

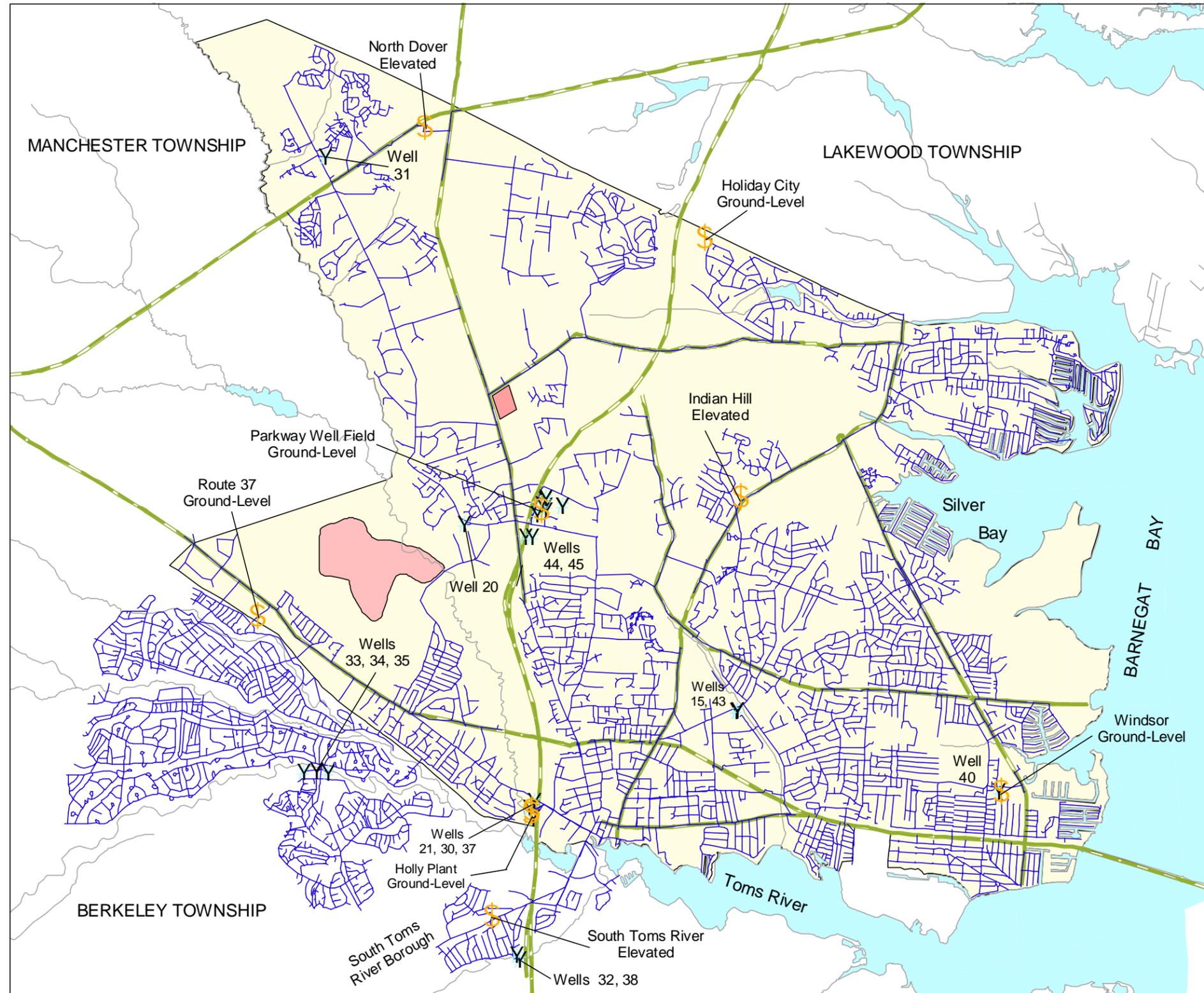
PLATE 1. LOCATION OF AREA OF INVESTIGATION, DOVER TOWNSHIP, OCEAN COUNTY, NEW JERSEY

by Morris L. Maslia, Jason B. Sautner, and Mustafa M. Aral



**Dover Township Area, New Jersey
 Water-Distribution System Model**

Maslia ML, Sautner JB, Aral MM. 2000. Analysis of the 1998 water-distribution system serving the Dover Township area, New Jersey: field-data collection activities and water-distribution system modeling. Atlanta: Agency for Toxic Substances and Disease Registry, June 2000.



EXPLANATION

Y	Municipal Well	Red shaded area	Reich Farm NPL Site
S	Storage Tank	Light red shaded area	Ciba-Geigy NPL Site
Blue line	Water Pipeline	Yellow shaded area	Dover Township
Green line	Major Road	Light blue shaded area	Water Body
Grey line	Hydrography		

Note: Water pipelines range in diameter from 2 inches to 16 inches

0.5 0 0.5 1 1.5 2 2.5 Miles

N

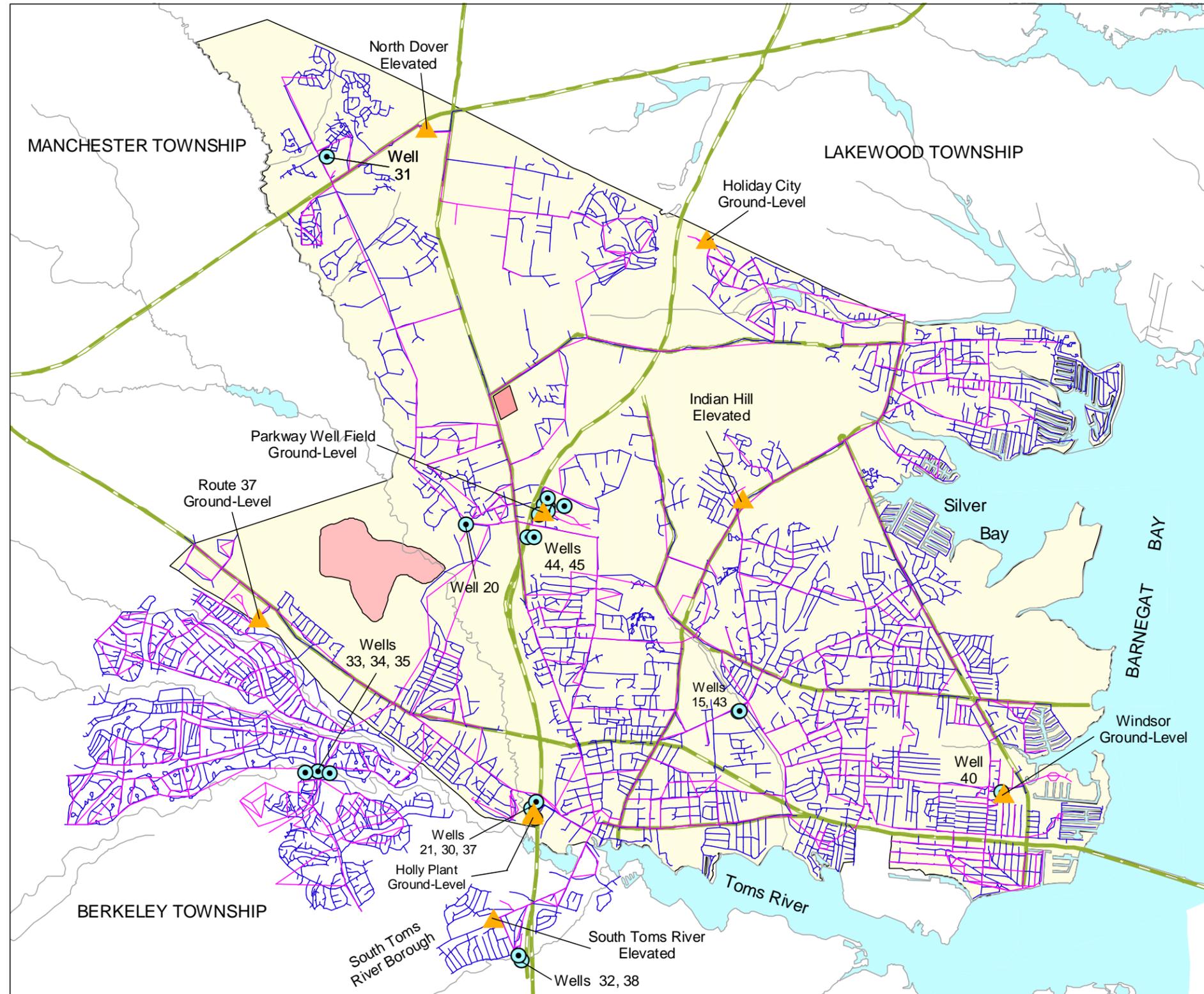
PLATE 2. WATER-DISTRIBUTION SYSTEM SERVING THE DOVER TOWNSHIP AREA, NEW JERSEY, 1998

By Morris L. Maslia, Jason B. Sautner, and Mustafa M. Aral



**Dover Township Area, New Jersey
 Water-Distribution System Model**

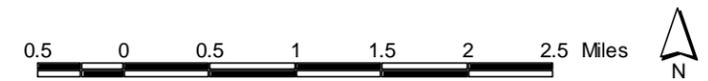
Maslia ML, Sautner JB, Aral MM. 2000. Analysis of the 1998 water-distribution system serving the Dover Township area, New Jersey: field-data collection activities and water-distribution system modeling. Atlanta: Agency for Toxic Substances and Disease Registry, June 2000.



EXPLANATION

- | | |
|-----------------------------|---------------------|
| Municipal Well | Reich Farm NPL Site |
| Storage Tank | Ciba-Geigy NPL Site |
| Water Pipeline, 1998 | Dover Township |
| Equivalent Network Pipeline | Water Body |
| Major Road | |
| Hydrography | |

Notes: Water pipelines (1998) range in diameter from 2 to 16 inches
 Equivalent network pipelines range in diameter from 6 to 16 inches



**Dover Township Area, New Jersey
 Water-Distribution System Model**

Maslia ML, Sautner JB, Aral MM. 2000. Analysis of the 1998 water-distribution system serving the Dover Township area, New Jersey: field-data collection activities and water-distribution system modeling. Atlanta: Agency for Toxic Substances and Disease Registry, June 2000.

