4221422

6. & 8. 95.957 L * A. NOV 8 1922

Diag, Cht. No. 5502-1

Form 504 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVE DESCRIPTIVE REPORT.

女女と父父父父父父父父父父父父父父父父父父父父父父父父父父父父父父父父

Descriptive Report to accompany

4222 4221

Hydrographic Sheets Field Nos H & I.

Napa River, California

The hydrographic survey shown on these two sheets constitute a resurvey called for in instructions dated June 1 1921.

So many changes in depth were found that a complete survey was made. These changes show from one to twelve feet less depth south of the railroad drawbridge at Brazos and up to ten feet more above the bridge.

The increased depth above the drawbridge is perhaps in some cased caused by gravel dredgers.

The channel remains approximately in the same place.

The character of the bottom has not been completely indicated on the sheets. In general on Sheet "I" it is mud, and on sheet "H" gravel except as indicated.

The character of the lights are not shown as they are the same as given by the Bureau of Lighthouses.

No sailing directions are needed as the river is navigated only by those with local knowledge who follow the aids to navigation.

The only dangers to navigation are the mud flats, which are especially troublesome between the red spar buoy S 6 and black can buoy C 3.

O.W. Swainson, Chief of Party Commanding, U.S.S. Natoma.

Statistics to accompany Hydrographic Sheet H.

Date	192 2	Letter	Vol.	Pos	Sound	Miles	Vessel.
May	10	a	1	19	146	2.7	M.S.
1.30%	11	b	1	44	291	6.5	
	17	C	1	92	439	8.2	
	18	đ.	1	98	751	14.7	•
				253	16 27	32.1	•

Unit of Soundings	ft.	
Plane of Reference		MLTM
Tide gauge at	Brazos I.	Napa (d day)
Plane of Reference on gauge	3.29	2.94
Lowest tide " " "	-1.25	-1.33
Highest " " " "	8.10	8.15

AND REFER TO NO. 4-DRM

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

WASHINGTON May 15, 1923.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4222

Surveyed in 1922.

Instructions dated June 1, 1921.

Chief of Party, O. W. Swainson.

Surveyed by M. O. Witherbee.

Protracted by M. O. Witherbee.

Soundings plotted by R. W. Byrns.

Verified and inked by J. D. Torrey.

- 1. The records conform to the requirements of the General Instructions except that boat's courses are omitted throughout and the beginnings and endings of lines are not described.
- 2. The plan and character of development fulfill the requirements of the General Instructions and satisfy the specific instructions.
- 3. The sounding line crossings are adequate.
- 4. The information is sufficient for drawing the usual depth curves.
- 5. The junction with H. 4221 is satisfactory.
- 6. The field plotting was completed to the extent prescribed in General Instructions.
- 7. No further surveying is required within the limits of the sheet.
- 8. The character and scope of the surveying and field drafting are good.
- 9. Reviewed by E. P. Ellis, May, 1923.

Hy drographic Sheet No 4222 California

The work convered by this Sheet is a development of Napa" River from the R. R. Drawbridge on the South to the town of "Napa"

In this work the lines rum and soundings taken and sufficient for a good development get there may be some question as to the accuracy in some of the lines due to fixes used or location of positions by some shore object such as home or whoof hot shown on this sheet. It may be that the field party developed a Topographic sheet covering this location and that the shore lines were taken from it but the office does not show any Topographic sheet for this locality later than 1858 No 777. A Topographic Sheet is referred to in a note on the sheet but indefinimente as to whether it refers to the one of 1858 or a new one.

John D. Torney Feb. Do. 1923.

Section of Field Records Durveyed in 1922 Shut no. 4221 Report on shut 4221 Chief of party - Qw. Rwanson Protracted by - R. w. B. Roundings Pl. by - R. w.B. . Unified & Ahled by - KEIN. 1. The records conform to ih requirement of the general unstructions. Throughout no headings by compass" were given in ich records. 2. The blan and character of it development fulfel iche general inotructions. 3. Sounding ein crossings are adiquat. note: in the small channels but on him of sounding was taken - following the channel. 4 Elu monal de til curves can be diawn. 5. Fill plotting was completed to ih extent her cribed in the general instructions. 6. In office drafts man clid not have to do over any ung down by it fuld party. 7. The function with adjacent shut are sale factory 8. The further surveying de required. 9. Runarko: de some instances sounding lines are not can pertily contraled by fine. Particularly in. around curves with no mean of notabel hing it wast within of it sounding in with the shows with the shows with the show orly when field to Character woohen surveying - Excellent the Marac Even

