

4788

Form 504 Ed. June, 1923	
DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY H. S. Patton, Director	
<div style="border: 1px solid black; width: 100px; height: 80px; margin: 0 auto;"></div>	
State: <u>CALIFORNIA</u>	
DESCRIPTIVE REPORT	
Topographic. Hydrographic	Sheet No. B 4788
LOCALITY	
Monterey Bay	
Salinas River to Moss Landing	
1933	
CHIEF OF PARTY	
G. C. Jones.	

DESCRIPTIVE REPORT
to accompany
TOPOGRAPHIC SHEET "B"

U.S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

LOCALITY

This sheet covers the area from 1 mile south of Salinas River to the mouth of Elkhorn Slough (1-3/4 miles south of Pajaro River). It joins with Sheet "C" on the southern end and with Sheet "A" on the northern end.

AUTHORITY

Survey was made under the Director's instructions dated April 4, 1932, and supplemental instructions March 27, 1933. (Project HT-130).

GENERAL DESCRIPTION

From the southern end of this sheet to 1/4 mile north of Moss Landing wharf the shore line runs in a northeasterly direction; it then turns and takes a northwesterly direction to the northern end of the sheet. No offlying rocks or reefs exist and the sand beach is composed of a coarse sand at the southern end gradually grading into a fine sand at Salinas River. This fine-sand beach prevails to the northern end of the sheet.

At the southern end of the sheet a strip of high sand dunes 50-100 feet in height and 650 meters in width parallels the shore. These dunes are partly covered with low brush, present a yellowish brown appearance, and contain no distinctive peaks that can

serve as landmarks. The height of these dunes makes it impossible to observe from the bay any inland detail in the cultivated land beyond them. At the northern end of these high dunes are the lowlands at the mouth of Salinas River. In the summer months the flow of water in this river is not sufficient to keep open the mouth of the river, which is consequently blocked by a sand bar as shown on the sheet; therefore the lower end of Salinas River is in reality a lagoon in the summer. With the coming of winter rains, the mouth of the river is opened by artificial means at the region noted on the sheet.

Just north of the Salinas River is located triangulation station MULLIGAN; this station lies on Mulligan Hill, a hill of elevation 58 feet, 160 by 90 meters in area, with very steep sides rising abruptly from the lowland around it. The hill presents a brownish grey appearance.

At topographic station LEE another strip of sand dunes parallels the beach. These dunes are lower in height, but as far as topographic station FOX present the same yellowish brown appearance as the higher dunes south of Salinas River. North of FOX to the mouth of Elkhorn slough, the dunes are white in appearance, lower still in height, and broken only by the wharf and buildings at Moss

Landing. North of the mouth of Elkhorn Slough another strip of sand dunes are found, continuing to the northern end of the sheet.

From the Salinas River to triangulation station MOSS the height of the dunes cuts off all views of inland detail beyond them; ~~the~~ the higher ground at this station and the high plateau lying between Moro Cojo slough and Elkhorn Slough are readily visible from the bay. As indicated on the sheet this high plateau breaks off in a steep bluff 40 feet in height for a distance of 1/2 mile north of latitude 36° -48'. A row of tall eucalyptus trees at the top of this bluff tends to accentuate the height of the bluff. Low rolling cultivated hills prevail inland from Elkhorn Slough to the northern end of the sheet. In the far distance thickly-wooded mountains form a dark background for the full length of the sheet.

SHORE LINE CHANGES

Careful comparison between the 1910 and present high water lines was made. From the southern end of the sheet to the mouth of Salinas River, little discrepancy is to be found. The Salinas River has straightened its course since 1910 with the result that the mouth of the river is now 1300 meters north of its 1910 location. Near topographic station LEE the present shore line is as

great as 40 meters inside of the 1910 line, while from topographic station KO to topographic station GAG the discrepancy is in the opposite direction; a maximum difference of 90 meters is found here. The only explanation for the shore line lying outside of the 1910 line here is that the Salinas River in high stages of water washes out the sand near its mouth and the current in the bay deposits the sand in the region noted above.

North of topographic station GAG to the mouth of Elkhorn Slough very little discrepancy is found between the two shore lines. The mouth of this slough is found to be 320 meters north of its position in 1910. This is not remarkable as the beach for a length of 500 meters at this point is very flat and winter waters are very likely to alter the position of this mouth from year to year within the range of that strip of low sand.