PLATE 3. EQUIVALENT HYDRAULIC NETWORK USED FOR INITIAL SIMULATION OF THE WATER-DISTRIBUTION SYSTEM SERVING THE DOVER TOWNSHIP AREA, NEW JERSEY

By Morris L. Maslia, Jason B. Sautner, and Mustafa M. Aral



EXPLANATION

#	Test Hydrant	Reich Farm NPL Site
Y	Municipal Well	Ciba-Geigy NPL Site
\$	Storage Tank	Dover Township
Blue line	Water Pipeline	Water Body
Green line	Major Road	H-15 Test Hydrant Number
Grey line	Hydrography	

0.5 0 0.5 1 1.5 2 2.5 Miles

N

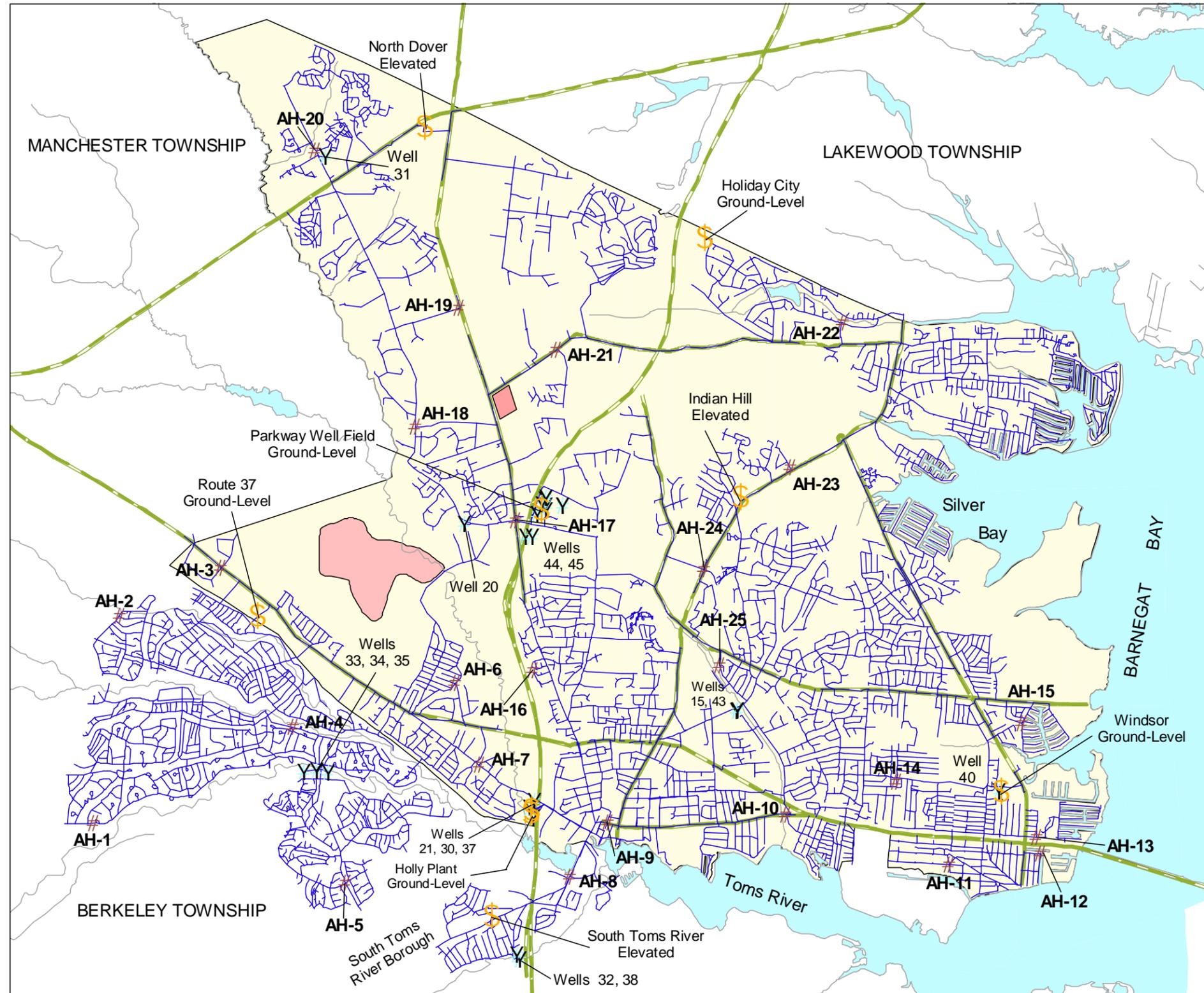
**PLATE 4. LOCATIONS OF PROPOSED TEST HYDRANTS FOR COLLECTING SYSTEM-WIDE PRESSURE DATA
 DOVER TOWNSHIP AREA, NEW JERSEY**

By Morris L. Maslia, Jason B. Sautner, and Mustafa M. Aral



**Dover Township Area, New Jersey
 Water-Distribution System Model**

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EXPLANATION

#	Alternate Test Hydrant	Reich Farm NPL Site
Y	Municipal Well	Ciba-Geigy NPL Site
\$	Storage Tank	Dover Township
Blue line	Water Pipeline	Water Body
Green line	Major Road	AH-15 Alternate Test Hydrant Number
Grey line	Hydrography	

0.5 0 0.5 1 1.5 2 2.5 Miles

N

PLATE 5. LOCATIONS OF PROPOSED ALTERNATE TEST HYDRANTS FOR COLLECTING SYSTEM-WIDE PRESSURE DATA, DOVER TOWNSHIP AREA, NEW JERSEY

By Morris L. Maslia, Jason B. Sautner, and Mustafa M. Aral



**Dover Township Area, New Jersey
 Water-Distribution System Model**

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EXPLANATION

● Test Hydrant	■ Reich Farm NPL Site
⊙ Municipal Well	■ Ciba-Geigy NPL Site
▲ Storage Tank	■ Dover Township
— Water Pipeline	■ Water Body
— Major Road	H-15 Test Hydrant Number
— Hydrography	

0.5 0 0.5 1 1.5 2 2.5 Miles

N

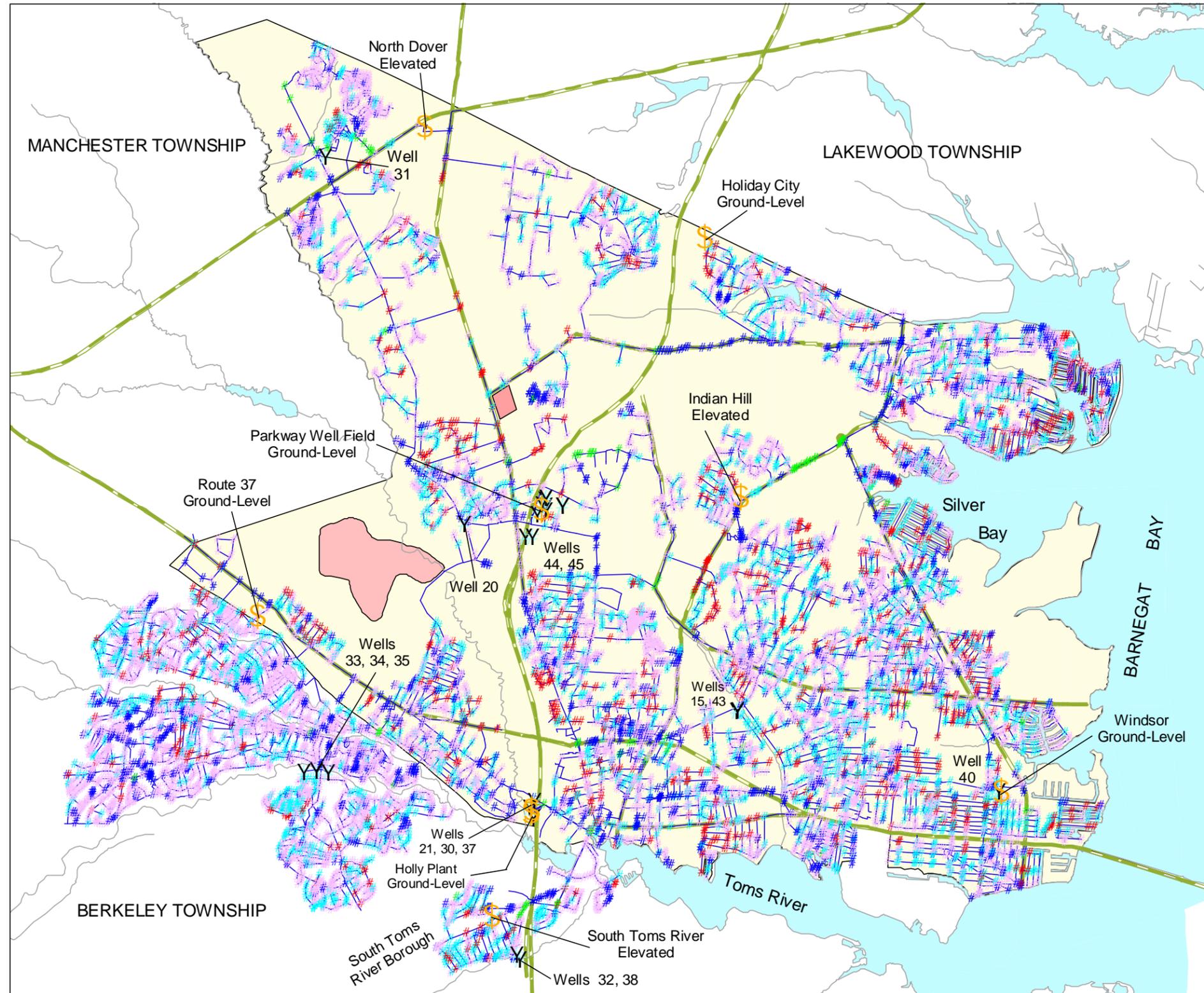
PLATE 6. LOCATIONS OF TEST HYDRANTS USED FOR INSTALLATION OF PRESSURE DATA LOGGERS TO COLLECT SYSTEM-WIDE PRESSURE DATA, DOVER TOWNSHIP AREA, NEW JERSEY

By Morris L. Maslia, Jason B. Sautner, and Mustafa M. Aral



**Dover Township Area, New Jersey
 Water-Distribution System Model**

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EXPLANATION

Y	Municipal Well	Reich Farm NPL Site
\$	Storage Tank	Ciba-Geigy NPL Site
—	Water Pipeline	Dover Township
—	Major Road	Water Body
—	Hydrography	

Consumption, in gallons per minute

#	0.001 - 0.01	#	0.11 - 0.50
#	0.011 - 0.10	#	0.51 - 1.00
#	Greater than 1.00		

0.5 0 0.5 1 1.5 2 2.5 Miles

N

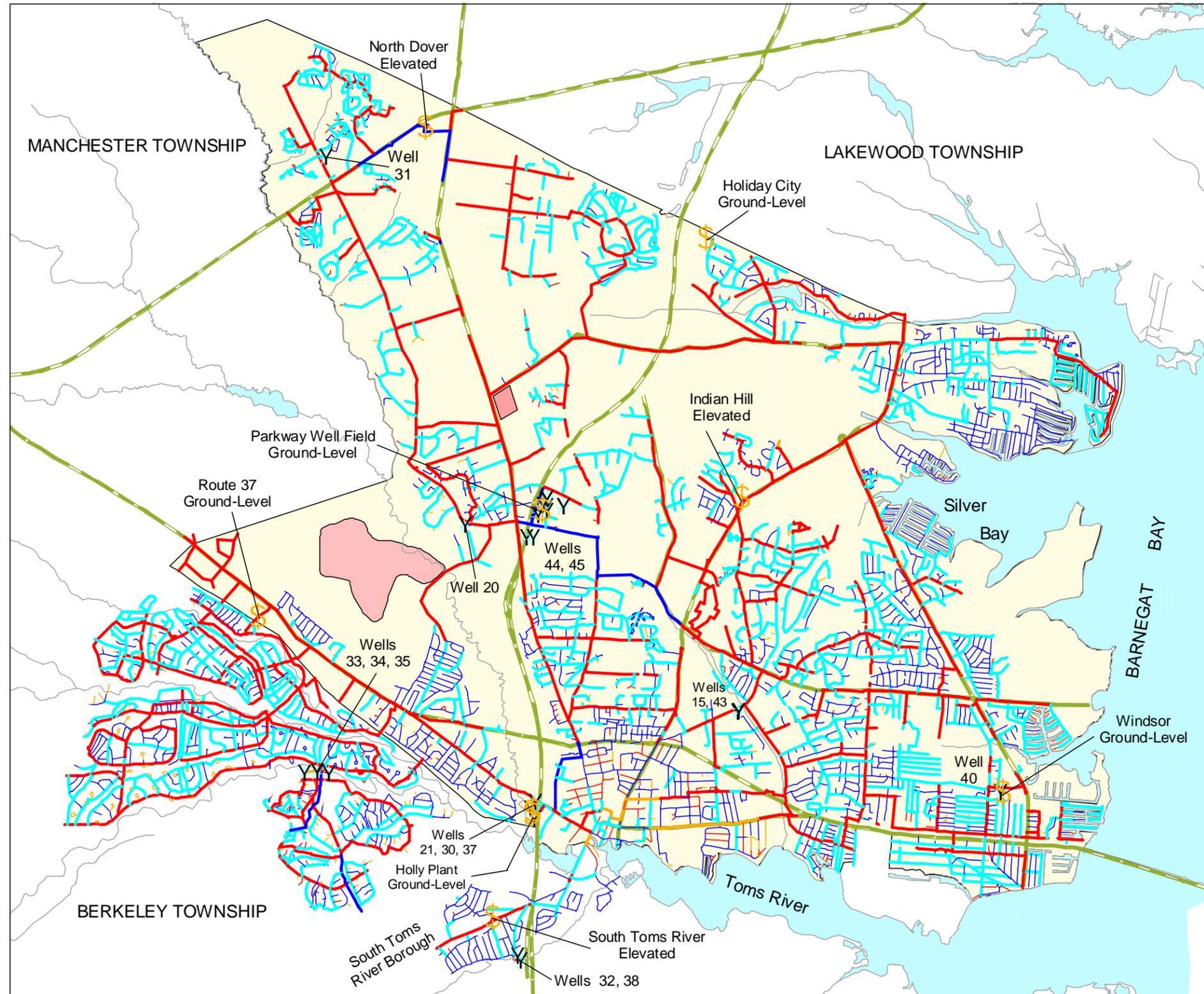
PLATE 7. DISTRIBUTION OF NODAL VALUES OF AVERAGE CONSUMPTION USED TO MODEL THE 1998 WATER-DISTRIBUTION SYSTEM SERVING THE DOVER TOWNSHIP AREA, NEW JERSEY

By Morris L. Maslia, Jason B. Sautner, and Mustafa M. Aral



**Dover Township Area, New Jersey
 Water-Distribution System Model**

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EXPLANATION

Y	Municipal Well	Reich Farm NPL Site
\$	Storage Tank	Ciba-Geigy NPL Site
Major Road Symbol	Major Road	Dover Township
Hydrography Symbol	Hydrography	Water Body

Pipeline diameter, in inches

16	6
12	4
10	2
8	

0.5 0 0.5 1 1.5 2 2.5 Miles

N

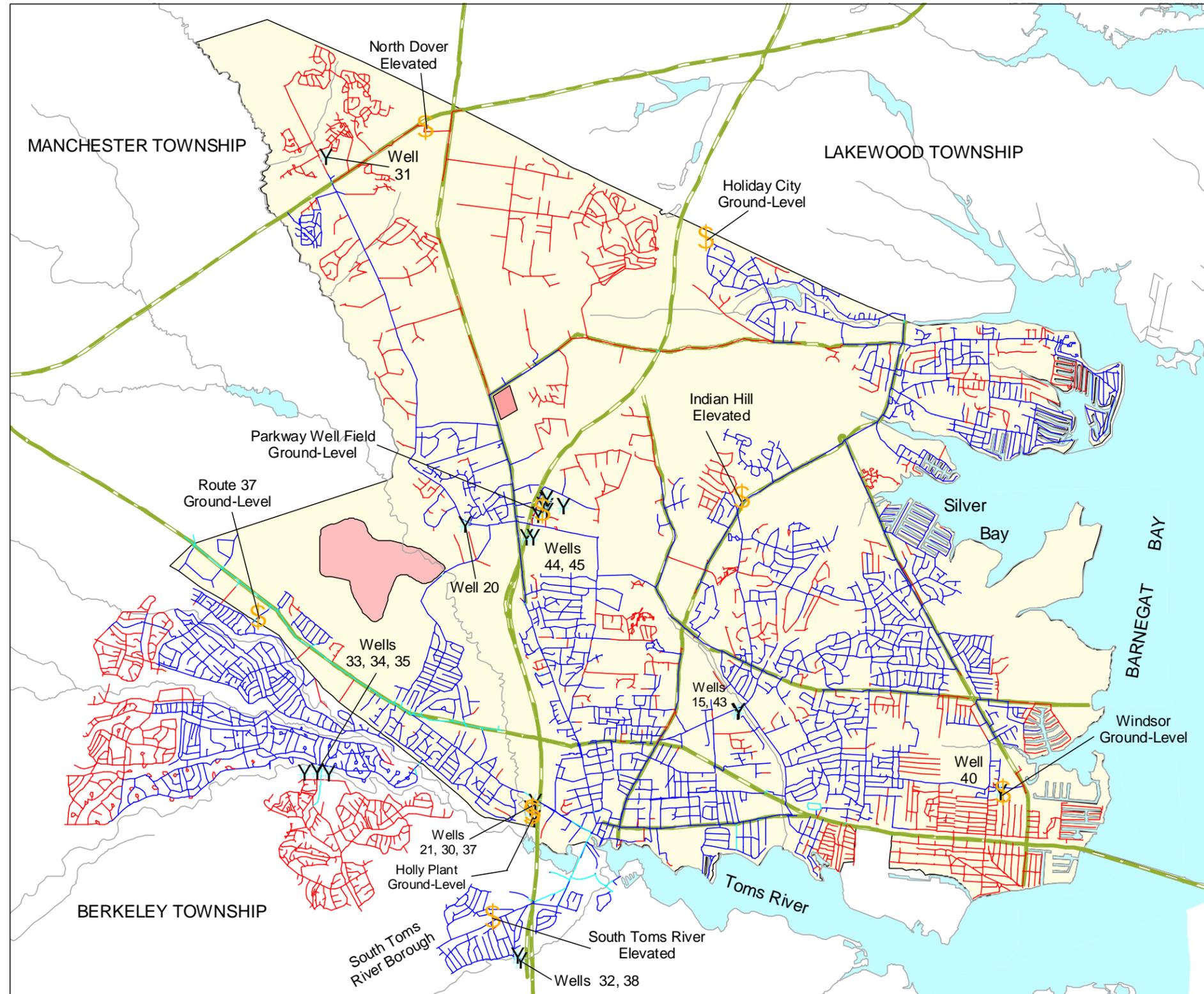
PLATE 8. DISTRIBUTION OF PIPELINE DIAMETERS USED TO MODEL THE 1998 WATER-DISTRIBUTION SYSTEM SERVING THE DOVER TOWNSHIP AREA, NEW JERSEY

By Morris L. Maslia, Jason B. Sautner, and Mustafa M. Aral



**Dover Township Area, New Jersey
 Water-Distribution System Model**

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EXPLANATION

Y	Municipal Well	Red shaded area	Reich Farm NPL Site
\$	Storage Tank	Light red shaded area	Ciba-Geigy NPL Site
Green line	Major Road	Yellow shaded area	Dover Township
Blue line	Hydrography	Light blue shaded area	Water Body

Value of Hazen-Williams "C-factor"

Red line	140
Cyan line	130
Blue line	120

0.5 0 0.5 1 1.5 2 2.5 Miles

N

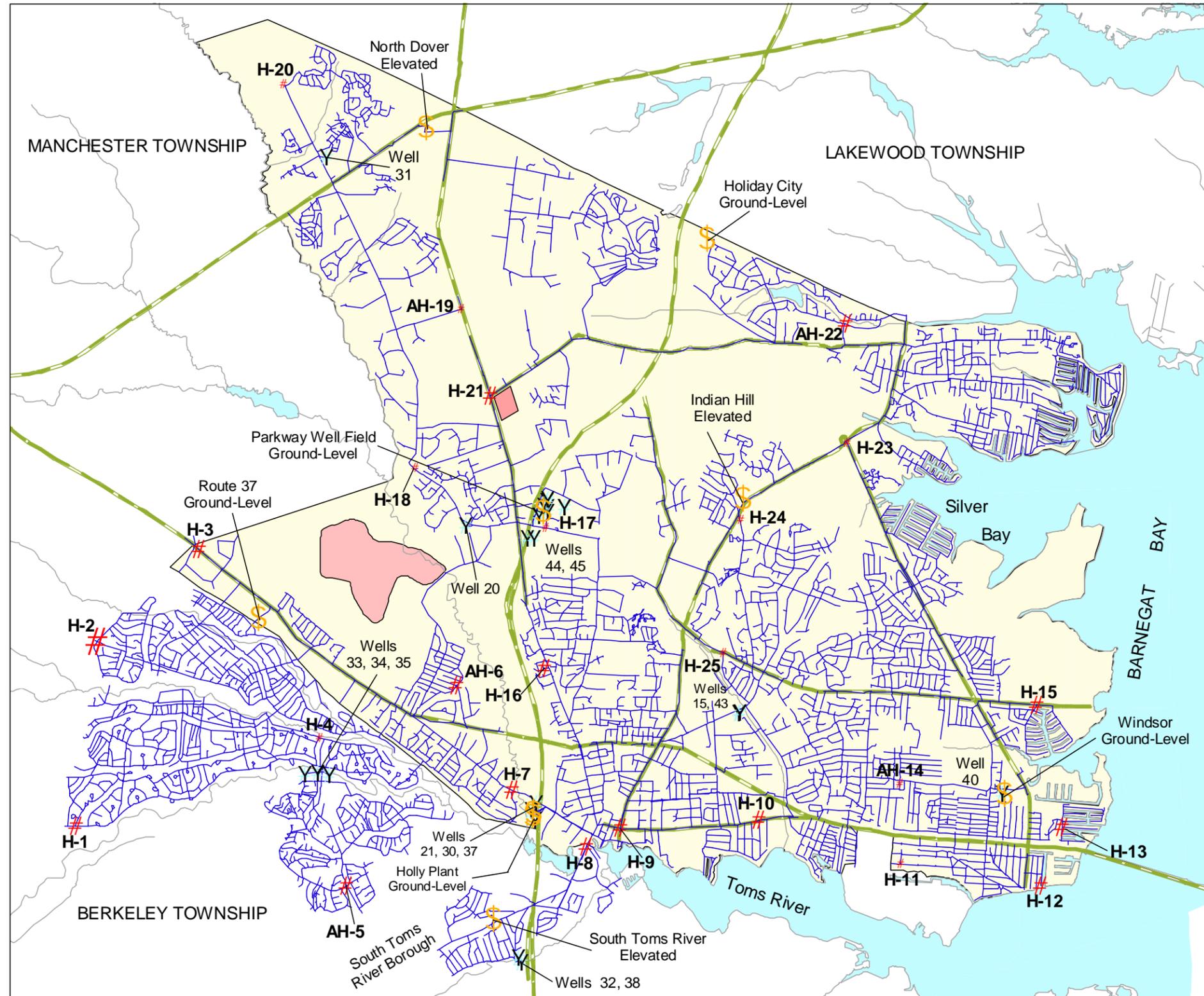
PLATE 9. DISTRIBUTION OF HAZEN-WILLIAMS "C-FACTORS" ASSIGNED TO PIPELINES USED TO MODEL THE 1998 WATER-DISTRIBUTION SYSTEM SERVING THE DOVER TOWNSHIP AREA, NEW JERSEY

By Morris L. Maslia, Jason B. Sautner, and Mustafa M. Aral



**Dover Township Area, New Jersey
 Water-Distribution System Model**

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EXPLANATION

Y	Municipal Well	Red shaded area	Reich Farm NPL Site
\$	Storage Tanks	Light red shaded area	Ciba-Geigy NPL Site
Blue line	Water Pipelines	Yellow shaded area	Dover Township
Green line	Major Roads	Light blue shaded area	Water Bodies
Grey line	Hydrography	H-15	Test Hydrant Number

