



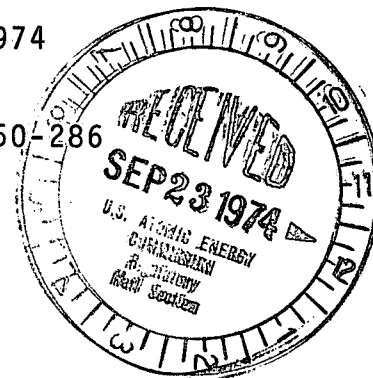
ENVIRONMENTAL PROTECTION ADMINISTRATION
DEPARTMENT OF WATER RESOURCES
MUNICIPAL BUILDING, NEW YORK, N. Y. 10007
Telephone: 566-3340, 3341

CHARLES SAMOWITZ, P.E.
Commissioner

September 20, 1974

Mr. George W. Knighton, Chief
Environmental Projects Branch No. 1
Directorate of Licensing
United States Atomic Energy
Commission
Washington, D. C. 20545

Re: Docket No. 50-286



Dear Mr. Knighton:

As requested in your letter of August 20, we are forwarding the New York City Harbor Survey printouts for the years 1967 and 1973. These include the stations you listed and the parameters you require.

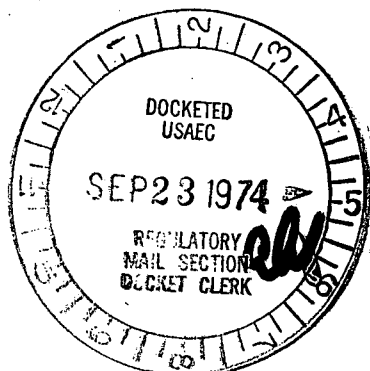
We are also enclosing a map with the locations of the stations and their description regarding latitude and longitude.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Norman Nash".

NORMAN NASH, P.E.
Assistant Commissioner
Research Development and Training
Department of Water Resources

Enc.



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SAMPLING STATIONS

LOWER EAST RIVER

- E-1 Pier 10
- E-2 23rd Street
- E-3 42nd Street
- E-4 Hell Gate

UPPER EAST RIVER

- E-5 Barretto Point
- E-6 Flushing Bay
- E-7 Whitestone
- E-8 Throgs Neck

LONG ISLAND SOUND

- E-9 Stepping Stones
- E-10 Hart Island
- E-11 Sands Point
- E-12 Hempstead Harbor

HARLEM RIVER

- H-1 Spuyten Duyvil
- H-2 Morris Heights
- H-3 155th Street
- H-4 Willis Ave
- H-5 106th Street

JAMAICA BAY

- J-1 Rockaway Inlet
- J-2 Mill Basin
- J-3 Canarsie
- J-4 Fresh Creek
- J-5 LIRR Trestle
- J-6 Arverne

KILL VAN KULL

- K-1 B&O Coal Dock

NEWARK BAY

- K-2 Shooters Island

ARTHUR KILL

- K-3 R.R. Bridge
- K-4 Fresh Kill
- K-5 Tottenville

LOWER NEW YORK BAY

- K-6 Orchard Light

HUDSON RIVER

- N-1 Mt St Vincent
- N-2 Spuyten Duyvil
- N-3 155th Street
- N-4 42nd Street
- N-5 Pier A-The Battery

