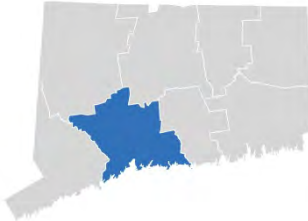


FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

VOLUME 4 OF 10



NEW HAVEN COUNTY, CONNECTICUT (ALL JURISDICTIONS)

| COMMUNITY NAME | NUMBER | COMMUNITY NAME | NUMBER |
|------------------------|--------|---------------------|--------|
| TOWN OF PROSPECT | 090151 | TOWN OF PROSPECT | 090151 |
| CITY OF ANSONIA | 090071 | TOWN OF SEYMOUR | 090088 |
| TOWN OF BEACON FALLS | 090072 | TOWN OF SOUTHURY | 090089 |
| TOWN OF BETHANY | 090144 | TOWN OF WALLINGFORD | 090090 |
| TOWN OF BRANFORD | 090073 | CITY OF WATERBURY | 090091 |
| TOWN OF CHESHIRE | 090074 | CITY OF WEST HAVEN | 090092 |
| CITY OF DERBY | 090075 | TOWN OF WOLCOTT | 090093 |
| TOWN OF EAST HAVEN | 090076 | TOWN OF WOODBRIDGE | 090153 |
| TOWN OF GUILFORD | 090077 | BOROUGH OF WOODMONT | 090168 |
| TOWN OF HAMDEN | 090078 | | |
| TOWN OF MADISON | 090079 | | |
| CITY OF MERIDEN | 090081 | | |
| TOWN OF MIDDLEBURY | 090080 | | |
| CITY OF MILFORD | 090082 | | |
| BOROUGH OF NAUGATUCK | 090137 | | |
| CITY OF NEW HAVEN | 090084 | | |
| TOWN OF NORTH BRANFORD | 090085 | | |
| TOWN OF NORTH HAVEN | 090086 | | |
| TOWN OF ORANGE | 090087 | | |
| TOWN OF OXFORD | 090150 | | |

REVISED:

MAY 16, 2017

FLOOD INSURANCE STUDY NUMBER
09009CV004D

Version Number 2.3.3.2



FEMA

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| Wooster Brook | 470-478 P |

Published Separately

Flood Insurance Rate Map (FIRM)

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 1,870 | 108 | 635 | 4.3 | 22.5 | 22.5 | 23.5 | 1.0 |
| B | 2,180 | 101 | 382 | 7.1 | 22.7 | 22.7 | 23.7 | 1.0 |
| C | 2,344 | 166 | 992 | 2.8 | 27.2 | 27.2 | 28.2 | 1.0 |
| D | 2,787 | 197 | 1,246 | 2.2 | 27.8 | 27.8 | 28.8 | 1.0 |
| E | 3,511 | 124 | 1,066 | 2.6 | 28.2 | 28.2 | 29.2 | 1.0 |
| F | 4,300 | 172 | 1,570 | 1.6 | 32.2 | 32.2 | 33.2 | 1.0 |
| G | 4,796 | 218 | 1,692 | 1.4 | 33.3 | 33.3 | 34.3 | 1.0 |
| H | 4,898 | 211 | 1,670 | 1.5 | 33.3 | 33.3 | 34.3 | 1.0 |
| I | 5,357 | 205 | 4,335 | 0.6 | 49.8 | 49.8 | 50.8 | 1.0 |
| J | 5,650 | 309 | 6,394 | 0.4 | 49.9 | 49.9 | 50.9 | 1.0 |
| K | 6,463 | 224 | 3,634 | 0.7 | 50.3 | 50.3 | 51.3 | 1.0 |
| L | 6,677 | 86 | 1,473 | 1.7 | 50.7 | 50.7 | 51.7 | 1.0 |
| M | 7,035 | 344 | 4,768 | 0.5 | 51.0 | 51.0 | 52.0 | 1.0 |
| N | 7,443 | 345 | 3,988 | 0.6 | 51.1 | 51.1 | 52.1 | 1.0 |
| O | 7,745 | 81 | 600 | 4.1 | 51.4 | 51.4 | 52.4 | 1.0 |
| P | 7,905 | 68 | 742 | 3.3 | 51.9 | 51.9 | 52.9 | 1.0 |
| Q | 8,235 | 379 | 3,557 | 0.7 | 52.1 | 52.1 | 53.1 | 1.0 |
| R | 8,887 | 61 | 462 | 5.3 | 52.5 | 52.5 | 53.5 | 1.0 |
| S | 9,217 | 36 | 332 | 7.3 | 52.7 | 52.7 | 53.7 | 1.0 |
| T | 9,458 | 57 | 386 | 6.3 | 53.3 | 53.3 | 54.3 | 1.0 |
| U | 9,757 | 27 | 241 | 10.1 | 54.4 | 54.4 | 55.4 | 1.0 |
| V | 9,966 | 51 | 338 | 7.2 | 55.5 | 55.5 | 56.5 | 1.0 |
| W | 10,184 | 54 | 346 | 5.3 | 56.4 | 56.4 | 57.4 | 1.0 |
| X | 10,333 | 39 | 263 | 6.9 | 57.1 | 57.1 | 58.1 | 1.0 |

¹Feet above confluence with Quinnipiac River

| | | |
|----------|---|---------------------------------------|
| TABLE 24 | FEDERAL EMERGENCY MANAGEMENT AGENCY NEW HAVEN COUNTY, CONNECTICUT (ALL JURISDICTIONS) | FLOODWAY DATA |
| | | FLOODING SOURCE: WHARTON BROOK |

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Y | 10,552 | 124 | 709 | 2.6 | 59.7 | 59.7 | 60.7 | 1.0 |
| Z | 10,759 | 162 | 1,040 | 1.8 | 59.7 | 59.7 | 60.7 | 1.0 |
| AA | 11,036 | 156 | 973 | 1.9 | 60.0 | 60.0 | 61.0 | 1.0 |
| AB | 11,492 | 157 | 733 | 2.5 | 60.9 | 60.9 | 61.9 | 1.0 |
| AC | 11,709 | 115 | 508 | 3.6 | 62.3 | 62.3 | 63.3 | 1.0 |
| AD | 12,255 | 121 | 613 | 3.0 | 62.8 | 62.8 | 63.8 | 1.0 |
| AE | 12,601 | 33 | 164 | 11.1 | 64.3 | 64.3 | 65.3 | 1.0 |
| AF | 12,796 | 79 | 1,075 | 1.7 | 74.9 | 74.9 | 75.9 | 1.0 |
| AG | 12,976 | 254 | 2,286 | 0.8 | 75.0 | 75.0 | 76.0 | 1.0 |
| AH | 13,502 | 255 | 2,531 | 0.7 | 75.0 | 75.0 | 76.0 | 1.0 |
| AI | 13,672 | 213 | 1,630 | 1.1 | 75.0 | 75.0 | 76.0 | 1.0 |
| AJ | 14,036 | 200 | 1,714 | 1.1 | 75.1 | 75.1 | 76.1 | 1.0 |
| AK | 14,265 | 169 | 1,251 | 1.5 | 75.1 | 75.1 | 76.1 | 1.0 |
| AL | 14,520 | 99 | 412 | 4.4 | 75.1 | 75.1 | 76.1 | 1.0 |
| AM | 14,740 | 83 | 544 | 3.1 | 76.0 | 76.0 | 77.0 | 1.0 |
| AN | 14,999 | 108 | 537 | 3.2 | 78.3 | 78.3 | 79.3 | 1.0 |
| AO | 15,197 | 73 | 578 | 3.0 | 83.0 | 83.0 | 84.0 | 1.0 |
| AP | 15,407 | 63 | 557 | 3.1 | 83.3 | 83.3 | 84.3 | 1.0 |
| AQ | 15,615 | 91 | 562 | 3.0 | 83.4 | 83.4 | 84.4 | 1.0 |
| AR | 15,710 | 87 | 568 | 3.0 | 84.0 | 84.0 | 85.0 | 1.0 |
| AS | 16,155 | 171 | 845 | 2.0 | 84.2 | 84.2 | 85.2 | 1.0 |
| AT | 16,265 | 121 | 511 | 3.3 | 84.6 | 84.6 | 85.6 | 1.0 |
| AU | 16,396 | 147 | 570 | 3.0 | 85.0 | 85.0 | 86.0 | 1.0 |
| AV | 16,885 | 112 | 498 | 3.4 | 86.8 | 86.8 | 87.8 | 1.0 |

¹Feet above confluence with Quinnipiac River

| | | |
|----------|---|---------------------------------------|
| TABLE 24 | FEDERAL EMERGENCY MANAGEMENT AGENCY NEW HAVEN COUNTY, CONNECTICUT (ALL JURISDICTIONS) | FLOODWAY DATA |
| | | FLOODING SOURCE: WHARTON BROOK |

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| AW | 17,202 | 34 | 142 | 12.0 | 87.3 | 87.3 | 87.8 | 0.5 |
| AX | 17,449 | 72 | 548 | 3.1 | 93.5 | 93.5 | 94.5 | 1.0 |
| AY | 17,721 | 205 | 1,430 | 1.2 | 93.8 | 93.8 | 94.8 | 1.0 |
| AZ | 18,187 | 193 | 877 | 1.9 | 94.3 | 94.3 | 95.3 | 1.0 |
| BA | 18,458 | 82 | 258 | 6.6 | 94.8 | 94.8 | 95.8 | 1.0 |
| BB | 19,141 | 42 | 140 | 11.6 | 117.3 | 117.3 | 118.3 | 1.0 |
| BC | 20,986 | 122 | 468 | 3.5 | 122.1 | 122.1 | 123.1 | 1.0 |
| BD | 21,507 | 66 | 258 | 6.3 | 128.0 | 128.0 | 129.0 | 1.0 |
| BE | 22,031 | 71 | 168 | 9.7 | 134.7 | 134.7 | 135.7 | 1.0 |
| BF | 22,307 | 166 | 1,085 | 1.5 | 141.0 | 141.0 | 142.0 | 1.0 |
| BG | 23,519 | 27 | 139 | 11.7 | 154.9 | 154.9 | 155.9 | 1.0 |
| BH | 24,081 | 26 | 148 | 11.0 | 164.6 | 164.6 | 165.6 | 1.0 |
| BI | 24,521 | 35 | 223 | 7.3 | 171.1 | 171.1 | 172.1 | 1.0 |
| BJ | 24,865 | 53 | 374 | 4.3 | 179.2 | 179.2 | 180.2 | 1.0 |
| BK | 26,444 | 49 | 182 | 8.9 | 209.9 | 209.9 | 210.4 | 0.5 |
| BL | 27,416 | 30 | 102 | 5.9 | 218.7 | 218.7 | 219.7 | 1.0 |
| BM | 27,748 | 27 | 133 | 2.3 | 223.5 | 223.5 | 224.5 | 1.0 |
| BN | 28,135 | 19 | 64 | 4.9 | 225.2 | 225.2 | 226.2 | 1.0 |
| BO | 28,615 | 18 | 64 | 4.7 | 229.6 | 229.6 | 230.6 | 1.0 |
| BP | 29,435 | 31 | 77 | 3.7 | 235.4 | 235.4 | 236.4 | 1.0 |
| BQ | 29,902 | 20 | 37 | 7.1 | 243.8 | 243.8 | 244.8 | 1.0 |
| BR | 30,100 | 45 | 73 | 3.4 | 247.2 | 247.2 | 248.2 | 1.0 |
| BS | 30,260 | 28 | 71 | 3.6 | 255.2 | 255.2 | 255.7 | 0.5 |
| BT | 32,480 | 38 | 37 | 6.0 | 300.8 | 300.8 | 301.3 | 0.5 |

¹Feet above confluence with Quinnipiac River

| | | |
|----------|---|---------------------------------------|
| TABLE 24 | FEDERAL EMERGENCY MANAGEMENT AGENCY NEW HAVEN COUNTY, CONNECTICUT (ALL JURISDICTIONS) | FLOODWAY DATA |
| | | FLOODING SOURCE: WHARTON BROOK |

