

4627

Form 504  
Ed. June, 1923  
DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

R. A. Patton, Director U. S. COAST & GEODETIC SURVEY  
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DEC 18 1931

State: California

Acc. No.

DESCRIPTIVE REPORT

Topographic  
Hydrographic

Sheet No.  
# 6

4627

LOCALITY

South San Francisco Bay

Vicinity of Coyote Creek

1931

CHIEF OF PARTY

G. C. Jones

DESCRIPTIVE REPORT  
TO ACCOMPANY SHEET G

Date of Instructions. September 8 1930

General

This sheet includes the sloughs at the south end of South San Francisco Bay District. The coast is marsh with salt ponds on the west side of the sheet on both sides of the bay. There is no well defined shore line or high water line in the following places; on the north side of the bay from the west side of the sheet to the mouth of Warm Springs Creek, North side of Gray Goose Slough from its mouth to  $121^{\circ} 59'$ , on the South side of Gray Goose Slough from its mouth to  $37^{\circ} 27' 1100$  and from  $37^{\circ} 27' 700m$  to the railroad, both sides and the island of Coyote Creek from  $121^{\circ} 58'$  Eastward to the large square transmission towers near the head of Coyote Creek, North side of Alviso Slough from  $37^{\circ} 27' 1000m$  to  $122^{\circ} 00' 800m$ , on the North side of Coyote Creek from  $121^{\circ} 59'$  to  $121^{\circ} 58' 800m$ . On the rest of the sheet there is a slope or bank that will not vary from the edge of the grass more than one or two meters, and in these places the bank was run. In the places above mentioned the edge of the grass was taken as the shore line.

The area North of Alviso Slough West of line From Triangulation Station Tank, Bay Side Canning Co. to Triangulation Station Transmission Tower in turn; to Warm Springs Creek is low marsh and cut up by many small sloughs and much of it is covered with water at high tide. The marsh North of Warm Springs Creek, West of  $121^{\circ} 57'$ , South of <sup>Triangulation Station</sup> Mallard and East of the railroad is of the same character.

## Control.

For control, Triangulation Stations located in 1931 were used. The taller transmission towers, those in turns, and all the tanks were located and were visible for long distances, giving very good control especially for three point fixes. The line of transmission towers on the S.W. side of the sheet were cut in from control stations when the work was first begun and proved to be useful in control. At least three signals could be seen from any point on the sheet and good three point fixes obtained. If an error was found it was investigated and corrected at once in the field.

## ~~XXXXX~~. Detail and Control for the Photographs.

A letter from the Director stated that topography should be done in such detail as to control the photographs. There are steel transmission towers on all sides of the sheet. *except those mentioned below* They were located by Triangulation or by cuts on the plane table from at least three strong positions. The locations of the towers were checked by stadia distances from the plane table every time the table was set up near a tower.

Levies have not been run except those parallel to shore line or sloughs. Such detail as groups of houses, has been omitted except for a few well defined points that will be useful for photographic control.

## Names.

Warm Springs Creek is the name used locally, and is on the railroad bridge, for what was called Mud Slough on the chart.

Inaccurate locations.

Following are towers, shown on the sheet, only located approximately or arbitrarily placed on the sheet: All but Southern three towers in the line beginning at Triangulation Station Transmission Tower in turn at  $37^{\circ} 26'$  808.3 meters  $121^{\circ} 57'$  17.3 meters and ending at tower in turn at  $37^{\circ} 28'$  890 meters  $121^{\circ} 57'$  09.5 meters; three pairs of towers north of  $37^{\circ} 28'$  415 m & 408 m  $122^{\circ} 01'$  185 m & 195.5 m and south of  $37^{\circ} 28'$  1181.5 m & 1173 m  $122^{\circ} 00'$  1174.5 m & 1190 m. They should not be used as control for the Photographs. *The towers in these two groups are circled in pencil on the sheet.* Work in progress and changes.

At Alviso Yacht Harbor a dredge is at work deepening the channel and increasing the size of the slough and harbor.

San Jose is trying to get help to have a deep water harbor at the mouth of Guadalupe river. There is no work going on at present but should the army engineers turn in a favorable report some work may be done in the near future.

The small salt ponds shown North of Triangulation Station Larkin have been constructed since work on the sheet started. A road has been constructed around them.

Distortion.

Distortion was very little during the field work. When the sheet was completed the west side was short 7 meters in 10,000. The South side was short 6 meters in 7,500 meters. It was about the same amount throughout. Along the  $57'$  meridian for a short distance each side the sheet is 5 meters short per minute of latitude. This distortion was after the work on that side was complete.

Inking.

Conventional signs for marsh, levies, salt ponds etc have been omitted in accordance with the directors letter of July 7 1931.

List of plane table positions, sheet G

Object and description	Latitude °	D.L. meters	Long. °	D.T. meters	Remarks
Transmission tower in turn Single line.	37 30	401	121 59	1011	
Large black transmission tower near Substation	37 30	279	121 59	799	
North tower in turn of double line.	37 29	1709	121 59	1109	
South tower in turn of double line.	37 29	1754	121 59	1105	
Tower in turn S. . of P.G.&E. substation.	37 26	1450	122 01	516	
Tower in turn S.W. of P.G.&E. Substation.	37 25	1570	121 59	1075.5	
East trans.tower in turn west of Warm Springs Landing.	37 28	890	121 57	09.5	
W.tower in turn Near Warm Springs Landing. East of double line.	37 28	888	121 57	24	
Tower in turn end of three lines, one line branches	37 29	543	121 57	1066.5	
Tower in turn, end of three lines one line branches	37 29	546	121 57	1050	
Tower in turn end of three lines. one line branches.	37 29	576.5	121 57	1048.5	
Tower at spread in double line. S. . P.G.&E Substation	37 29	946	122 00	121	
Tower at spread in double line S.W. P.G.&E. Substation.	37 29	974	122 00	172	

*H. S. Conerly*  
H. S. Conerly  
Deck Officer C. & G. S.

Approved;

*G. S. Jones*  
G. S. Jones  
H. & G. S. C. & G. S.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4627

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 No. G

REGISTER NO. 4627

State California

General locality South San Francisco Bay

Locality Vicinity of Coyote Creek

Scale 1:10,000 Date of survey Aug. & Sept., 1931

Vessel Project # 70

Chief of Party G. C. Jones

Surveyed by H. G. Conerly

Inked by H. G. C.

Heights in feet above HW to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated Sept., 8, 1930, 192

Remarks: