



# Appendix C

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## Maximum Water Surface Elevations

**Table C-1. Existing Conditions Peak Water Surface Elevations (Scenario 1)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |              |              |              |              |              |
|-----------------|-----------------------|--|--------------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft)    | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 1C115           | 14.96                 | 11.25                                    | 11.31        | 11.35        | 11.39        | 11.45        | 11.50        |
| 1C135           | 10.28                 | <b>10.43</b>                             | <b>10.57</b> | <b>10.66</b> | <b>10.75</b> | <b>10.87</b> | <b>10.97</b> |
| 1C135A          | 13.20                 | 10.58                                    | 10.94        | 11.17        | 11.45        | 11.78        | 12.09        |
| 1C195           | 9.00                  | 7.65                                     | 7.94         | 8.06         | 8.20         | 8.33         | 8.45         |
| 1C205           | 10.92                 | 7.65                                     | 7.93         | 8.05         | 8.20         | 8.33         | 8.44         |
| 1C215           | 9.63                  | 7.64                                     | 7.92         | 8.05         | 8.19         | 8.32         | 8.44         |
| 1C225           | 7.51                  | <b>7.64</b>                              | <b>7.92</b>  | <b>8.04</b>  | <b>8.18</b>  | <b>8.31</b>  | <b>8.46</b>  |
| 1C230           | 11.00                 | <b>11.10</b>                             | <b>11.18</b> | <b>11.23</b> | <b>11.28</b> | <b>11.35</b> | <b>11.42</b> |
| 1C235           | 11.23                 | 7.66                                     | 8.81         | 9.73         | 10.77        | <b>11.26</b> | <b>11.37</b> |
| 1C275           | 11.96                 | 7.66                                     | 9.40         | 10.61        | <b>11.98</b> | <b>12.34</b> | <b>12.64</b> |
| 1C280           | 12.20                 | <b>12.30</b>                             | <b>12.43</b> | <b>12.49</b> | <b>12.57</b> | <b>12.66</b> | <b>12.75</b> |
| 1C310           | 15.24                 | 12.21                                    | 12.33        | 12.41        | 12.55        | 12.76        | 13.00        |
| 1C330           | 11.50                 | <b>11.50</b>                             | <b>11.55</b> | <b>11.58</b> | <b>11.63</b> | <b>11.68</b> | <b>11.73</b> |
| 1C340           | 10.32                 | 9.06                                     | 9.83         | 10.27        | <b>10.33</b> | <b>10.34</b> | <b>10.36</b> |
| 1C360           | 11.50                 | 10.83                                    | 11.06        | 11.32        | <b>11.50</b> | <b>11.52</b> | <b>11.53</b> |
| 1C370           | 10.70                 | <b>10.73</b>                             | <b>10.84</b> | <b>10.89</b> | <b>10.96</b> | <b>11.04</b> | <b>11.12</b> |
| 1C410           | 12.00                 | 11.04                                    | 11.52        | 11.91        | <b>12.00</b> | <b>12.01</b> | <b>12.03</b> |
| 1C435           | 8.00                  | 7.89                                     | <b>8.18</b>  | <b>8.31</b>  | <b>8.47</b>  | <b>8.61</b>  | <b>8.73</b>  |
| 1C445           | 9.00                  | 7.91                                     | 8.21         | 8.35         | 8.50         | 8.65         | 8.77         |
| 1C475           | 8.00                  | 7.91                                     | <b>8.23</b>  | <b>8.36</b>  | <b>8.52</b>  | <b>8.66</b>  | <b>8.79</b>  |
| 1C495           | 8.50                  | 7.89                                     | 8.19         | 8.32         | 8.47         | <b>8.61</b>  | <b>8.74</b>  |
| 1C510           | 11.96                 | 10.91                                    | 11.14        | 11.51        | 11.91        | <b>11.96</b> | <b>11.97</b> |
| 1C580           | 10.72                 | 7.95                                     | 8.42         | 8.81         | 8.95         | 9.12         | 9.26         |
| 1C580A          | 10.60                 | 8.08                                     | 8.73         | 9.30         | 9.49         | 9.70         | 9.87         |
| 1C590           | 10.38                 | 7.92                                     | 8.24         | 8.38         | 8.53         | 8.67         | 8.80         |
| 1C610           | 8.50                  | 7.91                                     | 8.23         | 8.36         | <b>8.52</b>  | <b>8.66</b>  | <b>8.79</b>  |
| 1C770           | 13.81                 | <b>13.82</b>                             | <b>13.87</b> | <b>13.90</b> | <b>13.94</b> | <b>13.99</b> | <b>14.04</b> |
| 1D226           | 10.00                 | 3.66                                     | 3.71         | 3.75         | 3.80         | 3.86         | 3.92         |
| 1D227           | 10.00                 | 3.66                                     | 3.71         | 3.75         | 3.79         | 3.85         | 3.91         |
| 1D228           | 10.00                 | 3.61                                     | 3.61         | 3.62         | 3.62         | 3.62         | 3.63         |
| 1D231           | 9.00                  | <b>9.06</b>                              | <b>9.18</b>  | <b>9.25</b>  | <b>9.34</b>  | <b>9.44</b>  | <b>9.55</b>  |
| 1D232           | 9.50                  | <b>9.52</b>                              | <b>9.61</b>  | <b>9.67</b>  | <b>9.74</b>  | <b>9.82</b>  | <b>9.90</b>  |
| 1D233           | 10.50                 | <b>10.64</b>                             | <b>10.79</b> | <b>10.88</b> | <b>10.98</b> | <b>11.12</b> | <b>11.25</b> |
| 1D234           | 10.00                 | 7.89                                     | 8.19         | 8.32         | 8.47         | 8.61         | 8.73         |
| 1D235           | 8.00                  | 7.89                                     | <b>8.18</b>  | <b>8.32</b>  | <b>8.47</b>  | <b>8.61</b>  | <b>8.73</b>  |
| 2C115           | 9.50                  | 7.51                                     | 7.69         | 7.81         | 7.96         | 8.09         | 8.20         |
| 2C125           | 7.50                  | <b>7.50</b>                              | <b>7.69</b>  | <b>7.81</b>  | <b>7.96</b>  | <b>8.09</b>  | <b>8.20</b>  |
| 2C135           | 7.50                  | <b>7.54</b>                              | <b>7.74</b>  | <b>7.86</b>  | <b>8.00</b>  | <b>8.13</b>  | <b>8.24</b>  |
| 2C165           | 22.86                 | 8.49                                     | 8.66         | 8.75         | 8.85         | 8.95         | 9.04         |

**Table C-1. Existing Conditions Peak Water Surface Elevations (Scenario 1)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |              |              |              |              |              |
|-----------------|-----------------------|--|--------------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft)    | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 2C185           | 9.79                  | 7.52                                     | 7.90         | 8.36         | 8.71         | 9.26         | <b>9.79</b>  |
| 2C195           | 10.00                 | 7.51                                     | 7.69         | 7.81         | 7.96         | 8.09         | 8.20         |
| 2C200           | 9.10                  | <b>9.12</b>                              | <b>9.17</b>  | <b>9.21</b>  | <b>9.26</b>  | <b>9.32</b>  | <b>9.38</b>  |
| 2C205           | 8.00                  | 7.51                                     | 7.70         | 7.81         | 7.96         | <b>8.09</b>  | <b>8.20</b>  |
| 2C215           | 8.00                  | 3.61                                     | 3.61         | 3.61         | 3.62         | 3.62         | 3.62         |
| 2C235           | 8.97                  | 8.34                                     | <b>8.97</b>  | <b>8.98</b>  | <b>8.98</b>  | <b>9.00</b>  | <b>9.01</b>  |
| 2C250           | 9.70                  | <b>9.73</b>                              | <b>9.77</b>  | <b>9.79</b>  | <b>9.83</b>  | <b>9.87</b>  | <b>9.91</b>  |
| 2C330           | 10.27                 | <b>10.31</b>                             | <b>10.37</b> | <b>10.40</b> | <b>10.45</b> | <b>10.52</b> | <b>10.58</b> |
| 2C340           | 11.00                 | 10.41                                    | 10.62        | 10.78        | <b>11.00</b> | <b>11.01</b> | <b>11.02</b> |
| 2C525           | 10.00                 | 7.54                                     | 7.74         | 7.86         | 8.00         | 8.13         | 8.24         |
| 2D220           | 8.00                  | 3.60                                     | 3.61         | 3.61         | 3.61         | 3.61         | 3.62         |
| 2D221           | 6.00                  | 3.60                                     | 3.60         | 3.60         | 3.61         | 3.61         | 3.61         |
| 3C145           | 9.89                  | 8.21                                     | 9.42         | 9.45         | 9.48         | 9.53         | 9.57         |
| 3C155           | 9.75                  | 8.27                                     | 9.47         | 9.50         | 9.53         | 9.58         | 9.62         |
| 3C175           | 10.00                 | 7.56                                     | 8.85         | 8.88         | 8.93         | 8.99         | 9.05         |
| 3C185           | 8.70                  | 7.42                                     | <b>8.72</b>  | <b>8.76</b>  | <b>8.81</b>  | <b>8.87</b>  | <b>8.93</b>  |
| 3C260           | 12.00                 | <b>12.05</b>                             | <b>12.12</b> | <b>12.17</b> | <b>12.22</b> | <b>12.28</b> | <b>12.34</b> |
| 3C265           | 15.03                 | 7.66                                     | 7.84         | 8.20         | 8.77         | 9.40         | 9.82         |
| 3C275           | 19.00                 | 6.36                                     | 7.62         | 8.16         | 8.70         | 9.30         | 9.53         |
| 3C285           | 13.00                 | 6.35                                     | 7.62         | 8.16         | 8.70         | 9.30         | 9.53         |
| 3C295           | 14.00                 | 6.37                                     | 7.63         | 8.18         | 8.74         | 9.35         | 9.52         |
| 3C305           | 14.00                 | 6.39                                     | 7.64         | 8.19         | 8.74         | 9.35         | 9.52         |
| 3C315           | 9.50                  | 6.72                                     | 7.68         | 8.24         | 8.84         | 9.48         | <b>9.53</b>  |
| 3C405           | 14.00                 | 6.29                                     | 7.60         | 8.14         | 8.69         | 9.29         | 9.52         |
| 3C420           | 11.19                 | 9.77                                     | <b>11.51</b> | <b>11.85</b> | <b>12.26</b> | <b>12.75</b> | <b>13.22</b> |
| 3C465           | 25.53                 | 12.41                                    | 12.53        | 12.59        | 12.66        | 12.73        | 12.79        |
| 3C490           | 10.20                 | <b>10.21</b>                             | <b>10.24</b> | <b>10.27</b> | <b>10.32</b> | <b>10.38</b> | <b>10.44</b> |
| 3C505           | 7.40                  | 6.45                                     | <b>7.42</b>  | <b>7.45</b>  | <b>7.50</b>  | <b>7.57</b>  | <b>7.62</b>  |
| 3C515           | 9.74                  | 6.16                                     | 7.25         | 7.45         | 7.57         | 7.78         | 7.97         |
| 3C535           | 8.42                  | 6.00                                     | 7.03         | 7.29         | 7.48         | 7.71         | 7.92         |
| 3C545           | 11.00                 | 6.15                                     | 7.33         | 7.68         | 8.02         | 8.37         | 8.60         |
| 3C595           | 8.00                  | 4.08                                     | 4.28         | 4.36         | 4.42         | 4.49         | 4.56         |
| 3C600           | 12.00                 | <b>12.00</b>                             | <b>12.03</b> | <b>12.05</b> | <b>12.07</b> | <b>12.10</b> | <b>12.13</b> |
| 3C625           | 9.00                  | 3.63                                     | 3.64         | 3.65         | 3.66         | 3.67         | 3.86         |
| 3C640           | 12.00                 | 11.98                                    | <b>12.01</b> | <b>12.02</b> | <b>12.03</b> | <b>12.05</b> | <b>12.07</b> |
| 3C685           | 10.52                 | 9.02                                     | 10.00        | 10.01        | 10.03        | 10.06        | 10.10        |
| 3C690           | 13.69                 | <b>13.69</b>                             | <b>13.71</b> | <b>13.71</b> | <b>13.73</b> | <b>13.74</b> | <b>13.76</b> |
| 3C695           | 10.08                 | 9.02                                     | <b>10.08</b> | <b>10.10</b> | <b>10.12</b> | <b>10.16</b> | <b>10.20</b> |
| 3C715           | 10.73                 | 9.39                                     | <b>10.79</b> | <b>10.93</b> | <b>11.12</b> | <b>11.35</b> | <b>11.57</b> |