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| BU | 33,598 | 23 | 51 | 3.6 | 312.3 | 312.3 | 312.8 | 0.5 |
| BV | 35,005 | 16 | 24 | 6.9 | 319.9 | 319.9 | 320.4 | 0.5 |

¹Feet above confluence with Quinnipiac River

| | | |
|----------|---|---------------------------------------|
| TABLE 24 | FEDERAL EMERGENCY MANAGEMENT AGENCY NEW HAVEN COUNTY, CONNECTICUT (ALL JURISDICTIONS) | FLOODWAY DATA |
| | | FLOODING SOURCE: WHARTON BROOK |

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|----------|--------------|-------------------------|--------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 490 | 42 | 36 | 5.2 | 162.6 | 162.6 | 162.6 | 0.0 |
| B | 1,428 | 6 | 25 | 7.4 | 279.1 | 279.1 | 279.2 | 0.1 |
| C | 2,073 | 15 | 25 | 7.4 | 341.5 | 341.5 | 341.5 | 0.0 |
| D | 2,240 | 18 | 30 | 6.3 | 349.8 | 349.8 | 349.8 | 0.0 |
| E | 2,767 | 58 | 48 | 3.9 | 358.3 | 358.3 | 358.4 | 0.1 |
| F | 3,154 | 39 | 23 | 8.1 | 362.8 | 362.8 | 363.6 | 0.8 |
| G | 4,042 | 51 | 57 | 3.3 | 377.8 | 377.8 | 378.0 | 0.2 |
| H | 4,344 | 33 | 33 | 5.7 | 390.7 | 390.7 | 390.7 | 0.0 |
| I | 4,552 | 76 | 43 | 4.3 | 396.8 | 396.8 | 396.8 | 0.0 |

¹Feet above confluence with Beaver Brook No. 1

| | | |
|----------|---|---|
| TABLE 24 | FEDERAL EMERGENCY MANAGEMENT AGENCY NEW HAVEN COUNTY, CONNECTICUT (ALL JURISDICTIONS) | FLOODWAY DATA |
| | | FLOODING SOURCE: WHITEMARE BROOK |

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 1,075 | 370 | 2,339 | 1.1 | 114.2 | 114.2 | 115.2 | 1.0 |
| B | 1,315 | 400 | 2,191 | 1.2 | 114.3 | 114.3 | 115.3 | 1.0 |
| C | 1,925 | 400 | 2,277 | 1.1 | 114.6 | 114.6 | 115.5 | 0.9 |
| D | 2,205 | 80 | 577 | 4.4 | 114.7 | 114.7 | 115.6 | 0.9 |
| E | 2,325 | 144 | 1,140 | 2.2 | 115.7 | 115.7 | 116.3 | 0.6 |
| F | 3,025 | 180 | 1,281 | 2.0 | 116.2 | 116.2 | 117.1 | 0.9 |
| G | 3,775 | 200 | 918 | 2.2 | 116.4 | 116.4 | 117.3 | 0.9 |
| H | 4,585 | 405 | 1,540 | 1.3 | 116.5 | 116.5 | 117.4 | 0.9 |
| I | 5,455 | 230 | 892 | 2.2 | 117.6 | 117.6 | 118.6 | 1.0 |
| J | 5,975 | 140 | 626 | 3.2 | 120.0 | 120.0 | 120.8 | 0.8 |
| K | 6,675 | 180 | 812 | 2.5 | 121.9 | 121.9 | 122.7 | 0.8 |
| L | 7,557 | 180 | 765 | 2.6 | 123.8 | 123.8 | 124.7 | 0.9 |
| M | 7,657 | 180 | 573 | 3.5 | 124.9 | 124.9 | 125.9 | 1.0 |
| N | 9,160 | 431 | 361 | 3.0 | 129.7 | 129.7 | 130.3 | 0.6 |
| O | 10,410 | 368 | 276 | 2.7 | 138.0 | 138.0 | 138.6 | 0.6 |
| P | 10,460 | 287 | 541 | 1.8 | 138.4 | 138.4 | 139.0 | 0.6 |
| Q | 13,210 | 226 | 1,076 | 0.6 | 139.3 | 139.3 | 140.1 | 0.8 |
| R | 15,200 | 182 | 443 | 0.6 | 139.6 | 139.6 | 140.4 | 0.8 |
| S | 15,810 | 37 | 116 | 2.5 | 140.1 | 140.1 | 140.6 | 0.5 |
| T | 15,890 | 58 | 154 | 1.9 | 140.8 | 140.8 | 141.6 | 0.8 |
| U | 18,910 | 68 | 122 | 2.4 | 146.0 | 146.0 | 146.1 | 0.1 |
| V | 18,960 | 49 | 214 | 1.9 | 146.2 | 146.2 | 147.0 | 0.8 |
| W | 21,700 | 101 | 477 | 0.8 | 147.0 | 147.0 | 148.0 | 1.0 |
| X | 22,940 | 39 | 162 | 2.5 | 147.5 | 147.5 | 148.4 | 0.9 |

¹Feet above confluence with Mill River

| | | |
|----------|---|--|
| TABLE 24 | FEDERAL EMERGENCY MANAGEMENT AGENCY NEW HAVEN COUNTY, CONNECTICUT (ALL JURISDICTIONS) | FLOODWAY DATA |
| | | FLOODING SOURCE: WILLOW BROOK NO. 1 |

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Y | 23,530 | 102 | 495 | 0.8 | 147.8 | 147.8 | 148.8 | 1.0 |
| Z | 23,560 | 102 | 486 | 0.8 | 147.8 | 147.8 | 148.8 | 1.0 |
| AA | 24,210 | 67 | 281 | 1.4 | 148.0 | 148.0 | 148.9 | 0.9 |
| AB | 24,245 | 171 | 841 | 0.2 | 149.5 | 149.5 | 150.5 | 1.0 |
| AC | 26,350 | 104 | 342 | 0.5 | 149.5 | 149.5 | 150.5 | 1.0 |
| AD | 28,195 | 15 | 27 | 6.8 | 152.0 | 152.0 | 152.2 | 0.2 |
| AE | 28,239 | 53 | 236 | 0.8 | 155.6 | 155.6 | 156.6 | 1.0 |
| AF | 30,875 | 45 | 145 | 1.3 | 156.3 | 156.3 | 157.3 | 1.0 |

¹Feet above confluence with Mill River

| | | |
|----------|---|--|
| TABLE 24 | FEDERAL EMERGENCY MANAGEMENT AGENCY NEW HAVEN COUNTY, CONNECTICUT (ALL JURISDICTIONS) | FLOODWAY DATA |
| | | FLOODING SOURCE: WILLOW BROOK NO. 1 |

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 900 | 63 | 499 | 5.5 | 14.5 | 14.5 | 15.2 | 0.7 |
| B | 1,502 | 113 | 924 | 2.8 | 18.4 | 18.4 | 19.4 | 1.0 |
| C | 3,650 | 80 | 660 | 3.9 | 21.7 | 21.7 | 22.7 | 1.0 |
| D | 6,275 | 43 | 387 | 6.7 | 26.2 | 26.2 | 27.2 | 1.0 |

¹Feet above mouth

| | | |
|----------|---|---|
| TABLE 24 | FEDERAL EMERGENCY MANAGEMENT AGENCY NEW HAVEN COUNTY, CONNECTICUT (ALL JURISDICTIONS) | FLOODWAY DATA |
| | | FLOODING SOURCE: WINTERGREEN BROOK |

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 54 | 128 | 632 | 1.2 | 45.9 | 45.9 | 46.9 | 1.0 |
| B | 1,052 | 41 | 131 | 5.7 | 51.1 | 51.1 | 51.6 | 0.5 |
| C | 1,337 | 80 | 955 | 1.4 | 69.0 | 69.0 | 70.0 | 1.0 |
| D | 2,696 | 44 | 266 | 5.1 | 71.5 | 71.5 | 72.5 | 1.0 |
| E | 2,866 | 232 | 1,607 | 0.8 | 75.5 | 75.5 | 76.5 | 1.0 |
| F | 3,274 | 46 | 160 | 8.4 | 78.0 | 78.0 | 79.0 | 1.0 |
| G | 4,181 | 31 | 141 | 9.5 | 94.0 | 94.0 | 94.5 | 0.5 |
| H | 4,383 | 94 | 782 | 1.7 | 103.1 | 103.1 | 104.1 | 1.0 |
| I | 4,870 | 47 | 146 | 10.0 | 105.7 | 105.7 | 106.2 | 0.5 |
| J | 5,286 | 43 | 94 | 8.1 | 109.4 | 109.4 | 110.4 | 1.0 |
| K | 6,848 | 31 | 86 | 6.4 | 130.6 | 130.6 | 131.1 | 0.5 |
| L | 7,053 | 30 | 147 | 3.7 | 137.1 | 137.1 | 138.1 | 1.0 |

¹Feet above confluence with Quinnipiac River

| | | |
|----------|---|---|
| TABLE 24 | FEDERAL EMERGENCY MANAGEMENT AGENCY NEW HAVEN COUNTY, CONNECTICUT (ALL JURISDICTIONS) | FLOODWAY DATA |
| | | FLOODING SOURCE: WOODINGS POND BROOK |

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| A | 4,700 | 52 | 257 | 2.6 | 370.8 | 370.8 | 371.8 | 1.0 |
| B | 5,380 | 124 | 459 | 1.4 | 371.4 | 371.4 | 372.2 | 0.8 |
| C | 6,100 | 31 | 101 | 6.6 | 372.0 | 372.0 | 372.4 | 0.4 |
| D | 6,325 | 104 | 586 | 1.1 | 378.8 | 378.8 | 378.9 | 0.1 |
| E | 6,950 | 29 | 80 | 8.3 | 391.1 | 391.1 | 391.1 | 0.0 |
| F | 6,961 | 38 | 172 | 3.9 | 392.5 | 392.5 | 392.5 | 0.0 |
| G | 7,450 | 75 | 443 | 1.5 | 403.2 | 403.2 | 403.2 | 0.0 |
| H | 7,615 | 165 | 826 | 0.8 | 403.3 | 403.3 | 403.3 | 0.0 |
| I | 7,705 | 105 | 218 | 2.1 | 403.3 | 403.3 | 403.3 | 0.0 |
| J | 8,195 | 27 | 57 | 8.2 | 434.7 | 434.7 | 434.7 | 0.0 |
| K | 8,820 | 46 | 67 | 6.9 | 456.8 | 456.8 | 456.8 | 0.0 |
| L | 9,166 | 24 | 54 | 8.6 | 469.0 | 469.0 | 469.0 | 0.0 |
| M | 9,325 | 54 | 411 | 1.1 | 482.8 | 482.8 | 482.8 | 0.0 |
| N | 9,730 | 49 | 69 | 6.7 | 482.9 | 482.9 | 482.9 | 0.0 |
| O | 10,055 | 101 | 102 | 4.5 | 488.9 | 488.9 | 489.0 | 0.1 |
| P | 10,400 | 72 | 105 | 4.4 | 516.9 | 516.9 | 516.9 | 0.0 |
| Q | 10,650 | 88 | 115 | 4.0 | 531.8 | 531.8 | 531.8 | 0.0 |
| R | 11,445 | 79 | 106 | 4.4 | 550.3 | 550.3 | 550.3 | 0.0 |
| S | 12,285 | 33 | 60 | 7.7 | 570.9 | 570.9 | 571.2 | 0.3 |
| T | 12,875 | 168 | 99 | 3.8 | 587.1 | 587.1 | 587.1 | 0.0 |
| U | 13,260 | 481 | 2,844 | 0.1 | 589.6 | 589.6 | 589.6 | 0.0 |
| V | 13,700 | 576 | 2,923 | 0.1 | 589.6 | 589.6 | 589.6 | 0.0 |
| W | 14,455 | 729 | 3,872 | 0.1 | 589.6 | 589.6 | 589.6 | 0.0 |
| X | 15,300 | 392 | 1,719 | 0.2 | 589.6 | 589.6 | 589.6 | 0.0 |

¹Feet above mouth

| | | |
|----------|---|---------------------------------------|
| TABLE 24 | FEDERAL EMERGENCY MANAGEMENT AGENCY NEW HAVEN COUNTY, CONNECTICUT (ALL JURISDICTIONS) | FLOODWAY DATA |
| | | FLOODING SOURCE: WOOSTER BROOK |

| LOCATION | | FLOODWAY | | | 1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88) | | | |
|---------------|-----------------------|--------------|-------------------------|--------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQ. FEET) | MEAN VELOCITY (FEET/SEC) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Y | 15,555 | 305 | 1,133 | 0.3 | 589.6 | 589.6 | 589.6 | 0.0 |
| Z | 15,855 | 106 | 113 | 2.2 | 589.6 | 589.6 | 589.6 | 0.0 |
| AA | 16,300 | 109 | 686 | 0.4 | 596.6 | 596.6 | 596.6 | 0.0 |

¹Feet above mouth

| | | |
|----------|---|---------------------------------------|
| TABLE 24 | FEDERAL EMERGENCY MANAGEMENT AGENCY NEW HAVEN COUNTY, CONNECTICUT (ALL JURISDICTIONS) | FLOODWAY DATA |
| | | FLOODING SOURCE: WOOSTER BROOK |

Table 25: Flood Hazard and Non-Encroachment Data for Selected Streams

[Not Applicable to this Flood Risk Project]

6.4 Coastal Flood Hazard Mapping

Flood insurance zones and BFEs including the wave effects were identified on each transect based on the results from the onshore wave hazard analyses. Between transects, elevations were interpolated using topographic maps, land-use and land-cover data, and knowledge of coastal flood processes to determine the aerial extent of flooding. Sources for topographic data are shown in Table 23.

Zone VE is subdivided into elevation zones and BFEs are provided on the FIRM.

The limit of Zone VE shown on the FIRM is defined as the farthest inland extent of any of these criteria (determined for the 1% annual chance flood condition):

- The *primary frontal dune zone* is defined in 44 CFR Section 59.1 of the NFIP regulations. The primary frontal dune represents a continuous or nearly continuous mound or ridge of sand with relatively steep seaward and landward slopes that occur immediately landward and adjacent to the beach. The primary frontal dune zone is subject to erosion and overtopping from high tides and waves during major coastal storms. The inland limit of the primary frontal dune zone occurs at the point where there is a distinct change from a relatively steep slope to a relatively mild slope.
- The *wave runup zone* occurs where the (eroded) ground profile is 3.0 feet or more below the 2-percent wave runup elevation.
- The *wave overtopping splash zone* is the area landward of the crest of an overtopped barrier, in cases where the potential 2-percent wave runup exceeds the barrier crest elevation by 3.0 feet or more.
- The *breaking wave height zone* occurs where 3-foot or greater wave heights could occur (this is the area where the wave crest profile is 2.1 feet or more above the total stillwater elevation).
- The *high-velocity flow zone* is landward of the overtopping splash zone (or area on a sloping beach or other shore type), where the product of depth of flow times the flow velocity squared (hv^2) is greater than or equal to $200 \text{ ft}^3/\text{sec}^2$. This zone may only be used on the Pacific Coast.

The SFHA boundary indicates the limit of SFHAs shown on the FIRM as either “V” zones or “A” zones.

Table 26 indicates the coastal analyses used for floodplain mapping and the criteria used to determine the inland limit of the open-coast Zone VE and the SFHA boundary at each transect.

Table 26: Summary of Coastal Transect Mapping Considerations

| Coastal Transect | Primary Frontal Dune (PFD) Identified | Wave Runup Analysis | Wave Height Analysis | Zone VE Limit | SFHA Boundary |
|------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------|---------------|
| | | Zone Designation and BFE (ft NAVD 88) | Zone Designation and BFE (ft NAVD 88) | | |
| 1 | | 10.6 | VE 13-16 AE 11-13 | Overland Wave Propagation | |
| 2 | | 12.5 | VE 15-19 AE 12-15 | Overtopping | |
| 3 | | 12.3 | VE 14-18 AE 12-14 | Overtopping | |
| 4 | | 10.8 | VE 13-16 AE 11-13 | Overland Wave Propagation | |
| 5 | | 11.8 | VE 17 | Overtopping | |
| 6 | | 10.7 | VE 13-16 AE 11-13 | Overland Wave Propagation | |
| 7 | | 12.4 | VE 19 AE 13 | Runup | |
| 8 | | 10.9 | VE 13-16 AE 11-13 | Overtopping | |
| 9 | | 12.4 | VE 20 AE 12 | Overtopping | |
| 10 | | 12.2 | VE 24 AE 14 | Runup | |
| 11 | | 11.1 | VE 13-17 AE 11-13 | Overland Wave | |
| 12 | | 11.6 | VE 14-17 AE 12-14 | Overtopping | |
| 13 | | 12.4 | VE 14-19 AE 12-14 | Overtopping | |
| 14 | | 12.4 | VE 17 | Runup | |
| 15 | | 10.7 | VE 13-16 AE 11-13 | Overland Wave Propagation | |
| 16 | ✓ | 10.3 | VE 12-16 AE 10-12 | Primary Frontal Dune | |
| 17 | | 10.3 | VE 12-15 AE 10-12 | Overland Wave Propagation | |

Table 26: Summary of Coastal Transect Mapping Considerations

| Coastal Transect | Primary Frontal Dune (PFD) Identified | Wave Runup Analysis | Wave Height Analysis | Zone VE Limit | SFHA Boundary |
|------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------|---------------|
| | | Zone Designation and BFE (ft NAVD 88) | Zone Designation and BFE (ft NAVD 88) | | |
| 18 | | 9.7 | VE 12-14 AE 10-12 | Overland Wave Propagation | |
| 19 | | 11.3 | VE 13-17 AE 11-13 | Overtopping | |
| 20 | | 10.9 | VE 13-16 AE 11-13 | Overtopping | |
| 21 | | 12.5 | VE 15-19 AE 13-15 | Overtopping | |
| 22 | | 11.4 | VE 12-15 AE 10-12 | Overtopping | |
| 23 | | 10.5 | VE 17 AE 11-13 | Overtopping | |
| 24 | | 10.8 | VE 13-16 AE 11-13 | Overtopping | |
| 25 | | 11.7 | VE 14-18 AE 12-14 | Overtopping | |
| 26 | | 10.3 | VE 12-15 AE 10-12 | Overland Wave Propagation | |
| 27 | | 11.4 | VE 13-17 AE 12-13 | Overtopping | |
| 28 | | 10.6 | VE 14-18 AE 12-14 | Overland Wave Propagation | |
| 29 | | 10.9 | VE 13-16 AE 11-13 | Overland Wave Propagation | |
| 30 | | 11.3 | VE 13-17 AE 11-13 | Overtopping | |
| 31 | | 11.4 | VE 14-17 AE 11-14 | Overtopping | |
| 32 | | 10.7 | VE 21 | Overtopping | |
| 33 | | 12.2 | VE 1-14 AE 13-14 | Overtopping | |

Table 26: Summary of Coastal Transect Mapping Considerations

| Coastal Transect | Primary Frontal Dune (PFD) Identified | Wave Runup Analysis | Wave Height Analysis | Zone VE Limit | SFHA Boundary |
|------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------|---------------|
| | | Zone Designation and BFE (ft NAVD 88) | Zone Designation and BFE (ft NAVD 88) | | |
| 34 | | 11.3 | VE 15-17 AE 11-12 | Overland Wave Propagation | |
| 35 | | 11 | VE 13-16 AE 11-13 | Overland Wave Propagation | |
| 36 | | 11.7 | VE 14-18 AE 12-14 | Overtopping | |
| 37 | | 11.9 | VE 14 AE 12-14 | Overtopping | |
| 38 | | 10.3 | VE 12-15 AE 10-12 | Overland Wave Propagation | |
| 39 | | 11.7 | VE 14-18 AE 12-14 | Overland Wave | |
| 40 | | 10.5 | VE 13-16 AE 10-13 | Overland Wave Propagation | |
| 41 | | 11.2 | VE 13-17 AE 11-13 | Overtopping | |
| 42 | | 10.8 | VE 13-16 AE 11-13 | Overtopping | |
| 43 | | 11.3 | VE 15 | Overtopping | |
| 44 | | 10.2 | VE 12-15 AE 10-12 | Overland Wave Propagation | |
| 45 | | 12.2 | VE 17 AE 12-14 | Runup | |
| 46 | | 11.1 | VE 13-17 AE 11-13 | Overland Wave Propagation | |
| 47 | | 11 | VE 13-16 AE 11-13 | Overland Wave Propagation | |
| 48 | | 11.8 | VE 14-18 AE 12-14 | Overtopping | |

Table 26: Summary of Coastal Transect Mapping Considerations

| Coastal Transect | Primary Frontal Dune (PFD) Identified | Wave Runup Analysis | Wave Height Analysis | Zone VE Limit | SFHA Boundary |
|------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------|---------------|
| | | Zone Designation and BFE (ft NAVD 88) | Zone Designation and BFE (ft NAVD 88) | | |
| 49 | | 10.3 | VE 12-16 AE 10-12 | Overland Wave Propagation | |
| 50 | | 11.6 | VE 14-17 AE 12-14 | Overtopping | |
| 51 | | 11.2 | VE 13-17 AE 11-13 | Overland Wave Propagation | |
| 52 | | 11.8 | VE 14-18 AE 12-14 | Overtopping | |
| 53 | | 12 | VE 14-18 AE 12-14 | Overtopping | |
| 54 | | 11.7 | VE 19 | Overtopping | |
| 55 | | 11.1 | VE 13-17 AE 12-13 | Overland Wave Propagation | |

A LiMWA boundary has also been added in coastal areas subject to wave action for use by local communities in safe rebuilding practices. The LiMWA represents the approximate landward limit of the 1.5-foot breaking wave. To simplify representation, the LiMWA was continued immediately landward of the VE/AE boundary in areas where wave runup elevations dominate. Similarly, in areas where the Zone VE designation is based on the presence of a primary frontal dune or wave overtopping, the LiMWA was delineated immediately landward of the Zone VE/AE boundary.

6.5 FIRM Revisions

This FIS Report and the FIRM are based on the most up-to-date information available to FEMA at the time of its publication; however, flood hazard conditions change over time. Communities or private parties may request flood map revisions at any time. Certain types of requests require submission of supporting data. FEMA may also initiate a revision. Revisions may take several forms, including Letters of Map Amendment (LOMAs), Letters of Map Revision Based on Fill (LOMR-Fs), Letters of Map Revision (LOMRs) (referred to collectively as Letters of Map Change (LOMCs)), Physical Map Revisions (PMRs), and FEMA-contracted restudies. These types of revisions are further described below. Some of these types of revisions do not result in the republishing of the FIS Report. To assure that any user is aware of all revisions, it is advisable to contact the community repository of flood-hazard data (shown in Table 31, “Map Repositories”).

6.5.1 Letters of Map Amendment

A LOMA is an official revision by letter to an effective NFIP map. A LOMA results from an administrative process that involves the review of scientific or technical data submitted by the owner or lessee of property who believes the property has incorrectly been included in a designated SFHA. A LOMA amends the currently effective FEMA map and establishes that a specific property is not located in a SFHA. A LOMA cannot be issued for properties located on the PFD (primary frontal dune).

To obtain an application for a LOMA, visit <http://www.fema.gov> and download the form “MT-1 Application Forms and Instructions for Conditional and Final Letters of Map Amendment and Letters of Map Revision Based on Fill”. Visit the “Flood Map-Related Fees” section to determine the cost, if any, of applying for a LOMA.

FEMA offers a tutorial on how to apply for a LOMA. The LOMA Tutorial Series can be accessed at http://www.fema.gov/plan/prevent/fhm/ot_lmreq.shtm.

For more information about how to apply for a LOMA, call the FEMA Map Information eXchange; toll free, at 1-877-FEMA MAP (1-877-336-2627).

6.5.2 Letters of Map Revision Based on Fill

A LOMR-F is an official revision by letter to an effective NFIP map. A LOMR-F states FEMA’s determination concerning whether a structure or parcel has been elevated on fill above the base flood elevation and is, therefore, excluded from the SFHA.