UPPER NEW YORK BAY

- N-6 Barbouy I-G
- N-7 Robbins Reef

THE NARROWS

- N-8 The Narrows



ATLANTIC OCEAN

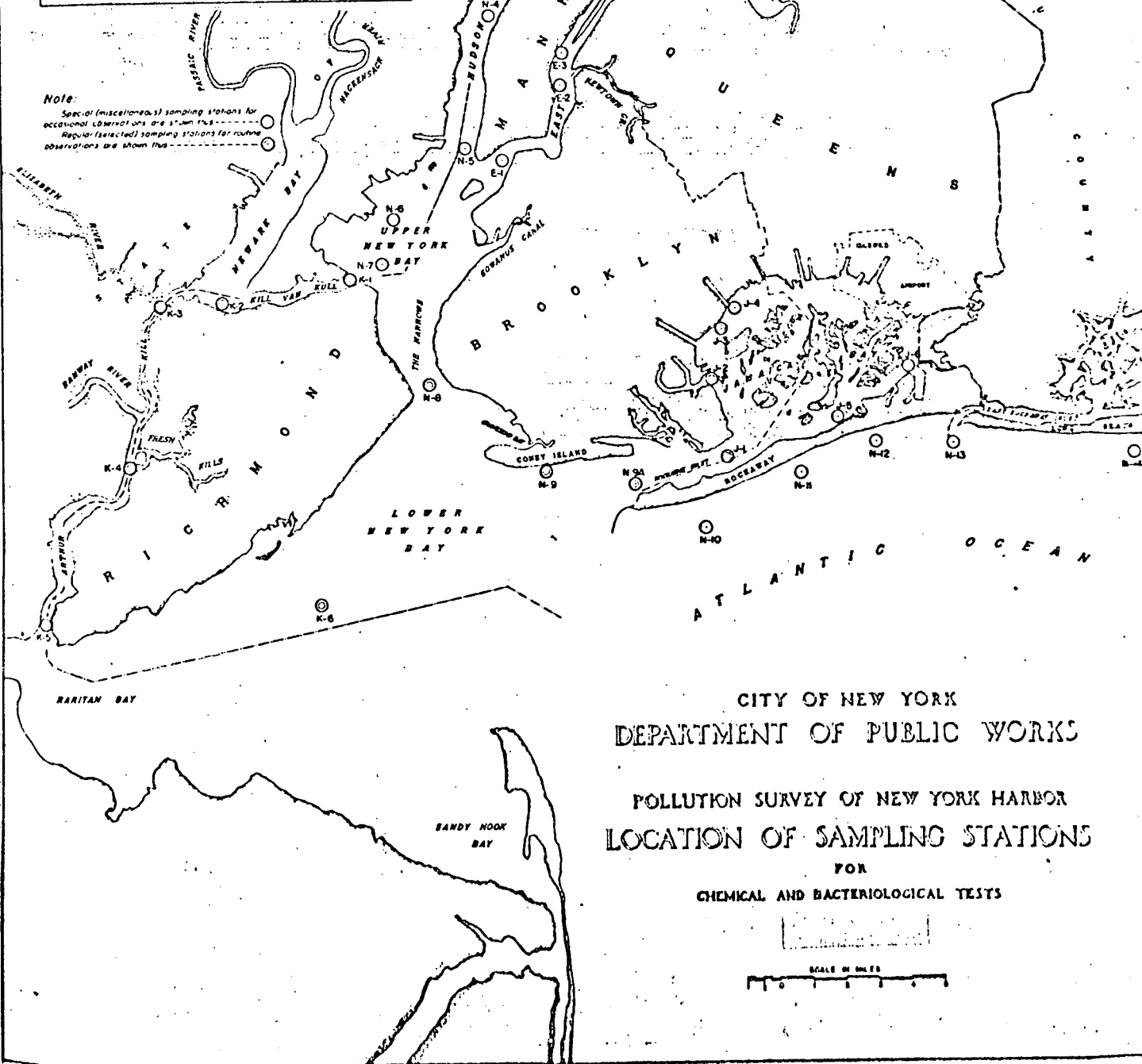
- N-9 Steeplechase, Coney Island
- N-10 Rockaway Point
- N-11 Fort Tilden
- N-12 Hammels
- N-13 East Rockaway Inlet
- N-14 Long Beach

ROCKAWAY INLET

- N-9A Coney Island Outfall

Note:

Special (miscellaneous) sampling stations for occasional observations are shown thus: 
Regular (selected) sampling stations for routine observations are shown thus: 



CITY OF NEW YORK
DEPARTMENT OF PUBLIC WORKS
POLLUTION SURVEY OF NEW YORK HARBOR
LOCATION OF SAMPLING STATIONS
FOR
CHEMICAL AND BACTERIOLOGICAL TESTS

SCALE IN MILES
0 1 2 3 4 5

LOCATION OF SAMPLING POINTS

Hudson River

- N-1 Mt. St. Vincent One-fourth of the distance from the New York shore at Mt. St. Vincent Academy to the New Jersey shore. Lat. $40^{\circ} 54.9'$, Long. $73^{\circ} 54.9'$
- N-2 Spuyten Duyvil One-fourth of the distance from the center pier of the New York Central Railroad bridge over Spuyten Duyvil Creek to the New Jersey shore. Lat. $40^{\circ} 52.7'$, Long. $73^{\circ} 55.7'$
- N-3 155th Street One-fourth of the distance from the Manhattan shore at West 155th Street to the New Jersey shore. Lat. $40^{\circ} 50.1'$, Long. $73^{\circ} 50.1'$
- N-3A 72nd Street One-third of the distance from the Manhattan shore at West 72nd Street to the New Jersey shore. Lat. $40^{\circ} 46.9'$, Long. $73^{\circ} 59.5'$
- N-3B 125th Street One-third of the distance from the Manhattan shore at West 125th Street to the New Jersey shore. Lat. $40^{\circ} 49.1'$, Long. $73^{\circ} 57.9'$
- N-4 42nd Street One-third of the distance from the Manhattan shore at West 42nd Street to the New Jersey shore. Lat. $40^{\circ} 45.9'$, Long. $74^{\circ} 00.3'$
- N-5 Pier A One-third of the distance from Pier A, Manhattan to the Central Railroad of New Jersey ferry slips, Communipaw. Lat. $40^{\circ} 42.2'$, Long. $74^{\circ} 01.4'$
- N-5B Governors Island North end of Governors Island about 300 feet from the west shore of the island. Lat. $40^{\circ} 01.1'$, Long. $74^{\circ} 01.8'$

Upper New York Bay

- N-6 Bell Buoy 1G As near buoy as safety will permit. Lat. $40^{\circ} 40.2'$, Long. $74^{\circ} 03.7'$
- N-7 Robbins Reef Over the outlets of the Passaic Valley outfall. Lat. $40^{\circ} 39.5'$, Long. $74^{\circ} 38.9'$

The Narrows

- N-8 One-half of the distance from Fort Lafayette to the Fort Wadsworth dock. Lat. $40^{\circ} 36.3'$, Long. $74^{\circ} 02.7'$

Lower East River

- E-1 Pier 10 Midstream between Pier 10, Manhattan and Pier 10, Brooklyn.
Lat. 40° 42.1', Long. 74° 00.4'
- E-2 23rd Street One-third of the distance from the foot of East 23rd Street, Manhattan to the Brooklyn shore. Lat. 40° 44.1', Long. 73° 58.3'
- E-3 42nd Street One-fourth of the distance from the foot of East 42nd Street, Manhattan to the Queens shore (middle of west channel).
Lat. 40° 44.9', Long. 73° 58.0'
- E-4 Hell Gate Midstream under New York Connecting Railroad Bridge. Lat. 40° 46.9', Long. 73° 55.4'
- N-5A Buttermilk Channel North end of Governors Island about 300 feet from the east shore of the island in Buttermilk Channel.
Lat. 40° 40.9', Long. 74° 01.4'

Upper East River

- E-5 Barretto Point One-third of the distance from Barretto Point to the dock on Riker's Island.
Lat. 40° 48.1', Long. 73° 53.1'
- E-6 Flushing Bay 500 feet due west from the College Point ferry slip. Lat. 40° 47.4', Long. 73° 53.1'
- E-7 Whitestone One-third of the distance from Whitestone Point to the Bronx shore.
Lat. 40° 47.5', Long. 73° 50.3'
- E-8 Throgs Neck Midway between the two forts at the narrowest point. Lat. 40° 48.1', Long. 73° 47.3'

