

4589a, b

4589a, b

Form 501  
DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

State: California

1-5613

DESCRIPTIVE REPORT.

Sheet No. 45892

LOCALITY:

Coast

Greenwood Landing

1926

CHIEF OF PARTY:

C.K. Green

DESCRIPTIVE      REPORT

To accompany hydrographic sheet, Greenwood Landing, California.

Instructions of May 29, 1926.

Additional soundings were taken in the vicinity of the landing on account of the drag operations being restricted by growing kelp. The breaker shown as 14 feet on the chart, on the north side of the entrance to the landing, (B day soundings) was carefully investigated and two 5 foot soundings were found. The rock is kelp covered and could not be dragged.

Soundings for least depth were taken in all the kelp patches south of Cuffey Inlet, the shoalest being 4 feet (position 6D).

As previous surveys showed no soundings in Cuffey Inlet, it was thought advisable to show the depth, as the Inlet affords excellent protection for small boats in northwest weather. Boats pass north of the rock awash at low water (position 28D) when entering. Gusts of wind and the size of the party in the skiff made it difficult to run regular lines. The Inlet was viewed from the 140 foot cliffs above it; the bottom was visible, and there are no obstructions. There is a depth of about 4 fathoms between positions 18D and 19D.

See "Corrections to Pacific Coast Pilot", of October 29, 1926, submitted by this party.

*Chas. K. Green*  
*H. & L. Engrs.*

STATISTICS. SOUNDINGS GREENWOOD LANDING, CALIFORNIA.

<u>Date. 1926</u>	<u>Letter</u>	<u>Volume</u>	<u>Positions</u>	<u>Soundings</u>	<u>Miles Statute</u>
July 16	A	1	18	35	0.6
Sept 16	B	1	8	8	0.5
Sept 20	C	1	24	78	1.5
Sept 21	D	1	29	70	1.4
<u>Total</u>			79	189	4.0

Soundings are plotted in feet.

Plane of reference , Mean Lower Low Water.

Mean Lower Low Water on tide staff is 1.87 feet.

Lowest tide observed, reading on gauge ; 0.3 ft. at 6:25/on June 27, 1926 a.m.

Highest tide observed, reading on gauge ; 8.9 ft. at 11:00/on June 26, 1926 P.M.

Plain staff on pile near triangulation station Cove.

Only one tide staff used.

Hydrographic Sheet No. 4589<sup>a</sup>  
Greenwood Landing and Giffey Inlet.  
"California."

This work covers two small areas and while the work is not close it appears sufficient for an approximate development of both areas.

Protracting and plotting by Field Party approximately accurate.

John D. Torrey.  
Feb 7/27

11

January 22, 1927.

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in  
1 volumes of sounding records for

HYDROGRAPHIC SHEET NO. 4589A

Locality: COAST OF CALIFORNIA

Chief of Party: C. K. Green

Plane of reference is M L L W  
1.9 ft. on tide staff at Greenwood

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
3. Time meridian not given at beginning of day's work.
4. 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.
10. 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.



Chief, Division of Tides and Currents.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.  
45892

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. 45892

REGISTER NO.

State CALIFORNIA

General locality ~~MONTEJUNO COUNTY~~ Coast

Locality GREENWOOD LANDING

Scale 1:5000 Date of survey SEPTEMBER, 1926

Vessel SHOREPARTY

Chief of Party C. K. GREEN

Surveyed by C. K. GREEN

Protracted by W. J. CHOYAN

Soundings penciled by W. J. CHOYAN

Soundings in ~~fathoms~~ feet

Plane of reference MEAN LOWER LOW WATER

Subdivision of wire dragged areas by

Inked by J. D. Torrey

Verified by J. D. Torrey

Instructions dated MAY 29, 1926

Remarks:

4589b

WIRE DRAG

4589b

Form 504

**DEPARTMENT OF COMMERCE**  
U. S. COAST AND GEODETIC SURVEY  
....., Director

**G. & G. SURVEY**  
L. & A.

State: California      Acc. No.