Information about obtaining an application for a LOMR-F can be obtained in the same manner as that for a LOMA, by visiting <http://www.fema.gov> for the “MT-1 Application Forms and Instructions for Conditional and Final Letters of Map Amendment and Letters of Map Revision Based on Fill” or by calling the FEMA Map Information eXchange, toll free, at 1-877-FEMA MAP (1-877-336-2627). Fees for applying for a LOMR-F, if any, are listed in the “Flood Map-Related Fees” section.

A tutorial for LOMR-F is available at http://www.fema.gov/plan/prevent/fhm/ot_lmreq.shtm.

6.5.4 Letters of Map Revision

A LOMR is an official revision to the currently effective FEMA map. It is used to change flood zones, floodplain and floodway delineations, flood elevations and planimetric features. All requests for LOMRs should be made to FEMA through the chief executive officer of the community, since it is the community that must adopt any changes and revisions to the map. If the request for a LOMR is not submitted through the chief executive officer of the community, evidence must be submitted that the community has been notified of the request.

To obtain an application for a LOMR, visit <http://www.fema.gov> and download the form “MT-2 Application Forms and Instructions for Conditional Letters of Map Revision and Letters of Map Revision”. Visit the “Flood Map-Related Fees” section to determine the cost of applying for a LOMR. For more information about how to apply for a LOMR, call the FEMA Map Information eXchange; toll free, at 1-877-FEMA MAP (1-877-336-2627) to speak to a Map Specialist.

Previously issued mappable LOMCs (including LOMRs) that have been incorporated into the New Haven County FIRM are listed in Table 27. Please note that this table only includes LOMCs

that have been issued on the FIRM panels updated by this map revision. For all other areas within this county, users should be aware that revisions to the FIS Report made by prior LOMRs may not be reflected herein and users will need to continue to use the previously issued LOMRs to obtain the most current data.

Table 27: Incorporated Letters of Map Change

| Case Number | Effective Date | Flooding Source | FIRM Panel(s) |
|-------------|----------------|-----------------|--|
| 12-01-1133P | 02/01/2013 | Harbor Brook | 09009C0162H ¹ , 09009C0164J, 09009C0166H ¹ , 09009C0167J, 09009C0168H ¹ |

¹ Although a portion of LOMR 12-01-1133P falls within the scope of this map revision, panels 09009C0162H, 09009C0166H, and 09009C0168H were not revised. Therefore, users must continue to refer to the annotated FIRM attachment for this LOMR for FIRM panels 09009C0162H, 09009C0166H, and 09009C0168H.

6.5.3 Physical Map Revisions

PMRs are an official republication of a community’s NFIP map to effect changes to base flood elevations, floodplain boundary delineations, regulatory floodways and planimetric features. These changes typically occur as a result of structural works or improvements, annexations resulting in additional flood hazard areas or correction to base flood elevations or SFHAs.

The community’s chief executive officer must submit scientific and technical data to FEMA to support the request for a PMR. The data will be analyzed and the map will be revised if warranted. The community is provided with copies of the revised information and is afforded a review period. When the base flood elevations are changed, a 90-day appeal period is provided. A 6-month adoption period for formal approval of the revised map(s) is also provided.

For more information about the PMR process, please visit <http://www.fema.gov> and visit the “Flood Map Revision Processes” section.

6.5.4 Contracted Restudies

The NFIP provides for a periodic review and restudy of flood hazards within a given community. FEMA accomplishes this through a national watershed-based mapping needs assessment strategy, known as the Coordinated Needs Management Strategy (CNMS). The CNMS is used by FEMA to assign priorities and allocate funding for new flood hazard analyses used to update the FIS Report and FIRM. The goal of CNMS is to define the validity of the engineering study data within a mapped inventory. The CNMS is used to track the assessment process, document engineering gaps and their resolution, and aid in prioritization for using flood risk as a key factor for areas identified for flood map updates. Visit www.fema.gov to learn more about the CNMS or contact the FEMA Regional Office listed in Section 8 of this FIS Report.

6.5.5 Community Map History

The current FIRM presents flooding information for the entire geographic area of New Haven County. Previously, separate FIRMs, Flood Hazard Boundary Maps (FHBMs) and/or Flood Boundary and Floodway Maps (FBFMs) may have been prepared for the incorporated

communities and the unincorporated areas in the county that had identified SFHAs. Current and historical data relating to the maps prepared for the project area are presented in Table 28, “Community Map History.” A description of each of the column headings and the source of the date is also listed below.

- *Community Name* includes communities falling within the geographic area shown on the FIRM, including those that fall on the boundary line, nonparticipating communities, and communities with maps that have been rescinded. Communities with No Special Flood Hazards are indicated by a footnote. If all maps (FHBM, FBFM, and FIRM) were rescinded for a community, it is not listed in this table unless SFHAs have been identified in this community.
- *Initial Identification Date (First NFIP Map Published)* is the date of the first NFIP map that identified flood hazards in the community. If the FHBM has been converted to a FIRM, the initial FHBM date is shown. If the community has never been mapped, the upcoming effective date or “pending” (for Preliminary FIS Reports) is shown. If the community is listed in Table 28 but not identified on the map, the community is treated as if it were unmapped.
- *Initial FHBM Effective Date* is the effective date of the first Flood Hazard Boundary Map (FHBM). This date may be the same date as the Initial NFIP Map Date.
- *FHBM Revision Date(s)* is the date(s) that the FHBM was revised, if applicable.
- *Initial FIRM Effective Date* is the date of the first effective FIRM for the community. This is the first effective date that is shown on the FIRM panel.
- *FIRM Revision Date(s)* is the date(s) the FIRM was revised, if applicable. This is the revised date that is shown on the FIRM panel, if applicable. As countywide studies are completed or revised, each community listed should have its FIRM dates updated accordingly to reflect the date of the countywide study. Once the FIRMs exist in countywide format, as Physical Map Revisions (PMR) of FIRM panels within the county are completed, the FIRM Revision Dates in the table for each community affected by the PMR are updated with the date of the PMR, even if the PMR did not revise all the panels within that community.

The initial effective date for the New Haven County FIRMs in countywide format was 12/17/2010.

Table 28: Community Map History

| Community Name | Initial Identification Date (First NFIP Map Published) | Initial FHBM Effective Date | FHBM Revision Date(s) | Initial FIRM Effective Date | FIRM Revision Date(s) |
|----------------------|--|-----------------------------|-----------------------|-----------------------------|--|
| City of Ansonia | 05/03/1974 | 05/03/1974 | 03/11/1977 | 09/02/1981 | 05/18/1992 12/17/2010 10/16/2013 05/16/2017 |
| Town of Beacon Falls | 05/03/1974 | 05/03/1974 | None | 03/01/1979 | 12/17/2010 |

Table 28: Community Map History

| Community Name | Initial Identification Date (First NFIP Map Published) | Initial FHBM Effective Date | FHBM Revision Date(s) | Initial FIRM Effective Date | FIRM Revision Date(s) |
|--------------------|--|-----------------------------|-----------------------|-----------------------------|--|
| Town of Bethany | 07/26/1974 | 07/26/1974 | None | 08/23/1977 | 12/02/1980 12/17/2010 |
| Town of Branford | 07/26/1974 | 07/26/1974 | 11/26/1976 | 12/15/1977 | 04/18/1983 06/16/1992 12/17/2010 07/08/2013 05/16/2017 |
| Town of Cheshire | 04/05/1974 | 04/05/1974 | 06/21/1977 | 07/16/1981 | 11/03/1989 08/02/1995 04/15/2002 12/17/2010 05/16/2017 |
| City of Derby | 06/28/1974 | 06/28/1974 | None | 09/15/1977 | 07/16/1991 12/17/2010 10/16/2013 05/16/2017 |
| Town of East Haven | 06/28/1974 | 06/28/1974 | 08/27/1976 | 02/01/1978 | 03/16/1983 01/17/1991 11/19/1997 01/02/2003 12/17/2010 07/08/2013 05/16/2017 |
| Town of Guilford | 08/02/1974 | 08/02/1974 | None | 05/01/1978 | 08/19/1986 12/17/2010 07/08/2013 05/16/2017 |
| Town of Hamden | 01/04/1974 | 01/04/1974 | 05/17/1977 | 06/15/1979 | 12/17/2010 07/08/2013 05/16/2017 |
| Town of Madison | 05/31/1974 | 05/31/1974 | None | 09/15/1978 | 07/05/1984 11/04/1992 08/02/1995 12/17/2010 07/08/2013 |
| City of Meriden | 06/14/1974 | 06/14/1974 | 08/16/1977 | 09/30/1982 | 11/20/2000 12/17/2010 05/16/2017 |
| Town of Middlebury | 09/06/1974 | 09/06/1974 | 04/15/1977 | 10/16/1979 | 12/17/2010 |

Table 28: Community Map History

| Community Name | Initial Identification Date (First NFIP Map Published) | Initial FHBM Effective Date | FHBM Revision Date(s) | Initial FIRM Effective Date | FIRM Revision Date(s) |
|------------------------|--|-----------------------------|-----------------------|-----------------------------|--|
| City of Milford | 10/18/1974 | 10/18/1974 | 08/02/1977 | 09/29/1978 | 08/15/1983 10/01/1983 07/02/1987 06/16/1992 11/06/1996 09/07/1999 12/17/2010 07/08/2013 05/16/2017 |
| Borough of Naugatuck | 06/28/1974 | 06/28/1974 | 02/18/1977 | 08/15/1979 | 12/17/2010 |
| City of New Haven | 06/07/1974 | 06/07/1974 | 09/10/1976 | 07/16/1980 | 05/02/1983 06/16/1992 12/17/2010 07/08/2013 05/16/2017 |
| Town of North Branford | 06/21/1974 | 06/21/1974 | None | 07/03/1978 | 12/17/2010 07/08/2013 05/16/2017 |
| Town of North Haven | 05/24/1974 | 05/24/1974 | None | 09/17/1980 | 05/01/1985 12/17/2010 07/08/2013 05/16/2017 |
| Town of Orange | 09/14/1973 | 09/14/1973 | 12/10/1976 | 03/18/1980 | 08/02/1995 12/17/2010 07/08/2013 05/16/2017 |
| Town of Oxford | 06/28/1974 | 06/28/1974 | 12/17/1976 | 12/04/1979 | 03/18/1991 12/17/2010 |
| Town of Prospect | 06/21/1974 | 06/21/1974 | None | 02/04/1977 | 05/16/1995 12/17/2010 05/16/2017 |
| Town of Seymour | 07/26/1974 01/07/1977 | 07/26/1974 | None | 07/03/1978 | 04/16/1991 12/17/2010 10/16/2013 |
| Town of Southbury | 02/08/1974 | 02/08/1974 | 10/17/1975 | 03/28/1980 | 12/11/1981 12/17/2010 |
| Town of Wallingford | 08/02/1974 | 08/02/1974 | None | 09/15/1978 | 06/04/1990 04/16/1991 09/07/2000 12/17/2010 05/16/2017 |
| City of Waterbury | 03/22/1974 | 03/22/1974 | 06/07/1977 | 11/01/1979 | 12/17/2010 |

Table 28: Community Map History

| Community Name | Initial Identification Date (First NFIP Map Published) | Initial FHBM Effective Date | FHBM Revision Date(s) | Initial FIRM Effective Date | FIRM Revision Date(s) |
|---------------------|--|-----------------------------|-----------------------|-----------------------------|--|
| City of West Haven | 05/31/1974 | 05/31/1974 | None | 01/17/1979 | 04/18/1983 06/16/1992 12/17/2010 07/08/2013 |
| Town of Wolcott | 05/03/1974 | 05/03/1974 | 11/26/1976 | 07/05/1982 | 12/17/2010 |
| Town of Woodbridge | 06/28/1974 | 06/28/1974 | 11/19/1976 | 03/16/1981 | 03/18/1991 12/17/2010 05/16/2017 |
| Borough of Woodmont | 10/18/1974 | 10/18/1974 | 08/02/1977 | 09/29/1978 | 08/15/1983 10/01/1983 07/02/1987 06/16/1992 11/06/1996 09/07/1999 12/17/2010 07/08/2013 |

SECTION 7.0 – CONTRACTED STUDIES AND COMMUNITY COORDINATION

7.1 Contracted Studies

Table 29 provides a summary of the contracted studies, by flooding source, that are included in this FIS Report.

Table 29: Summary of Contracted Studies Included in this FIS Report

| Flooding Source | FIS Report Dated | Contractor | Number | Work Completed Date | Affected Communities |
|-----------------------------|--------------------|------------------------------|------------------|---------------------|--|
| Beacon Hill Brook | Feb, 1979 | Harris-Toups Associates | H-3987 | September, 1977 | Town of Beacon Falls, Borough of Naugatuck |
| Beaver Brook No. 1 | May, 1992 | Genovese & Associates | EMW-89-C-2818 | November, 1989 | City of Ansonia |
| Beaver Brook No. 2 | July, 1987 | Flaherty-Giavara Associates | EMW-84-C-1594 | September, 1985 | City of Milford |
| Beaver Brook No. 3 | January, 1980 | Soil Conservation Service | IAA-H-9-76 | October, 1977 | City of New Haven |
| Beaver Pond Brook | May, 1979 | Harris-Toups Associates | H-3987 | November, 1977 | City of Waterbury |
| Bladens River (Lower Reach) | January, 1978 | Harris-Toups Associates | H-3987 | July, 1977 | Town of Seymour |
| Bladens River (Upper Reach) | September 16, 1980 | U.S. Geological Survey | IAA-H-9-77 | December, 1978 | Town of Bethany, Town of Woodbridge |
| Bladens River Tributary | January, 1978 | Harris-Toups Associates | H-3987 | July, 1977 | Town of Seymour |
| Branford River | January, 1978 | Anderson-Nichols & Co., Inc. | H-3862 | February, 1977 | Town of North Branford |
| Branford River | May 16, 2017 | U.S. Geological Survey | HSFE01-12-X-0044 | July, 2014 | Town of Branford, Town of North Branford |
| Bronson Brook | September, 1978 | Harris-Toups Associates | H-3987 | August, 1977 | Town of Beacon Falls |
| Bronson Brook Tributary | September, 1978 | Harris-Toups Associates | H-3987 | August, 1977 | Town of Beacon Falls |
| Brookdale Stream | December, 1978 | Soil Conservation Service | IAA-H-9-76 | July, 1977 | Town of Hamden |

Table 29: Summary of Contracted Studies Included in this FIS Report

| Flooding Source | FIS Report Dated | Contractor | Number | Work Completed Date | Affected Communities |
|-----------------------|------------------|------------------------------|------------------|---------------------|--|
| Burr Brook | January, 1978 | Anderson-Nichols & Co., Inc. | H-3862 | February, 1977 | Town of North Branford |
| Camp Laurelwood Brook | November 4, 1992 | Soil Conservation Service | IAA-H-9-76 | 1977 | Town of Madison |
| Club Creek | N/A | N/A | N/A | May, 2014 | City of West Haven |
| Cold Spring Brook | Feb, 1979 | Harris-Toups Associates | H-3987 | September, 1977 | Borough of Naugatuck |
| Cove River | July, 1978 | USACE, New England Division | IAA-H-19-74 | February, 1976 | City of West Haven |
| East River | August, 1986 | CE Maguire, Inc. | EMW-C-0278 | December, 1982 | Town of Guilford |
| Eaton Brook | December, 1978 | Soil Conservation Service | IAA-H-9-76 | July, 1977 | Town of Hamden |
| Eightmile Brook No. 1 | January, 1978 | Anderson-Nichols & Co., Inc. | H-3862 | February, 1977 | Town of North Branford |
| Eightmile Brook No. 2 | June, 1979 | Harris-Toups Associates | H-3987 | April, 1978 | Town of Oxford |
| Farley Creek | July, 1987 | Flaherty-Giavara Associates | EMW-84-C-1594 | September, 1985 | City of Milford |
| Farm Brook | December, 1978 | Soil Conservation Service | IAA-H-9-76 | July, 1977 | Town of Hamden |
| Farm River | May 16, 2017 | U.S. Geological Survey | HSFE01-12-X-0044 | July, 2014 | Town of East Haven, Town of North Branford |
| Five Mile Brook | March, 1980 | CE Maguire, Inc. | H-4560 | July, 1978 | Town of North Haven |
| Fivemile Brook | June, 1979 | Harris-Toups Associates | H-3987 | April, 1978 | Town of Oxford |
| Fulling Mill Brook | Feb, 1979 | Harris-Toups Associates | H-3987 | September, 1977 | Borough of Naugatuck |

Table 29: Summary of Contracted Studies Included in this FIS Report

| Flooding Source | FIS Report Dated | Contractor | Number | Work Completed Date | Affected Communities |
|---------------------------------|------------------|--------------------------------------|---------------|---------------------|--|
| Fulling Mill Brook Tributary | May, 1995 | Green International Affiliates, Inc. | EMW-93-C-4144 | December, 1993 | Town of Prospect |
| Grieb Court Brook | March, 1978 | Soil Conservation Service | H-3962 | April, 1977 | Town of Wallingford |
| Gulf Brook | January, 1978 | Anderson-Nichols & Co., Inc. | H-3862 | February, 1977 | Town of North Branford |
| Hammonasset River (Lower Reach) | N/A | CE Maguire, Inc. | N/A | January, 1979 | Town of Madison |
| Hammonasset River (Upper Reach) | November, 1992 | U.S. Geological Survey | EMW-89-E-2997 | June, 1991 | Town of Madison |
| Hancock Brook | May, 1979 | Harris-Toups Associates | H-3987 | November, 1977 | City of Waterbury |
| Hanover Street Brook | June, 1990 | U.S. Geological Survey | EMW-84-E-1548 | August, 1987 | Town of Wallingford |
| Harbor Brook | N/A | N/A | N/A | February, 2013 | City of Meriden |
| Hemp Swamp Brook | September, 1978 | Harris-Toups Associates | H-3987 | August, 1977 | Town of Beacon Falls |
| Hop Brook (Lower Reach) | February, 1979 | Harris-Toups Associates | H-3987 | September, 1977 | Borough of Naugatuck |
| Hop Brook (Upper Reach) | April, 1979 | Harris-Toups Associates | H-3987 | November, 1977 | Town of Middlebury |
| Hopeville Pond Brook | May, 1979 | Harris-Toups Associates | H-3987 | November, 1977 | City of Waterbury |
| Hopp Brook | June, 1980 | U.S. Geological Survey | IAA-H-9-77 | December, 1978 | Town of Bethany |
| Housatonic River (Lower Reach) | March, 1991 | FGA Services, Inc. | EMW-87-C-2447 | March, 1988 | City of Derby, Town of Oxford, Town of Seymour |

Table 29: Summary of Contracted Studies Included in this FIS Report

| Flooding Source | FIS Report Dated | Contractor | Number | Work Completed Date | Affected Communities |
|---------------------------------|------------------|---------------------------------------|------------------|---------------------|-----------------------------------|
| Housatonic River (Lower Reach) | March, 1978 | USACE, New England Division | IAA-H-15-72 | April, 1977 | City of Milford, Town of Orange |
| Housatonic River (Middle Reach) | September, 1979 | U.S. Geological Survey | IAA-H-8-76 | December, 1977 | Town of Oxford, Town of Southbury |
| Indian River | September, 1979 | CE Maguire, Inc. | H-4560 | July, 1978 | City of Milford, Town of Orange |
| Iron Stream | November, 1992 | U.S. Geological Survey | EMW-89-E-2997 | June, 1991 | Town of Madison |
| Jepp Brook | December, 1978 | Soil Conservation Service | IAA-H-9-76 | July, 1977 | Town of Hamden |
| Jones Hill Road Brook | July, 1978 | USACE, New England Division | IAA-H-19-74 | February, 1976 | City of West Haven |
| Judd Brook | April, 2002 | Roald Haestad, Inc. | EMB-1999-CO-0564 | April, 2000 | Town of Cheshire |
| Karls Brook | July, 1987 | Flaherty-Giavara Associates | EMW-84-C-1594 | September, 1985 | City of Milford |
| Lindsley Brook | January, 1982 | Philip W. Genovese & Associates, Inc. | H-4711 | April, 1980 | Town of Wolcott |
| Little Meadow Brook | August, 1986 | CE Maguire, Inc. | EMW-C-0278 | December, 1982 | Town of Guilford |
| Little River | June, 1979 | Harris-Toups Associates | H-3987 | April, 1978 | Town of Oxford |
| Little River | January, 1978 | Harris-Toups Associates | H-3987 | July, 1977 | Town of Seymour |
| Long Meadow Pond Brook | Feb, 1979 | Harris-Toups Associates | H-3987 | September, 1977 | Borough of Naugatuck |
| Long Swamp Brook | April, 1979 | Harris-Toups Associates | H-3987 | November, 1977 | Town of Middlebury |
| Lyman Hall Brook | March, 1978 | Soil Conservation Service | H-3962 | April, 1977 | Town of Wallingford |

Table 29: Summary of Contracted Studies Included in this FIS Report

| Flooding Source | FIS Report Dated | Contractor | Number | Work Completed Date | Affected Communities |
|-------------------------|------------------|---------------------------------------|------------------|---------------------|---|
| Mad River (Lower Reach) | May, 1979 | Harris-Toups Associates | H-3987 | November, 1977 | City of Waterbury |
| Mad River (Upper Reach) | January, 1982 | Philip W. Genovese & Associates, Inc. | H-4711 | April, 1980 | Town of Wolcott |
| Maloney Brook | January, 2003 | U.S. Geological Survey | EMW-98-IA-0175 | October, 2000 | Town of East Haven |
| Mansion Road Brook | June, 1990 | U.S. Geological Survey | EMW-84-E-1548 | August, 1987 | Town of Wallingford |
| Meetinghouse Brook | March, 1978 | Soil Conservation Service | H-3962 | April, 1977 | Town of Wallingford |
| Mill River | May 16, 2017 | U.S. Geological Survey | HSFE01-12-X-0044 | July, 2014 | Town of Cheshire, Town of Hamden |
| Mountain Brook | May, 1995 | Green International Affiliates, Inc. | EMW-93-C-4144 | December, 1993 | Town of Prospect |
| Muddy River | March, 1980 | CE Maguire, Inc. | H-4560 | July, 1978 | Town of North Haven |
| Muddy River | May 16, 2017 | U.S. Geological Survey | HSFE01-12-X-0044 | July, 2014 | Town of North Branford, Town of North Haven |
| Muddy River | March, 1978 | Soil Conservation Service | H-3962 | April, 1977 | Town of Wallingford |
| Muddy River Tributary C | January, 1978 | Anderson-Nichols & Co., Inc. | H-3862 | February, 1977 | Town of North Branford |
| Munger Brook | January, 1978 | Anderson-Nichols & Co., Inc. | H-3862 | February, 1977 | Town of North Branford |

Table 29: Summary of Contracted Studies Included in this FIS Report

| Flooding Source | FIS Report Dated | Contractor | Number | Work Completed Date | Affected Communities |
|----------------------|--------------------|---------------------------------------|---------------|---------------------|----------------------|
| Naugatuck River | September, 1978 | Harris-Toups Associates | H-3987 | August, 1977 | many |
| Neck River | November, 1992 | U.S. Geological Survey | EMW-89-E-2997 | June, 1991 | Town of Madison |
| Oakdale Brook | March, 1978 | Soil Conservation Service | H-3962 | April, 1977 | Town of Wallingford |
| Old Tannery Brook | January, 1982 | Philip W. Genovese & Associates, Inc. | H-4711 | April, 1980 | Town of Wolcott |
| Pine Brook | March, 1980 | CE Maguire, Inc. | H-4560 | July, 1978 | Town of North Haven |
| Pomperaug River | September, 1979 | U.S. Geological Survey | IAA-H-8-76 | December, 1977 | Town of Southbury |
| Quinnipiac River | September, 2000 | U.S. Geological Survey | N/A | June, 1998 | Town of Wallingford |
| Quinnipiac River | November, 2000 | U.S. Geological Survey | EMW-90-E-3266 | January, 1995 | City of Meriden |
| Quinnipiac River | Nov, 1989 | U.S. Geological Survey | EMW-84-E-1548 | August, 1987 | Town of Cheshire |
| Quinnipiac River | May, 1985 | Dewberry & Davis, LLC | N/A | August, 1983 | Town of North Haven |
| Race Brook | August, 1995 | Roald Haestad, Inc. | EMW-90-C-3126 | March, 1993 | Town of Orange |
| Race Brook | September 16, 1980 | U.S. Geological Survey | IAA-H-9-77 | December, 1978 | Town of Woodbridge |
| Riggs Street Brook | June, 1979 | Harris-Toups Associates | H-3987 | April, 1978 | Town of Oxford |
| Schildgen Pond Brook | Feb, 1979 | Harris-Toups Associates | H-3987 | September, 1977 | Borough of Naugatuck |
| Shepard Brook | December, 1978 | Soil Conservation Service | IAA-H-9-76 | July, 1977 | Town of Hamden |
| Sodom Brook | November, 2000 | U.S. Geological Survey | EMW-90-E-3266 | January, 1995 | City of Meriden |

Table 29: Summary of Contracted Studies Included in this FIS Report

| Flooding Source | FIS Report Dated | Contractor | Number | Work Completed Date | Affected Communities |
|------------------------|--------------------|-----------------------------|------------------|---------------------|------------------------------------|
| Spoon Shop Brook | May 16, 2017 | U.S. Geological Survey | HSFE01-12-X-0044 | July, 2014 | City of Meriden |
| Steele Brook | May, 1979 | Harris-Toups Associates | H-3987 | November, 1977 | City of Waterbury |
| Stubby Brook | July, 1987 | Flaherty-Giavara Associates | EMW-84-C-1594 | September, 1985 | City of Milford |
| Tenmile River | Nov, 1989 | U.S. Geological Survey | EMW-84-E-1548 | August, 1987 | Town of Cheshire, Town of Prospect |
| Tuttle Brook | November, 1997 | N/A | N/A | September, 1995 | Town of East Haven |
| Two Mile Brook | May, 1992 | Genovese & Associates | EMW-89-C-2818 | November, 1989 | City of Ansonia |
| Watermans Brook | March, 1980 | CE Maguire, Inc. | H-4560 | July, 1978 | Town of North Haven |
| Webb Brook | Feb, 1979 | Harris-Toups Associates | H-3987 | September, 1977 | Borough of Naugatuck |
| Wepawaug River | September 16, 1980 | U.S. Geological Survey | IAA-H-9-77 | December, 1978 | Town of Woodbridge |
| Wepawaug River | September, 1979 | CE Maguire, Inc. | H-4560 | July, 1978 | City of Milford, Town of Orange |
| Wepawaug River | May 16, 2017 | U.S. Geological Survey | HSFE01-12-X-0044 | July, 2014 | Town of Orange |
| West Branch Farm Brook | December, 1978 | Soil Conservation Service | IAA-H-9-76 | July, 1977 | Town of Hamden |
| West River No. 1 | November, 1977 | USACE, New England Division | IAA-H-19-74 | May, 1977 | Town of Guilford |
| West River No. 2 | January, 1980 | Soil Conservation Service | IAA-H-9-76 | October, 1977 | City of New Haven |
| West River No. 2 | March, 1991 | USACE, New England Division | EMW-84-E-1506 | July, 1989 | Town of Woodbridge |

Table 29: Summary of Contracted Studies Included in this FIS Report

| Flooding Source | FIS Report Dated | Contractor | Number | Work Completed Date | Affected Communities |
|---------------------|------------------|---|------------------|---------------------|---------------------------------------|
| Wharton Brook | March, 1978 | Soil Conservation Service | H-3962 | April, 1977 | Town of Wallingford |
| Whitemare Brook | May, 1992 | Genovese & Associates | EMW-89-C-2818 | November, 1989 | City of Ansonia |
| Willow Brook No. 1 | Nov, 1989 | U.S. Geological Survey | EMW-84-E-1548 | August, 1987 | Town of Cheshire |
| Willow Brook No. 1 | December, 1978 | Soil Conservation Service | IAA-H-9-76 | July, 1977 | Town of Hamden |
| Willow Brook No. 2 | November, 2000 | U.S. Geological Survey | EMW-90-E-3266 | January, 1995 | City of Meriden |
| Wintergreen Brook | January, 1980 | Soil Conservation Service | IAA-H-9-76 | October, 1977 | City of New Haven |
| Woodings Pond Brook | March, 1978 | Soil Conservation Service | H-3962 | April, 1977 | Town of Wallingford |
| Wooster Brook | May, 1979 | Harris-Toups Associates | H-3987 | November, 1977 | Town of Middlebury, City of Waterbury |
| Long Island Sound | July, 2013 | Strategic Alliance for Risk Reduction (STARR) | HSFEHQ-09-D-0370 | July, 2013 | many |

7.2 Community Meetings

The dates of the community meetings held for this Flood Risk Project and any previous Flood Risk Projects are shown in Table 30. These meetings may have previously been referred to by a variety of names (Community Coordination Officer (CCO), Scoping, Discovery, etc.), but all meetings represent opportunities for FEMA, community officials, study contractors, and other invited guests to discuss the planning for and results of the project.

Table 30: Community Meetings

| Community | FIS Report Dated | Date of Meeting | Meeting Type | Attended By |
|----------------------|------------------|-----------------|------------------|---|
| City of Ansonia | 05/16/2017 | 03/06/2012 | Initial CCO | FEMA, USGS, State NFIP officials, watershed associations, and communities in the Quinnipiac Watershed |
| | | 10/15/2014 | Intermediate CCO | FEMA, USGS, State NFIP officials, and communities affected by revised panels |
| | | 09/15/2015 | Final CCO | FEMA, USGS, State NFIP officials, and communities affected by revised panels |
| Town of Beacon Falls | 12/17/2010 | 08/08/2007 | Initial CCO | Unknown |
| | | 12/03/2008 | Final CCO | FEMA, Connecticut Department of Environmental Protection, New Haven County, Dewberry, Roald Haestad Inc., Watershed Concepts, and the communities |
| Town of Bethany | 12/17/2010 | 08/08/2007 | Initial CCO | Unknown |
| | | 12/03/2008 | Final CCO | FEMA, Connecticut Department of Environmental Protection, New Haven County, Dewberry, Roald Haestad Inc., Watershed Concepts, and the communities |
| Town of Branford | 05/16/2017 | 03/06/2012 | Initial CCO | FEMA, USGS, State NFIP officials, watershed associations, and communities in the Quinnipiac Watershed |
| | | 10/15/2014 | Intermediate CCO | FEMA, USGS, State NFIP officials, and communities affected by revised panels |
| | | 09/15/2015 | Final CCO | FEMA, USGS, State NFIP officials, and communities affected by revised panels |
| Town of Cheshire | 05/16/2017 | 03/06/2012 | Initial CCO | FEMA, USGS, State NFIP officials, watershed associations, and communities in the Quinnipiac Watershed |

Table 30: Community Meetings

| Community | FIS Report Dated | Date of Meeting | Meeting Type | Attended By |
|--------------------|------------------|-----------------|------------------|---|
| | | 10/15/2014 | Intermediate CCO | FEMA, USGS, State NFIP officials, and communities affected by revised panels |
| | | 09/15/2015 | Final CCO | FEMA, USGS, State NFIP officials, and communities affected by revised panels |
| City of Derby | 10/16/2013 | Unknown | Initial CCO | Unknown |
| | | Unknown | Final CCO | Unknown |
| Town of East Haven | 05/16/2017 | 03/06/2012 | Initial CCO | FEMA, USGS, State NFIP officials, watershed associations, and communities in the Quinnipiac Watershed |
| | | 10/15/2014 | Intermediate CCO | FEMA, USGS, State NFIP officials, and communities affected by revised panels |
| | | 09/15/2015 | Final CCO | FEMA, USGS, State NFIP officials, and communities affected by revised panels |
| Town of Guilford | 05/16/2017 | 03/06/2012 | Initial CCO | FEMA, USGS, State NFIP officials, watershed associations, and communities in the Quinnipiac Watershed |
| | | 10/15/2014 | Intermediate CCO | FEMA, USGS, State NFIP officials, and communities affected by revised panels |
| | | 09/15/2015 | Final CCO | FEMA, USGS, State NFIP officials, and communities affected by revised panels |
| Town of Hamden | 05/16/2017 | 03/06/2012 | Initial CCO | FEMA, USGS, State NFIP officials, watershed associations, and communities in the Quinnipiac Watershed |
| | | 10/15/2014 | Intermediate CCO | FEMA, USGS, State NFIP officials, and communities affected by revised panels |

Table 30: Community Meetings

| Community | FIS Report Dated | Date of Meeting | Meeting Type | Attended By |
|----------------------|------------------|-----------------|------------------|---|
| | | 09/15/2015 | Final CCO | FEMA, USGS, State NFIP officials, and communities affected by revised panels |
| Town of Madison | 07/08/2013 | 04/28/2010 | Initial CCO | Unknown |
| | | 11/29/2011 | Final CCO | FEMA, Connecticut Department of Energy and Environmental Protection, New Haven County, STARR, and the communities |
| City of Meriden | 05/16/2017 | 03/06/2012 | Initial CCO | FEMA, USGS, State NFIP officials, watershed associations, and communities in the Quinnipiac Watershed |
| | | 10/15/2014 | Intermediate CCO | FEMA, USGS, State NFIP officials, and communities affected by revised panels |
| | | 09/15/2015 | Final CCO | FEMA, USGS, State NFIP officials, and communities affected by revised panels |
| Town of Middlebury | 12/17/2010 | 08/08/2007 | Initial CCO | Unknown |
| | | 12/03/2008 | Final CCO | FEMA, Connecticut Department of Environmental Protection, New Haven County, Dewberry, Roald Haestad Inc., Watershed Concepts, and the communities |
| City of Milford | 05/16/2017 | 03/06/2012 | Initial CCO | FEMA, USGS, State NFIP officials, watershed associations, and communities in the Quinnipiac Watershed |
| | | 10/15/2014 | Intermediate CCO | FEMA, USGS, State NFIP officials, and communities affected by revised panels |
| | | 09/15/2015 | Final CCO | FEMA, USGS, State NFIP officials, and communities affected by revised panels |
| Borough of Naugatuck | 12/17/2010 | 08/08/2007 | Initial CCO | Unknown |

Table 30: Community Meetings

| Community | FIS Report Dated | Date of Meeting | Meeting Type | Attended By |
|------------------------|------------------|-----------------|------------------|---|
| | | 12/03/2008 | Final CCO | FEMA, Connecticut Department of Environmental Protection, New Haven County, Dewberry, Roald Haestad Inc., Watershed Concepts, and the communities |
| City of New Haven | 05/16/2017 | 03/06/2012 | Initial CCO | FEMA, USGS, State NFIP officials, watershed associations, and communities in the Quinnipiac Watershed |
| | | 10/15/2014 | Intermediate CCO | FEMA, USGS, State NFIP officials, and communities affected by revised panels |
| | | 09/15/2015 | Final CCO | FEMA, USGS, State NFIP officials, and communities affected by revised panels |
| Town of North Branford | 05/16/2017 | 03/06/2012 | Initial CCO | FEMA, USGS, State NFIP officials, watershed associations, and communities in the Quinnipiac Watershed |
| | | 10/15/2014 | Intermediate CCO | FEMA, USGS, State NFIP officials, and communities affected by revised panels |
| | | 09/15/2015 | Final CCO | FEMA, USGS, State NFIP officials, and communities affected by revised panels |
| Town of North Haven | 05/16/2017 | 03/06/2012 | Initial CCO | FEMA, USGS, State NFIP officials, watershed associations, and communities in the Quinnipiac Watershed |
| | | 10/15/2014 | Intermediate CCO | FEMA, USGS, State NFIP officials, and communities affected by revised panels |
| | | 09/15/2015 | Final CCO | FEMA, USGS, State NFIP officials, and communities affected by revised panels |

Table 30: Community Meetings

| Community | FIS Report Dated | Date of Meeting | Meeting Type | Attended By |
|---------------------|------------------|-----------------|------------------|---|
| Town of Orange | 05/16/2017 | 03/06/2012 | Initial CCO | FEMA, USGS, State NFIP officials, watershed associations, and communities in the Quinnipiac Watershed |
| | | 10/15/2014 | Intermediate CCO | FEMA, USGS, State NFIP officials, and communities affected by revised panels |
| | | 09/15/2015 | Final CCO | FEMA, USGS, State NFIP officials, and communities affected by revised panels |
| Town of Oxford | 12/17/2010 | 08/08/2007 | Initial CCO | Unknown |
| | | 12/03/2008 | Final CCO | FEMA, Connecticut Department of Environmental Protection, New Haven County, Dewberry, Roald Haestad Inc., Watershed Concepts, and the communities |
| Town of Prospect | 05/16/2017 | 03/06/2012 | Initial CCO | FEMA, USGS, State NFIP officials, watershed associations, and communities in the Quinnipiac Watershed |
| | | 10/15/2014 | Intermediate CCO | FEMA, USGS, State NFIP officials, and communities affected by revised panels |
| | | 09/15/2015 | Final CCO | FEMA, USGS, State NFIP officials, and communities affected by revised panels |
| Town of Seymour | 10/16/2013 | Unknown | Initial CCO | Unknown |
| | | Unknown | Final CCO | Unknown |
| Town of Wallingford | 05/16/2017 | 03/06/2012 | Initial CCO | FEMA, USGS, State NFIP officials, watershed associations, and communities in the Quinnipiac Watershed |
| | | 10/15/2014 | Intermediate CCO | FEMA, USGS, State NFIP officials, and communities affected by revised panels |

Table 30: Community Meetings

| Community | FIS Report Dated | Date of Meeting | Meeting Type | Attended By |
|---------------------|------------------|-----------------|------------------|---|
| | | 09/15/2015 | Final CCO | FEMA, USGS, State NFIP officials, and communities affected by revised panels |
| City of Waterbury | 12/17/2010 | 08/08/2007 | Initial CCO | Unknown |
| | | 12/03/2008 | Final CCO | FEMA, Connecticut Department of Environmental Protection, New Haven County, Dewberry, Roald Haestad Inc., Watershed Concepts, and the communities |
| City of West Haven | 07/08/2013 | 04/28/2010 | Initial CCO | Unknown |
| | | 11/29/2011 | Final CCO | FEMA, Connecticut Department of Energy and Environmental Protection, New Haven County, STARR, and the communities |
| Town of Wolcott | 12/17/2010 | 08/08/2007 | Initial CCO | Unknown |
| | | 12/03/2008 | Final CCO | FEMA, Connecticut Department of Environmental Protection, New Haven County, Dewberry, Roald Haestad Inc., Watershed Concepts, and the communities |
| Town of Woodbridge | 05/16/2017 | 03/06/2012 | Initial CCO | FEMA, USGS, State NFIP officials, watershed associations, and communities in the Quinnipiac Watershed |
| | | 10/15/2014 | Intermediate CCO | FEMA, USGS, State NFIP officials, and communities affected by revised panels |
| | | 09/15/2015 | Final CCO | FEMA, USGS, State NFIP officials, and communities affected by revised panels |
| Borough of Woodmont | 07/08/2013 | 04/28/2010 | Initial CCO | Unknown |
| | | 11/29/2011 | Final CCO | FEMA, Connecticut Department of Energy and Environmental Protection, New Haven County, STARR, and the communities |

SECTION 8.0 – ADDITIONAL INFORMATION

Information concerning the pertinent data used in the preparation of this FIS Report can be obtained by submitting an order with any required payment to the FEMA Engineering Library. For more information on this process, see <http://www.fema.gov>.

The additional data that was used for this project includes the FIS Report and FIRM that were previously prepared for New Haven County (FEMA 2013).

Table 31 is a list of the locations where FIRMs for New Haven County can be viewed. Please note that the maps at these locations are for reference only and are not for distribution. Also, please note that only the maps for the community listed in the table are available at that particular repository. A user may need to visit another repository to view maps from an adjacent community.

Table 31: Map Repositories

| Community | Address | City | State | Zip Code |
|----------------------|---|--------------|-------|----------|
| City of Ansonia | City Clerk's Office 253 Main Street | Ansonia | CT | 06401 |
| Town of Beacon Falls | Town Hall Ten Maple Avenue | Beacon Falls | CT | 06403 |
| Town of Bethany | Town Hall 40 Peck Road | Bethany | CT | 06524 |
| Town of Branford | Engineering Department 1019 Main Street | Branford | CT | 06405 |
| Town of Cheshire | Town Clerk's Office 84 South Main Street | Cheshire | CT | 06410 |
| City of Derby | Building Department One Elizabeth Street | Derby | CT | 06418 |
| Town of East Haven | Engineering Department 461 North High Street | East Haven | CT | 06512 |
| Town of Guilford | Engineering Department 50 Boston Street | Guilford | CT | 06437 |
| Town of Hamden | Planning and Zoning Department 2750 Dixwell Avenue | Hamden | CT | 06518 |
| Town of Madison | Town Offices Eight Campus Drive | Madison | CT | 06443 |
| City of Meriden | City Clerk's Office 142 East Main Street | Meriden | CT | 06450 |

Table 31: Map Repositories

| Community | Address | City | State | Zip Code |
|------------------------|---|----------------|-------|----------|
| Town of Middlebury | Town Hall 1212 Whittemore Road | Middlebury | CT | 06762 |
| City of Milford | Parsons Government Center 70 West River Street | Milford | CT | 06460 |
| Borough of Naugatuck | Town Hall 229 Church Street | Naugatuck | CT | 06770 |
| City of New Haven | Engineering Department 200 Orange Street | New Haven | CT | 06510 |
| Town of North Branford | Engineering Department 909 Foxon Road | North Branford | CT | 06471 |
| Town of North Haven | Town Clerk's Office 18 Church Street | North Haven | CT | 06473 |
| Town of Orange | Public Works Department 617 Orange Center Road | Orange | CT | 06477 |
| Town of Oxford | Town Hall 486 Oxford Road | Oxford | CT | 06478 |
| Town of Prospect | Land Use Department 36 Center Street | Prospect | CT | 06712 |
| Town of Seymour | Town Hall One First Street | Seymour | CT | 06483 |
| Town of Southbury | Town Hall 501 Main Street South | Southbury | CT | 06488 |
| Town of Wallingford | Planning Department 45 South Main Street | Wallingford | CT | 06492 |
| City of Waterbury | City Hall 236 Grand Street | Waterbury | CT | 06702 |
| City of West Haven | City Hall 355 Main Street | West Haven | CT | 06516 |
| Town of Wolcott | Town Hall Ten Kenea Avenue | Wolcott | CT | 06716 |
| Town of Woodbridge | Town Clerk's Office 11 Meetinghouse Lane | Woodbridge | CT | 06525 |
| Borough of Woodmont | Borough Hall 31 Clinton Street | Milford | CT | 06460 |

The National Flood Hazard Layer (NFHL) dataset is a compilation of effective FIRM databases and LOMCs. Together they create a GIS data layer for a State or Territory. The NFHL is updated

as studies become effective and extracts are made available to the public monthly. NFHL data can be viewed or ordered from the website shown in Table 32.

Table 32 contains useful contact information regarding the FIS Report, the FIRM, and other relevant flood hazard and GIS data. In addition, information about the state NFIP Coordinator and GIS Coordinator is shown in this table. At the request of FEMA, each Governor has designated an agency of State or territorial government to coordinate that State's or territory's NFIP activities. These agencies often assist communities in developing and adopting necessary floodplain management measures. State GIS Coordinators are knowledgeable about the availability and location of state and local GIS data in their state.

Table 32: Additional Information

| FEMA and the NFIP | |
|---|---|
| FEMA and FEMA Engineering Library website | www.fema.gov |
| NFIP website | www.fema.gov/national-flood-insurance-program |
| NFHL Dataset | msc.fema.gov |
| Other Federal Agencies | |
| USGS website | www.usgs.gov |
| Hydraulic Engineering Center website | www.hec.usace.army.mil |
| State Agencies and Organizations | |
| State NFIP Coordinator | Diane Ifkovic Department of Energy and Environmental Protection 79 Elm Street Hartford, Connecticut 06106 (860) 424-3537 diane.ifkovic@ct.gov |
| State GIS Coordinator | GIS Section Department of Energy and Environmental Protection Office of Information Management 79 Elm Street Hartford, Connecticut 06106 (860) 424-3540 deep.gisdata@ct.gov |

SECTION 9.0 – BIBLIOGRAPHY AND REFERENCES

Table 33 includes sources used in the preparation of and cited in this FIS Report as well as additional studies that have been conducted in the study area.

Table 33: Bibliography and References

| Citation in this FIS | Publisher/ Issuer | Publication Title, "Article," Volume, Number, etc. | Author/Editor | Place of Publication | Publication Date/ Date of Issuance | Link |
|------------------------------|--|---|---|-------------------------------------|------------------------------------|------|
| Aeroservice Corp., 1964 | Aeroservice Corp. | <i>Topographic Maps, Scale 1:1,200, Contour Interval 1 Feet: City of New Haven, CT, 1964.</i> | Aeroservice Corporation, Philadelphia, Pennsylvania | New Haven, CT | 1964 | |
| Ahearn, 2004 | U.S. Geological Survey | <i>Regression Equations for Estimating Flood Flows for the 2-, 10-, 25-, 50-, 100-, and 500-Year Recurrence Intervals in Connecticut: USGS SIR 2004-5160.</i> | E. Ahearn | U.S. Geological Survey, Connecticut | 2004 | |
| Bigwood-Thomas, 1955 | U.S. Department of the Interior, Geological Survey | <i>Circular No. 365, A Flood-Flow Formula for Connecticut</i> | B.L. Bigwood and M. P. Thomas | Washington, D.C. | 1955 | |
| Bowe, Walsh and Assoc., 1977 | Bowe, Walsh and Assoc. | <i>Topographic Maps, Scale 1:2,400, Contour Interval 1 and 10 Feet: City of West Haven, CT, 1977.</i> | Bowe, Walsh and Associates | West Haven, Ct | 1977 | |
| Branford, 1963 | Town of Branford | <i>Topographic Maps, Scale 1:480, Contour Interval 2 Feet: Town of Branford, CT, 1963.</i> | | Branford, CT | 1963 | |
| C.E. Maguire, Inc., 1977 | C.E. Maguire, Inc. | <i>Topographic Maps, Scale 1:2,400, Contour Interval 5 Feet: Town of North Haven, CT, December, 1977.</i> | C.E. Maguire, Inc. | North Haven, CT | December, 1977 | |

Table 33: Bibliography and References

| Citation in this FIS | Publisher/ Issuer | Publication Title, "Article," Volume, Number, etc. | Author/Editor | Place of Publication | Publication Date/ Date of Issuance | Link |
|--------------------------|--|--|--|----------------------|------------------------------------|---|
| C.E. Maguire, Inc., 1977 | C.E. Maguire, Inc. | <i>Topographic Maps, Scale 1:2,400, Contour Interval 5 Feet: Town of Orange, CT, December, 1977.</i> | C.E. Maguire, Inc. | Orange, CT | December, 1977 | |
| Cheshire, 1975 | Town of Cheshire | <i>Topographic Maps, Scale 1:2,400, Contour Interval 2 Feet: Town of Cheshire, CT, March, 1975.</i> | | Cheshire, CT | March, 1975 | |
| CT DEP, 2007 | Department of Environmental Protection | <i>Natural Hazards Mitigation Plan For 2007-2010</i> | Department of Environmental Protection | | 1-Dec-07 | |
| Dewberry & Davis, 1982 | | <i>Topographic Maps, Scale 1:2,400, Contour Interval 4 Feet: Town of Madison, CT, 1982.</i> | | Madison, CT | 1982 | |
| FEMA, 2011 | FEMA | <i>Topographic Lidar: Quinnipiac River Watershed, Connecticut</i> | FEMA | Charleston, SC | April 2013 | https://coast.noaa.gov/data/Documents/Metadata/Lidar/harvest/ct2011_fema_quinnipiacriver_m1472_metadata.xml&f=html |
| Geo Maps, 1978 | Geo Maps | <i>Topographic Maps, Scale 1:4,800, Contour Interval 4 Feet: City of Ansonia, CT, April, 1978.</i> | Geo Maps | Ansonia, CT | April, 1978 | |
| Geo Maps, 1978 | Geo Maps | <i>Topographic Maps, Scale 1:4,800, Contour Interval 5 Feet: Town of Wolcott, CT, 1978.</i> | Geo Maps | Wolcott, CT | 1978 | |