Long Island Sound

- E-9 Stepping Stones One-half mile north of Stepping Stones Lighthouse. lat. 40° 09.4', Long. 73° 46.8'
- E-10 Hart Island 200 feet west of the southerly tip of Hart Island in mid-channel.
Lat. 40° 50.5', Long. 73° 45.9'

Harlem River

- H-1 Spuyten Duyvil Midstream and sufficiently east of the New York Central Railroad drawbridge to avoid danger from westerly currents.
- H-2 Morris Heights Midstream opposite the Consolidated Shipbuilding yard.
Lat. 40° 52.7', Long 73° 55.4'
- H-3 155th Street Midstream and immediately north or south of the center pier of the drawbridge, depending on the current.
Lat. 40° 49.6', Long. 73° 56.1'
- H-4 Willis Avenue Midstream and immediately north or south of the center pier of the drawbridge, depending on the current.
Lat. 40° 48.2', Long. 73° 55.8'
- H-5 106th Street Midstream opposite the foot of East 106th Street, Manhattan.
Lat. 40° 47.3', Long. 73° 56.2'

Lower New York Bay

- K-6 Orchard Light 500 feet from Old Orchard Light in line with the beacon at Old Orchard Shoal.
Lat. 40° 30.6', Long. 74° 05.9'
- N-9 Steeplechase Pier 200 feet south of the Steeplechase pier at Coney Island.
Lat. 40° 34.2', Long. 73° 59.0'
- N-16 Sl-Fl-W Gong About 1.7 miles south of Rockaway Point.
Lat. 40° 32.3', Long. 73° 56.9'
- K-5A Raritan River A point about 2000 feet south of Great Beds Light buoy No. 4 (flashing 2 $\frac{1}{2}$ sec.) in line with the Raritan River cut-off buoy and Flashing Red buoy No. 2.
Lat. 40° 28.9', Long. 74° 15.2'
- N-8A Norton Point 1/4 mile northeast of Norton Point, near the white nun buoy.
Lat. 40° 35.9', Long. 74° 00.7'

Kill Van Kull

- K-1 B & O Coal Dock One-half of the distance from the B & O Railroad coal dock, New Brighton to the New Jersey shore.
Lat. 40° 39.0', Long. 74° 04.7'
- K-2 Shooter's Island One-half of the distance from the ferry slip on Shooter's Island to the Staten Island shore.
Lat. 40° 08.4', Long. 74° 09.5'

Arthur Kill

- K-3 B & O Railroad Bridge Just north or south of the center pier of the bridge, depending on the current.
Lat. 40° 38.2', Long. 74° 15.2'
- K-4 Fresh Kills One-half of the distance from the chromium works in New Jersey to the southerly mouth of Fresh Kills.
Lat. 40° 34.4', Long. 74° 11.8'
- K-5 Tottenville One-half of the distance from the Tottenville ferry slip at Perth Amboy to the Staten Island shore.
Lat. 40° 30.8', Long. 74° 15.2'

Jamaica Bay

- N-9A Coney Island Outfall As near the outfall structure of the Coney Island plant as safety will permit. Lat. 40° 34.0', Long. 73° 56.0'
- J-1 Rockaway Inlet Under the center of the bridge from Barren Island to Rockaway.
Lat. 40° 34.4', Long. 73° 53.6'
- J-2 Mill Basin At the east end of the channel.
Lat. 40° 37.7', Long. 73° 53.0'
- J-3 Canarsie In the channel 400 feet south of the end of Canarsie pier.
Lat. 40° 37.7', Long. 73° 53.0'
- J-5 Railroad Trestle At the center pier of the bridge over Beach Channel, Hammels.
Lat. 40° 35.8', Long. 73° 48.6'
- J-7 Bergen Basin At the mouth of Bergen Basin, Southeast of the sludge storage tank.
Lat. 40° 38.7', Long. 73° 38.7'

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