**Table C-1. Existing Conditions Peak Water Surface Elevations (Scenario 1)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |              |              |              |              |              |
|-----------------|-----------------------|--|--------------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft)    | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 3C725           | 5.00                  | 4.63                                     | <b>5.19</b>  | <b>5.45</b>  | <b>6.17</b>  | <b>6.48</b>  | <b>6.63</b>  |
| 3C735A          | 6.00                  | 4.62                                     | 5.17         | 5.44         | <b>6.17</b>  | <b>6.47</b>  | <b>6.62</b>  |
| 3C745A          | 6.00                  | 4.60                                     | 5.15         | 5.40         | <b>6.15</b>  | <b>6.46</b>  | <b>6.60</b>  |
| 3C755           | 7.00                  | 4.56                                     | 5.11         | 5.37         | 6.14         | 6.45         | 6.59         |
| 3C765           | 7.00                  | 4.51                                     | 5.04         | 5.28         | 6.11         | 6.42         | 6.54         |
| 3C775           | 7.00                  | 4.35                                     | 4.96         | 5.17         | 6.09         | 6.40         | 6.52         |
| 3C785           | 7.00                  | 4.30                                     | 4.89         | 5.10         | 6.06         | 6.45         | 6.61         |
| 3C795           | 8.00                  | 4.25                                     | 4.85         | 5.06         | 6.07         | 6.45         | 6.58         |
| 3C805           | 8.00                  | 3.85                                     | 4.04         | 4.10         | 4.08         | 4.07         | 4.10         |
| 3C835           | 9.81                  | 9.04                                     | <b>9.82</b>  | <b>9.84</b>  | <b>9.87</b>  | <b>9.91</b>  | <b>9.95</b>  |
| 3C870           | 11.16                 | 7.15                                     | 8.56         | 8.67         | 8.75         | 8.82         | 8.89         |
| 3C880           | 11.00                 | 7.09                                     | 8.48         | 8.58         | 8.66         | 8.72         | 8.79         |
| 3C905           | 9.69                  | 9.05                                     | <b>9.77</b>  | <b>9.82</b>  | <b>9.86</b>  | <b>9.90</b>  | <b>9.93</b>  |
| 3C920           | 6.18                  | 4.71                                     | 5.37         | 5.70         | <b>6.26</b>  | <b>6.55</b>  | <b>6.73</b>  |
| 3D506           | 11.70                 | 6.54                                     | 7.83         | 8.04         | 8.18         | 8.37         | 8.54         |
| 3D906           | 8.80                  | <b>9.13</b>                              | <b>9.94</b>  | <b>9.95</b>  | <b>9.97</b>  | <b>9.99</b>  | <b>10.01</b> |
| 3D907           | 10.00                 | 9.25                                     | <b>10.01</b> | <b>10.03</b> | <b>10.05</b> | <b>10.07</b> | <b>10.10</b> |
| 4C1040          | 5.91                  | 4.27                                     | 5.11         | 5.71         | <b>5.92</b>  | <b>5.94</b>  | <b>5.96</b>  |
| 4C1080          | 8.50                  | 4.61                                     | 4.99         | 5.60         | 6.38         | 6.81         | 7.16         |
| 4C1170          | 11.24                 | 6.33                                     | 7.65         | 8.28         | 8.89         | 9.47         | 9.84         |
| 4C1190          | 9.71                  | 6.37                                     | 7.46         | 8.09         | 8.81         | 9.57         | <b>9.72</b>  |
| 4C1300          | 9.59                  | 4.88                                     | 5.58         | 5.98         | 6.44         | 6.96         | 7.28         |
| 4C1310          | 11.50                 | 5.52                                     | 6.47         | 6.93         | 7.39         | 7.82         | 8.02         |
| 4C1420          | 6.50                  | 4.69                                     | 5.26         | 5.56         | 5.88         | 6.04         | 6.09         |
| 4C1470          | 8.49                  | 4.22                                     | 4.88         | 5.37         | 5.77         | 5.98         | 6.08         |
| 4C155           | 13.90                 | 11.61                                    | 13.03        | 13.37        | 13.74        | <b>13.90</b> | <b>13.92</b> |
| 4C165           | 12.69                 | 11.12                                    | <b>12.69</b> | <b>12.71</b> | <b>12.75</b> | <b>12.79</b> | <b>12.83</b> |
| 4C1680          | 10.45                 | <b>10.46</b>                             | <b>10.48</b> | <b>10.49</b> | <b>10.50</b> | <b>10.51</b> | <b>10.53</b> |
| 4C230           | 12.00                 | <b>12.04</b>                             | <b>12.13</b> | <b>12.20</b> | <b>12.29</b> | <b>12.41</b> | <b>12.54</b> |
| 4C235           | 4.99                  | 4.47                                     | 4.96         | <b>5.01</b>  | <b>5.04</b>  | <b>5.09</b>  | <b>5.16</b>  |
| 4C265           | 6.00                  | 4.67                                     | 5.25         | 5.55         | 5.87         | <b>6.03</b>  | <b>6.08</b>  |
| 4C295           | 4.00                  | 3.63                                     | 3.65         | 3.65         | 3.66         | 3.67         | 3.83         |
| 4C305           | 4.53                  | 3.99                                     | 4.17         | 4.26         | 4.36         | 4.44         | 4.51         |
| 4C315           | 7.00                  | 4.78                                     | 5.42         | 5.79         | 6.19         | 6.62         | 6.86         |
| 4C335           | 8.29                  | 4.58                                     | 4.95         | 5.53         | 6.27         | 6.68         | 7.03         |
| 4C345           | 11.20                 | 8.17                                     | 10.40        | <b>11.21</b> | <b>11.21</b> | <b>11.22</b> | <b>11.24</b> |
| 4C350           | 13.00                 | 10.62                                    | 12.40        | 12.62        | 12.76        | 12.84        | 12.98        |
| 4C385           | 9.50                  | 4.80                                     | 5.44         | 5.81         | 6.22         | 6.67         | 6.93         |
| 4C490           | 11.29                 | 8.14                                     | 10.44        | <b>11.33</b> | <b>11.36</b> | <b>11.38</b> | <b>11.60</b> |

**Table C-1. Existing Conditions Peak Water Surface Elevations (Scenario 1)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |              |              |              |              |              |
|-----------------|-----------------------|--|--------------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft)    | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 4C500           | 11.41                 | 6.81                                     | 6.82         | 8.29         | 10.54        | 11.22        | <b>11.45</b> |
| 4C525           | 4.00                  | <b>4.56</b>                              | <b>5.07</b>  | <b>5.34</b>  | <b>5.63</b>  | <b>5.81</b>  | <b>5.86</b>  |
| 4C545           | 11.30                 | 8.14                                     | 10.44        | <b>11.30</b> | <b>11.30</b> | <b>11.34</b> | <b>11.58</b> |
| 4C580           | 12.30                 | 8.67                                     | 11.11        | <b>12.30</b> | <b>12.31</b> | <b>12.33</b> | <b>12.34</b> |
| 4C590           | 12.30                 | 8.63                                     | 11.09        | 12.28        | <b>12.30</b> | <b>12.30</b> | <b>12.30</b> |
| 4C610           | 13.30                 | 7.45                                     | 9.53         | 10.59        | 11.47        | 12.27        | 12.89        |
| 4C620           | 13.20                 | 7.44                                     | 9.53         | 10.58        | 11.46        | 12.27        | 12.89        |
| 4C750           | 12.62                 | 8.44                                     | 10.24        | 10.92        | 11.54        | 12.04        | 12.48        |
| 4C840           | 12.00                 | 7.11                                     | 8.73         | 9.46         | 10.13        | 10.75        | 11.14        |
| 4C890           | 9.31                  | 4.92                                     | 5.30         | 6.20         | 7.26         | 7.79         | 8.11         |
| 4C900           | 9.20                  | 4.76                                     | 5.14         | 5.90         | 6.83         | 7.31         | 7.64         |
| 4D1421          | 6.00                  | 4.67                                     | 5.25         | 5.55         | 5.87         | <b>6.03</b>  | <b>6.08</b>  |
| 4D300           | 6.00                  | 3.63                                     | 3.64         | 3.65         | 3.66         | 3.67         | 3.75         |
| 4D301           | 7.00                  | 3.63                                     | 3.64         | 3.65         | 3.66         | 3.67         | 3.73         |
| 4D302           | 6.00                  | 3.63                                     | 3.64         | 3.65         | 3.66         | 3.67         | 3.71         |
| 4D303           | 4.00                  | 3.62                                     | 3.64         | 3.64         | 3.65         | 3.66         | 3.69         |
| 4D304           | 5.00                  | 3.62                                     | 3.63         | 3.63         | 3.64         | 3.64         | 3.65         |
| 4D305           | 5.00                  | 3.61                                     | 3.62         | 3.63         | 3.63         | 3.64         | 3.64         |
| 4D306           | 5.50                  | 3.61                                     | 3.62         | 3.62         | 3.63         | 3.63         | 3.63         |
| 4D307           | 4.00                  | 3.62                                     | 3.64         | 3.64         | 3.65         | 3.66         | 3.69         |
| 4D316           | 7.00                  | 4.73                                     | 5.33         | 5.66         | 6.02         | 6.34         | 6.46         |
| 4D526           | 4.00                  | <b>4.16</b>                              | <b>4.42</b>  | <b>4.57</b>  | <b>4.74</b>  | <b>4.93</b>  | <b>5.10</b>  |
| 4D527           | 4.00                  | 3.92                                     | <b>4.05</b>  | <b>4.13</b>  | <b>4.23</b>  | <b>4.32</b>  | <b>4.41</b>  |
| 4D528           | 4.00                  | 3.89                                     | <b>4.01</b>  | <b>4.09</b>  | <b>4.17</b>  | <b>4.26</b>  | <b>4.33</b>  |
| 4D529           | 4.00                  | 3.77                                     | 3.84         | 3.89         | 3.94         | 3.99         | <b>4.11</b>  |
| 5C1000          | 16.40                 | 15.86                                    | 16.20        | <b>16.40</b> | <b>16.45</b> | <b>16.52</b> | <b>16.59</b> |
| 5C120           | 16.50                 | 15.86                                    | 16.40        | <b>16.56</b> | <b>16.73</b> | <b>16.93</b> | <b>17.13</b> |
| 5C1240          | 16.40                 | 15.86                                    | 16.15        | <b>16.45</b> | <b>16.59</b> | <b>16.75</b> | <b>16.91</b> |
| 5C1370          | 16.40                 | 15.86                                    | 16.14        | 16.26        | 16.37        | <b>16.48</b> | <b>16.59</b> |
| 5C1390          | 16.00                 | 15.86                                    | <b>16.14</b> | <b>16.26</b> | <b>16.37</b> | <b>16.48</b> | <b>16.59</b> |
| 5C150           | 17.00                 | 15.86                                    | 16.36        | 16.47        | 16.58        | 16.71        | 16.82        |
| 5C1550          | 15.70                 | <b>15.81</b>                             | <b>16.09</b> | <b>16.22</b> | <b>16.30</b> | <b>16.41</b> | <b>16.52</b> |
| 5C1590          | 15.50                 | <b>15.86</b>                             | <b>16.14</b> | <b>16.26</b> | <b>16.37</b> | <b>16.48</b> | <b>16.59</b> |
| 5C160           | 17.50                 | 17.17                                    | <b>17.55</b> | <b>17.60</b> | <b>17.65</b> | <b>17.71</b> | <b>17.78</b> |
| 5C1670          | 16.00                 | 15.86                                    | <b>16.17</b> | <b>16.37</b> | <b>16.64</b> | <b>16.97</b> | <b>17.29</b> |
| 5C1680          | 16.00                 | 15.86                                    | <b>16.16</b> | <b>16.33</b> | <b>16.57</b> | <b>16.87</b> | <b>17.15</b> |
| 5C1690          | 15.84                 | <b>15.86</b>                             | <b>16.16</b> | <b>16.34</b> | <b>16.57</b> | <b>16.87</b> | <b>17.16</b> |
| 5C170           | 17.50                 | 15.86                                    | 16.27        | 16.38        | 16.48        | 16.60        | 16.70        |
| 5C1720          | 15.61                 | <b>15.86</b>                             | <b>16.15</b> | <b>16.32</b> | <b>16.54</b> | <b>16.82</b> | <b>17.09</b> |

**Table C-1. Existing Conditions Peak Water Surface Elevations (Scenario 1)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |              |              |              |              |              |
|-----------------|-----------------------|--|--------------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft)    | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 5C1730          | 15.50                 | <b>15.86</b>                             | <b>16.15</b> | <b>16.31</b> | <b>16.53</b> | <b>16.81</b> | <b>17.08</b> |
| 5C180           | 18.00                 | 17.34                                    | <b>18.00</b> | <b>18.01</b> | <b>18.02</b> | <b>18.04</b> | <b>18.06</b> |
| 5C1850          | 16.00                 | 15.86                                    | <b>16.15</b> | <b>16.27</b> | <b>16.38</b> | <b>16.49</b> | <b>16.59</b> |
| 5C1880          | 15.68                 | 14.80                                    | <b>15.68</b> | <b>15.68</b> | <b>15.69</b> | <b>15.70</b> | <b>15.71</b> |
| 5C190           | 19.00                 | 17.72                                    | <b>19.00</b> | <b>19.01</b> | <b>19.03</b> | <b>19.05</b> | <b>19.06</b> |
| 5C340           | 17.50                 | 12.48                                    | 13.94        | 14.92        | 15.60        | 16.22        | 16.56        |
| 5C350           | 17.50                 | 13.05                                    | 14.33        | 15.15        | 15.69        | 16.16        | 16.47        |
| 5C370           | 16.74                 | 12.31                                    | 13.82        | 14.85        | 15.57        | 16.22        | 16.60        |
| 5C625           | 16.03                 | 15.87                                    | <b>16.15</b> | <b>16.27</b> | <b>16.38</b> | <b>16.49</b> | <b>16.60</b> |
| 5C635           | 16.03                 | 15.86                                    | <b>16.15</b> | <b>16.27</b> | <b>16.38</b> | <b>16.49</b> | <b>16.59</b> |
| 5C645           | 17.00                 | 15.86                                    | 16.14        | 16.26        | 16.37        | 16.48        | 16.59        |
| 5C655           | 17.00                 | 15.86                                    | 16.27        | 16.37        | 16.48        | 16.59        | 16.70        |
| 5C685           | 13.44                 | 10.50                                    | 10.89        | 11.53        | 11.75        | 11.93        | 12.04        |
| 5C715           | 16.00                 | 15.86                                    | <b>16.13</b> | <b>16.24</b> | <b>16.34</b> | <b>16.46</b> | <b>16.57</b> |
| 5C755           | 16.70                 | 16.45                                    | <b>16.73</b> | <b>16.78</b> | <b>16.85</b> | <b>16.93</b> | <b>17.01</b> |
| 5C785           | 16.63                 | 16.45                                    | <b>16.73</b> | <b>16.78</b> | <b>16.85</b> | <b>16.93</b> | <b>17.01</b> |
| 5C810           | 17.30                 | 15.86                                    | 17.17        | <b>17.31</b> | <b>17.33</b> | <b>17.35</b> | <b>17.37</b> |
| 5C815           | 18.50                 | 15.85                                    | 16.14        | 16.26        | 16.37        | 16.48        | 16.59        |
| 5C910           | 16.20                 | 15.86                                    | <b>16.29</b> | <b>16.47</b> | <b>16.54</b> | <b>16.63</b> | <b>16.73</b> |
| 5C960           | 16.19                 | 15.86                                    | 16.18        | <b>16.30</b> | <b>16.37</b> | <b>16.49</b> | <b>16.59</b> |
| 5C980           | 16.30                 | 15.86                                    | 16.19        | <b>16.31</b> | <b>16.37</b> | <b>16.49</b> | <b>16.59</b> |
| 5D1591          | 15.50                 | <b>15.86</b>                             | <b>16.14</b> | <b>16.26</b> | <b>16.37</b> | <b>16.48</b> | <b>16.59</b> |
| 5D624           | 16.03                 | <b>16.07</b>                             | <b>16.39</b> | <b>16.52</b> | <b>16.66</b> | <b>16.82</b> | <b>16.96</b> |
| 6C135           | 15.80                 | 14.87                                    | <b>15.81</b> | <b>15.86</b> | <b>15.94</b> | <b>16.03</b> | <b>16.12</b> |
| 6C195           | 14.50                 | 10.94                                    | 11.04        | 11.64        | 12.20        | 12.73        | 13.16        |
| 6C215           | 16.00                 | 13.32                                    | 14.53        | 14.71        | 14.64        | 14.96        | 15.18        |
| 6C225           | 16.50                 | 13.38                                    | 14.57        | 14.74        | 14.74        | 15.00        | 15.22        |
| 6C235           | 16.30                 | 13.87                                    | 15.48        | 15.92        | 16.23        | <b>16.31</b> | <b>16.33</b> |
| 6C255           | 15.50                 | 9.70                                     | 10.67        | 11.57        | 12.13        | 12.66        | 13.10        |
| 6C265           | 14.50                 | 9.58                                     | 10.58        | 11.55        | 12.12        | 12.65        | 13.09        |
| 6C315           | 14.00                 | 9.59                                     | 10.57        | 11.54        | 12.11        | 12.65        | 13.09        |
| 6C3160          | 16.66                 | 15.53                                    | 15.80        | 15.97        | 16.16        | 16.40        | 16.63        |
| 6C3200          | 16.50                 | 15.43                                    | 15.72        | 15.85        | 16.03        | 16.25        | 16.42        |
| 6C3210          | 16.34                 | 15.39                                    | 15.66        | 15.80        | 15.98        | 16.19        | <b>16.37</b> |
| 6C3220          | 17.00                 | 15.55                                    | 15.88        | 16.02        | 16.19        | 16.39        | 16.56        |
| 6C3230          | 17.38                 | 15.39                                    | 15.66        | 15.79        | 15.97        | 16.18        | 16.36        |
| 6C325           | 16.32                 | 10.52                                    | 10.86        | 11.78        | 12.32        | 12.81        | 13.23        |
| 6C3250          | 17.00                 | 15.38                                    | 15.65        | 15.78        | 15.93        | 16.12        | 16.23        |
| 6C335           | 15.50                 | <b>15.50</b>                             | <b>15.57</b> | <b>15.61</b> | <b>15.67</b> | <b>15.74</b> | <b>15.80</b> |

**Table C-1. Existing Conditions Peak Water Surface Elevations (Scenario 1)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |              |              |              |              |              |
|-----------------|-----------------------|--|--------------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft)    | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 6C3490          | 16.38                 | 15.74                                    | <b>16.39</b> | <b>16.40</b> | <b>16.41</b> | <b>16.43</b> | <b>16.44</b> |
| 6C3580          | 16.11                 | 15.49                                    | <b>16.11</b> | <b>16.11</b> | <b>16.11</b> | <b>16.11</b> | <b>16.12</b> |
| 6C365           | 16.00                 | 15.68                                    | <b>16.00</b> | <b>16.01</b> | <b>16.04</b> | <b>16.07</b> | <b>16.10</b> |
| 6C3660          | 15.11                 | 14.20                                    | 14.58        | 14.70        | 14.86        | <b>15.11</b> | <b>15.12</b> |
| 6C3670          | 15.00                 | 13.94                                    | 14.19        | 14.35        | 14.54        | 14.87        | <b>15.01</b> |
| 6C3680          | 14.50                 | 12.53                                    | 13.10        | 13.36        | 13.64        | 14.08        | 14.48        |
| 6C3690          | 14.84                 | 12.26                                    | 12.48        | 12.49        | 12.56        | 13.05        | 13.61        |
| 6C3700          | 15.00                 | 10.62                                    | 10.90        | 11.57        | 12.13        | 12.66        | 13.10        |
| 6C3710          | 14.26                 | <b>14.28</b>                             | <b>14.35</b> | <b>14.40</b> | <b>14.47</b> | <b>14.55</b> | <b>14.66</b> |
| 6C3720          | 15.16                 | 14.31                                    | 14.46        | 14.49        | 14.52        | 14.56        | 14.61        |
| 6C3730          | 15.23                 | 14.32                                    | 14.51        | 14.56        | 14.60        | 14.65        | 14.71        |
| 6C3750          | 14.50                 | 14.31                                    | <b>14.50</b> | <b>14.52</b> | <b>14.53</b> | <b>14.55</b> | <b>14.57</b> |
| 6C3830          | 18.58                 | 15.63                                    | 16.17        | 16.53        | 16.97        | 17.70        | 17.95        |
| 6C3890          | 17.00                 | 15.32                                    | 15.87        | 16.28        | 16.61        | <b>17.00</b> | <b>17.00</b> |
| 6C3920          | 16.00                 | 15.22                                    | 15.61        | <b>16.00</b> | <b>16.04</b> | <b>16.09</b> | <b>16.14</b> |
| 6C4060          | 15.73                 | <b>15.76</b>                             | <b>16.08</b> | <b>16.29</b> | <b>16.54</b> | <b>16.85</b> | <b>17.16</b> |
| 6C4110          | 11.25                 | 5.06                                     | 5.68         | 5.99         | 6.19         | 6.38         | 6.55         |
| 6C4160          | 8.00                  | 4.39                                     | 4.64         | 4.78         | 4.89         | 4.99         | 5.08         |
| 6C4200          | 12.03                 | 6.11                                     | 7.48         | 8.00         | 8.61         | 9.30         | 9.86         |
| 6C4210A         | 12.50                 | 6.42                                     | 7.69         | 8.34         | 8.73         | 9.09         | 9.38         |
| 6C4220          | 13.50                 | 7.54                                     | 9.21         | 10.12        | 10.68        | 11.21        | 11.63        |
| 6C4270          | 14.00                 | 8.31                                     | 10.00        | 11.04        | 11.64        | 12.19        | 12.64        |
| 6C445           | 15.00                 | <b>15.37</b>                             | <b>15.63</b> | <b>15.74</b> | <b>15.88</b> | <b>16.06</b> | <b>16.16</b> |
| 6C455           | 13.50                 | 9.24                                     | 10.30        | 11.19        | 11.75        | 12.27        | 12.70        |
| 6C465           | 14.50                 | 9.53                                     | 10.56        | 11.54        | 12.11        | 12.65        | 13.09        |
| 6C505           | 16.00                 | 15.50                                    | 15.82        | 15.88        | 15.94        | <b>16.01</b> | <b>16.07</b> |
| 6C5070          | 19.00                 | 15.37                                    | 15.88        | 16.26        | 16.78        | 17.26        | 17.60        |
| 6C5150          | 19.00                 | 15.44                                    | 15.99        | 16.36        | 16.91        | 17.44        | 17.81        |
| 6C5160          | 24.00                 | 16.17                                    | 17.99        | 19.26        | 20.92        | 23.10        | <b>24.00</b> |
| 6C5170          | 19.00                 | 15.41                                    | 15.93        | 16.29        | 16.81        | 17.28        | 17.61        |
| 6C575           | 16.50                 | 13.80                                    | 15.33        | 15.78        | 15.96        | 16.02        | 16.07        |
| 6C615           | 15.00                 | 14.46                                    | 14.73        | 14.83        | 14.94        | 14.99        | <b>15.00</b> |
| 6C8000          | 19.24                 | 18.84                                    | <b>19.75</b> | <b>19.96</b> | <b>20.19</b> | <b>20.47</b> | <b>20.74</b> |
| 6C8020          | 19.70                 | 18.78                                    | 19.68        | <b>19.72</b> | <b>19.75</b> | <b>19.79</b> | <b>19.82</b> |
| 6C9020          | 14.58                 | 12.39                                    | 12.46        | 12.46        | 12.46        | 12.83        | 13.21        |
| 6C9080          | 14.50                 | 14.31                                    | <b>14.50</b> | <b>14.51</b> | <b>14.52</b> | <b>14.54</b> | <b>14.56</b> |
| 6C9120          | 16.87                 | 15.32                                    | 16.30        | 16.78        | <b>16.88</b> | <b>16.88</b> | <b>16.89</b> |
| 6C9160          | 18.28                 | 14.93                                    | 15.96        | 16.08        | 16.18        | 16.25        | 16.32        |
| 6C9200          | 17.16                 | 15.04                                    | 16.17        | 16.49        | 16.58        | 16.61        | 16.64        |

**Table C-1. Existing Conditions Peak Water Surface Elevations (Scenario 1)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |              |              |              |              |              |
|-----------------|-----------------------|--|--------------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft)    | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 6C945           | 17.30                 | 14.88                                    | 15.46        | 15.97        | 16.10        | 16.14        | 16.19        |
| 6C955           | 19.00                 | 15.10                                    | 15.55        | 16.01        | 16.22        | 16.31        | 16.38        |
| 6C975           | 16.13                 | 13.06                                    | 13.07        | 13.29        | 13.57        | 13.98        | 14.23        |
| 6C985           | 15.11                 | 14.49                                    | 14.82        | 14.93        | 15.06        | <b>15.11</b> | <b>15.12</b> |
| 6D416           | 16.00                 | 15.72                                    | <b>16.01</b> | <b>16.04</b> | <b>16.08</b> | <b>16.12</b> | <b>16.17</b> |
| 6D4161          | 10.00                 | 4.17                                     | 4.40         | 4.53         | 4.64         | 4.75         | 4.84         |
| 6D946           | 16.00                 | 13.91                                    | 15.39        | 15.88        | <b>16.01</b> | <b>16.05</b> | <b>16.11</b> |
| 7C105           | 7.00                  | 3.84                                     | 3.98         | 4.04         | 4.11         | 4.20         | 4.28         |
| 7C135           | 6.00                  | 3.93                                     | 4.10         | 4.19         | 4.28         | 4.38         | 4.48         |
| 7C175           | 10.00                 | 5.56                                     | 6.06         | 6.37         | 6.75         | 7.15         | 7.50         |
| 7C225           | 7.00                  | 5.56                                     | 6.06         | 6.37         | 6.75         | <b>7.15</b>  | <b>7.50</b>  |
| 7C235           | 11.15                 | 8.26                                     | 8.53         | 8.60         | 8.71         | 8.87         | 9.81         |
| 7C295           | 5.41                  | <b>5.54</b>                              | <b>6.04</b>  | <b>6.35</b>  | <b>6.72</b>  | <b>7.13</b>  | <b>7.47</b>  |
| 7C315           | 5.59                  | <b>5.71</b>                              | <b>6.30</b>  | <b>6.66</b>  | <b>7.09</b>  | <b>7.60</b>  | <b>8.10</b>  |
| 7C355           | 10.00                 | 3.84                                     | 3.97         | 4.04         | 4.11         | 4.19         | 4.27         |
| 7C365           | 10.00                 | 3.85                                     | 4.00         | 4.12         | 4.27         | 4.46         | 4.66         |
| 7D356           | 6.00                  | 3.84                                     | 3.97         | 4.04         | 4.11         | 4.19         | 4.27         |
| 7D357           | 6.00                  | 3.84                                     | 3.97         | 4.03         | 4.10         | 4.19         | 4.26         |
| 7D358           | 7.00                  | 3.84                                     | 3.97         | 4.03         | 4.10         | 4.18         | 4.26         |
| 7D359           | 6.00                  | 3.84                                     | 3.97         | 4.03         | 4.10         | 4.18         | 4.26         |
| 7D360           | 6.00                  | 3.84                                     | 3.97         | 4.03         | 4.10         | 4.19         | 4.26         |
| 7D370           | 6.00                  | 3.84                                     | 3.97         | 4.03         | 4.10         | 4.18         | 4.26         |
| 7D371           | 5.00                  | 3.83                                     | 3.97         | 4.03         | 4.10         | 4.18         | 4.26         |
| 7D372           | 6.00                  | 3.83                                     | 3.96         | 4.02         | 4.09         | 4.17         | 4.25         |
| 8C120           | 10.50                 | <b>10.51</b>                             | <b>10.55</b> | <b>10.58</b> | <b>10.61</b> | <b>10.65</b> | <b>10.70</b> |
| 8C125           | 8.00                  | 5.13                                     | 6.51         | 7.39         | <b>8.00</b>  | <b>8.02</b>  | <b>8.03</b>  |
| 8C155           | 6.00                  | 3.96                                     | 4.15         | 4.25         | 4.35         | 4.45         | 4.56         |
| 8C160           | 10.00                 | <b>10.03</b>                             | <b>10.13</b> | <b>10.19</b> | <b>10.26</b> | <b>10.35</b> | <b>10.43</b> |
| 8C180           | 9.50                  | <b>9.52</b>                              | <b>9.63</b>  | <b>9.70</b>  | <b>9.79</b>  | <b>9.89</b>  | <b>9.99</b>  |
| 8C190           | 10.20                 | 9.56                                     | 9.65         | 9.72         | 9.80         | 9.91         | 10.00        |
| 8C210           | 8.79                  | 8.33                                     | <b>8.81</b>  | <b>8.95</b>  | <b>9.12</b>  | <b>9.29</b>  | <b>9.42</b>  |
| 8C2230          | 10.10                 | <b>10.10</b>                             | <b>10.16</b> | <b>10.21</b> | <b>10.26</b> | <b>10.33</b> | <b>10.40</b> |
| 8C2240          | 11.00                 | 10.24                                    | 10.43        | 10.59        | 10.80        | <b>11.00</b> | <b>11.01</b> |
| 8C230           | 8.59                  | 8.24                                     | <b>8.74</b>  | <b>8.88</b>  | <b>9.05</b>  | <b>9.23</b>  | <b>9.35</b>  |
| 8C2340          | 13.02                 | 8.94                                     | 9.30         | 9.31         | 9.31         | 9.30         | 9.30         |
| 8C2360          | 11.77                 | 10.41                                    | <b>11.78</b> | <b>11.79</b> | <b>11.80</b> | <b>11.82</b> | <b>11.84</b> |
| 8C2390          | 6.00                  | 3.96                                     | 4.15         | 4.25         | 4.36         | 4.46         | 4.56         |
| 8C2430          | 4.10                  | 4.04                                     | <b>4.24</b>  | <b>4.35</b>  | <b>4.48</b>  | <b>4.59</b>  | <b>4.70</b>  |
| 8C2470          | 5.50                  | 4.06                                     | 4.26         | 4.37         | 4.50         | 4.62         | 4.73         |



**Table C-1. Existing Conditions Peak Water Surface Elevations (Scenario 1)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |              |              |              |              |              |
|-----------------|-----------------------|--|--------------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft)    | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 8C2530          | 11.90                 | 7.49                                     | 10.20        | 11.63        | <b>11.90</b> | <b>11.91</b> | <b>11.92</b> |
| 8C270           | 8.02                  | 7.07                                     | 7.60         | 7.77         | 7.98         | <b>8.03</b>  | <b>8.05</b>  |
| 8C330           | 8.33                  | 6.51                                     | 6.78         | 6.87         | 6.99         | 7.04         | 7.08         |
| 8C355           | 5.25                  | 4.45                                     | 4.72         | 4.94         | <b>5.41</b>  | <b>5.63</b>  | <b>5.78</b>  |
| 8C425           | 7.00                  | 4.77                                     | 5.02         | 5.17         | 5.35         | 5.52         | 5.68         |
| 8C435           | 7.00                  | 4.77                                     | 5.01         | 5.16         | 5.33         | 5.48         | 5.61         |
| 8C445           | 5.00                  | 4.15                                     | 4.35         | 4.46         | 4.60         | 4.71         | 4.82         |
| 8C455           | 4.86                  | 4.41                                     | 4.63         | 4.76         | <b>4.96</b>  | <b>5.09</b>  | <b>5.21</b>  |
| 8C535           | 6.28                  | 6.25                                     | <b>6.37</b>  | <b>6.44</b>  | <b>6.55</b>  | <b>6.67</b>  | <b>6.78</b>  |
| 8C539           | 7.12                  | 4.78                                     | 5.03         | 5.22         | 5.45         | 5.70         | 5.93         |
| 8C545           | 7.00                  | 6.50                                     | 6.75         | 6.85         | 6.96         | <b>7.01</b>  | <b>7.03</b>  |
| 8C615           | 6.66                  | 4.78                                     | 5.07         | 5.29         | 5.55         | 5.85         | 6.14         |
| 8C705           | 4.48                  | 4.04                                     | 4.25         | 4.36         | <b>4.50</b>  | <b>4.62</b>  | <b>4.74</b>  |
| 8C725           | 10.45                 | 4.58                                     | 4.76         | 5.01         | 5.72         | 5.92         | 6.04         |
| 8C745           | 6.00                  | 3.99                                     | 4.21         | 4.35         | 4.49         | 4.59         | 4.69         |
| 8C795           | 10.00                 | <b>10.03</b>                             | <b>10.13</b> | <b>10.19</b> | <b>10.27</b> | <b>10.35</b> | <b>10.44</b> |
| 8C805           | 16.00                 | 12.66                                    | 13.24        | 13.73        | 14.65        | 15.41        | 15.92        |
| 8C815           | 16.00                 | 13.33                                    | 14.42        | 15.73        | <b>16.02</b> | <b>16.07</b> | <b>16.13</b> |
| 9C240           | 11.55                 | 10.46                                    | <b>11.56</b> | <b>11.57</b> | <b>11.58</b> | <b>11.60</b> | <b>11.62</b> |
| 9C250           | 11.20                 | 9.96                                     | 10.79        | 10.81        | 10.85        | 10.92        | 10.97        |
| 9C250B          | 13.08                 | <b>13.17</b>                             | <b>13.27</b> | <b>13.34</b> | <b>13.43</b> | <b>13.55</b> | <b>13.67</b> |
| 9C280           | 9.77                  | 8.90                                     | <b>9.77</b>  | <b>9.78</b>  | <b>9.79</b>  | <b>9.81</b>  | <b>9.82</b>  |
| 9C310           | 10.00                 | 4.53                                     | 5.18         | 5.48         | 5.82         | 6.06         | 6.18         |
| 9C360           | 6.26                  | 4.40                                     | 4.96         | 5.23         | 5.52         | 5.74         | 5.85         |
| 9C515           | 8.00                  | <b>8.00</b>                              | <b>8.05</b>  | <b>8.08</b>  | <b>8.12</b>  | <b>8.17</b>  | <b>8.22</b>  |
| 9C525           | 8.00                  | 5.63                                     | 5.64         | 5.66         | 5.68         | 5.68         | 5.68         |
| 9C535           | 6.00                  | 4.52                                     | 5.16         | 5.47         | 5.81         | <b>6.05</b>  | <b>6.17</b>  |
| 9C545           | 6.00                  | 3.89                                     | 4.05         | 4.13         | 4.22         | 4.33         | 4.43         |
| 9C605           | 9.64                  | 7.20                                     | 7.46         | 7.51         | 7.56         | 7.62         | 7.68         |
| 9C615           | 12.00                 | 7.06                                     | 7.33         | 7.39         | 7.45         | 7.52         | 7.58         |
| 9D311           | 7.00                  | 4.52                                     | 5.17         | 5.48         | 5.82         | 6.06         | 6.18         |
| 9D526           | 8.00                  | 4.12                                     | 4.21         | 4.26         | 4.32         | 4.39         | 4.48         |
| 9D527           | 8.00                  | 3.89                                     | 4.05         | 4.13         | 4.21         | 4.31         | 4.41         |
| 9D528           | 8.00                  | 3.89                                     | 4.05         | 4.13         | 4.21         | 4.31         | 4.41         |
| 9D546           | 4.00                  | 3.89                                     | <b>4.05</b>  | <b>4.13</b>  | <b>4.22</b>  | <b>4.33</b>  | <b>4.42</b>  |
| 9D547           | 4.00                  | 3.89                                     | <b>4.05</b>  | <b>4.13</b>  | <b>4.22</b>  | <b>4.32</b>  | <b>4.42</b>  |
| 9D548           | 4.00                  | 3.89                                     | <b>4.05</b>  | <b>4.13</b>  | <b>4.21</b>  | <b>4.32</b>  | <b>4.42</b>  |
| 9D586           | 8.00                  | 3.89                                     | 4.05         | 4.13         | 4.21         | 4.31         | 4.41         |
| 9D587           | 8.00                  | 3.89                                     | 4.05         | 4.13         | 4.21         | 4.31         | 4.41         |

**Table C-1. Existing Conditions Peak Water Surface Elevations (Scenario 1)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |             |             |             |             |             |
|-----------------|-----------------------|--|-------------|-------------|-------------|-------------|-------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft)   | 10-Yr (ft)  | 25-Yr (ft)  | 50-Yr (ft)  | 100-Yr (ft) |
| 9D588           | 8.00                  | 3.88                                     | 4.04        | 4.12        | 4.21        | 4.31        | 4.41        |
| 9D589           | 8.00                  | 3.83                                     | 3.96        | 4.03        | 4.10        | 4.18        | 4.26        |
| 9D590           | 4.00                  | 3.83                                     | 3.96        | <b>4.03</b> | <b>4.10</b> | <b>4.17</b> | <b>4.25</b> |
| 9D591           | 4.00                  | 3.83                                     | 3.96        | <b>4.02</b> | <b>4.09</b> | <b>4.17</b> | <b>4.25</b> |
| 9D592           | 6.00                  | 3.83                                     | 3.96        | 4.02        | 4.09        | 4.17        | 4.25        |
| 9D600           | 5.00                  | 3.83                                     | 3.96        | 4.02        | 4.09        | 4.17        | 4.25        |
| 9D616           | 8.00                  | 5.04                                     | 5.47        | 5.69        | 6.01        | 6.27        | 6.42        |
| 9D700           | 4.00                  | 3.89                                     | <b>4.05</b> | <b>4.13</b> | <b>4.23</b> | <b>4.33</b> | <b>4.43</b> |
| 9D705           | 6.00                  | 3.90                                     | 4.10        | 4.18        | 4.28        | 4.40        | 4.50        |
| 9D710           | 4.70                  | 4.09                                     | 4.64        | <b>4.91</b> | <b>5.30</b> | <b>5.81</b> | <b>6.32</b> |

**Table C-2. Future Conditions Peak Water Surface Elevations (Scenario 3)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |              |              |              |              |              |
|-----------------|-----------------------|--|--------------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft)    | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 1C115           | 14.96                 | 11.25                                    | 11.31        | 11.34        | 11.39        | 11.44        | 11.49        |
| 1C135           | 10.28                 | <b>10.39</b>                             | <b>10.51</b> | <b>10.58</b> | <b>10.66</b> | <b>10.75</b> | <b>10.84</b> |
| 1C135A          | 13.20                 | 10.58                                    | 10.94        | 11.17        | 11.45        | 11.78        | 12.08        |
| 1C195           | 9.00                  | 4.97                                     | 5.63         | 5.98         | 6.36         | 6.76         | 6.91         |
| 1C205           | 10.92                 | 4.93                                     | 5.58         | 5.93         | 6.31         | 6.70         | 6.85         |
| 1C215           | 9.63                  | 4.87                                     | 5.50         | 5.84         | 6.22         | 6.60         | 6.74         |
| 1C225           | 7.51                  | 4.80                                     | 5.42         | 5.75         | 6.12         | 6.49         | 6.63         |
| 1C230           | 11.00                 | <b>11.10</b>                             | <b>11.18</b> | <b>11.23</b> | <b>11.28</b> | <b>11.35</b> | <b>11.41</b> |
| 1C235           | 11.23                 | 5.84                                     | 7.24         | 8.07         | 9.05         | 10.19        | 11.09        |
| 1C275           | 11.96                 | 6.45                                     | 8.06         | 9.12         | 10.39        | 11.88        | <b>12.24</b> |
| 1C280           | 12.20                 | <b>12.30</b>                             | <b>12.43</b> | <b>12.50</b> | <b>12.57</b> | <b>12.66</b> | <b>12.74</b> |
| 1C310           | 15.24                 | 12.21                                    | 12.34        | 12.41        | 12.55        | 12.76        | 13.00        |
| 1C330           | 11.50                 | <b>11.50</b>                             | <b>11.54</b> | <b>11.57</b> | <b>11.62</b> | <b>11.67</b> | <b>11.72</b> |
| 1C340           | 10.32                 | 8.89                                     | 9.43         | 9.79         | 10.23        | <b>10.33</b> | <b>10.34</b> |
| 1C360           | 11.50                 | 10.82                                    | 11.00        | 11.22        | <b>11.50</b> | <b>11.52</b> | <b>11.53</b> |
| 1C370           | 10.70                 | <b>10.73</b>                             | <b>10.81</b> | <b>10.86</b> | <b>10.93</b> | <b>11.01</b> | <b>11.08</b> |
| 1C410           | 12.00                 | 11.03                                    | 11.52        | 11.90        | <b>12.00</b> | <b>12.01</b> | <b>12.02</b> |
| 1C435           | 8.00                  | 5.53                                     | 6.27         | 6.65         | 7.06         | 7.49         | 7.69         |
| 1C445           | 9.00                  | 6.18                                     | 6.69         | 7.01         | 7.37         | 7.81         | 7.98         |
| 1C475           | 8.00                  | 6.28                                     | 6.82         | 7.14         | 7.53         | 7.94         | <b>8.06</b>  |
| 1C495           | 8.50                  | 5.99                                     | 6.49         | 6.80         | 7.17         | 7.58         | 7.77         |
| 1C510           | 11.96                 | 10.86                                    | 11.08        | 11.35        | 11.79        | <b>11.96</b> | <b>11.97</b> |
| 1C580           | 10.72                 | 6.89                                     | 7.60         | 8.00         | 8.49         | 8.91         | 9.13         |
| 1C580A          | 10.60                 | 7.30                                     | 8.10         | 8.55         | 9.11         | 9.53         | 9.78         |
| 1C590           | 10.38                 | 6.37                                     | 6.95         | 7.29         | 7.70         | 8.10         | 8.28         |
| 1C610           | 8.50                  | 6.31                                     | 6.84         | 7.16         | 7.54         | 7.94         | 8.07         |
| 1C770           | 13.81                 | <b>13.82</b>                             | <b>13.87</b> | <b>13.90</b> | <b>13.94</b> | <b>13.99</b> | <b>14.03</b> |
| 1D226           | 10.00                 | 3.62                                     | 3.66         | 3.68         | 3.71         | 3.75         | 3.80         |
| 1D227           | 10.00                 | 3.62                                     | 3.65         | 3.68         | 3.71         | 3.75         | 3.80         |
| 1D228           | 10.00                 | 3.61                                     | 3.61         | 3.61         | 3.62         | 3.62         | 3.63         |
| 1D231           | 9.00                  | <b>9.03</b>                              | <b>9.09</b>  | <b>9.13</b>  | <b>9.17</b>  | <b>9.22</b>  | <b>9.27</b>  |
| 1D232           | 9.50                  | <b>9.51</b>                              | <b>9.57</b>  | <b>9.62</b>  | <b>9.69</b>  | <b>9.77</b>  | <b>9.84</b>  |
| 1D233           | 10.50                 | <b>10.63</b>                             | <b>10.78</b> | <b>10.87</b> | <b>10.98</b> | <b>11.11</b> | <b>11.24</b> |
| 1D234           | 10.00                 | 5.68                                     | 6.36         | 6.71         | 7.10         | 7.52         | 7.71         |
| 1D235           | 8.00                  | 5.65                                     | 6.34         | 6.70         | 7.09         | 7.52         | 7.71         |
| 1F226           | 7.50                  | 4.77                                     | 5.38         | 5.71         | 6.07         | 6.44         | 6.57         |
| 1F227           | 8.50                  | 4.37                                     | 4.78         | 5.00         | 5.23         | 5.48         | 5.56         |
| 1F228           | 9.00                  | 4.36                                     | 4.76         | 4.98         | 5.22         | 5.46         | 5.55         |
| 2C115           | 9.50                  | 5.01                                     | 5.89         | 6.39         | 6.94         | 7.51         | 7.58         |
| 2C125           | 7.50                  | 5.01                                     | 5.90         | 6.39         | 6.94         | <b>7.50</b>  | <b>7.57</b>  |

**Table C-2. Future Conditions Peak Water Surface Elevations (Scenario 3)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |              |              |              |              |              |
|-----------------|-----------------------|--|--------------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft)    | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 2C135           | 7.50                  | 5.04                                     | 5.93         | 6.42         | 6.98         | <b>7.51</b>  | <b>7.59</b>  |
| 2C165           | 22.86                 | 8.49                                     | 8.66         | 8.75         | 8.85         | 8.95         | 9.04         |
| 2C185           | 9.79                  | 6.00                                     | 6.63         | 7.20         | 7.83         | 8.62         | 9.43         |
| 2C195           | 10.00                 | 5.71                                     | 6.29         | 6.61         | 7.02         | 7.59         | 7.89         |
| 2C200           | 9.10                  | 8.97                                     | <b>9.11</b>  | <b>9.12</b>  | <b>9.13</b>  | <b>9.16</b>  | <b>9.20</b>  |
| 2C205           | 8.00                  | 4.98                                     | 5.85         | 6.34         | 6.89         | 7.45         | 7.64         |
| 2C215           | 8.00                  | 3.61                                     | 3.62         | 3.62         | 3.63         | 3.63         | 3.63         |
| 2C235           | 8.97                  | 7.70                                     | 8.53         | 8.86         | <b>8.97</b>  | <b>8.98</b>  | <b>9.00</b>  |
| 2C250           | 9.70                  | <b>9.72</b>                              | <b>9.76</b>  | <b>9.79</b>  | <b>9.82</b>  | <b>9.86</b>  | <b>9.91</b>  |
| 2C330           | 10.27                 | <b>10.31</b>                             | <b>10.36</b> | <b>10.40</b> | <b>10.45</b> | <b>10.52</b> | <b>10.58</b> |
| 2C340           | 11.00                 | 10.41                                    | 10.62        | 10.78        | <b>11.00</b> | <b>11.01</b> | <b>11.02</b> |
| 2C525           | 10.00                 | 5.05                                     | 5.93         | 6.42         | 6.98         | 7.52         | 7.60         |
| 2D220           | 8.00                  | 3.61                                     | 3.61         | 3.61         | 3.61         | 3.62         | 3.62         |
| 2D221           | 6.00                  | 3.60                                     | 3.60         | 3.61         | 3.61         | 3.61         | 3.61         |
| 3C145           | 9.89                  | 8.21                                     | 9.42         | 9.45         | 9.48         | 9.53         | 9.58         |
| 3C155           | 9.75                  | 8.27                                     | 9.47         | 9.50         | 9.53         | 9.58         | 9.62         |
| 3C175           | 10.00                 | 7.56                                     | 8.85         | 8.88         | 8.93         | 8.99         | 9.05         |
| 3C185           | 8.70                  | 7.42                                     | <b>8.72</b>  | <b>8.76</b>  | <b>8.81</b>  | <b>8.87</b>  | <b>8.93</b>  |
| 3C260           | 12.00                 | <b>12.05</b>                             | <b>12.12</b> | <b>12.17</b> | <b>12.22</b> | <b>12.28</b> | <b>12.34</b> |
| 3C265           | 15.03                 | 7.66                                     | 7.83         | 8.21         | 8.77         | 9.40         | 9.82         |
| 3C275           | 19.00                 | 6.36                                     | 7.62         | 8.16         | 8.71         | 9.30         | 9.53         |
| 3C285           | 13.00                 | 6.36                                     | 7.62         | 8.16         | 8.71         | 9.30         | 9.53         |
| 3C295           | 14.00                 | 6.37                                     | 7.64         | 8.19         | 8.74         | 9.35         | 9.52         |
| 3C305           | 14.00                 | 6.39                                     | 7.64         | 8.19         | 8.75         | 9.35         | 9.52         |
| 3C315           | 9.50                  | 6.72                                     | 7.68         | 8.24         | 8.84         | 9.49         | <b>9.53</b>  |
| 3C405           | 14.00                 | 6.29                                     | 7.60         | 8.14         | 8.69         | 9.29         | 9.52         |
| 3C420           | 11.19                 | 9.77                                     | <b>11.51</b> | <b>11.85</b> | <b>12.26</b> | <b>12.75</b> | <b>13.22</b> |
| 3C465           | 25.53                 | 12.41                                    | 12.53        | 12.59        | 12.66        | 12.73        | 12.79        |
| 3C490           | 10.20                 | <b>10.21</b>                             | <b>10.24</b> | <b>10.27</b> | <b>10.31</b> | <b>10.37</b> | <b>10.44</b> |
| 3C505           | 7.40                  | 6.45                                     | <b>7.42</b>  | <b>7.45</b>  | <b>7.50</b>  | <b>7.57</b>  | <b>7.62</b>  |
| 3C515           | 9.74                  | 6.17                                     | 7.25         | 7.46         | 7.57         | 7.78         | 7.97         |
| 3C535           | 8.42                  | 6.00                                     | 7.03         | 7.30         | 7.48         | 7.71         | 7.92         |
| 3C545           | 11.00                 | 6.15                                     | 7.33         | 7.68         | 8.02         | 8.37         | 8.60         |
| 3C595           | 8.00                  | 4.09                                     | 4.29         | 4.36         | 4.43         | 4.50         | 4.57         |
| 3C600           | 12.00                 | <b>12.00</b>                             | <b>12.03</b> | <b>12.05</b> | <b>12.07</b> | <b>12.10</b> | <b>12.13</b> |
| 3C625           | 9.00                  | 3.63                                     | 3.65         | 3.66         | 3.67         | 3.68         | 3.68         |
| 3C640           | 12.00                 | 11.97                                    | <b>12.01</b> | <b>12.02</b> | <b>12.03</b> | <b>12.05</b> | <b>12.07</b> |
| 3C685           | 10.52                 | 9.03                                     | 10.00        | 10.01        | 10.03        | 10.06        | 10.10        |
| 3C690           | 13.69                 | <b>13.69</b>                             | <b>13.71</b> | <b>13.72</b> | <b>13.73</b> | <b>13.74</b> | <b>13.76</b> |
| 3C695           | 10.08                 | 9.02                                     | <b>10.08</b> | <b>10.10</b> | <b>10.12</b> | <b>10.16</b> | <b>10.20</b> |

**Table C-2. Future Conditions Peak Water Surface Elevations (Scenario 3)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |              |              |              |              |              |
|-----------------|-----------------------|--|--------------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft)    | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 3C715           | 10.73                 | 9.39                                     | <b>10.79</b> | <b>10.93</b> | <b>11.12</b> | <b>11.35</b> | <b>11.58</b> |
| 3C725           | 5.00                  | 4.63                                     | <b>5.19</b>  | <b>5.46</b>  | <b>6.17</b>  | <b>6.48</b>  | <b>6.63</b>  |
| 3C735A          | 6.00                  | 4.62                                     | 5.18         | 5.44         | <b>6.17</b>  | <b>6.47</b>  | <b>6.62</b>  |
| 3C745A          | 6.00                  | 4.60                                     | 5.15         | 5.40         | <b>6.15</b>  | <b>6.46</b>  | <b>6.60</b>  |
| 3C755           | 7.00                  | 4.56                                     | 5.11         | 5.37         | 6.14         | 6.45         | 6.59         |
| 3C765           | 7.00                  | 4.51                                     | 5.04         | 5.28         | 6.10         | 6.41         | 6.54         |
| 3C775           | 7.00                  | 4.35                                     | 4.96         | 5.18         | 6.09         | 6.40         | 6.52         |
| 3C785           | 7.00                  | 4.30                                     | 4.89         | 5.10         | 6.05         | 6.45         | 6.60         |
| 3C795           | 8.00                  | 4.25                                     | 4.85         | 5.07         | 6.07         | 6.45         | 6.55         |
| 3C805           | 8.00                  | 3.85                                     | 4.04         | 4.10         | 4.09         | 4.07         | 4.11         |
| 3C835           | 9.81                  | 9.04                                     | <b>9.82</b>  | <b>9.84</b>  | <b>9.87</b>  | <b>9.91</b>  | <b>9.95</b>  |
| 3C870           | 11.16                 | 7.15                                     | 8.56         | 8.67         | 8.76         | 8.83         | 8.89         |
| 3C880           | 11.00                 | 7.10                                     | 8.48         | 8.58         | 8.66         | 8.72         | 8.79         |
| 3C905           | 9.69                  | 9.05                                     | <b>9.77</b>  | <b>9.82</b>  | <b>9.86</b>  | <b>9.90</b>  | <b>9.93</b>  |
| 3C920           | 6.18                  | 4.71                                     | 5.37         | 5.70         | <b>6.26</b>  | <b>6.55</b>  | <b>6.73</b>  |
| 3D506           | 11.70                 | 6.55                                     | 7.84         | 8.04         | 8.18         | 8.37         | 8.54         |
| 3D906           | 8.80                  | <b>9.13</b>                              | <b>9.94</b>  | <b>9.95</b>  | <b>9.97</b>  | <b>9.99</b>  | <b>10.01</b> |
| 3D907           | 10.00                 | 9.25                                     | <b>10.01</b> | <b>10.03</b> | <b>10.05</b> | <b>10.07</b> | <b>10.10</b> |
| 4C1040          | 5.91                  | 4.11                                     | 4.93         | 5.50         | <b>5.91</b>  | <b>5.93</b>  | <b>5.95</b>  |
| 4C1080          | 8.50                  | 4.40                                     | 4.70         | 5.58         | 6.19         | 6.61         | 6.98         |
| 4C1170          | 11.24                 | 6.24                                     | 7.43         | 7.98         | 8.60         | 9.26         | 9.70         |
| 4C1190          | 9.71                  | 6.28                                     | 7.31         | 7.92         | 8.62         | 9.38         | <b>9.71</b>  |
| 4C1300          | 9.59                  | 4.74                                     | 5.36         | 5.73         | 6.15         | 6.64         | 7.05         |
| 4C1310          | 11.50                 | 5.40                                     | 6.23         | 6.64         | 7.10         | 7.59         | 7.93         |
| 4C1420          | 6.50                  | 4.51                                     | 5.00         | 5.27         | 5.58         | 5.92         | 6.04         |
| 4C1470          | 8.49                  | 4.02                                     | 4.67         | 5.16         | 5.67         | 5.91         | 6.05         |
| 4C155           | 13.90                 | 11.60                                    | 13.02        | 13.36        | 13.73        | <b>13.90</b> | <b>13.92</b> |
| 4C165           | 12.69                 | 11.10                                    | <b>12.69</b> | <b>12.71</b> | <b>12.74</b> | <b>12.79</b> | <b>12.83</b> |
| 4C1680          | 10.45                 | <b>10.46</b>                             | <b>10.47</b> | <b>10.48</b> | <b>10.50</b> | <b>10.51</b> | <b>10.53</b> |
| 4C230           | 12.00                 | <b>12.03</b>                             | <b>12.13</b> | <b>12.20</b> | <b>12.29</b> | <b>12.41</b> | <b>12.53</b> |
| 4C235           | 4.99                  | 4.15                                     | 4.46         | 4.64         | 4.84         | <b>5.00</b>  | <b>5.02</b>  |
| 4C265           | 6.00                  | 4.49                                     | 4.98         | 5.25         | 5.57         | 5.90         | <b>6.02</b>  |
| 4C295           | 4.00                  | 3.64                                     | 3.65         | 3.66         | 3.67         | 3.68         | 3.69         |
| 4C305           | 4.53                  | 3.86                                     | 4.00         | 4.08         | 4.17         | 4.26         | 4.28         |
| 4C315           | 7.00                  | 4.62                                     | 5.19         | 5.52         | 5.89         | 6.32         | 6.69         |
| 4C335           | 8.29                  | 4.35                                     | 4.66         | 5.47         | 6.05         | 6.48         | 6.85         |
| 4C345           | 11.20                 | 8.44                                     | 10.85        | <b>11.20</b> | <b>11.20</b> | <b>11.23</b> | <b>11.26</b> |
| 4C350           | 13.00                 | 10.59                                    | 12.38        | 12.61        | 12.74        | 12.83        | 12.95        |
| 4C385           | 9.50                  | 4.64                                     | 5.21         | 5.54         | 5.93         | 6.36         | 6.74         |
| 4C490           | 11.29                 | 8.42                                     | 10.93        | <b>11.36</b> | <b>11.39</b> | <b>11.53</b> | <b>11.78</b> |

**Table C-2. Future Conditions Peak Water Surface Elevations (Scenario 3)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |              |              |              |              |              |
|-----------------|-----------------------|--|--------------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft)    | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 4C500           | 11.41                 | 6.84                                     | 6.82         | 9.85         | 10.99        | 11.37        | <b>11.60</b> |
| 4C525           | 4.00                  | <b>4.03</b>                              | <b>4.31</b>  | <b>4.47</b>  | <b>4.67</b>  | <b>4.89</b>  | <b>5.08</b>  |
| 4C545           | 11.30                 | 8.41                                     | 10.92        | <b>11.30</b> | <b>11.30</b> | <b>11.51</b> | <b>11.74</b> |
| 4C580           | 12.30                 | 8.78                                     | 9.81         | 10.71        | 11.45        | <b>12.30</b> | <b>12.32</b> |
| 4C590           | 12.30                 | 8.44                                     | 9.83         | 10.72        | 11.45        | 12.27        | 12.29        |
| 4C610           | 13.30                 | 7.40                                     | 9.11         | 9.98         | 11.00        | 12.12        | 12.66        |
| 4C620           | 13.20                 | 7.40                                     | 9.10         | 9.98         | 10.99        | 12.11        | 12.66        |
| 4C750           | 12.62                 | 8.40                                     | 10.10        | 10.72        | 11.36        | 11.96        | 12.37        |
| 4C840           | 12.00                 | 7.04                                     | 8.50         | 9.15         | 9.86         | 10.59        | 11.03        |
| 4C890           | 9.31                  | 4.71                                     | 5.00         | 6.48         | 7.24         | 7.67         | 7.99         |
| 4C900           | 9.20                  | 4.57                                     | 4.85         | 6.04         | 6.73         | 7.16         | 7.50         |
| 4D1421          | 6.00                  | 4.49                                     | 4.98         | 5.26         | 5.57         | 5.91         | <b>6.02</b>  |
| 4D300           | 6.00                  | 3.63                                     | 3.65         | 3.66         | 3.67         | 3.68         | 3.69         |
| 4D301           | 7.00                  | 3.63                                     | 3.65         | 3.66         | 3.67         | 3.68         | 3.69         |
| 4D302           | 6.00                  | 3.63                                     | 3.65         | 3.66         | 3.67         | 3.68         | 3.68         |
| 4D303           | 4.00                  | 3.63                                     | 3.64         | 3.65         | 3.66         | 3.67         | 3.67         |
| 4D304           | 5.00                  | 3.62                                     | 3.63         | 3.63         | 3.64         | 3.65         | 3.65         |
| 4D305           | 5.00                  | 3.62                                     | 3.62         | 3.63         | 3.63         | 3.64         | 3.65         |
| 4D306           | 5.50                  | 3.61                                     | 3.62         | 3.62         | 3.63         | 3.63         | 3.64         |
| 4D307           | 4.00                  | 3.63                                     | 3.64         | 3.65         | 3.66         | 3.66         | 3.67         |
| 4D316           | 7.00                  | 4.56                                     | 5.09         | 5.38         | 5.72         | 6.10         | 6.37         |
| 4D526           | 4.00                  | 3.77                                     | 3.87         | 3.92         | 3.99         | <b>4.04</b>  | <b>4.08</b>  |
| 4D527           | 4.00                  | 3.66                                     | 3.69         | 3.70         | 3.72         | 3.74         | 3.75         |
| 4D528           | 4.00                  | 3.66                                     | 3.68         | 3.70         | 3.72         | 3.74         | 3.75         |
| 4D529           | 3.73                  | 3.65                                     | 3.67         | 3.68         | 3.70         | 3.71         | 3.72         |
| 5C1000          | 16.40                 | 13.72                                    | 14.50        | 14.95        | 15.48        | 15.94        | 16.25        |
| 5C120           | 16.50                 | 14.02                                    | 14.96        | 15.33        | 15.77        | 16.25        | <b>16.59</b> |
| 5C1240          | 16.40                 | 14.28                                    | 14.62        | 14.92        | 15.46        | 16.11        | <b>16.47</b> |
| 5C1370          | 16.40                 | 13.63                                    | 14.34        | 14.69        | 15.13        | 15.56        | 15.85        |
| 5C1390          | 16.00                 | 13.61                                    | 14.32        | 14.67        | 15.09        | 15.48        | 15.70        |
| 5C150           | 17.00                 | 13.99                                    | 14.92        | 15.26        | 15.66        | 16.06        | 16.31        |
| 5C1550          | 15.70                 | 13.69                                    | 14.38        | 14.72        | 15.14        | 15.55        | <b>15.72</b> |
| 5C1590          | 15.50                 | 13.68                                    | 14.37        | 14.71        | 15.12        | <b>15.51</b> | <b>15.72</b> |
| 5C160           | 17.50                 | 16.66                                    | <b>17.53</b> | <b>17.56</b> | <b>17.60</b> | <b>17.66</b> | <b>17.72</b> |
| 5C1670          | 16.00                 | 13.93                                    | 14.71        | 15.22        | 15.79        | <b>16.19</b> | <b>16.55</b> |
| 5C1680          | 16.00                 | 13.92                                    | 14.68        | 15.15        | 15.68        | <b>16.10</b> | <b>16.45</b> |
| 5C1690          | 15.84                 | 13.93                                    | 14.68        | 15.15        | 15.68        | <b>16.10</b> | <b>16.45</b> |
| 5C170           | 17.50                 | 13.86                                    | 14.71        | 15.07        | 15.48        | 15.89        | 16.14        |
| 5C1720          | 15.61                 | 13.92                                    | 14.66        | 15.12        | <b>15.63</b> | <b>16.06</b> | <b>16.40</b> |
| 5C1730          | 15.50                 | 13.92                                    | 14.66        | 15.11        | <b>15.62</b> | <b>16.05</b> | <b>16.39</b> |