Table 33: Bibliography and References

| Citation in this FIS | Publisher/ Issuer | Publication Title, "Article," Volume, Number, etc. | Author/Editor | Place of Publication | Publication Date/ Date of Issuance | Link |
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| Geod Aerial Mapping, 1976 | Geod Aerial Mapping | <i>Topographic Maps, Scale 1:2,400, Contour Interval 5 Feet: Town of North Branford, CT, September 1976.</i> | Geod Aerial Mapping | North Branford, CT | September, 1976 | |
| Geod Aerial Mapping, 1980 | Geod Aerial Mapping | <i>Topographic Maps, Scale 1:4,800, Contour Interval 5 Feet: Town of Guilford, CT, 1980.</i> | Geod Aerial Mapping | Guilford, CT | 1980 | |
| Hamden, 1964 | Town of Hamden , New Haven County Soil and Water Conservation District | <i>Work Plan for the Farm Brook Watershed</i> | Town of Hamden and Connecticut and New Haven County Soil and Water Conservation District | | 1-Feb-64 | |
| Hulsing, 1967 | U.S. Department of the Interior, Geological Survey | <i>Techniques of Water Resources Investigation, Book 3, Chapter A5, Measurement of Peak Discharge at Dams by Indirect Methods</i> | U.S. Department of Interior, Geological Survey | Washington, D.C. | 1967 | |
| Johnston Assoc., 1983 | Natural Resources Center | <i>Realizing the Risk: A History of the June 1982 floods in Connecticut</i> | L.R. Johnston Associates | | | |

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|--------------------------------------|---|---|---|----------------------|------------------------------------|---|
| Meriden, 1965 | Town of Meriden | <i>Topographic Maps, Scale 1:12,000, Contour Interval 2 Feet: City of Meriden, CT, April, 1965.</i> | | Meriden, CT | April, 1965 | |
| Middletown Press, 2010 | The Middletown Press | <i>Flood warning issued for Middlesex County</i> | The Middletown Press | | 14-Dec-10 | http://www.middletownpress.com/articles/2010/12/14/news/doc4d081895c9c94214339107.txt |
| Middletown Press, 2011 | The Middletown Press | <i>14 buildings in Middletown deemed unsafe, evacuated (video)</i> | The Middletown Press | | 4-Feb-11 | http://www.middletownpress.com/articles/2011/02/04/news/doc4d4b5283a5d29020146314.txt |
| Milford, 1979 | City of Milford | <i>Topographic Maps, Scale 1:2,400, Contour Interval 2 Feet: City of Milford, CT, 1979.</i> | | Milford, CT | 1979 | |
| New Haven Water Company, unpublished | New Haven Water Company | <i>Plan Illustrating Lake Gaillard Dam</i> | New Haven Water Company | | | |
| NRCS, 1986 | U.S. Department of Agriculture, Soil Conservation Service | <i>Technical Release No. 20, Computer Program for Project Formation – Hydrology</i> | U.S. Department of Agriculture, Soil Conservation Service, Engineering Division | | 1-May-65 | |

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| Sauer, 1983 | U.S. Geological Survey | <i>Flood characteristics of urban watersheds in the United States: U.S. Geological Survey Water-Supply Paper 2207, 63 p.</i> | Sauer, V.B., Thomas, W.O. Jr., Stricker, V.A., and Wilson, K.V., 1983 | U.S. Geological Survey, Connecticut | 1983 | |
| SCS, 1972 | U.S. Department of Agriculture, Soil Conservation Service | <i>National Engineering Handbook, Section 4, Hydrology</i> | U.S. Department of Agriculture, Soil Conservation Service | Washington, D.C. | 1-Aug-72 | |
| SCS, 1976 | U.S. Department of Agriculture, Soil Conservation Service | <i>Technical Release No. 61, WSP-2 Computer Program</i> | U.S. Department of Agriculture, Soil Conservation Service | Washington, D.C. | 1-May-76 | |
| Sewall Co., 1965 | Sewall Co. | <i>Topographic Maps, Scale 1:1,200, Contour Interval 2 Feet: Town of Wallingford, CT, March, 1965.</i> | Sewall Co. | Wallingford, CT | March, 1965 | |
| Sewall Co., 1965 | Sewall Co. | <i>Topographic Maps, Scale 1:2,400, Contour Interval 5 Feet: Town of Wallingford, CT, March, 1965.</i> | Sewall Co. | Wallingford, CT | March, 1965 | |

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| Shearman, 1976 | U.S. Department of the Interior, Geological Survey | <i>E431, superseded by J635, Computer Applications for Step Backwater and Floodway Analyses, USGS Open-File Report 76-499</i> | James O. Shearman | Washington, D.C. | | |
| Teledyne Geotronics Mapping, Inc., 1977 | Teledyne Geotronics Mapping, Inc. | <i>Topographic Maps, Scale 1:2,400, Contour Interval 4 Feet: Borough of Naugatuck, CT, March 1977.</i> | Teledyne Geotronics Mapping, Inc. | Naugatuck, CT | March, 1977 | |
| Teledyne Geotronics Mapping, Inc., 1977 | Teledyne Geotronics Mapping, Inc. | <i>Topographic Maps, Scale 1:2,400, Contour Interval 4 Feet: City of Waterbury, CT, March, 1977.</i> | Teledyne Geotronics Mapping, Inc. | Waterbury, CT | March, 1977 | |
| Teledyne Geotronics Mapping, Inc., 1977 | Teledyne Geotronics Mapping, Inc. | <i>Topographic Maps, Scale 1:2,400, Contour Interval 4 Feet: Town of Beacon Falls, CT, March, 1977.</i> | Teledyne Geotronics Mapping, Inc. | Beacon Falls, CT | March, 1977 | |
| Teledyne Geotronics Mapping, Inc., 1977 | Teledyne Geotronics Mapping, Inc. | <i>Topographic Maps, Scale 1:2,400, Contour Interval 4 Feet: Town of Middlebury, CT, 1977.</i> | Teledyne Geotronics Mapping, Inc. | Middlebury, CT | 1977 | |

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| USACE, 1958 | Dewey and Kropper, Engineers | <i>Report of Flood Control Improvements, Ansonia, Connecticut for the Connecticut Water Resources Commission</i> | Dewey and Kropper | Hartford, Connecticut | 1-Aug-58 | |
| USACE, 1965 | U.S. Department of the Army, Corps of Engineers, New England District | <i>Ansonia- Derby Local Protection: Design Memorandum No. 1</i> | U.S. Department of the Army, Corps of Engineers, New England District | Waltham, Connecticut | 1-Apr-65 | |
| USACE, 1966 | U.S. Department of the Army, Corps of Engineers, New England District | <i>Ansonia- Derby Local Protection: Design Memorandum No. 7</i> | U.S. Department of the Army, Corps of Engineers, New England District | Waltham, Massachusetts | 1-Apr-66 | |

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| USACE, 1968b | U.S. Department of the Army, Corps of Engineers, New England District | <i>Plans for the Construction Of Local Protection Project, Ansonia-Derby, Waltham, Connecticut</i> | U.S. Department of the Army, Corps of Engineers, New England District | | 1-Jul-68 | |
| USACE, 1969 | U.S. Department of the Army, Corps of Engineers, New England District | <i>Hydraulic Model Investigation, Ansonia-Derby Local Protection Project, Naugatuck and Housatonic Rivers</i> | U.S. Department of the Army, Corps of Engineers, New England District, Waterwave Experiment Station | Vicksburg, Mississippi | 1-Apr-69 | |
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| USACE, 1973a | U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center | <i>HEC-2 Water Surface Profiles, Generalized Computer Program</i> | U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center | Davis, California | Oct-73 | |
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| USACE, 1976b | U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center | <i>HEC-2 Water Surface Profiles, Generalized Computer Program</i> | U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center | Davis, California | Nov-76 | |
| USACE, 1981 | U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center | <i>HEC-2 Water Surface Profiles, Generalized Computer Program</i> | U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center | Davis, California | Jan-81 | |

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| Citation in this FIS | Publisher/ Issuer | <i>Publication Title, "Article,"</i> Volume, Number, etc. | Author/Editor | Place of Publication | Publication Date/ Date of Issuance | Link |
|----------------------|---|---|--|----------------------|---------------------------------------|------|
| USACE, 1982 | U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center | <i>HEC-2 Water Surface Profiles, Generalized Computer Program</i> | U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center | Davis, California | 1982 | |
| USACE, 1984 | U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center | <i>HEC-2 Water Surface Profiles, Generalized Computer Program</i> | U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center | Davis, California | 1-Apr-84 | |
| USACE, 1988 | U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center | <i>HEC-2 Water Surface Profiles, Generalized Computer Program</i> | U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center | Davis, California | 1988 | |

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| USACE, 1994 | U.S. Department of the Army, Corps of Engineers | <i>Flood Warning Assessment for the Farm River East Haven & North Branford, CT</i> | U.S. Department of the Army, Corps of Engineers | | November, 1994 | |
| USACE, 2010 | U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center | <i>HEC-RAS River Analysis System 4.1.0</i> | U.S. Department of the Army, Corps of Engineers, Hydrologic Engineering Center | Davis, California | 2010 | |

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|------------------------|--|---|--|----------------------|------------------------------------|------|
| USGS, Topographic Maps | U.S. Department of the Interior, Geological Survey | <p><i>7.5-Minute Series Topographic Maps, Scale 1:24,000, Contour Interval 10 and/or 20 Feet: Ansonia, Connecticut 1951, 1964, Photorevised 1972 and 1984; Branford, Connecticut, 1967, Photorevised 1971 and 1972; Bristol, Connecticut, 1968 and 1972; Clinton, Connecticut, 1984; Durham, Connecticut, 1964, Photorevised 1972 and 1984; Guilford, Connecticut, 1968, Photorevised 1972 and 1984; Haddam, Connecticut, 1971; Long Hill, Connecticut, 1964, Photorevised 1973 and 1984; Meriden, Connecticut, 1972, Photorevised 1984; Middletown, Connecticut, 1972; Milford, Connecticut 1960, Photorevised 1971; Mt. Carmel, Connecticut, 1954, Photorevised 1967, 1972 and 1993; Naugatuck, Connecticut, 1964, Photorevised 1972 and 1993; New Haven, Connecticut, 1954, Photorevised 1967 and 1972; Newtown, Connecticut 1972; Roxbury, Connecticut, 1970; Southbury, Connecticut,</i></p> | U.S. Department of the Interior, Geological Survey | | | |

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| Wallingford, 1965 | Town of Wallingford | <i>Topographic Maps, Scale 1:2,400, Contour Interval 2 Feet: Town of Wallingford, CT, 1965.</i> | | Wallingford, CT | 1965 | |
| Weiss, 1975 | U.S. Geological Survey | <i>Flood flow formulas for urbanized and nonurbanized areas of Connecticut: Watershed and Management Symposium, Logan, Utah, Irrigation and Drainage Division, American Society of Civil Engineers, p. 658-675.</i> | L.A. Weiss | U.S. Geological Survey, Connecticut | 1975 | |
| Weiss, 1983 | State of Connecticut, Department of Environmental Protection. | <i>Connecticut Water Resources Bulletin No. 36, Evaluation and Design of a Stream Flow - Data Network for Connecticut</i> | L.A. Weiss | U.S. Geological Survey, Connecticut | 1983 | |
| Woodbridge, 1981 | Town of Woodbridge | <i>Topographic Map, Town of Woodbridge, Connecticut, Southeastern Section, Amity Road to Litchfield Turnpike Areas, Scale 1"=100', Contour Intervals 1 and 2 Feet, prepared from aerial photographs flown on April 8, 1981</i> | unknown | Woodbridge, CT | April, 1981 | |