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. 4222 Field No. H
State . California
General locality . Napa.River
Locality Railroad drawbridge.to Napa
Chief of party O W. Swainson
Surveyed by M. O Witherbee, H.&G. Eng
Date of survey Nay, 1922
Scale 1 ; 10,000
Soundings in Feet
Plane of reference Mean lower low water
Protracted by .M.O.W Soundings in pencil by .R.W.Byrns
Inked by J. T. Torrey Verified by J. T. Torrey
Records accompanying sheet (check those forwarded):
Des. report, _2 Tide books, Marigrams,1 Boat sheets,
Sounding books, Wire-drag books, Photographs.
Data from other sources affecting sheet

Remarks:

H. 4221 applied in part to Reconstr. 5533 1954. Napa R. area superseded.

4221 1922

G. & G. SURVEY

Diag. Cht. No. 5502-1 & 2

4227 1 see # 4222

Form 504 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY State: California	
DESCRIPTIVE REPORT.	
Hydro Sheet No. 4221	-
LOCALITY:	
Vallar L	
R. B. Draw Grider	
1920	
OHIEF OF PARTY:	

Statistics to accompany Hydrographic Sheet I.

Date 1922	Letter	Vol	Pos	Sound	Miles	Vessel.
Apr. 6	a	1	149	783	19.7	M.S
7	ъ	1&2	182	1074	22.0	
10	a	2	26	164	4.0	
11	d	2	128	713	14.6	••
12		2&3	102	547	11.6	
13	f	3	95	508	11.3	
May 9	g	3	2 3	145	2.2	
10	h	. 3	56	375	6.0	
11	i	3&4	71	39 8	8.8	
23	j	4	61	294	5.5	
	•	•	893	5001	105.7	

Unit of Soundings		ft	•				
Plane of Reference				M L	L W		
Tide gauge at	-	Mare	Island		Brazos I	. (d,e,f,g,h,& i	days)
Plane of Reference	on	gauge	0.36		3.29		
Lowest tide "	11	11	-0.26		-1.25		
Highest " "	**	11	2.15		8.10		

Peb. 9. 1923.

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in volumes of sounding records for

HYDROGRAPHIC SHEET 4221.

Locality: Mapa River, Sen Pable Ray, Cal.

Chief of Party O. W. Smainson, in 1922
Plane of reference is mean lower low water
O.4 ft. on tide staff at Mare Island, (Mayy , Auto. gauge)
3.5 " " " Brases drawbridge.

For reduction of soundings, condition of records satisfactory except as checked below:

- 1. Locality and sublocality of survey omitted.
- 2. Month and day of month omitted.
- 73. Time meridian not given at beginning of day's work.
- A. Time (whether A.M. or P.M.) not given at beginning of day's work.
- 5. Soundings (whether in feet or fathoms) not clearly shown in record.
- 6. Leadline correction entered in wrong column.
- 7. Field reductions entered in "Office" column.
- 8. Location of tide gauge not given at beginning of each day's work.
- 9. Leadline corrections not clearly stated.
- 1D. Kind of sounding tube used not stated.
- 11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
- 12. Legibility of record could be improved.
- 13. Remarks.

Acting Chief, Division of Tides and Currents.

AND REFER TO NO. 4-DFM

. (

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

WASHINGTON May 15, 1923.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4221

Surveyed in 1922

Instructions dated June 1, 1921.

Chief of Party, O. W. Swainson.

Surveyed by M. O. Witherbee.

Protracted and soundings plotted by R. W. Byrns.

Verified and inked by H. E. MacEwen.

- 1. The records conform to the requirements of the General Instructions except that boat's courses are not given and the beginnings and endings of sounding lines are not described.
- 2. The plan and character of development fulfill the requirements of the General Instructions.
- 3. The plan and character of development satisfy the specific instructions.
- 4. The sounding line crossings are adequate.
- 5. The information is sufficient for drawing the usual depth curves.
- 6. The junction with H. 4222 is satisfactory.
- 7. The field plotting was completed to the extent prescribed in the General Instructions. On some shoal areas soundings were plotted in fractions contrary to the General Instructions.
- 8. No further surveying is required within the limits of the sheet.
- 9. The character and scope of the surveying and field drafting are good.
- 10. Reviewed by B. P. Ellis, May, 1923.

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. 4221	Field No. I
State California	
General locality Napa River	
Locality Valle jo to Pailroad Drawbridge	
Chief of party QW. Swainson	
Surveyed by . M. Q. Witherbee, .H. & GEng.	
Date of survey . April and May, 1922	
Scale 1 : 10,000	
Soundings in . Feet	
Plane of reference Mean Lower Low Water	
Protracted by . R. W. B. Soundings in pencil	by .R. W. B.
Inked by Verified by	
Records accompanying sheet (check those forward	ed):
Des. report,2 Tide books, Marigrams,	
Sounding books, Wire-drag books,	Photographs.
Data from other sources affecting sheet	
* Hourly readings taken from Navy marigram	

Remarks: