

**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:red; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:yellow;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom:1px solid grey;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue;"></span> Water body	<span style="display:inline-block; width:10px; height:10px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:10px; height:10px; background-color:yellow; border:1px solid black; transform:translate(50%,50%);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

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

<span style="display:inline-block; width:10px; height:10px; background-color:orange;"></span> 1 to 10	<span style="display:inline-block; width:10px; height:10px; background-color:teal;"></span> 50 to 75
<span style="display:inline-block; width:10px; height:10px; background-color:lightgreen;"></span> 10 to 25	<span style="display:inline-block; width:10px; height:10px; background-color:blue;"></span> 75 to 90
<span style="display:inline-block; width:10px; height:10px; background-color:lightblue;"></span> 25 to 50	<span style="display:inline-block; width:10px; height:10px; background-color:darkblue;"></span> 90 to 100

Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



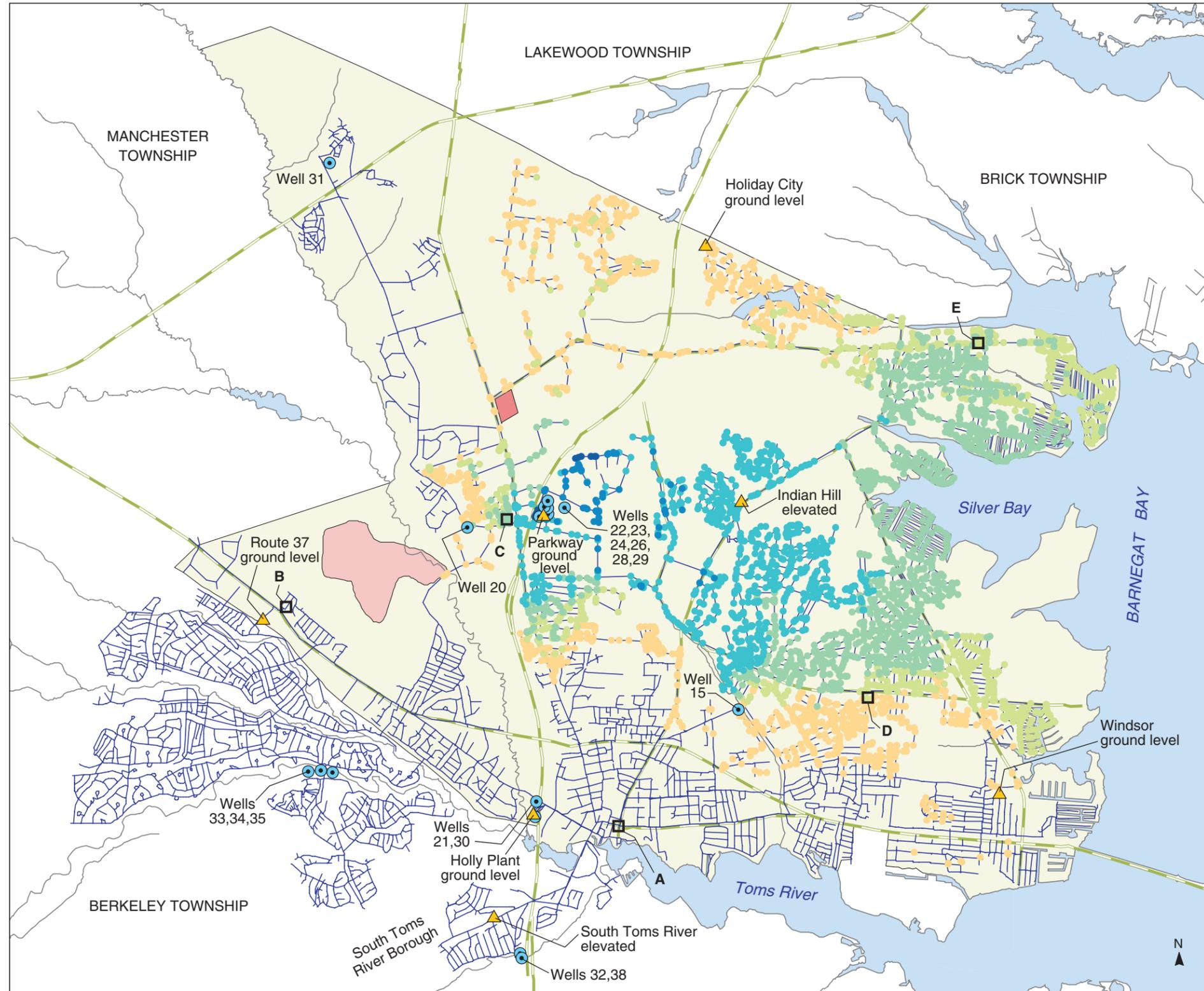
**PLATE 101. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE SOUTH TOMS RIVER WELL (32) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, FEBRUARY 1988 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



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

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.



**EXPLANATION**

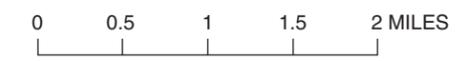
<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; height:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:lightpink; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; height:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:lightyellow; border:1px solid black;"></span> Dover Township	<span style="display:inline-block; width:15px; height:15px; border-bottom:1px solid gray;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue; border:1px solid black;"></span> Water body	<span style="display:inline-block; width:15px; height:15px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:15px; height:15px; border:1px solid black; transform:translate(50%,50%);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

Percentage of water contributed by Parkway wells (22, 24), 24-hour average

- |   |  |
|---|--|
| <span style="display:inline-block; width:15px; height:15px; background-color:orange; border-radius:50%;"></span> 1 to 10      | <span style="display:inline-block; width:15px; height:15px; background-color:lightblue; border-radius:50%;"></span> 50 to 75 |
| <span style="display:inline-block; width:15px; height:15px; background-color:lightgreen; border-radius:50%;"></span> 10 to 25 | <span style="display:inline-block; width:15px; height:15px; background-color:blue; border-radius:50%;"></span> 75 to 90      |
| <span style="display:inline-block; width:15px; height:15px; background-color:teal; border-radius:50%;"></span> 25 to 50       | <span style="display:inline-block; width:15px; height:15px; background-color:darkblue; border-radius:50%;"></span> 90 to 100 |

Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time

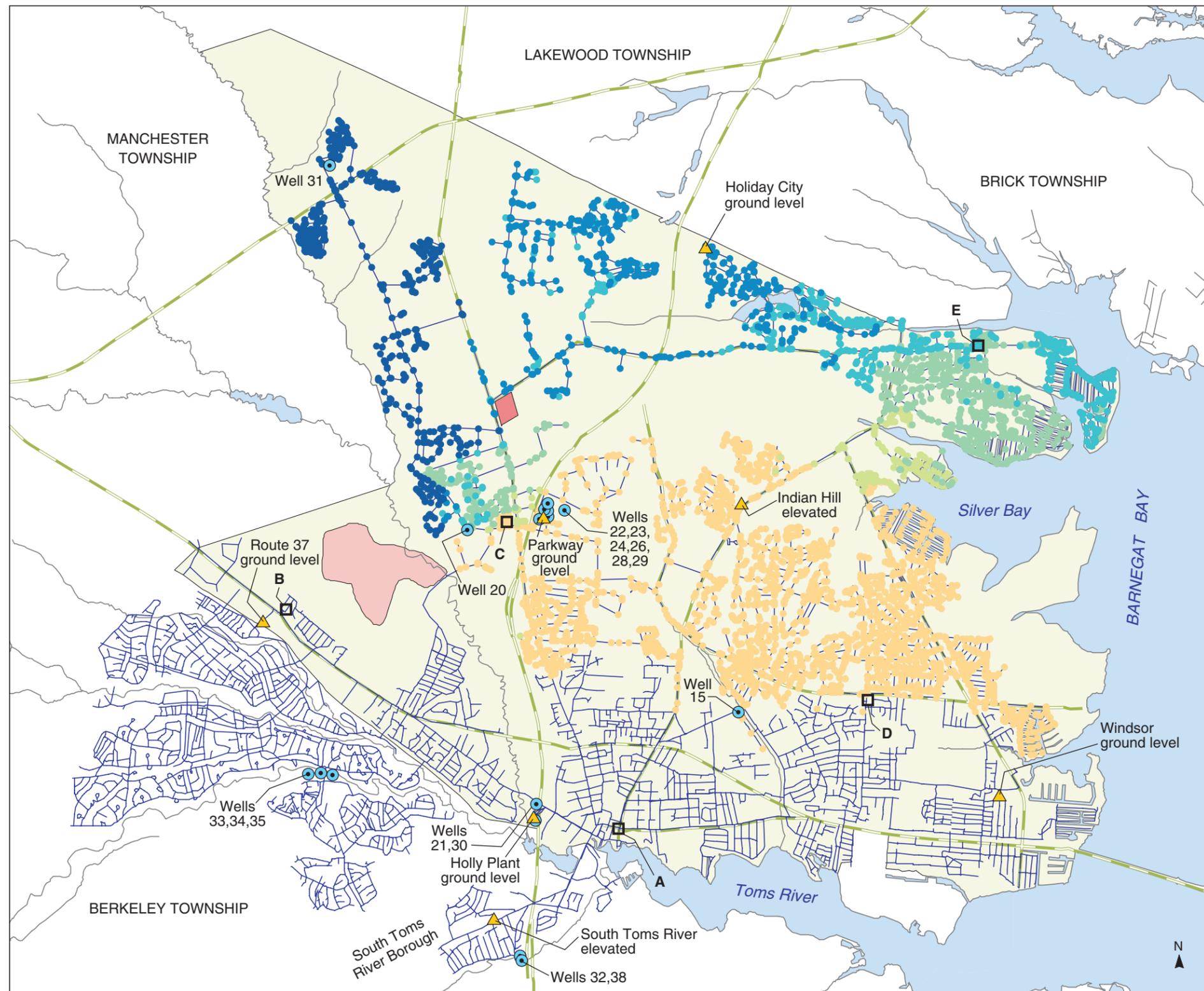


**PLATE 102. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE PARKWAY WELLS (22, 24) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, FEBRUARY 1988 CONDITIONS**  
 By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



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

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.



**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; height:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:lightpink; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; height:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:lightyellow; border:1px solid black;"></span> Dover Township	<span style="display:inline-block; width:15px; height:15px; border-bottom:1px solid gray;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue; border:1px solid black;"></span> Water body	<span style="display:inline-block; width:15px; height:15px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:15px; height:15px; border:1px solid yellow; border-radius:50%;"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

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

<span style="display:inline-block; width:10px; height:10px; background-color:orange;"></span> 1 to 10	<span style="display:inline-block; width:10px; height:10px; background-color:lightcyan;"></span> 50 to 75
<span style="display:inline-block; width:10px; height:10px; background-color:lightgreen;"></span> 10 to 25	<span style="display:inline-block; width:10px; height:10px; background-color:teal;"></span> 75 to 90
<span style="display:inline-block; width:10px; height:10px; background-color:lightblue;"></span> 25 to 50	<span style="display:inline-block; width:10px; height:10px; background-color:blue;"></span> 90 to 100

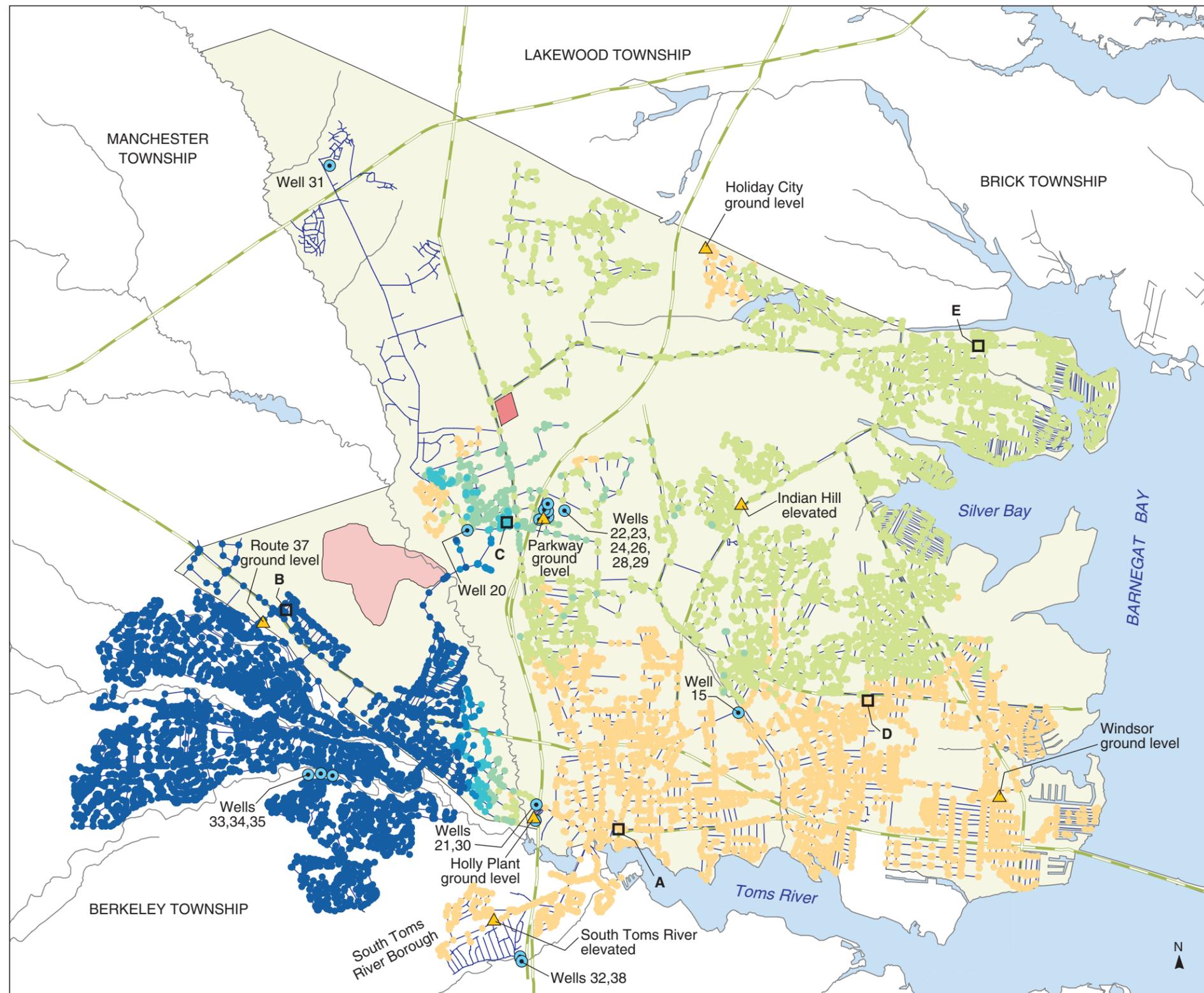
Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



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

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.

**PLATE 103. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE ROUTE 70 WELL (31) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, FEBRUARY 1988 CONDITIONS**  
 By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:lightpink; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:lightyellow; border:1px solid black;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom:1px solid gray;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue; border:1px solid black;"></span> Water body	<span style="display:inline-block; width:15px; height:15px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:15px; height:15px; border:1px solid black; transform:translate(50%,50%);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

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

<span style="display:inline-block; width:15px; height:15px; background-color:orange;"></span> 1 to 10	<span style="display:inline-block; width:15px; height:15px; background-color:teal;"></span> 50 to 75
<span style="display:inline-block; width:15px; height:15px; background-color:lightgreen;"></span> 10 to 25	<span style="display:inline-block; width:15px; height:15px; background-color:blue;"></span> 75 to 90
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue;"></span> 25 to 50	<span style="display:inline-block; width:15px; height:15px; background-color:darkblue;"></span> 90 to 100

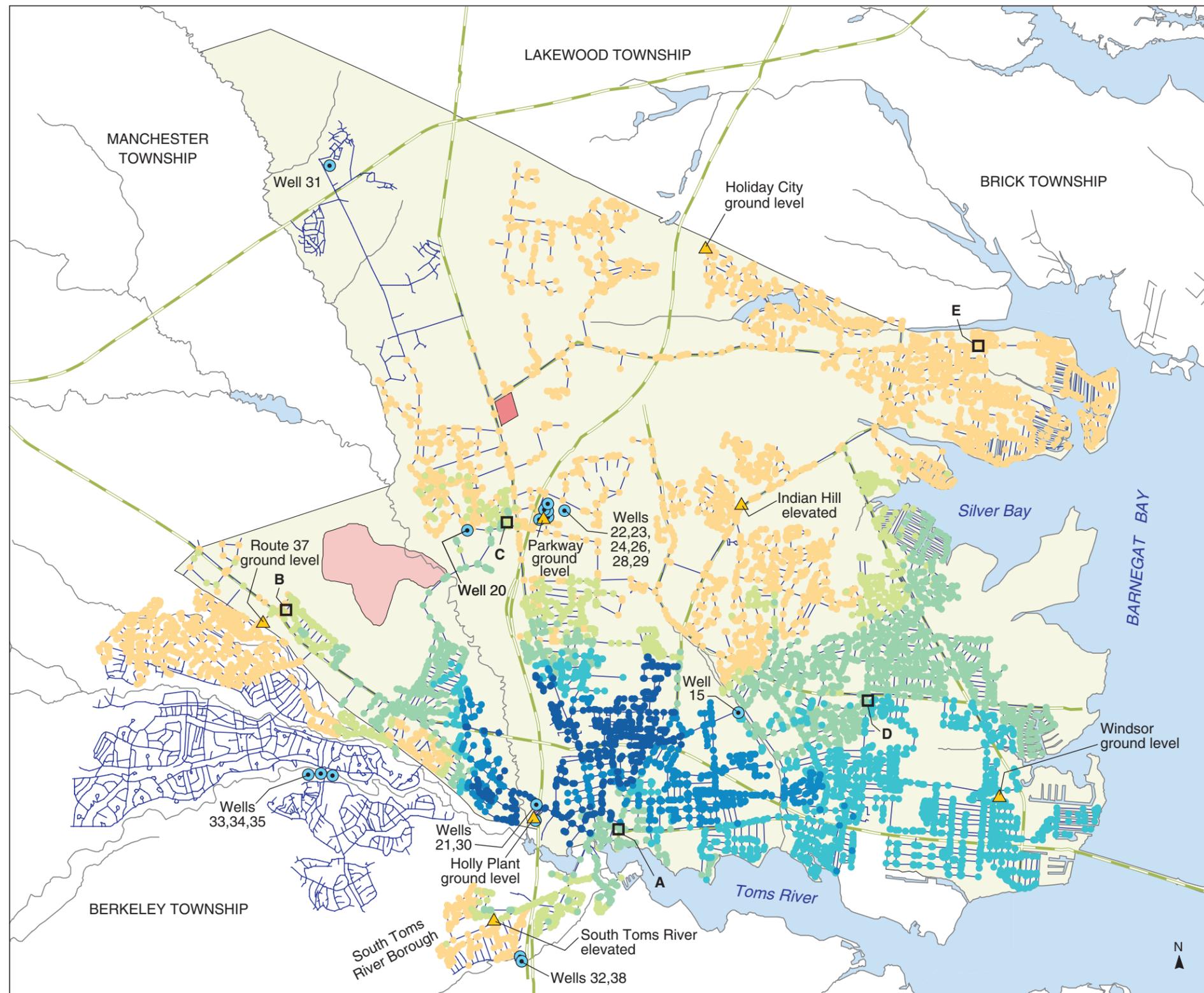
Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



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

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.

**PLATE 104. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE BERKELEY WELLS (33, 34) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, FEBRUARY 1988 CONDITIONS**  
 By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; height:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:lightpink; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; height:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:lightyellow; border:1px solid black;"></span> Dover Township	<span style="display:inline-block; width:15px; height:15px; border-bottom:1px solid gray;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue; border:1px solid black;"></span> Water body	<span style="display:inline-block; width:15px; height:15px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:15px; height:15px; border:1px solid black; transform:translate(50%,50%);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

Percentage of water contributed by Holly wells (21, 30), 24-hour average

<span style="display:inline-block; width:10px; height:10px; background-color:orange; border-radius:50%;"></span> 1 to 10	<span style="display:inline-block; width:10px; height:10px; background-color:lightblue; border-radius:50%;"></span> 50 to 75
<span style="display:inline-block; width:10px; height:10px; background-color:lightgreen; border-radius:50%;"></span> 10 to 25	<span style="display:inline-block; width:10px; height:10px; background-color:mediumblue; border-radius:50%;"></span> 75 to 90
<span style="display:inline-block; width:10px; height:10px; background-color:mediumgreen; border-radius:50%;"></span> 25 to 50	<span style="display:inline-block; width:10px; height:10px; background-color:darkblue; border-radius:50%;"></span> 90 to 100

Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time

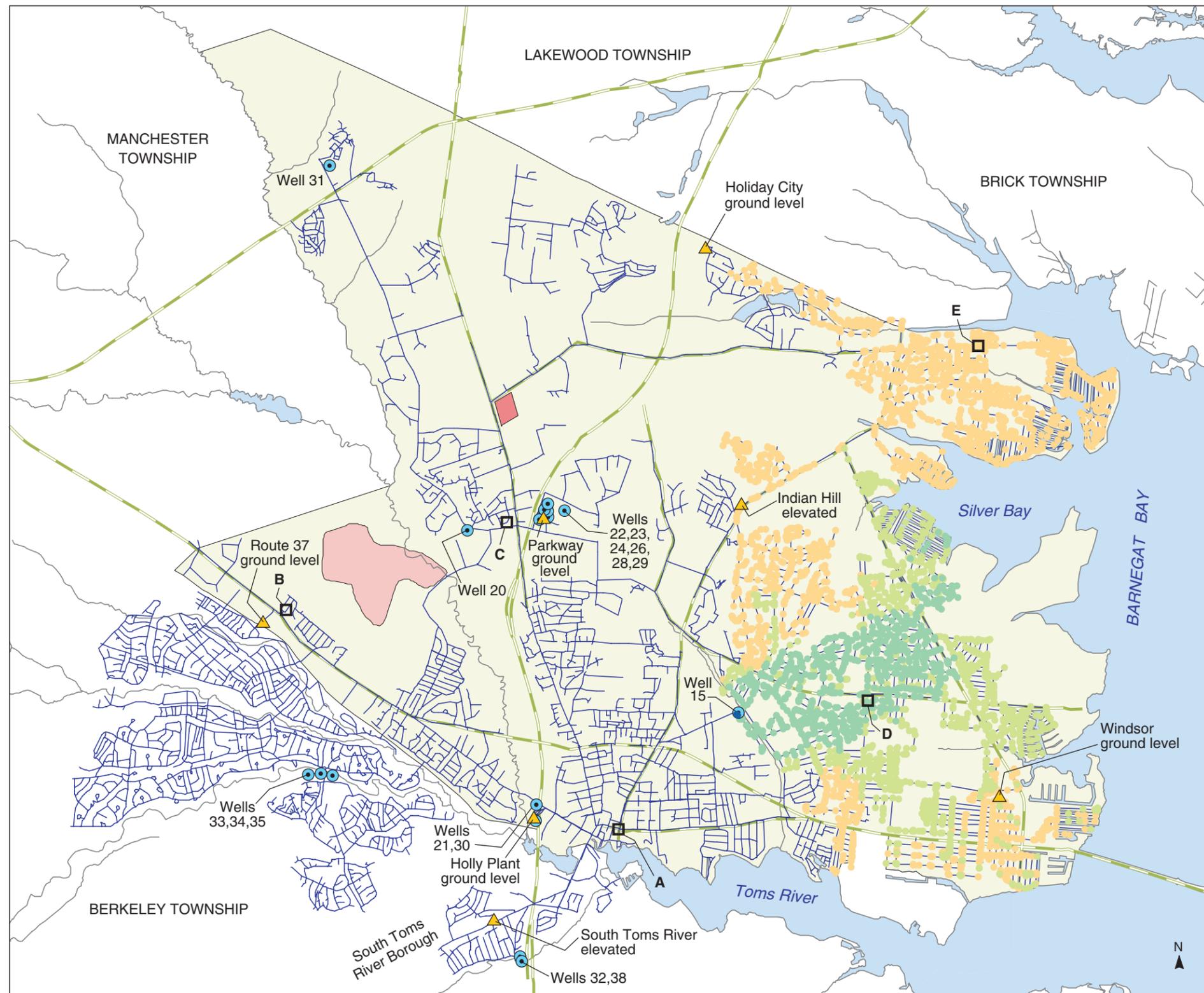


**Dover Township Area, New Jersey  
 Water-Distribution System Model  
 Historical Reconstruction Analysis**

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.

**PLATE 105. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE HOLLY WELLS (21, 30) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, JULY 1988 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:red; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:yellow;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom:1px solid grey;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue;"></span> Water body	<span style="display:inline-block; width:10px; height:10px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:10px; height:10px; background-color:yellow; clip-path: polygon(50% 0%, 61% 35%, 98% 35%, 68% 57%, 98% 57%, 61% 80%, 50% 45%, 39% 80%, 2% 57%, 68% 57%);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

Percentage of water contributed by Brookside well (15), 24-hour average

<span style="display:inline-block; width:10px; height:10px; background-color:orange;"></span> 1 to 10	<span style="display:inline-block; width:10px; height:10px; background-color:teal;"></span> 50 to 75
<span style="display:inline-block; width:10px; height:10px; background-color:lightgreen;"></span> 10 to 25	<span style="display:inline-block; width:10px; height:10px; background-color:blue;"></span> 75 to 90
<span style="display:inline-block; width:10px; height:10px; background-color:lightblue;"></span> 25 to 50	<span style="display:inline-block; width:10px; height:10px; background-color:darkblue;"></span> 90 to 100

Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



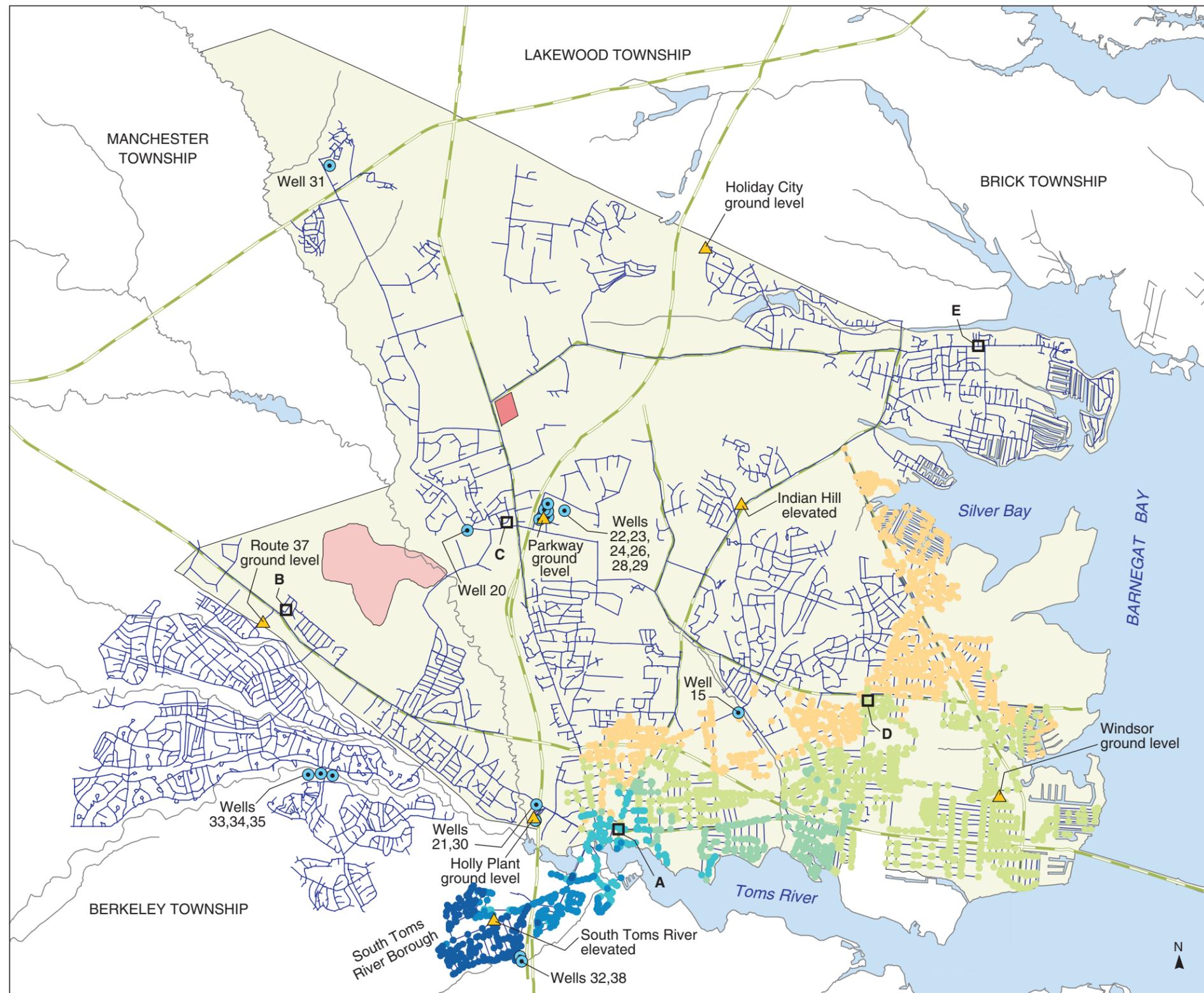
**PLATE 106. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE BROOKSIDE WELL (15) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, JULY 1988 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



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

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.