Mean absolute pressure difference in pounds per square inch (psi)

#	0.00 - 2.50
#	2.51 - 5.00
#	Greater than 5.00

0.5 0 0.5 1 1.5 2 2.5 Miles

N

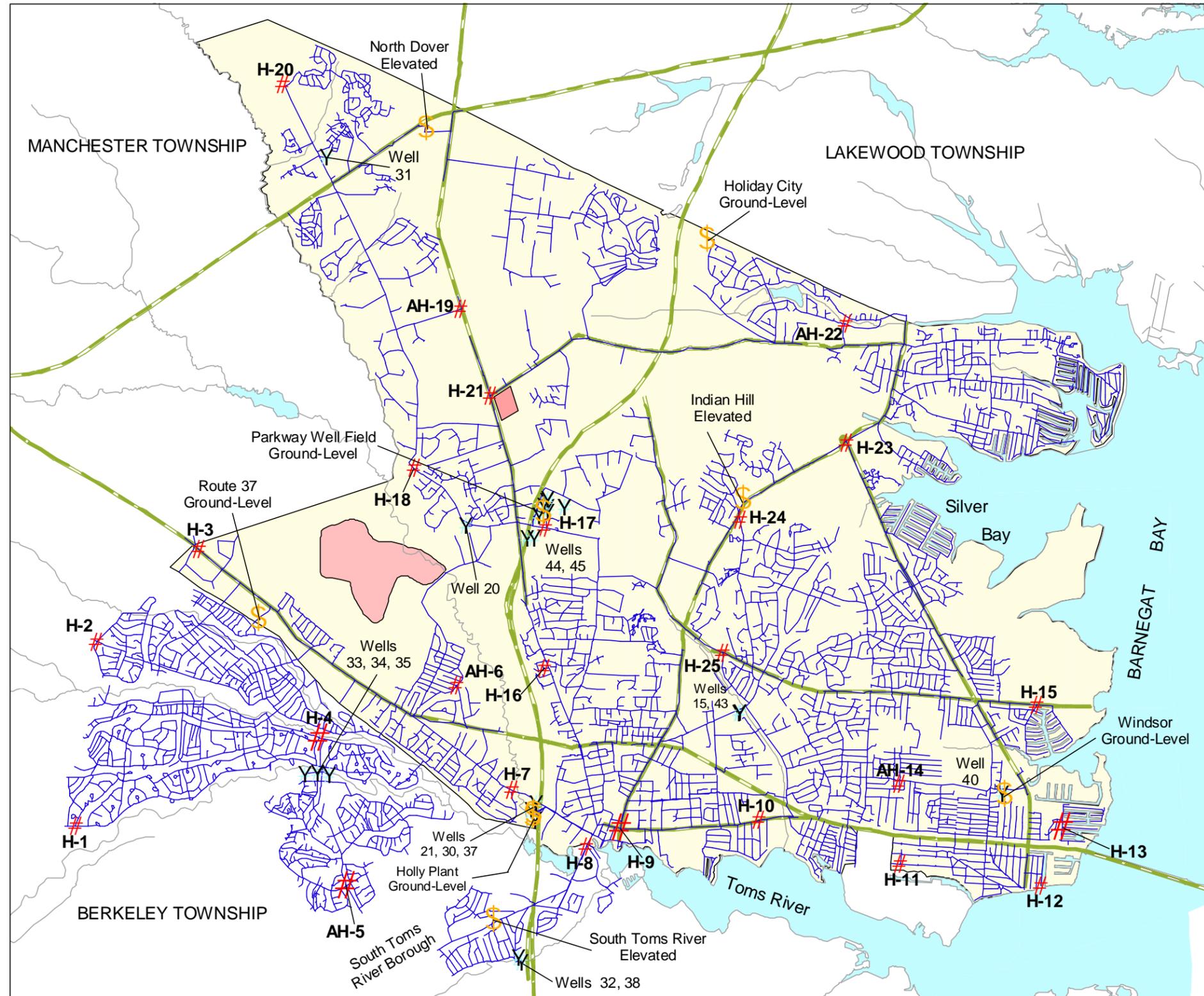
PLATE 10. AREAL DISTRIBUTION OF MEAN ABSOLUTE PRESSURE DIFFERENCE BETWEEN MARCH 1998 TEST DATA AND SIMULATION, DOVER TOWNSHIP AREA, NEW JERSEY

By Morris L. Maslia, Jason B. Sautner, and Mustafa M. Aral



**Dover Township Area, New Jersey
 Water-Distribution System Model**

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EXPLANATION

Y	Municipal Well	■	Reich Farm NPL Site
\$	Storage Tanks	■	Ciba-Geigy NPL Site
—	Water Pipelines	□	Dover Township
—	Major Roads	■	Water Bodies
—	Hydrography	#	H-15 Test Hydrant Number

Mean absolute pressure difference
in pounds per square inch (psi)

#	0.00 - 2.50
#	2.51 - 5.00
#	Greater than 5.00

0.5 0 0.5 1 1.5 2 2.5 Miles

N

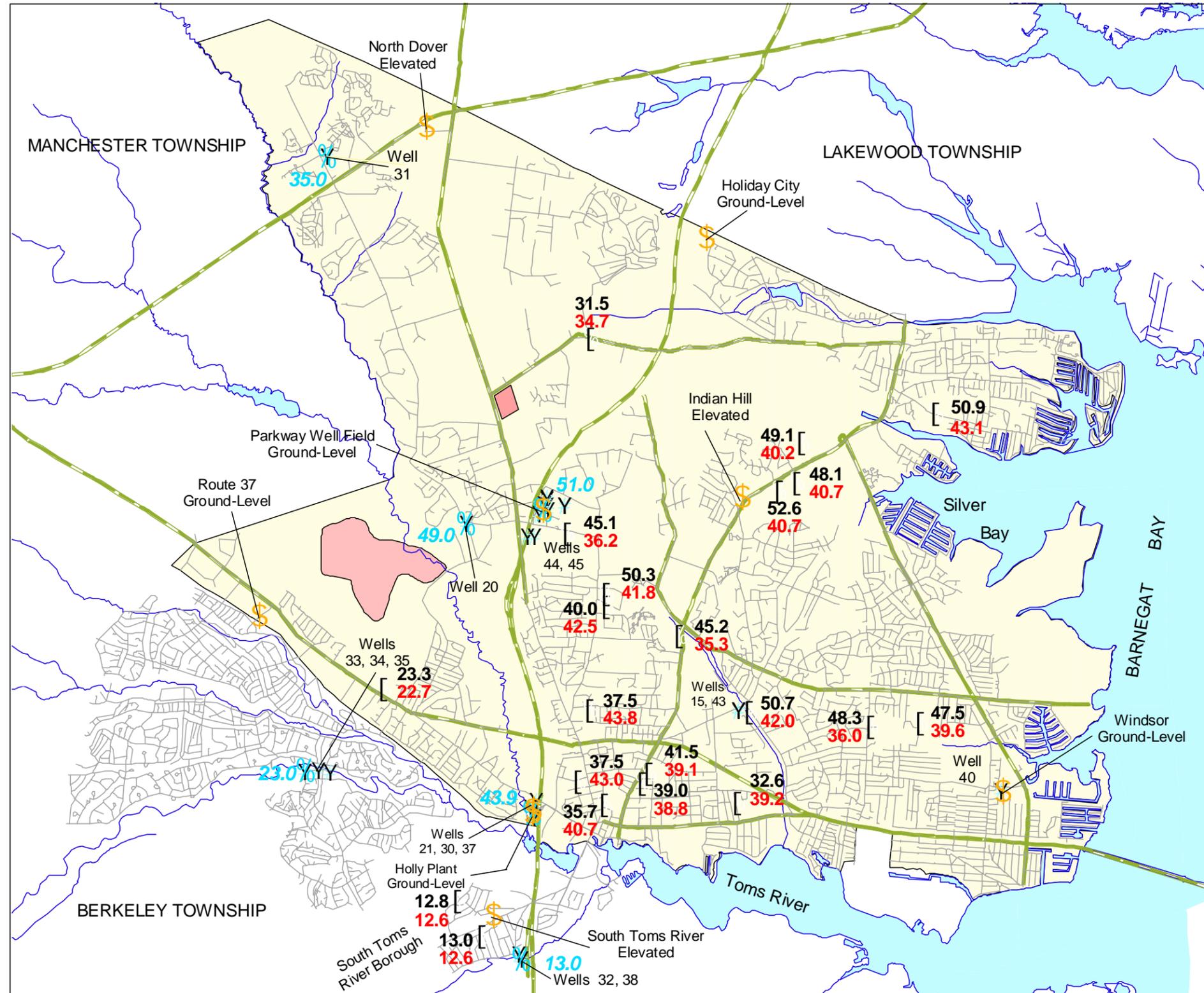
PLATE 11. AREAL DISTRIBUTION OF MEAN ABSOLUTE PRESSURE DIFFERENCE BETWEEN AUGUST 1998 TEST DATA AND SIMULATION, DOVER TOWNSHIP AREA, NEW JERSEY

By Morris L. Maslia, Jason B. Sautner, and Mustafa M. Aral



**Dover Township Area, New Jersey
 Water-Distribution System Model**

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- EXPLANATION**
- Y Municipal Well
 - \$ Storage Tank
 - Water Pipeline
 - Major Road
 - Hydrography
 - Reich Farm NPL Site
 - Ciba-Geigy NPL Site
 - Dover Township
 - Water Body

Barium concentration, in micrograms per liter

[47.5
39.6] Top number is measured value; bottom number is simulated value at 08:00 hours on March 28, 1996.

% 13.0 Point of entry (source) for barium; number is measured value for April 4 and 24, 1996 (see text for explanation)