North of the mouth of Elkhorn Slough very little discrepancy between the two shore lines is found.

LANDMARKS

Mulligan Hill should be charted since it rises over 50 feet above the surrounding terrain and is of sufficient size (160 by 90 meters) to be quite prominent. Its steep sides make the hill show up quite distinctly; the hill presents the appearance of a brownish grey island.

Topographic Station WIND is a windmill 28 feet in height that shows up back of the lowland between it and the bay with sufficient prominence that it was used for

hydrographic work.

The oil tank located by triangulation and marked n.d., called MOSS BEACH, STANDARD OIL CO. TANK, 1932, is quite prominent. Aluminum colored, it is 17 meters in diameter and 50 feet in height. As shown on the sheet, two smaller and lower tanks lie just south of the large one.

The stucco house just south of Moss Landing Wharf should be charted, as it is prominently situated on the top of the sand dunes. The house is 18 feet in height; the northwest corner has been listed among the landmarks.

The black stack located by triangulation and marked n.d., called MOSS BEACH, BLACK SMOKE STACK, 1932, is also quite prominent. It rises to a height of 70 feet and is a solid black color.

The white barn located by triangulation and marked n.d., called BARN, GREEN ROOF, 1932, is quite prominent. It is a white barn with green roof and is 25 feet high; the north gable was located by triangulation.

Topographic station MILI is a windmill 26 feet in height, and, although it is not as prominent as the barn mentioned above, it is thought that if the windmill were also charted it would serve as a good identification mark for the barn.

PREVIOUSLY CHARTED LANDMARKS

The tall windmill shown on Chart 5403 as a landmark should not be shown any differently than any other windmill. It is not visible from the bay and is no higher than many windmills. The position of this windmill is latitude $36^{\circ}-45'$ 1287 meters, longitude $121^{\circ}-47'$ 316 meters.

The P.V.C.R.R., a narrow gauge railroad shown on Charts 5402 and 5403 should be removed from the charts, as this railroad has been discontinued and its tracks and bridges removed.

CONTROL

A plane table was used throughout. Triangulation stations used in the 1932 network served as a basis of control.

CLOSING ERRORS

All traverses had closing errors well within the allowable of 4 meters per mile of traverse. The maximum closing error amounted to only 4 meters, with the general run being less than 2 meters. In all instances the traverses and related topography were adjusted according to the method advised in the Manual.

REVISION DISCREPANCIES

All artificial objects showing discrepancies between this sheet and Register nos. 473a, and 478a, are shown correctly on this sheet, as they are located from closed

traverses with very good control, or have been checked by several cuts. All the artificial features, such as houses, wharves, fences, tanks, etc., now in existence within the limits of this resurvey, are shown on this sheet, and therefore all such features shown on the above sheets and not on this sheet, should be eliminated.

Previous mention has been made of the discontinuing of the Pajaro Valley Consolidated R. R., and also of the change in the mouths of Salinas River and Elkhorn Slough.

The slough shown on Reg. no. 473a and lettered Salinas River is shown incorrectly on that sheet. The slough is actually a former channel for the Salinas River and is therefore called Old Salinas River Channel on this sheet, as it is on Reg. no. 478a.

The windmill located by triangulation and marked n.d., called MULLIGAN, WINDMILL N.N.E. of, 1932, latitude $36^{\circ}-45' 13.24''$, longitude $121^{\circ}-47' 35.54''$, should be stricken from the list, as its position is in error. By plane table the position of this windmill is as shown in the list of plane table positions (topographic station WIND).

LOCAL NAMES

Cooper Slough is the local name of the slough near triangulation station CASTROVILLE and Moro Cojo Slough

is the local name for the slough near triangulation station MOSS. Neither of these names appear on the above-mentioned photostats, but both appear by those names on Chart 5403.

Pauls Island is the local name for the region at latitude 36° -49' upon which the salt farm is situated. This name does not appear on sheet no. 473a, but does appear on Charts 5402 and 5403.

DECLINATOIRE

There was no nearby station at which the declination was known; therefore the declinoire error has not been determined. Comparison with the declination as determined by the compass-declinometer at the common station, ELKHORN, will give the correction to be applied to the declinoire.

