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Department of Commerce and Labor
COAST AND GEODETIC SURVEY

W. H. Stettin
Superintendent.

State: *N.J.*

DESCRIPTIVE REPORT.

N. H. Sheet No. *3450*

LOCALITY:

1914

CHIEF OF PARTY:

Stephen Torrey

11-4045

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DEPARTMENT OF COMMERCE.

DESCRIPTIVE REPORT.

COAST AND GEODETIC SURVEY.

O H TITTMANN SUPERINTENDENT

TOPOGRAPHIC SHEET (9)

RIELLY TRIANGULATION TO ^{ec}SECOND RIVER.

PASSAIC RIVER NEW JERSEY.

SURVEYED 1914

SCALE 1/5,000

(a) General description.

The shores of the Passaic River within the limits of this sheet on both sides are lined with wharves, docks and extensive manufacturies, Harrison- Kearney and Southern Arlington on the eastern shore and The city of Newark on the western shore, from Rielly triangulation station to Bridgestreet the river runs in a westerly direction, here it takes a turn and runs in a northerly direction.

(b) Currents,

The currents within the limits of this sheet are tidal and set fair with the channel, The ebb and flood tides follow each other at an interval of about twenty minutes, the average rise and fall of tide is about 4 feet, the current on the ebb tide is strong and swift, owing to the vast amount of acids-chemicals and other refuse matter dumped in to the river from the mills ice very seldom forms in the coldest weather, last winter there was no ice formed on this part of the river. (h) Changes in the shore line.

The shore line within the limits of this sheet has undergone many

(2)

changes, in the way of improvements along the water fronts during the past ten years, many new buildings such as factories-wharves and other structures have been built, old land marks have been removed old bridges torn down and new ones constructed.

(I) Methods of survey.

The street lines along the water fronts and some of those running up from the river in to the towns and cities were determined with the plane table, all of the streets shown on this sheet were transferred from tracings obtained from the city engineers of Newark-Harrison-Kearney and Arlington, all rail roads were put on this sheet from tracings obtained from the engineers of their respective roads.

The field work on this sheet was executed while Assistant E. B. Latham was chief of party and was inked by him, during my illness.

Stephen J. Ferry
Chief of Party