**Table C-2. Future Conditions Peak Water Surface Elevations (Scenario 3)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |              |              |              |              |              |
|-----------------|-----------------------|--|--------------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft)    | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 5C180           | 18.00                 | 17.00                                    | <b>18.00</b> | <b>18.01</b> | <b>18.02</b> | <b>18.03</b> | <b>18.05</b> |
| 5C1850          | 16.00                 | 13.89                                    | 14.50        | 14.81        | 15.20        | 15.56        | 15.79        |
| 5C1880          | 15.68                 | 14.75                                    | 15.59        | <b>15.68</b> | <b>15.69</b> | <b>15.70</b> | <b>15.71</b> |
| 5C190           | 19.00                 | 17.37                                    | <b>19.00</b> | <b>19.01</b> | <b>19.03</b> | <b>19.05</b> | <b>19.06</b> |
| 5C340           | 17.50                 | 12.29                                    | 12.99        | 13.30        | 13.61        | 13.86        | 14.05        |
| 5C350           | 17.50                 | 12.97                                    | 13.66        | 13.97        | 14.28        | 14.52        | 14.65        |
| 5C370           | 16.74                 | 12.01                                    | 12.70        | 13.00        | 13.30        | 13.55        | 13.80        |
| 5C625           | 16.03                 | 14.03                                    | 14.67        | 15.01        | 15.33        | 15.62        | 15.81        |
| 5C635           | 16.03                 | 13.92                                    | 14.51        | 14.82        | 15.21        | 15.57        | 15.79        |
| 5C645           | 17.00                 | 13.63                                    | 14.34        | 14.68        | 15.10        | 15.49        | 15.71        |
| 5C655           | 17.00                 | 13.79                                    | 14.69        | 15.05        | 15.47        | 15.88        | 16.14        |
| 5C685           | 17.01                 | 11.02                                    | 11.68        | 11.97        | 12.25        | 12.50        | 12.73        |
| 5C715           | 16.00                 | 13.90                                    | 14.51        | 14.83        | 15.23        | 15.69        | <b>16.00</b> |
| 5C755           | 16.70                 | 16.42                                    | <b>16.72</b> | <b>16.77</b> | <b>16.83</b> | <b>16.90</b> | <b>16.97</b> |
| 5C785           | 16.63                 | 16.42                                    | <b>16.72</b> | <b>16.77</b> | <b>16.83</b> | <b>16.90</b> | <b>16.97</b> |
| 5C810           | 17.30                 | 14.98                                    | 15.89        | 16.68        | <b>17.30</b> | <b>17.32</b> | <b>17.34</b> |
| 5C815           | 18.50                 | 13.50                                    | 14.23        | 14.60        | 15.03        | 15.44        | 15.66        |
| 5C910           | 16.20                 | 13.85                                    | 14.69        | 15.18        | 15.80        | 16.18        | <b>16.22</b> |
| 5C960           | 16.19                 | 13.72                                    | 14.48        | 14.92        | 15.44        | 15.89        | 16.10        |
| 5C980           | 16.30                 | 13.72                                    | 14.49        | 14.94        | 15.46        | 15.92        | 16.18        |
| 5D1591          | 15.50                 | 13.68                                    | 14.37        | 14.71        | 15.12        | <b>15.51</b> | <b>15.72</b> |
| 5D624           | 16.03                 | <b>16.04</b>                             | <b>16.22</b> | <b>16.33</b> | <b>16.46</b> | <b>16.62</b> | <b>16.79</b> |
| 6C135           | 15.80                 | 14.87                                    | <b>15.81</b> | <b>15.86</b> | <b>15.94</b> | <b>16.03</b> | <b>16.12</b> |
| 6C195           | 14.50                 | 10.93                                    | 11.03        | 11.64        | 12.20        | 12.73        | 13.18        |
| 6C215           | 16.00                 | 13.34                                    | 14.55        | 14.74        | 14.76        | 14.96        | 15.18        |
| 6C225           | 16.50                 | 13.40                                    | 14.58        | 14.76        | 14.83        | 15.00        | 15.22        |
| 6C235           | 16.30                 | 13.88                                    | 15.48        | 15.92        | 16.24        | <b>16.31</b> | <b>16.33</b> |
| 6C255           | 15.50                 | 9.67                                     | 10.67        | 11.58        | 12.14        | 12.67        | 13.11        |
| 6C265           | 14.50                 | 9.55                                     | 10.58        | 11.55        | 12.12        | 12.66        | 13.11        |
| 6C315           | 14.00                 | 9.55                                     | 10.57        | 11.55        | 12.12        | 12.66        | 13.10        |
| 6C3160          | 16.66                 | 15.52                                    | 15.79        | 15.95        | 16.15        | 16.39        | 16.63        |
| 6C3200          | 16.50                 | 15.40                                    | 15.70        | 15.84        | 16.01        | 16.23        | 16.41        |
| 6C3210          | 16.34                 | 15.38                                    | 15.65        | 15.79        | 15.96        | 16.18        | <b>16.37</b> |
| 6C3220          | 17.00                 | 15.48                                    | 15.85        | 16.00        | 16.17        | 16.38        | 16.56        |
| 6C3230          | 17.38                 | 15.37                                    | 15.65        | 15.78        | 15.95        | 16.17        | 16.36        |
| 6C325           | 16.32                 | 10.52                                    | 10.86        | 11.78        | 12.32        | 12.82        | 13.24        |
| 6C3250          | 17.00                 | 15.37                                    | 15.63        | 15.77        | 15.92        | 16.12        | 16.24        |
| 6C335           | 15.50                 | <b>15.50</b>                             | <b>15.57</b> | <b>15.61</b> | <b>15.67</b> | <b>15.74</b> | <b>15.80</b> |
| 6C3490          | 16.38                 | 15.74                                    | <b>16.39</b> | <b>16.40</b> | <b>16.41</b> | <b>16.43</b> | <b>16.44</b> |
| 6C3580          | 16.11                 | 15.49                                    | <b>16.11</b> | <b>16.11</b> | <b>16.11</b> | <b>16.11</b> | <b>16.12</b> |

**Table C-2. Future Conditions Peak Water Surface Elevations (Scenario 3)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |              |              |              |              |              |
|-----------------|-----------------------|--|--------------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft)    | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 6C365           | 16.00                 | 15.67                                    | <b>16.00</b> | <b>16.01</b> | <b>16.04</b> | <b>16.07</b> | <b>16.10</b> |
| 6C3660          | 15.11                 | 14.20                                    | 14.58        | 14.70        | 14.86        | <b>15.11</b> | <b>15.12</b> |
| 6C3670          | 15.00                 | 13.94                                    | 14.19        | 14.35        | 14.54        | 14.87        | <b>15.01</b> |
| 6C3680          | 14.50                 | 12.53                                    | 13.10        | 13.37        | 13.65        | 14.07        | 14.49        |
| 6C3690          | 14.84                 | 12.26                                    | 12.51        | 12.60        | 12.55        | 13.04        | 13.62        |
| 6C3700          | 15.00                 | 10.63                                    | 10.90        | 11.58        | 12.13        | 12.67        | 13.11        |
| 6C3710          | 14.26                 | <b>14.28</b>                             | <b>14.34</b> | <b>14.39</b> | <b>14.46</b> | <b>14.54</b> | <b>14.61</b> |
| 6C3720          | 15.16                 | 14.31                                    | 14.45        | 14.49        | 14.51        | 14.56        | 14.60        |
| 6C3730          | 15.23                 | 14.32                                    | 14.50        | 14.56        | 14.59        | 14.64        | 14.70        |
| 6C3750          | 14.50                 | 14.29                                    | 14.49        | <b>14.52</b> | <b>14.53</b> | <b>14.55</b> | <b>14.57</b> |
| 6C3830          | 18.58                 | 15.63                                    | 16.17        | 16.53        | 16.97        | 17.70        | 17.95        |
| 6C3890          | 17.00                 | 15.32                                    | 15.87        | 16.28        | 16.61        | <b>17.00</b> | <b>17.00</b> |
| 6C3920          | 16.00                 | 15.22                                    | 15.61        | <b>16.00</b> | <b>16.05</b> | <b>16.09</b> | <b>16.15</b> |
| 6C4060          | 15.73                 | <b>15.76</b>                             | <b>16.07</b> | <b>16.28</b> | <b>16.53</b> | <b>16.84</b> | <b>17.15</b> |
| 6C4110          | 11.25                 | 5.07                                     | 5.73         | 6.05         | 6.27         | 6.48         | 6.66         |
| 6C4160          | 8.00                  | 4.42                                     | 4.70         | 4.85         | 4.98         | 5.11         | 5.22         |
| 6C4200          | 12.03                 | 6.10                                     | 7.49         | 8.04         | 8.63         | 9.32         | 9.89         |
| 6C4210A         | 12.50                 | 6.40                                     | 7.72         | 8.38         | 8.78         | 9.15         | 9.46         |
| 6C4220          | 13.50                 | 7.51                                     | 9.22         | 10.14        | 10.70        | 11.23        | 11.66        |
| 6C4270          | 14.00                 | 8.28                                     | 10.00        | 11.05        | 11.65        | 12.21        | 12.66        |
| 6C445           | 15.00                 | <b>15.36</b>                             | <b>15.62</b> | <b>15.74</b> | <b>15.88</b> | <b>16.06</b> | <b>16.16</b> |
| 6C455           | 13.50                 | 9.21                                     | 10.30        | 11.20        | 11.75        | 12.28        | 12.72        |
| 6C465           | 14.50                 | 9.50                                     | 10.56        | 11.54        | 12.11        | 12.66        | 13.10        |
| 6C505           | 16.00                 | 15.50                                    | 15.81        | 15.87        | 15.94        | <b>16.00</b> | <b>16.07</b> |
| 6C5070          | 19.00                 | 15.37                                    | 15.88        | 16.26        | 16.78        | 17.26        | 17.60        |
| 6C5150          | 19.00                 | 15.44                                    | 15.99        | 16.37        | 16.92        | 17.44        | 17.81        |
| 6C5160          | 24.00                 | 16.18                                    | 17.99        | 19.26        | 20.92        | 23.10        | <b>24.01</b> |
| 6C5170          | 19.00                 | 15.41                                    | 15.93        | 16.29        | 16.81        | 17.28        | 17.61        |
| 6C575           | 16.50                 | 13.81                                    | 15.34        | 15.79        | 15.98        | 16.03        | 16.08        |
| 6C615           | 15.00                 | 14.44                                    | 14.68        | 14.79        | 14.89        | <b>15.00</b> | <b>15.00</b> |
| 6C8000          | 19.24                 | 17.76                                    | <b>19.36</b> | <b>19.71</b> | <b>19.99</b> | <b>20.29</b> | <b>20.58</b> |
| 6C8020          | 19.70                 | 17.72                                    | 19.30        | 19.64        | <b>19.91</b> | <b>20.20</b> | <b>20.48</b> |
| 6C9020          | 14.58                 | 12.34                                    | 12.45        | 12.46        | 12.46        | 12.83        | 13.22        |
| 6C9080          | 14.50                 | 14.29                                    | <b>14.50</b> | <b>14.51</b> | <b>14.52</b> | <b>14.54</b> | <b>14.56</b> |
| 6C9120          | 16.87                 | 15.32                                    | 16.30        | 16.78        | <b>16.87</b> | <b>16.88</b> | <b>16.89</b> |
| 6C9160          | 18.28                 | 14.93                                    | 15.96        | 16.08        | 16.17        | 16.25        | 16.32        |
| 6C9200          | 17.16                 | 15.04                                    | 16.17        | 16.49        | 16.58        | 16.61        | 16.64        |
| 6C945           | 17.30                 | 14.88                                    | 15.47        | 15.97        | 16.10        | 16.14        | 16.19        |
| 6C955           | 19.00                 | 15.10                                    | 15.56        | 16.02        | 16.22        | 16.31        | 16.38        |
| 6C975           | 16.13                 | 13.06                                    | 13.07        | 13.29        | 13.57        | 13.99        | 14.24        |



**Table C-2. Future Conditions Peak Water Surface Elevations (Scenario 3)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |              |              |              |              |              |
|-----------------|-----------------------|--|--------------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft)    | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 6C985           | 15.11                 | 14.46                                    | 14.76        | 14.89        | 15.01        | <b>15.12</b> | <b>15.16</b> |
| 6D416           | 16.00                 | 15.71                                    | <b>16.01</b> | <b>16.04</b> | <b>16.08</b> | <b>16.12</b> | <b>16.17</b> |
| 6D4161          | 10.00                 | 4.21                                     | 4.48         | 4.62         | 4.75         | 4.89         | 5.01         |
| 6D946           | 16.00                 | 13.92                                    | 15.39        | 15.89        | <b>16.01</b> | <b>16.05</b> | <b>16.11</b> |
| 7C105           | 7.00                  | 3.88                                     | 4.04         | 4.11         | 4.20         | 4.30         | 4.39         |
| 7C135           | 6.00                  | 3.98                                     | 4.19         | 4.30         | 4.42         | 4.55         | 4.67         |
| 7C225           | 7.00                  | 4.27                                     | 4.81         | 5.09         | 5.52         | 5.96         | 6.19         |
| 7C235           | 11.15                 | 8.20                                     | 8.79         | 9.76         | 11.01        | <b>11.17</b> | <b>11.18</b> |
| 7C295           | 5.41                  | 4.09                                     | 4.49         | 4.74         | 5.13         | <b>5.45</b>  | <b>5.61</b>  |
| 7C315           | 5.59                  | 4.11                                     | 4.54         | 4.81         | 5.24         | <b>5.62</b>  | <b>5.76</b>  |
| 7C355           | 10.00                 | 3.88                                     | 4.03         | 4.10         | 4.19         | 4.29         | 4.38         |
| 7C365           | 10.00                 | 3.89                                     | 4.06         | 4.17         | 4.33         | 4.53         | 4.73         |
| 7D356           | 6.00                  | 3.88                                     | 4.03         | 4.10         | 4.19         | 4.29         | 4.38         |
| 7D357           | 6.00                  | 3.88                                     | 4.02         | 4.10         | 4.19         | 4.28         | 4.37         |
| 7D358           | 7.00                  | 3.88                                     | 4.02         | 4.10         | 4.19         | 4.28         | 4.37         |
| 7D359           | 6.00                  | 3.88                                     | 4.02         | 4.10         | 4.19         | 4.28         | 4.38         |
| 7D360           | 6.00                  | 3.88                                     | 4.03         | 4.10         | 4.19         | 4.28         | 4.38         |
| 7D370           | 6.00                  | 3.88                                     | 4.02         | 4.09         | 4.19         | 4.28         | 4.37         |
| 7D371           | 5.00                  | 3.87                                     | 4.02         | 4.09         | 4.19         | 4.28         | 4.37         |
| 7D372           | 6.00                  | 3.87                                     | 4.01         | 4.08         | 4.17         | 4.27         | 4.36         |
| 7F226           | 9.95                  | 4.56                                     | 5.42         | 5.81         | 6.34         | 6.85         | 7.22         |
| 7F227           | 9.47                  | 4.93                                     | 6.32         | 6.78         | 7.51         | 7.96         | 8.25         |
| 7F228           | 8.57                  | 4.59                                     | 5.48         | 5.95         | 6.54         | 7.20         | 7.71         |
| 7F229           | 8.75                  | 4.60                                     | 5.49         | 5.95         | 6.55         | 7.21         | 7.72         |
| 7F230           | 12.44                 | 4.63                                     | 5.51         | 5.97         | 6.56         | 7.22         | 7.75         |
| 8C120           | 10.50                 | <b>10.51</b>                             | <b>10.55</b> | <b>10.58</b> | <b>10.61</b> | <b>10.65</b> | <b>10.69</b> |
| 8C125           | 8.00                  | 5.15                                     | 6.55         | 7.43         | <b>8.01</b>  | <b>8.02</b>  | <b>8.03</b>  |
| 8C155           | 6.00                  | 4.01                                     | 4.25         | 4.37         | 4.50         | 4.64         | 4.77         |
| 8C160           | 10.00                 | <b>10.02</b>                             | <b>10.13</b> | <b>10.19</b> | <b>10.26</b> | <b>10.35</b> | <b>10.43</b> |
| 8C180           | 9.50                  | <b>9.51</b>                              | <b>9.59</b>  | <b>9.65</b>  | <b>9.73</b>  | <b>9.83</b>  | <b>9.93</b>  |
| 8C190           | 10.20                 | 9.55                                     | 9.61         | 9.67         | 9.75         | 9.85         | 9.95         |
| 8C210           | 8.79                  | 7.85                                     | 8.63         | <b>8.81</b>  | <b>8.98</b>  | <b>9.20</b>  | <b>9.36</b>  |
| 8C2230          | 10.10                 | <b>10.10</b>                             | <b>10.16</b> | <b>10.20</b> | <b>10.25</b> | <b>10.32</b> | <b>10.39</b> |
| 8C2240          | 11.00                 | 10.23                                    | 10.42        | 10.58        | 10.79        | <b>11.00</b> | <b>11.01</b> |
| 8C230           | 8.59                  | 7.73                                     | 8.53         | <b>8.72</b>  | <b>8.90</b>  | <b>9.13</b>  | <b>9.30</b>  |
| 8C2340          | 13.02                 | 8.89                                     | 9.37         | 9.44         | 9.57         | 9.63         | 9.66         |
| 8C2360          | 11.77                 | 10.41                                    | <b>11.78</b> | <b>11.79</b> | <b>11.81</b> | <b>11.83</b> | <b>11.85</b> |
| 8C2390          | 6.00                  | 4.02                                     | 4.25         | 4.38         | 4.51         | 4.65         | 4.78         |
| 8C2430          | 4.10                  | 4.07                                     | <b>4.32</b>  | <b>4.46</b>  | <b>4.61</b>  | <b>4.76</b>  | <b>4.90</b>  |
| 8C2470          | 5.50                  | 4.08                                     | 4.33         | 4.47         | 4.63         | 4.78         | 4.93         |

**Table C-2. Future Conditions Peak Water Surface Elevations (Scenario 3)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |              |              |              |              |              |
|-----------------|-----------------------|--|--------------|--------------|--------------|--------------|--------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft)    | 10-Yr (ft)   | 25-Yr (ft)   | 50-Yr (ft)   | 100-Yr (ft)  |
| 8C2530          | 11.90                 | 7.49                                     | 10.20        | <b>11.90</b> | <b>11.90</b> | <b>11.91</b> | <b>11.92</b> |
| 8C270           | 8.02                  | 6.12                                     | 6.94         | 7.28         | 7.62         | 7.99         | <b>8.03</b>  |
| 8C330           | 8.33                  | 5.32                                     | 5.96         | 6.25         | 6.55         | 6.88         | 6.97         |
| 8C355           | 5.25                  | 4.24                                     | 4.54         | 4.79         | <b>5.32</b>  | <b>5.54</b>  | <b>5.70</b>  |
| 8C425           | 7.00                  | 4.24                                     | 4.52         | 4.67         | 4.87         | 5.04         | 5.19         |
| 8C435           | 7.00                  | 4.21                                     | 4.48         | 4.63         | 4.83         | 4.99         | 5.15         |
| 8C445           | 4.84                  | 4.20                                     | 4.47         | 4.62         | 4.81         | <b>4.98</b>  | <b>5.13</b>  |
| 8C455           | 4.86                  | 4.20                                     | 4.47         | 4.62         | 4.82         | <b>4.98</b>  | <b>5.14</b>  |
| 8C535           | 6.28                  | 4.96                                     | 5.49         | 5.75         | 6.01         | <b>6.28</b>  | <b>6.30</b>  |
| 8C539           | 7.12                  | 4.26                                     | 4.55         | 4.70         | 4.90         | 5.07         | 5.23         |
| 8C545           | 7.00                  | 5.26                                     | 5.91         | 6.21         | 6.51         | 6.85         | 6.95         |
| 8C615           | 6.66                  | 4.22                                     | 4.54         | 4.75         | 5.00         | 5.30         | 5.58         |
| 8C705           | 4.48                  | 4.07                                     | 4.33         | 4.47         | <b>4.65</b>  | <b>4.79</b>  | <b>4.93</b>  |
| 8C725           | 10.45                 | 4.58                                     | 4.60         | 4.94         | 5.68         | 5.86         | 5.98         |
| 8C745           | 6.00                  | 4.04                                     | 4.32         | 4.47         | 4.63         | 4.77         | 4.90         |
| 8C795           | 10.00                 | <b>10.03</b>                             | <b>10.13</b> | <b>10.19</b> | <b>10.26</b> | <b>10.35</b> | <b>10.43</b> |
| 8C805           | 16.00                 | 12.66                                    | 13.24        | 13.73        | 14.65        | 15.41        | 15.92        |
| 8C815           | 16.00                 | 13.33                                    | 14.42        | 15.73        | <b>16.02</b> | <b>16.07</b> | <b>16.13</b> |
| 8F536           | 6.80                  | 4.96                                     | 5.50         | 5.75         | 6.01         | 6.29         | 6.31         |
| 8F537           | 8.20                  | 4.82                                     | 5.30         | 5.54         | 5.78         | 6.04         | 6.09         |
| 8F538           | 7.00                  | 4.27                                     | 4.56         | 4.72         | 4.92         | 5.09         | 5.24         |
| 9C240           | 11.55                 | 9.02                                     | 9.59         | 10.05        | 11.11        | <b>11.55</b> | <b>11.56</b> |
| 9C250           | 11.20                 | 8.62                                     | 9.34         | 9.84         | 10.81        | 11.16        | 11.17        |
| 9C250B          | 13.08                 | 9.90                                     | 10.53        | 11.12        | 12.92        | <b>13.11</b> | <b>13.14</b> |
| 9C280           | 9.77                  | 8.91                                     | <b>9.78</b>  | <b>9.78</b>  | <b>9.79</b>  | <b>9.81</b>  | <b>9.82</b>  |
| 9C310           | 10.00                 | 4.09                                     | 4.45         | 4.63         | 4.85         | 5.06         | 5.23         |
| 9C360           | 6.26                  | 3.96                                     | 4.16         | 4.26         | 4.38         | 4.55         | 4.69         |
| 9C515           | 8.00                  | <b>8.00</b>                              | <b>8.05</b>  | <b>8.08</b>  | <b>8.12</b>  | <b>8.17</b>  | <b>8.22</b>  |
| 9C525           | 8.00                  | 5.61                                     | 5.63         | 5.66         | 5.67         | 5.68         | 5.68         |
| 9C535           | 6.00                  | 4.04                                     | 4.38         | 4.56         | 4.77         | 4.97         | 5.15         |
| 9C545           | 6.00                  | 3.94                                     | 4.11         | 4.21         | 4.32         | 4.45         | 4.57         |
| 9C605           | 9.64                  | 7.64                                     | 8.19         | 8.38         | 8.57         | 8.67         | 8.70         |
| 9C615           | 12.00                 | 7.59                                     | 8.12         | 8.30         | 8.47         | 8.56         | 8.60         |
| 9D311           | 7.00                  | 4.06                                     | 4.43         | 4.61         | 4.84         | 5.05         | 5.23         |
| 9D526           | 8.00                  | 4.14                                     | 4.24         | 4.31         | 4.39         | 4.50         | 4.60         |
| 9D527           | 8.00                  | 3.94                                     | 4.11         | 4.20         | 4.30         | 4.43         | 4.55         |
| 9D528           | 8.00                  | 3.93                                     | 4.10         | 4.20         | 4.30         | 4.43         | 4.55         |
| 9D546           | 4.00                  | 3.94                                     | <b>4.11</b>  | <b>4.20</b>  | <b>4.31</b>  | <b>4.44</b>  | <b>4.57</b>  |
| 9D547           | 4.00                  | 3.94                                     | <b>4.11</b>  | <b>4.20</b>  | <b>4.31</b>  | <b>4.44</b>  | <b>4.56</b>  |
| 9D548           | 4.00                  | 3.94                                     | <b>4.11</b>  | <b>4.20</b>  | <b>4.31</b>  | <b>4.44</b>  | <b>4.56</b>  |

**Table C-2. Future Conditions Peak Water Surface Elevations (Scenario 3)**

Vertical Datum: NAVD 1988

This modeling was completed using SWMM Version 5, with Nodal Ponding enabled.

**Blue Shaded Numbers** indicate locations where the maximum computed water surface meets or exceeds the ground elevation for that node. Blue shaded numbers are 'approximate' (as are other maximum computed elevations nearby).

| Junction Number | Ground Elevation (ft) | Maximum Computed Water Surface Elevation |             |             |             |             |             |
|-----------------|-----------------------|--|-------------|-------------|-------------|-------------|-------------|
|                 |                       | 2-Yr (ft)                                | 5-Yr (ft)   | 10-Yr (ft)  | 25-Yr (ft)  | 50-Yr (ft)  | 100-Yr (ft) |
| 9D586           | 8.00                  | 3.93                                     | 4.11        | 4.20        | 4.30        | 4.43        | 4.55        |
| 9D587           | 8.00                  | 3.93                                     | 4.11        | 4.20        | 4.30        | 4.43        | 4.55        |
| 9D588           | 8.00                  | 3.93                                     | 4.10        | 4.20        | 4.30        | 4.43        | 4.54        |
| 9D589           | 8.00                  | 3.87                                     | 4.02        | 4.10        | 4.18        | 4.28        | 4.38        |
| 9D590           | 4.00                  | 3.87                                     | <b>4.02</b> | <b>4.09</b> | <b>4.18</b> | <b>4.28</b> | <b>4.37</b> |
| 9D591           | 4.00                  | 3.87                                     | <b>4.02</b> | <b>4.09</b> | <b>4.17</b> | <b>4.27</b> | <b>4.37</b> |
| 9D592           | 6.00                  | 3.87                                     | 4.01        | 4.08        | 4.17        | 4.27        | 4.36        |
| 9D600           | 5.00                  | 3.87                                     | 4.01        | 4.08        | 4.17        | 4.27        | 4.36        |
| 9D616           | 8.00                  | 5.39                                     | 6.01        | 6.26        | 6.50        | 6.64        | 6.74        |
| 9D700           | 4.00                  | 3.94                                     | <b>4.11</b> | <b>4.21</b> | <b>4.32</b> | <b>4.45</b> | <b>4.57</b> |
| 9D705           | 6.00                  | 3.95                                     | 4.13        | 4.23        | 4.34        | 4.47        | 4.59        |
| 9D710           | 4.70                  | 4.11                                     | 4.68        | <b>4.93</b> | <b>5.32</b> | <b>5.83</b> | <b>6.35</b> |