

ANNUAL REPORT

OF THE

Riparian Commissioners

OF THE

State of New Jersey

FOR THE YEAR

1904

WITH ACCOMPANYING DOCUMENTS.

PATERSON, N. J.:

NEWS PRINTING COMPANY, STATE PRINTERS.

1905.

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Riparian Commissioners.

GOVERNOR FRANKLIN MURPHY, *Chairman* Newark, N. J.
WILLIAM CLOKE, *Vice-Chairman* Trenton, N. J.
ROBERT WILLIAMS Paterson, N. J.
M. F. McLAUGHLIN Newark, N. J.
JOHN R. REYNOLDS Trenton, N. J.
JOHN C. PAYNE, *Secretary and Engineer* . . . Jersey City, N. J.

Commissioners' Report.

*To His Excellency, Franklin Murphy, Governor of the State of
New Jersey :*

SIR—In conformity with law, the State Board of Riparian Commissioners herewith begs leave to submit its report for the year ending October 31, 1904:

The business of the Commission for the year has aggregated \$83,837.27, details of which will be found in the report of the Engineer and Secretary of the Board, herewith submitted.

The most interesting and important question that came before the Commissioners during the year was involved in an application by the United States Government for ten acres of land under water around Ellis Island. The Government needed this land for the construction of a hospital in connection with the immigrant station. Ellis Island originally belonged to the State of New York, and was ceded by it to the Federal Government. Since acquiring the island, the Government has, from time to time, appropriated and filled in portions of the land under water contiguous thereto, until the entire area of the island has grown from three and one-half acres, when first acquired by the Government, to thirty-six (36) acres at the present time. It is still claimed by the Government to be inadequate for its purpose, and hence the application to the Riparian Commissioners this year for ten acres additional.

The Government, in making the application, claimed that it had the right, under the Constitution, as expounded by the courts, to appropriate such part of the land under water belonging to the

State of New Jersey as it needed for "purposes of commerce," without asking permission; but that it would forego this right and ask for a formal grant, in observance of the comity which should exist between the general Government and the several States. It submitted, for the consideration of the Commission, through Mr. William R. Harr, of the Attorney General's department, a brief setting forth these views.

The final outcome was the agreement on the part of the Commissioners to make a grant of ten acres to the Government for the nominal consideration of \$1,000.

The important point was made and determined in this transaction that the absolute ownership of the State of New Jersey in all lands under water out to the boundary line between New York and New Jersey, established in 1834, is acknowledged by the Federal Government

Along the western shore of Newark Bay, between the mouth of the Passaic River and the Arthur Kill, a distance of nearly five miles, a mud flat extends out from the marshy bank about three thousand feet. This flat is very shallow, large parts of it being bare at low tide, and it is a fatal bar to the commercial development of the shore. The Engineer of the Board suggested, a year ago, that the lines be extended, a certain proportion of these shoals filled in, and the rest be dredged. This plan was adopted by the Board, and it was suggested that your Excellency bring the matter to the attention of the New Jersey Representatives and Senators in Congress, asking their good offices in the matter, as the consent of the general Government to the proposed extension of the lines is necessary.

Such consent has not been given, and as proposed extensive improvements on the adjacent shore are held in check by this obstacle to their development, it is suggested that action in the matter would now be timely. The newly elected Representative from the Ninth District of Hudson County might find in this an inviting opportunity to distinguish himself.

Applications are occasionally made to the Commissioners by municipalities and other parties for some concession in the price

of grants, for various reasons that are urged. Recent decisions of the courts, we are advised by the Attorney General, prohibit the Board from making any grant of riparian property to any applicant except for its full and reasonable value. The Commissioners think that it would simplify matters for this fact to be generally known.

The recent rapid increase of values that has marked the commercial development of these times, adjacent to the State's riparian property on the Hudson River, New York Harbor, the Kill von Kull, Newark Bay, and other waters, has led the Commissioners to make a considerable advance in the price of these lands under water. In some cases the advance has been fully one hundred per cent., and there is reason to believe that the Board will feel justified in making still further advances in some localities in the near future. A few large transactions have failed on account of the firmness with which the Board stands for good prices, but the State holds the property, and it will be worth more in the future.

Respectfully submitted,

WILLIAM CLOKE,
ROBERT WILLIAMS,
M. F. McLAUGHLIN,
JOHN R. REYNOLDS.

Dated, October 31, 1904.

Engineer's Report.

To the Riparian Commissioners of the State of New Jersey:

GENTLEMEN—The following tabular statement shows the grants, leases and licenses made by the Riparian Commissioners during the year ending October 31, 1904, the names of the grantees or leesees, dates, localities and amounts paid, or secured to be paid, to the State:

GRANTS.

DATE.	TO WHOM MADE.	LOCALITY.	COUNTY.	AMOUNT.
September 3, 1903.	Philip V. R. Van Wyck.....	Raritan River.....	Middlesex.....	\$ 250 00
September 3, 1903.	E. R. & J. M. Chadwick.....	Barneгат Bay.....	Ocean.....	75 00
October 29, 1903.	Francis P. Quigley.....	Atlantic Ocean.....	Atlantic.....	1,500 00
October 29, 1903.	William Allen Miller.....	Sandy Hook Bay.....	Monmouth.....	176 00
October 29, 1903.	Ocean City Association.....	Atlantic Ocean.....	Cape May.....	250 00
		Staten Island.....		
November 25, 1903.	The Grasselli Chemical Company....	Sound & Piles Creek.....	Union.....	5,000 00
November 25, 1903.	E. P. Backus Lumber Co.....	Passaic River.....	Essex.....	200 00
November 25, 1903.	American Can Company.....	Great Mantua Creek.....	Gloucester.....	125 00
November 25, 1903.	L. Feuchtwanger & Co.....	Hackensack River.....	Bergen.....	1,402 50
November 25, 1903.	Edward C. and Watson T. Sooy.....	Mullica River.....	Atlantic.....	1,000 00
November 25, 1903.	Seaside Club.....	Sandy Hook Bay.....	Monmouth.....	25 00
January 7, 1904.	The American Dredging Company....	Delaware River.....	Camden.....	2,000 00
February 25, 1904.	Antonio Loori.....	Mill Creek.....	Hudson.....	10 00
February 25, 1904.	Gottfried Krueger and Wm. Scheerer.	Newark Bay.....	Essex.....	1,910 00
February 25, 1904.	Gottfried Krueger and Wm. Scheerer.	Newark Bay.....	Essex.....	1,560 00
February 25, 1904.	Consolidated Traction Company.....	Passaic River.....	Essex.....	4,640 00
February 25, 1904.	Thomas Devlin Manufacturing Co....	Delaware River.....	Burlington.....	900 00
March 31, 1904.	Raymond Hoagland.....	Shrewsbury River.....	Monmouth.....	492 00
March 31, 1904.	Henry H. Ottens.....	Atlantic Ocean.....	Cape May.....	337 50
March 31, 1904.	Charles Mace, Trustee.....	Hereford Inlet.....	Cape May.....	1,000 00
March 31, 1904.	Jesse B. Thompson.....	Atlantic Ocean.....	Atlantic.....	1 500 00
March 31, 1904.	Jennie T. Stemmler.....	Atlantic Ocean.....	Ocean.....	500 00
April 14, 1904.	T. C. E. Blanchard (re-issue of Grant of March 30, 1899.....)	Navesink or North Shrewsbury River.....	Monmouth.....	Nominal.
April 14, 1904.	Henry H. Ottens.....	Hereford Inlet.....	Atlantic.....	600 00
April 14, 1904.	Water Front Improvement Company..	Hudson River.....	Bergen.....	10,865 40
April 28, 1904.	North Jersey Street Railway Company	Hackensack River.....	Hudson.....	1,382 80
May 26, 1904.	George F. Gantz.....	Newark Bay.....	Hudson.....	1,403 60

May 26, 1904.	S. Bartram Richards.....	Atlantic Ocean.....	Atlantic.....	1,500 00
May 26, 1904.	Israel G. Adams.....	Atlantic Ocean.....	Cape May.....	200 00
May 26, 1904.	North Wildwood Land Company.....	Atlantic Ocean.....	Cape May.....	625 00
		Sandy Hook Bay or		
May 26, 1904.	Borough of Highlands.....	Shrewsbury River.....	Monmouth.....	40 00
May 26, 1904.	Ocean City Association.....	Beach Thoroughfare.....	Cape May.....	529 50
June 30, 1904.	Institute Boat Club.....	Passaic River.....	Essex.....	225 00
June 30, 1904.	Colby & Co. (Inc.).....	Hudson River.....	Bergen.....	1 00
		Sandy Hook Bay or		
June 30, 1904.	Henry Frazer.....	Shrewsbury River.....	Monmouth.....	75 00
July 28, 1904.	United States Cast Iron Pipe & Foundry Company.....	Delaware River.....	Burlington.....	1,940 00
September 14, 1904.	Augustus H. Sickler.....	Atlantic Ocean.....	Cape May.....	150 00
		Sandy Hook Bay or		
September 14, 1904.	Emma Schmitt.....	Shrewsbury River.....	Monmouth.....	50 00
September 14, 1904.	Mads Nielson.....	Raritan River.....	Middlesex.....	1,500 00
September 14, 1904.	Joseph B. Vanderslice.....	Grassy Sound.....	Cape May.....	45 00
September 14, 1904.	William Pinker.....	Grassy Sound.....	Cape May.....	17 60
September 14, 1904.	Charles Greaves.....	Grassy Sound.....	Cape May.....	16 20
September 14, 1904.	James H. Thomas.....	Grassy Sound.....	Cape May.....	14 40
September 14, 1904.	Edward S. Culver.....	Grassy Sound.....	Cape May.....	25 52
September 14, 1904.	Eli Barnett.....	Grassy Sound.....	Cape May.....	20 70
September 14, 1904.	Otto Binder.....	Grassy Sound.....	Cape May.....	19 80
September 14, 1904.	Robert E. Hand.....	Grassy Sound.....	Cape May.....	47 16
September 14, 1904.	H. Allhiser.....	Grassy Sound.....	Cape May.....	11 40
September 14, 1904.	A. H. Stewart.....	Grassy Sound.....	Cape May.....	43 20
September 14, 1904.	Frederick Meyer.....	Grassy Sound.....	Cape May.....	25 82
September 14, 1904.	John Reese.....	Grassy Sound.....	Cape May.....	32 00
September 14, 1904.	William Maltmann.....	Grassy Sound.....	Cape May.....	23 73
September 14, 1904.	Frederick Sutton.....	Grassy Sound.....	Cape May.....	30 24
September 14, 1904.	John N. Reeve.....	Grassy Sound.....	Cape May.....	24 92
September 28, 1904.	Consumers' Ammonia Co.....	Delaware River.....	Camden.....	156 00
September 28, 1904.	Camden Wool Stock Co.....	Delaware River.....	Camden.....	144 00
September 28, 1904.	Marjorie R. Milbank.....	Shrewsbury River.....	Monmouth.....	150 00
	Total.....			\$46,789 99

LEASES.

DATE.	TO WHOM MADE.	LOCALITY.	COUNTY.	PRINCIPAL SUM
November 25, 1903.	Philip P. and Latimer R. Baker and Henry B. Bradford.....	Atlantic Ocean.....	Cape May.....	\$1,618 75
June 30, 1904.	Wildwood Beach Improvement Co.....	Atlantic Ocean.....	Cape May.....	918 00
September 14, 1904.	Albert C. Courter & Co.....	Passaic River.....	Essex	4,929 00
	Total.....			\$7,465 75

LICENSES.

DATE.	TO WHOM MADE.	LOCALITY.	COUNTY.	AMOUNT.
March 31, 1904.	New Jersey Shore Line Railroad Co..	Hudson River.....	Hudson and Bergen.	\$400 00
May 12, 1904.	City of Ventnor City.....	Atlantic Ocean.....	Atlantic	100 00
September 14, 1904.	Edgewater & Fort Lee Railroad Company, (extension of license of May 28, 1902.....)	Hudson River.....	Bergen	Nominal.
September 28, 1904.	New York Bay Railroad Company.....	New York Bay.....	Hudson	Nominal.
	Total.....			\$500 00

CONVERSIONS.

DATE.	TO WHOM MADE.	LOCALITY.	COUNTY.	AMOUNT.
October 29, 1903.	George F. Gantz, (conversion of lease to Brown and Van Anglen of Aug. 1, 1889).....	Newark Bay.....	Hudson	\$ 1,640 15
May 26, 1904.	Edgar K. Richards and others (conversion of lease to Mary K. Richards and others of Feb. 14, 1887).....	Hudson River.....	Hudson	26,535 75
June 30, 1904.	Delaware River Ferry Company of New Jersey (conversion of lease to Anna K. Smith and others of Sept. 6, 1879).....	Delaware River.....	Camden	854 00
July 28, 1904.	Lillie R. III (conversion of part of lease to Westray's Point L. & Impt. Co. of Jan. 3, 1889).....	Toms River.....	Ocean	51 63
	Total.....			\$29,081 53

SUMMARY.

Grants	\$46,789 99
Leases	7,465 75
Licenses	500 00
Conversions	29,081 53
Rentals on leases.....	44,091 63
Total.....	\$127,928 90

The amount of business done by the Commission during the past fiscal year is sufficiently large in amount to show a healthy activity in the demand for water front property of the State, and indicates a gratifying commercial development of the State.

In the report of last year will be found a complete statement of the grants, leases and licenses made by the Riparian Commission from the beginning of its operations in 1869 to October 31, 1903. This statement gives the dates of the conveyances, the waters on which the lands are situated, the counties, and the amount of the consideration paid or secured to be paid. The statement covers some sixty pages of the report, and is not printed in the report of this year, but it is referred to here as furnishing information to searchers or those interested in the title to lands under water. The report of the past year contains only the grants, leases and licenses made during the year, and brings the record down to October 31, 1904.

Copies of the report of 1903 may be obtained from the Secretary of the Commission.

DISPOSITION OF THE STATE'S LANDS.

It is estimated that there is within the State of New Jersey lands under water the value of which, at the present rates asked by the State, amounts to over \$20,000,000, and while the more important waterways of the State are being rapidly taken

enterprises that are attracted by the nearness to the cities of New York and Philadelphia, and by the availability of the waterways and the proximity of the great lines of railroads, there are unlimited extents of water front in close connection with the larger cities of the State, also having these same railroad facilities which offer unexcelled attractions for the location of industries and the building of dwellings for operatives, the establishment of schools, churches, and all the adjuncts of a community that is so rapidly increasing the population and wealth of the State.

ENCROACHMENTS ON LANDS OF THE STATE.

Very few cases now arise in which the title of the State to lands under water is questioned, and very few cases of trespass or encroachment are now attempted. The fact that the construction of docks or the occupation of the State's lands without a grant from the State gives only a temporary use and benefit, and that no transfer of riparian lands is now possible without the examination of the title by the title companies, disclosing the question of riparian rights, must deter anyone from proceeding to improve or occupy without first securing the riparian rights.

A case in which the validity of certain rights claimed to have been granted by an ancient legislative statute is now being litigated by the Attorney General, and the preparation of the maps and securing of such evidence to establish the State's contention as comes within the province of the Surveyor is now being prosecuted by your Engineer, under the direction of the Attorney General, Honorable Robert H. McCarter, and Assistant Attorney General Mr. John L. Swayze. The determination of this case will be of great interest.

CHANGES IN EXTERIOR LINES.

During the past year the United States Government has decided against the extension asked for by the New York Dock

Department on the Hudson River, between Canal Street and West Thirtieth Street, in the City of New York, and the extension asked for by the Riparian Commission on the Hudson River at Castle Point, Hoboken, and on the Kill von Kull at Constable's Hook; but none of the reasons advanced by the Government engineers against these extensions apply in the case of Newark Bay, and it is earnestly hoped that in the near future the extensions needed and actually indispensable to the improvement and development of the miles of shore front of Newark Bay will be granted by the United States Government.

SHOALS OR SUBMERGED ISLANDS.

Under the act of March 27th, 1874, and also under the act of February 10th, 1891, the Riparian Commissioners have the authority to fix lines around, or in front of, all islands, reefs and shoals situated in the tidal waters of this State, and to grant or lease said lands to applicants therefor.

ELLIS ISLAND.

Under the act of 1891, the United States Government, on August 19th, 1904, made application to the Riparian Commission of the State of New Jersey for certain lands under water in New York Bay, adjacent to Ellis Island. Under an appropriation by Congress in 1902, nearly a million dollars were appropriated by the Government, and plans were prepared for filling in about three and one-half acres adjacent to Ellis Island, and the erection of buildings to be used in connection with the immigrant landing at Ellis Island.

The above application of the United States Government recognizes the rights of the State in these lands, and sets at rest forever the question of the State's title, and the right of the State to fix and receive consideration therefor.

GRASSY SOUND.

Under the ace of March 27th, 1874, a number of grants have been made of portions of an island in Cape May County, which had been taken up by different parties by simply squatting upon the same and erecting dwelling houses. Disputes arising as to the ownership of these several parcels of land, the squatters became aware that they had no actual title, and so came to the Riparian Commission to secure one.

Exterior lines for improvements were fixed around this island and grants were made to the individuals, thus securing to them absolute title of the lands they had pre-empted.

There is an enormous area of this same class of submerged marsh islands in the southern waters of the State, and the case in question will furnish a precedent, and give information to all those interested in such lands.

BOUNDARY LINE REPAIRS.

The Riparian Commissioners, under the act of the Legislature, approved April 4th, 1891, are entrusted with the examination and care of the monuments marking the boundary line of the State.

The work of restoring the monuments, found to be necessary on the last triennial examination, in 1902, has been completed during the year.

At Tappan, the Old Milestone, No. 2, has been replaced by a new granite monument twelve inches square, dressed down for eighteen inches, and set in a mass of concrete four feet square. The letters N.Y.—N.J. in V. sunken letters are cut in the top of the stone.

Also at Tappan, on the Northern Railroad of New Jersey, Monument No. 6, which was a small, insecure, stone, has been replaced by a granite monument set in a similar manner to Milestone No. 2.

Also at Pearl River, on the New Jersey & New York Railroad,

Monument No. 21, which had been broken off by the raising and reballasting of the track, was replaced by a granite monument set in a similar manner to Milestone No. 2.

Also at St. George, Staten Island, on the range of Monument No. 56 and the Standard Oil Company's chimney, a new monument has been set on the north sidewalk of Jay Street, about fifty feet east of the intersection of Jay Street and Stuyvesant Place.

RARITAN BAY.

The most important work on the boundary line during the past year has been the erection of a steel Range Beacon on the range through the Romer Shoal Light House on Romer Shoal, and the Permanent Monument in Raritan Bay, near the mouth of Cheesequake's Creek. That part of the boundary line of the State in Raritan Bay, between Romer Shoal Light and the Permanent Monument, runs through the valuable oyster and clam beds of Raritan Bay, and, in 1887, the Boundary Line Commission, of which the late Hon. Robert C. Bacot, formerly Engineer of the Board, was Chairman, defined this line, and not only marked it by placing the monolith cased in iron and surmounted by a spindle and cage at the north end of the line (the Romer Shoal Light House marking the direction nearer the south end), but placed buoys every mile. Copies of the report of the Boundary Line Commission may be obtained from the Secretary of the Riparian Commission. This at once ended all the disputes between the oystermen as to which State they were operating in. Before this time much friction had taken place, and even bloodshed, because of a lack of knowledge of the exact location of the boundary line, but all this disappeared while the buoys remained in place; unfortunately, however, the heavy winter ice, gathering around the buoys caused them to raise the anchors with the rising of the tide, and then to drift out of place and be lost, and nothing remained to mark the boundary line but the range between the Permanent Monument, about two miles off the shore at Morgan, and the Romer Shoal Light, about eleven miles seaward from the Per-

manent Monument, and once between the above range monuments, there was no way for the observer to determine his position with relation to the boundary line.

Last year, your Engineer, after consultation with the New York Engineer, advised the erection of a steel beacon about one hundred and thirty feet back of the face of the bluff on the south shore of Raritan Bay at Morgan, over the "Morgan Range Monument," as shown on the map accompanying the report.

It will be seen, by consulting the map which is appended to this report, that the observer or operator out on Raritan Bay, when he is shoreward of the Permanent Monument, can place himself on the boundary line by getting in range with the monument and Romer Shoal Light, and when he is beyond the Permanent Monument he can place himself on the boundary line by getting in range with the Permanent Monument and the Range Beacon recently erected on the shore under the direction of this Commission; and as these two objects can be seen as far as the oyster beds extend, those interested can place themselves on the boundary line and determine at once by inspection in which State they are operating.

The beacon is a steel tripod, one face being perpendicular, having a width on the base of twenty feet and a height of about sixty feet from the surface to the top, with a front leg or brace with a base of twelve feet. Each leg is set on a base of concrete, and at the top an iron plate, ten feet wide and twenty-five feet high, faces the range in Raritan Bay.

In the Supplementary Appropriation Act of April 5th, 1904, an appropriation of \$1,000 was made to cover one-half the cost of the replacement of monuments and the construction of the Morgan Range Beacon (half being borne by the State of New York), of which \$682.50 was used, and the balance, \$317.50, being returned to the State Treasury.

MEETINGS OF THE BOARD.

The Attorney General, Honorable Robert H. McCarter, or the Assistant Attorney General, Mr. John L. Swayze, who advise

the Board on the legal questions arising, attend all of the meetings of the Board, as well as supervise and pass upon the drawing of all conveyances, and it has been found to greatly facilitate the work of the Board, as well as to have been very satisfactory and helpful to the applicants in having a determination at once by the Attorney General's office of the legal questions arising.

The meetings of the Board continue to be attended by the applicants and their attorneys, and examinations of the localities, when rights are applied for, are made by the Commissioners.

Respectfully submitted,

JOHN C. PAYNE,

Secretary and Engineer.

Dated October 31st, 1904.

Financial Statement.

Of Amounts Received and Paid by the Riparian Commissioners for Salaries of Employees and Office Expenses of the Commission for the Year Ending October 31st, 1904.

1903.	DR.	
November. To amount received from State Treasurer.....		\$637 89
December. To amount received from State Treasurer.....		527 87
1904.		
January. To amount received from State Treasurer.....		525 17
February. To amount received from State Treasurer.....		525 16
March. To amount received from State Treasurer.....		541 40
April. To amount received from State Treasurer.....		398 70
May. To amount received from State Treasurer.....		458 70
June. To amount received from State Treasurer.....		405 57
July. To amount received from State Treasurer.....		407 13
August. To amount received from State Treasurer.....		432 30
September. To amount received from State Treasurer.....		400 60
October. To amount received from State Treasurer.....		662 49
		\$5,922 98

1904.	CR.	
By amount paid for salary of Secretary and Engineer.....		\$3,500 00
By amount paid for salary of General Counsel.....		625 00
By rent of offices for 1904.....		780 00
By maps, stationery and office expenses.....		1,017 98
		\$5,922 98

APPENDIX.

(25)

Appendix.

DIRECTIONS FOR APPLICANTS TO THE RIPARIAN COMMISSION OF THE STATE OF NEW JERSEY FOR LANDS UNDER WATER.

Applicants for lands of the State under tide water will observe the following directions:

First.—Furnish a description by metes and bounds of the lands owned by the applicant in front of which the lands applied for lie, accompanied by a map and survey of the same made by a competent surveyor, showing the exact frontage of said land on the shore at mean high water mark, and the names of the owners of the adjacent lands.

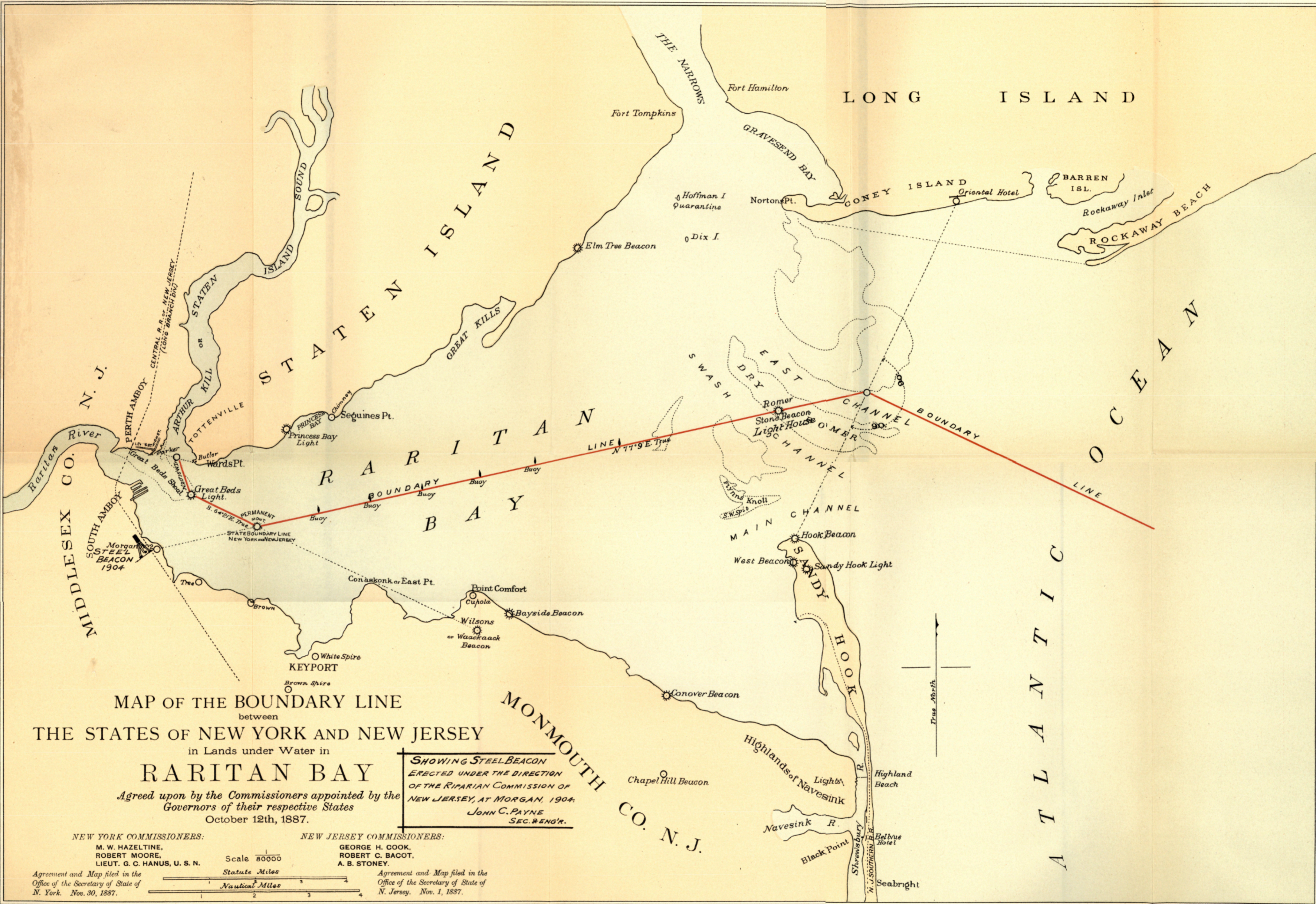
Second.—State whether the lands under water applied for are now or are hereafter to be used for commercial or other purposes, and, if so, what; whether they have been improved in whole or in part, or are authorized to be improved under any grant or license protected by the provisions of the supplement of the Riparian Act of March 31st, 1869; also, if any oyster land, fishery or privilege therefor is embraced within the limits of the land under water applied for.

Third.—State whether a grant in fee simple, or a lease in perpetuity, with privilege to convert the same into a fee, is desired.

(NOTE:—For a grant in fee simple, the principal sum is required to be paid. For a lease, a rental at the rate of seven per cent. per annum on the principal sum is payable semi-annually, in advance to the State Treasurer)

Fourth.—An abstract of the title to the land owned by the applicant, prepared by a practitioner of the law of this State, or by the Clerk of the County in which the land is situated, must be furnished with the application before the same will be considered by the Commissioners.

Blank forms for application, and all further information required, will be furnished by John C. Payne, Secretary of the Commission; office, Commercial Trust Building, Jersey City, N. J.



MAP OF THE BOUNDARY LINE
between
THE STATES OF NEW YORK AND NEW JERSEY
in Lands under Water in

RARITAN BAY

Agreed upon by the Commissioners appointed by the
Governors of their respective States
October 12th, 1887.

SHOWING STEEL BEACON
ERECTED UNDER THE DIRECTION
OF THE RIPARIAN COMMISSION OF
NEW JERSEY, AT MORGAN, 1904.
JOHN C. PAYNE
SEC. & ENGR.

NEW YORK COMMISSIONERS:
M. W. HAZELTINE,
ROBERT MOORE,
LIEUT. G. C. HANUS, U. S. N.

NEW JERSEY COMMISSIONERS:
GEORGE H. COOK,
ROBERT C. BACOT,
A. B. STONEY.

Scale 80000

Statute Miles

Nautical Miles

Agreement and Map filed in the
Office of the Secretary of State of
N. York. Nov. 30, 1887.

Agreement and Map filed in the
Office of the Secretary of State of
N. Jersey. Nov. 1, 1887.