**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:red; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:yellow; border:1px solid black;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom:1px solid grey;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue; border:1px solid black;"></span> Water body	<span style="display:inline-block; width:15px; height:15px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:15px; height:15px; border:1px solid yellow; border-radius:50%;"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

Percentage of water contributed by South Toms River wells (32, 38), 24-hour average

<span style="display:inline-block; width:15px; height:15px; background-color:orange; border-radius:50%;"></span> 1 to 10	<span style="display:inline-block; width:15px; height:15px; background-color:teal; border-radius:50%;"></span> 50 to 75
<span style="display:inline-block; width:15px; height:15px; background-color:lightgreen; border-radius:50%;"></span> 10 to 25	<span style="display:inline-block; width:15px; height:15px; background-color:blue; border-radius:50%;"></span> 75 to 90
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue; border-radius:50%;"></span> 25 to 50	<span style="display:inline-block; width:15px; height:15px; background-color:darkblue; border-radius:50%;"></span> 90 to 100

Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time

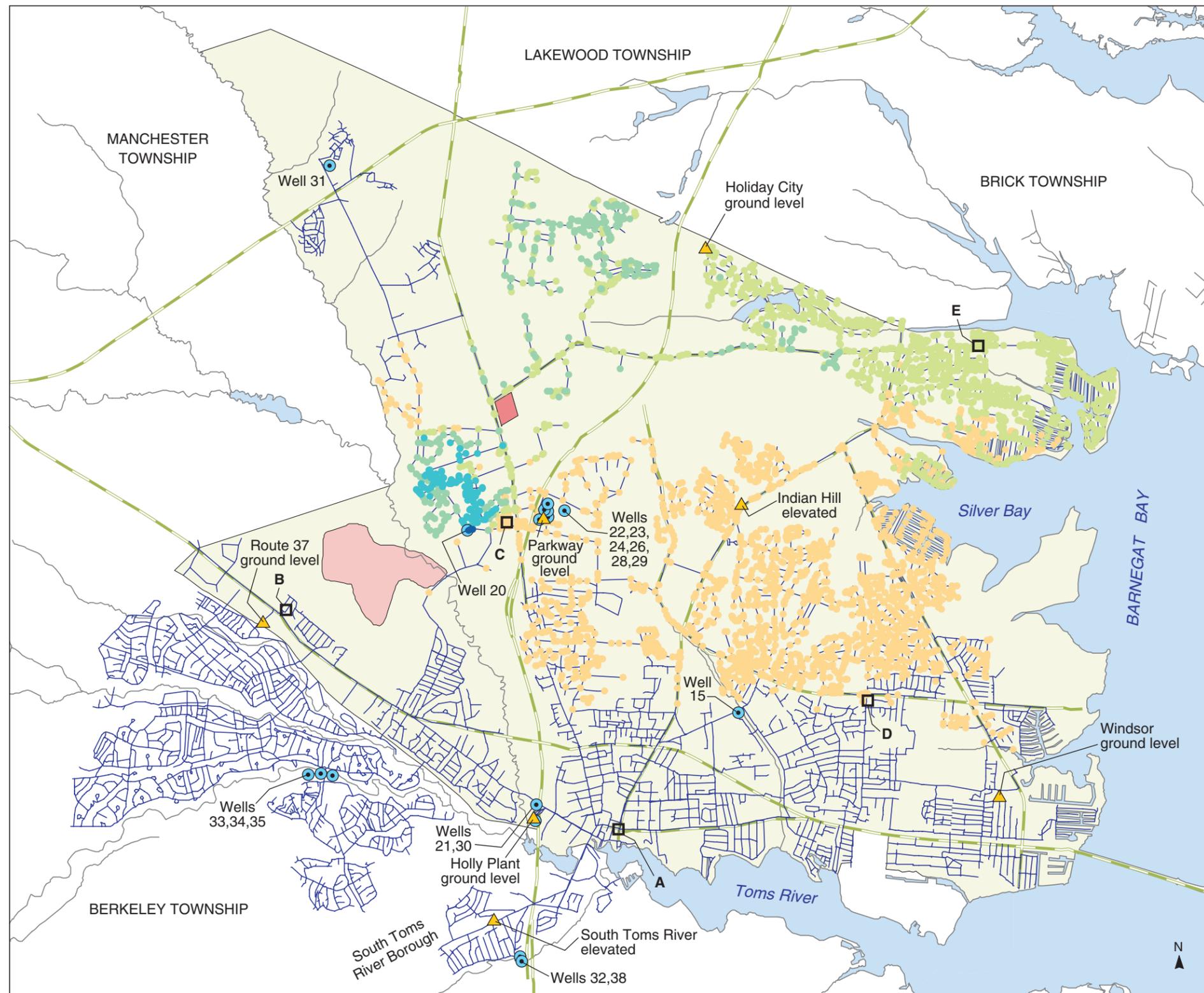


**Dover Township Area, New Jersey  
 Water-Distribution System Model  
 Historical Reconstruction Analysis**

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.

**PLATE 107. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE SOUTH TOMS RIVER WELLS (32, 38) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, JULY 1988 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:red; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; height:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; height:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:yellow; border:1px solid black;"></span> Dover Township	<span style="display:inline-block; width:15px; height:15px; border-bottom:1px solid grey;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue; border:1px solid black;"></span> Water body	<span style="display:inline-block; width:15px; height:15px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:15px; height:15px; border:1px solid black; transform: rotate(45deg);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

Percentage of water contributed by Indian Head well (20), 24-hour average

<span style="display:inline-block; width:10px; height:10px; background-color:orange; border-radius:50%;"></span> 1 to 10	<span style="display:inline-block; width:10px; height:10px; background-color:teal; border-radius:50%;"></span> 50 to 75
<span style="display:inline-block; width:10px; height:10px; background-color:lightgreen; border-radius:50%;"></span> 10 to 25	<span style="display:inline-block; width:10px; height:10px; background-color:blue; border-radius:50%;"></span> 75 to 90
<span style="display:inline-block; width:10px; height:10px; background-color:lightblue; border-radius:50%;"></span> 25 to 50	<span style="display:inline-block; width:10px; height:10px; background-color:darkblue; border-radius:50%;"></span> 90 to 100

Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time

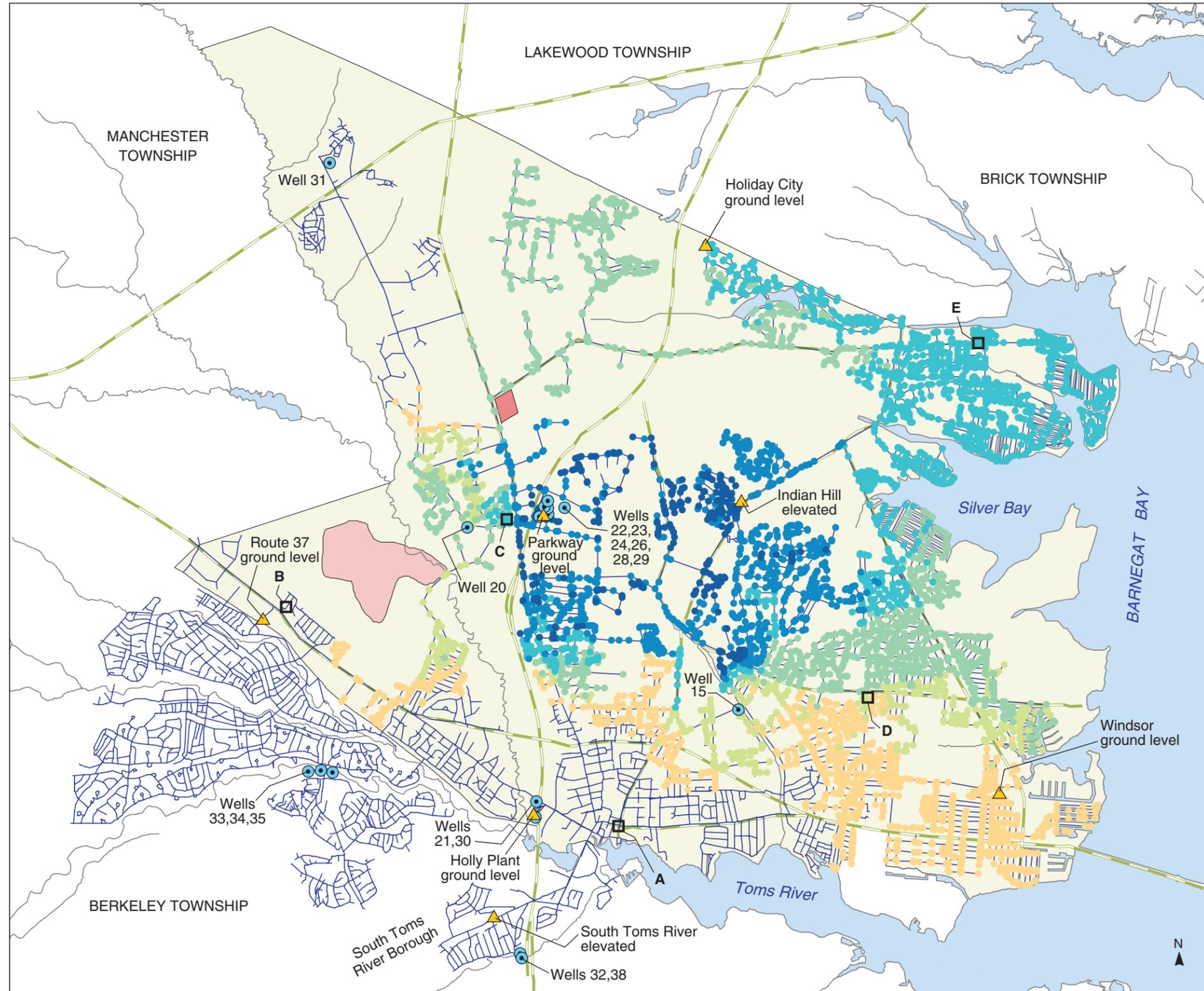


**Dover Township Area, New Jersey  
 Water-Distribution System Model  
 Historical Reconstruction Analysis**

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.

**PLATE 108. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE INDIAN HEAD WELL (20) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, JULY 1988 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:pink; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:yellow; border:1px solid black;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom:1px solid grey;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue; border:1px solid black;"></span> Water body	<span style="display:inline-block; width:10px; height:10px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:10px; height:10px; border:1px solid black; transform: rotate(45deg);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

Percentage of water contributed by Parkway wells (22, 23, 24, 26, 28, 29), 24-hour average

<span style="display:inline-block; width:10px; height:10px; background-color:orange;"></span> 1 to 10	<span style="display:inline-block; width:10px; height:10px; background-color:lightblue;"></span> 50 to 75
<span style="display:inline-block; width:10px; height:10px; background-color:lightgreen;"></span> 10 to 25	<span style="display:inline-block; width:10px; height:10px; background-color:blue;"></span> 75 to 90
<span style="display:inline-block; width:10px; height:10px; background-color:lightcyan;"></span> 25 to 50	<span style="display:inline-block; width:10px; height:10px; background-color:darkblue;"></span> 90 to 100

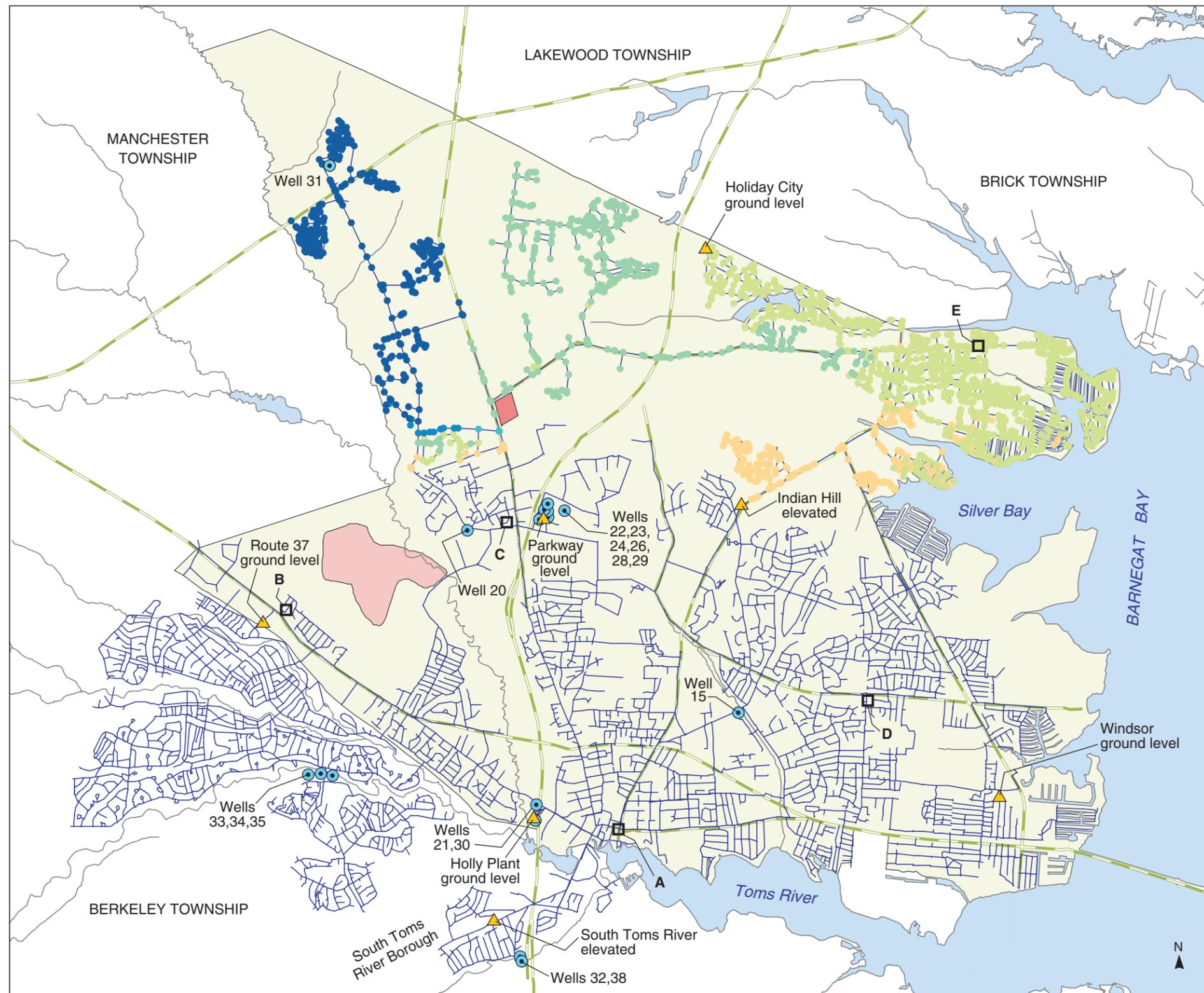
Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



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

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.

**PLATE 109. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE PARKWAY WELLS (22, 23, 24, 26, 28, 29) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, JULY 1988 CONDITIONS**  
 By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:lightpink; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:lightyellow; border:1px solid black;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom:1px solid grey;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue; border:1px solid black;"></span> Water body	<span style="display:inline-block; width:10px; height:10px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:10px; height:10px; border:1px solid black; transform: rotate(45deg);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

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

<span style="display:inline-block; width:10px; height:10px; background-color:orange;"></span> 1 to 10	<span style="display:inline-block; width:10px; height:10px; background-color:teal;"></span> 50 to 75
<span style="display:inline-block; width:10px; height:10px; background-color:lightgreen;"></span> 10 to 25	<span style="display:inline-block; width:10px; height:10px; background-color:blue;"></span> 75 to 90
<span style="display:inline-block; width:10px; height:10px; background-color:lightblue;"></span> 25 to 50	<span style="display:inline-block; width:10px; height:10px; background-color:darkblue;"></span> 90 to 100

Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time

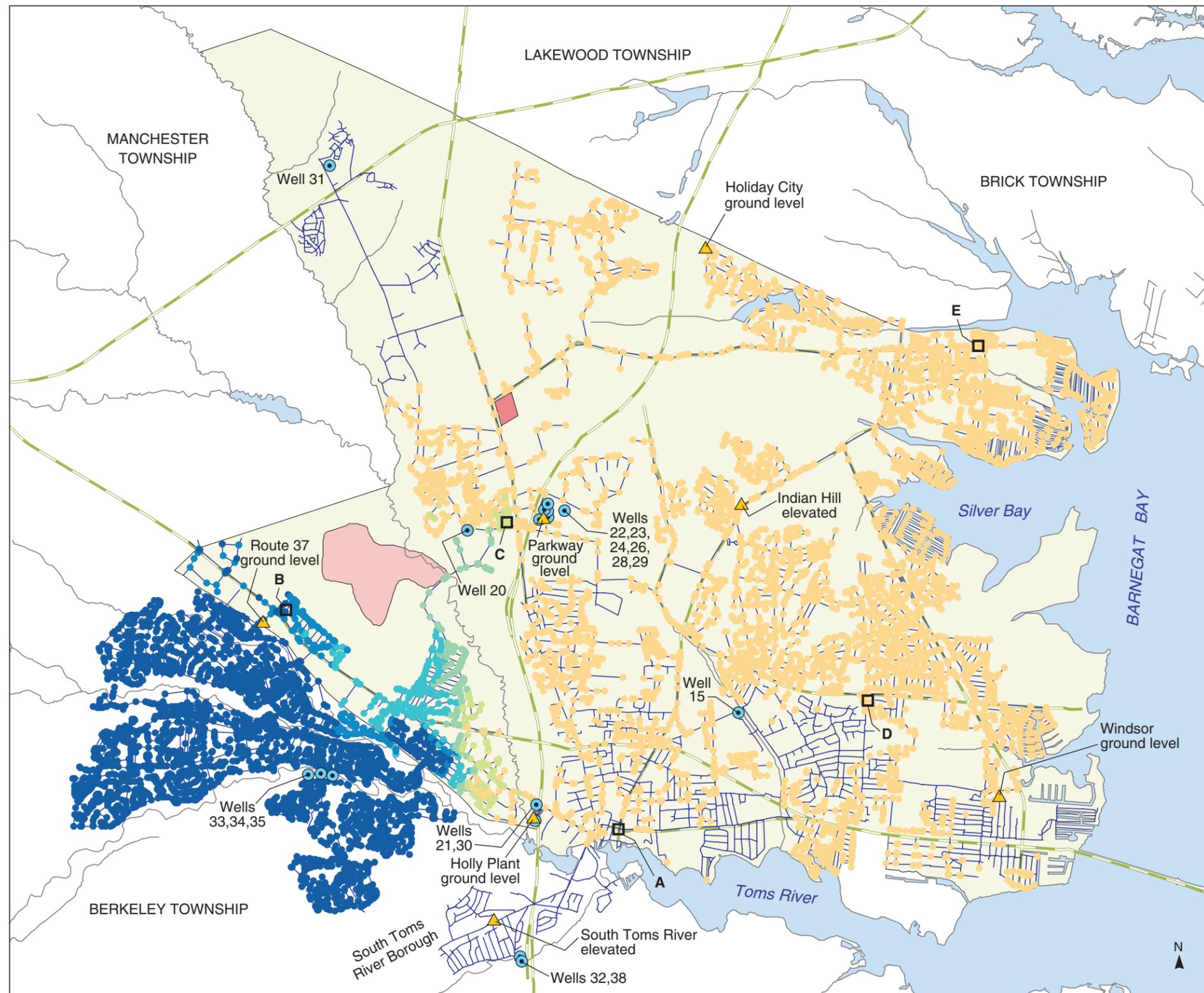


**Dover Township Area, New Jersey  
 Water-Distribution System Model  
 Historical Reconstruction Analysis**

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.

**PLATE 110. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE ROUTE 70 WELL (31) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, JULY 1988 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



**EXPLANATION**

	Reich Farm NPL Site		Water pipeline
	Ciba-Geigy NPL Site		Major road
	Dover Township		Hydrography
	Water body		Municipal well
			Storage tank

**E** Pipeline location and letter. Percent contribution is reported in text

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

	1 to 10		50 to 75
	10 to 25		75 to 90
	25 to 50		90 to 100

Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time

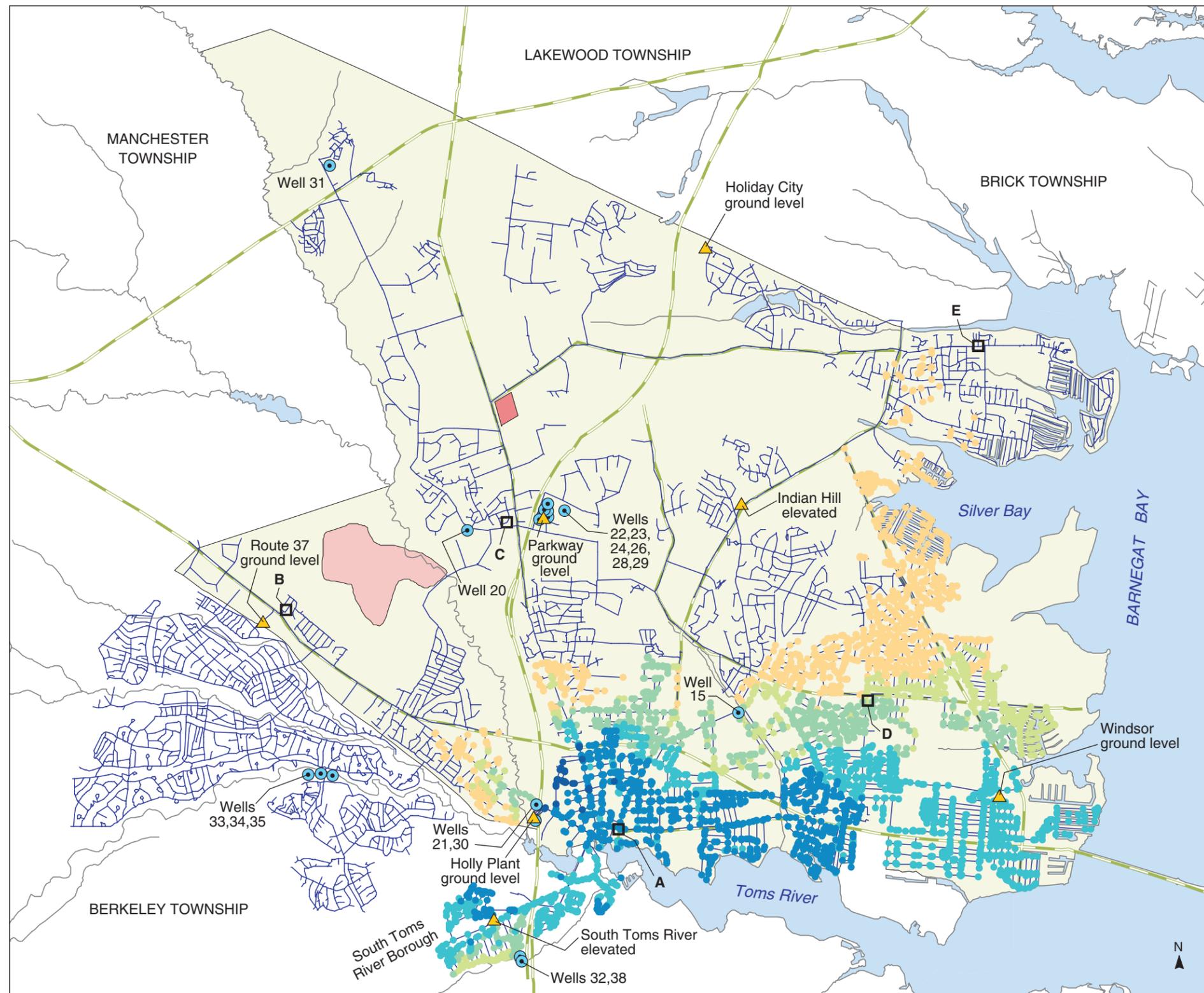


**Dover Township Area, New Jersey  
 Water-Distribution System Model  
 Historical Reconstruction Analysis**

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.

**PLATE 111. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE BERKELEY WELLS (33, 34, 35) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, JULY 1988 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:red; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:yellow;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom:1px solid grey;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue;"></span> Water body	<span style="display:inline-block; width:10px; height:10px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:10px; height:10px; background-color:yellow; clip-path: polygon(50% 0%, 61% 35%, 98% 35%, 68% 57%, 98% 57%, 79% 91%, 50% 70%, 21% 91%, 32% 57%, 2% 57%, 38% 35%, 1% 35%);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

Percentage of water contributed by Holly well (30), 24-hour average

<span style="display:inline-block; width:10px; height:10px; background-color:orange;"></span> 1 to 10	<span style="display:inline-block; width:10px; height:10px; background-color:teal;"></span> 50 to 75
<span style="display:inline-block; width:10px; height:10px; background-color:lightgreen;"></span> 10 to 25	<span style="display:inline-block; width:10px; height:10px; background-color:blue;"></span> 75 to 90
<span style="display:inline-block; width:10px; height:10px; background-color:lightblue;"></span> 25 to 50	<span style="display:inline-block; width:10px; height:10px; background-color:darkblue;"></span> 90 to 100

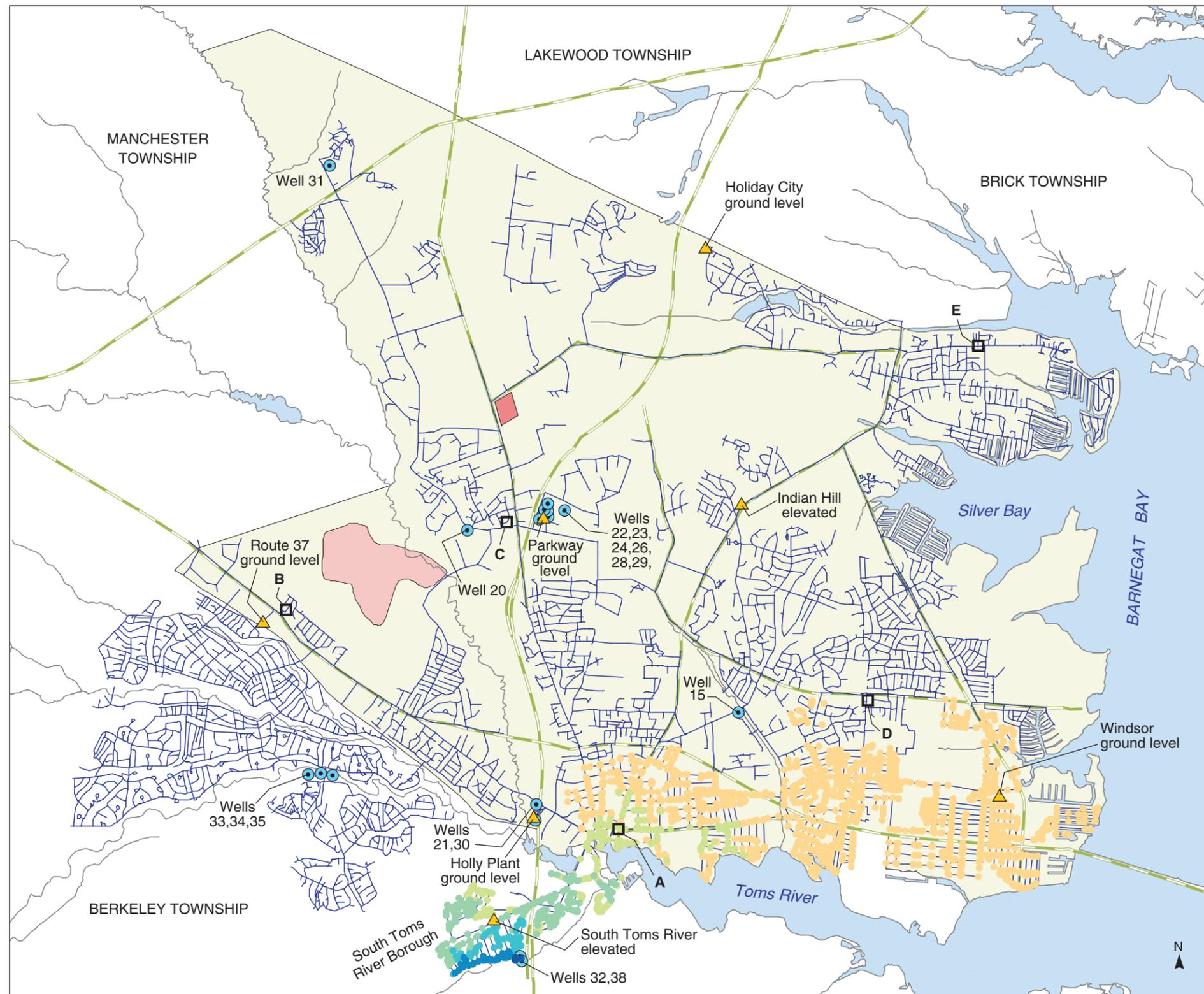
Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



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

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.

**PLATE 112. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE HOLLY WELL (30) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, OCTOBER 1988 CONDITIONS**  
 By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:red; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:yellow;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom:1px solid grey;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue;"></span> Water body	<span style="display:inline-block; width:10px; height:10px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:10px; height:10px; background-color:yellow; clip-path: polygon(50% 0%, 61% 35%, 98% 35%, 68% 57%, 98% 57%, 61% 80%, 50% 45%, 39% 80%, 2% 57%, 68% 57%);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

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

<span style="display:inline-block; width:10px; height:10px; background-color:orange;"></span> 1 to 10	<span style="display:inline-block; width:10px; height:10px; background-color:lightblue;"></span> 50 to 75
<span style="display:inline-block; width:10px; height:10px; background-color:lightgreen;"></span> 10 to 25	<span style="display:inline-block; width:10px; height:10px; background-color:blue;"></span> 75 to 90
<span style="display:inline-block; width:10px; height:10px; background-color:green;"></span> 25 to 50	<span style="display:inline-block; width:10px; height:10px; background-color:darkblue;"></span> 90 to 100

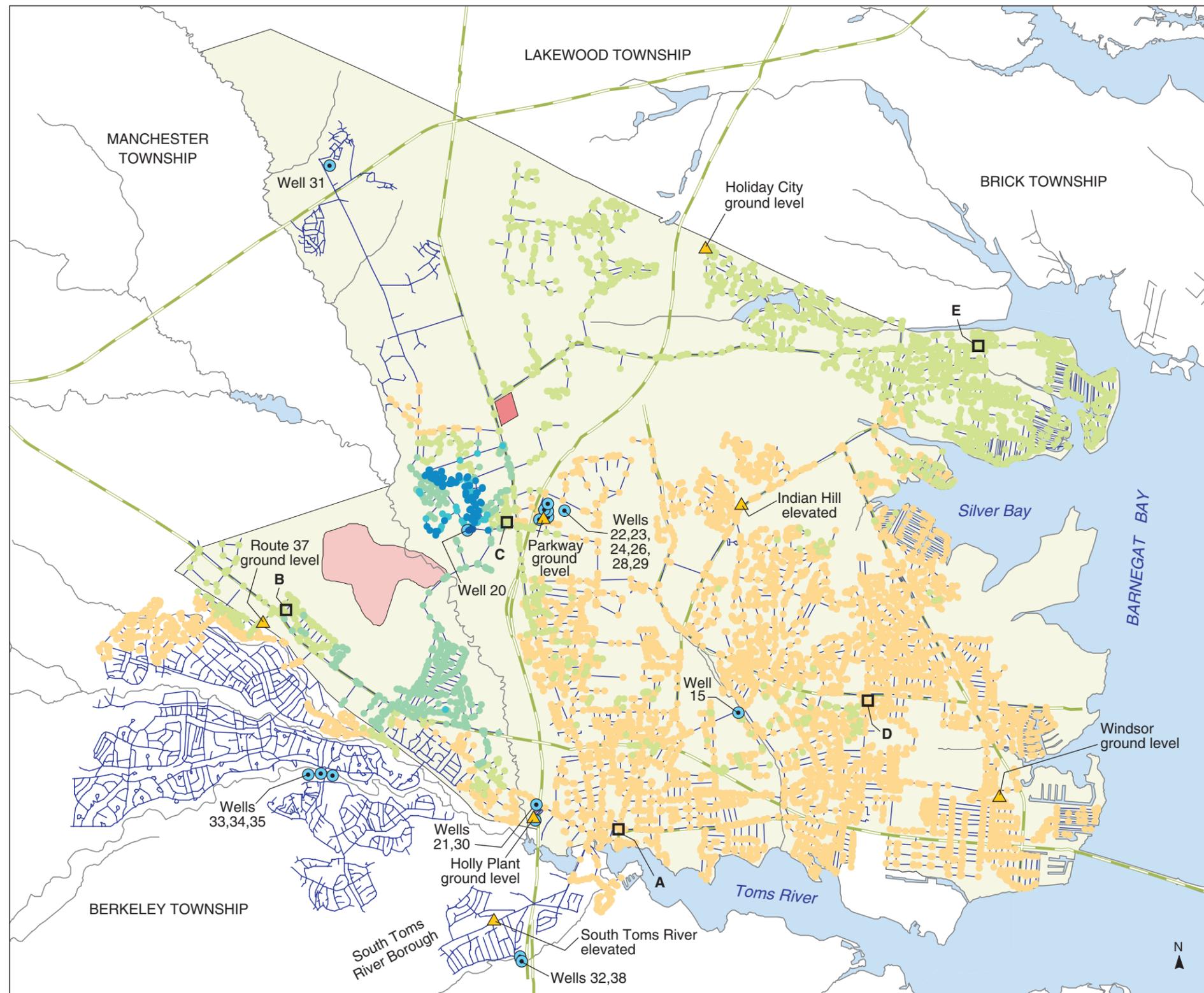
Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



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

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.