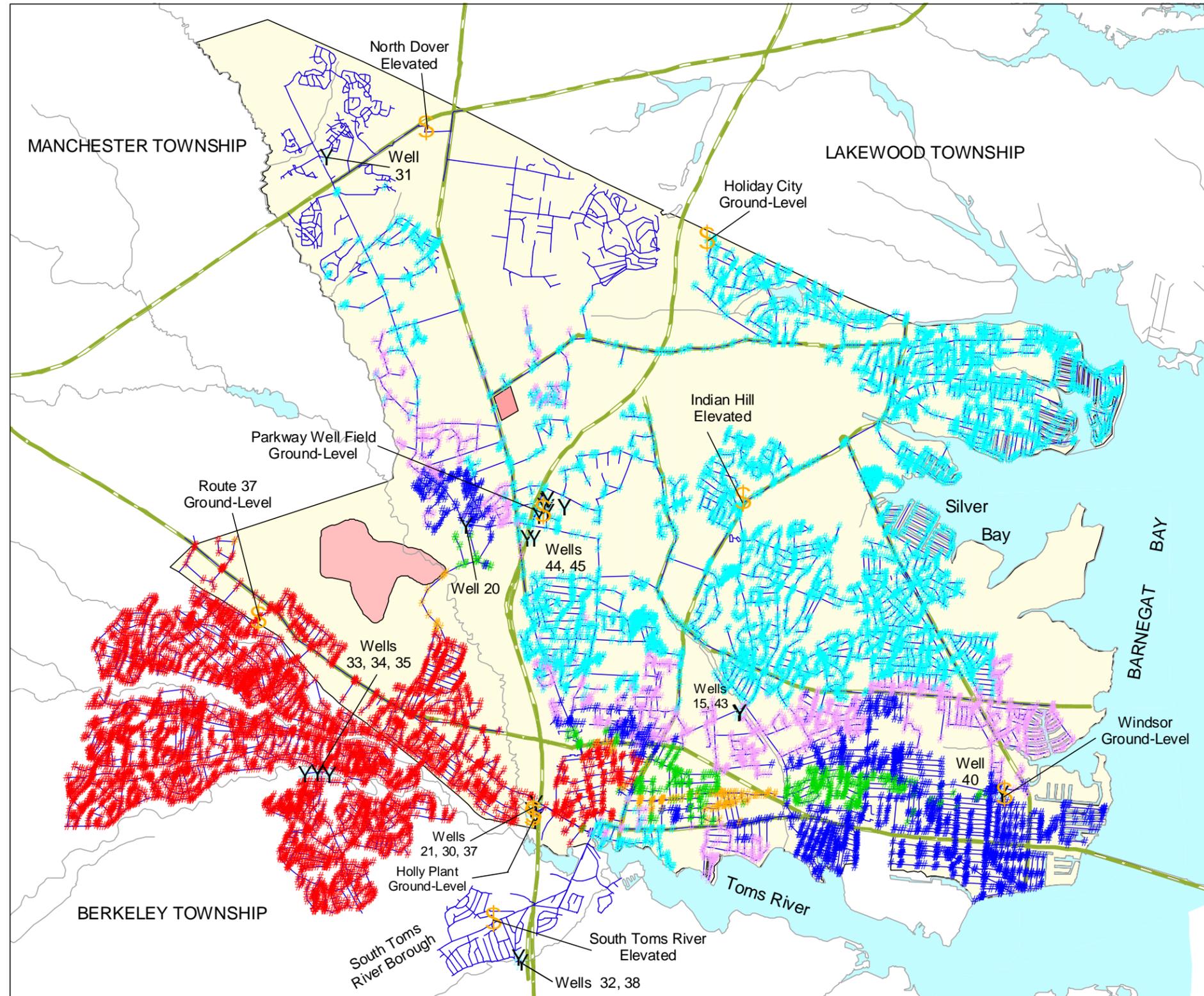
**PLATE 12. AREAL DISTRIBUTION OF MEASURED AND SIMULATED BARIUM CONCENTRATIONS
 MARCH AND APRIL 1996, DOVER TOWNSHIP AREA, NEW JERSEY**

By Morris L. Maslia, Jason B. Sautner, and Mustafa M. Aral



**Dover Township Area, New Jersey
 Water-Distribution System Model**

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EXPLANATION

Y	Municipal Well	Reich Farm NPL Site
\$	Storage Tank	Ciba-Geigy NPL Site
~	Water Pipeline	Dover Township
—	Major Road	Water Body
~	Hydrography	

Percentage of water contributed by the Berkeley wells (33, 34, 35), 24-hour average

#	1 - 10	#	50 - 75
#	10 - 25	#	75 - 90
#	25 - 50	#	90 - 100

Note: Percentage of water based on calibrated model reaching dynamic equilibrium after 1,000 hours of simulation time

0.5 0 0.5 1 1.5 2 2.5 Miles

N

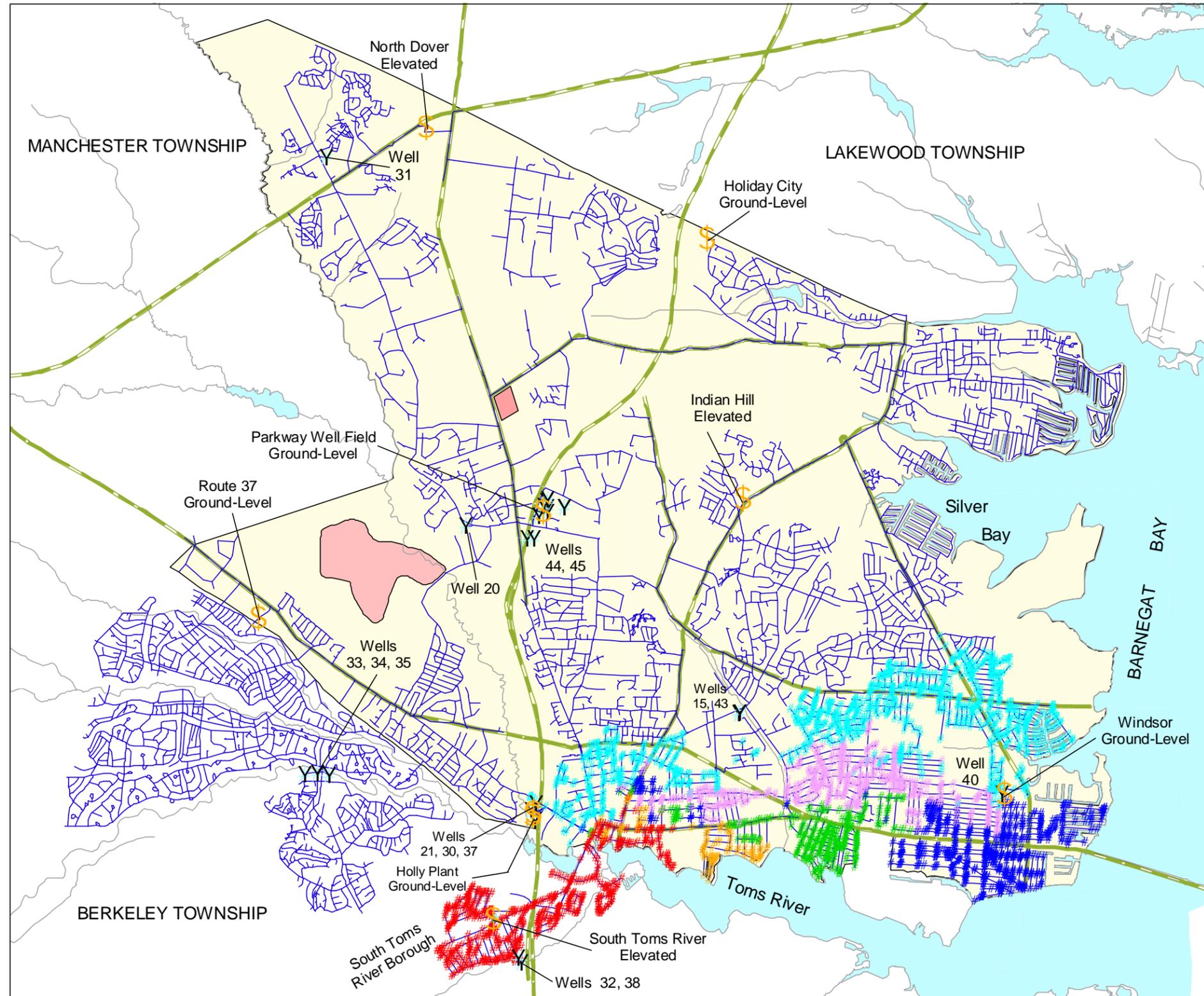
PLATE 13. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE BERKELEY WELLS (33, 34, 35) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY MARCH 1998 CONDITIONS

By Morris L. Maslia, Jason B. Sautner, and Mustafa M. Aral



**Dover Township Area, New Jersey
 Water-Distribution System Model**

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EXPLANATION

Y	Municipal Well	Red shaded area	Reich Farm NPL Site
\$	Storage Tank	Light red shaded area	Ciba-Geigy NPL Site
Blue line	Water Pipeline	Yellow shaded area	Dover Township
Green line	Major Road	Light blue shaded area	Water Body
Grey line	Hydrography		

Percentage of water contributed by the South Toms River well (32), 24-hour average

#	1 - 10	#	50 - 75
#	10 - 25	#	75 - 90
#	25 - 50	#	90 - 100

Note: Percentage of water based on calibrated model reaching dynamic equilibrium after 1,000 hours of simulation time

0.5 0 0.5 1 1.5 2 2.5 Miles

N

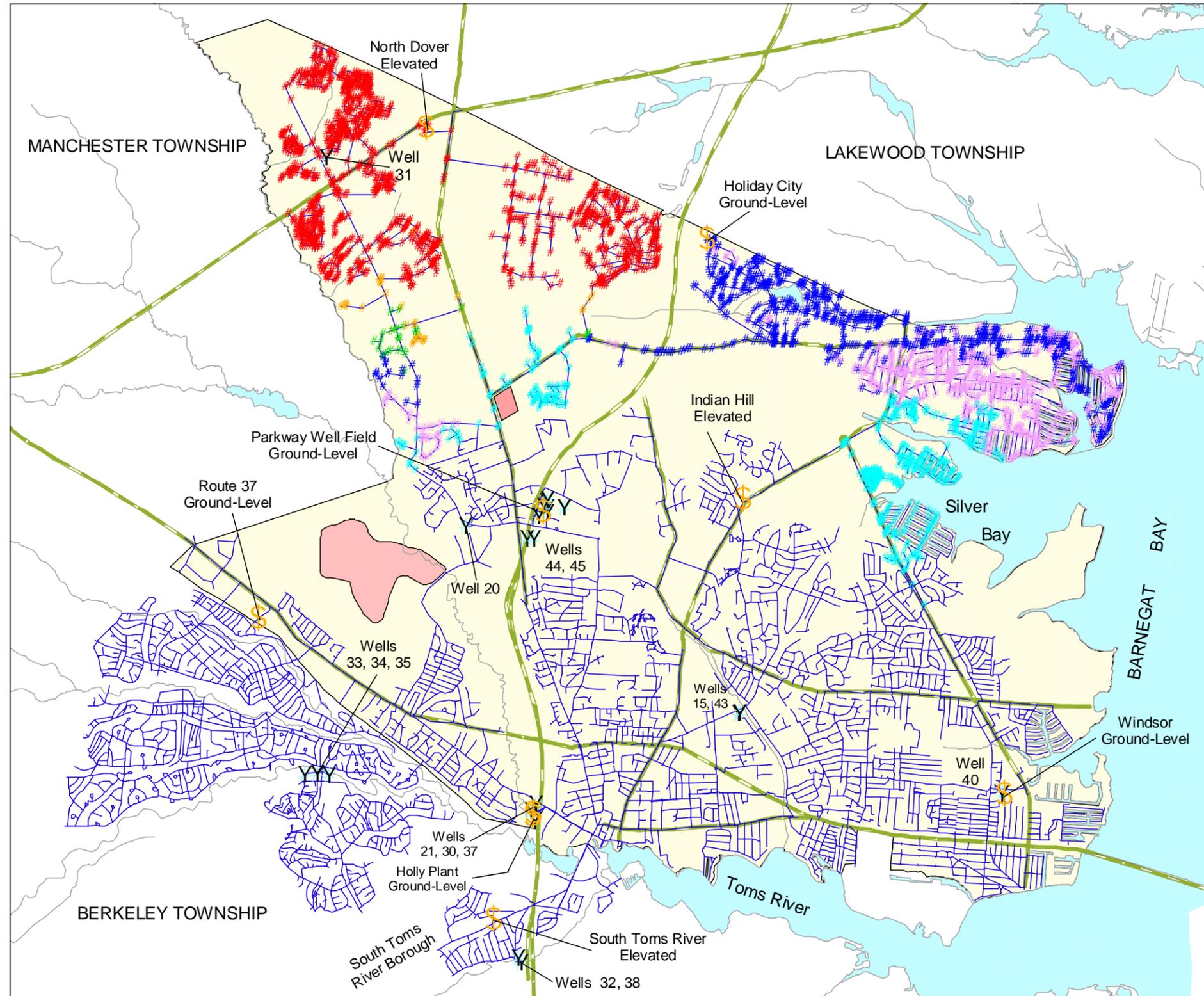
PLATE 14. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE SOUTH TOMS RIVER WELL (32) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY MARCH 1998 CONDITIONS

By Morris L. Maslia, Jason B. Sautner, and Mustafa M. Aral



**Dover Township Area, New Jersey
 Water-Distribution System Model**

Maslia ML, Sautner JB, Aral MM. 2000. Analysis of the 1998 water-distribution system serving the Dover Township area, New Jersey: field-data collection activities and water-distribution system modeling. Atlanta: Agency for Toxic Substances and Disease Registry, June 2000.



EXPLANATION

Y	Municipal Well	Reich Farm NPL Site
\$	Storage Tank	Ciba-Geigy NPL Site
—	Water Pipeline	Dover Township
—	Major Road	Water Body
—	Hydrography	

**Percentage of water contributed by the Route 70 well (31)
24-hour average**

#	1 - 10	#	50 - 75
#	10 - 25	#	75 - 90
#	25 - 50	#	90 - 100

Note: Percentage of water based on calibrated model reaching dynamic equilibrium after 1,000 hours of simulation time

0.5 0 0.5 1 1.5 2 2.5 Miles

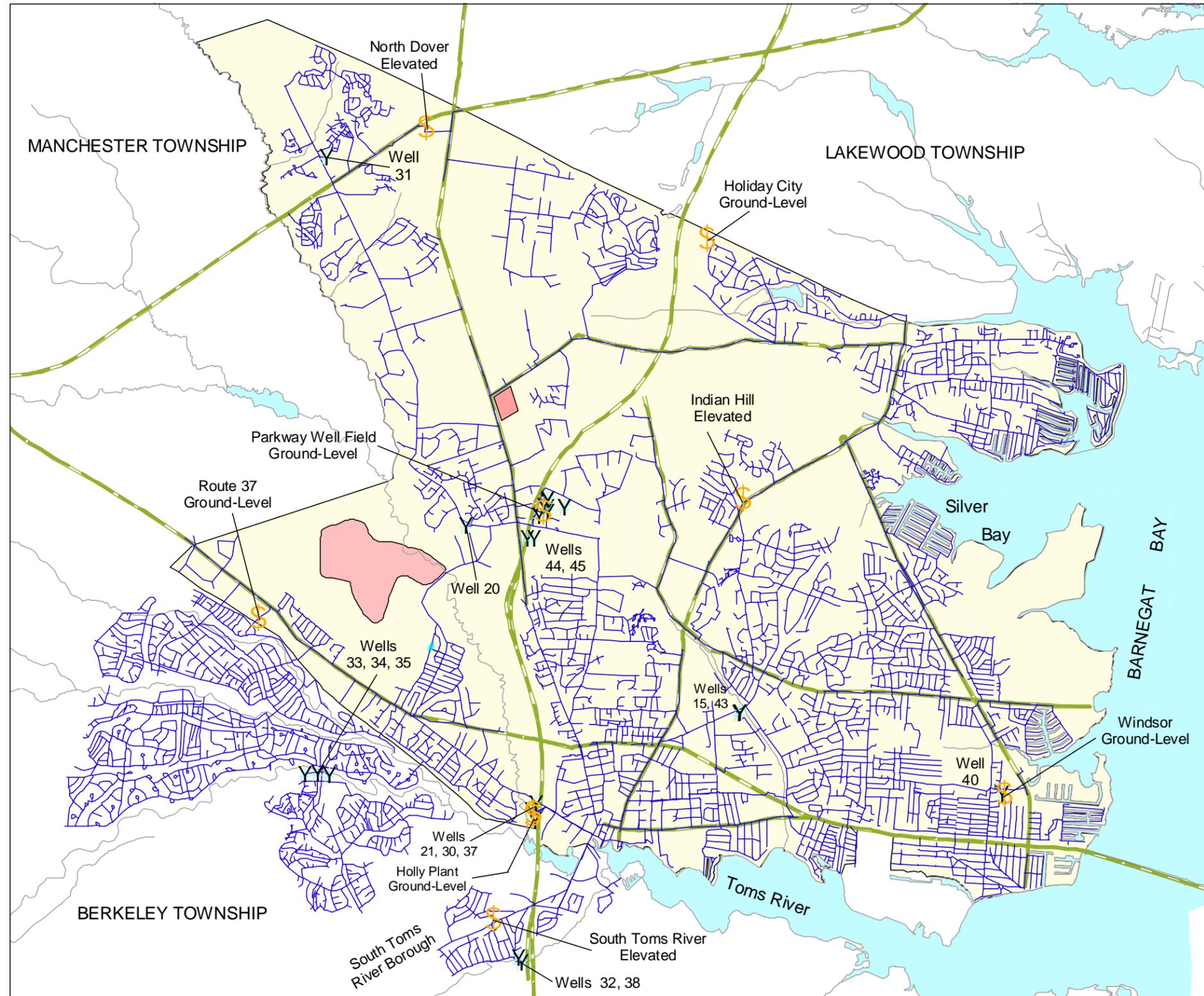
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PLATE 15. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE ROUTE 70 WELL (31) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY MARCH 1998 CONDITIONS
 By Morris L. Maslia, Jason B. Sautner, and Mustafa M. Aral



**Dover Township Area, New Jersey
 Water-Distribution System Model**

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EXPLANATION

Y	Municipal Well	Reich Farm NPL Site
\$	Storage Tank	Ciba-Geigy NPL Site
Blue line	Water Pipeline	Dover Township
Green line	Major Road	Water Body
Grey line	Hydrography	

Percentage of water contributed by the Parkway well field ground-level storage tank, 24-hour average

# 1 - 10	# 50 - 75
# 10 - 25	# 75 - 90
# 25 - 50	# 90 - 100

Note: Percentage of water based on calibrated model reaching dynamic equilibrium after 1,000 hours of simulation time

0.5 0 0.5 1 1.5 2 2.5 Miles

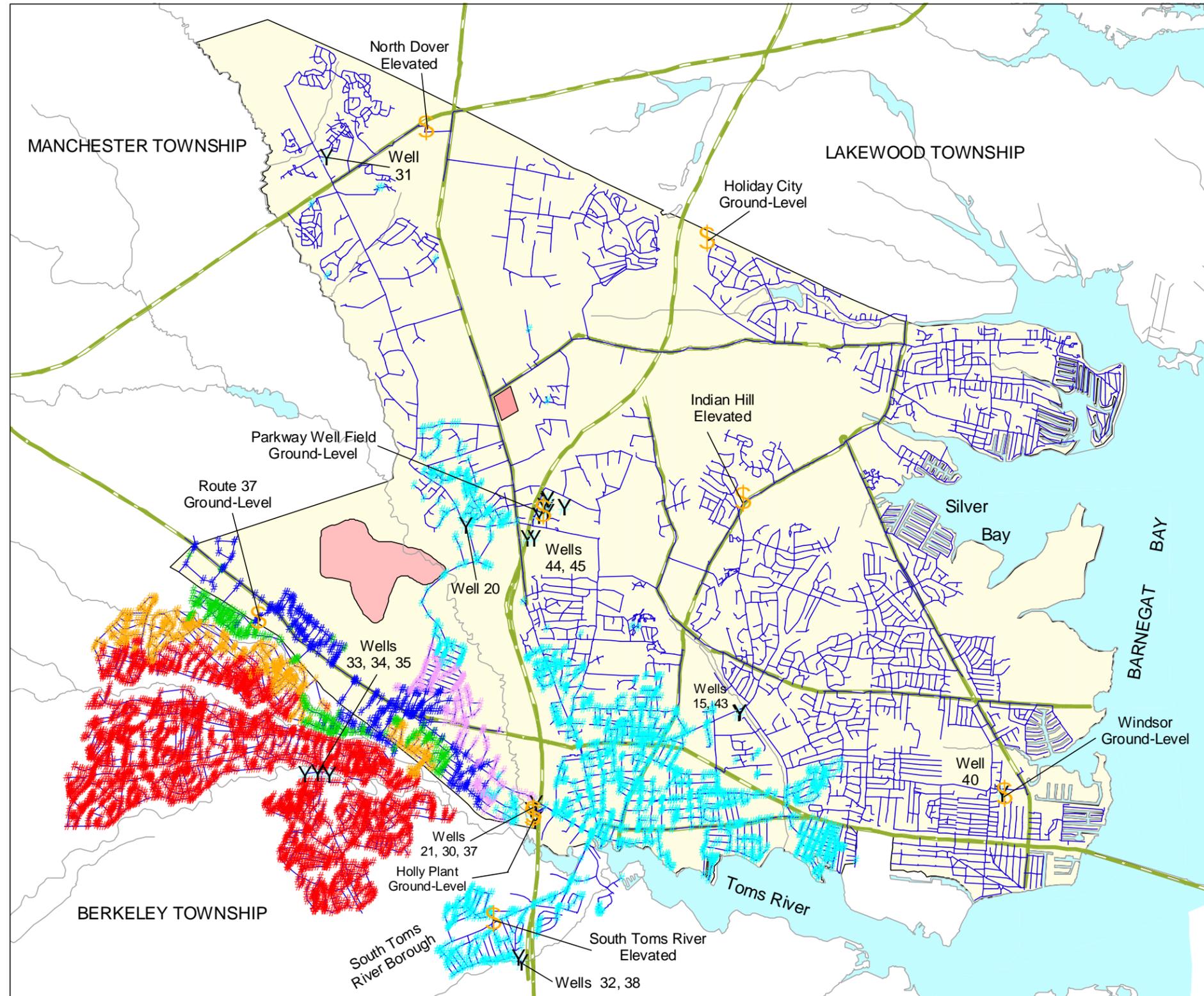
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PLATE 16. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE PARKWAY WELL FIELD GROUND-LEVEL STORAGE TANK TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY MARCH 1998 CONDITIONS
 By Morris L. Maslia, Jason B. Sautner, and Mustafa M. Aral



Dover Township Area, New Jersey Water-Distribution System Model

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EXPLANATION

- Y Municipal Well
- \$ Storage Tank
- Water Pipeline
- Major Road
- Hydrography
- Reich Farm NPL Site
- Ciba-Geigy NPL Site
- Dover Township
- Water Body

Percentage of water contributed by the Berkeley wells (33, 34, 35), 24-hour average

# 1 - 10	# 50 - 75
# 10 - 25	# 75 - 90
# 25 - 50	# 90 - 100

Note: Percentage of water based on calibrated model reaching dynamic equilibrium after 1,000 hours of simulation time

0.5 0 0.5 1 1.5 2 2.5 Miles

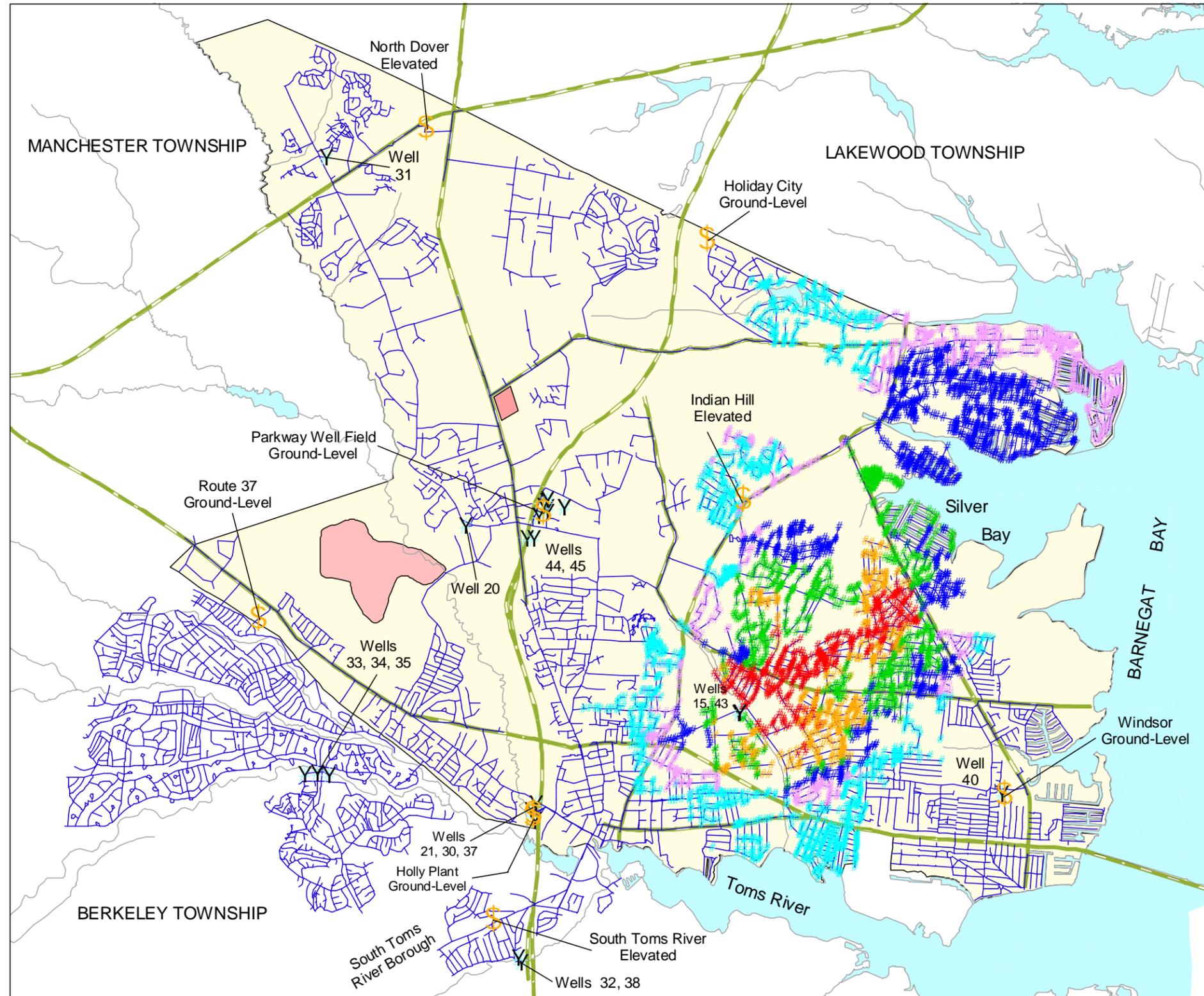
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PLATE 17. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE BERKELEY WELLS (33, 34, 35) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY AUGUST 1998 CONDITIONS
 By Morris L. Maslia, Jason B. Sautner, and Mustafa M. Aral



**Dover Township Area, New Jersey
 Water-Distribution System Model**

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EXPLANATION

Y	Municipal Well	Reich Farm NPL Site
\$	Storage Tank	Ciba-Geigy NPL Site
—	Water Pipeline	Dover Township
—	Major Road	Water Body
—	Hydrography	

Percentage of water contributed by the Brookside well (43)
 24-hour average

#	1 - 10	#	50 - 75
#	10 - 25	#	75 - 90
#	25 - 50	#	90 - 100

Note: Percentage of water based on calibrated model reaching dynamic equilibrium after 1,000 hours of simulation time

0.5 0 0.5 1 1.5 2 2.5 Miles

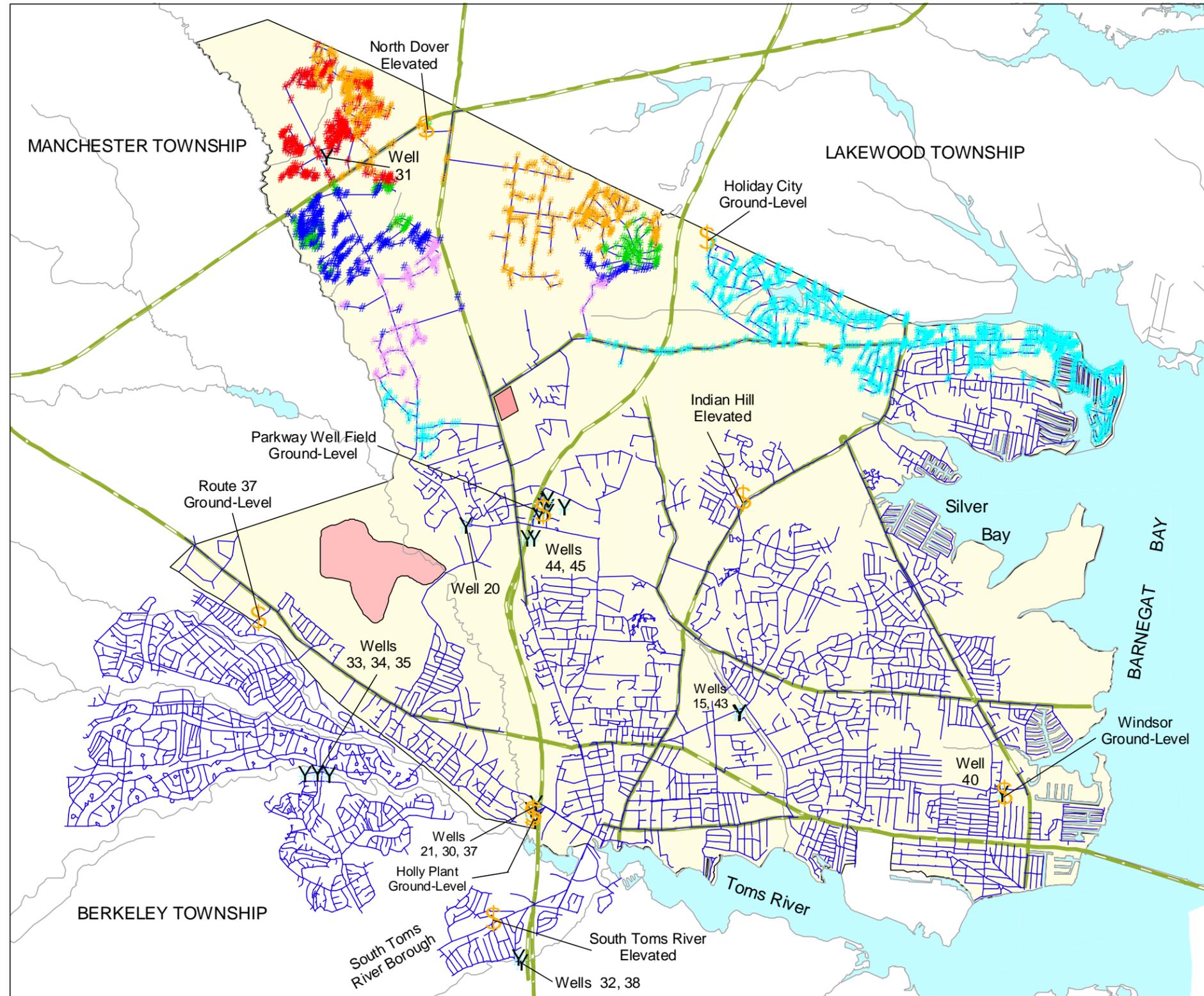
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PLATE 18. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE BROOKSIDE WELL (43) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY AUGUST 1998 CONDITIONS
 By Morris L. Maslia, Jason B. Sautner, and Mustafa M. Aral



**Dover Township Area, New Jersey
 Water-Distribution System Model**

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EXPLANATION

Y	Municipal Well	Reich Farm NPL Site
\$	Storage Tank	Ciba-Geigy NPL Site
~	Water Pipeline	Dover Township
~	Major Road	Water Body
~	Hydrography	

**Percentage of water contributed by the Route 70 well (31)
24-hour average**

#	1 - 10	#	50 - 75
#	10 - 25	#	75 - 90
#	25 - 50	#	90 - 100

Note: Percentage of water based on calibrated model reaching dynamic equilibrium after 1,000 hours of simulation time

0.5 0 0.5 1 1.5 2 2.5 Miles

N

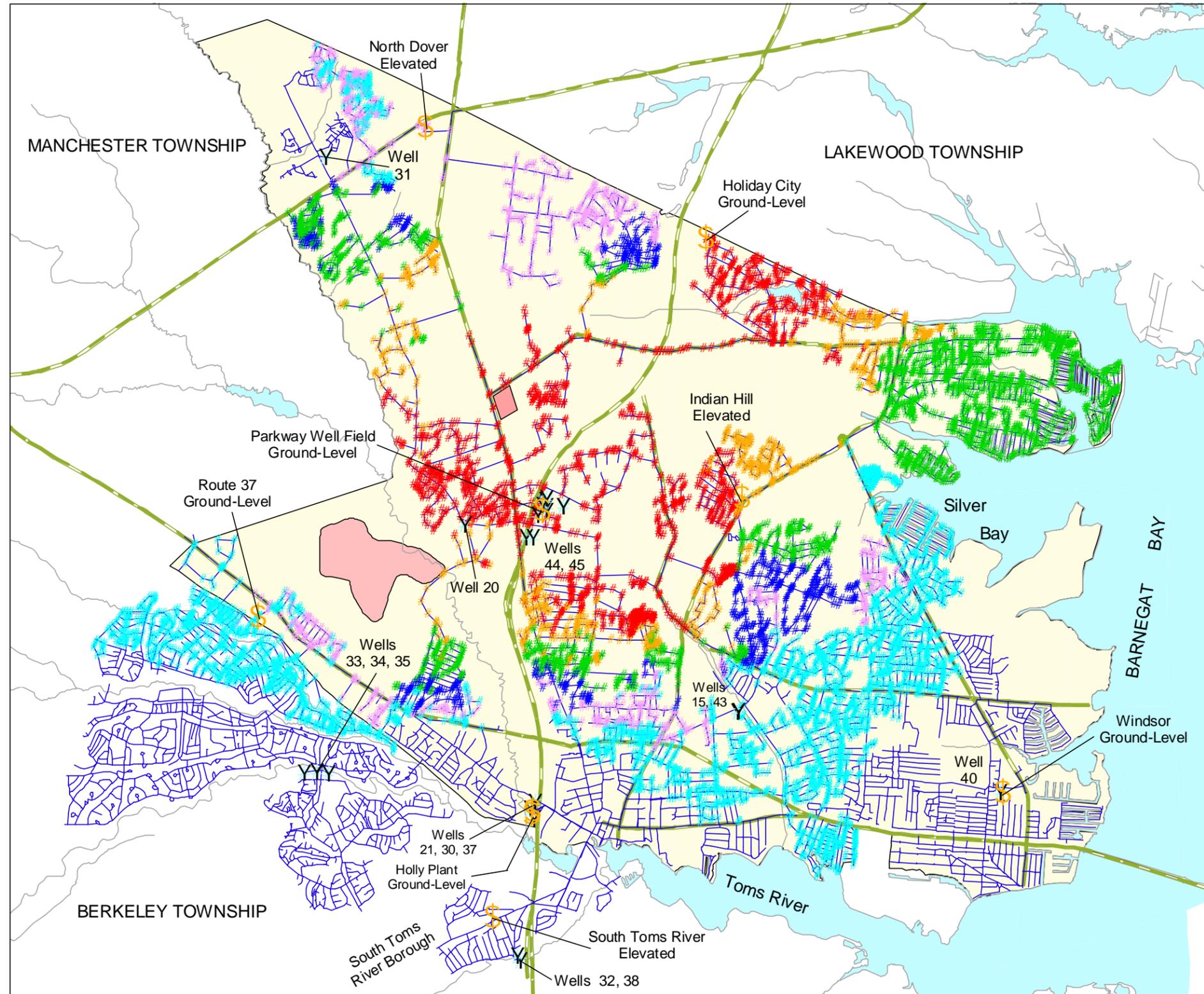
PLATE 19. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE ROUTE 70 WELL (31) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY AUGUST 1998 CONDITIONS