STATISTICS

Statute miles of shoreline - - - 8.0

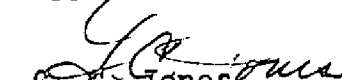
Area, square statute miles - - - 9.7

Respectfully submitted,



Wm. J. Bardin,
Engineer Hand.

Approved and forwarded:



G. C. Jones,
H. & G. Engr., C. & G. S.

PLANE-TABLE POSITIONS

Object and description	Latitude	D. M.	Longi- tude	D. P.	Height	Remarks
Windmill	36° 43'	Meters 353	121° 47'	Meters 747	Feet 30	Top.
Windmill	36 43	1,015	121 47	377	30	Do.
R. R. Warehouse	36 43	1,192	121 47	195	25	S. Gable
Large white house	36 43	1,422	121 47	472	40	N. Gable
Watertank	36 43	1,775	121 46	1,153	20	Top.
Watertank	36 44	060	121 46	1,116	25	Do.
Windmill	36 44	374	121 46	1,300	30	Do.
Windmill	36 44	582	121 46	1,482	30	Do.
Windmill	36 44	1,768	121 47	1,220	32	Do.
Watertank	36 45	011	121 47	016	30	Do.
Windmill	36 45	189	121 47	873	28	Do.
Windmill	36 45	565	121 47	559	30	Do.
Transformer pole	36 45	658	121 47	1,447	30	Do.
Tall windmill	36 45	1,287	121 47	316	40	Do.
Windmill	36 45	1,771	121 47	1,027	35	Do.
Barn	36 46	1,117	121 46	1,475	26	N. Gable
Windmill	36 46	1,205	121 47	1,193	28	Top.
Windmill	36 47	506	121 46	1,343	30	Do.
Windmill	36 47	768	121 46	1,326	30	Do.
Windmill	36 47	929	121 47	297	25	Do.
Old barn	36 47	1,074	121 47	229	17	N. E. corner
Watertank	36 47	1,306	121 47	237	15	Top.
School house	36 47	1,498	121 47	179	25	N. E. corner.

Datum - North American 1927.

PLANE-TABLE POSITIONS

(continued)

Object and description	Latitude	D. M.	Longi- tude	D. P.	Height	Remarks
Large warehouse	36° 47'	Meters 1,723	121° 47'	Meters 254	Feet 30	S. Gable
Large warehouse	36 47	1,809	121 47	227	30	N. Gable
Radio tower	36 47	1,831	121 47	023	60	Top.
Radio tower	36 47	1,832	121 47	063	60	Do.
House (Stucco)	36 48	000	121 47	451	18	N. W. corner
Large warehouse	36 48	041	121 47	350	30	E. Gable
Large warehouse	36 48	088	121 47	426	40	W. Gable
House	36 48	136	121 47	346	20	W. Corner
House	36 48	273	121 47	304	36	N. W. corner
Sand bunker	36 48	398	121 47	316	25	Top.
Flag pole	36 48	1,054	121 46	1,232	60	Do.
Restaurant	36 48	1,144	121 47	093	22	S. E. corner
Shed	36 48	1,435	121 46	1,132	12	S. W. corner
Windmill	36 48	1,672	121 47	074	22	Top.
Watertank	36 49	457	121 46	352	25	Do.
Windmill	36 49	674	121 47	282	26	Do.
House	36 49	756	121 46	1,163	32	S. W. corner
Windmill	36 49	845	121 46	1,431	30	Top.
Small house	36 49	1,075	121 47	1,116	16	N. E. corner

Datum - North American 1927.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

U. S. COAST AND GEODETIC SURVEY
U. S. COAST AND GEODETIC SURVEY

REG. NO. 1000

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field Letter B

REGISTER NO. 33

State Central California

General locality Monterey Bay

Locality Salinas River to Moss Landing

Scale 1:10,000 Date of survey May, 19 33

Vessel Shore party; project HT-130

Chief of Party G. C. Jones

Surveyed by W. J. Bardin

Inked by W. J. Bardin

Heights in feet above M.H.W. to ground ~~to tops of trees~~

~~Contours~~ Approximate contour ~~From time interval~~ 50 feet

Instructions dated April 4, 19 32

Supplemental, March 27, 19 33

Remarks: _____