**PLATE 113. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE SOUTH TOMS RIVER WELL (32) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, OCTOBER 1988 CONDITIONS**  
 By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



**EXPLANATION**

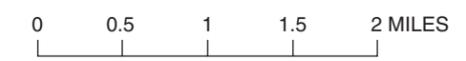
<span style="display:inline-block; width:15px; height:15px; background-color:red; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:yellow;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom:1px solid grey;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue;"></span> Water body	<span style="display:inline-block; width:15px; height:15px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:15px; height:15px; border:1px solid black; transform: rotate(45deg);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

Percentage of water contributed by Indian Head well (20), 24-hour average

<span style="display:inline-block; width:15px; height:15px; background-color:orange;"></span> 1 to 10	<span style="display:inline-block; width:15px; height:15px; background-color:teal;"></span> 50 to 75
<span style="display:inline-block; width:15px; height:15px; background-color:lightgreen;"></span> 10 to 25	<span style="display:inline-block; width:15px; height:15px; background-color:blue;"></span> 75 to 90
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue;"></span> 25 to 50	<span style="display:inline-block; width:15px; height:15px; background-color:darkblue;"></span> 90 to 100

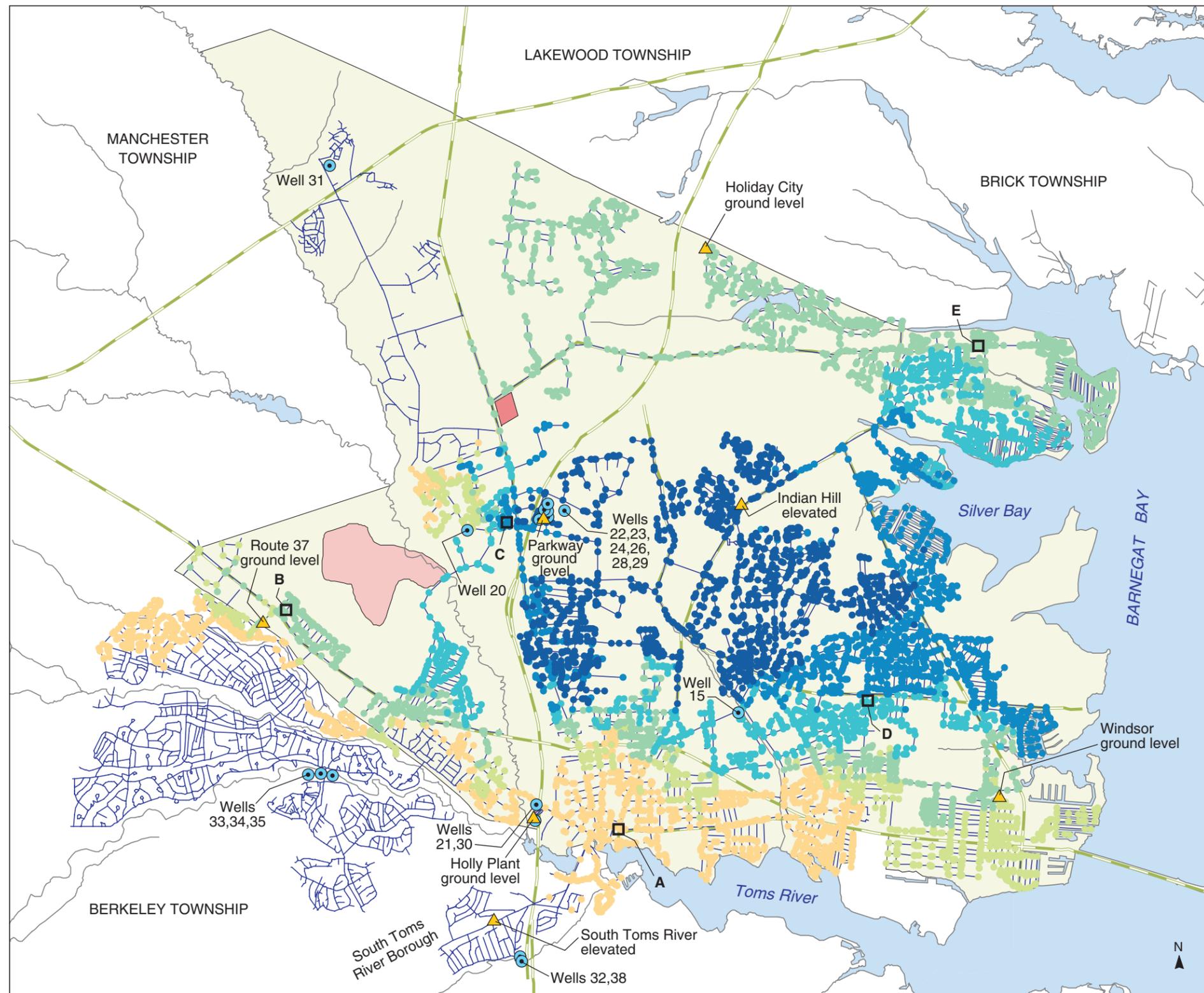
Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



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

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.

**PLATE 114. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE INDIAN HEAD WELL (20) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, OCTOBER 1988 CONDITIONS**  
 By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



- EXPLANATION**
- Reich Farm NPL Site
  - Ciba-Geigy NPL Site
  - Dover Township
  - Water body
  - Water pipeline
  - Major road
  - Hydrography
  - Municipal well
  - ▲ Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

Percentage of water contributed by Parkway wells (22, 23, 24, 26, 28, 29), 24-hour average

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

Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



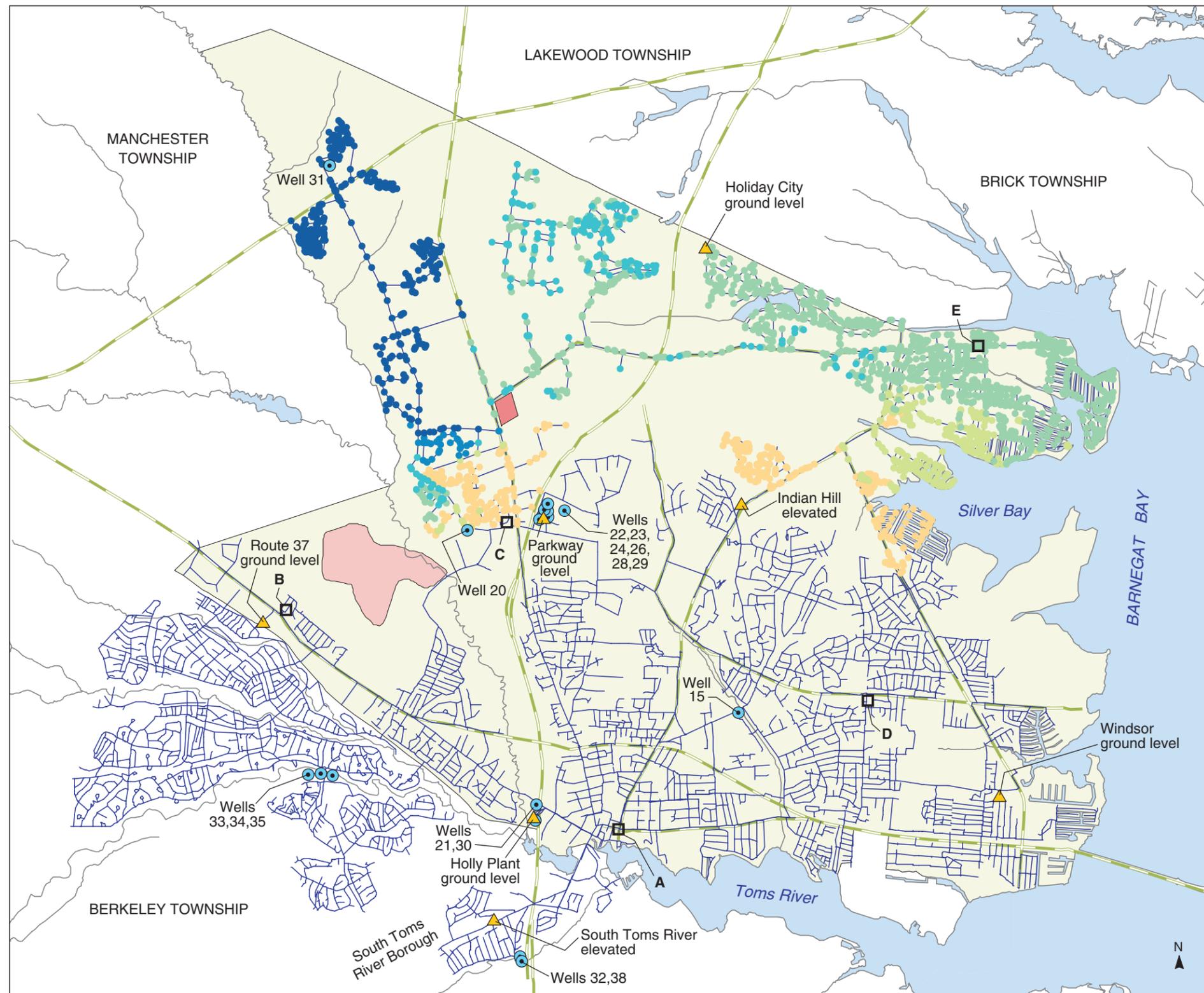
**PLATE 115. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE PARKWAY WELLS (22, 23, 24, 26, 28, 29) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, OCTOBER 1988 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



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

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.



**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:pink; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:yellow;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom:1px solid gray;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue;"></span> Water body	<span style="display:inline-block; width:10px; height:10px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:10px; height:10px; border:1px solid black; transform: rotate(45deg);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

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

<span style="display:inline-block; width:10px; height:10px; background-color:orange;"></span> 1 to 10	<span style="display:inline-block; width:10px; height:10px; background-color:lightcyan;"></span> 50 to 75
<span style="display:inline-block; width:10px; height:10px; background-color:lightgreen;"></span> 10 to 25	<span style="display:inline-block; width:10px; height:10px; background-color:blue;"></span> 75 to 90
<span style="display:inline-block; width:10px; height:10px; background-color:teal;"></span> 25 to 50	<span style="display:inline-block; width:10px; height:10px; background-color:darkblue;"></span> 90 to 100

Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time

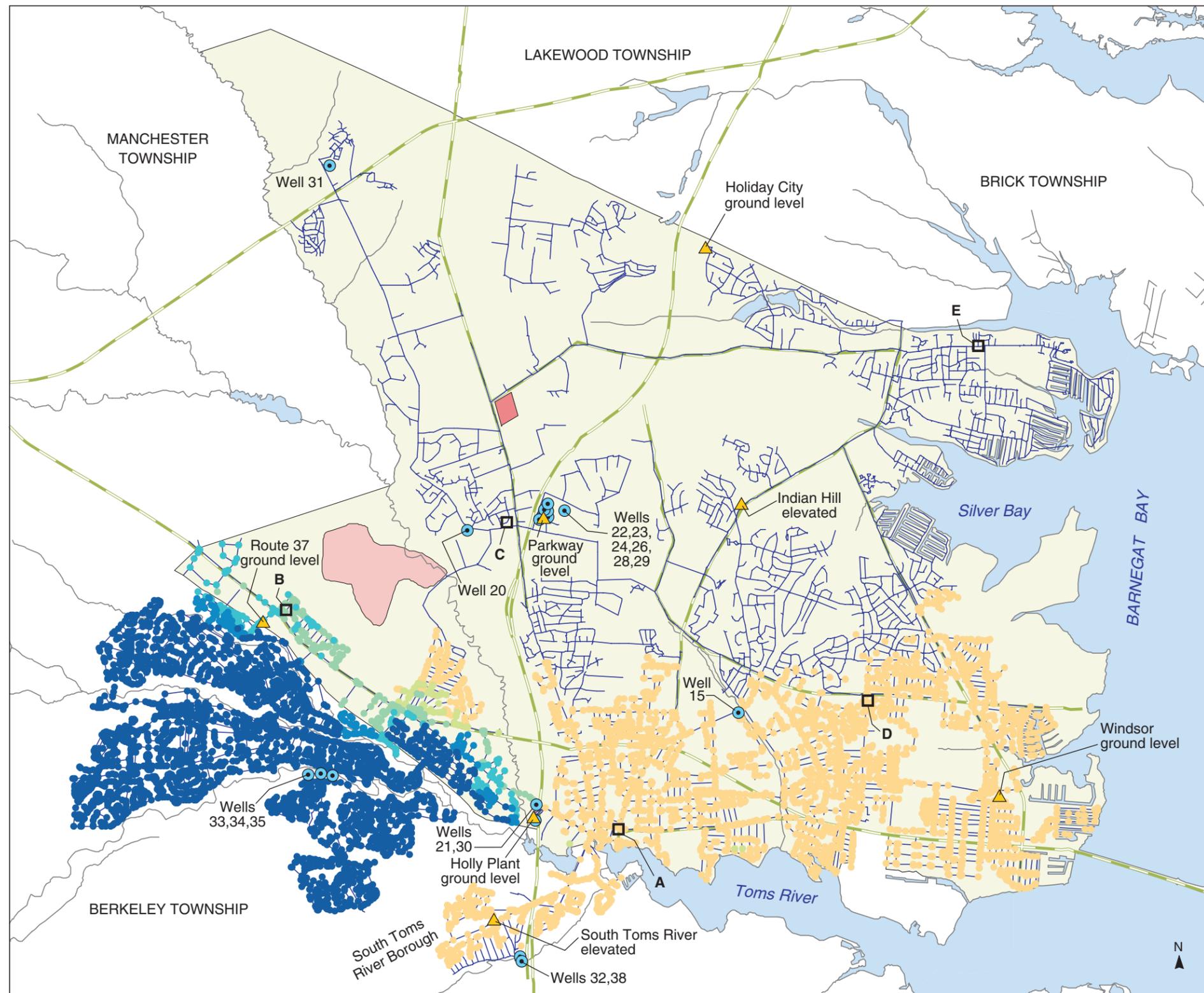


**Dover Township Area, New Jersey  
 Water-Distribution System Model  
 Historical Reconstruction Analysis**

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.

**PLATE 116. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE ROUTE 70 WELL (31) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, OCTOBER 1988 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color: #e67e22; border: 1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom: 1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color: #f08080; border: 1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom: 1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color: #fff9c4; border: 1px solid black;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom: 1px solid gray;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color: #add8e6; border: 1px solid black;"></span> Water body	<span style="display:inline-block; width:10px; height:10px; border: 1px solid blue; border-radius: 50%;"></span> Municipal well
	<span style="display:inline-block; width:10px; height:10px; background-color: #ffc107; border: 1px solid black; clip-path: polygon(50% 0%, 61% 35%, 98% 35%, 68% 57%, 79% 91%, 50% 70%, 21% 91%, 32% 57%, 2% 35%, 39% 35%);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

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

<span style="display:inline-block; width:10px; height:10px; background-color: #ffc107; border-radius: 50%;"></span> 1 to 10	<span style="display:inline-block; width:10px; height:10px; background-color: #42a5f5; border-radius: 50%;"></span> 50 to 75
<span style="display:inline-block; width:10px; height:10px; background-color: #9ccc65; border-radius: 50%;"></span> 10 to 25	<span style="display:inline-block; width:10px; height:10px; background-color: #00bcd4; border-radius: 50%;"></span> 75 to 90
<span style="display:inline-block; width:10px; height:10px; background-color: #4db6ac; border-radius: 50%;"></span> 25 to 50	<span style="display:inline-block; width:10px; height:10px; background-color: #004d40; border-radius: 50%;"></span> 90 to 100

Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



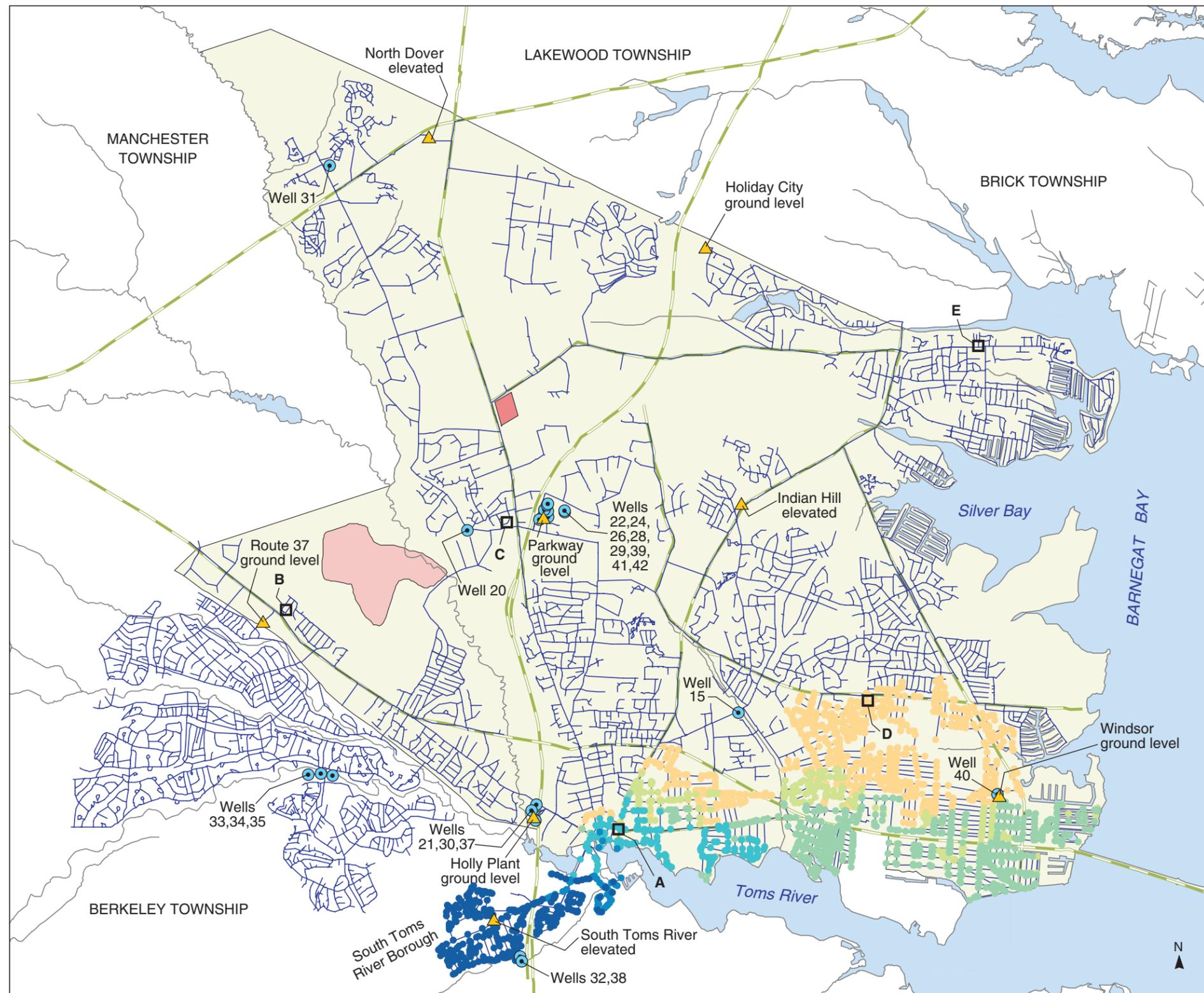
**PLATE 117. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE BERKELEY WELLS (33, 34, 35) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, OCTOBER 1988 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



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

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**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:lightpink; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:lightyellow; border:1px solid black;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom:1px solid grey;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue; border:1px solid black;"></span> Water body	<span style="display:inline-block; width:15px; height:15px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:15px; height:15px; border:1px solid black; transform: rotate(45deg);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

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

<span style="display:inline-block; width:10px; height:10px; background-color:orange;"></span> 1 to 10	<span style="display:inline-block; width:10px; height:10px; background-color:lightcyan;"></span> 50 to 75
<span style="display:inline-block; width:10px; height:10px; background-color:lightgreen;"></span> 10 to 25	<span style="display:inline-block; width:10px; height:10px; background-color:teal;"></span> 75 to 90
<span style="display:inline-block; width:10px; height:10px; background-color:lightblue;"></span> 25 to 50	<span style="display:inline-block; width:10px; height:10px; background-color:darkblue;"></span> 90 to 100

Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time

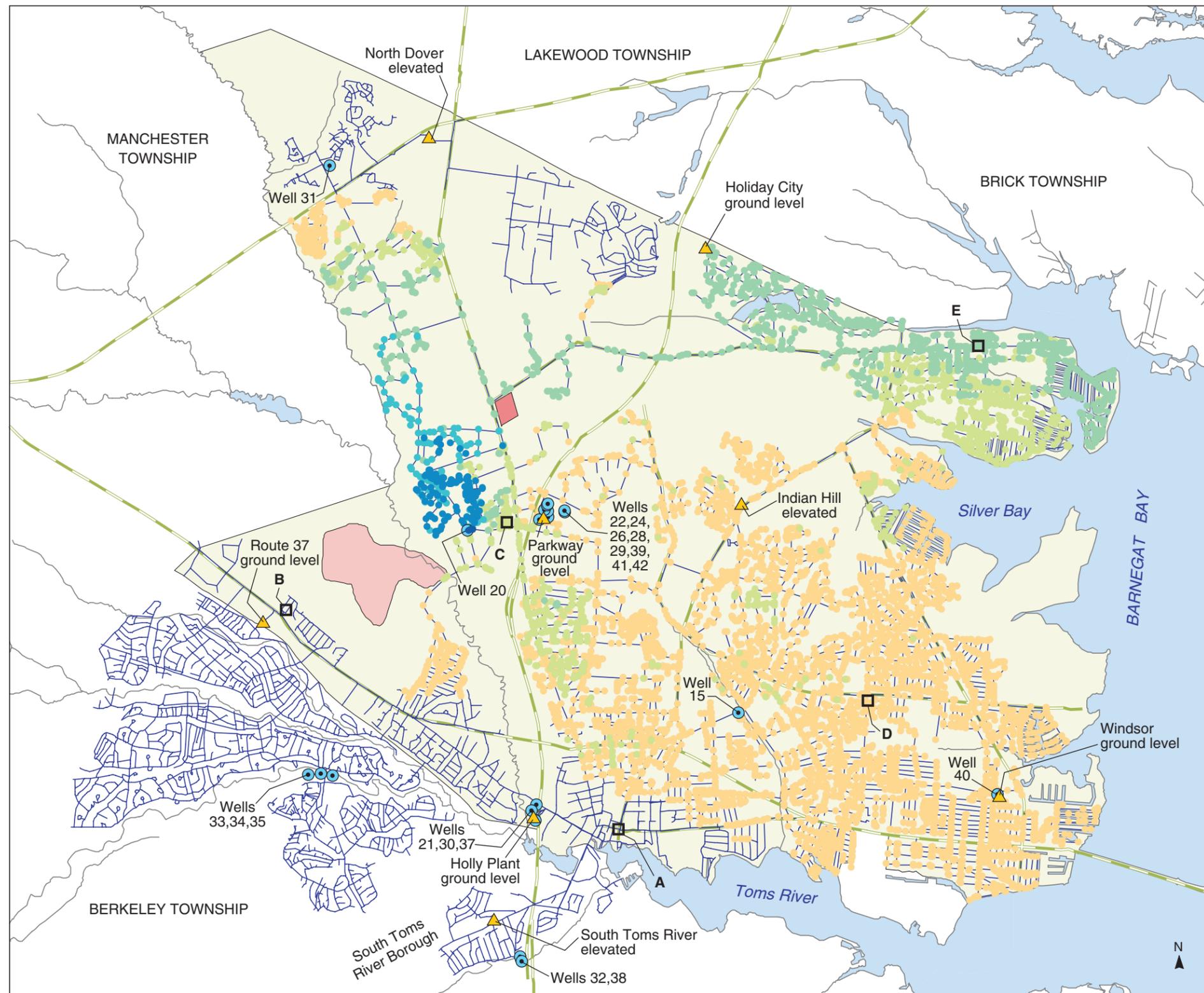


**Dover Township Area, New Jersey  
 Water-Distribution System Model  
 Historical Reconstruction Analysis**

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.

**PLATE 118. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE SOUTH TOMS RIVER WELL (32) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, FEBRUARY 1995 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:lightpink; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:lightyellow; border:1px solid black;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom:1px solid grey;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue; border:1px solid black;"></span> Water body	<span style="display:inline-block; width:15px; height:15px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:15px; height:15px; border:1px solid yellow; border-radius:50%;"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

Percentage of water contributed by Indian Head well (20), 24-hour average

<span style="display:inline-block; width:15px; height:15px; background-color:orange;"></span> 1 to 10	<span style="display:inline-block; width:15px; height:15px; background-color:teal;"></span> 50 to 75
<span style="display:inline-block; width:15px; height:15px; background-color:lightgreen;"></span> 10 to 25	<span style="display:inline-block; width:15px; height:15px; background-color:blue;"></span> 75 to 90
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue;"></span> 25 to 50	<span style="display:inline-block; width:15px; height:15px; background-color:darkblue;"></span> 90 to 100

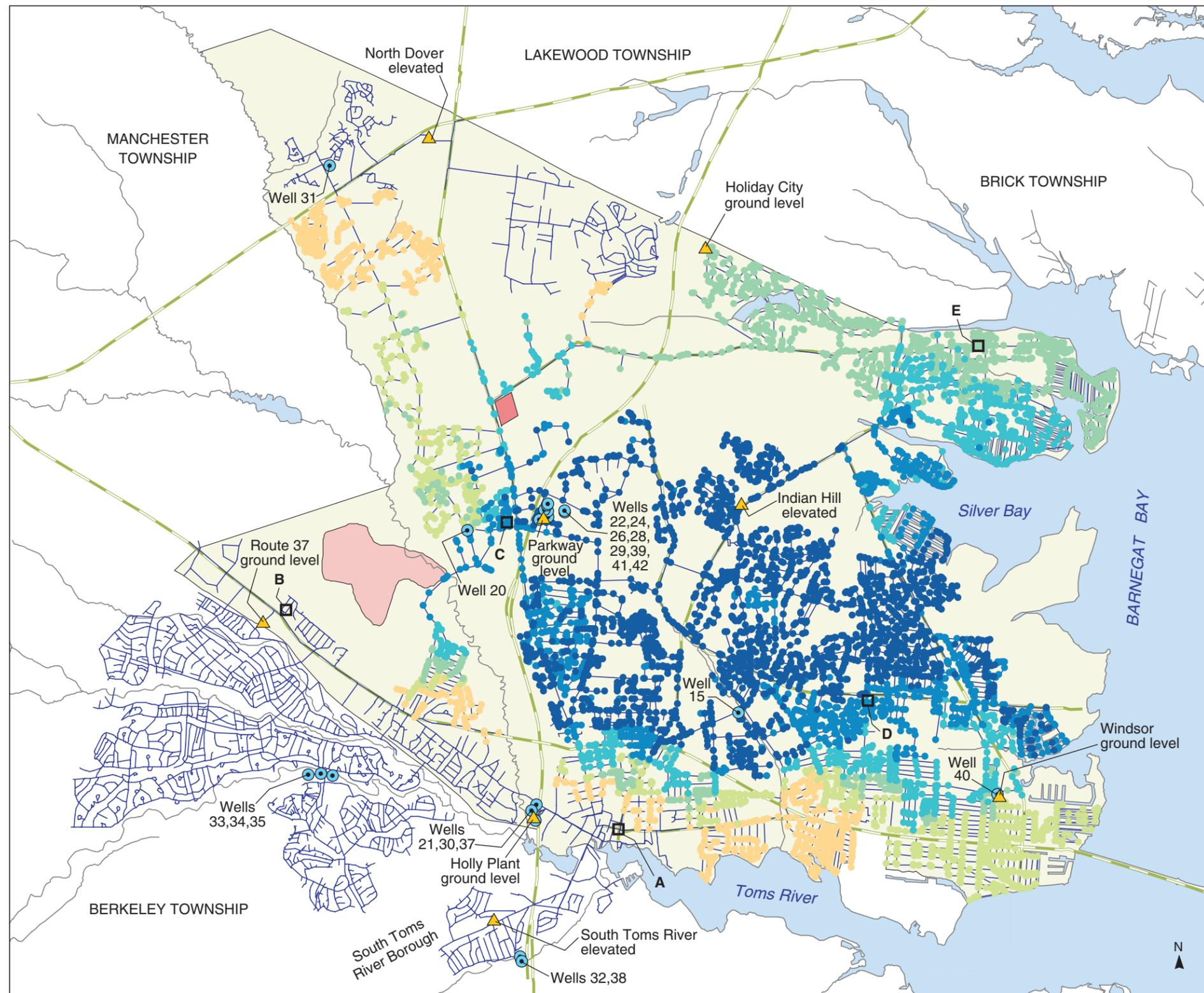
Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



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

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.