By Morris L. Maslia, Jason B. Sautner, and Mustafa M. Aral



**Dover Township Area, New Jersey
Water-Distribution System Model**

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EXPLANATION

Y	Municipal Well	Reich Farm NPL Site
\$	Storage Tank	Ciba-Geigy NPL Site
—	Water Pipeline	Dover Township
—	Major Road	Water Body
—	Hydrography	

Percentage of water contributed by the Parkway well field ground-level storage tank, 24-hour average

#	1 - 10	#	50 - 75
#	10 - 25	#	75 - 90
#	25 - 50	#	90 - 100

Note: Percentage of water based on calibrated model reaching dynamic equilibrium after 1,000 hours of simulation time

0.5 0 0.5 1 1.5 2 2.5 Miles

N

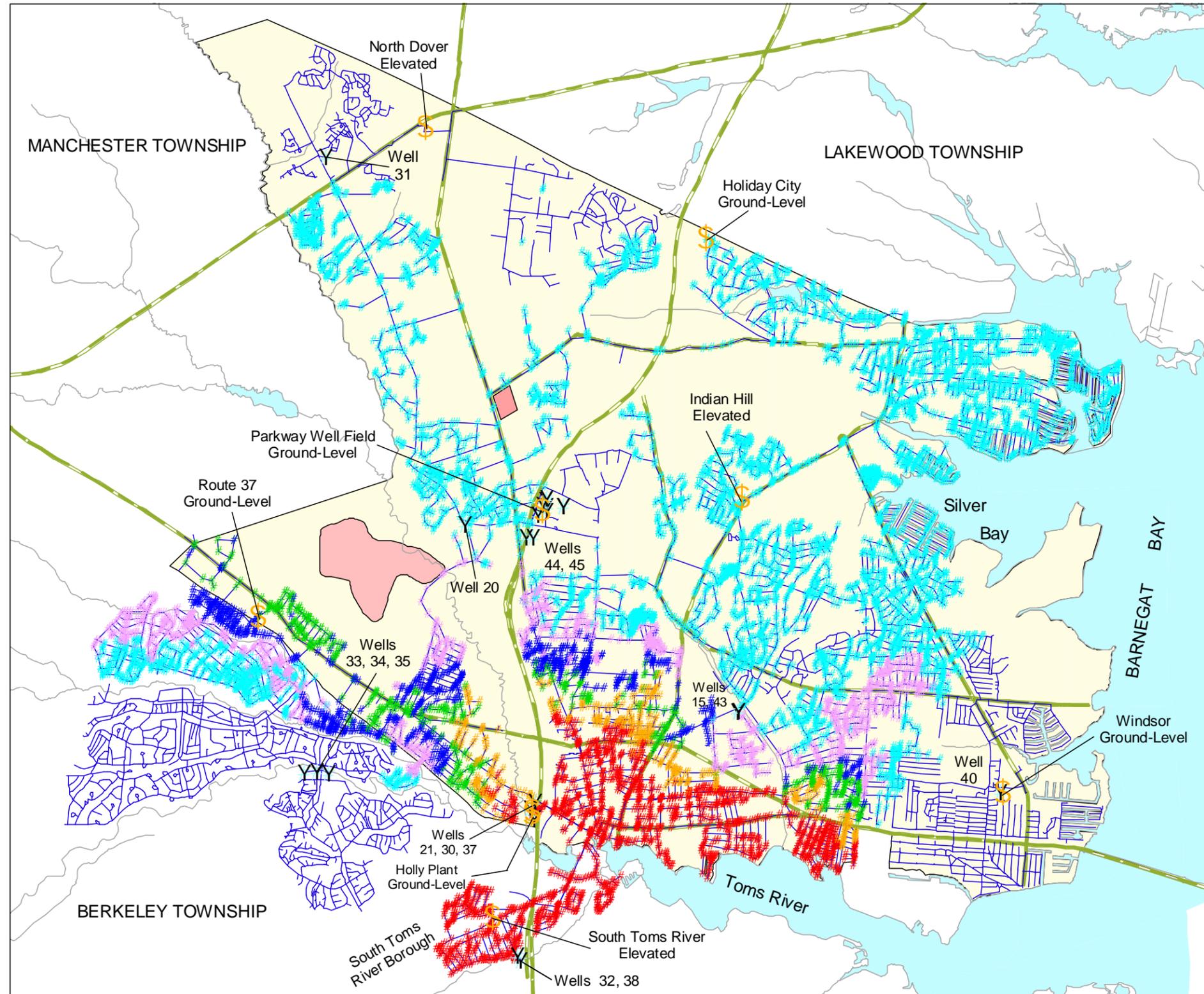
PLATE 20. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE PARKWAY WELL FIELD GROUND-LEVEL STORAGE TANK TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY AUGUST 1998 CONDITIONS

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**Dover Township Area, New Jersey
 Water-Distribution System Model**

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EXPLANATION

Y	Municipal Well	Reich Farm NPL Site
\$	Storage Tank	Ciba-Geigy NPL Site
~	Water Pipeline	Dover Township
—	Major Road	Water Body
~	Hydrography	

Percentage of water contributed by the Holly Plant ground-level storage tank, 24-hour average

# 1 - 10	# 50 - 75
# 10 - 25	# 75 - 90
# 25 - 50	# 90 - 100

Note: Percentage of water based on calibrated model reaching dynamic equilibrium after 1,000 hours of simulation time

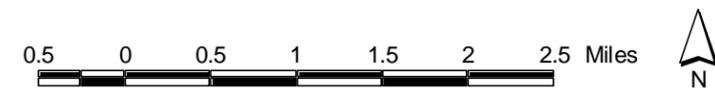
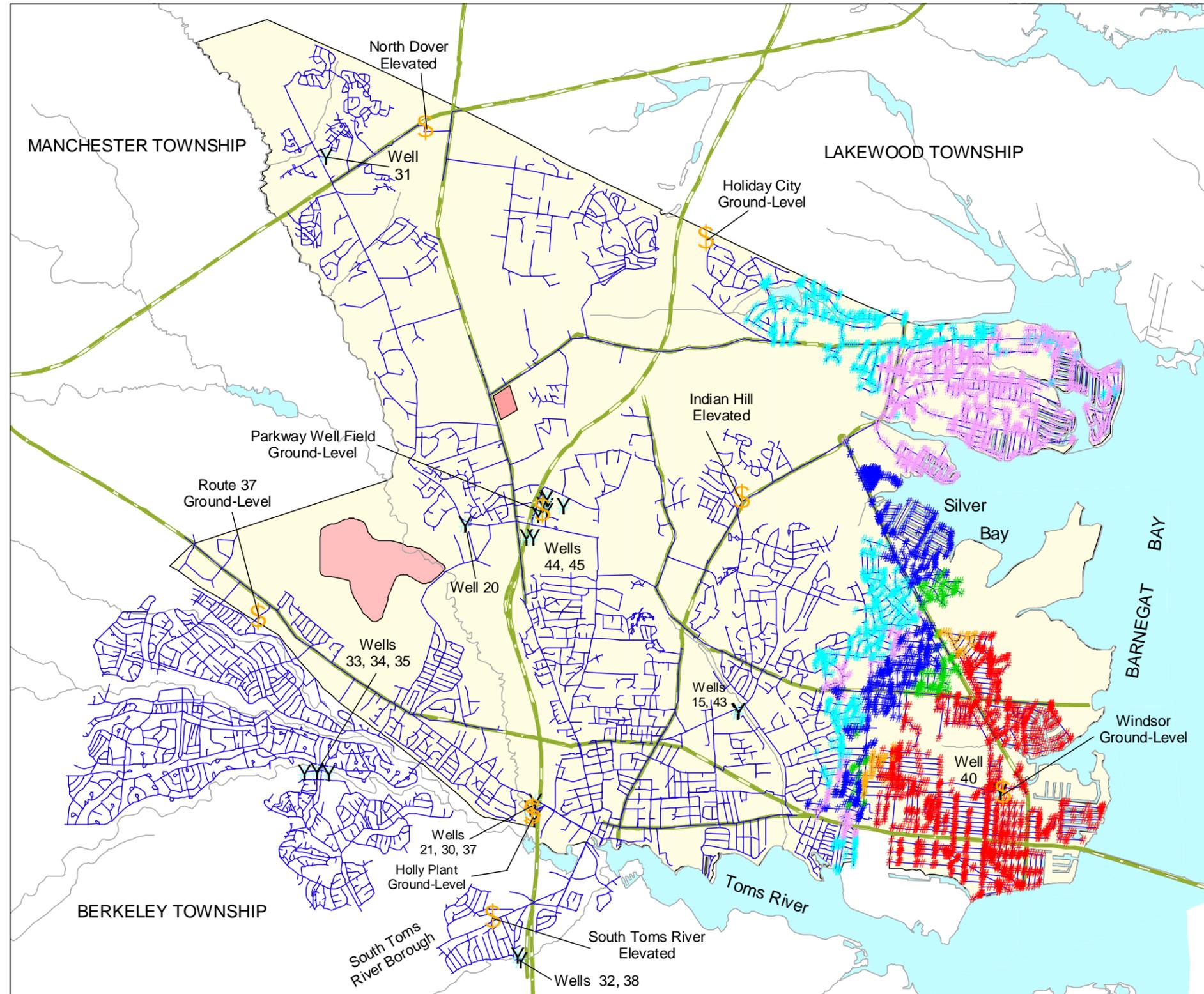


PLATE 21. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE HOLLY PLANT GROUND-LEVEL STORAGE TANK TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY AUGUST 1998 CONDITIONS
 By Morris L. Maslia, Jason B. Sautner, and Mustafa M. Aral



Dover Township Area, New Jersey Water-Distribution System Model

Maslia ML, Sautner JB, Aral MM. 2000. Analysis of the 1998 water-distribution system serving the Dover Township area, New Jersey: field-data collection activities and water-distribution system modeling. Atlanta: Agency for Toxic Substances and Disease Registry, June 2000.



EXPLANATION

Y	Municipal Well	Reich Farm NPL Site
\$	Storage Tank	Ciba-Geigy NPL Site
Blue line	Water Pipeline	Dover Township
Green line	Major Road	Water Body
Grey line	Hydrography	

Percentage of water contributed by the Windsor ground-level storage tank, 24-hour average

# 1 - 10	# 50 - 75
# 10 - 25	# 75 - 90
# 25 - 50	# 90 - 100

Note: Percentage of water based on calibrated model reaching dynamic equilibrium after 1,000 hours of simulation time

0.5 0 0.5 1 1.5 2 2.5 Miles

N

PLATE 22. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE WINDSOR GROUND-LEVEL STORAGE TANK TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY AUGUST 1998 CONDITIONS
 By Morris L. Maslia, Jason B. Sautner, and Mustafa M. Aral



Dover Township Area, New Jersey Water-Distribution System Model

Maslia ML, Sautner JB, Aral MM. 2000. Analysis of the 1998 water-distribution system serving the Dover Township area, New Jersey: field-data collection activities and water-distribution system modeling. Atlanta: Agency for Toxic Substances and Disease Registry, June 2000.