, now used in Puget Sound.

On February 7, 1917, a correction of +1.4 feet was furnished from this Section, for the reduction of soundings from the Burkes Bay gauge. After a careful examination of the tidal observations of 1885 at Burkes Bay, I find that they are not sufficient to determine a plane of reference closer than which an uncertainty of ± 0.3 foot. The draftsman properly used the correction of +1.4 feet as +1 foot, and it would remain +1 foot if the negative sign of the above uncertainty were used; but it would become +2 feet when the positive sign is used.

Over a wide area in the vicinity of Burkes Bay, the mean sea level is usually depressed one or more tenths of a foot below its average value for the year, during the months of October and November, when most of the work on Sheet 1694 was done. Correcting for this would increase the +1.4 feet to more than +1.5 feet, thus indicating that the upper sign of the above uncertainty should be used, which will increase the soundings of 1885 on the tracing by another foot.

(Signed) m L.P. Shidy,
Acting Chief, Section Tides
and Currents.

*For Port Orchard use the
soundings as given on the
tracing for plane M.L.L.W.
L.P.S.*

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Hydrographic Sheet 1694.

PORT ORCHARD, DYES INLET, and DOGFISH BAYS, WASHINGTON.

by Lieut. C. T. Furse in 1885.

TIDES.

	Tide Staff 1 Burkes Bay Port Orchard. Feet.	Tide Staff 2 Phinney Bay Dyes Inlet. Feet.
Mean lower low water on staff	2.8	0.2
Plane of reference used as stated on sheet	<u>1.4</u>	<u>2.4</u>
Difference.....	+ 1.4	- 2.2

To refer to the datum of mean lower low water, all soundings which were reduced by tide staff 1 should be increased by 1.4 feet, and all soundings reduced by tide staff 2 should be diminished by 2.2 feet.

Note:- At the time this note was prepared (Feb. 7, 1917), the original sounding books for this hydrographic sheet, which covers the period October 12 to December 4, 1885, could not be found. It therefore could not be determined which of the soundings were reduced by staff 1 and which by staff 2.

The tide record at hand gives only two days of observations in Dyes Inlet, namely, - Nov. 13 and Dec. 4, but the sheet shows that work was done in this inlet on other days also, and with the present available information it is impossible to tell which gauge was used for all work in Dyes Inlet. For all work outside of Dyes Inlet it is probable that tide staff 1 was used exclusively.

(P.S.)

For Port Orchard use the soundings as given on the tracing for plane M.L.L.W., and, in case of uncertainty, use the sds. as found on this sheet, without correction outside of Port Orchard
G.T.F.