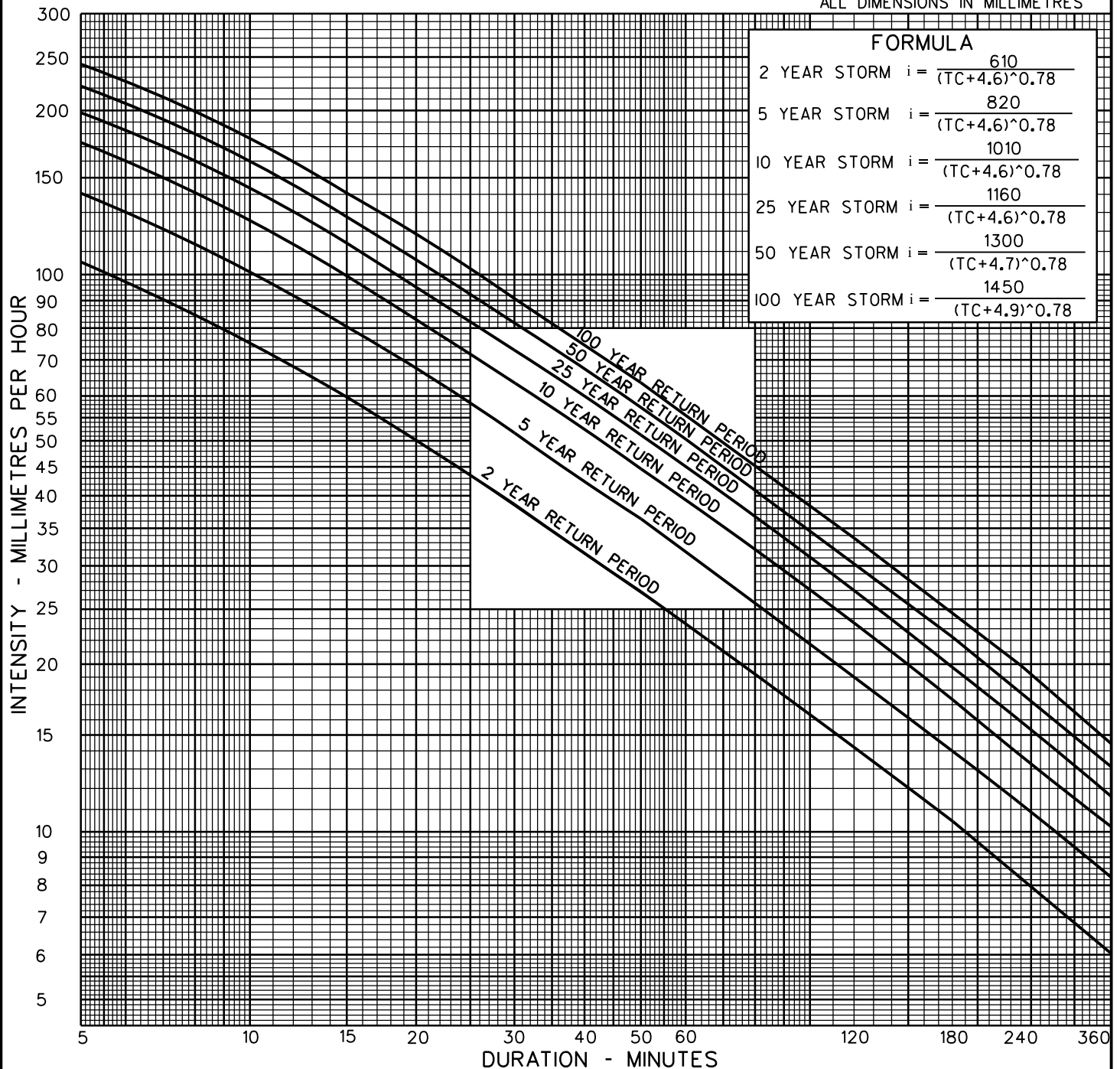


# APPENDIX

## B

### PCSWMM Modelling Data



## NOTES

- ALL CALCULATIONS TO BE DONE ASSUMING FULL DEVELOPMENT AS SHOWN ON CITY OF MISSISSAUGA ZONING MAPS.
- TO BE USED WITH RATIONAL FORMULA:  

$$Q = \frac{CIA}{360}$$

Q=QUANTITY OF RUNOFF (M<sup>3</sup>/S)  
 C=RUNOFF COEFFICIENT  
 A=AREA (ha)  
 I=RAINFALL INTENSITY (mm/hr)

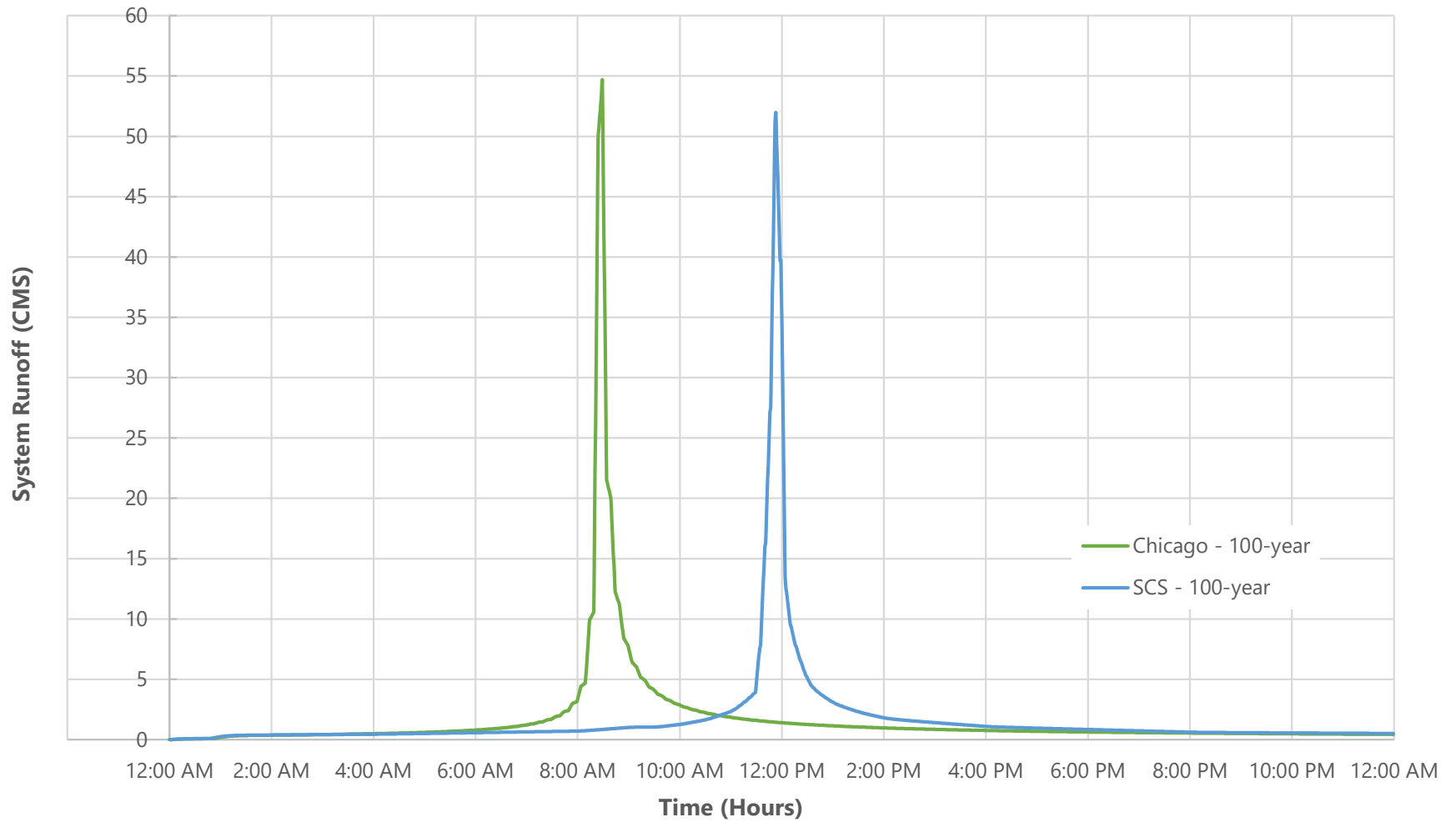


**MISSISSAUGA**

## STANDARD INTENSITY-DURATION-FREQUENCY RAINFALL CURVES

|           |            |              |          |
|-----------|------------|--------------|----------|
| EFF. DATE | 2002-01-01 | SCALE        | N.T.S    |
| REV.      | 2016-07-22 | STANDARD No. | 2111.010 |

### Design Storm Distribution Sensitivity Test - System Runoff Results (100-year)



| PCSWMM Model Components - Existing Conditions Subcatchment Details |                 |           |           |                 |           |                |             |
|--------------------------------------------------------------------|-----------------|-----------|-----------|-----------------|-----------|----------------|-------------|
| Network                                                            | Subcatchment ID | Area (ha) | Width (m) | Flow Length (m) | Slope (%) | Impervious (%) | Outlet Node |
| CR_E1                                                              | S1_CR-E1        | 0.28      | 74.3      | 37.1            | 5.3       | 83.7           | 21152-S     |
| CR_E1                                                              | S2_CR-E1        | 0.09      | 43.1      | 21.6            | 0.7       | 91.4           | 21151-S     |
| CR_E1                                                              | S3_CR-E1        | 0.30      | 72.3      | 42.0            | 1.3       | 92.4           | 21149-S     |
| CR_E1                                                              | S4_CR-E1        | 0.63      | 111.9     | 56.0            | 1.7       | 57.0           | 21150-S     |
| CR_E2                                                              | S1_CR-E2        | 0.38      | 86.7      | 43.3            | 1.5       | 57.1           | 20613-S     |
| CR_E2                                                              | S10_CR-E2       | 0.35      | 61.0      | 58.0            | 1.2       | 54.4           | 20611-S     |
| CR_E2                                                              | S100_CR-E2      | 0.28      | 67.9      | 41.2            | 1.8       | 78.0           | 21127-S     |
| CR_E2                                                              | S101_CR-E2      | 0.77      | 124.0     | 61.9            | 1.5       | 89.9           | 29337       |
| CR_E2                                                              | S102_CR-E2      | 0.29      | 76.0      | 38.1            | 1.3       | 64.5           | 29337-S     |
| CR_E2                                                              | S103_CR-E2      | 0.18      | 59.5      | 30.7            | 1.6       | 66.4           | 29336-S     |
| CR_E2                                                              | S104_CR-E2      | 0.20      | 45.9      | 43.9            | 1.5       | 79.3           | 29399-S     |
| CR_E2                                                              | S105_CR-E2      | 0.07      | 37.2      | 20.0            | 1.6       | 73.2           | 29397-S     |
| CR_E2                                                              | S106_CR-E2      | 0.09      | 41.6      | 20.7            | 1.7       | 70.0           | 29395-S     |
| CR_E2                                                              | S107_CR-E2      | 0.22      | 66.1      | 33.0            | 2.1       | 75.0           | 29392-S     |
| CR_E2                                                              | S108_CR-E2      | 0.16      | 57.4      | 28.6            | 0.6       | 67.2           | 29391-S     |
| CR_E2                                                              | S109_CR-E2      | 0.47      | 97.1      | 48.5            | 1.1       | 81.2           | 29400-S     |
| CR_E2                                                              | S11_CR-E2       | 0.09      | 42.7      | 21.3            | 1.4       | 59.7           | 20611-S     |
| CR_E2                                                              | S110_CR-E2      | 0.05      | 23.9      | 20.0            | 1.8       | 70.0           | 29400-S     |
| CR_E2                                                              | S111_CR-E2      | 0.14      | 53.1      | 26.6            | 0.9       | 78.2           | 29389-S     |
| CR_E2                                                              | S112_CR-E2      | 0.30      | 76.8      | 38.4            | 1.3       | 71.3           | 29388-S     |
| CR_E2                                                              | S113_CR-E2      | 0.46      | 96.3      | 48.2            | 2.1       | 83.4           | 21143-S     |
| CR_E2                                                              | S114_CR-E2      | 0.16      | 61.6      | 26.2            | 0.5       | 70.4           | 21143-S     |
| CR_E2                                                              | S115_CR-E2      | 0.37      | 87.0      | 42.3            | 1.1       | 81.0           | 21159-S     |
| CR_E2                                                              | S116_CR-E2      | 0.33      | 80.5      | 40.7            | 1.3       | 80.2           | 21159-S     |
| CR_E2                                                              | S117_CR-E2      | 0.28      | 75.3      | 37.6            | 2.2       | 68.9           | 29335-S     |
| CR_E2                                                              | S118_CR-E2      | 0.11      | 35.3      | 30.8            | 0.9       | 63.5           | 29333-S     |
| CR_E2                                                              | S119_CR-E2      | 0.13      | 50.8      | 25.3            | 1.0       | 64.7           | 29332-S     |
| CR_E2                                                              | S12_CR-E2       | 0.23      | 68.2      | 34.0            | 1.1       | 55.3           | 20610-S     |
| CR_E2                                                              | S120_CR-E2      | 0.26      | 72.0      | 35.9            | 1.6       | 65.1           | 29334-S     |
| CR_E2                                                              | S121_CR-E2      | 0.15      | 54.9      | 27.4            | 1.4       | 68.0           | 29408-S     |
| CR_E2                                                              | S122_CR-E2      | 0.12      | 48.3      | 24.2            | 0.5       | 68.3           | 29409-S     |
| CR_E2                                                              | S123_CR-E2      | 0.44      | 93.6      | 46.7            | 2.7       | 67.7           | 29409-S     |
| CR_E2                                                              | S124_CR-E2      | 0.33      | 60.3      | 55.4            | 1.6       | 76.3           | 29394-S     |
| CR_E2                                                              | S125_CR-E2      | 0.19      | 61.0      | 30.5            | 0.5       | 67.1           | 29393-S     |
| CR_E2                                                              | S126_CR-E2      | 0.15      | 53.9      | 27.0            | 0.8       | 68.7           | 21141-S     |
| CR_E2                                                              | S127_CR-E2      | 0.67      | 116.1     | 58.1            | 1.8       | 65.6           | 29396-S     |
| CR_E2                                                              | S128_CR-E2      | 0.65      | 114.1     | 57.0            | 1.6       | 66.3           | 29410-S     |
| CR_E2                                                              | S129_CR-E2      | 0.51      | 100.8     | 50.4            | 3.6       | 84.7           | 29320-S     |
| CR_E2                                                              | S13_CR-E2       | 0.57      | 106.6     | 53.4            | 2.1       | 51.9           | J65         |
| CR_E2                                                              | S130_CR-E2      | 0.39      | 88.7      | 44.4            | 2.3       | 66.6           | 29320-S     |
| CR_E2                                                              | S131_CR-E2      | 0.09      | 42.0      | 21.0            | 0.6       | 66.4           | 21156-S     |
| CR_E2                                                              | S132_CR-E2      | 0.24      | 69.1      | 34.6            | 2.1       | 66.7           | 29411-S     |
| CR_E2                                                              | S133_CR-E2      | 0.05      | 25.9      | 20.0            | 0.6       | 70.0           | 29413-S     |
| CR_E2                                                              | S134_CR-E2      | 0.17      | 58.1      | 29.1            | 1.3       | 68.5           | 29412-S     |
| CR_E2                                                              | S135_CR-E2      | 0.72      | 233.5     | 30.8            | 1.8       | 67.7           | 29321-S     |
| CR_E2                                                              | S136_CR-E2      | 0.50      | 100.2     | 50.0            | 0.9       | 75.8           | 29406-S     |
| CR_E2                                                              | S137_CR-E2      | 0.19      | 62.0      | 30.9            | 2.0       | 80.7           | 29405-S     |
| CR_E2                                                              | S138_CR-E2      | 0.68      | 94.1      | 71.8            | 2.0       | 80.9           | 21142-S     |
| CR_E2                                                              | S139_CR-E2      | 0.48      | 98.0      | 49.1            | 6.9       | 66.4           | 29419-S     |
| CR_E2                                                              | S14_CR-E2       | 0.60      | 109.7     | 54.9            | 0.6       | 52.0           | J50         |
| CR_E2                                                              | S140_CR-E2      | 0.15      | 47.3      | 32.1            | 3.3       | 67.5           | 29401-S     |
| CR_E2                                                              | S141_CR-E2      | 0.26      | 72.2      | 36.2            | 3.1       | 66.8           | 29398-S     |
| CR_E2                                                              | S142_CR-E2      | 0.30      | 77.2      | 38.7            | 2.1       | 67.4           | 29421-S     |
| CR_E2                                                              | S143_CR-E2      | 0.22      | 71.0      | 31.3            | 2.7       | 66.5           | 29420-S     |
| CR_E2                                                              | S144_CR-E2      | 0.07      | 33.3      | 20.0            | 3.9       | 67.9           | 29422-S     |
| CR_E2                                                              | S145_CR-E2      | 0.10      | 44.1      | 22.1            | 2.9       | 69.2           | 29316-S     |
| CR_E2                                                              | S146_CR-E2      | 0.32      | 77.7      | 41.6            | 3.8       | 66.3           | 29317-S     |
| CR_E2                                                              | S147_CR-E2      | 0.25      | 77.8      | 31.6            | 2.4       | 79.0           | 29418-S     |
| CR_E2                                                              | S148_CR-E2      | 0.18      | 59.5      | 29.7            | 2.7       | 82.5           | 29417-S     |
| CR_E2                                                              | S149_CR-E2      | 0.37      | 85.8      | 42.9            | 1.0       | 79.4           | 21144-S     |
| CR_E2                                                              | S15_CR-E2       | 0.08      | 40.3      | 20.1            | 2.5       | 57.1           | 2001630-S   |
| CR_E2                                                              | S150_CR-E2      | 0.24      | 68.7      | 34.3            | 1.5       | 77.4           | 21145-S     |
| CR_E2                                                              | S151_CR-E2      | 0.69      | 117.4     | 58.8            | 4.2       | 61.6           | 29331       |
| CR_E2                                                              | S152_CR-E2      | 0.90      | 134.3     | 67.1            | 3.0       | 65.0           | 29403-S     |
| CR_E2                                                              | S153_CR-E2      | 0.32      | 80.5      | 40.3            | 4.6       | 65.0           | 29402-S     |
| CR_E2                                                              | S154_CR-E2      | 0.32      | 79.4      | 39.7            | 10.0      | 65.8           | 29403-S     |
| CR_E2                                                              | S155_CR-E2      | 0.54      | 76.9      | 70.2            | 10.0      | 54.6           | 29402-S     |
| CR_E2                                                              | S156_CR-E2      | 0.19      | 60.9      | 30.5            | 2.8       | 66.4           | 29404-S     |

| PCSWMM Model Components - Existing Conditions Subcatchment Details |                 |           |           |                 |           |                |             |
|--------------------------------------------------------------------|-----------------|-----------|-----------|-----------------|-----------|----------------|-------------|
| Network                                                            | Subcatchment ID | Area (ha) | Width (m) | Flow Length (m) | Slope (%) | Impervious (%) | Outlet Node |
| CR_E2                                                              | S157_CR-E2      | 0.32      | 80.2      | 40.0            | 2.3       | 65.2           | 29422-S     |
| CR_E2                                                              | S158_CR-E2      | 0.49      | 98.3      | 50.0            | 4.4       | 66.3           | 29322-S     |
| CR_E2                                                              | S159_CR-E2      | 0.36      | 85.4      | 42.7            | 2.1       | 72.0           | 29331-S     |
| CR_E2                                                              | S16_CR-E2       | 0.09      | 42.0      | 21.0            | 1.9       | 54.5           | 20642-S     |
| CR_E2                                                              | S160_CR-E2      | 0.18      | 59.8      | 29.9            | 3.1       | 80.4           | 29330-S     |
| CR_E2                                                              | S161_CR-E2      | 0.11      | 47.5      | 23.8            | 4.5       | 74.9           | 29327-S     |
| CR_E2                                                              | S162_CR-E2      | 0.14      | 52.1      | 26.1            | 1.6       | 53.6           | 29326-S     |
| CR_E2                                                              | S163_CR-E2      | 0.19      | 61.6      | 30.7            | 1.2       | 44.9           | 29325-S     |
| CR_E2                                                              | S164_CR-E2      | 0.17      | 59.1      | 29.5            | 1.8       | 60.5           | 29324-S     |
| CR_E2                                                              | S165_CR-E2      | 0.10      | 44.4      | 22.2            | 3.0       | 70.4           | 29323-S     |
| CR_E2                                                              | S166_CR-E2      | 0.49      | 72.4      | 67.4            | 3.1       | 79.2           | 21145-S     |
| CR_E2                                                              | S167_CR-E2      | 0.14      | 52.7      | 26.4            | 1.7       | 76.0           | 21146-S     |
| CR_E2                                                              | S168_CR-E2      | 0.33      | 81.7      | 40.9            | 0.5       | 67.7           | 21147-S     |
| CR_E2                                                              | S169_CR-E2      | 0.12      | 48.3      | 24.1            | 0.9       | 71.6           | 21128-S     |
| CR_E2                                                              | S17_CR-E2       | 0.23      | 89.6      | 25.6            | 1.2       | 70.5           | 20647-S     |
| CR_E2                                                              | S18_CR-E2       | 0.24      | 89.5      | 27.1            | 0.8       | 75.2           | J34         |
| CR_E2                                                              | S19_CR-E2       | 0.43      | 92.9      | 46.5            | 0.5       | 50.7           | 20643-S     |
| CR_E2                                                              | S2_CR-E2        | 0.36      | 84.3      | 42.2            | 0.7       | 49.7           | 20613-S     |
| CR_E2                                                              | S20_CR-E2       | 0.68      | 116.3     | 58.1            | 1.3       | 54.7           | 20644-S     |
| CR_E2                                                              | S21_CR-E2       | 0.36      | 78.1      | 46.7            | 2.4       | 73.0           | 21129-S     |
| CR_E2                                                              | S22_CR-E2       | 0.73      | 120.6     | 60.2            | 0.9       | 52.3           | J49         |
| CR_E2                                                              | S23_CR-E2       | 0.77      | 112.5     | 68.7            | 4.3       | 52.3           | 2001627-S   |
| CR_E2                                                              | S24_CR-E2       | 0.24      | 68.9      | 34.4            | 8.8       | 63.8           | 20629-S     |
| CR_E2                                                              | S25_CR-E2       | 0.36      | 84.3      | 42.1            | 0.5       | 77.3           | 20629-S     |
| CR_E2                                                              | S26_CR-E2       | 0.51      | 100.5     | 50.3            | 0.9       | 72.7           | J35         |
| CR_E2                                                              | S27_CR-E2       | 0.17      | 58.8      | 29.5            | 1.3       | 56.8           | 20626-S     |
| CR_E2                                                              | S28_CR-E2       | 0.16      | 56.4      | 28.1            | 1.3       | 55.4           | 20626-S     |
| CR_E2                                                              | S29_CR-E2       | 0.79      | 91.0      | 87.0            | 1.0       | 48.0           | 20630-S     |
| CR_E2                                                              | S3_CR-E2        | 0.74      | 122.1     | 61.0            | 1.4       | 51.0           | 21160-S     |
| CR_E2                                                              | S30_CR-E2       | 0.16      | 55.8      | 27.8            | 2.3       | 76.3           | 20630-S     |
| CR_E2                                                              | S31_CR-E2       | 0.40      | 89.1      | 44.5            | 2.8       | 68.2           | 20631-S     |
| CR_E2                                                              | S32_CR-E2       | 0.31      | 62.8      | 49.9            | 0.5       | 45.1           | 20632-S     |
| CR_E2                                                              | S33_CR-E2       | 0.28      | 65.4      | 42.8            | 1.4       | 48.2           | 20632-S     |
| CR_E2                                                              | S34_CR-E2       | 0.18      | 59.2      | 29.6            | 1.2       | 56.2           | 20632-S     |
| CR_E2                                                              | S35_CR-E2       | 0.10      | 33.0      | 31.0            | 3.4       | 58.3           | 28327-S     |
| CR_E2                                                              | S36_CR-E2       | 0.18      | 65.4      | 26.8            | 0.5       | 63.9           | 28327-S     |
| CR_E2                                                              | S37_CR-E2       | 0.14      | 53.3      | 26.7            | 0.5       | 84.2           | 28328-S     |
| CR_E2                                                              | S38_CR-E2       | 0.22      | 65.6      | 32.8            | 0.5       | 82.8           | 28329-S     |
| CR_E2                                                              | S39_CR-E2       | 0.20      | 62.8      | 31.5            | 0.5       | 81.0           | 20650-S     |
| CR_E2                                                              | S4_CR-E2        | 0.40      | 89.0      | 44.5            | 0.5       | 88.3           | 21136       |
| CR_E2                                                              | S40_CR-E2       | 0.23      | 67.8      | 33.9            | 0.5       | 76.3           | 20649-S     |
| CR_E2                                                              | S41_CR-E2       | 0.12      | 49.4      | 24.7            | 0.5       | 74.4           | 20649-S     |
| CR_E2                                                              | S42_CR-E2       | 0.14      | 52.7      | 26.4            | 0.5       | 73.8           | 20650-S     |
| CR_E2                                                              | S43_CR-E2       | 0.10      | 36.1      | 28.9            | 0.5       | 72.8           | 20637-S     |
| CR_E2                                                              | S44_CR-E2       | 0.30      | 62.8      | 47.9            | 0.5       | 82.6           | 20637-S     |
| CR_E2                                                              | S45_CR-E2       | 0.44      | 93.4      | 46.7            | 0.5       | 76.2           | 67542-S     |
| CR_E2                                                              | S46_CR-E2       | 0.31      | 78.6      | 39.4            | 0.5       | 47.8           | 67542-S     |
| CR_E2                                                              | S47_CR-E2       | 0.62      | 111.7     | 55.9            | 0.5       | 48.9           | 20628-S     |
| CR_E2                                                              | S48_CR-E2       | 0.21      | 64.8      | 32.4            | 0.8       | 50.5           | 20648-S     |
| CR_E2                                                              | S49_CR-E2       | 0.57      | 98.1      | 58.2            | 2.0       | 58.6           | 20627-S     |
| CR_E2                                                              | S5_CR-E2        | 0.15      | 53.8      | 27.0            | 1.4       | 84.8           | 21138       |
| CR_E2                                                              | S50_CR-E2       | 0.54      | 103.9     | 51.9            | 0.8       | 46.2           | 20623-S     |
| CR_E2                                                              | S51_CR-E2       | 0.57      | 106.3     | 53.2            | 0.9       | 65.7           | 20623-S     |
| CR_E2                                                              | S52_CR-E2       | 0.23      | 67.7      | 33.8            | 1.1       | 64.9           | 20622-S     |
| CR_E2                                                              | S53_CR-E2       | 0.29      | 75.8      | 37.8            | 0.5       | 55.1           | 20624-S     |
| CR_E2                                                              | S54_CR-E2       | 0.56      | 276.9     | 20.2            | 0.5       | 52.9           | 20625-S     |
| CR_E2                                                              | S55_CR-E2       | 0.07      | 34.0      | 20.0            | 1.3       | 61.8           | 20636-S     |
| CR_E2                                                              | S56_CR-E2       | 0.56      | 105.4     | 52.7            | 0.8       | 47.6           | 20623-S     |
| CR_E2                                                              | S57_CR-E2       | 0.38      | 87.2      | 43.6            | 0.9       | 55.6           | 20635-S     |
| CR_E2                                                              | S58_CR-E2       | 0.32      | 79.6      | 39.8            | 0.5       | 52.4           | J31         |
| CR_E2                                                              | S59_CR-E2       | 0.35      | 112.9     | 31.0            | 0.5       | 73.1           | 67543-S     |
| CR_E2                                                              | S6_CR-E2        | 0.10      | 44.7      | 22.3            | 1.2       | 85.3           | 20641       |
| CR_E2                                                              | S60_CR-E2       | 0.53      | 102.9     | 51.4            | 0.5       | 81.0           | 20651-S     |
| CR_E2                                                              | S61_CR-E2       | 0.58      | 84.6      | 68.9            | 1.6       | 80.0           | 20652-S     |
| CR_E2                                                              | S62_CR-E2       | 0.52      | 101.5     | 50.8            | 2.1       | 67.2           | 20652-S     |
| CR_E2                                                              | S63_CR-E2       | 0.11      | 47.5      | 23.8            | 1.4       | 58.7           | 20633-S     |
| CR_E2                                                              | S64_CR-E2       | 0.43      | 92.4      | 46.3            | 0.6       | 54.6           | 20621-S     |
| CR_E2                                                              | S65_CR-E2       | 0.23      | 67.9      | 33.9            | 1.5       | 57.1           | 20620-S     |

| PCSWMM Model Components - Existing Conditions Subcatchment Details |                 |           |           |                 |           |                |             |
|--------------------------------------------------------------------|-----------------|-----------|-----------|-----------------|-----------|----------------|-------------|
| Network                                                            | Subcatchment ID | Area (ha) | Width (m) | Flow Length (m) | Slope (%) | Impervious (%) | Outlet Node |
| CR_E2                                                              | S66_CR-E2       | 0.23      | 68.0      | 34.1            | 0.5       | 55.9           | 20620-S     |
| CR_E2                                                              | S67_CR-E2       | 0.50      | 100.1     | 50.0            | 0.7       | 67.0           | 20619-S     |
| CR_E2                                                              | S68_CR-E2       | 0.44      | 93.8      | 46.8            | 3.8       | 67.0           | 20618-S     |
| CR_E2                                                              | S69_CR-E2       | 0.39      | 88.7      | 44.4            | 1.1       | 64.7           | 20614-S     |
| CR_E2                                                              | S7_CR-E2        | 0.24      | 69.7      | 34.9            | 1.2       | 46.6           | 20642-S     |
| CR_E2                                                              | S70_CR-E2       | 0.23      | 68.5      | 34.2            | 0.5       | 55.6           | 20645-S     |
| CR_E2                                                              | S71_CR-E2       | 0.41      | 95.1      | 43.1            | 2.1       | 54.0           | 20615-S     |
| CR_E2                                                              | S72_CR-E2       | 0.39      | 88.7      | 44.4            | 9.0       | 45.7           | 20615-S     |
| CR_E2                                                              | S73_CR-E2       | 0.24      | 69.9      | 35.0            | 1.3       | 47.9           | 20615-S     |
| CR_E2                                                              | S74_CR-E2       | 0.57      | 264.6     | 21.7            | 1.4       | 53.5           | 20615-S     |
| CR_E2                                                              | S75_CR-E2       | 0.39      | 88.2      | 44.2            | 3.7       | 61.7           | 20615-S     |
| CR_E2                                                              | S76_CR-E2       | 0.65      | 113.7     | 56.8            | 0.7       | 68.2           | 20616-S     |
| CR_E2                                                              | S77_CR-E2       | 0.19      | 61.1      | 30.5            | 1.4       | 51.3           | 20634-S     |
| CR_E2                                                              | S78_CR-E2       | 0.62      | 111.2     | 55.6            | 1.8       | 80.8           | 20617-S     |
| CR_E2                                                              | S79_CR-E2       | 0.15      | 55.6      | 27.8            | 1.7       | 55.1           | 20617-S     |
| CR_E2                                                              | S8_CR-E2        | 0.16      | 56.6      | 28.2            | 0.5       | 55.5           | 20608-S     |
| CR_E2                                                              | S80_CR-E2       | 0.34      | 82.4      | 41.2            | 1.9       | 46.2           | 20617-S     |
| CR_E2                                                              | S81_CR-E2       | 0.42      | 91.7      | 45.9            | 0.9       | 61.5           | 20617-S     |
| CR_E2                                                              | S82_CR-E2       | 0.34      | 74.7      | 45.6            | 1.2       | 80.7           | 20652-S     |
| CR_E2                                                              | S83_CR-E2       | 0.30      | 77.6      | 38.8            | 1.9       | 73.1           | 20638-S     |
| CR_E2                                                              | S84_CR-E2       | 0.15      | 54.4      | 27.2            | 1.3       | 77.4           | 20638-S     |
| CR_E2                                                              | S85_CR-E2       | 0.45      | 94.5      | 47.3            | 1.0       | 48.4           | 20640-S     |
| CR_E2                                                              | S86_CR-E2       | 0.37      | 85.8      | 42.9            | 0.7       | 83.3           | 20639-S     |
| CR_E2                                                              | S87_CR-E2       | 0.27      | 73.4      | 36.6            | 0.9       | 80.7           | 20639-S     |
| CR_E2                                                              | S88_CR-E2_2     | 0.37      | 72.4      | 51.4            | 1.2       | 71.7           | 20640-S     |
| CR_E2                                                              | S89_CR-E2       | 0.17      | 58.3      | 29.2            | 1.0       | 82.9           | 20685-S     |
| CR_E2                                                              | S9_CR-E2        | 0.84      | 129.7     | 64.9            | 1.0       | 51.7           | 20609-S     |
| CR_E2                                                              | S90_CR-E2       | 0.32      | 80.4      | 40.3            | 1.9       | 75.2           | 2001625-S   |
| CR_E2                                                              | S91_CR-E2       | 0.09      | 43.1      | 21.6            | 0.6       | 75.6           | 2001624-S   |
| CR_E2                                                              | S92_CR-E2       | 0.14      | 52.5      | 26.2            | 0.6       | 75.7           | 21154-S     |
| CR_E2                                                              | S93_CR-E2       | 0.38      | 87.3      | 43.7            | 1.0       | 77.9           | 20667-S     |
| CR_E2                                                              | S95_CR-E2       | 0.29      | 61.9      | 47.2            | 2.9       | 66.9           | 21130-S     |
| CR_E2                                                              | S96_CR-E2       | 0.55      | 104.6     | 52.4            | 3.5       | 50.2           | 21131-S     |
| CR_E2                                                              | S97_CR-E2       | 0.46      | 96.0      | 47.9            | 0.8       | 66.3           | 21133-S     |
| CR_E2                                                              | S98_CR-E2       | 0.44      | 103.5     | 42.6            | 1.3       | 69.5           | 21134-S     |
| CR_E2                                                              | S99_CR-E2       | 0.42      | 82.2      | 50.8            | 1.4       | 69.6           | 21135-S     |
| CR_E3                                                              | S1_CR-E3        | 0.42      | 91.0      | 45.6            | 0.9       | 87.6           | 28387-S     |
| CR_E3                                                              | S10_CR-E3       | 0.16      | 78.7      | 20.1            | 0.8       | 82.8           | 28385-S     |
| CR_E3                                                              | S11_CR-E3       | 0.11      | 46.1      | 23.1            | 0.6       | 36.4           | 28386-S     |
| CR_E3                                                              | S2_CR-E3        | 0.25      | 123.4     | 20.0            | 2.1       | 89.8           | 28384-S     |
| CR_E3                                                              | S3_CR-E3        | 0.25      | 71.0      | 35.4            | 1.6       | 80.5           | 28383-S     |
| CR_E3                                                              | S4_CR-E3        | 0.27      | 73.8      | 36.9            | 1.8       | 82.0           | 28384-S     |
| CR_E3                                                              | S5_CR-E3        | 0.13      | 51.7      | 25.9            | 1.6       | 84.7           | 28388-S     |
| CR_E3                                                              | S6_CR-E3        | 0.18      | 59.7      | 29.8            | 1.5       | 83.5           | 28392-S     |
| CR_E3                                                              | S7_CR-E3        | 0.05      | 26.2      | 20.0            | 0.8       | 78.4           | 28390-S     |
| CR_E3                                                              | S8_CR-E3        | 0.05      | 24.7      | 20.0            | 1.9       | 73.7           | 28389-S     |
| CR_E3                                                              | S9_CR-E3        | 0.11      | 47.4      | 23.7            | 2.7       | 75.5           | 28391-S     |
| CR_W1                                                              | S1_CR-W1        | 0.78      | 88.4      | 88.3            | 1.2       | 50.4           | 28847-S     |
| CR_W1                                                              | S2_CR-W1        | 0.15      | 68.2      | 22.6            | 1.1       | 64.4           | 28848-S     |
| CR_W1                                                              | S3_CR-W1        | 0.07      | 37.0      | 20.0            | 0.7       | 67.3           | 7458-S      |
| CR_W1                                                              | S4_CR-W1        | 0.26      | 127.7     | 20.0            | 2.4       | 56.8           | 28801-S     |
| CR_W1                                                              | S5_CR-W1        | 0.18      | 60.6      | 30.3            | 1.1       | 57.8           | 28802-S     |
| CR_W1                                                              | S6_CR-W1        | 0.43      | 92.4      | 46.1            | 3.8       | 45.7           | 28803-S     |
| CR_W1                                                              | S7_CR-W1        | 0.17      | 60.5      | 28.4            | 0.9       | 60.6           | 28803-S     |
| CR_W1                                                              | S8_CR-W1        | 0.16      | 57.3      | 28.6            | 0.5       | 50.1           | 7171-S      |
| CR_W1                                                              | S9_CR-W1        | 0.36      | 111.5     | 32.3            | 5.5       | 50.7           | J38         |
| CR_W2                                                              | S1_CR-W2        | 0.46      | 95.5      | 47.8            | 2.1       | 55.0           | 28837-S     |
| CR_W2                                                              | S10_CR-W2       | 0.33      | 81.6      | 40.8            | 8.5       | 53.4           | 28828-S     |
| CR_W2                                                              | S11_CR-W2       | 0.36      | 85.1      | 42.5            | 0.6       | 65.2           | J41         |
| CR_W2                                                              | S12_CR-W2       | 0.15      | 43.6      | 35.4            | 0.7       | 68.8           | 28829-S     |
| CR_W2                                                              | S13_CR-W2       | 0.14      | 53.6      | 26.8            | 1.3       | 77.7           | 28830-S     |
| CR_W2                                                              | S14_CR-W2       | 0.30      | 62.8      | 47.3            | 7.6       | 83.3           | 28831-S     |
| CR_W2                                                              | S15_CR-W2       | 0.06      | 28.9      | 20.0            | 0.5       | 68.7           | 28833-S     |
| CR_W2                                                              | S2_CR-W2        | 0.12      | 48.2      | 24.1            | 1.3       | 63.2           | 7456-S      |
| CR_W2                                                              | S3_CR-W2        | 0.15      | 54.5      | 27.2            | 3.3       | 61.0           | 28835-S     |
| CR_W2                                                              | S4_CR-W2        | 0.22      | 66.8      | 33.4            | 3.4       | 69.5           | 28836-S     |
| CR_W2                                                              | S5_CR-W2        | 0.34      | 82.1      | 41.0            | 3.6       | 83.5           | 28834-S     |
| CR_W2                                                              | S6_CR-W2        | 0.20      | 62.9      | 31.4            | 1.4       | 73.2           | 28834-S     |

| PCSWMM Model Components - Existing Conditions Subcatchment Details |                 |           |           |                 |           |                |             |
|--------------------------------------------------------------------|-----------------|-----------|-----------|-----------------|-----------|----------------|-------------|
| Network                                                            | Subcatchment ID | Area (ha) | Width (m) | Flow Length (m) | Slope (%) | Impervious (%) | Outlet Node |
| CR_W2                                                              | S7_CR-W2        | 0.22      | 60.8      | 36.8            | 6.9       | 85.2           | 28834-S     |
| CR_W2                                                              | S8_CR-W2        | 0.08      | 40.5      | 20.3            | 2.1       | 76.8           | 28832-S     |
| CR_W2                                                              | S9_CR-W2        | 0.36      | 60.4      | 59.2            | 2.5       | 55.3           | 28855-S     |
| CR_W3                                                              | S1_CR-W3        | 0.18      | 60.8      | 30.3            | 0.7       | 82.1           | 28857-S     |
| CR_W3                                                              | S10_CR-W3       | 0.09      | 41.9      | 21.0            | 1.2       | 76.1           | 28852-S     |
| CR_W3                                                              | S11_CR-W3       | 0.21      | 64.1      | 32.1            | 0.8       | 78.3           | 28841-S     |
| CR_W3                                                              | S12_CR-W3       | 0.33      | 81.4      | 40.7            | 1.4       | 59.9           | 28843-S     |
| CR_W3                                                              | S13_CR-W3       | 0.16      | 57.3      | 28.6            | 1.1       | 72.9           | 28842-S     |
| CR_W3                                                              | S14_CR-W3       | 0.14      | 52.1      | 26.0            | 1.0       | 70.0           | 28840-S     |
| CR_W3                                                              | S2_CR-W3        | 0.28      | 74.2      | 37.1            | 2.1       | 80.8           | 28857-S     |
| CR_W3                                                              | S3_CR-W3        | 0.28      | 93.6      | 29.9            | 2.0       | 65.5           | 28858-S     |
| CR_W3                                                              | S4_CR-W3        | 0.33      | 81.0      | 40.6            | 4.1       | 64.9           | 28861-S     |
| CR_W3                                                              | S5_CR-W3        | 0.42      | 91.3      | 45.7            | 2.3       | 26.3           | 28850-S     |
| CR_W3                                                              | S6_CR-W3        | 0.18      | 85.1      | 21.3            | 0.8       | 78.6           | 28849-S     |
| CR_W3                                                              | S7_CR-W3        | 0.07      | 36.7      | 20.0            | 2.3       | 80.2           | 28851-S     |
| CR_W3                                                              | S8_CR-W3        | 0.37      | 85.9      | 43.0            | 2.7       | 80.3           | 28851-S     |
| CR_W3                                                              | S9_CR-W3        | 0.05      | 27.0      | 20.0            | 1.6       | 71.4           | 28860-S     |
| CR_W4                                                              | S1_CR-W4        | 1.18      | 153.3     | 76.7            | 1.3       | 82.6           | J43         |
| CR_W4                                                              | S10_CR-W4       | 0.27      | 73.0      | 36.5            | 0.9       | 89.9           | 21456       |
| CR_W4                                                              | S11_CR-W4       | 0.72      | 120.3     | 60.2            | 1.2       | 90.0           | 21456       |
| CR_W4                                                              | S12_CR-W4       | 0.49      | 99.0      | 49.6            | 0.9       | 90.0           | 21456       |
| CR_W4                                                              | S13_CR-W4       | 0.40      | 89.8      | 44.8            | 2.3       | 89.9           | 21457       |
| CR_W4                                                              | S14_CR-W4       | 0.19      | 46.8      | 40.2            | 0.5       | 89.8           | 21455       |
| CR_W4                                                              | S15_CR-W4       | 0.56      | 76.5      | 73.3            | 2.6       | 69.5           | 21441-S     |
| CR_W4                                                              | S16_CR-W4       | 0.60      | 83.4      | 72.4            | 2.6       | 54.6           | 7446-S      |
| CR_W4                                                              | S17_CR-W4       | 0.49      | 72.1      | 68.1            | 1.6       | 66.7           | 7443-S      |
| CR_W4                                                              | S18_CR-W4       | 0.74      | 109.8     | 67.5            | 1.7       | 49.7           | 7455-S      |
| CR_W4                                                              | S19_CR-W4       | 0.82      | 102.1     | 80.6            | 1.9       | 67.1           | 28808-S     |
| CR_W4                                                              | S2_CR-W4        | 0.54      | 104.1     | 52.1            | 4.8       | 67.5           | J43         |
| CR_W4                                                              | S20_CR-W4       | 0.27      | 67.7      | 39.9            | 2.7       | 67.2           | 28789-S     |
| CR_W4                                                              | S21_CR-W4       | 0.58      | 90.3      | 64.3            | 2.2       | 73.8           | 28809-S     |
| CR_W4                                                              | S22_CR-W4       | 0.40      | 66.0      | 61.3            | 0.9       | 66.1           | 28815-S     |
| CR_W4                                                              | S23_CR-W4       | 0.50      | 99.6      | 49.8            | 1.4       | 62.6           | 28815-S     |
| CR_W4                                                              | S24_CR-W4       | 0.14      | 53.6      | 26.9            | 1.4       | 67.9           | 28800-S     |
| CR_W4                                                              | S25_CR-W4       | 0.08      | 40.2      | 20.1            | 3.9       | 25.4           | 28844-S     |
| CR_W4                                                              | S26_CR-W4       | 0.12      | 44.3      | 26.0            | 2.4       | 70.8           | 28810-S     |
| CR_W4                                                              | S27_CR-W4       | 0.33      | 81.0      | 40.5            | 0.8       | 82.3           | 28845-S     |
| CR_W4                                                              | S28_CR-W4       | 0.29      | 76.5      | 38.3            | 3.5       | 73.3           | 7444-S      |
| CR_W4                                                              | S29_CR-W4       | 0.10      | 44.3      | 22.1            | 2.7       | 77.5           | 7442-S      |
| CR_W4                                                              | S3_CR-W4        | 0.38      | 87.0      | 43.5            | 3.5       | 95.0           | J43         |
| CR_W4                                                              | S30_CR-W4       | 0.09      | 42.8      | 21.4            | 2.0       | 72.2           | 28846-S     |
| CR_W4                                                              | S4_CR-W4        | 0.97      | 139.2     | 69.5            | 3.5       | 94.5           | J43         |
| CR_W4                                                              | S5_CR-W4        | 0.72      | 120.3     | 60.1            | 1.9       | 76.9           | J21         |
| CR_W4                                                              | S6_CR-W4        | 0.70      | 85.1      | 82.5            | 0.9       | 55.1           | 68963-S     |
| CR_W4                                                              | S7_CR-W4        | 0.66      | 115.3     | 57.6            | 1.6       | 70.8           | 21458       |
| CR_W4                                                              | S8_CR-W4        | 0.53      | 102.5     | 51.3            | 1.5       | 90.0           | 21458       |
| CR_W4                                                              | S9_CR-W4        | 0.36      | 85.0      | 42.5            | 2.1       | 77.1           | 21456       |
| CR_W5                                                              | S1_CR-W5        | 0.26      | 71.5      | 35.7            | 3.6       | 58.0           | 7454-S      |
| CR_W5                                                              | S10_CR-W5       | 0.33      | 80.8      | 40.5            | 3.1       | 63.6           | 7168-S      |
| CR_W5                                                              | S2_CR-W5        | 0.20      | 62.5      | 31.3            | 2.9       | 82.6           | 7454-S      |
| CR_W5                                                              | S3_CR-W5        | 0.23      | 67.1      | 33.6            | 2.6       | 59.4           | 28788-S     |
| CR_W5                                                              | S4_CR-W5        | 0.83      | 139.0     | 60.0            | 1.9       | 72.6           | 28787-S     |
| CR_W5                                                              | S5_CR-W5        | 0.07      | 33.0      | 20.0            | 3.5       | 76.1           | 28788-S     |
| CR_W5                                                              | S6_CR-W5        | 0.07      | 35.4      | 20.0            | 0.8       | 69.8           | 7149-S      |
| CR_W5                                                              | S7_CR-W5        | 0.99      | 207.7     | 47.7            | 1.8       | 72.8           | 7169-S      |
| CR_W5                                                              | S8_CR-W5        | 0.31      | 57.0      | 53.7            | 2.8       | 64.2           | 28798-S     |
| CR_W5                                                              | S9_CR-W5        | 0.07      | 30.1      | 23.0            | 1.8       | 60.0           | 28799-S     |
| LO_E1                                                              | S1_LO-E1        | 0.33      | 81.5      | 40.8            | 0.8       | 84.0           | 29415-S     |
| LO_E1                                                              | S2_LO-E1        | 0.36      | 93.8      | 37.9            | 1.5       | 78.9           | 29416-S     |
| LO_E2/3                                                            | S1_LO-E2/E3     | 1.00      | 162.3     | 61.5            | 2.0       | 88.2           | 20679       |
| LO_E2/3                                                            | S10_LO-E2/3     | 0.13      | 51.0      | 25.6            | 0.7       | 77.4           | 29319-S     |
| LO_E2/3                                                            | S11_LO-E2/3     | 0.03      | 16.2      | 20.0            | 1.3       | 69.9           | 21158-S     |
| LO_E2/3                                                            | S12_LO-E2/3     | 0.10      | 43.7      | 21.8            | 1.8       | 27.3           | 20683-S     |
| LO_E2/3                                                            | S13_LO-E2/3     | 0.09      | 42.4      | 21.2            | 0.6       | 90.0           | 20684       |
| LO_E2/3                                                            | S14_LO-E2/3     | 0.13      | 50.1      | 26.4            | 1.0       | 81.2           | 29338-S     |
| LO_E2/3                                                            | S15_LO-E2/3     | 0.08      | 38.3      | 20.0            | 0.7       | 16.8           | 20675-S     |
| LO_E2/3                                                            | S2_LO-E2/3      | 0.39      | 64.3      | 61.1            | 0.7       | 88.9           | 20673       |
| LO_E2/3                                                            | S3_LO-E2/3      | 0.31      | 79.0      | 39.4            | 0.7       | 74.2           | 20668-S     |

| PCSWMM Model Components - Existing Conditions Subcatchment Details |                 |           |           |                 |           |                |             |
|--------------------------------------------------------------------|-----------------|-----------|-----------|-----------------|-----------|----------------|-------------|
| Network                                                            | Subcatchment ID | Area (ha) | Width (m) | Flow Length (m) | Slope (%) | Impervious (%) | Outlet Node |
| LO_E2/3                                                            | S4_LO-E2/3      | 0.11      | 38.7      | 28.7            | 0.7       | 86.4           | 20674-S     |
| LO_E2/3                                                            | S5_LO-E2/3      | 0.07      | 37.1      | 20.0            | 0.5       | 70.0           | 20669-S     |
| LO_E2/3                                                            | S6_LO-E2/3      | 0.14      | 52.6      | 26.2            | 0.7       | 73.9           | 20670-S     |
| LO_E2/3                                                            | S7_LO-E2/3      | 0.15      | 54.4      | 27.3            | 3.2       | 90.0           | 20672-S     |
| LO_E2/3                                                            | S8_LO-E2/3      | 0.20      | 63.3      | 31.6            | 2.9       | 76.8           | 20676-S     |
| LO_E2/3                                                            | S9_LO-E2/3      | 0.48      | 97.5      | 48.8            | 1.1       | 86.0           | 29318-S     |
| LO_W1                                                              | S1_LO-W1        | 0.31      | 79.3      | 39.7            | 2.9       | 51.5           | J3          |
| LO_W1                                                              | S10_LO-W1       | 0.39      | 81.7      | 47.6            | 2.4       | 50.0           | 20690-S     |
| LO_W1                                                              | S11_LO-W1       | 0.72      | 120.2     | 60.2            | 2.3       | 54.1           | J11         |
| LO_W1                                                              | S12_LO-W1       | 0.24      | 74.3      | 32.3            | 1.7       | 43.9           | 20690-S     |
| LO_W1                                                              | S2_LO-W1        | 0.26      | 71.8      | 36.0            | 1.7       | 52.4           | J4          |
| LO_W1                                                              | S3_LO-W1        | 0.19      | 62.3      | 31.1            | 1.2       | 55.8           | J5          |
| LO_W1                                                              | S4_LO-W1        | 0.21      | 64.2      | 32.1            | 2.9       | 56.3           | J6          |
| LO_W1                                                              | S5_LO-W1        | 0.33      | 81.2      | 40.5            | 1.9       | 53.4           | J7          |
| LO_W1                                                              | S6_LO-W1        | 0.41      | 90.5      | 45.3            | 3.1       | 52.7           | J8          |
| LO_W1                                                              | S7_LO-W1        | 0.39      | 88.0      | 44.0            | 2.7       | 52.7           | J9          |
| LO_W1                                                              | S8_LO-W1        | 0.67      | 115.3     | 57.7            | 3.5       | 48.1           | J10         |
| LO_W1                                                              | S9_LO-W1        | 1.17      | 152.6     | 76.4            | 1.6       | 45.0           | 20690-S     |
| LO_W2                                                              | S1_LO-W2        | 0.58      | 107.7     | 53.8            | 0.5       | 50.4           | 28332-S     |
| LO_W2                                                              | S10_LO-W2       | 0.22      | 66.7      | 33.4            | 1.7       | 86.1           | 28411-S     |
| LO_W2                                                              | S11_LO-W2       | 0.31      | 79.3      | 39.7            | 0.9       | 87.9           | 28409-S     |
| LO_W2                                                              | S12_LO-W2       | 0.13      | 50.9      | 25.4            | 1.0       | 49.9           | 28409-S     |
| LO_W2                                                              | S13_LO-W2       | 0.12      | 49.4      | 24.7            | 0.5       | 53.2           | 28417-S     |
| LO_W2                                                              | S14_LO-W2       | 0.21      | 65.3      | 32.6            | 0.8       | 54.5           | 28417-S     |
| LO_W2                                                              | S15_LO-W2       | 0.18      | 59.4      | 29.7            | 1.1       | 55.4           | 28418-S     |
| LO_W2                                                              | S16_LO-W2       | 0.14      | 53.3      | 26.7            | 0.9       | 57.0           | 28427-S     |
| LO_W2                                                              | S17_LO-W2       | 0.34      | 82.4      | 41.1            | 1.2       | 45.1           | 28417-S     |
| LO_W2                                                              | S18_LO-W2       | 0.20      | 63.2      | 31.5            | 1.9       | 49.5           | 28417-S     |
| LO_W2                                                              | S19_LO-W2       | 0.21      | 64.3      | 32.1            | 1.8       | 53.0           | 28418-S     |
| LO_W2                                                              | S2_LO-W2        | 0.24      | 57.9      | 40.6            | 0.5       | 54.6           | 28332-S     |
| LO_W2                                                              | S20_LO-W2       | 0.18      | 44.0      | 41.0            | 0.5       | 53.3           | 28427-S     |
| LO_W2                                                              | S21_LO-W2       | 0.11      | 46.6      | 23.4            | 1.2       | 49.3           | 28429-S     |
| LO_W2                                                              | S22_LO-W2       | 0.26      | 71.7      | 35.8            | 2.2       | 75.6           | 28428-S     |
| LO_W2                                                              | S23_LO-W2       | 0.22      | 65.9      | 32.9            | 1.3       | 61.2           | 28426-S     |
| LO_W2                                                              | S24_LO-W2       | 0.50      | 99.9      | 49.9            | 0.8       | 45.3           | 28426-S     |
| LO_W2                                                              | S25_LO-W2       | 0.11      | 47.2      | 23.6            | 1.3       | 60.6           | 28411-S     |
| LO_W2                                                              | S26_LO-W2       | 0.18      | 60.7      | 30.3            | 0.5       | 55.0           | 28410-S     |
| LO_W2                                                              | S27_LO-W2       | 0.32      | 80.6      | 40.3            | 0.9       | 53.9           | 28416-S     |
| LO_W2                                                              | S28_LO-W2       | 0.36      | 84.7      | 42.3            | 1.4       | 54.2           | 28419-S     |
| LO_W2                                                              | S29_LO-W2       | 0.29      | 75.5      | 37.8            | 1.4       | 54.9           | 28425-S     |
| LO_W2                                                              | S3_LO-W2        | 0.15      | 57.9      | 25.4            | 0.5       | 52.0           | 28331-S     |
| LO_W2                                                              | S30_LO-W2       | 0.08      | 40.4      | 20.2            | 0.8       | 63.4           | 21445-S     |
| LO_W2                                                              | S31_LO-W2       | 0.81      | 93.0      | 86.6            | 1.0       | 49.0           | 28424-S     |
| LO_W2                                                              | S32_LO-W2       | 0.47      | 69.3      | 67.8            | 0.9       | 59.2           | 28430-S     |
| LO_W2                                                              | S33_LO-W2       | 0.34      | 82.3      | 41.2            | 0.9       | 77.8           | 28430-S     |
| LO_W2                                                              | S34_LO-W2       | 0.22      | 65.7      | 32.8            | 1.8       | 72.2           | 28435-S     |
| LO_W2                                                              | S35_LO-W2       | 0.11      | 47.8      | 23.8            | 0.5       | 77.6           | 28404-S     |
| LO_W2                                                              | S36_LO-W2       | 0.14      | 45.3      | 31.9            | 0.8       | 83.5           | 28402-S     |
| LO_W2                                                              | S37_LO-W2       | 0.15      | 54.9      | 27.4            | 1.5       | 61.6           | 28412-S     |
| LO_W2                                                              | S38_LO-W2       | 0.60      | 109.4     | 54.7            | 1.1       | 49.9           | 28415-S     |
| LO_W2                                                              | S39_LO-W2       | 0.51      | 198.9     | 25.6            | 1.1       | 52.5           | 28420-S     |
| LO_W2                                                              | S4_LO-W2        | 0.26      | 57.9      | 45.1            | 0.5       | 75.6           | 28330-S     |
| LO_W2                                                              | S40_LO-W2       | 0.37      | 85.9      | 42.9            | 1.2       | 55.7           | 28423-S     |
| LO_W2                                                              | S41_LO-W2       | 0.30      | 77.0      | 38.4            | 1.1       | 61.8           | 28431-S     |
| LO_W2                                                              | S42_LO-W2       | 0.20      | 62.9      | 31.4            | 0.8       | 77.0           | 21447-S     |
| LO_W2                                                              | S43_LO-W2       | 0.67      | 115.6     | 57.9            | 0.7       | 45.3           | J16         |
| LO_W2                                                              | S44_LO-W2       | 1.15      | 151.5     | 75.7            | 1.0       | 50.9           | J17         |
| LO_W2                                                              | S45_LO-W2       | 0.28      | 92.6      | 30.4            | 1.5       | 56.9           | 28413-S     |
| LO_W2                                                              | S46_LO-W2       | 0.33      | 87.1      | 38.0            | 0.9       | 55.2           | 28414-S     |
| LO_W2                                                              | S47_LO-W2       | 0.35      | 95.4      | 37.0            | 0.6       | 55.5           | 28421-S     |
| LO_W2                                                              | S48_LO-W2       | 0.26      | 95.9      | 27.4            | 1.0       | 56.9           | 28422-S     |
| LO_W2                                                              | S49_LO-W2       | 0.12      | 48.6      | 24.3            | 1.7       | 60.5           | 28432-S     |
| LO_W2                                                              | S5_LO-W2        | 0.36      | 84.5      | 42.3            | 1.3       | 55.2           | 28334-S     |
| LO_W2                                                              | S50_LO-W2       | 0.08      | 40.1      | 20.1            | 1.1       | 71.3           | 28433-S     |
| LO_W2                                                              | S51_LO-W2       | 0.65      | 93.9      | 69.7            | 0.5       | 45.6           | J12         |
| LO_W2                                                              | S52_LO-W2       | 0.80      | 126.2     | 63.1            | 0.6       | 45.0           | J13         |
| LO_W2                                                              | S53_LO-W2       | 0.51      | 100.7     | 50.4            | 0.6       | 60.2           | J14         |
| LO_W2                                                              | S55_LO-W2       | 0.33      | 80.9      | 40.4            | 2.1       | 52.4           | 28333-S     |



| PCSWMM Model Components - Existing Conditions Subcatchment Details |                 |           |           |                 |           |                |             |
|--------------------------------------------------------------------|-----------------|-----------|-----------|-----------------|-----------|----------------|-------------|
| Network                                                            | Subcatchment ID | Area (ha) | Width (m) | Flow Length (m) | Slope (%) | Impervious (%) | Outlet Node |
| LO_W2                                                              | S56_LO-W2       | 0.57      | 107.1     | 53.5            | 0.7       | 49.2           | 28393-S     |
| LO_W2                                                              | S57_LO-W2       | 1.24      | 112.3     | 110.0           | 0.9       | 49.6           | 28394-S     |
| LO_W2                                                              | S58_LO-W2       | 0.62      | 80.2      | 77.1            | 0.5       | 51.6           | 28395-S     |
| LO_W2                                                              | S59_LO-W2       | 0.36      | 66.4      | 54.2            | 1.6       | 61.7           | 28396-S     |
| LO_W2                                                              | S6_LO-W2        | 0.35      | 83.7      | 41.9            | 1.4       | 55.1           | 28405-S     |
| LO_W2                                                              | S60_LO-W2       | 0.19      | 61.5      | 30.7            | 1.1       | 70.0           | 28399-S     |
| LO_W2                                                              | S61_LO-W2       | 0.27      | 73.1      | 36.6            | 2.0       | 66.6           | J1          |
| LO_W2                                                              | S62_LO-W2       | 0.14      | 52.3      | 26.2            | 3.6       | 62.8           | J2          |
| LO_W2                                                              | S63_LO-W2       | 0.52      | 104.5     | 49.3            | 1.1       | 64.3           | 28397-S     |
| LO_W2                                                              | S64_LO-W2       | 0.23      | 67.6      | 33.9            | 3.1       | 66.5           | 28401-S     |
| LO_W2                                                              | S65_LO-W2       | 0.05      | 23.8      | 20.0            | 0.5       | 69.6           | 28434-S     |
| LO_W2                                                              | S66_LO-W2       | 0.29      | 73.9      | 38.8            | 1.3       | 79.3           | 21446-S     |
| LO_W2                                                              | S67_LO-W2       | 0.27      | 73.0      | 36.4            | 0.6       | 80.8           | 28403-S     |
| LO_W2                                                              | S68_LO-W2       | 0.13      | 51.8      | 25.8            | 0.9       | 76.6           | 21443-S     |
| LO_W2                                                              | S69_LO-W2       | 0.97      | 139.2     | 69.6            | 0.6       | 81.4           | 21448-S     |
| LO_W2                                                              | S7_LO-W2        | 0.23      | 54.4      | 42.4            | 0.5       | 54.6           | 28406-S     |
| LO_W2                                                              | S70_LO-W2       | 0.77      | 123.8     | 61.9            | 1.0       | 53.6           | 21449-S     |
| LO_W2                                                              | S71_LO-W2       | 0.68      | 116.7     | 58.3            | 1.5       | 48.9           | 21449-S     |
| LO_W2                                                              | S72_LO-W2       | 0.66      | 114.9     | 57.4            | 0.5       | 52.2           | 21450-S     |
| LO_W2                                                              | S73_LO-W2       | 0.35      | 83.3      | 41.6            | 0.7       | 55.7           | 20693-S     |
| LO_W2                                                              | S74_LO-W2       | 0.06      | 27.7      | 20.5            | 0.7       | 77.5           | 28400-S     |
| LO_W2                                                              | S75_LO-W2       | 0.44      | 93.6      | 46.9            | 4.2       | 55.7           | 21454-S     |
| LO_W2                                                              | S76_LO-W2       | 0.31      | 79.0      | 39.6            | 1.6       | 52.1           | 21453-S     |
| LO_W2                                                              | S77_LO-W2       | 0.44      | 93.7      | 46.8            | 0.5       | 52.5           | 21452-S     |
| LO_W2                                                              | S78_LO-W2       | 0.81      | 126.9     | 63.5            | 1.1       | 45.0           | 21451-S     |
| LO_W2                                                              | S79_LO-W2       | 0.44      | 93.6      | 46.7            | 1.2       | 54.7           | 21451-S     |
| LO_W2                                                              | S8_LO-W2        | 0.20      | 62.8      | 31.4            | 0.5       | 58.9           | 28407-S     |
| LO_W2                                                              | S80_LO-W2       | 0.53      | 102.9     | 51.5            | 0.5       | 54.9           | 20694-S     |
| LO_W2                                                              | S81_LO-W2       | 0.30      | 77.6      | 38.7            | 0.8       | 59.3           | 20686-S     |
| LO_W2                                                              | S82_LO-W2       | 0.37      | 85.7      | 42.9            | 2.4       | 56.3           | 28436-S     |
| LO_W2                                                              | S83_LO-W2       | 0.20      | 62.7      | 31.3            | 1.0       | 58.9           | 20691-S     |
| LO_W2                                                              | S84_LO-W2       | 0.14      | 52.7      | 26.4            | 2.0       | 15.1           | 20692-S     |
| LO_W2                                                              | S9_LO-W2        | 0.17      | 58.8      | 29.3            | 3.2       | 62.2           | 2023102-S   |
| LO_W3                                                              | S1_LO-W3        | 0.19      | 61.0      | 30.5            | 1.7       | 66.4           | 28786-S     |
| LO_W3                                                              | S10_LO-W3       | 0.31      | 71.0      | 43.2            | 1.2       | 63.8           | 7452-S      |
| LO_W3                                                              | S11_LO-W3       | 0.29      | 76.2      | 38.1            | 2.5       | 64.5           | 7445-S      |
| LO_W3                                                              | S12_LO-W3       | 0.27      | 73.7      | 36.8            | 1.0       | 61.7           | 28863-S     |
| LO_W3                                                              | S13_LO-W3       | 0.27      | 56.9      | 47.2            | 0.9       | 55.9           | 7453-S      |
| LO_W3                                                              | S14_LO-W3       | 0.25      | 64.3      | 38.8            | 0.6       | 82.5           | 28856-S     |
| LO_W3                                                              | S15_LO-W3       | 0.29      | 76.3      | 38.1            | 0.6       | 72.9           | 7447-S      |
| LO_W3                                                              | S16_LO-W3       | 0.21      | 64.7      | 32.3            | 0.6       | 64.1           | 28864-S     |
| LO_W3                                                              | S17_LO-W3       | 0.07      | 34.0      | 20.0            | 1.1       | 70.1           | 28862-S     |
| LO_W3                                                              | S18_LO-W3       | 0.22      | 90.1      | 24.0            | 0.5       | 80.5           | 28866-S     |
| LO_W3                                                              | S19_LO-W3       | 0.94      | 137.0     | 68.6            | 0.6       | 68.4           | 28867-S     |
| LO_W3                                                              | S2_LO-W3        | 0.49      | 94.7      | 52.0            | 1.6       | 59.4           | 28785-S     |
| LO_W3                                                              | S20_LO-W3       | 0.25      | 51.2      | 48.9            | 2.1       | 71.5           | 29343-S     |
| LO_W3                                                              | S21_LO-W3       | 0.16      | 55.7      | 27.9            | 1.6       | 71.4           | 29340-S     |
| LO_W3                                                              | S22_LO-W3       | 0.62      | 111.4     | 55.7            | 3.1       | 83.1           | 29341-S     |
| LO_W3                                                              | S23_LO-W3       | 0.89      | 133.7     | 66.8            | 1.1       | 83.7           | 29342-S     |
| LO_W3                                                              | S24_LO-W3       | 0.25      | 90.0      | 27.5            | 0.5       | 70.0           | 28864-S     |
| LO_W3                                                              | S25_LO-W3       | 0.36      | 83.4      | 42.6            | 5.3       | 79.5           | 28821-S     |
| LO_W3                                                              | S26_LO-W3       | 0.33      | 81.0      | 40.5            | 1.1       | 70.0           | 28823-S     |
| LO_W3                                                              | S27_LO-W3       | 0.60      | 109.4     | 54.6            | 1.5       | 65.1           | 28839-S     |
| LO_W3                                                              | S28_LO-W3       | 0.69      | 88.8      | 77.8            | 1.7       | 79.3           | 28816-S     |
| LO_W3                                                              | S29_LO-W3       | 0.17      | 58.3      | 29.2            | 0.8       | 54.4           | 28817-S     |
| LO_W3                                                              | S3_LO-W3        | 0.24      | 49.3      | 47.7            | 1.6       | 60.1           | 28806-S     |
| LO_W3                                                              | S30_LO-W3       | 0.19      | 61.0      | 30.6            | 1.4       | 62.7           | 28819-S     |
| LO_W3                                                              | S31_LO-W3       | 0.25      | 70.3      | 35.1            | 0.8       | 56.4           | 28818-S     |
| LO_W3                                                              | S32_LO-W3       | 0.13      | 50.5      | 25.3            | 0.7       | 59.5           | 28854-S     |
| LO_W3                                                              | S33_LO-W3       | 0.36      | 85.0      | 42.4            | 1.3       | 45.3           | 28827-S     |
| LO_W3                                                              | S34_LO-W3       | 0.50      | 100.3     | 50.2            | 1.3       | 57.0           | 28826-S     |
| LO_W3                                                              | S35_LO-W3       | 0.10      | 44.5      | 22.2            | 1.7       | 62.7           | 28820-S     |
| LO_W3                                                              | S36_LO-W3       | 0.04      | 21.5      | 20.0            | 1.4       | 68.5           | 7448-S      |
| LO_W3                                                              | S37_LO-W3       | 0.24      | 68.6      | 34.4            | 2.9       | 55.8           | 28853-S     |
| LO_W3                                                              | S38_LO-W3       | 0.10      | 44.6      | 22.3            | 0.5       | 59.9           | 28827-S     |
| LO_W3                                                              | S39_LO-W3       | 0.72      | 98.1      | 73.2            | 2.0       | 52.0           | 7150-S      |
| LO_W3                                                              | S4_LO-W3        | 0.23      | 48.0      | 47.8            | 1.0       | 53.8           | 28865-S     |
| LO_W3                                                              | S40_LO-W3       | 0.40      | 63.7      | 62.1            | 0.9       | 54.0           | 28790-S     |

| PCSWMM Model Components - Existing Conditions Subcatchment Details |                 |           |           |                 |           |                |             |
|--------------------------------------------------------------------|-----------------|-----------|-----------|-----------------|-----------|----------------|-------------|
| Network                                                            | Subcatchment ID | Area (ha) | Width (m) | Flow Length (m) | Slope (%) | Impervious (%) | Outlet Node |
| LO_W3                                                              | S41_LO-W3       | 0.15      | 54.2      | 27.1            | 1.1       | 56.4           | 28791-S     |
| LO_W3                                                              | S42_LO-W3       | 0.04      | 20.0      | 20.0            | 0.6       | 70.0           | 28792-S     |
| LO_W3                                                              | S43_LO-W3       | 0.24      | 53.8      | 43.7            | 1.5       | 8.5            | 28793-S     |
| LO_W3                                                              | S44_LO-W3       | 0.04      | 19.0      | 20.0            | 1.3       | 70.0           | 7192-S      |
| LO_W3                                                              | S45_LO-W3       | 0.08      | 40.9      | 20.4            | 1.1       | 65.3           | 28793-S     |
| LO_W3                                                              | S46_LO-W3       | 0.10      | 45.1      | 22.5            | 2.1       | 63.9           | 28805-S     |
| LO_W3                                                              | S47_LO-W3       | 0.05      | 25.4      | 20.0            | 0.8       | 61.3           | 28796-S     |
| LO_W3                                                              | S48_LO-W3       | 0.04      | 21.7      | 20.0            | 1.5       | 67.1           | 28795-S     |
| LO_W3                                                              | S5_LO-W3        | 0.44      | 90.8      | 48.6            | 1.2       | 53.3           | 28807-S     |
| LO_W3                                                              | S50_LO-W3       | 0.62      | 111.0     | 55.5            | 1.1       | 58.6           | 7150-S      |
| LO_W3                                                              | S51_LO-W3       | 0.27      | 91.4      | 29.9            | 0.6       | 54.0           | 7150-S      |
| LO_W3                                                              | S52_LO-W3       | 0.19      | 47.5      | 40.6            | 0.7       | 47.0           | J20         |
| LO_W3                                                              | S53_LO-W3       | 0.69      | 117.5     | 58.7            | 3.1       | 52.3           | J20         |
| LO_W3                                                              | S6_LO-W3        | 0.10      | 44.0      | 22.0            | 0.9       | 58.8           | 28813-S     |
| LO_W3                                                              | S7_LO-W3        | 0.18      | 60.0      | 30.1            | 5.8       | 60.3           | 28812-S     |
| LO_W3                                                              | S8_LO-W3        | 0.42      | 94.8      | 44.8            | 0.6       | 56.6           | 7450-S      |
| LO_W3                                                              | S9_LO-W3        | 0.40      | 76.1      | 52.7            | 0.6       | 50.2           | 7451-S      |
| TC1                                                                | S1_TC1          | 0.63      | 112.5     | 56.2            | 2.1       | 53.9           | 2001968-S   |
| TC1                                                                | S10_TC1         | 0.87      | 131.5     | 65.8            | 1.4       | 55.0           | J54         |
| TC1                                                                | S11_TC1         | 0.51      | 101.0     | 50.4            | 1.4       | 55.0           | J57         |
| TC1                                                                | S12_TC1         | 0.73      | 121.1     | 60.6            | 1.3       | 60.7           | 25742-S     |
| TC1                                                                | S13_TC1         | 0.71      | 119.1     | 59.6            | 2.9       | 55.0           | J56         |
| TC1                                                                | S14_TC1         | 0.92      | 135.2     | 67.7            | 3.2       | 55.0           | J59         |
| TC1                                                                | S15_TC1         | 0.79      | 125.6     | 62.7            | 2.6       | 60.7           | 2001963-S   |
| TC1                                                                | S16_TC1         | 0.62      | 111.7     | 55.8            | 5.0       | 55.0           | J58         |
| TC1                                                                | S17_TC1         | 0.92      | 135.5     | 67.7            | 2.3       | 55.5           | J61         |
| TC1                                                                | S18_TC1         | 0.59      | 109.1     | 54.5            | 5.2       | 55.1           | J60         |
| TC1                                                                | S19_TC1         | 0.52      | 101.7     | 50.8            | 1.3       | 65.3           | 25744-S     |
| TC1                                                                | S2_TC1          | 0.37      | 86.5      | 43.2            | 4.3       | 6.0            | 2001965-S   |
| TC1                                                                | S20_TC1         | 0.73      | 121.2     | 60.6            | 3.5       | 62.9           | 25743       |
| TC1                                                                | S21_TC1         | 0.62      | 111.6     | 55.9            | 1.2       | 57.7           | 25743-S     |
| TC1                                                                | S22_TC1         | 0.38      | 87.3      | 43.6            | 1.6       | 66.9           | 2001964-S   |
| TC1                                                                | S23_TC1         | 0.27      | 73.6      | 36.7            | 1.8       | 61.7           | J64         |
| TC1                                                                | S3_TC1          | 0.34      | 62.7      | 54.9            | 5.9       | 25.2           | 2001965-S   |
| TC1                                                                | S4_TC1          | 0.58      | 107.5     | 53.8            | 2.0       | 38.7           | 26377-S     |
| TC1                                                                | S5_TC1          | 1.38      | 166.1     | 83.1            | 3.1       | 42.7           | 26378-S     |
| TC1                                                                | S6_TC1          | 0.54      | 104.1     | 52.0            | 1.3       | 51.4           | 25745-S     |
| TC1                                                                | S7_TC1          | 0.34      | 82.8      | 41.3            | 10.0      | 55.0           | 25745-S     |
| TC1                                                                | S8_TC1          | 0.52      | 101.7     | 50.9            | 2.2       | 60.5           | 25741-S     |
| TC1                                                                | S9_TC1          | 1.51      | 202.7     | 74.6            | 2.1       | 55.0           | J55         |

| PCSWMM Model Components - Future Intensification Conditions Subcatchment Details |                 |           |           |                 |           |                |             |
|----------------------------------------------------------------------------------|-----------------|-----------|-----------|-----------------|-----------|----------------|-------------|
| Network                                                                          | Subcatchment ID | Area (ha) | Width (m) | Flow Length (m) | Slope (%) | Impervious (%) | Outlet Node |
| CR_E1                                                                            | S1_CR-E1        | 0.28      | 74.3      | 37.1            | 5.3       | 83.7           | 21152-S     |
| CR_E1                                                                            | S2_CR-E1        | 0.09      | 43.1      | 21.6            | 0.7       | 91.4           | 21151-S     |
| CR_E1                                                                            | S3_CR-E1        | 0.30      | 72.3      | 42.0            | 1.3       | 92.4           | 21149-S     |
| CR_E1                                                                            | S4_CR-E1        | 0.63      | 111.9     | 56.0            | 1.7       | 57.0           | 21150-S     |
| CR_E2                                                                            | S1_CR-E2        | 0.38      | 86.7      | 43.3            | 1.5       | 62.3           | 20613-S     |
| CR_E2                                                                            | S10_CR-E2       | 0.35      | 61.0      | 58.0            | 1.2       | 60.7           | 20611-S     |
| CR_E2                                                                            | S100_CR-E2      | 0.28      | 67.9      | 41.2            | 1.8       | 78.0           | 21127-S     |
| CR_E2                                                                            | S101_CR-E2      | 0.77      | 124.0     | 61.9            | 1.5       | 89.9           | 29337       |
| CR_E2                                                                            | S102_CR-E2      | 0.29      | 76.0      | 38.1            | 1.3       | 64.5           | 29337-S     |
| CR_E2                                                                            | S103_CR-E2      | 0.18      | 59.5      | 30.7            | 1.6       | 66.4           | 29336-S     |
| CR_E2                                                                            | S104_CR-E2      | 0.20      | 45.9      | 43.9            | 1.5       | 79.3           | 29399-S     |
| CR_E2                                                                            | S105_CR-E2      | 0.07      | 37.2      | 20.0            | 1.6       | 73.2           | 29397-S     |
| CR_E2                                                                            | S106_CR-E2      | 0.09      | 41.6      | 20.7            | 1.7       | 70.0           | 29395-S     |
| CR_E2                                                                            | S107_CR-E2      | 0.22      | 66.1      | 33.0            | 2.1       | 75.0           | 29392-S     |
| CR_E2                                                                            | S108_CR-E2      | 0.16      | 57.4      | 28.6            | 0.6       | 67.2           | 29391-S     |
| CR_E2                                                                            | S109_CR-E2      | 0.47      | 97.1      | 48.5            | 1.1       | 81.2           | 29400-S     |
| CR_E2                                                                            | S11_CR-E2       | 0.09      | 42.7      | 21.3            | 1.4       | 63.8           | 20611-S     |
| CR_E2                                                                            | S110_CR-E2      | 0.05      | 23.9      | 20.0            | 1.8       | 70.0           | 29400-S     |
| CR_E2                                                                            | S111_CR-E2      | 0.14      | 53.1      | 26.6            | 0.9       | 78.2           | 29389-S     |
| CR_E2                                                                            | S112_CR-E2      | 0.30      | 76.8      | 38.4            | 1.3       | 71.3           | 29388-S     |
| CR_E2                                                                            | S113_CR-E2      | 0.46      | 96.3      | 48.2            | 2.1       | 83.4           | 21143-S     |
| CR_E2                                                                            | S114_CR-E2      | 0.16      | 61.6      | 26.2            | 0.5       | 70.4           | 21143-S     |
| CR_E2                                                                            | S115_CR-E2      | 0.37      | 87.0      | 42.3            | 1.1       | 81.0           | 21159-S     |
| CR_E2                                                                            | S116_CR-E2      | 0.33      | 80.5      | 40.7            | 1.3       | 80.2           | 21159-S     |
| CR_E2                                                                            | S117_CR-E2      | 0.28      | 75.3      | 37.6            | 2.2       | 68.9           | 29335-S     |
| CR_E2                                                                            | S118_CR-E2      | 0.11      | 35.3      | 30.8            | 0.9       | 63.5           | 29333-S     |
| CR_E2                                                                            | S119_CR-E2      | 0.13      | 50.8      | 25.3            | 1.0       | 64.7           | 29332-S     |
| CR_E2                                                                            | S12_CR-E2       | 0.23      | 68.2      | 34.0            | 1.1       | 61.2           | 20610-S     |
| CR_E2                                                                            | S120_CR-E2      | 0.26      | 72.0      | 35.9            | 1.6       | 65.1           | 29334-S     |
| CR_E2                                                                            | S121_CR-E2      | 0.15      | 54.9      | 27.4            | 1.4       | 68.0           | 29408-S     |
| CR_E2                                                                            | S122_CR-E2      | 0.12      | 48.3      | 24.2            | 0.5       | 68.3           | 29409-S     |
| CR_E2                                                                            | S123_CR-E2      | 0.44      | 93.6      | 46.7            | 2.7       | 67.7           | 29409-S     |
| CR_E2                                                                            | S124_CR-E2      | 0.33      | 60.3      | 55.4            | 1.6       | 76.3           | 29394-S     |
| CR_E2                                                                            | S125_CR-E2      | 0.19      | 61.0      | 30.5            | 0.5       | 67.1           | 29393-S     |
| CR_E2                                                                            | S126_CR-E2      | 0.15      | 53.9      | 27.0            | 0.8       | 68.7           | 21141-S     |
| CR_E2                                                                            | S127_CR-E2      | 0.67      | 116.1     | 58.1            | 1.8       | 65.6           | 29396-S     |
| CR_E2                                                                            | S128_CR-E2      | 0.65      | 114.1     | 57.0            | 1.6       | 66.3           | 29410-S     |
| CR_E2                                                                            | S129_CR-E2      | 0.51      | 100.8     | 50.4            | 3.6       | 84.7           | 29320-S     |
| CR_E2                                                                            | S13_CR-E2       | 0.57      | 106.6     | 53.4            | 2.1       | 59.2           | J65         |
| CR_E2                                                                            | S130_CR-E2      | 0.39      | 88.7      | 44.4            | 2.3       | 66.6           | 29320-S     |
| CR_E2                                                                            | S131_CR-E2      | 0.09      | 42.0      | 21.0            | 0.6       | 66.4           | 21156-S     |
| CR_E2                                                                            | S132_CR-E2      | 0.24      | 69.1      | 34.6            | 2.1       | 66.7           | 29411-S     |
| CR_E2                                                                            | S133_CR-E2      | 0.05      | 25.9      | 20.0            | 0.6       | 70.0           | 29413-S     |
| CR_E2                                                                            | S134_CR-E2      | 0.17      | 58.1      | 29.1            | 1.3       | 68.5           | 29412-S     |
| CR_E2                                                                            | S135_CR-E2      | 0.72      | 233.5     | 30.8            | 1.8       | 67.7           | 29321-S     |
| CR_E2                                                                            | S136_CR-E2      | 0.50      | 100.2     | 50.0            | 0.9       | 75.8           | 29406-S     |
| CR_E2                                                                            | S137_CR-E2      | 0.19      | 62.0      | 30.9            | 2.0       | 80.7           | 29405-S     |
| CR_E2                                                                            | S138_CR-E2      | 0.68      | 94.1      | 71.8            | 2.0       | 80.9           | 21142-S     |
| CR_E2                                                                            | S139_CR-E2      | 0.48      | 98.0      | 49.1            | 6.9       | 66.4           | 29419-S     |
| CR_E2                                                                            | S14_CR-E2       | 0.60      | 109.7     | 54.9            | 0.6       | 58.8           | J50         |
| CR_E2                                                                            | S140_CR-E2      | 0.15      | 47.3      | 32.1            | 3.3       | 67.5           | 29401-S     |
| CR_E2                                                                            | S141_CR-E2      | 0.26      | 72.2      | 36.2            | 3.1       | 66.8           | 29398-S     |
| CR_E2                                                                            | S142_CR-E2      | 0.30      | 77.2      | 38.7            | 2.1       | 67.4           | 29421-S     |
| CR_E2                                                                            | S143_CR-E2      | 0.22      | 71.0      | 31.3            | 2.7       | 66.5           | 29420-S     |
| CR_E2                                                                            | S144_CR-E2      | 0.07      | 33.3      | 20.0            | 3.9       | 67.9           | 29422-S     |
| CR_E2                                                                            | S145_CR-E2      | 0.10      | 44.1      | 22.1            | 2.9       | 69.2           | 29316-S     |
| CR_E2                                                                            | S146_CR-E2      | 0.32      | 77.7      | 41.6            | 3.8       | 66.3           | 29317-S     |
| CR_E2                                                                            | S147_CR-E2      | 0.25      | 77.8      | 31.6            | 2.4       | 79.0           | 29418-S     |
| CR_E2                                                                            | S148_CR-E2      | 0.18      | 59.5      | 29.7            | 2.7       | 82.5           | 29417-S     |
| CR_E2                                                                            | S149_CR-E2      | 0.37      | 85.8      | 42.9            | 1.0       | 79.4           | 21144-S     |
| CR_E2                                                                            | S15_CR-E2       | 0.08      | 40.3      | 20.1            | 2.5       | 62.3           | 2001630-S   |
| CR_E2                                                                            | S150_CR-E2      | 0.24      | 68.7      | 34.3            | 1.5       | 77.4           | 21145-S     |
| CR_E2                                                                            | S151_CR-E2      | 0.69      | 117.4     | 58.8            | 4.2       | 61.6           | 29331       |
| CR_E2                                                                            | S152_CR-E2      | 0.90      | 134.3     | 67.1            | 3.0       | 65.0           | 29403-S     |
| CR_E2                                                                            | S153_CR-E2      | 0.32      | 80.5      | 40.3            | 4.6       | 65.0           | 29402-S     |
| CR_E2                                                                            | S154_CR-E2      | 0.32      | 79.4      | 39.7            | 10.0      | 65.8           | 29403-S     |
| CR_E2                                                                            | S155_CR-E2      | 0.54      | 76.9      | 70.2            | 10.0      | 54.6           | 29402-S     |
| CR_E2                                                                            | S156_CR-E2      | 0.19      | 60.9      | 30.5            | 2.8       | 66.4           | 29404-S     |

| PCSWMM Model Components - Future Intensification Conditions Subcatchment Details |                 |           |           |                 |           |                |             |
|----------------------------------------------------------------------------------|-----------------|-----------|-----------|-----------------|-----------|----------------|-------------|
| Network                                                                          | Subcatchment ID | Area (ha) | Width (m) | Flow Length (m) | Slope (%) | Impervious (%) | Outlet Node |
| CR_E2                                                                            | S157_CR-E2      | 0.32      | 80.2      | 40.0            | 2.3       | 65.2           | 29422-S     |
| CR_E2                                                                            | S158_CR-E2      | 0.49      | 98.3      | 50.0            | 4.4       | 66.3           | 29322-S     |
| CR_E2                                                                            | S159_CR-E2      | 0.36      | 85.4      | 42.7            | 2.1       | 72.0           | 29331-S     |
| CR_E2                                                                            | S16_CR-E2       | 0.09      | 42.0      | 21.0            | 1.9       | 60.7           | 20642-S     |
| CR_E2                                                                            | S160_CR-E2      | 0.18      | 59.8      | 29.9            | 3.1       | 80.4           | 29330-S     |
| CR_E2                                                                            | S161_CR-E2      | 0.11      | 47.5      | 23.8            | 4.5       | 74.9           | 29327-S     |
| CR_E2                                                                            | S162_CR-E2      | 0.14      | 52.1      | 26.1            | 1.6       | 53.6           | 29326-S     |
| CR_E2                                                                            | S163_CR-E2      | 0.19      | 61.6      | 30.7            | 1.2       | 44.9           | 29325-S     |
| CR_E2                                                                            | S164_CR-E2      | 0.17      | 59.1      | 29.5            | 1.8       | 60.5           | 29324-S     |
| CR_E2                                                                            | S165_CR-E2      | 0.10      | 44.4      | 22.2            | 3.0       | 70.4           | 29323-S     |
| CR_E2                                                                            | S166_CR-E2      | 0.49      | 72.4      | 67.4            | 3.1       | 79.2           | 21145-S     |
| CR_E2                                                                            | S167_CR-E2      | 0.14      | 52.7      | 26.4            | 1.7       | 76.0           | 21146-S     |
| CR_E2                                                                            | S168_CR-E2      | 0.33      | 81.7      | 40.9            | 0.5       | 67.7           | 21147-S     |
| CR_E2                                                                            | S169_CR-E2      | 0.12      | 48.3      | 24.1            | 0.9       | 71.6           | 21128-S     |
| CR_E2                                                                            | S17_CR-E2       | 0.23      | 89.6      | 25.6            | 1.2       | 73.3           | 20647-S     |
| CR_E2                                                                            | S18_CR-E2       | 0.24      | 89.5      | 27.1            | 0.8       | 75.2           | J34         |
| CR_E2                                                                            | S19_CR-E2       | 0.43      | 92.9      | 46.5            | 0.5       | 59.4           | 20643-S     |
| CR_E2                                                                            | S2_CR-E2        | 0.36      | 84.3      | 42.2            | 0.7       | 57.8           | 20613-S     |
| CR_E2                                                                            | S20_CR-E2       | 0.68      | 116.3     | 58.1            | 1.3       | 61.0           | 20644-S     |
| CR_E2                                                                            | S21_CR-E2       | 0.36      | 78.1      | 46.7            | 2.4       | 73.4           | 21129-S     |
| CR_E2                                                                            | S22_CR-E2       | 0.73      | 120.6     | 60.2            | 0.9       | 58.4           | J49         |
| CR_E2                                                                            | S23_CR-E2       | 0.77      | 112.5     | 68.7            | 4.3       | 58.2           | 2001627-S   |
| CR_E2                                                                            | S24_CR-E2       | 0.24      | 68.9      | 34.4            | 8.8       | 63.8           | 20629-S     |
| CR_E2                                                                            | S25_CR-E2       | 0.36      | 84.3      | 42.1            | 0.5       | 78.3           | 20629-S     |
| CR_E2                                                                            | S26_CR-E2       | 0.51      | 100.5     | 50.3            | 0.9       | 73.0           | J35         |
| CR_E2                                                                            | S27_CR-E2       | 0.17      | 58.8      | 29.5            | 1.3       | 62.1           | 20626-S     |
| CR_E2                                                                            | S28_CR-E2       | 0.16      | 56.4      | 28.1            | 1.3       | 61.4           | 20626-S     |
| CR_E2                                                                            | S29_CR-E2       | 0.79      | 91.0      | 87.0            | 1.0       | 56.9           | 20630-S     |
| CR_E2                                                                            | S3_CR-E2        | 0.74      | 122.1     | 61.0            | 1.4       | 59.0           | 21160-S     |
| CR_E2                                                                            | S30_CR-E2       | 0.16      | 55.8      | 27.8            | 2.3       | 76.3           | 20630-S     |
| CR_E2                                                                            | S31_CR-E2       | 0.40      | 89.1      | 44.5            | 2.8       | 70.5           | 20631-S     |
| CR_E2                                                                            | S32_CR-E2       | 0.31      | 62.8      | 49.9            | 0.5       | 55.0           | 20632-S     |
| CR_E2                                                                            | S33_CR-E2       | 0.28      | 65.4      | 42.8            | 1.4       | 56.9           | 20632-S     |
| CR_E2                                                                            | S34_CR-E2       | 0.18      | 59.2      | 29.6            | 1.2       | 61.7           | 20632-S     |
| CR_E2                                                                            | S35_CR-E2       | 0.10      | 33.0      | 31.0            | 3.4       | 63.6           | 28327-S     |
| CR_E2                                                                            | S36_CR-E2       | 0.18      | 65.4      | 26.8            | 0.5       | 69.4           | 28327-S     |
| CR_E2                                                                            | S37_CR-E2       | 0.14      | 53.3      | 26.7            | 0.5       | 84.2           | 28328-S     |
| CR_E2                                                                            | S38_CR-E2       | 0.22      | 65.6      | 32.8            | 0.5       | 82.8           | 28329-S     |
| CR_E2                                                                            | S39_CR-E2       | 0.20      | 62.8      | 31.5            | 0.5       | 81.0           | 20650-S     |
| CR_E2                                                                            | S4_CR-E2        | 0.40      | 89.0      | 44.5            | 0.5       | 88.3           | 21136       |
| CR_E2                                                                            | S40_CR-E2       | 0.23      | 67.8      | 33.9            | 0.5       | 76.3           | 20649-S     |
| CR_E2                                                                            | S41_CR-E2       | 0.12      | 49.4      | 24.7            | 0.5       | 74.4           | 20649-S     |
| CR_E2                                                                            | S42_CR-E2       | 0.14      | 52.7      | 26.4            | 0.5       | 73.8           | 20650-S     |
| CR_E2                                                                            | S43_CR-E2       | 0.10      | 36.1      | 28.9            | 0.5       | 72.8           | 20637-S     |
| CR_E2                                                                            | S44_CR-E2       | 0.30      | 62.8      | 47.9            | 0.5       | 82.6           | 20637-S     |
| CR_E2                                                                            | S45_CR-E2       | 0.44      | 93.4      | 46.7            | 0.5       | 77.9           | 67542-S     |
| CR_E2                                                                            | S46_CR-E2       | 0.31      | 78.6      | 39.4            | 0.5       | 56.7           | 67542-S     |
| CR_E2                                                                            | S47_CR-E2       | 0.62      | 111.7     | 55.9            | 0.5       | 57.3           | 20628-S     |
| CR_E2                                                                            | S48_CR-E2       | 0.21      | 64.8      | 32.4            | 0.8       | 58.3           | 20648-S     |
| CR_E2                                                                            | S49_CR-E2       | 0.57      | 98.1      | 58.2            | 2.0       | 63.2           | 20627-S     |
| CR_E2                                                                            | S5_CR-E2        | 0.15      | 53.8      | 27.0            | 1.4       | 86.0           | 21138       |
| CR_E2                                                                            | S50_CR-E2       | 0.54      | 103.9     | 51.9            | 0.8       | 55.9           | 20623-S     |
| CR_E2                                                                            | S51_CR-E2       | 0.57      | 106.3     | 53.2            | 0.9       | 69.4           | 20623-S     |
| CR_E2                                                                            | S52_CR-E2       | 0.23      | 67.7      | 33.8            | 1.1       | 64.9           | 20622-S     |
| CR_E2                                                                            | S53_CR-E2       | 0.29      | 75.8      | 37.8            | 0.5       | 61.1           | 20624-S     |
| CR_E2                                                                            | S54_CR-E2       | 0.56      | 276.9     | 20.2            | 0.5       | 59.7           | 20625-S     |
| CR_E2                                                                            | S55_CR-E2       | 0.07      | 34.0      | 20.0            | 1.3       | 65.1           | 20636-S     |
| CR_E2                                                                            | S56_CR-E2       | 0.56      | 105.4     | 52.7            | 0.8       | 57.0           | 20623-S     |
| CR_E2                                                                            | S57_CR-E2       | 0.38      | 87.2      | 43.6            | 0.9       | 61.4           | 20635-S     |
| CR_E2                                                                            | S58_CR-E2       | 0.32      | 79.6      | 39.8            | 0.5       | 59.4           | J31         |
| CR_E2                                                                            | S59_CR-E2       | 0.35      | 112.9     | 31.0            | 0.5       | 75.1           | 67543-S     |
| CR_E2                                                                            | S6_CR-E2        | 0.10      | 44.7      | 22.3            | 1.2       | 86.4           | 20641       |
| CR_E2                                                                            | S60_CR-E2       | 0.53      | 102.9     | 51.4            | 0.5       | 81.0           | 20651-S     |
| CR_E2                                                                            | S61_CR-E2       | 0.58      | 84.6      | 68.9            | 1.6       | 80.0           | 20652-S     |
| CR_E2                                                                            | S62_CR-E2       | 0.52      | 101.5     | 50.8            | 2.1       | 71.3           | 20652-S     |
| CR_E2                                                                            | S63_CR-E2       | 0.11      | 47.5      | 23.8            | 1.4       | 63.6           | 20633-S     |
| CR_E2                                                                            | S64_CR-E2       | 0.43      | 92.4      | 46.3            | 0.6       | 60.8           | 20621-S     |
| CR_E2                                                                            | S65_CR-E2       | 0.23      | 67.9      | 33.9            | 1.5       | 62.3           | 20620-S     |

| PCSWMM Model Components - Future Intensification Conditions Subcatchment Details |                 |           |           |                 |           |                |             |
|----------------------------------------------------------------------------------|-----------------|-----------|-----------|-----------------|-----------|----------------|-------------|
| Network                                                                          | Subcatchment ID | Area (ha) | Width (m) | Flow Length (m) | Slope (%) | Impervious (%) | Outlet Node |
| CR_E2                                                                            | S66_CR-E2       | 0.23      | 68.0      | 34.1            | 0.5       | 61.6           | 20620-S     |
| CR_E2                                                                            | S67_CR-E2       | 0.50      | 100.1     | 50.0            | 0.7       | 70.5           | 20619-S     |
| CR_E2                                                                            | S68_CR-E2       | 0.44      | 93.8      | 46.8            | 3.8       | 67.0           | 20618-S     |
| CR_E2                                                                            | S69_CR-E2       | 0.39      | 88.7      | 44.4            | 1.1       | 64.8           | 20614-S     |
| CR_E2                                                                            | S7_CR-E2        | 0.24      | 69.7      | 34.9            | 1.2       | 55.9           | 20642-S     |
| CR_E2                                                                            | S70_CR-E2       | 0.23      | 68.5      | 34.2            | 0.5       | 55.6           | 20645-S     |
| CR_E2                                                                            | S71_CR-E2       | 0.41      | 95.1      | 43.1            | 2.1       | 59.3           | 20615-S     |
| CR_E2                                                                            | S72_CR-E2       | 0.39      | 88.7      | 44.4            | 9.0       | 55.4           | 20615-S     |
| CR_E2                                                                            | S73_CR-E2       | 0.24      | 69.9      | 35.0            | 1.3       | 56.8           | 20615-S     |
| CR_E2                                                                            | S74_CR-E2       | 0.57      | 264.6     | 21.7            | 1.4       | 53.5           | 20615-S     |
| CR_E2                                                                            | S75_CR-E2       | 0.39      | 88.2      | 44.2            | 3.7       | 62.4           | 20615-S     |
| CR_E2                                                                            | S76_CR-E2       | 0.65      | 113.7     | 56.8            | 0.7       | 71.5           | 20616-S     |
| CR_E2                                                                            | S77_CR-E2       | 0.19      | 61.1      | 30.5            | 1.4       | 58.8           | 20634-S     |
| CR_E2                                                                            | S78_CR-E2       | 0.62      | 111.2     | 55.6            | 1.8       | 80.8           | 20617-S     |
| CR_E2                                                                            | S79_CR-E2       | 0.15      | 55.6      | 27.8            | 1.7       | 59.2           | 20617-S     |
| CR_E2                                                                            | S8_CR-E2        | 0.16      | 56.6      | 28.2            | 0.5       | 61.3           | 20608-S     |
| CR_E2                                                                            | S80_CR-E2       | 0.34      | 82.4      | 41.2            | 1.9       | 55.7           | 20617-S     |
| CR_E2                                                                            | S81_CR-E2       | 0.42      | 91.7      | 45.9            | 0.9       | 66.3           | 20617-S     |
| CR_E2                                                                            | S82_CR-E2       | 0.34      | 74.7      | 45.6            | 1.2       | 82.4           | 20652-S     |
| CR_E2                                                                            | S83_CR-E2       | 0.30      | 77.6      | 38.8            | 1.9       | 73.1           | 20638-S     |
| CR_E2                                                                            | S84_CR-E2       | 0.15      | 54.4      | 27.2            | 1.3       | 77.4           | 20638-S     |
| CR_E2                                                                            | S85_CR-E2       | 0.45      | 94.5      | 47.3            | 1.0       | 48.4           | 20640-S     |
| CR_E2                                                                            | S86_CR-E2       | 0.37      | 85.8      | 42.9            | 0.7       | 83.3           | 20639-S     |
| CR_E2                                                                            | S87_CR-E2       | 0.27      | 73.4      | 36.6            | 0.9       | 80.7           | 20639-S     |
| CR_E2                                                                            | S88_CR-E2_2     | 0.37      | 72.4      | 51.4            | 1.2       | 74.4           | 20640-S     |
| CR_E2                                                                            | S89_CR-E2       | 0.17      | 58.3      | 29.2            | 1.0       | 82.9           | 20685-S     |
| CR_E2                                                                            | S9_CR-E2        | 0.84      | 129.7     | 64.9            | 1.0       | 59.0           | 20609-S     |
| CR_E2                                                                            | S90_CR-E2       | 0.32      | 80.4      | 40.3            | 1.9       | 75.2           | 2001625-S   |
| CR_E2                                                                            | S91_CR-E2       | 0.09      | 43.1      | 21.6            | 0.6       | 75.6           | 2001624-S   |
| CR_E2                                                                            | S92_CR-E2       | 0.14      | 52.5      | 26.2            | 0.6       | 75.7           | 21154-S     |
| CR_E2                                                                            | S93_CR-E2       | 0.38      | 87.3      | 43.7            | 1.0       | 77.9           | 20667-S     |
| CR_E2                                                                            | S95_CR-E2       | 0.29      | 61.9      | 47.2            | 2.9       | 66.9           | 21130-S     |
| CR_E2                                                                            | S96_CR-E2       | 0.55      | 104.6     | 52.4            | 3.5       | 50.2           | 21131-S     |
| CR_E2                                                                            | S97_CR-E2       | 0.46      | 96.0      | 47.9            | 0.8       | 66.3           | 21133-S     |
| CR_E2                                                                            | S98_CR-E2       | 0.44      | 103.5     | 42.6            | 1.3       | 67.1           | 21134-S     |
| CR_E2                                                                            | S99_CR-E2       | 0.42      | 82.2      | 50.8            | 1.4       | 69.6           | 21135-S     |
| CR_E3                                                                            | S1_CR-E3        | 0.42      | 91.0      | 45.6            | 0.9       | 87.6           | 28387-S     |
| CR_E3                                                                            | S10_CR-E3       | 0.16      | 78.7      | 20.1            | 0.8       | 82.8           | 28385-S     |
| CR_E3                                                                            | S11_CR-E3       | 0.11      | 46.1      | 23.1            | 0.6       | 36.4           | 28386-S     |
| CR_E3                                                                            | S2_CR-E3        | 0.25      | 123.4     | 20.0            | 2.1       | 89.8           | 28384-S     |
| CR_E3                                                                            | S3_CR-E3        | 0.25      | 71.0      | 35.4            | 1.6       | 80.5           | 28383-S     |
| CR_E3                                                                            | S4_CR-E3        | 0.27      | 73.8      | 36.9            | 1.8       | 82.0           | 28384-S     |
| CR_E3                                                                            | S5_CR-E3        | 0.13      | 51.7      | 25.9            | 1.6       | 84.7           | 28388-S     |
| CR_E3                                                                            | S6_CR-E3        | 0.18      | 59.7      | 29.8            | 1.5       | 83.5           | 28392-S     |
| CR_E3                                                                            | S7_CR-E3        | 0.05      | 26.2      | 20.0            | 0.8       | 78.4           | 28390-S     |
| CR_E3                                                                            | S8_CR-E3        | 0.05      | 24.7      | 20.0            | 1.9       | 73.7           | 28389-S     |
| CR_E3                                                                            | S9_CR-E3        | 0.11      | 47.4      | 23.7            | 2.7       | 75.5           | 28391-S     |
| CR_W1                                                                            | S1_CR-W1        | 0.78      | 88.4      | 88.3            | 1.2       | 58.1           | 28847-S     |
| CR_W1                                                                            | S2_CR-W1        | 0.15      | 68.2      | 22.6            | 1.1       | 66.7           | 28848-S     |
| CR_W1                                                                            | S3_CR-W1        | 0.07      | 37.0      | 20.0            | 0.7       | 67.4           | 7458-S      |
| CR_W1                                                                            | S4_CR-W1        | 0.26      | 127.7     | 20.0            | 2.4       | 62.1           | 28801-S     |
| CR_W1                                                                            | S5_CR-W1        | 0.18      | 60.6      | 30.3            | 1.1       | 62.7           | 28802-S     |
| CR_W1                                                                            | S6_CR-W1        | 0.43      | 92.4      | 46.1            | 3.8       | 55.4           | 28803-S     |
| CR_W1                                                                            | S7_CR-W1        | 0.17      | 60.5      | 28.4            | 0.9       | 64.1           | 28803-S     |
| CR_W1                                                                            | S8_CR-W1        | 0.16      | 57.3      | 28.6            | 0.5       | 50.1           | 7171-S      |
| CR_W1                                                                            | S9_CR-W1        | 0.36      | 111.5     | 32.3            | 5.5       | 53.9           | J38         |
| CR_W2                                                                            | S1_CR-W2        | 0.46      | 95.5      | 47.8            | 2.1       | 61.1           | 28837-S     |
| CR_W2                                                                            | S10_CR-W2       | 0.33      | 81.6      | 40.8            | 8.5       | 57.8           | 28828-S     |
| CR_W2                                                                            | S11_CR-W2       | 0.36      | 85.1      | 42.5            | 0.6       | 66.1           | J41         |
| CR_W2                                                                            | S12_CR-W2       | 0.15      | 43.6      | 35.4            | 0.7       | 71.5           | 28829-S     |
| CR_W2                                                                            | S13_CR-W2       | 0.14      | 53.6      | 26.8            | 1.3       | 77.7           | 28830-S     |
| CR_W2                                                                            | S14_CR-W2       | 0.30      | 62.8      | 47.3            | 7.6       | 83.3           | 28831-S     |
| CR_W2                                                                            | S15_CR-W2       | 0.06      | 28.9      | 20.0            | 0.5       | 68.7           | 28833-S     |
| CR_W2                                                                            | S2_CR-W2        | 0.12      | 48.2      | 24.1            | 1.3       | 65.9           | 7456-S      |
| CR_W2                                                                            | S3_CR-W2        | 0.15      | 54.5      | 27.2            | 3.3       | 61.1           | 28835-S     |
| CR_W2                                                                            | S4_CR-W2        | 0.22      | 66.8      | 33.4            | 3.4       | 71.4           | 28836-S     |
| CR_W2                                                                            | S5_CR-W2        | 0.34      | 82.1      | 41.0            | 3.6       | 83.5           | 28834-S     |
| CR_W2                                                                            | S6_CR-W2        | 0.20      | 62.9      | 31.4            | 1.4       | 73.2           | 28834-S     |

| PCSWMM Model Components - Future Intensification Conditions Subcatchment Details |                 |           |           |                 |           |                |             |
|----------------------------------------------------------------------------------|-----------------|-----------|-----------|-----------------|-----------|----------------|-------------|
| Network                                                                          | Subcatchment ID | Area (ha) | Width (m) | Flow Length (m) | Slope (%) | Impervious (%) | Outlet Node |
| CR_W2                                                                            | S7_CR-W2        | 0.22      | 60.8      | 36.8            | 6.9       | 85.2           | 28834-S     |
| CR_W2                                                                            | S8_CR-W2        | 0.08      | 40.5      | 20.3            | 2.1       | 76.8           | 28832-S     |
| CR_W2                                                                            | S9_CR-W2        | 0.36      | 60.4      | 59.2            | 2.5       | 58.5           | 28855-S     |
| CR_W3                                                                            | S1_CR-W3        | 0.18      | 60.8      | 30.3            | 0.7       | 82.1           | 28857-S     |
| CR_W3                                                                            | S10_CR-W3       | 0.09      | 41.9      | 21.0            | 1.2       | 76.1           | 28852-S     |
| CR_W3                                                                            | S11_CR-W3       | 0.21      | 64.1      | 32.1            | 0.8       | 78.3           | 28841-S     |
| CR_W3                                                                            | S12_CR-W3       | 0.33      | 81.4      | 40.7            | 1.4       | 59.9           | 28843-S     |
| CR_W3                                                                            | S13_CR-W3       | 0.16      | 57.3      | 28.6            | 1.1       | 72.9           | 28842-S     |
| CR_W3                                                                            | S14_CR-W3       | 0.14      | 52.1      | 26.0            | 1.0       | 70.0           | 28840-S     |
| CR_W3                                                                            | S2_CR-W3        | 0.28      | 74.2      | 37.1            | 2.1       | 80.8           | 28857-S     |
| CR_W3                                                                            | S3_CR-W3        | 0.28      | 93.6      | 29.9            | 2.0       | 65.5           | 28858-S     |
| CR_W3                                                                            | S4_CR-W3        | 0.33      | 81.0      | 40.6            | 4.1       | 65.1           | 28861-S     |
| CR_W3                                                                            | S5_CR-W3        | 0.42      | 91.3      | 45.7            | 2.3       | 26.3           | 28850-S     |
| CR_W3                                                                            | S6_CR-W3        | 0.18      | 85.1      | 21.3            | 0.8       | 78.6           | 28849-S     |
| CR_W3                                                                            | S7_CR-W3        | 0.07      | 36.7      | 20.0            | 2.3       | 80.2           | 28851-S     |
| CR_W3                                                                            | S8_CR-W3        | 0.37      | 85.9      | 43.0            | 2.7       | 80.3           | 28851-S     |
| CR_W3                                                                            | S9_CR-W3        | 0.05      | 27.0      | 20.0            | 1.6       | 71.4           | 28860-S     |
| CR_W4                                                                            | S1_CR-W4        | 1.18      | 153.3     | 76.7            | 1.3       | 83.4           | J43         |
| CR_W4                                                                            | S10_CR-W4       | 0.27      | 73.0      | 36.5            | 0.9       | 89.9           | 21456       |
| CR_W4                                                                            | S11_CR-W4       | 0.72      | 120.3     | 60.2            | 1.2       | 90.0           | 21456       |
| CR_W4                                                                            | S12_CR-W4       | 0.49      | 99.0      | 49.6            | 0.9       | 90.0           | 21456       |
| CR_W4                                                                            | S13_CR-W4       | 0.40      | 89.8      | 44.8            | 2.3       | 89.9           | 21457       |
| CR_W4                                                                            | S14_CR-W4       | 0.19      | 46.8      | 40.2            | 0.5       | 89.8           | 21455       |
| CR_W4                                                                            | S15_CR-W4       | 0.56      | 76.5      | 73.3            | 2.6       | 73.6           | 21441-S     |
| CR_W4                                                                            | S16_CR-W4       | 0.60      | 83.4      | 72.4            | 2.6       | 60.8           | 7446-S      |
| CR_W4                                                                            | S17_CR-W4       | 0.49      | 72.1      | 68.1            | 1.6       | 66.7           | 7443-S      |
| CR_W4                                                                            | S18_CR-W4       | 0.74      | 109.8     | 67.5            | 1.7       | 49.7           | 7455-S      |
| CR_W4                                                                            | S19_CR-W4       | 0.82      | 102.1     | 80.6            | 1.9       | 67.1           | 28808-S     |
| CR_W4                                                                            | S2_CR-W4        | 0.54      | 104.1     | 52.1            | 4.8       | 67.5           | J43         |
| CR_W4                                                                            | S20_CR-W4       | 0.27      | 67.7      | 39.9            | 2.7       | 67.2           | 28789-S     |
| CR_W4                                                                            | S21_CR-W4       | 0.58      | 90.3      | 64.3            | 2.2       | 73.8           | 28809-S     |
| CR_W4                                                                            | S22_CR-W4       | 0.40      | 66.0      | 61.3            | 0.9       | 66.1           | 28815-S     |
| CR_W4                                                                            | S23_CR-W4       | 0.50      | 99.6      | 49.8            | 1.4       | 62.6           | 28815-S     |
| CR_W4                                                                            | S24_CR-W4       | 0.14      | 53.6      | 26.9            | 1.4       | 67.9           | 28800-S     |
| CR_W4                                                                            | S25_CR-W4       | 0.08      | 40.2      | 20.1            | 3.9       | 25.4           | 28844-S     |
| CR_W4                                                                            | S26_CR-W4       | 0.12      | 44.3      | 26.0            | 2.4       | 70.8           | 28810-S     |
| CR_W4                                                                            | S27_CR-W4       | 0.33      | 81.0      | 40.5            | 0.8       | 82.3           | 28845-S     |
| CR_W4                                                                            | S28_CR-W4       | 0.29      | 76.5      | 38.3            | 3.5       | 73.3           | 7444-S      |
| CR_W4                                                                            | S29_CR-W4       | 0.10      | 44.3      | 22.1            | 2.7       | 77.5           | 7442-S      |
| CR_W4                                                                            | S3_CR-W4        | 0.38      | 87.0      | 43.5            | 3.5       | 95.0           | J43         |
| CR_W4                                                                            | S30_CR-W4       | 0.09      | 42.8      | 21.4            | 2.0       | 72.2           | 28846-S     |
| CR_W4                                                                            | S4_CR-W4        | 0.97      | 139.2     | 69.5            | 3.5       | 94.5           | J43         |
| CR_W4                                                                            | S5_CR-W4        | 0.72      | 120.3     | 60.1            | 1.9       | 76.9           | J21         |
| CR_W4                                                                            | S6_CR-W4        | 0.70      | 85.1      | 82.5            | 0.9       | 60.6           | 68963-S     |
| CR_W4                                                                            | S7_CR-W4        | 0.66      | 115.3     | 57.6            | 1.6       | 75.2           | 21458       |
| CR_W4                                                                            | S8_CR-W4        | 0.53      | 102.5     | 51.3            | 1.5       | 90.0           | 21458       |
| CR_W4                                                                            | S9_CR-W4        | 0.36      | 85.0      | 42.5            | 2.1       | 80.0           | 21456       |
| CR_W5                                                                            | S1_CR-W5        | 0.26      | 71.5      | 35.7            | 3.6       | 58.0           | 7454-S      |
| CR_W5                                                                            | S10_CR-W5       | 0.33      | 80.8      | 40.5            | 3.1       | 63.6           | 7168-S      |
| CR_W5                                                                            | S2_CR-W5        | 0.20      | 62.5      | 31.3            | 2.9       | 82.6           | 7454-S      |
| CR_W5                                                                            | S3_CR-W5        | 0.23      | 67.1      | 33.6            | 2.6       | 59.4           | 28788-S     |
| CR_W5                                                                            | S4_CR-W5        | 0.83      | 139.0     | 60.0            | 1.9       | 72.6           | 28787-S     |
| CR_W5                                                                            | S5_CR-W5        | 0.07      | 33.0      | 20.0            | 3.5       | 76.1           | 28788-S     |
| CR_W5                                                                            | S6_CR-W5        | 0.07      | 35.4      | 20.0            | 0.8       | 69.8           | 7149-S      |
| CR_W5                                                                            | S7_CR-W5        | 0.99      | 207.7     | 47.7            | 1.8       | 72.8           | 7169-S      |
| CR_W5                                                                            | S8_CR-W5        | 0.31      | 57.0      | 53.7            | 2.8       | 64.2           | 28798-S     |
| CR_W5                                                                            | S9_CR-W5        | 0.07      | 30.1      | 23.0            | 1.8       | 60.0           | 28799-S     |
| LO_E1                                                                            | S1_LO-E1        | 0.33      | 81.5      | 40.8            | 0.8       | 84.0           | 29415-S     |
| LO_E1                                                                            | S2_LO-E1        | 0.36      | 93.8      | 37.9            | 1.5       | 80.0           | 29416-S     |
| LO_E2/3                                                                          | S1_LO-E2/E3     | 1.00      | 162.3     | 61.5            | 2.0       | 88.2           | 20679       |
| LO_E2/3                                                                          | S10_LO-E2/3     | 0.13      | 51.0      | 25.6            | 0.7       | 77.4           | 29319-S     |
| LO_E2/3                                                                          | S11_LO-E2/3     | 0.03      | 16.2      | 20.0            | 1.3       | 69.9           | 21158-S     |
| LO_E2/3                                                                          | S12_LO-E2/3     | 0.10      | 43.7      | 21.8            | 1.8       | 27.3           | 20683-S     |
| LO_E2/3                                                                          | S13_LO-E2/3     | 0.09      | 42.4      | 21.2            | 0.6       | 90.0           | 20684       |
| LO_E2/3                                                                          | S14_LO-E2/3     | 0.13      | 50.1      | 26.4            | 1.0       | 81.2           | 29338-S     |
| LO_E2/3                                                                          | S15_LO-E2/3     | 0.08      | 38.3      | 20.0            | 0.7       | 16.8           | 20675-S     |
| LO_E2/3                                                                          | S2_LO-E2/3      | 0.39      | 64.3      | 61.1            | 0.7       | 88.9           | 20673       |
| LO_E2/3                                                                          | S3_LO-E2/3      | 0.31      | 79.0      | 39.4            | 0.7       | 74.2           | 20668-S     |

| PCSWMM Model Components - Future Intensification Conditions Subcatchment Details |                 |           |           |                 |           |                |             |
|----------------------------------------------------------------------------------|-----------------|-----------|-----------|-----------------|-----------|----------------|-------------|
| Network                                                                          | Subcatchment ID | Area (ha) | Width (m) | Flow Length (m) | Slope (%) | Impervious (%) | Outlet Node |
| LO_E2/3                                                                          | S4_LO-E2/3      | 0.11      | 38.7      | 28.7            | 0.7       | 86.4           | 20674-S     |
| LO_E2/3                                                                          | S5_LO-E2/3      | 0.07      | 37.1      | 20.0            | 0.5       | 70.0           | 20669-S     |
| LO_E2/3                                                                          | S6_LO-E2/3      | 0.14      | 52.6      | 26.2            | 0.7       | 73.9           | 20670-S     |
| LO_E2/3                                                                          | S7_LO-E2/3      | 0.15      | 54.4      | 27.3            | 3.2       | 90.0           | 20672-S     |
| LO_E2/3                                                                          | S8_LO-E2/3      | 0.20      | 63.3      | 31.6            | 2.9       | 76.8           | 20676-S     |
| LO_E2/3                                                                          | S9_LO-E2/3      | 0.48      | 97.5      | 48.8            | 1.1       | 86.0           | 29318-S     |
| LO_W1                                                                            | S1_LO-W1        | 0.31      | 79.3      | 39.7            | 2.9       | 58.9           | J3          |
| LO_W1                                                                            | S10_LO-W1       | 0.39      | 81.7      | 47.6            | 2.4       | 58.0           | 20690-S     |
| LO_W1                                                                            | S11_LO-W1       | 0.72      | 120.2     | 60.2            | 2.3       | 60.5           | J11         |
| LO_W1                                                                            | S12_LO-W1       | 0.24      | 74.3      | 32.3            | 1.7       | 48.3           | 20690-S     |
| LO_W1                                                                            | S2_LO-W1        | 0.26      | 71.8      | 36.0            | 1.7       | 59.4           | J4          |
| LO_W1                                                                            | S3_LO-W1        | 0.19      | 62.3      | 31.1            | 1.2       | 61.5           | J5          |
| LO_W1                                                                            | S4_LO-W1        | 0.21      | 64.2      | 32.1            | 2.9       | 61.8           | J6          |
| LO_W1                                                                            | S5_LO-W1        | 0.33      | 81.2      | 40.5            | 1.9       | 60.0           | J7          |
| LO_W1                                                                            | S6_LO-W1        | 0.41      | 90.5      | 45.3            | 3.1       | 59.6           | J8          |
| LO_W1                                                                            | S7_LO-W1        | 0.39      | 88.0      | 44.0            | 2.7       | 59.6           | J9          |
| LO_W1                                                                            | S8_LO-W1        | 0.67      | 115.3     | 57.7            | 3.5       | 56.8           | J10         |
| LO_W1                                                                            | S9_LO-W1        | 1.17      | 152.6     | 76.4            | 1.6       | 55.0           | 20690-S     |
| LO_W2                                                                            | S1_LO-W2        | 0.58      | 107.7     | 53.8            | 0.5       | 56.7           | 28332-S     |
| LO_W2                                                                            | S10_LO-W2       | 0.22      | 66.7      | 33.4            | 1.7       | 86.1           | 28411-S     |
| LO_W2                                                                            | S11_LO-W2       | 0.31      | 79.3      | 39.7            | 0.9       | 88.4           | 28409-S     |
| LO_W2                                                                            | S12_LO-W2       | 0.13      | 50.9      | 25.4            | 1.0       | 58.0           | 28409-S     |
| LO_W2                                                                            | S13_LO-W2       | 0.12      | 49.4      | 24.7            | 0.5       | 59.9           | 28417-S     |
| LO_W2                                                                            | S14_LO-W2       | 0.21      | 65.3      | 32.6            | 0.8       | 60.7           | 28417-S     |
| LO_W2                                                                            | S15_LO-W2       | 0.18      | 59.4      | 29.7            | 1.1       | 61.3           | 28418-S     |
| LO_W2                                                                            | S16_LO-W2       | 0.14      | 53.3      | 26.7            | 0.9       | 62.2           | 28427-S     |
| LO_W2                                                                            | S17_LO-W2       | 0.34      | 82.4      | 41.1            | 1.2       | 55.1           | 28417-S     |
| LO_W2                                                                            | S18_LO-W2       | 0.20      | 63.2      | 31.5            | 1.9       | 57.7           | 28417-S     |
| LO_W2                                                                            | S19_LO-W2       | 0.21      | 64.3      | 32.1            | 1.8       | 59.8           | 28418-S     |
| LO_W2                                                                            | S2_LO-W2        | 0.24      | 57.9      | 40.6            | 0.5       | 58.2           | 28332-S     |
| LO_W2                                                                            | S20_LO-W2       | 0.18      | 44.0      | 41.0            | 0.5       | 60.0           | 28427-S     |
| LO_W2                                                                            | S21_LO-W2       | 0.11      | 46.6      | 23.4            | 1.2       | 57.6           | 28429-S     |
| LO_W2                                                                            | S22_LO-W2       | 0.26      | 71.7      | 35.8            | 2.2       | 76.0           | 28428-S     |
| LO_W2                                                                            | S23_LO-W2       | 0.22      | 65.9      | 32.9            | 1.3       | 65.2           | 28426-S     |
| LO_W2                                                                            | S24_LO-W2       | 0.50      | 99.9      | 49.9            | 0.8       | 55.2           | 28426-S     |
| LO_W2                                                                            | S25_LO-W2       | 0.11      | 47.2      | 23.6            | 1.3       | 64.3           | 28411-S     |
| LO_W2                                                                            | S26_LO-W2       | 0.18      | 60.7      | 30.3            | 0.5       | 61.0           | 28410-S     |
| LO_W2                                                                            | S27_LO-W2       | 0.32      | 80.6      | 40.3            | 0.9       | 60.3           | 28416-S     |
| LO_W2                                                                            | S28_LO-W2       | 0.36      | 84.7      | 42.3            | 1.4       | 60.5           | 28419-S     |
| LO_W2                                                                            | S29_LO-W2       | 0.29      | 75.5      | 37.8            | 1.4       | 60.9           | 28425-S     |
| LO_W2                                                                            | S3_LO-W2        | 0.15      | 57.9      | 25.4            | 0.5       | 57.3           | 28331-S     |
| LO_W2                                                                            | S30_LO-W2       | 0.08      | 40.4      | 20.2            | 0.8       | 66.0           | 21445-S     |
| LO_W2                                                                            | S31_LO-W2       | 0.81      | 93.0      | 86.6            | 1.0       | 57.4           | 28424-S     |
| LO_W2                                                                            | S32_LO-W2       | 0.47      | 69.3      | 67.8            | 0.9       | 65.4           | 28430-S     |
| LO_W2                                                                            | S33_LO-W2       | 0.34      | 82.3      | 41.2            | 0.9       | 79.7           | 28430-S     |
| LO_W2                                                                            | S34_LO-W2       | 0.22      | 65.7      | 32.8            | 1.8       | 75.2           | 28435-S     |
| LO_W2                                                                            | S35_LO-W2       | 0.11      | 47.8      | 23.8            | 0.5       | 77.6           | 28404-S     |
| LO_W2                                                                            | S36_LO-W2       | 0.14      | 45.3      | 31.9            | 0.8       | 83.5           | 28402-S     |
| LO_W2                                                                            | S37_LO-W2       | 0.15      | 54.9      | 27.4            | 1.5       | 64.9           | 28412-S     |
| LO_W2                                                                            | S38_LO-W2       | 0.60      | 109.4     | 54.7            | 1.1       | 57.9           | 28415-S     |
| LO_W2                                                                            | S39_LO-W2       | 0.51      | 198.9     | 25.6            | 1.1       | 59.5           | 28420-S     |
| LO_W2                                                                            | S4_LO-W2        | 0.26      | 57.9      | 45.1            | 0.5       | 76.6           | 28330-S     |
| LO_W2                                                                            | S40_LO-W2       | 0.37      | 85.9      | 42.9            | 1.2       | 61.4           | 28423-S     |
| LO_W2                                                                            | S41_LO-W2       | 0.30      | 77.0      | 38.4            | 1.1       | 65.7           | 28431-S     |
| LO_W2                                                                            | S42_LO-W2       | 0.20      | 62.9      | 31.4            | 0.8       | 77.0           | 21447-S     |
| LO_W2                                                                            | S43_LO-W2       | 0.67      | 115.6     | 57.9            | 0.7       | 55.2           | J16         |
| LO_W2                                                                            | S44_LO-W2       | 1.15      | 151.5     | 75.7            | 1.0       | 59.6           | J17         |
| LO_W2                                                                            | S45_LO-W2       | 0.28      | 92.6      | 30.4            | 1.5       | 62.1           | 28413-S     |
| LO_W2                                                                            | S46_LO-W2       | 0.33      | 87.1      | 38.0            | 0.9       | 61.1           | 28414-S     |
| LO_W2                                                                            | S47_LO-W2       | 0.35      | 95.4      | 37.0            | 0.6       | 61.3           | 28421-S     |
| LO_W2                                                                            | S48_LO-W2       | 0.26      | 95.9      | 27.4            | 1.0       | 62.1           | 28422-S     |
| LO_W2                                                                            | S49_LO-W2       | 0.12      | 48.6      | 24.3            | 1.7       | 64.3           | 28432-S     |
| LO_W2                                                                            | S5_LO-W2        | 0.36      | 84.5      | 42.3            | 1.3       | 61.1           | 28334-S     |
| LO_W2                                                                            | S50_LO-W2       | 0.08      | 40.1      | 20.1            | 1.1       | 71.3           | 28433-S     |
| LO_W2                                                                            | S51_LO-W2       | 0.65      | 93.9      | 69.7            | 0.5       | 55.4           | J12         |
| LO_W2                                                                            | S52_LO-W2       | 0.80      | 126.2     | 63.1            | 0.6       | 55.0           | J13         |
| LO_W2                                                                            | S53_LO-W2       | 0.51      | 100.7     | 50.4            | 0.6       | 66.8           | J14         |
| LO_W2                                                                            | S55_LO-W2       | 0.33      | 80.9      | 40.4            | 2.1       | 59.3           | 28333-S     |