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**DESCRIPTIVE REPORT**

~~Topographic~~ } Sheet No. **4589b**  
Hydrographic }

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WIRE DRAG      LOCALITY

Coast

Greenwood Landing

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1926

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CHIEF OF PARTY

C.K. Green

GOVERNMENT PRINTING OFFICE

DESCRIPTIVE      REPORT

To accompany Wire Drag sheet of Greenwood Landing, California.

General:

The approaches to the landing were covered to a depth of 34 feet or over, and the proposed large steamer mooring area covered to a depth of 28 feet. The off-shore limit of the dragged area extends beyond the 15 fathom curve, while growing kelp limited the drag inshore. An endeavor was made to carry a 21 foot drag into Cuffey Cove, but the drag was stopped at position 80 B by growing kelp which extends from this position eastward to the shore.

The head and starboard bow moorings are in deep water, and the loading cable mooring is north of the basin in which the vessels maneuver. They are not a menace to shipping. With the exception of the small pick-up buoy (not shown on the sheet) the buoys were not removed for the drag operations. The drag was brought up on the head buoy chain from two directions, leaving no split around the buoy.

Equipment:

The standard light wire drag was used with two 10 H. P. fishing launches. The launches were ideal for this type of work. They were throttled down to about one mile per hour in still water, and there was never any lift due to excessive pull on the drag.

Shoals located:

The 16 foot rock, position 1a, is about 10 meters long north and south and is surrounded by 10 fathoms of water; the area of shoalest soundings is small, and covered with kelp. The rock could not be covered with the drag on account of growing kelp.

The sunken rocks (B day) 200 meters east of Nose Rock, have patches of growing kelp on them and could not be covered with the drag. These rocks and the above 16 foot rock interfere in no way with the approaches to the landing.

The rocks along the south edge of the inshore dragged area (positions 1c, 2c, 1d, 6d, 7d, 10d, 13d) are too close to the large rocks and kelp to cover with the drag. Sunken rocks 1d and 2c caught the towline while the guide launch was passing close to the large rocks and kelp, grounding N when the drag rendered around.

Positions 8d and 9d (34 and 29 feet) were hooked below depth while maneuvering drag to new position.

Tides:

A plane tide staff on the dock was used. 1.87 feet on the staff is mean lower low water, as determined by comparative readings with the San Francisco automatic gauge.

*Chas. K. Green*  
*H. & S. Engrs.*



STATISTICS, WIRE DRAG GREENWOOD LANDING, CALIFORNIA.

<u>DATE</u>	<u>LETTER</u>	<u>VOLUME</u>	<u>LENGTH OF DRAG</u>	<u>POSITION</u>	<u>MILES STATUTE</u>	<u>SOUNDINGS</u>
Sept. 17	A	1	1400	39	1.5	1
Sept. 18	B	1	1400	82	3.2	5
Sept. 19	C	1	600	14	1.0	2
Sept. 20	D	1	400	30	1.0	13
<u>TOTAL</u>				165	6.7	21

Soundings and drag depths are in feet.

Plane of reference, Mean Lower Low Water.

Mean Lower Low Water on tide staff is 1.87 feet.

Lowest tide observed, reading on gauge; 0.3 ft. at 6:25 a.m. on June 27, 1926

Highest tide observed, reading on gauge; 8.9 ft. at 11:00 P.M. on June 26, 1926

Plain staff on pile near triangulation station Cove.

Only one tide staff used.

IN REPLY ADDRESS THE DIRECTOR  
U. S. COAST AND GEODETIC SURVEY  
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO No. 11-DRM

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

June 24, 1927.

SECTION OF FIELD RECORDS

Report on Wire Drag Sheet No. 4589<sup>b</sup>

Greenwood Landing, Calif.

Surveyed in 1926

Instructions dated May 29, 1926 (Green)

Chief of Party, C. K. Green.

Surveyed by C. K. G.

Plotted and inked by I. E. Rittenberg.

Verified and Area and Depth Sheet by R. L. Johnston.

1. The records conform to the requirements of the General Instructions except that no tests for lift are recorded. However, notes appear throughout the work to the effect that the drag is being towed at a slow speed without lift. The lack of a tender probably accounts for the failure to make the required tests.
2. The depth and extent of dragging satisfy the specific instructions except that the drag strip leading in to Cuffey Cove should have been set at least to an effective depth of 32 feet, since the depths here range from 8 to 15 fathoms.
3. The least water was found on all important shoals discovered except the 16 foot rock in Lat. 39° 08' 346 m., Long. 123° 44' 291 m. This rock is marked by kelp which probably accounts for it not having been subsequently cleared. As the rock is of very small extent it is possible that 16 represents the least depth over it. In connection with this rock it should be noted that a 37 foot drag (positions 1-9 A not inked) passed over this rock with a horizontal clearance of 25 meters. The field party did not ink this strip, but no reason was given except a note in the effective depth diagram, "not plotted". The drag is noted as parted after position 9 A, and it is possible that the uncertainty as to when the drag actually parted was considered sufficient to omit the entire strip, although the plotting of the strip does not indicate that the drag was parted when it passed in the vicinity of the 16 foot rock. However, in view of the definite loca-

tion of the rock (2 independent fixes were taken) and the fact that the area covered by the above strip was later covered by other strips, it was considered advisable to omit the inking of this strip on the smooth sheet. An explanatory note should have been made by the field party relative thereto.

4. There are no important splits within the area of this survey. The overlaps are sufficient.
5. The field plotting was completed to the extent prescribed in the General Instructions except that the drag soundings should not have been inked by the field party. Most of the soundings had to be redrawn since they were unsatisfactory for finished work. The shoreline and offshore features such as kelp and rocks were crudely inked. Otherwise the work was well done.
6. No additional work is considered necessary here at present and it appears that the survey is sufficient for the purpose intended.
- ~~7. No descriptive report was submitted with this sheet.~~
8. Character and scope of field operations - excellent.  
Field drafting - good.
9. Reviewed by A. L. Shalowitz, June, 1927.

Approved:

\_\_\_\_\_  
Chief, Section of Field Records (Charts)

*L. O. Robert.*  
\_\_\_\_\_  
Chief, Section of Field Work (H. & T.)

H. D. 4589 b

At the time this sheet was verified, the descriptive report for Hyd. 4589 a was mislaid and could not be located. The records show that no descriptive report was turned in for Hyd 4589 b. Within the limits of the drag work no splits occur, with the exception of a small buoy split.

The section from Pos 1A to Pos 9A, has not been plotted on the sheet, yet no note has been made in the records except in the effective depth diagram, the section is marked "not plotted". The reason for not plotting this section should have been stated in the records. If plotted, it would pass directly over the sixteen foot rock at Pos 1A (sounding record) with an effective depth of thirty seven feet.

There is also a section from pos 5D to pos 9D, which was not plotted, without any note being made in the record. This is unimportant as no additional area is covered.

With the above exceptions, the records are satisfactory.

The protracting and plotting <sup>are</sup> very well done.

Contrary to regulations the soundings were inked by the field party.

The shoreline and outside features were very crudely inked.

P. L. Johnston

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4589b

HYDROGRAPHIC TITLE SHEET

WIRE DRAG ~~GREENWOOD LANDING~~

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. \_\_\_\_\_

REGISTER NO. 4589b

State CALIFORNIA

General locality MENDOCINO COUNTY COAST

Locality GREENWOOD LANDING

Scale 1:5000 Date of survey Sept. 17-20, 1926

Vessel Shore Party

Chief of Party C. K. Green

Surveyed by C. K. Green

Protracted by I. E. Rittenburg

Soundings penciled by I. E. Rittenburg

Soundings in ~~XXXXXX~~ feet

Plane of reference Mean Lower Low Water

Subdivision of wire dragged areas by I. E. Rittenburg

Inked by I. E. Rittenburg

Verified by \_\_\_\_\_

Instructions dated May 29, 1926

Remarks: \_\_\_\_\_

January 25, 1927.

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Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in  
3 volumes of sounding records for

HYDROGRAPHIC SHEET NO. 4589B

Locality: COAST OF CALIFORNIA.

Chief of Party: C. K. Green

Plane of reference is M L L W  
1.9 ft. on tide staff at Greenwood.

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
3. Time meridian not given at beginning of day's work.
4. 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.
10. 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.

Chief, Division of Tides and Currents.