**PLATE 119. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE INDIAN HEAD WELL (20) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, FEBRUARY 1995 CONDITIONS**  
 By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



**EXPLANATION**

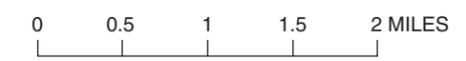
<span style="display:inline-block; width:15px; height:15px; background-color:red; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:yellow;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom:1px solid grey;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue;"></span> Water body	<span style="display:inline-block; width:15px; height:15px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:15px; height:15px; border:1px solid black; transform: rotate(45deg);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

Percentage of water contributed by Parkway wells (22, 24, 28, 29, 42), 24-hour average

<span style="display:inline-block; width:15px; height:15px; background-color:orange;"></span> 1 to 10	<span style="display:inline-block; width:15px; height:15px; background-color:teal;"></span> 50 to 75
<span style="display:inline-block; width:15px; height:15px; background-color:lightgreen;"></span> 10 to 25	<span style="display:inline-block; width:15px; height:15px; background-color:blue;"></span> 75 to 90
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue;"></span> 25 to 50	<span style="display:inline-block; width:15px; height:15px; background-color:darkblue;"></span> 90 to 100

Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



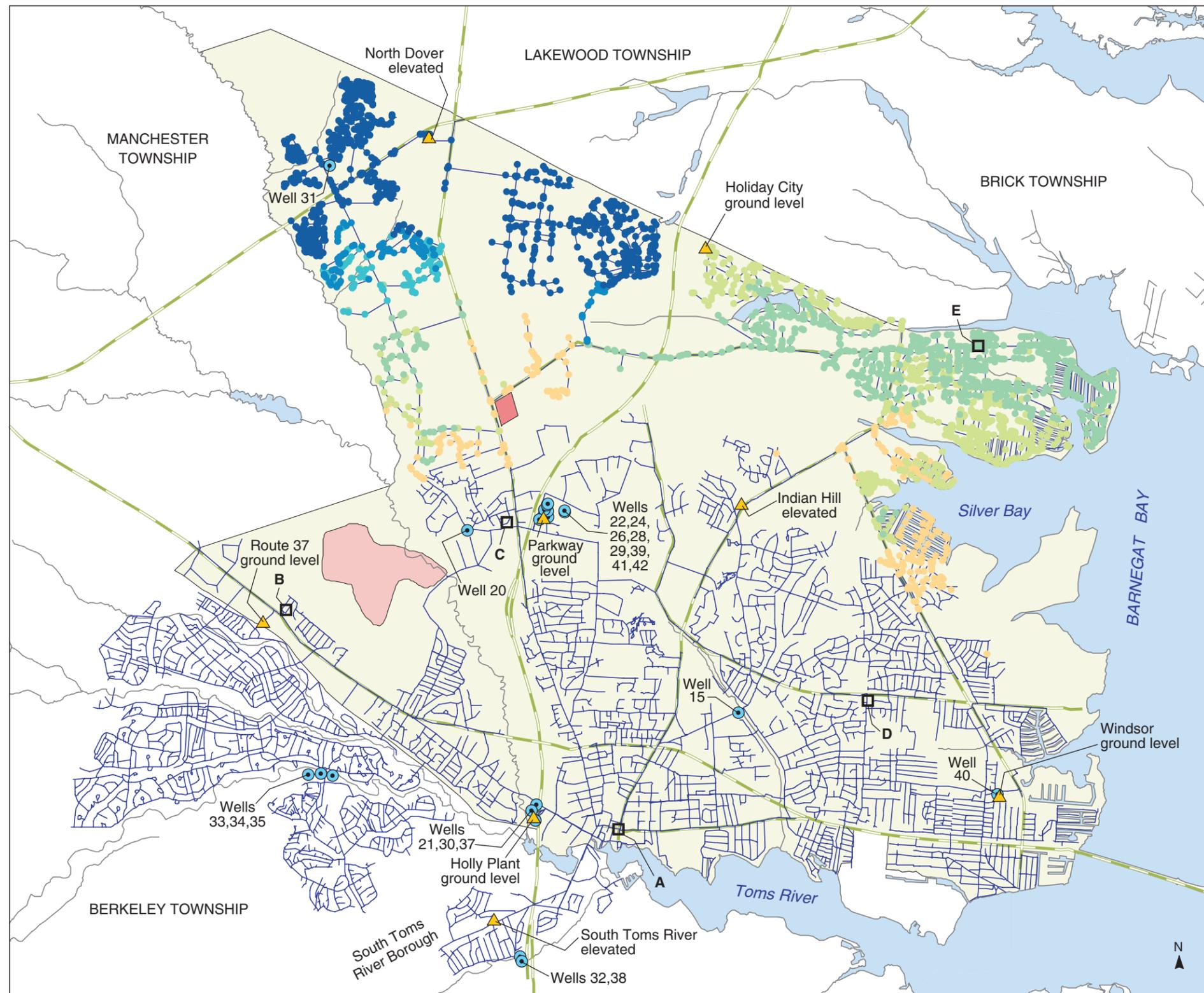
**PLATE 120. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE PARKWAY WELLS (22, 24, 28, 29, 42) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, FEBRUARY 1995 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



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

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.



**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:pink; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:yellow;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom:1px solid grey;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue;"></span> Water body	<span style="display:inline-block; width:10px; height:10px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:10px; height:10px; border:1px solid black; transform: rotate(45deg);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

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

<span style="display:inline-block; width:10px; height:10px; background-color:orange;"></span> 1 to 10	<span style="display:inline-block; width:10px; height:10px; background-color:lightcyan;"></span> 50 to 75
<span style="display:inline-block; width:10px; height:10px; background-color:lightgreen;"></span> 10 to 25	<span style="display:inline-block; width:10px; height:10px; background-color:teal;"></span> 75 to 90
<span style="display:inline-block; width:10px; height:10px; background-color:lightblue;"></span> 25 to 50	<span style="display:inline-block; width:10px; height:10px; background-color:blue;"></span> 90 to 100

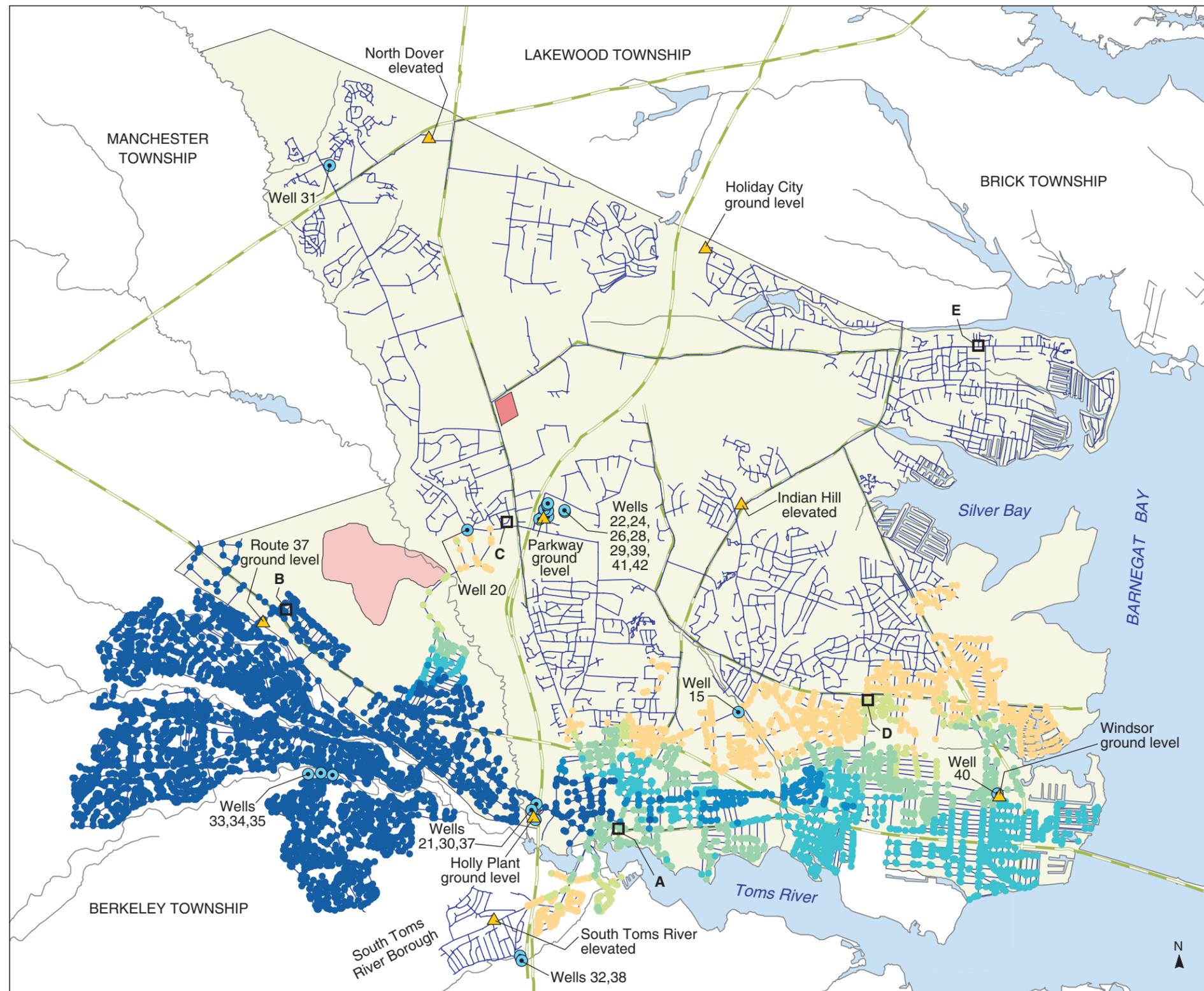
Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



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

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.

**PLATE 121. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE ROUTE 70 WELL (31) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, FEBRUARY 1995 CONDITIONS**  
 By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:red; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:yellow;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom:1px solid grey;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue;"></span> Water body	<span style="display:inline-block; width:10px; height:10px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:10px; height:10px; border:1px solid black; transform: rotate(45deg);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

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

<span style="display:inline-block; width:10px; height:10px; background-color:orange;"></span> 1 to 10	<span style="display:inline-block; width:10px; height:10px; background-color:teal;"></span> 50 to 75
<span style="display:inline-block; width:10px; height:10px; background-color:lightgreen;"></span> 10 to 25	<span style="display:inline-block; width:10px; height:10px; background-color:blue;"></span> 75 to 90
<span style="display:inline-block; width:10px; height:10px; background-color:lightblue;"></span> 25 to 50	<span style="display:inline-block; width:10px; height:10px; background-color:darkblue;"></span> 90 to 100

Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time

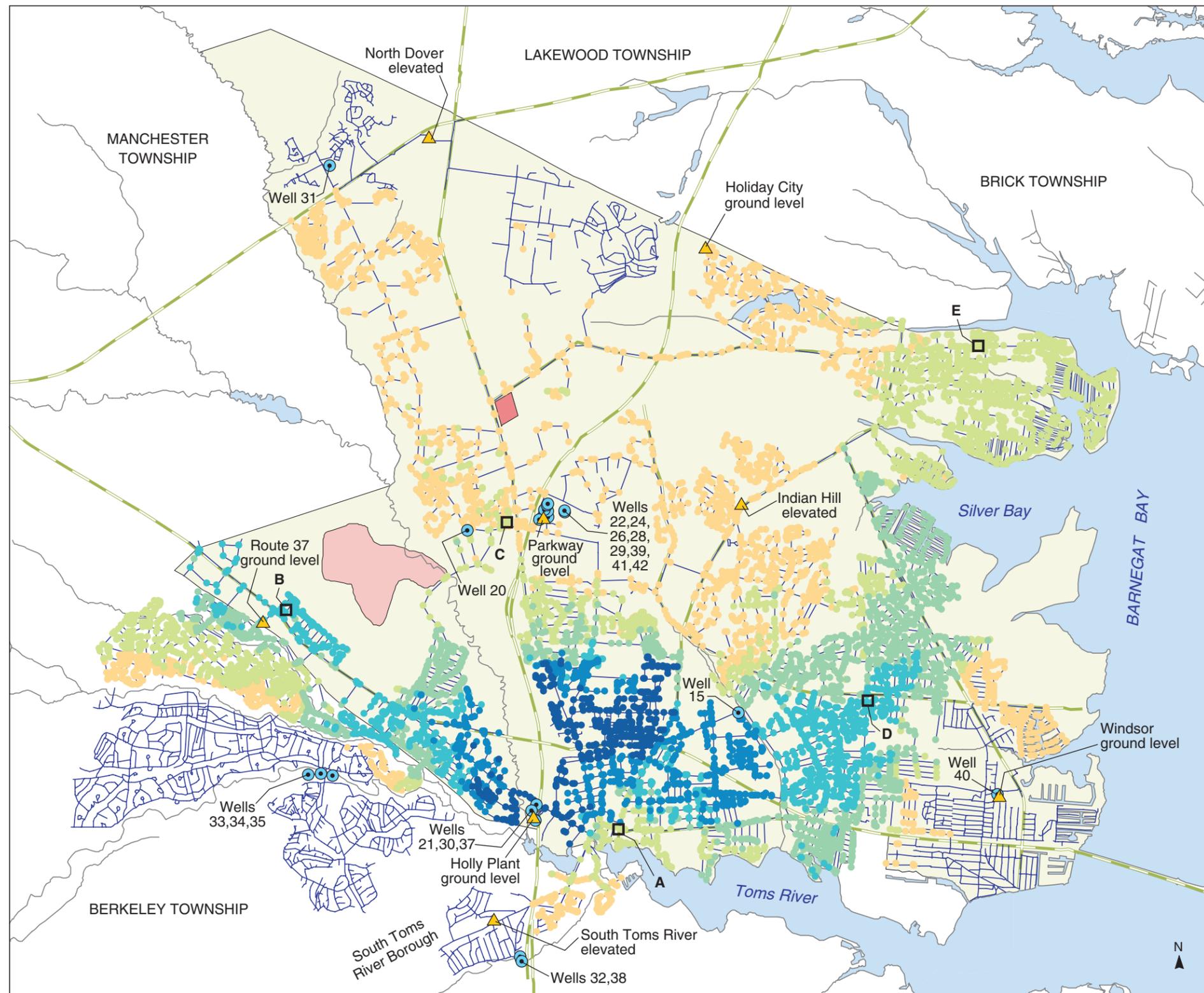


**PLATE 122. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE BERKELEY WELLS (33, 34, 35) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, FEBRUARY 1995 CONDITIONS**  
 By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



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

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.



**EXPLANATION**

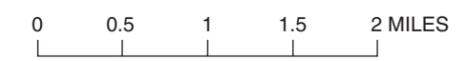
<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:lightpink; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:lightyellow; border:1px solid black;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom:1px solid gray;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue; border:1px solid black;"></span> Water body	<span style="display:inline-block; width:15px; height:15px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:15px; height:15px; border:1px solid black; transform: rotate(45deg);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

Percentage of water contributed by Holly wells (21, 30, 37), 24-hour average

<span style="display:inline-block; width:15px; height:15px; background-color:orange; border-radius:50%;"></span> 1 to 10	<span style="display:inline-block; width:15px; height:15px; background-color:teal; border-radius:50%;"></span> 50 to 75
<span style="display:inline-block; width:15px; height:15px; background-color:lightgreen; border-radius:50%;"></span> 10 to 25	<span style="display:inline-block; width:15px; height:15px; background-color:blue; border-radius:50%;"></span> 75 to 90
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue; border-radius:50%;"></span> 25 to 50	<span style="display:inline-block; width:15px; height:15px; background-color:darkblue; border-radius:50%;"></span> 90 to 100

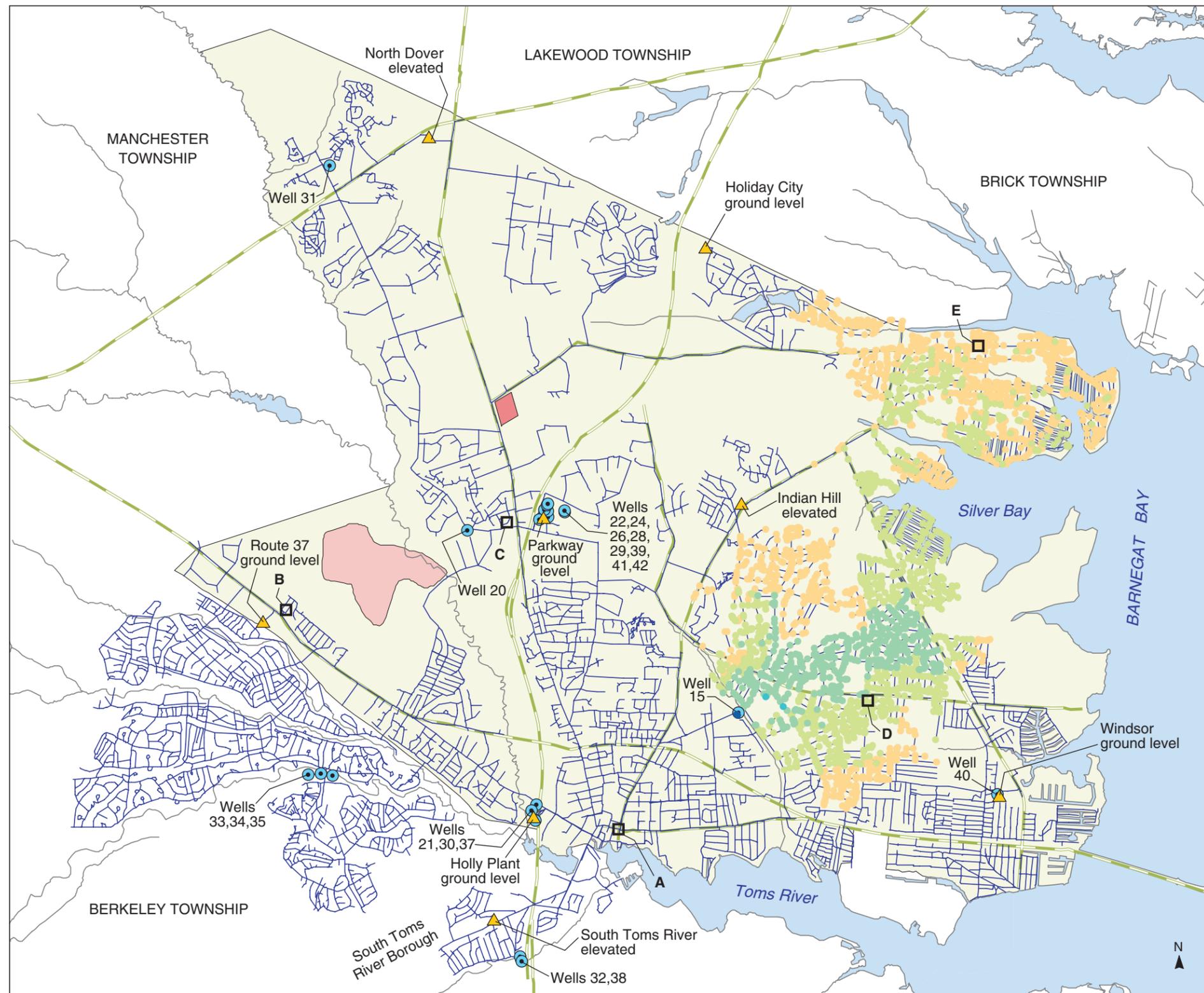
Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



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

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.

**PLATE 123. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE HOLLY WELLS (21, 30, 37) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, AUGUST 1995 CONDITIONS**  
 By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:red; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:yellow; border:1px solid black;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom:1px solid grey;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue; border:1px solid black;"></span> Water body	<span style="display:inline-block; width:15px; height:15px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:15px; height:15px; border:1px solid yellow; border-radius:50%;"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

Percentage of water contributed by Brookside well (15), 24-hour average

<span style="display:inline-block; width:10px; height:10px; background-color:orange;"></span> 1 to 10	<span style="display:inline-block; width:10px; height:10px; background-color:teal;"></span> 50 to 75
<span style="display:inline-block; width:10px; height:10px; background-color:lightgreen;"></span> 10 to 25	<span style="display:inline-block; width:10px; height:10px; background-color:blue;"></span> 75 to 90
<span style="display:inline-block; width:10px; height:10px; background-color:lightblue;"></span> 25 to 50	<span style="display:inline-block; width:10px; height:10px; background-color:darkblue;"></span> 90 to 100

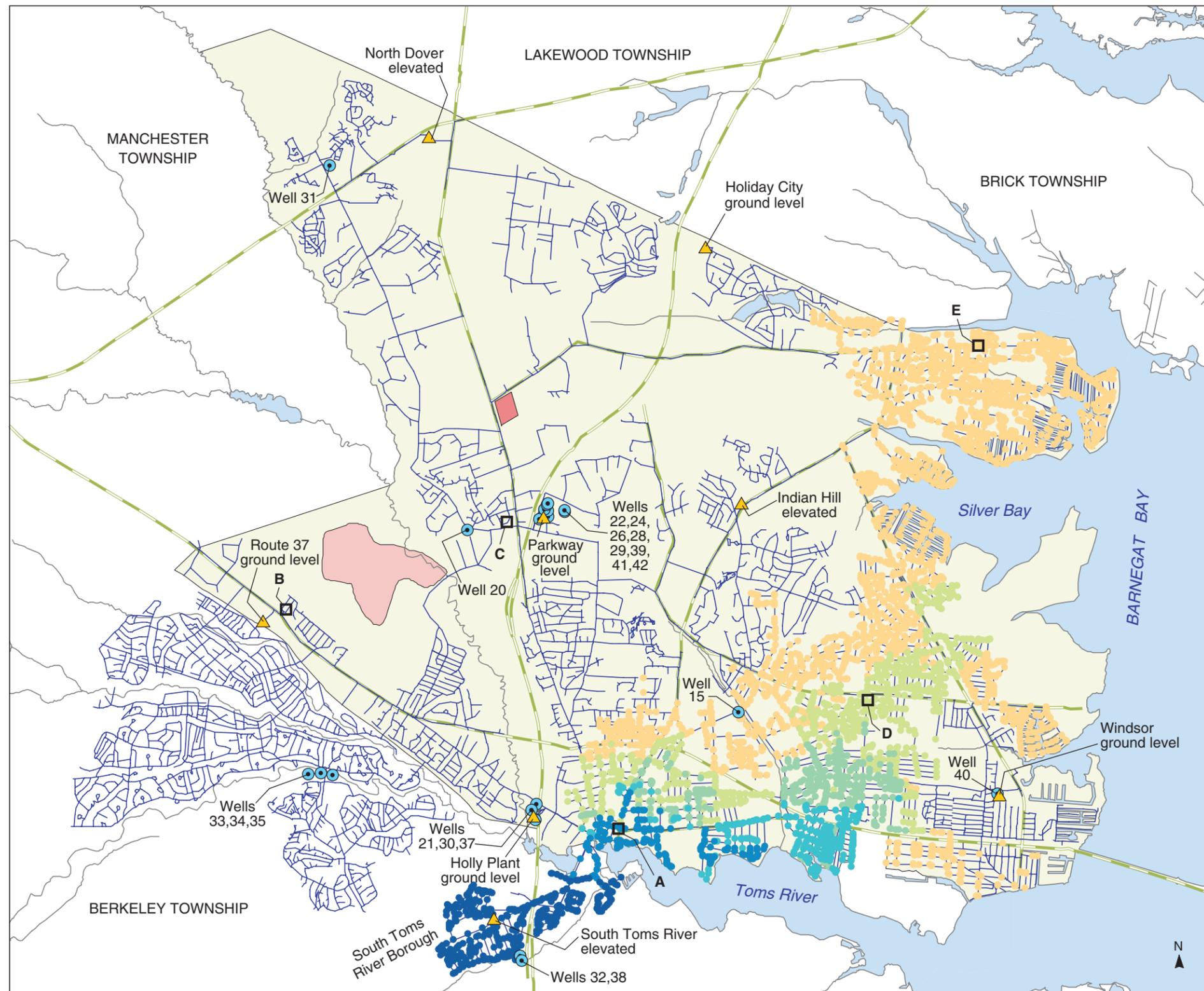
Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



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

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.

**PLATE 124. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE BROOKSIDE WELL (15) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, AUGUST 1995 CONDITIONS**  
 By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:lightpink; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:lightyellow; border:1px solid black;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom:1px solid gray;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue; border:1px solid black;"></span> Water body	<span style="display:inline-block; width:15px; height:15px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:15px; height:15px; border:1px solid black; transform: rotate(45deg);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

Percentage of water contributed by South Toms River wells (32, 38), 24-hour average

<span style="display:inline-block; width:10px; height:10px; background-color:orange;"></span> 1 to 10	<span style="display:inline-block; width:10px; height:10px; background-color:teal;"></span> 50 to 75
<span style="display:inline-block; width:10px; height:10px; background-color:lightgreen;"></span> 10 to 25	<span style="display:inline-block; width:10px; height:10px; background-color:blue;"></span> 75 to 90
<span style="display:inline-block; width:10px; height:10px; background-color:lightblue;"></span> 25 to 50	<span style="display:inline-block; width:10px; height:10px; background-color:darkblue;"></span> 90 to 100

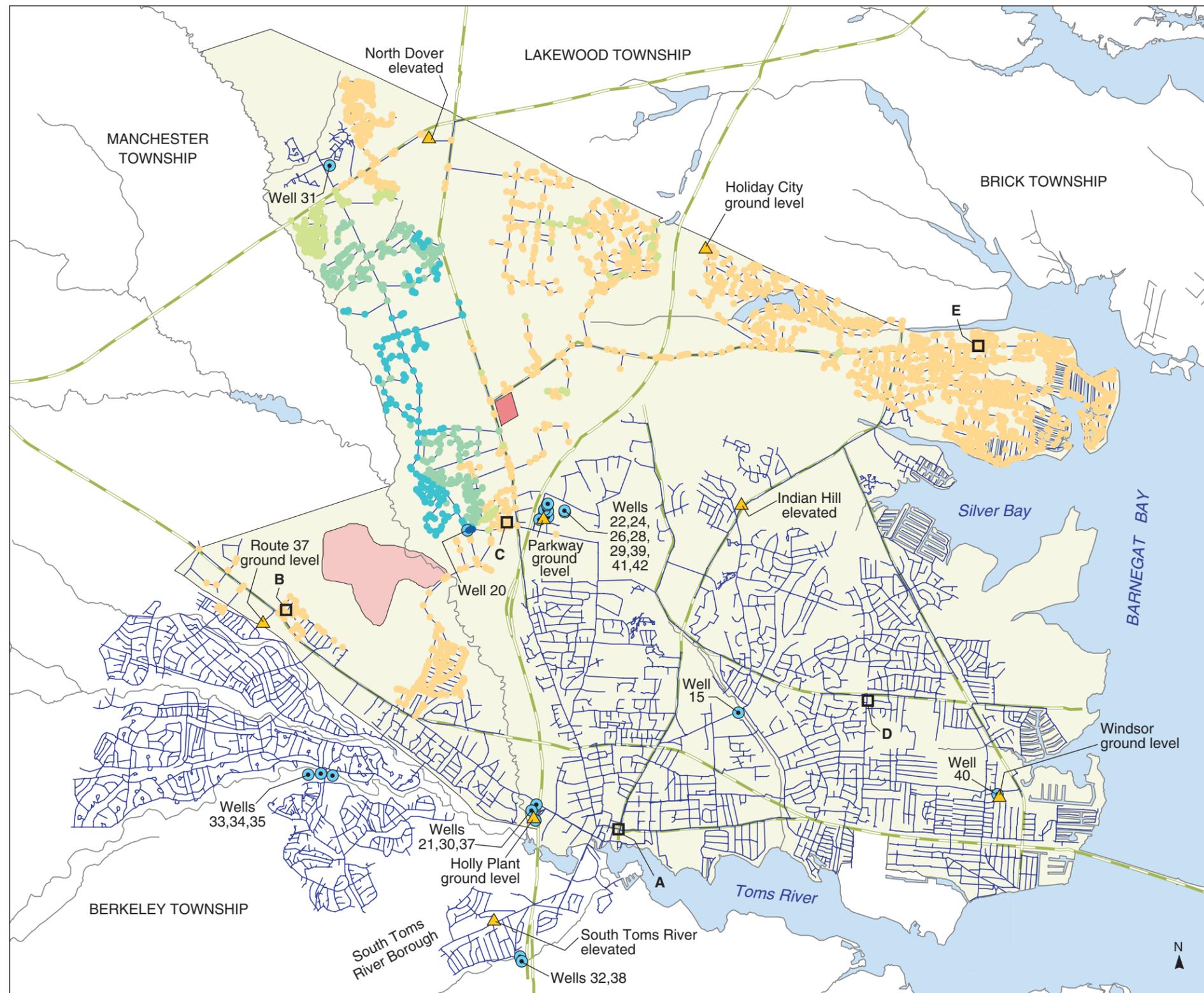
Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



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

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.

**PLATE 125. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE SOUTH TOMS RIVER WELLS (32, 38) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, AUGUST 1995 CONDITIONS**  
 By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



- EXPLANATION**
- Reich Farm NPL Site
  - Ciba-Geigy NPL Site
  - Dover Township
  - Water body
  - Water pipeline
  - Major road
  - Hydrography
  - Municipal well
  - Storage tank

**E** □ Pipeline location and letter. Percent contribution is reported in text

Percentage of water contributed by Indian Head well (20), 24-hour average

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

Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time

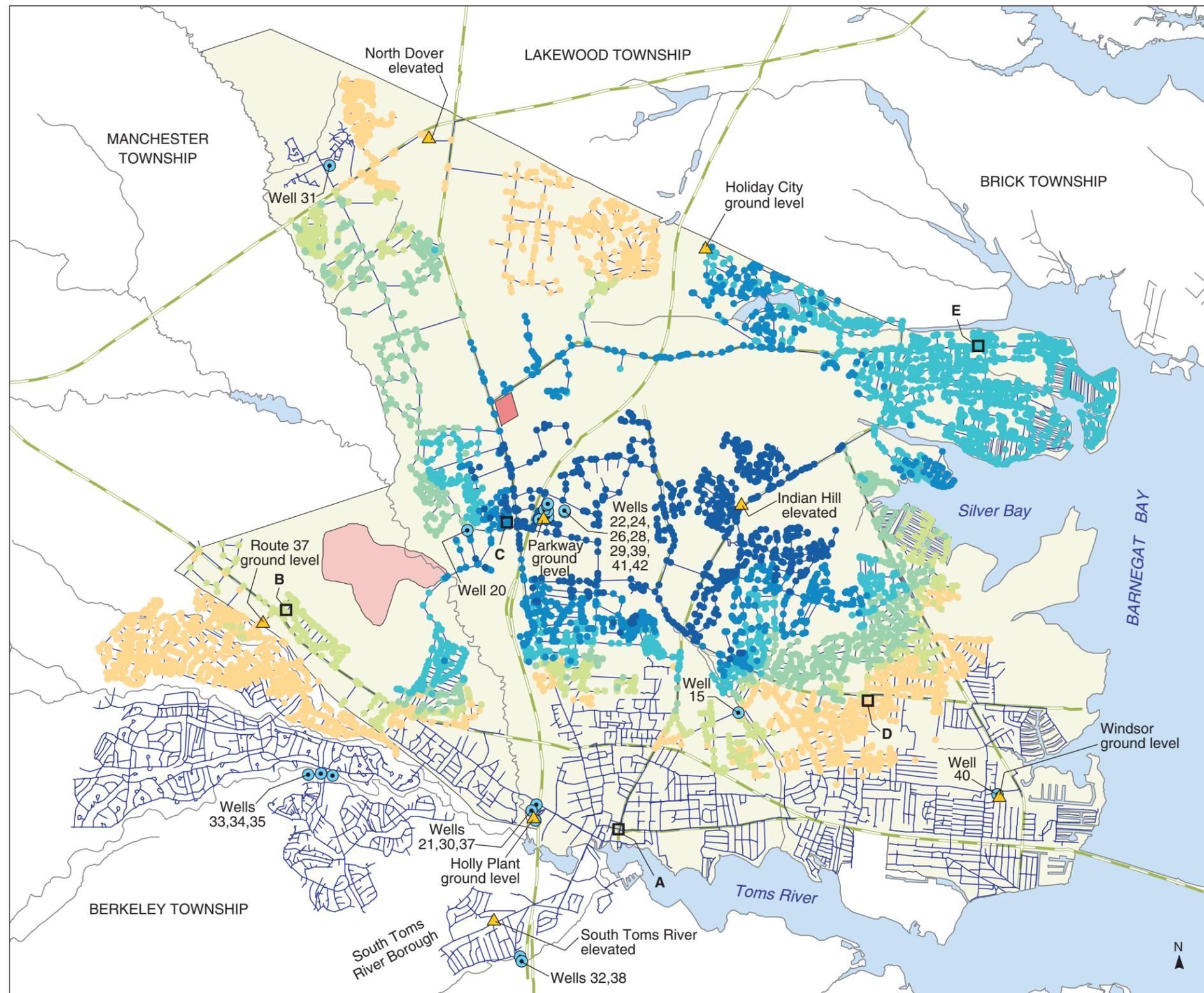


**Dover Township Area, New Jersey  
 Water-Distribution System Model  
 Historical Reconstruction Analysis**

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.

**PLATE 126. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE INDIAN HEAD WELL (20) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, AUGUST 1995 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; height:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:pink; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; height:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:yellow; border:1px solid black;"></span> Dover Township	<span style="display:inline-block; width:15px; height:15px; border-bottom:1px solid grey;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue; border:1px solid black;"></span> Water body	<span style="display:inline-block; width:15px; height:15px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:15px; height:15px; border:1px solid black; transform:translate(50%,50%);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

Percentage of water contributed by Parkway wells (22, 24, 26, 28, 29, 39, 41, 42), 24-hour average

<span style="display:inline-block; width:15px; height:15px; background-color:orange;"></span> 1 to 10	<span style="display:inline-block; width:15px; height:15px; background-color:lightcyan;"></span> 50 to 75
<span style="display:inline-block; width:15px; height:15px; background-color:lightgreen;"></span> 10 to 25	<span style="display:inline-block; width:15px; height:15px; background-color:teal;"></span> 75 to 90
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue;"></span> 25 to 50	<span style="display:inline-block; width:15px; height:15px; background-color:blue;"></span> 90 to 100

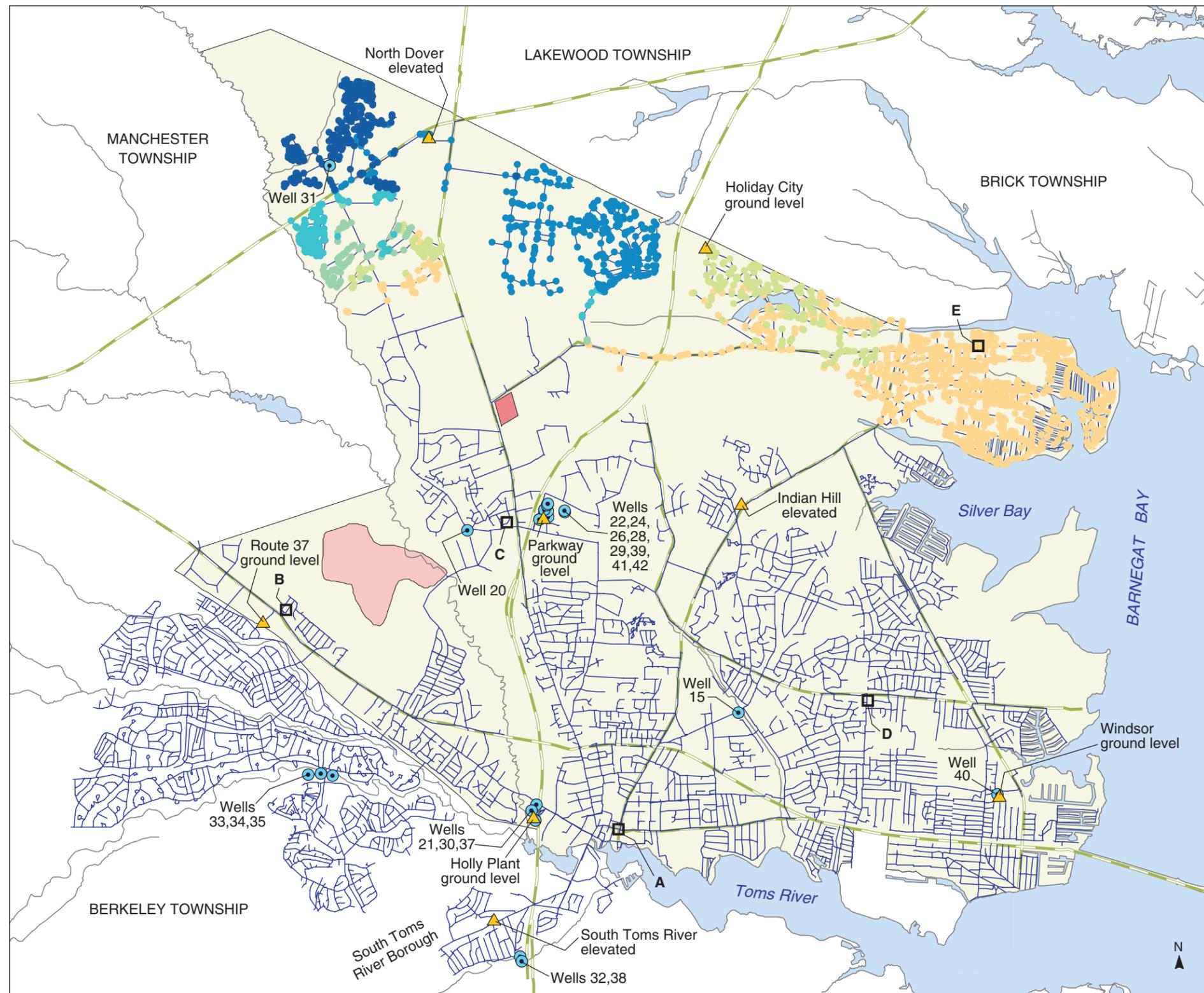
Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



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

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**PLATE 127. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE PARKWAY WELLS (22, 24, 26, 28, 29, 39, 41, 42) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, AUGUST 1995 CONDITIONS**  
 By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; height:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:lightpink; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; height:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:lightyellow; border:1px solid black;"></span> Dover Township	<span style="display:inline-block; width:15px; height:15px; border-bottom:1px solid grey;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue; border:1px solid black;"></span> Water body	<span style="display:inline-block; width:15px; height:15px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:15px; height:15px; border:1px solid black; transform:translate(50%,50%);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

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

<span style="display:inline-block; width:15px; height:15px; background-color:yellow;"></span> 1 to 10	<span style="display:inline-block; width:15px; height:15px; background-color:lightcyan;"></span> 50 to 75
<span style="display:inline-block; width:15px; height:15px; background-color:lightgreen;"></span> 10 to 25	<span style="display:inline-block; width:15px; height:15px; background-color:teal;"></span> 75 to 90
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue;"></span> 25 to 50	<span style="display:inline-block; width:15px; height:15px; background-color:blue;"></span> 90 to 100

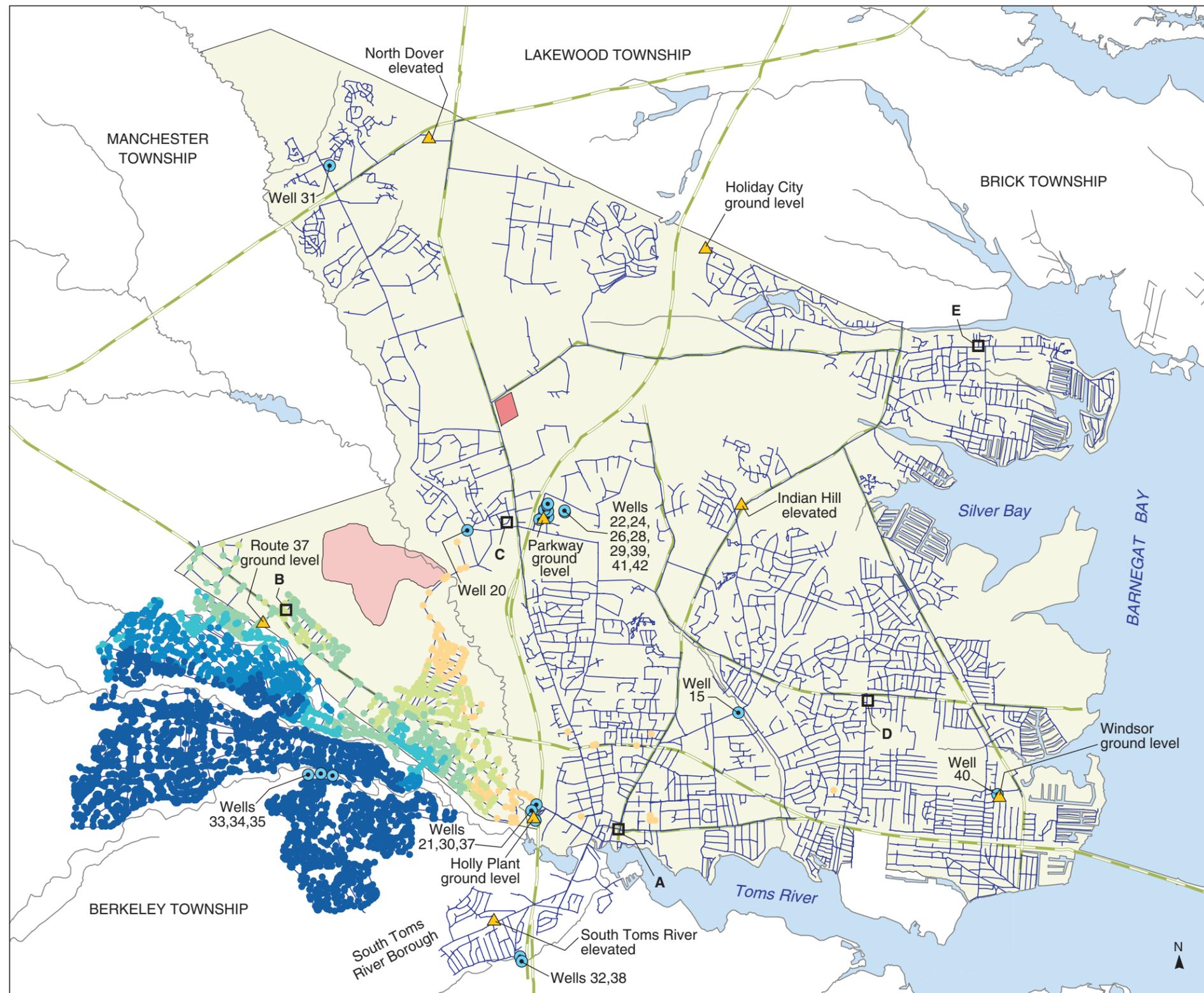
Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



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

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**PLATE 128. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE ROUTE 70 WELL (31) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, AUGUST 1995 CONDITIONS**  
 By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:red; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:yellow;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom:1px solid grey;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue;"></span> Water body	<span style="display:inline-block; width:10px; height:10px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:10px; height:10px; border:1px solid black; transform: rotate(45deg);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

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

<span style="display:inline-block; width:10px; height:10px; background-color:orange;"></span> 1 to 10	<span style="display:inline-block; width:10px; height:10px; background-color:teal;"></span> 50 to 75
<span style="display:inline-block; width:10px; height:10px; background-color:lightgreen;"></span> 10 to 25	<span style="display:inline-block; width:10px; height:10px; background-color:blue;"></span> 75 to 90
<span style="display:inline-block; width:10px; height:10px; background-color:lightblue;"></span> 25 to 50	<span style="display:inline-block; width:10px; height:10px; background-color:darkblue;"></span> 90 to 100

Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



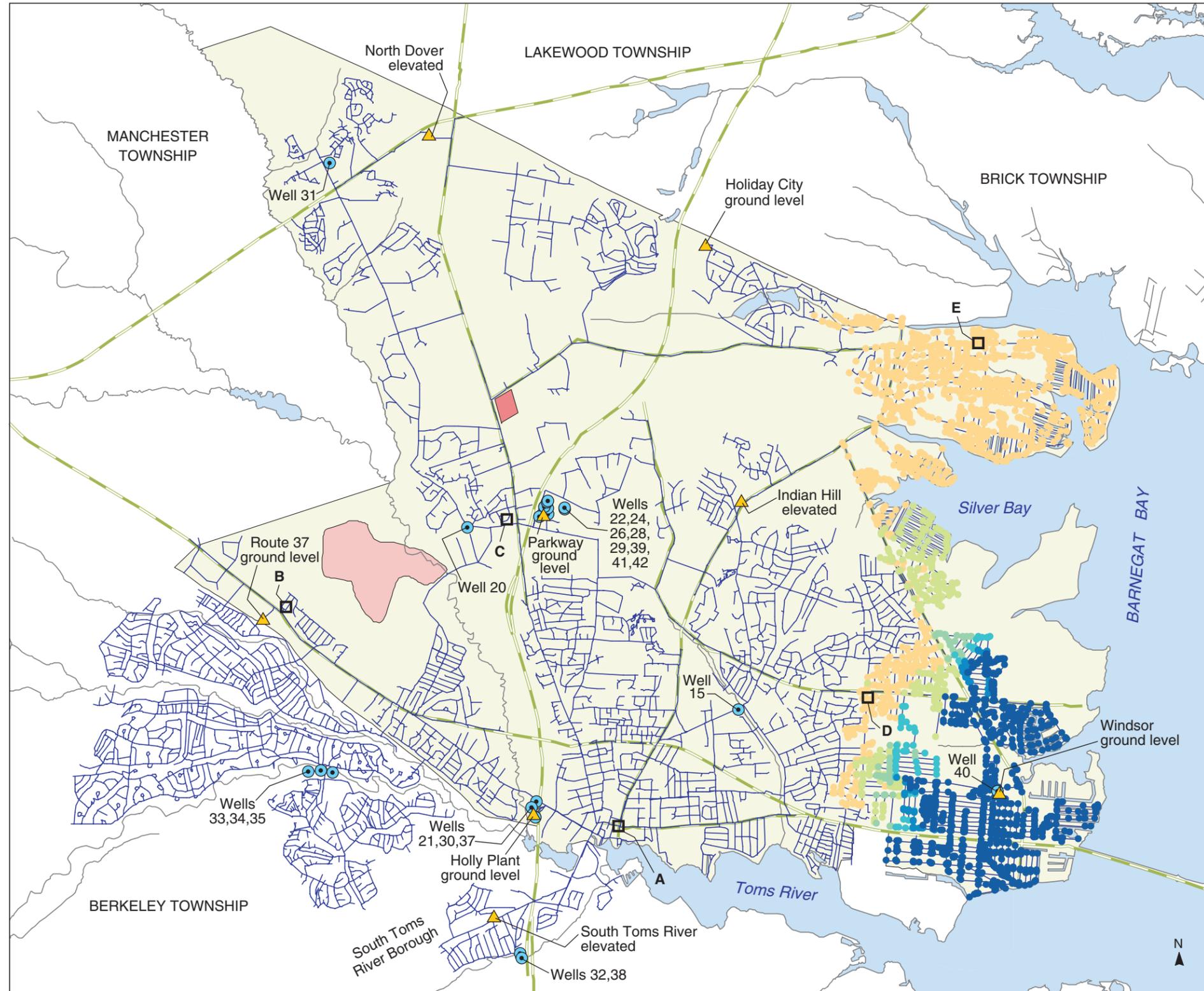
**PLATE 129. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE BERKELEY WELLS (33, 34, 35) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, AUGUST 1995 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



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

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**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:pink; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:yellow; border:1px solid black;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom:1px solid grey;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue; border:1px solid black;"></span> Water body	<span style="display:inline-block; width:15px; height:15px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:15px; height:15px; border:1px solid black; transform:translate(50%,50%);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

Percentage of water contributed by Windsor well (40), 24-hour average

<span style="display:inline-block; width:15px; height:15px; background-color:orange;"></span> 1 to 10	<span style="display:inline-block; width:15px; height:15px; background-color:teal;"></span> 50 to 75
<span style="display:inline-block; width:15px; height:15px; background-color:lightgreen;"></span> 10 to 25	<span style="display:inline-block; width:15px; height:15px; background-color:blue;"></span> 75 to 90
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue;"></span> 25 to 50	<span style="display:inline-block; width:15px; height:15px; background-color:darkblue;"></span> 90 to 100

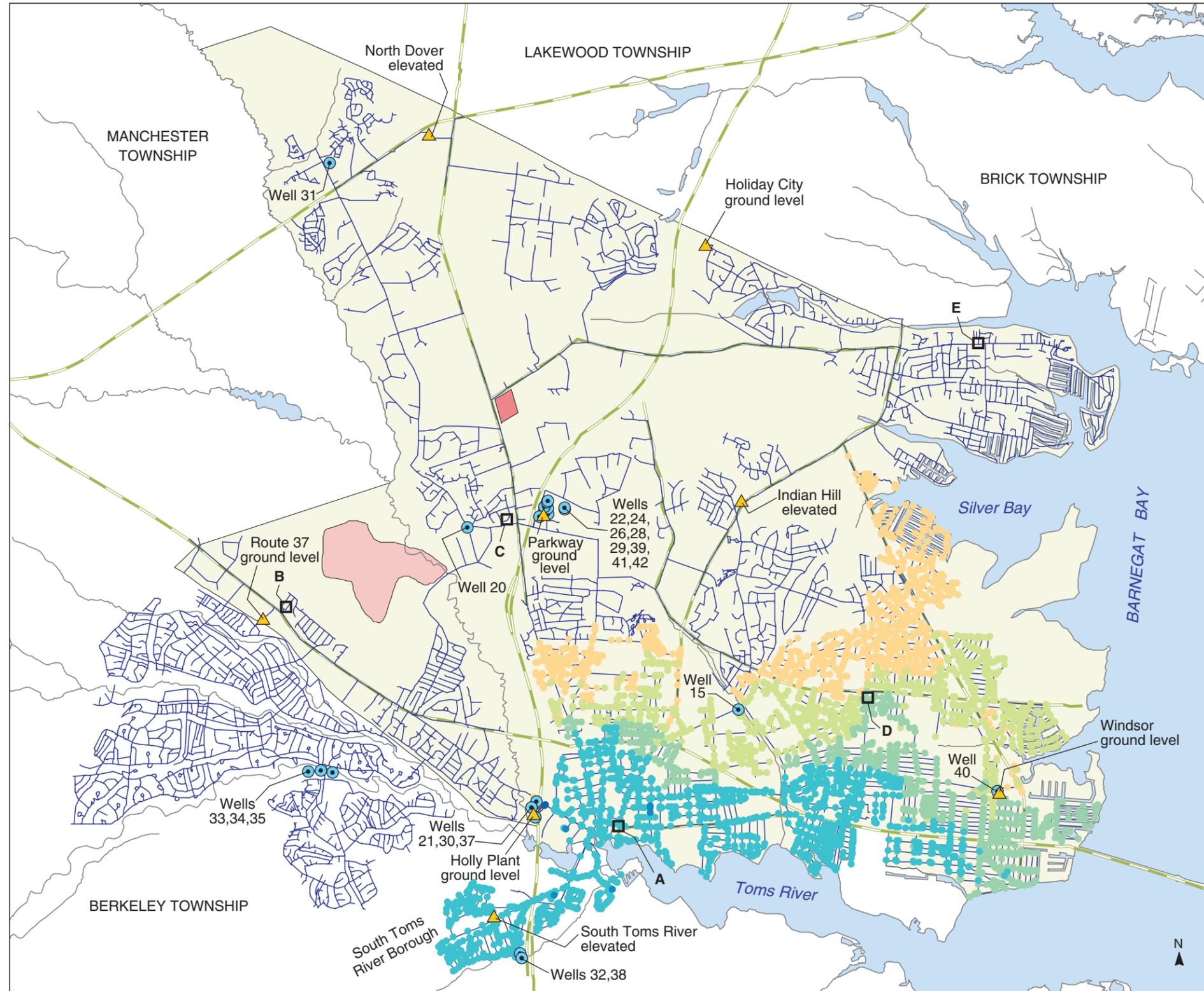
Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



**Dover Township Area, New Jersey  
 Water-Distribution System Model  
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**PLATE 130. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE WINDSOR WELL (40) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, AUGUST 1995 CONDITIONS**  
 By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:red; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:yellow;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom:1px solid grey;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue;"></span> Water body	<span style="display:inline-block; width:15px; height:15px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:15px; height:15px; border:1px solid black; transform: rotate(45deg);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

Percentage of water contributed by Holly well (30), 24-hour average

<span style="display:inline-block; width:10px; height:10px; background-color:orange;"></span> 1 to 10	<span style="display:inline-block; width:10px; height:10px; background-color:teal;"></span> 50 to 75
<span style="display:inline-block; width:10px; height:10px; background-color:lightgreen;"></span> 10 to 25	<span style="display:inline-block; width:10px; height:10px; background-color:blue;"></span> 75 to 90
<span style="display:inline-block; width:10px; height:10px; background-color:lightblue;"></span> 25 to 50	<span style="display:inline-block; width:10px; height:10px; background-color:darkblue;"></span> 90 to 100

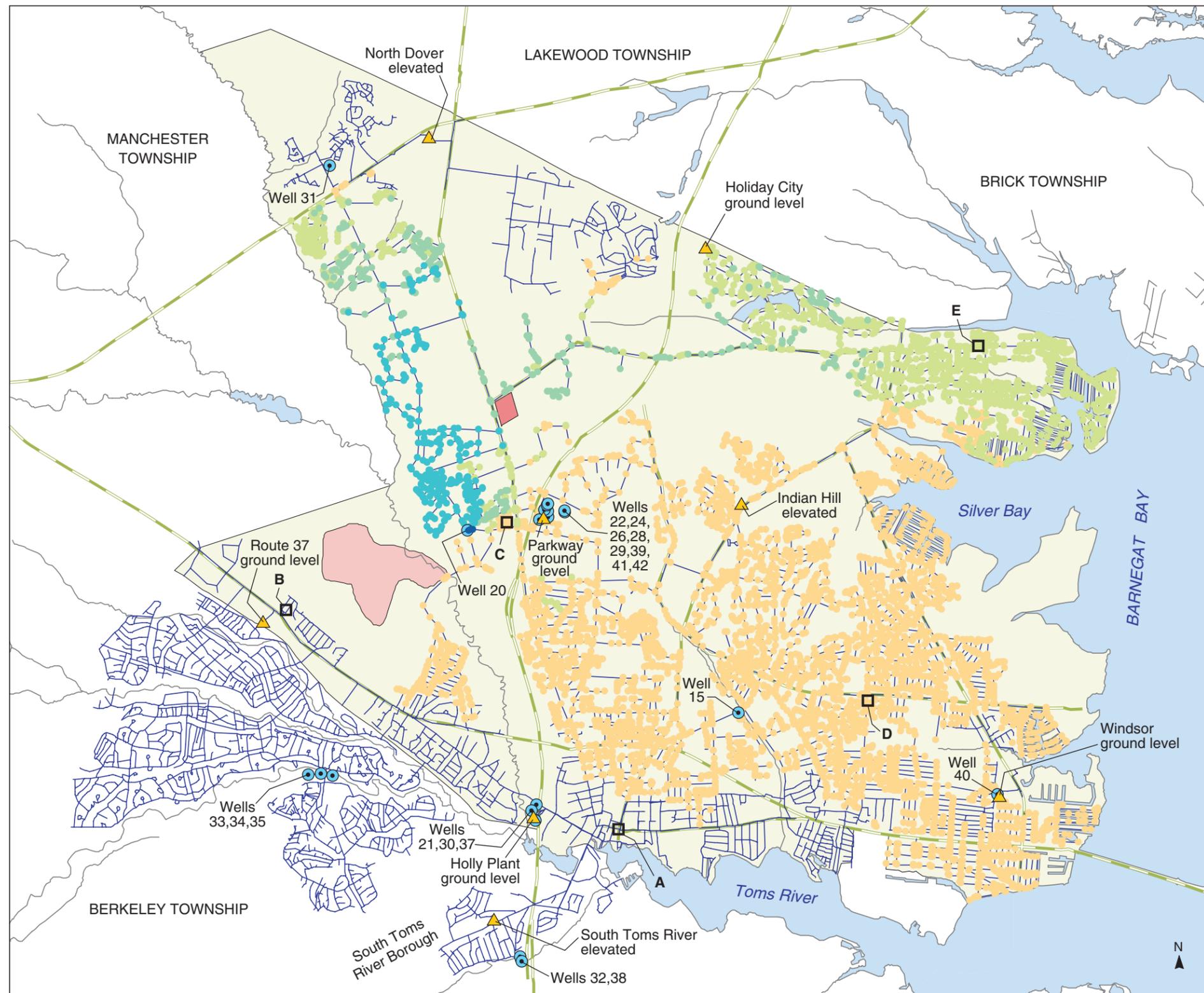
Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



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

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**PLATE 131. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE HOLLY WELL (30) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, OCTOBER 1995 CONDITIONS**  
 By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color: #e67e22; border: 1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom: 1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color: #f08080; border: 1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom: 1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color: #f1c40f; border: 1px solid black;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom: 1px solid grey;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color: #add8e6; border: 1px solid black;"></span> Water body	<span style="display:inline-block; width:10px; height:10px; border: 1px solid blue; border-radius: 50%;"></span> Municipal well
	<span style="display:inline-block; width:10px; height:10px; background-color: #f1c40f; border: 1px solid black; transform: rotate(45deg);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

Percentage of water contributed by Indian Head well (20), 24-hour average

<span style="display:inline-block; width:10px; height:10px; background-color: #f1c40f; border-radius: 50%;"></span> 1 to 10	<span style="display:inline-block; width:10px; height:10px; background-color: #00b0f0; border-radius: 50%;"></span> 50 to 75
<span style="display:inline-block; width:10px; height:10px; background-color: #90ee90; border-radius: 50%;"></span> 10 to 25	<span style="display:inline-block; width:10px; height:10px; background-color: #000080; border-radius: 50%;"></span> 75 to 90
<span style="display:inline-block; width:10px; height:10px; background-color: #90ee90; border-radius: 50%;"></span> 25 to 50	<span style="display:inline-block; width:10px; height:10px; background-color: #000080; border-radius: 50%;"></span> 90 to 100

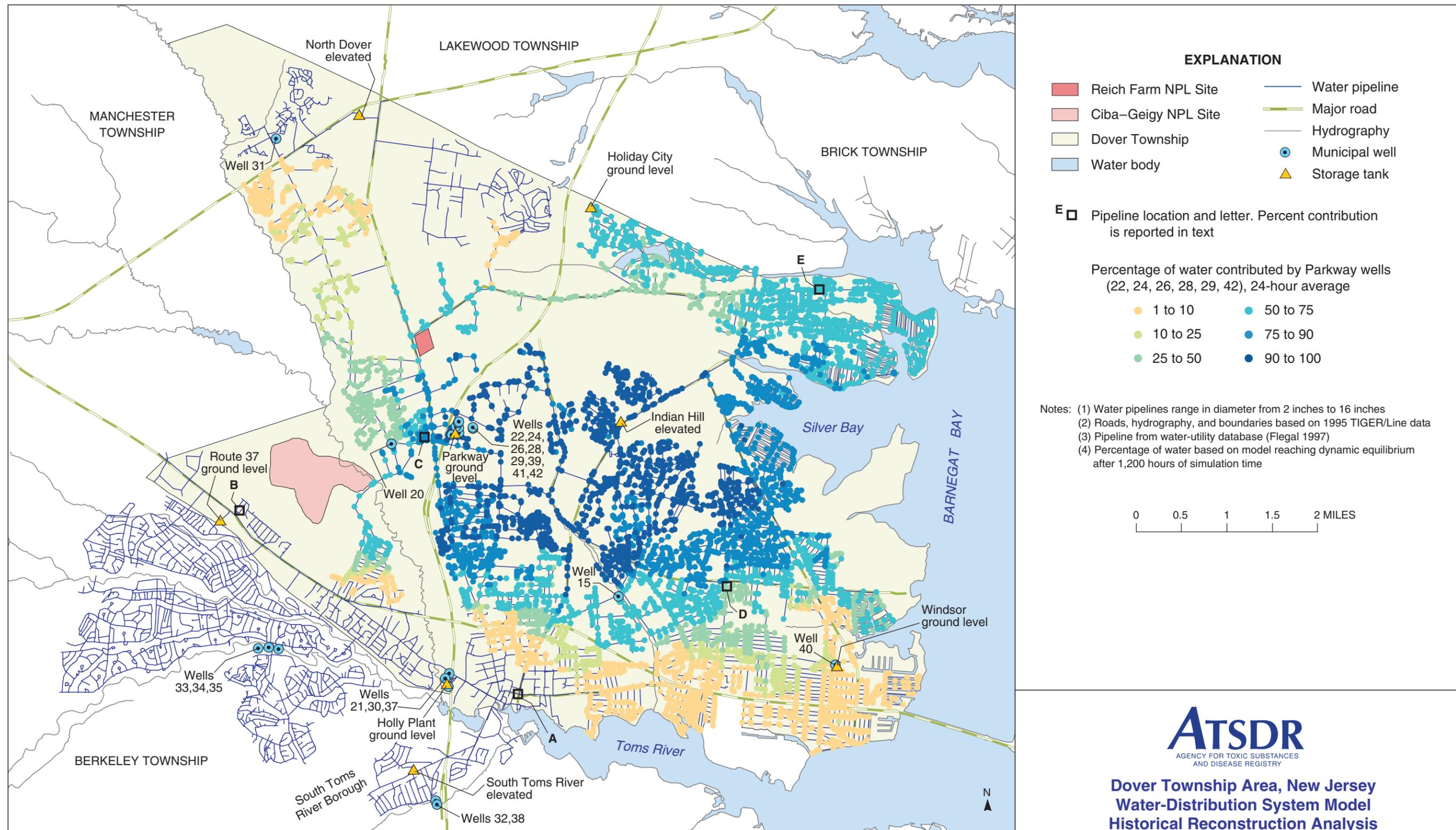
Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



**Dover Township Area, New Jersey  
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**PLATE 132. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE INDIAN HEAD WELL (20) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, OCTOBER 1995 CONDITIONS**  
 By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



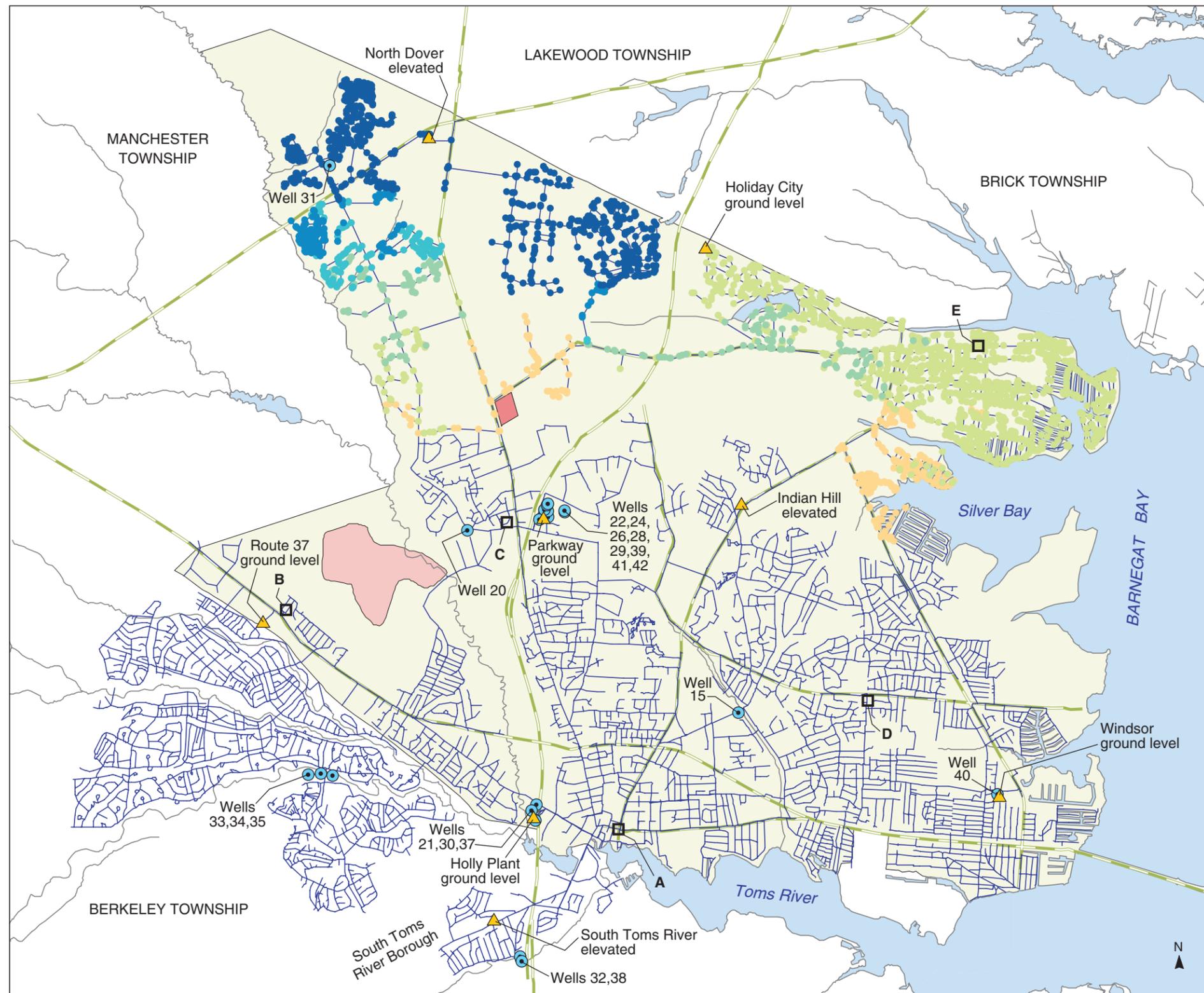
**PLATE 133. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE PARKWAY WELLS (22, 24, 26, 28, 29, 42) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, OCTOBER 1995 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



**Dover Township Area, New Jersey  
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- EXPLANATION**
- Reich Farm NPL Site
  - Ciba-Geigy NPL Site
  - Dover Township
  - Water body
  - Water pipeline
  - Major road
  - Hydrography
  - Municipal well
  - Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

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

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

Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time

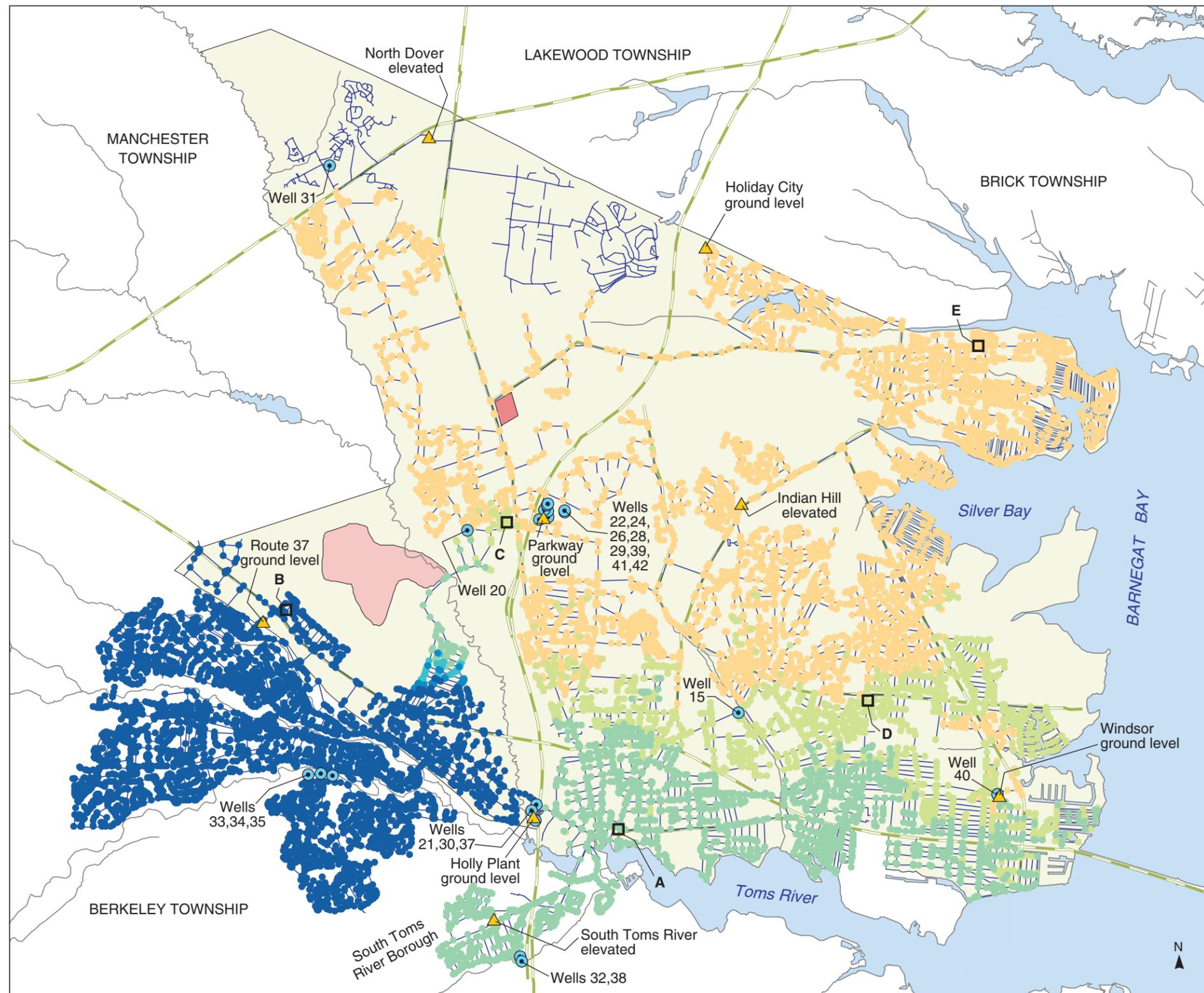


**Dover Township Area, New Jersey  
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**PLATE 134. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE ROUTE 70 WELL (31) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, OCTOBER 1995 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



- EXPLANATION**
- Reich Farm NPL Site
  - Ciba-Geigy NPL Site
  - Dover Township
  - Water body
  - Water pipeline
  - Major road
  - Hydrography
  - Municipal well
  - Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

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

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

- Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



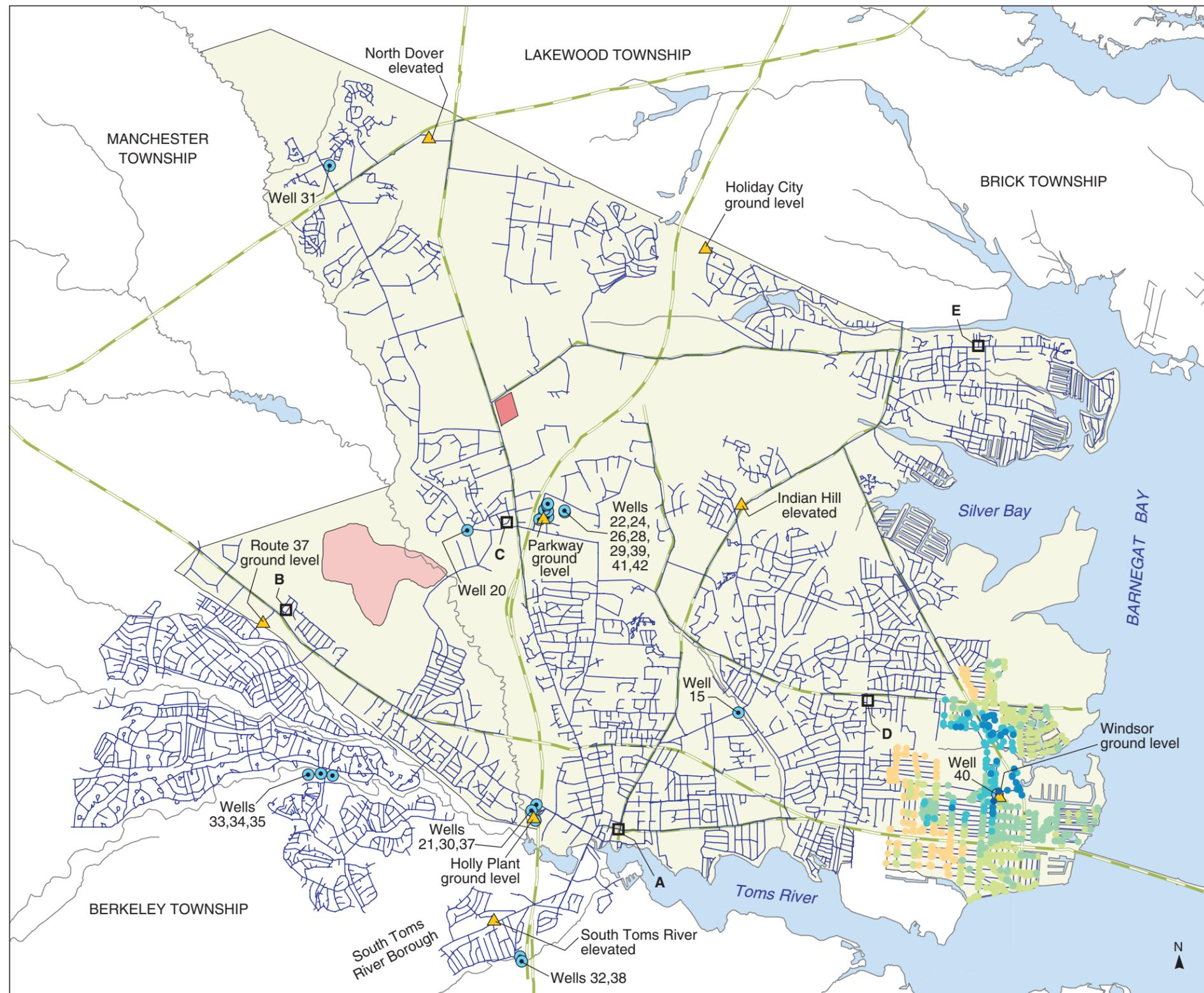
**PLATE 135. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE BERKELEY WELLS (33, 34, 35) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, OCTOBER 1995 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



**Dover Township Area, New Jersey  
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- EXPLANATION**
- Reich Farm NPL Site
  - Ciba-Geigy NPL Site
  - Dover Township
  - Water body
  - Water pipeline
  - Major road
  - Hydrography
  - Municipal well
  - Storage tank

**E** □ Pipeline location and letter. Percent contribution is reported in text

Percentage of water contributed by Windsor well (40), 24-hour average

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

Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time

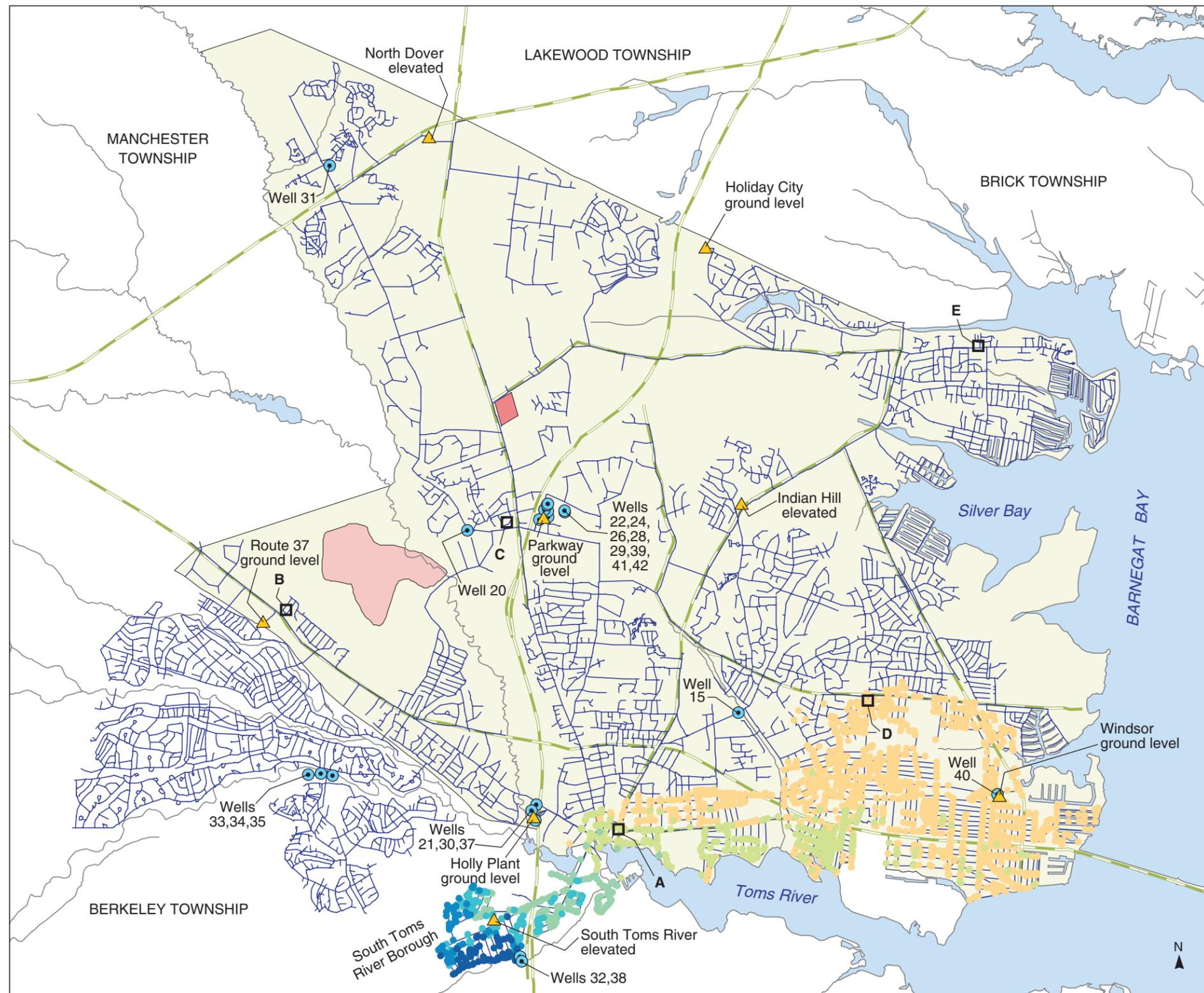


**Dover Township Area, New Jersey  
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**PLATE 136. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE WINDSOR WELL (40) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, OCTOBER 1995 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:red; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:yellow;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom:1px solid grey;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue;"></span> Water body	<span style="display:inline-block; width:15px; height:15px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:15px; height:15px; border:1px solid black; transform: rotate(45deg);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

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

<span style="display:inline-block; width:10px; height:10px; background-color:orange;"></span> 1 to 10	<span style="display:inline-block; width:10px; height:10px; background-color:teal;"></span> 50 to 75
<span style="display:inline-block; width:10px; height:10px; background-color:lightgreen;"></span> 10 to 25	<span style="display:inline-block; width:10px; height:10px; background-color:blue;"></span> 75 to 90
<span style="display:inline-block; width:10px; height:10px; background-color:lightblue;"></span> 25 to 50	<span style="display:inline-block; width:10px; height:10px; background-color:darkblue;"></span> 90 to 100

Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time

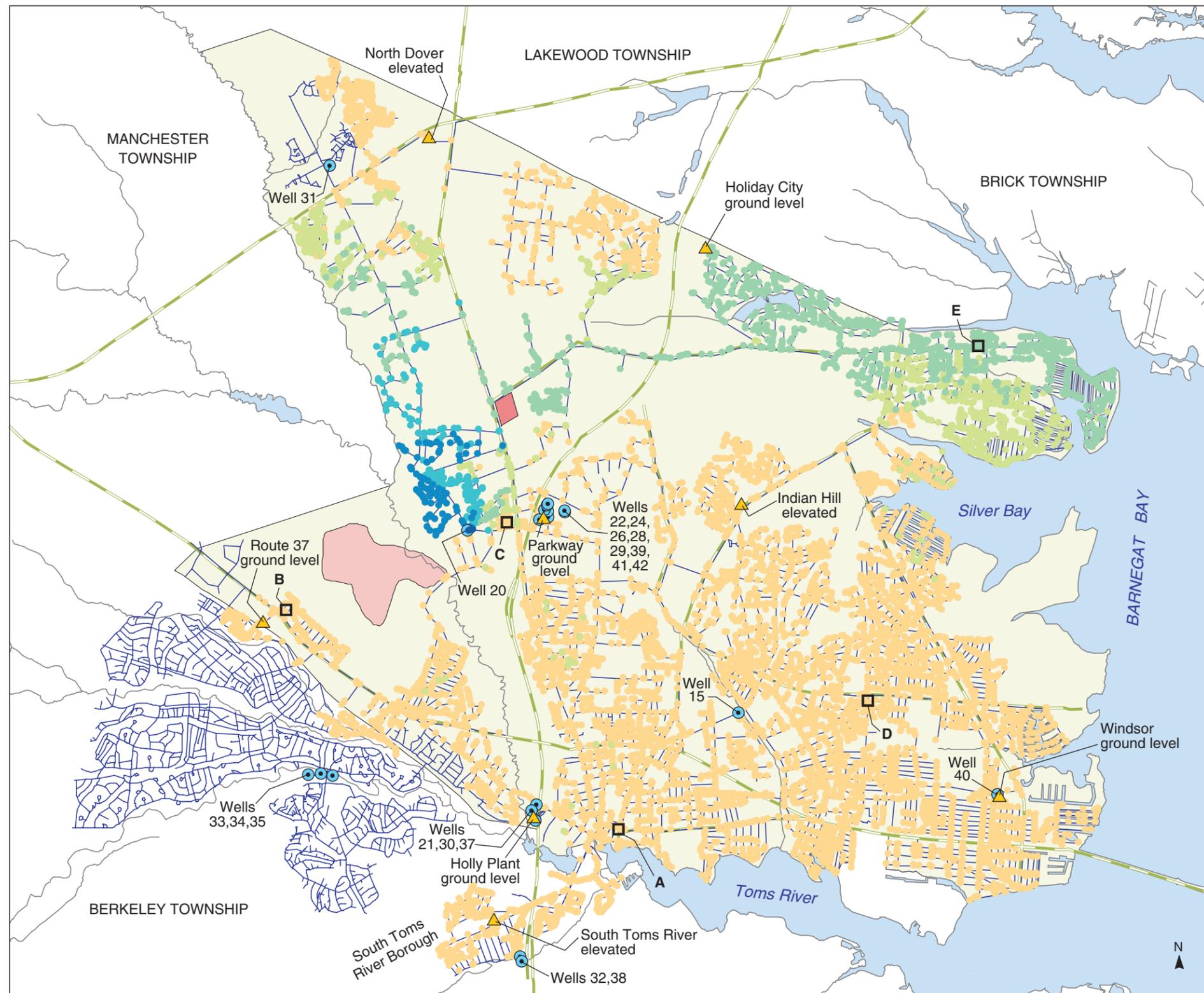


**Dover Township Area, New Jersey  
 Water-Distribution System Model  
 Historical Reconstruction Analysis**

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.

**PLATE 137. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE SOUTH TOMS RIVER WELL (32) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, FEBRUARY 1996 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:red; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:yellow;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom:1px solid grey;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue;"></span> Water body	<span style="display:inline-block; width:15px; height:15px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:15px; height:15px; border:1px solid black; transform: rotate(45deg);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

Percentage of water contributed by Indian Head well (20), 24-hour average

<span style="display:inline-block; width:15px; height:15px; background-color:orange;"></span> 1 to 10	<span style="display:inline-block; width:15px; height:15px; background-color:teal;"></span> 50 to 75
<span style="display:inline-block; width:15px; height:15px; background-color:lightgreen;"></span> 10 to 25	<span style="display:inline-block; width:15px; height:15px; background-color:darkteal;"></span> 75 to 90
<span style="display:inline-block; width:15px; height:15px; background-color:mediumgreen;"></span> 25 to 50	<span style="display:inline-block; width:15px; height:15px; background-color:darkblue;"></span> 90 to 100

Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



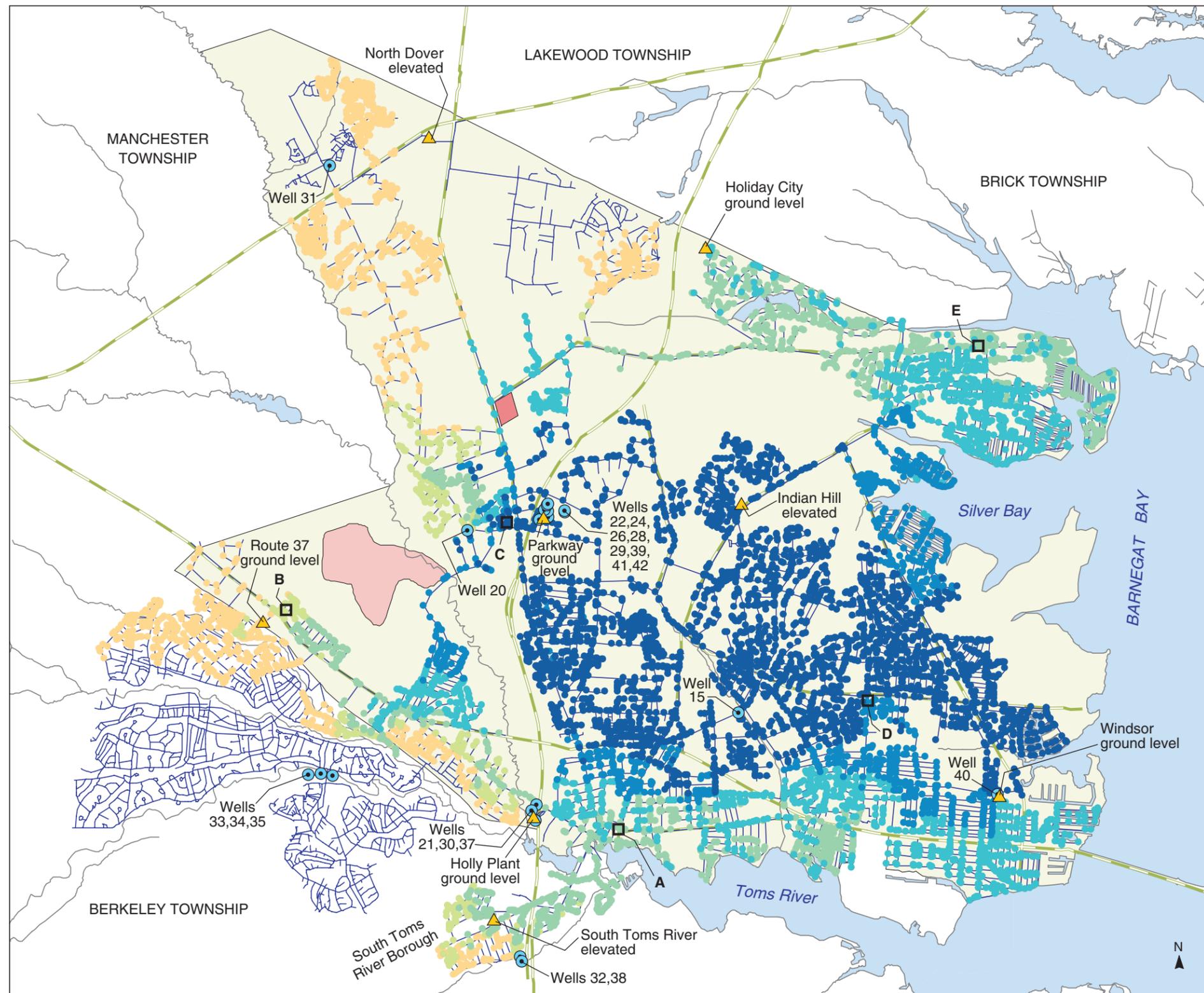
**PLATE 138. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE INDIAN HEAD WELL (20) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, FEBRUARY 1996 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



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

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.



**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:red; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:yellow; border:1px solid black;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom:1px solid grey;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue; border:1px solid black;"></span> Water body	<span style="display:inline-block; width:15px; height:15px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:15px; height:15px; border:1px solid black; transform: rotate(45deg);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

Percentage of water contributed by Parkway wells (22, 24, 26, 28, 29, 42), 24-hour average

<span style="display:inline-block; width:15px; height:15px; background-color:orange; border-radius:50%;"></span> 1 to 10	<span style="display:inline-block; width:15px; height:15px; background-color:teal; border-radius:50%;"></span> 50 to 75
<span style="display:inline-block; width:15px; height:15px; background-color:lightgreen; border-radius:50%;"></span> 10 to 25	<span style="display:inline-block; width:15px; height:15px; background-color:blue; border-radius:50%;"></span> 75 to 90
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue; border-radius:50%;"></span> 25 to 50	<span style="display:inline-block; width:15px; height:15px; background-color:darkblue; border-radius:50%;"></span> 90 to 100

Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



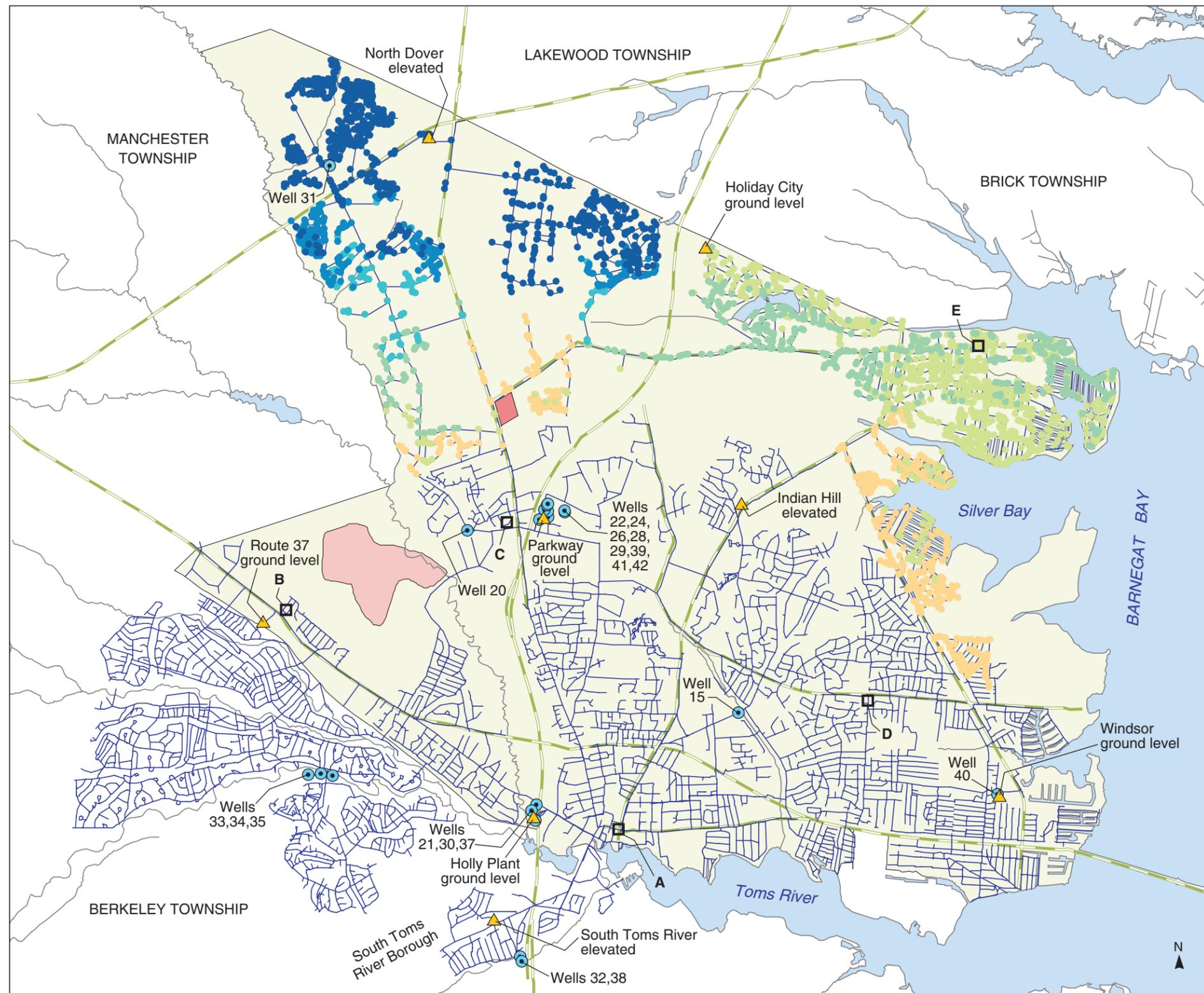
**PLATE 139. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE PARKWAY WELLS (22, 24, 26, 28, 29, 42) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, FEBRUARY 1996 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



**Dover Township Area, New Jersey  
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 Historical Reconstruction Analysis**

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- EXPLANATION**
- Reich Farm NPL Site
  - Ciba-Geigy NPL Site
  - Dover Township
  - Water body
  - Water pipeline
  - Major road
  - Hydrography
  - Municipal well
  - Storage tank

**E** □ Pipeline location and letter. Percent contribution is reported in text

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

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

Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time

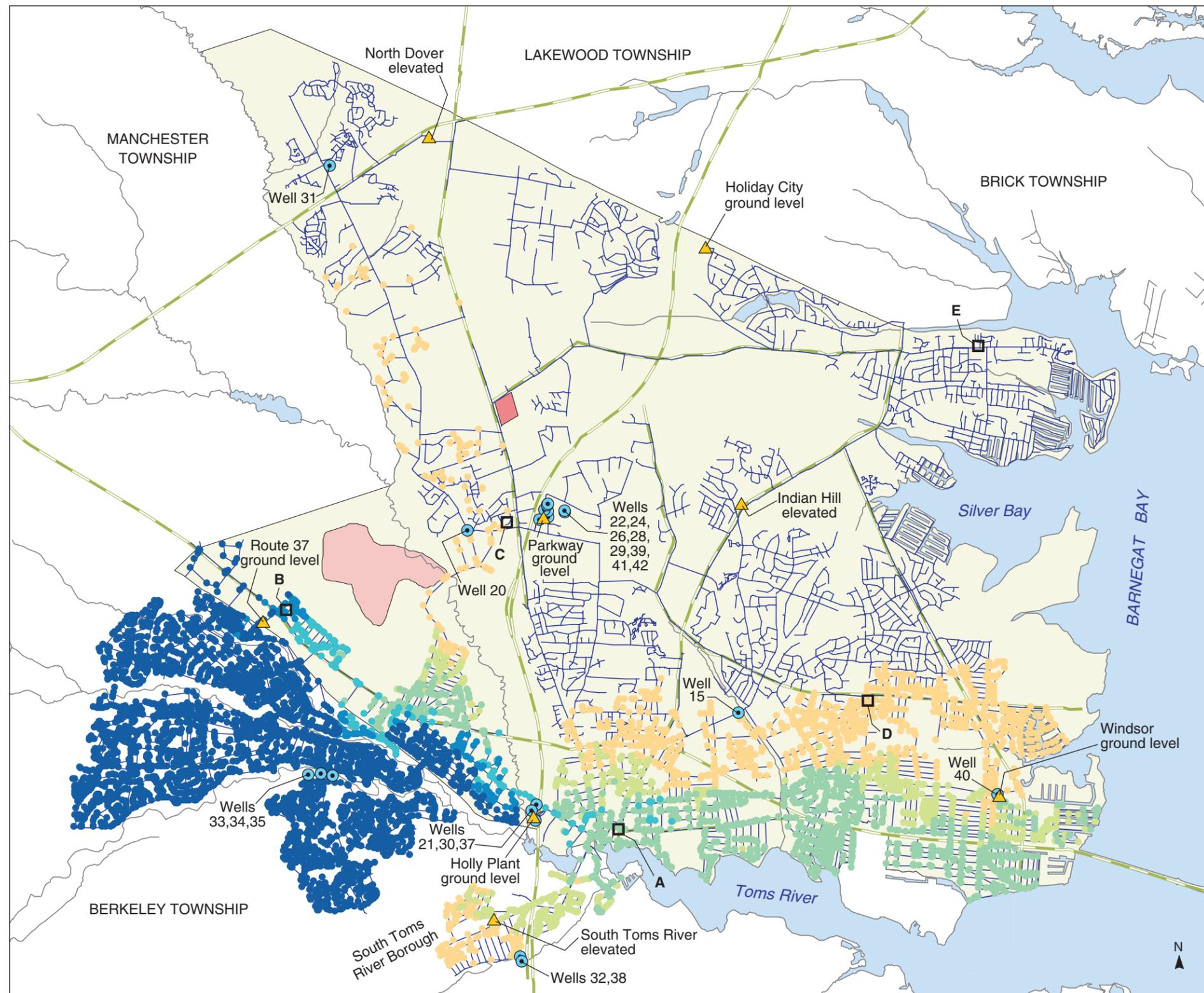


**Dover Township Area, New Jersey  
 Water-Distribution System Model  
 Historical Reconstruction Analysis**

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.