| PCSWMM Model Components - Future Intensification Conditions Subcatchment Details |                 |           |           |                 |           |                |             |
|----------------------------------------------------------------------------------|-----------------|-----------|-----------|-----------------|-----------|----------------|-------------|
| Network                                                                          | Subcatchment ID | Area (ha) | Width (m) | Flow Length (m) | Slope (%) | Impervious (%) | Outlet Node |
| LO_W2                                                                            | S56_LO-W2       | 0.57      | 107.1     | 53.5            | 0.7       | 57.5           | 28393-S     |
| LO_W2                                                                            | S57_LO-W2       | 1.24      | 112.3     | 110.0           | 0.9       | 57.7           | 28394-S     |
| LO_W2                                                                            | S58_LO-W2       | 0.62      | 80.2      | 77.1            | 0.5       | 58.5           | 28395-S     |
| LO_W2                                                                            | S59_LO-W2       | 0.36      | 66.4      | 54.2            | 1.6       | 66.3           | 28396-S     |
| LO_W2                                                                            | S6_LO-W2        | 0.35      | 83.7      | 41.9            | 1.4       | 61.1           | 28405-S     |
| LO_W2                                                                            | S60_LO-W2       | 0.19      | 61.5      | 30.7            | 1.1       | 70.0           | 28399-S     |
| LO_W2                                                                            | S61_LO-W2       | 0.27      | 73.1      | 36.6            | 2.0       | 66.6           | J1          |
| LO_W2                                                                            | S62_LO-W2       | 0.14      | 52.3      | 26.2            | 3.6       | 64.9           | J2          |
| LO_W2                                                                            | S63_LO-W2       | 0.52      | 104.5     | 49.3            | 1.1       | 65.3           | 28397-S     |
| LO_W2                                                                            | S64_LO-W2       | 0.23      | 67.6      | 33.9            | 3.1       | 66.5           | 28401-S     |
| LO_W2                                                                            | S65_LO-W2       | 0.05      | 23.8      | 20.0            | 0.5       | 69.6           | 28434-S     |
| LO_W2                                                                            | S66_LO-W2       | 0.29      | 73.9      | 38.8            | 1.3       | 79.3           | 21446-S     |
| LO_W2                                                                            | S67_LO-W2       | 0.27      | 73.0      | 36.4            | 0.6       | 80.8           | 28403-S     |
| LO_W2                                                                            | S68_LO-W2       | 0.13      | 51.8      | 25.8            | 0.9       | 76.6           | 21443-S     |
| LO_W2                                                                            | S69_LO-W2       | 0.97      | 139.2     | 69.6            | 0.6       | 82.6           | 21448-S     |
| LO_W2                                                                            | S7_LO-W2        | 0.23      | 54.4      | 42.4            | 0.5       | 60.7           | 28406-S     |
| LO_W2                                                                            | S70_LO-W2       | 0.77      | 123.8     | 61.9            | 1.0       | 61.2           | 21449-S     |
| LO_W2                                                                            | S71_LO-W2       | 0.68      | 116.7     | 58.3            | 1.5       | 57.4           | 21449-S     |
| LO_W2                                                                            | S72_LO-W2       | 0.66      | 114.9     | 57.4            | 0.5       | 59.3           | 21450-S     |
| LO_W2                                                                            | S73_LO-W2       | 0.35      | 83.3      | 41.6            | 0.7       | 61.4           | 20693-S     |
| LO_W2                                                                            | S74_LO-W2       | 0.06      | 27.7      | 20.5            | 0.7       | 77.5           | 28400-S     |
| LO_W2                                                                            | S75_LO-W2       | 0.44      | 93.6      | 46.9            | 4.2       | 61.9           | 21454-S     |
| LO_W2                                                                            | S76_LO-W2       | 0.31      | 79.0      | 39.6            | 1.6       | 59.2           | 21453-S     |
| LO_W2                                                                            | S77_LO-W2       | 0.44      | 93.7      | 46.8            | 0.5       | 59.5           | 21452-S     |
| LO_W2                                                                            | S78_LO-W2       | 0.81      | 126.9     | 63.5            | 1.1       | 55.0           | 21451-S     |
| LO_W2                                                                            | S79_LO-W2       | 0.44      | 93.6      | 46.7            | 1.2       | 60.8           | 21451-S     |
| LO_W2                                                                            | S8_LO-W2        | 0.20      | 62.8      | 31.4            | 0.5       | 63.3           | 28407-S     |
| LO_W2                                                                            | S80_LO-W2       | 0.53      | 102.9     | 51.5            | 0.5       | 61.0           | 20694-S     |
| LO_W2                                                                            | S81_LO-W2       | 0.30      | 77.6      | 38.7            | 0.8       | 63.6           | 20686-S     |
| LO_W2                                                                            | S82_LO-W2       | 0.37      | 85.7      | 42.9            | 2.4       | 61.8           | 28436-S     |
| LO_W2                                                                            | S83_LO-W2       | 0.20      | 62.7      | 31.3            | 1.0       | 63.2           | 20691-S     |
| LO_W2                                                                            | S84_LO-W2       | 0.14      | 52.7      | 26.4            | 2.0       | 17.4           | 20692-S     |
| LO_W2                                                                            | S9_LO-W2        | 0.17      | 58.8      | 29.3            | 3.2       | 65.8           | 2023102-S   |
| LO_W3                                                                            | S1_LO-W3        | 0.19      | 61.0      | 30.5            | 1.7       | 66.4           | 28786-S     |
| LO_W3                                                                            | S10_LO-W3       | 0.31      | 71.0      | 43.2            | 1.2       | 65.2           | 7452-S      |
| LO_W3                                                                            | S11_LO-W3       | 0.29      | 76.2      | 38.1            | 2.5       | 65.4           | 7445-S      |
| LO_W3                                                                            | S12_LO-W3       | 0.27      | 73.7      | 36.8            | 1.0       | 65.8           | 28863-S     |
| LO_W3                                                                            | S13_LO-W3       | 0.27      | 56.9      | 47.2            | 0.9       | 61.3           | 7453-S      |
| LO_W3                                                                            | S14_LO-W3       | 0.25      | 64.3      | 38.8            | 0.6       | 82.5           | 28856-S     |
| LO_W3                                                                            | S15_LO-W3       | 0.29      | 76.3      | 38.1            | 0.6       | 74.7           | 7447-S      |
| LO_W3                                                                            | S16_LO-W3       | 0.21      | 64.7      | 32.3            | 0.6       | 68.9           | 28864-S     |
| LO_W3                                                                            | S17_LO-W3       | 0.07      | 34.0      | 20.0            | 1.1       | 70.1           | 28862-S     |
| LO_W3                                                                            | S18_LO-W3       | 0.22      | 90.1      | 24.0            | 0.5       | 80.6           | 28866-S     |
| LO_W3                                                                            | S19_LO-W3       | 0.94      | 137.0     | 68.6            | 0.6       | 72.7           | 28867-S     |
| LO_W3                                                                            | S2_LO-W3        | 0.49      | 94.7      | 52.0            | 1.6       | 59.6           | 28785-S     |
| LO_W3                                                                            | S20_LO-W3       | 0.25      | 51.2      | 48.9            | 2.1       | 73.4           | 29343-S     |
| LO_W3                                                                            | S21_LO-W3       | 0.16      | 55.7      | 27.9            | 1.6       | 72.5           | 29340-S     |
| LO_W3                                                                            | S22_LO-W3       | 0.62      | 111.4     | 55.7            | 3.1       | 84.2           | 29341-S     |
| LO_W3                                                                            | S23_LO-W3       | 0.89      | 133.7     | 66.8            | 1.1       | 84.3           | 29342-S     |
| LO_W3                                                                            | S24_LO-W3       | 0.25      | 90.0      | 27.5            | 0.5       | 85.3           | 28864-S     |
| LO_W3                                                                            | S25_LO-W3       | 0.36      | 83.4      | 42.6            | 5.3       | 81.1           | 28821-S     |
| LO_W3                                                                            | S26_LO-W3       | 0.33      | 81.0      | 40.5            | 1.1       | 79.4           | 28823-S     |
| LO_W3                                                                            | S27_LO-W3       | 0.60      | 109.4     | 54.6            | 1.5       | 69.5           | 28839-S     |
| LO_W3                                                                            | S28_LO-W3       | 0.69      | 88.8      | 77.8            | 1.7       | 80.6           | 28816-S     |
| LO_W3                                                                            | S29_LO-W3       | 0.17      | 58.3      | 29.2            | 0.8       | 60.6           | 28817-S     |
| LO_W3                                                                            | S3_LO-W3        | 0.24      | 49.3      | 47.7            | 1.6       | 63.0           | 28806-S     |
| LO_W3                                                                            | S30_LO-W3       | 0.19      | 61.0      | 30.6            | 1.4       | 65.6           | 28819-S     |
| LO_W3                                                                            | S31_LO-W3       | 0.25      | 70.3      | 35.1            | 0.8       | 61.8           | 28818-S     |
| LO_W3                                                                            | S32_LO-W3       | 0.13      | 50.5      | 25.3            | 0.7       | 63.7           | 28854-S     |
| LO_W3                                                                            | S33_LO-W3       | 0.36      | 85.0      | 42.4            | 1.3       | 55.2           | 28827-S     |
| LO_W3                                                                            | S34_LO-W3       | 0.50      | 100.3     | 50.2            | 1.3       | 61.6           | 28826-S     |
| LO_W3                                                                            | S35_LO-W3       | 0.10      | 44.5      | 22.2            | 1.7       | 65.6           | 28820-S     |
| LO_W3                                                                            | S36_LO-W3       | 0.04      | 21.5      | 20.0            | 1.4       | 69.1           | 7448-S      |
| LO_W3                                                                            | S37_LO-W3       | 0.24      | 68.6      | 34.4            | 2.9       | 61.5           | 28853-S     |
| LO_W3                                                                            | S38_LO-W3       | 0.10      | 44.6      | 22.3            | 0.5       | 63.9           | 28827-S     |
| LO_W3                                                                            | S39_LO-W3       | 0.72      | 98.1      | 73.2            | 2.0       | 59.1           | 7150-S      |
| LO_W3                                                                            | S4_LO-W3        | 0.23      | 48.0      | 47.8            | 1.0       | 60.3           | 28865-S     |
| LO_W3                                                                            | S40_LO-W3       | 0.40      | 63.7      | 62.1            | 0.9       | 60.4           | 28790-S     |



| PCSWMM Model Components - Future Intensification Conditions Subcatchment Details |                 |           |           |                 |           |                |             |
|----------------------------------------------------------------------------------|-----------------|-----------|-----------|-----------------|-----------|----------------|-------------|
| Network                                                                          | Subcatchment ID | Area (ha) | Width (m) | Flow Length (m) | Slope (%) | Impervious (%) | Outlet Node |
| LO_W3                                                                            | S41_LO-W3       | 0.15      | 54.2      | 27.1            | 1.1       | 61.8           | 28791-S     |
| LO_W3                                                                            | S42_LO-W3       | 0.04      | 20.0      | 20.0            | 0.6       | 70.0           | 28792-S     |
| LO_W3                                                                            | S43_LO-W3       | 0.24      | 53.8      | 43.7            | 1.5       | 8.5            | 28793-S     |
| LO_W3                                                                            | S44_LO-W3       | 0.04      | 19.0      | 20.0            | 1.3       | 70.0           | 7192-S      |
| LO_W3                                                                            | S45_LO-W3       | 0.08      | 40.9      | 20.4            | 1.1       | 65.3           | 28793-S     |
| LO_W3                                                                            | S46_LO-W3       | 0.10      | 45.1      | 22.5            | 2.1       | 66.3           | 28805-S     |
| LO_W3                                                                            | S47_LO-W3       | 0.05      | 25.4      | 20.0            | 0.8       | 64.8           | 28796-S     |
| LO_W3                                                                            | S48_LO-W3       | 0.04      | 21.7      | 20.0            | 1.5       | 68.3           | 28795-S     |
| LO_W3                                                                            | S5_LO-W3        | 0.44      | 90.8      | 48.6            | 1.2       | 58.8           | 28807-S     |
| LO_W3                                                                            | S50_LO-W3       | 0.62      | 111.0     | 55.5            | 1.1       | 58.6           | 7150-S      |
| LO_W3                                                                            | S51_LO-W3       | 0.27      | 91.4      | 29.9            | 0.6       | 62.3           | 7150-S      |
| LO_W3                                                                            | S52_LO-W3       | 0.19      | 47.5      | 40.6            | 0.7       | 35.6           | J20         |
| LO_W3                                                                            | S53_LO-W3       | 0.69      | 117.5     | 58.7            | 3.1       | 52.3           | J20         |
| LO_W3                                                                            | S6_LO-W3        | 0.10      | 44.0      | 22.0            | 0.9       | 63.3           | 28813-S     |
| LO_W3                                                                            | S7_LO-W3        | 0.18      | 60.0      | 30.1            | 5.8       | 64.2           | 28812-S     |
| LO_W3                                                                            | S8_LO-W3        | 0.42      | 94.8      | 44.8            | 0.6       | 62.0           | 7450-S      |
| LO_W3                                                                            | S9_LO-W3        | 0.40      | 76.1      | 52.7            | 0.6       | 58.1           | 7451-S      |
| TC1                                                                              | S1_TC1          | 0.63      | 112.5     | 56.2            | 2.1       | 53.9           | 2001968-S   |
| TC1                                                                              | S10_TC1         | 0.87      | 131.5     | 65.8            | 1.4       | 55.0           | J54         |
| TC1                                                                              | S11_TC1         | 0.51      | 101.0     | 50.4            | 1.4       | 55.0           | J57         |
| TC1                                                                              | S12_TC1         | 0.73      | 121.1     | 60.6            | 1.3       | 60.7           | 25742-S     |
| TC1                                                                              | S13_TC1         | 0.71      | 119.1     | 59.6            | 2.9       | 55.0           | J56         |
| TC1                                                                              | S14_TC1         | 0.92      | 135.2     | 67.7            | 3.2       | 55.0           | J59         |
| TC1                                                                              | S15_TC1         | 0.79      | 125.6     | 62.7            | 2.6       | 60.7           | 2001963-S   |
| TC1                                                                              | S16_TC1         | 0.62      | 111.7     | 55.8            | 5.0       | 55.0           | J58         |
| TC1                                                                              | S17_TC1         | 0.92      | 135.5     | 67.7            | 2.3       | 55.5           | J61         |
| TC1                                                                              | S18_TC1         | 0.59      | 109.1     | 54.5            | 5.2       | 55.1           | J60         |
| TC1                                                                              | S19_TC1         | 0.52      | 101.7     | 50.8            | 1.3       | 65.3           | 25744-S     |
| TC1                                                                              | S2_TC1          | 0.37      | 86.5      | 43.2            | 4.3       | 6.0            | 2001965-S   |
| TC1                                                                              | S20_TC1         | 0.73      | 121.2     | 60.6            | 3.5       | 62.9           | 25743       |
| TC1                                                                              | S21_TC1         | 0.62      | 111.6     | 55.9            | 1.2       | 62.6           | 25743-S     |
| TC1                                                                              | S22_TC1         | 0.38      | 87.3      | 43.6            | 1.6       | 67.2           | 2001964-S   |
| TC1                                                                              | S23_TC1         | 0.27      | 73.6      | 36.7            | 1.8       | 63.7           | J64         |
| TC1                                                                              | S3_TC1          | 0.34      | 62.7      | 54.9            | 5.9       | 25.2           | 2001965-S   |
| TC1                                                                              | S4_TC1          | 0.58      | 107.5     | 53.8            | 2.0       | 38.7           | 26377-S     |
| TC1                                                                              | S5_TC1          | 1.38      | 166.1     | 83.1            | 3.1       | 42.8           | 26378-S     |
| TC1                                                                              | S6_TC1          | 0.54      | 104.1     | 52.0            | 1.3       | 51.4           | 25745-S     |
| TC1                                                                              | S7_TC1          | 0.34      | 82.8      | 41.3            | 10.0      | 55.0           | 25745-S     |
| TC1                                                                              | S8_TC1          | 0.52      | 101.7     | 50.9            | 2.2       | 60.5           | 25741-S     |
| TC1                                                                              | S9_TC1          | 1.51      | 202.7     | 74.6            | 2.1       | 55.0           | J55         |