**PLATE 140. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE ROUTE 70 WELL (31) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, FEBRUARY 1996 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:red; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:yellow;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom:1px solid grey;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue;"></span> Water body	<span style="display:inline-block; width:15px; height:15px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:15px; height:15px; border:1px solid black; transform: rotate(45deg);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

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

<span style="display:inline-block; width:10px; height:10px; background-color:orange;"></span> 1 to 10	<span style="display:inline-block; width:10px; height:10px; background-color:teal;"></span> 50 to 75
<span style="display:inline-block; width:10px; height:10px; background-color:lightgreen;"></span> 10 to 25	<span style="display:inline-block; width:10px; height:10px; background-color:blue;"></span> 75 to 90
<span style="display:inline-block; width:10px; height:10px; background-color:lightblue;"></span> 25 to 50	<span style="display:inline-block; width:10px; height:10px; background-color:darkblue;"></span> 90 to 100

Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



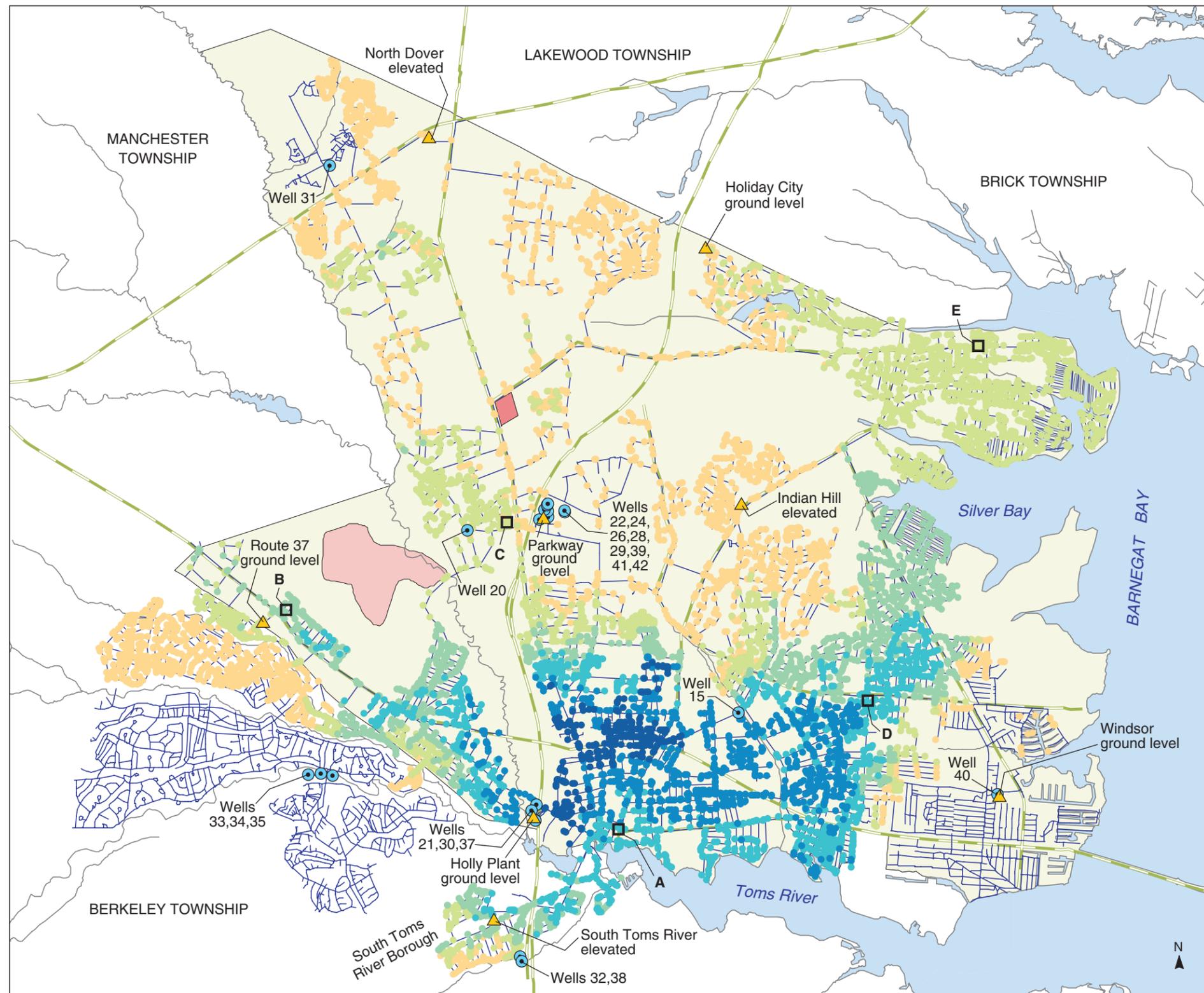
**PLATE 141. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE BERKELEY WELLS (33, 34) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, FEBRUARY 1996 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



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

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.



**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:lightpink; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:lightyellow; border:1px solid black;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom:1px solid grey;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue; border:1px solid black;"></span> Water body	<span style="display:inline-block; width:15px; height:15px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:15px; height:15px; border:1px solid black; transform:translate(50%,50%);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

Percentage of water contributed by Holly well (30), 24-hour average

<span style="display:inline-block; width:15px; height:15px; background-color:orange;"></span> 1 to 10	<span style="display:inline-block; width:15px; height:15px; background-color:teal;"></span> 50 to 75
<span style="display:inline-block; width:15px; height:15px; background-color:lightgreen;"></span> 10 to 25	<span style="display:inline-block; width:15px; height:15px; background-color:blue;"></span> 75 to 90
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue;"></span> 25 to 50	<span style="display:inline-block; width:15px; height:15px; background-color:darkblue;"></span> 90 to 100

Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time

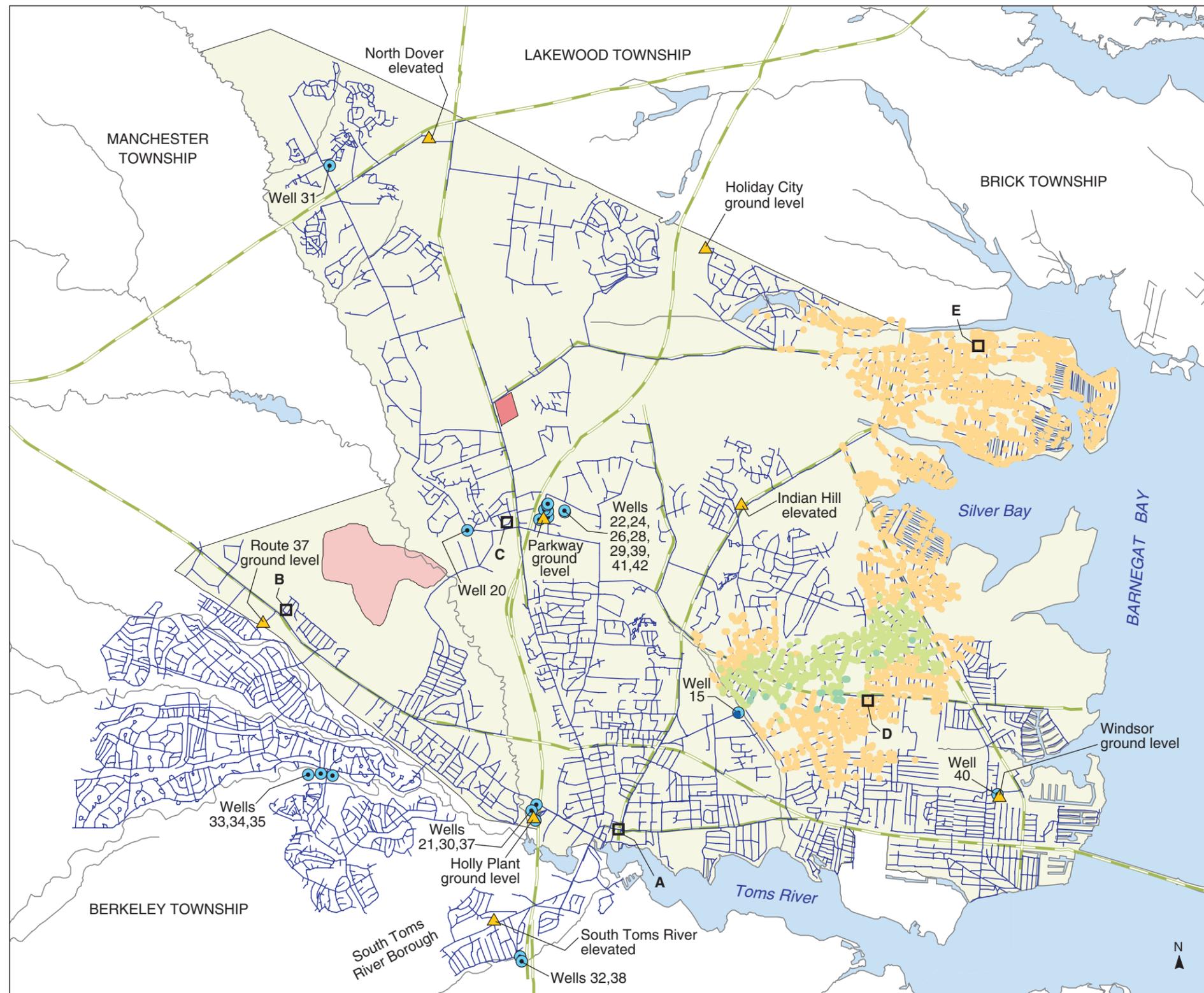


**Dover Township Area, New Jersey  
 Water-Distribution System Model  
 Historical Reconstruction Analysis**

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.

**PLATE 142. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE HOLLY WELL (30) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, JUNE 1996 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



- EXPLANATION**
- Reich Farm NPL Site
  - Ciba-Geigy NPL Site
  - Dover Township
  - Water body
  - Water pipeline
  - Major road
  - Hydrography
  - Municipal well
  - Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

Percentage of water contributed by Brookside well (15), 24-hour average

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

Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time

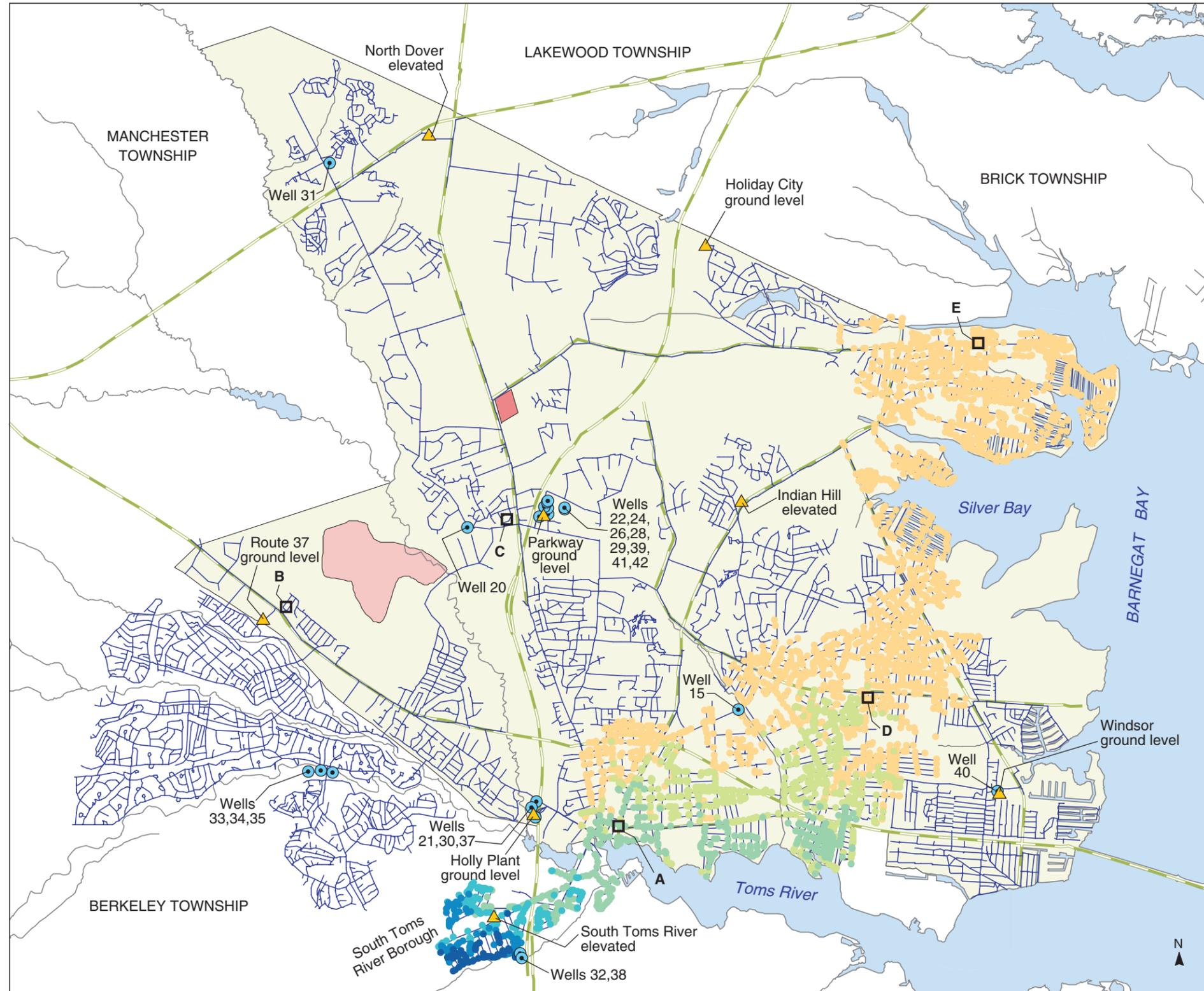


**Dover Township Area, New Jersey  
 Water-Distribution System Model  
 Historical Reconstruction Analysis**

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.

**PLATE 143. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE BROOKSIDE WELL (15) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, JUNE 1996 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; height:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:lightpink; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; height:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:lightyellow; border:1px solid black;"></span> Dover Township	<span style="display:inline-block; width:15px; height:15px; border-bottom:1px solid gray;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue; border:1px solid black;"></span> Water body	<span style="display:inline-block; width:15px; height:15px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:15px; height:15px; border:1px solid black; transform:translate(50%,50%);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

Percentage of water contributed by South Toms River wells (32, 38), 24-hour average

<span style="display:inline-block; width:15px; height:15px; background-color:yellow;"></span> 1 to 10	<span style="display:inline-block; width:15px; height:15px; background-color:lightblue;"></span> 50 to 75
<span style="display:inline-block; width:15px; height:15px; background-color:lightyellow;"></span> 10 to 25	<span style="display:inline-block; width:15px; height:15px; background-color:mediumslateblue;"></span> 75 to 90
<span style="display:inline-block; width:15px; height:15px; background-color:lightgreen;"></span> 25 to 50	<span style="display:inline-block; width:15px; height:15px; background-color:blue;"></span> 90 to 100

Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time

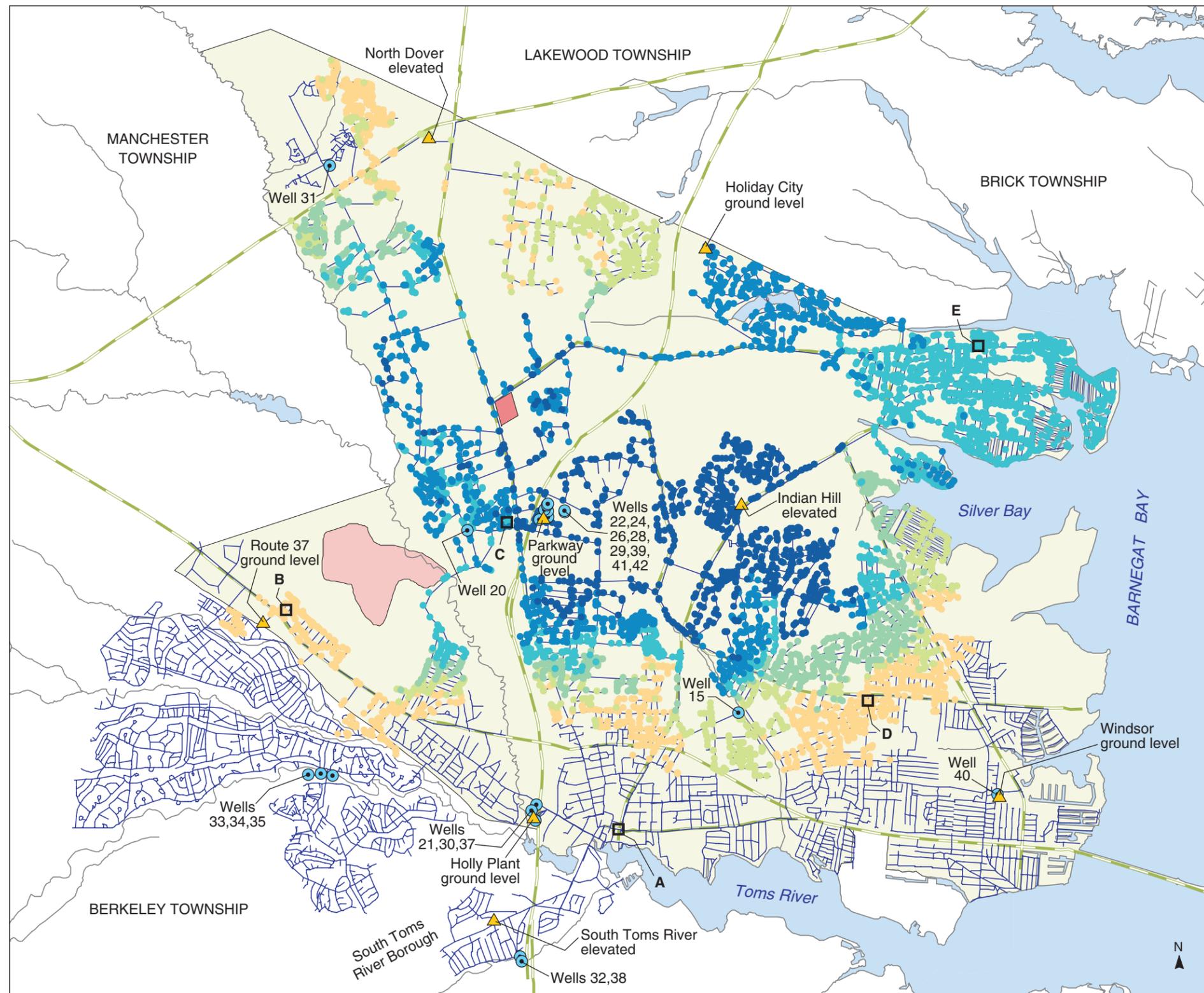


**Dover Township Area, New Jersey  
 Water-Distribution System Model  
 Historical Reconstruction Analysis**

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.

**PLATE 144. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE SOUTH TOMS RIVER WELLS (32, 38) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, JUNE 1996 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



- EXPLANATION**
- Reich Farm NPL Site
  - Ciba-Geigy NPL Site
  - Dover Township
  - Water body
  - Water pipeline
  - Major road
  - Hydrography
  - Municipal well
  - ▲ Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

Percentage of water contributed by Parkway wells (22, 24, 26, 28, 29, 42), 24-hour average

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

Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



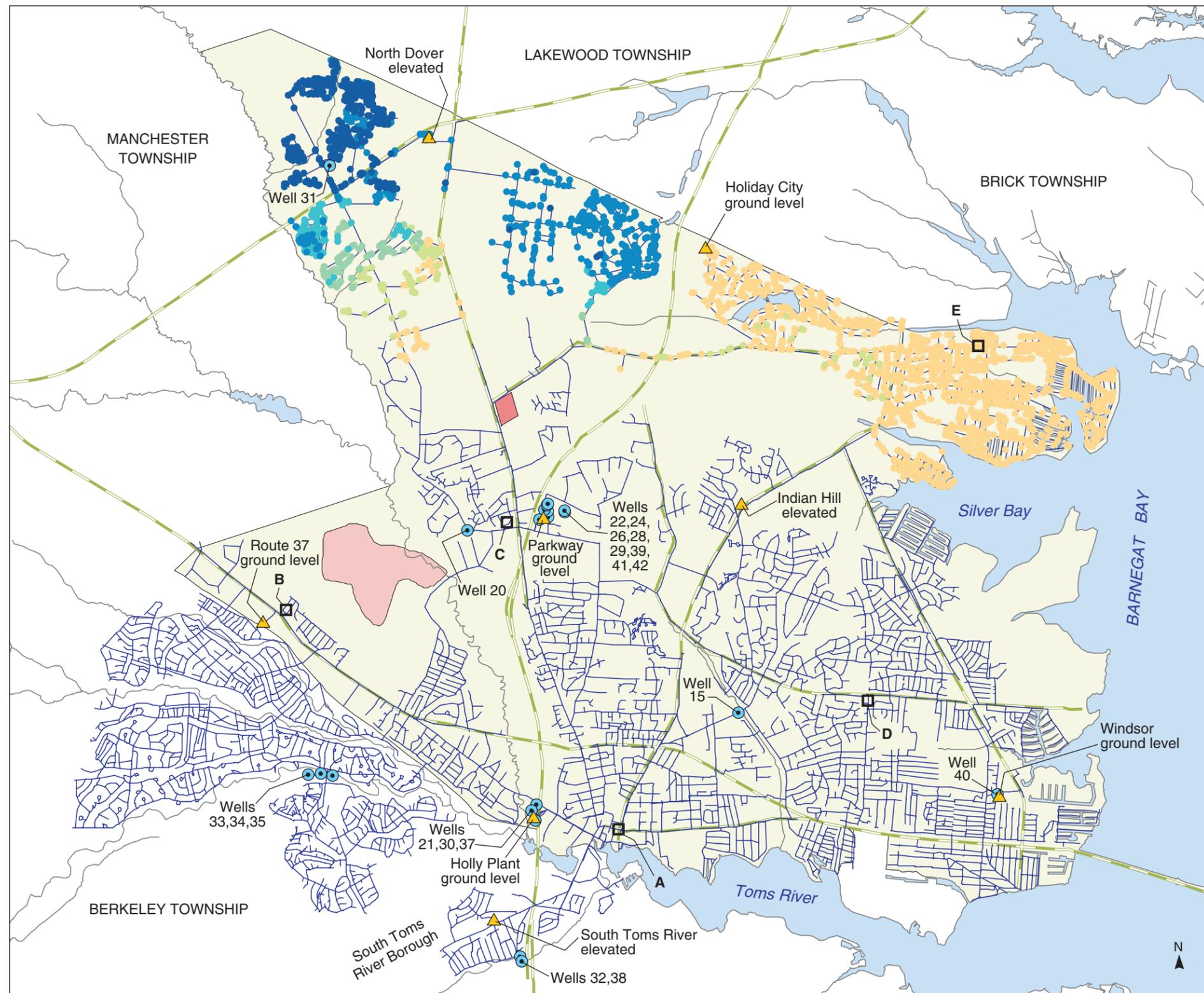
**PLATE 145. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE PARKWAY WELLS (22, 24, 26, 28, 29, 42) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, JUNE 1996 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



**Dover Township Area, New Jersey  
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**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:red; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:yellow;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom:1px solid grey;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue;"></span> Water body	<span style="display:inline-block; width:15px; height:15px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:15px; height:15px; border:1px solid black; transform: rotate(45deg);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

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

<span style="display:inline-block; width:15px; height:15px; background-color:orange;"></span> 1 to 10	<span style="display:inline-block; width:15px; height:15px; background-color:teal;"></span> 50 to 75
<span style="display:inline-block; width:15px; height:15px; background-color:lightgreen;"></span> 10 to 25	<span style="display:inline-block; width:15px; height:15px; background-color:blue;"></span> 75 to 90
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue;"></span> 25 to 50	<span style="display:inline-block; width:15px; height:15px; background-color:darkblue;"></span> 90 to 100

Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



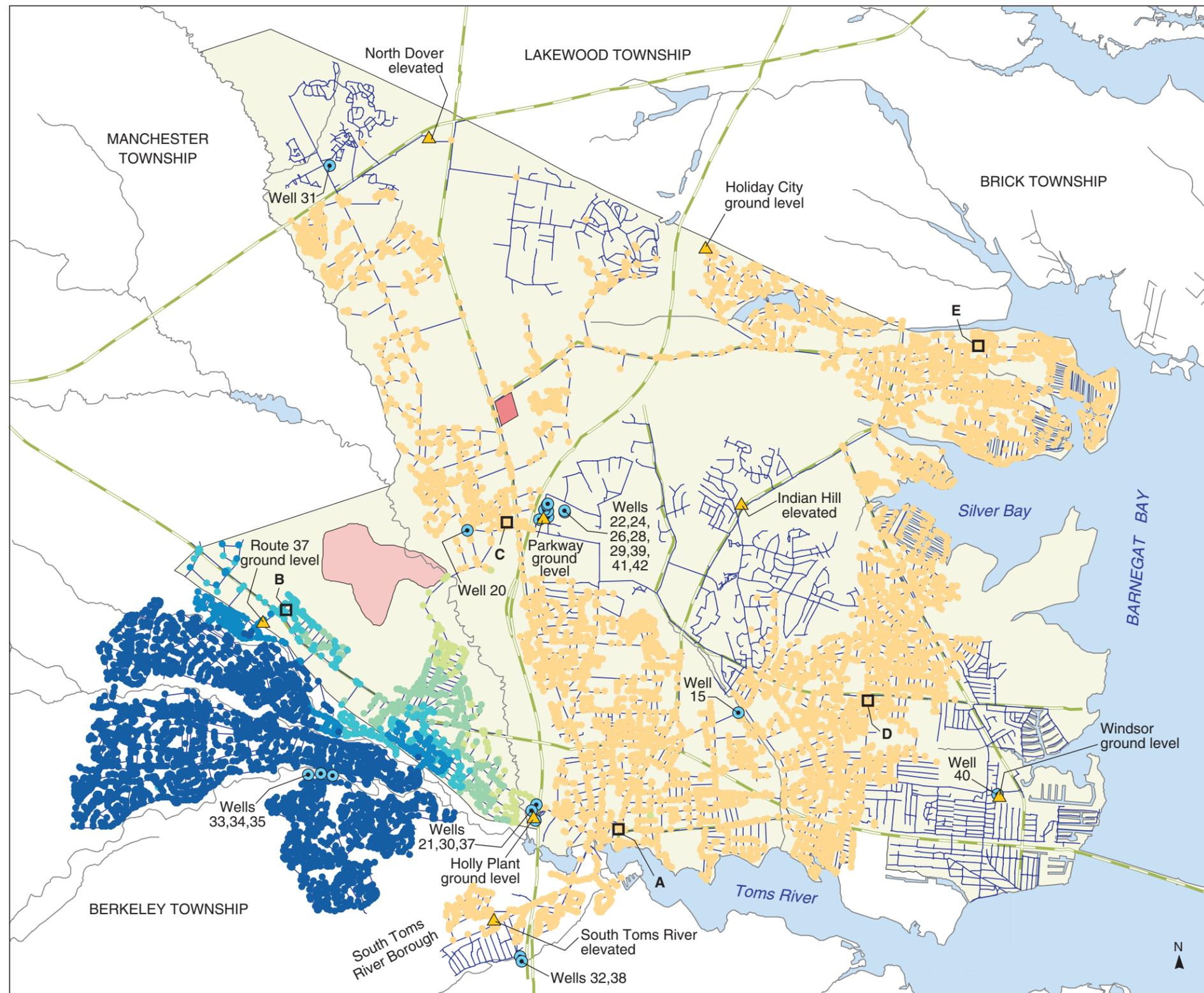
**PLATE 146. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE ROUTE 70 WELL (31) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, JUNE 1996 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



**Dover Township Area, New Jersey  
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Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.



**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:pink; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:yellow; border:1px solid black;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom:1px solid grey;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue; border:1px solid black;"></span> Water body	<span style="display:inline-block; width:15px; height:15px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:15px; height:15px; border:1px solid black; transform: rotate(45deg);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

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

<span style="display:inline-block; width:15px; height:15px; background-color:yellow;"></span> 1 to 10	<span style="display:inline-block; width:15px; height:15px; background-color:lightblue;"></span> 50 to 75
<span style="display:inline-block; width:15px; height:15px; background-color:lightyellow;"></span> 10 to 25	<span style="display:inline-block; width:15px; height:15px; background-color:blue;"></span> 75 to 90
<span style="display:inline-block; width:15px; height:15px; background-color:lightgreen;"></span> 25 to 50	<span style="display:inline-block; width:15px; height:15px; background-color:darkblue;"></span> 90 to 100

Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



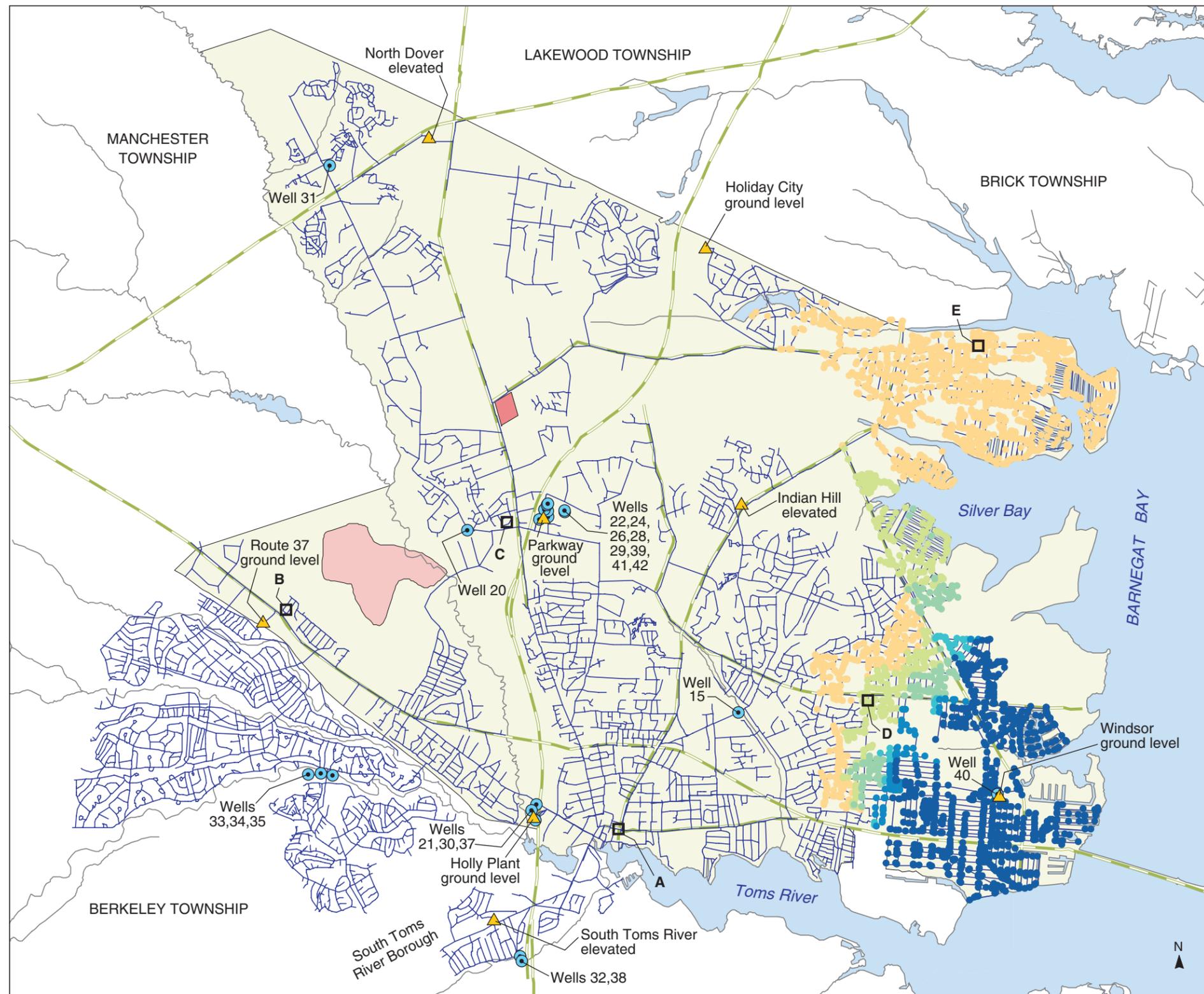
**PLATE 147. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE BERKELEY WELLS (33, 34, 35) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, JUNE 1996 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



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

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.



**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; height:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:pink; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; height:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:yellow; border:1px solid black;"></span> Dover Township	<span style="display:inline-block; width:15px; height:15px; border-bottom:1px solid grey;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue; border:1px solid black;"></span> Water body	<span style="display:inline-block; width:15px; height:15px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:15px; height:15px; border:1px solid black; transform: rotate(45deg);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

Percentage of water contributed by Windsor well (40), 24-hour average

<span style="display:inline-block; width:10px; height:10px; background-color:orange;"></span> 1 to 10	<span style="display:inline-block; width:10px; height:10px; background-color:teal;"></span> 50 to 75
<span style="display:inline-block; width:10px; height:10px; background-color:lightgreen;"></span> 10 to 25	<span style="display:inline-block; width:10px; height:10px; background-color:blue;"></span> 75 to 90
<span style="display:inline-block; width:10px; height:10px; background-color:lightblue;"></span> 25 to 50	<span style="display:inline-block; width:10px; height:10px; background-color:darkblue;"></span> 90 to 100

Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time

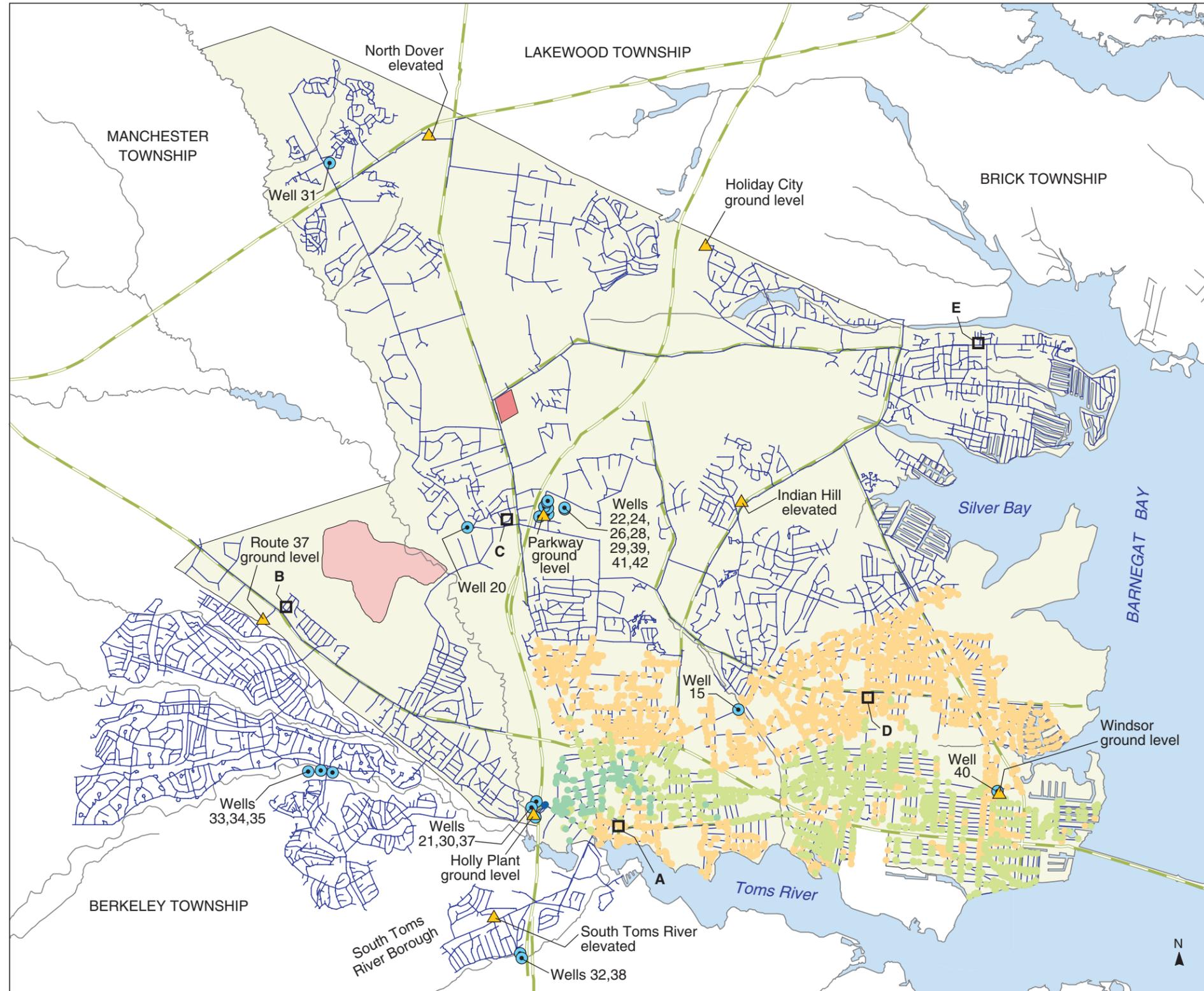


**Dover Township Area, New Jersey  
 Water-Distribution System Model  
 Historical Reconstruction Analysis**

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.

**PLATE 148. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE WINDSOR WELL (40) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, JUNE 1996 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



**EXPLANATION**

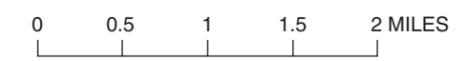
<span style="display:inline-block; width:15px; height:15px; background-color:red; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:yellow;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom:1px solid grey;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue;"></span> Water body	<span style="display:inline-block; width:15px; height:15px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:15px; height:15px; border:1px solid black; transform: rotate(45deg);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

Percentage of water contributed by Holly well (30), 24-hour average

<span style="display:inline-block; width:10px; height:10px; background-color:orange;"></span> 1 to 10	<span style="display:inline-block; width:10px; height:10px; background-color:teal;"></span> 50 to 75
<span style="display:inline-block; width:10px; height:10px; background-color:lightgreen;"></span> 10 to 25	<span style="display:inline-block; width:10px; height:10px; background-color:blue;"></span> 75 to 90
<span style="display:inline-block; width:10px; height:10px; background-color:lightblue;"></span> 25 to 50	<span style="display:inline-block; width:10px; height:10px; background-color:darkblue;"></span> 90 to 100

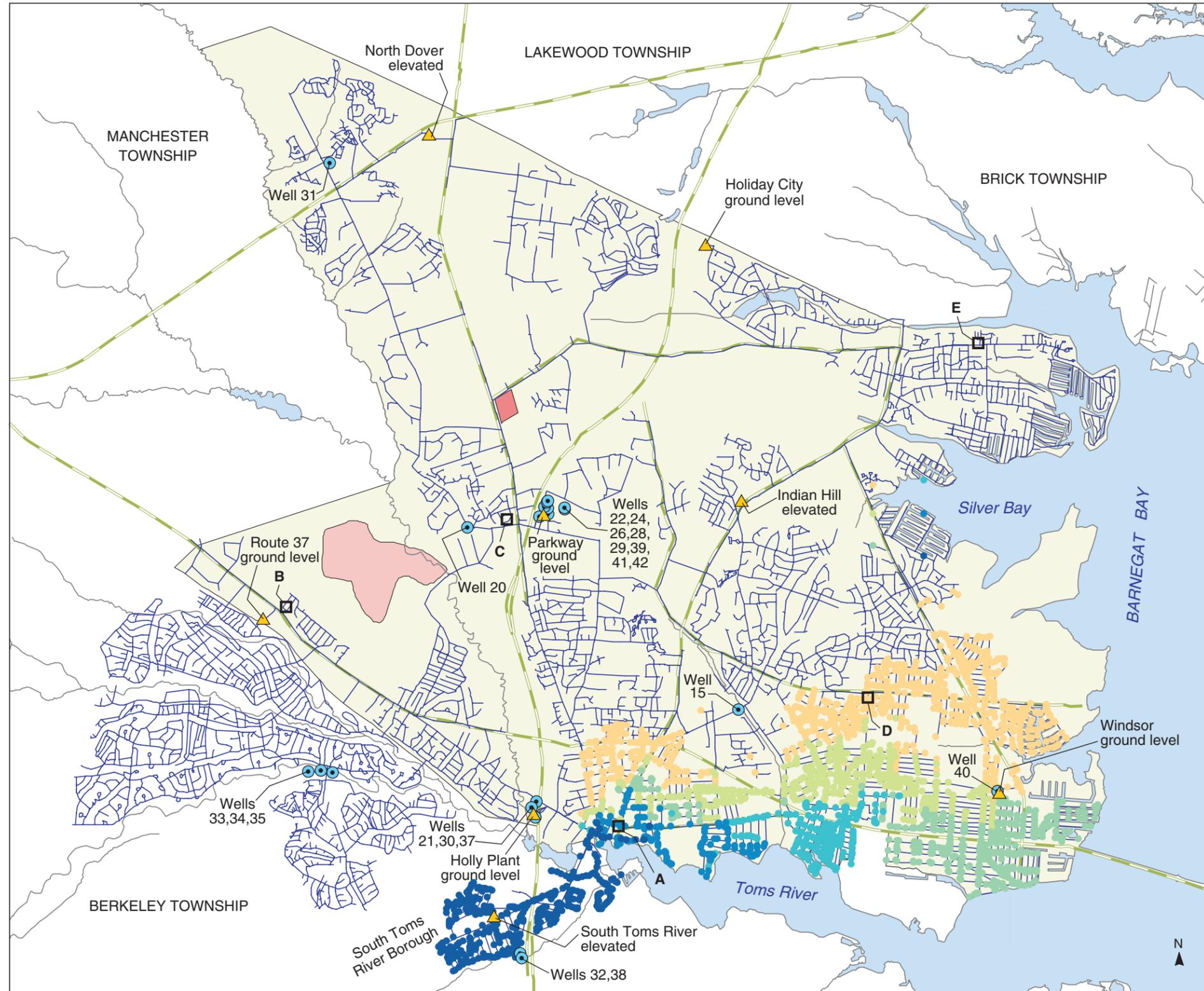
Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



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

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.

**PLATE 149. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE HOLLY WELL (30) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, OCTOBER 1996 CONDITIONS**  
 By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:red; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:yellow; border:1px solid black;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom:1px solid grey;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue; border:1px solid black;"></span> Water body	<span style="display:inline-block; width:15px; height:15px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:15px; height:15px; border:1px solid black; transform: rotate(45deg);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

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

<span style="display:inline-block; width:10px; height:10px; background-color:orange;"></span> 1 to 10	<span style="display:inline-block; width:10px; height:10px; background-color:teal;"></span> 50 to 75
<span style="display:inline-block; width:10px; height:10px; background-color:lightgreen;"></span> 10 to 25	<span style="display:inline-block; width:10px; height:10px; background-color:blue;"></span> 75 to 90
<span style="display:inline-block; width:10px; height:10px; background-color:lightblue;"></span> 25 to 50	<span style="display:inline-block; width:10px; height:10px; background-color:darkblue;"></span> 90 to 100

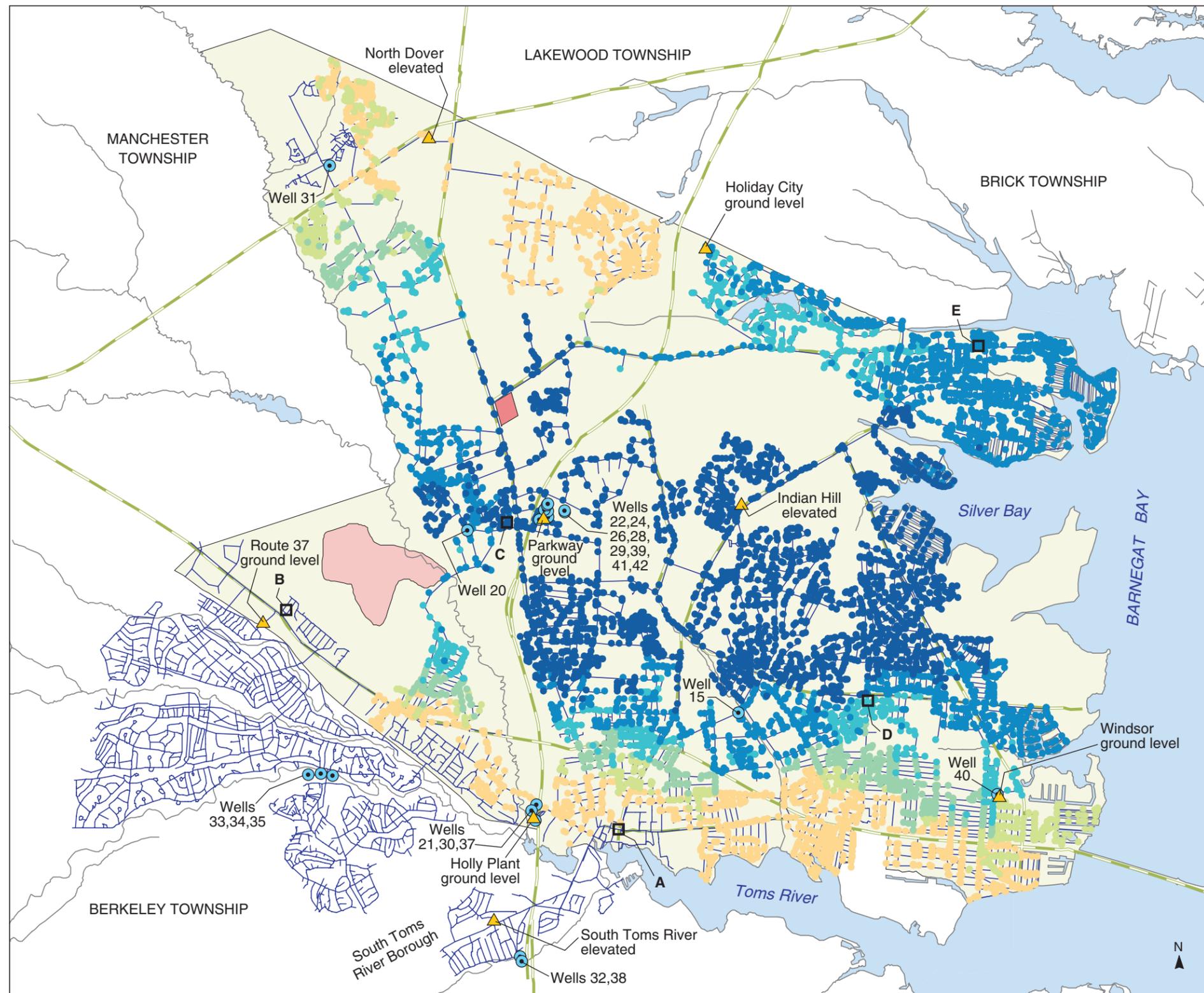
Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



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

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.

**PLATE 150. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE SOUTH TOMS RIVER WELL (32) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, OCTOBER 1996 CONDITIONS**  
 By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



- EXPLANATION**
- Reich Farm NPL Site
  - Ciba-Geigy NPL Site
  - Dover Township
  - Water body
  - Water pipeline
  - Major road
  - Hydrography
  - Municipal well
  - Storage tank

**E** □ Pipeline location and letter. Percent contribution is reported in text

Percentage of water contributed by Parkway wells (22, 24, 26, 28, 29, 72), 24-hour average

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

Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



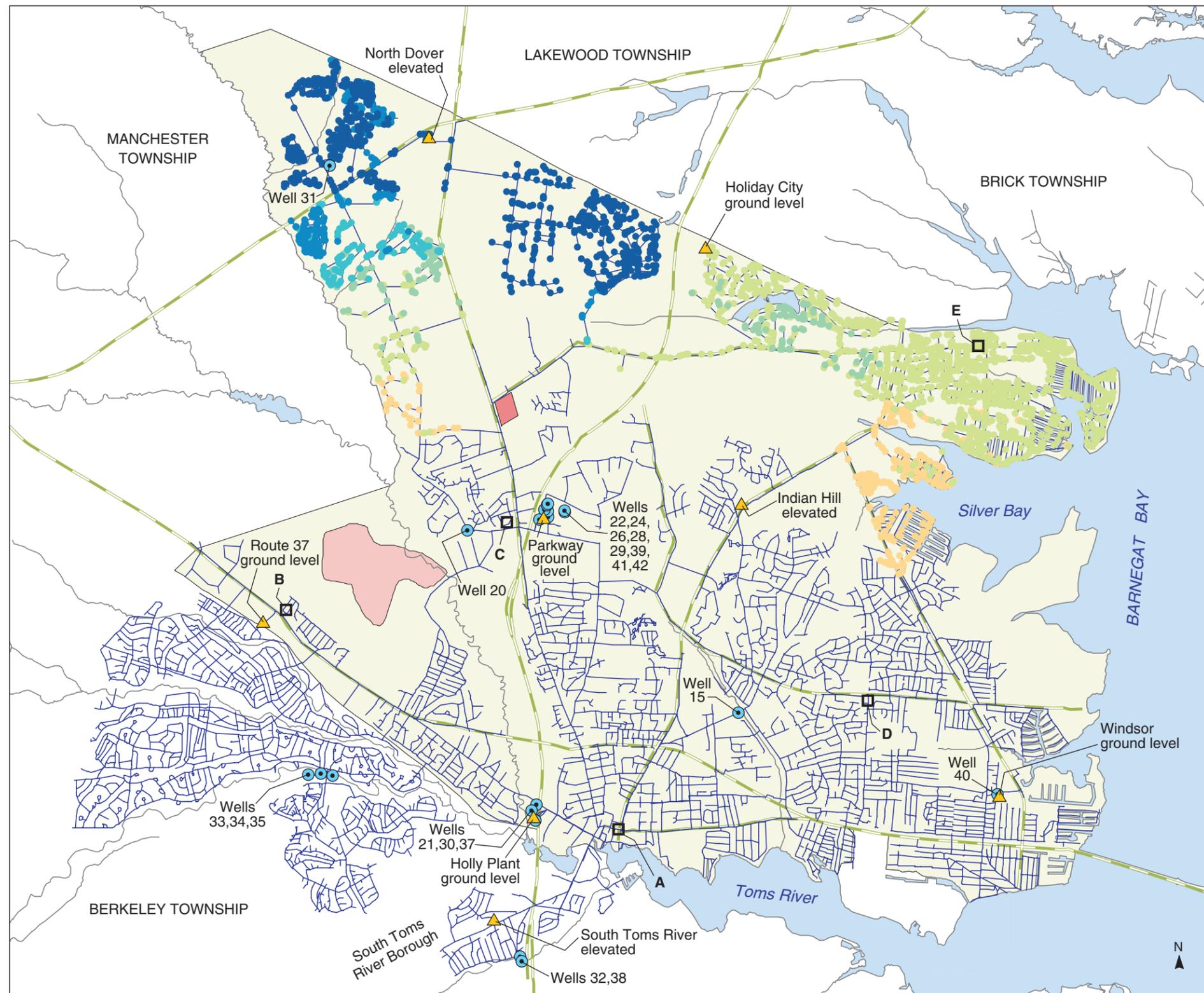
**PLATE 151. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE PARKWAY WELLS (22, 24, 26, 28, 29, 42) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, OCTOBER 1996 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



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

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.



**EXPLANATION**

<span style="display:inline-block; width:15px; height:15px; background-color:lightcoral; border:1px solid black;"></span> Reich Farm NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid blue;"></span> Water pipeline
<span style="display:inline-block; width:15px; height:15px; background-color:pink; border:1px solid black;"></span> Ciba-Geigy NPL Site	<span style="display:inline-block; width:15px; border-bottom:1px solid green;"></span> Major road
<span style="display:inline-block; width:15px; height:15px; background-color:yellow; border:1px solid black;"></span> Dover Township	<span style="display:inline-block; width:15px; border-bottom:1px solid grey;"></span> Hydrography
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue; border:1px solid black;"></span> Water body	<span style="display:inline-block; width:15px; border:1px solid blue; border-radius:50%;"></span> Municipal well
	<span style="display:inline-block; width:15px; height:15px; background-color:yellow; border:1px solid black; transform:translate(50%,50%);"></span> Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

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

- |   |  |
|---|--|
| <span style="display:inline-block; width:10px; height:10px; background-color:orange; border-radius:50%;"></span> 1 to 10      | <span style="display:inline-block; width:10px; height:10px; background-color:lightblue; border-radius:50%;"></span> 50 to 75 |
| <span style="display:inline-block; width:10px; height:10px; background-color:lightgreen; border-radius:50%;"></span> 10 to 25 | <span style="display:inline-block; width:10px; height:10px; background-color:blue; border-radius:50%;"></span> 75 to 90      |
| <span style="display:inline-block; width:10px; height:10px; background-color:teal; border-radius:50%;"></span> 25 to 50       | <span style="display:inline-block; width:10px; height:10px; background-color:darkblue; border-radius:50%;"></span> 90 to 100 |

Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time

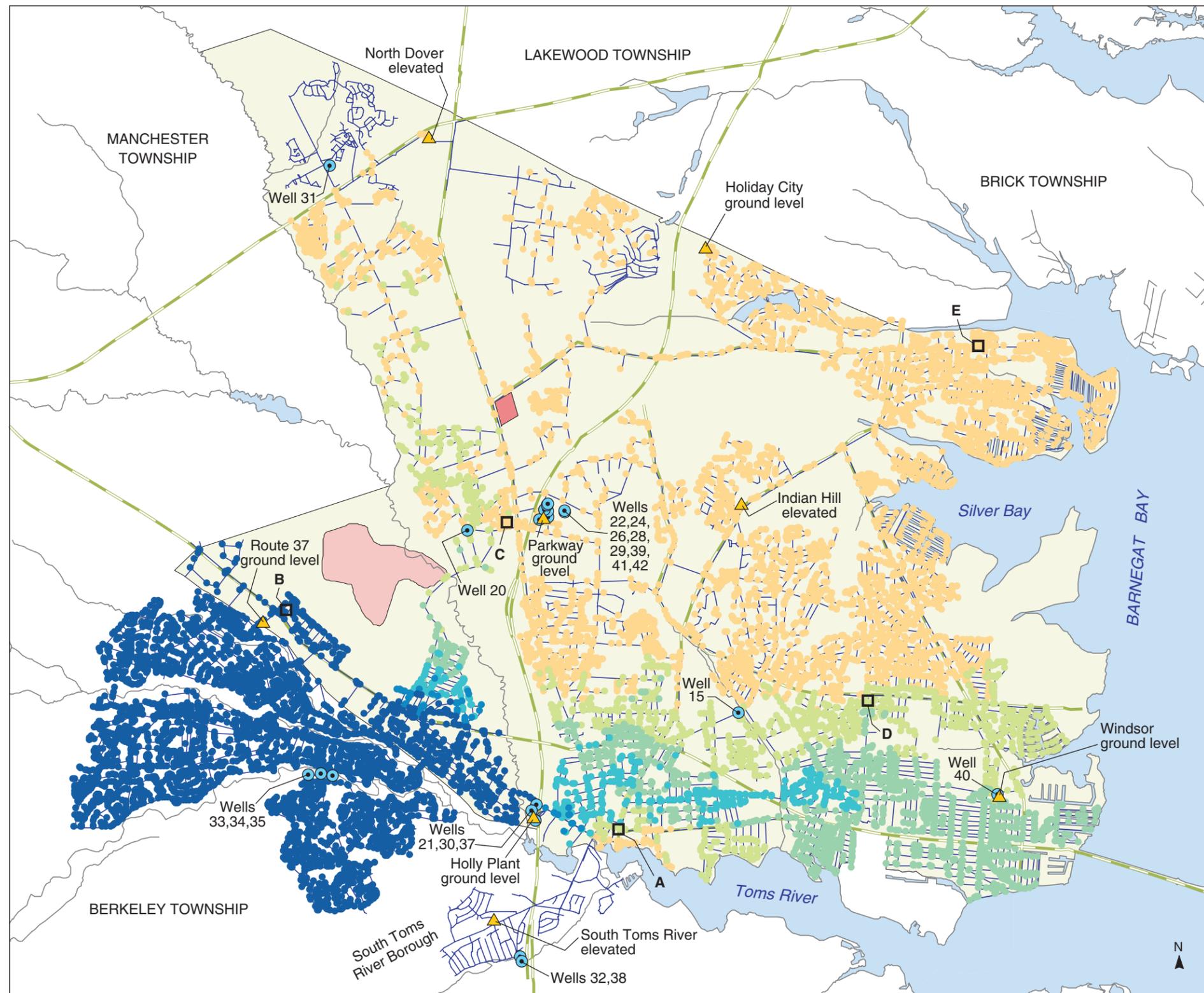


**Dover Township Area, New Jersey  
 Water-Distribution System Model  
 Historical Reconstruction Analysis**

Maslia ML, Sautner JB, Aral MM, Gillig RE, Reyes JJ, Williams RC. 2001. Historical reconstruction of the water-distribution system serving the Dover Township area, New Jersey: January 1962–December 1996. Atlanta: Agency for Toxic Substances and Disease Registry.

**PLATE 152. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE ROUTE 70 WELL (31) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, OCTOBER 1996 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams



- EXPLANATION**
- Reich Farm NPL Site
  - Ciba-Geigy NPL Site
  - Dover Township
  - Water body
  - Water pipeline
  - Major road
  - Hydrography
  - Municipal well
  - Storage tank

**E**  Pipeline location and letter. Percent contribution is reported in text

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

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

- Notes: (1) Water pipelines range in diameter from 2 inches to 16 inches  
 (2) Roads, hydrography, and boundaries based on 1995 TIGER/Line data  
 (3) Pipeline from water-utility database (Flegal 1997)  
 (4) Percentage of water based on model reaching dynamic equilibrium after 1,200 hours of simulation time



**Dover Township Area, New Jersey  
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**PLATE 153. AREAL DISTRIBUTION OF SIMULATED PROPORTIONATE CONTRIBUTION OF WATER FROM THE BERKELEY WELLS (33, 34, 35) TO LOCATIONS IN THE DOVER TOWNSHIP AREA, NEW JERSEY, OCTOBER 1996 CONDITIONS**

By Morris L. Maslia, Jason B. Sautner, Mustafa M. Aral, Richard E. Gillig, Juan J. Reyes, and Robert C. Williams