

APPENDIX F. AVGWLF Model Output

GWLF Total Loads for littleneshold

Period of analysis: 20 years, from Apr 1975 to Mar 1995

| Source | (Ha) Area | (cm) Runoff | Mg (1000 Kg) | | Total Loads (Kg) | | | |
|----------------------|--------------|----------------|---------------|---------------|-------------------|------------------|-----------------|-----------------|
| | | | Erosion | Sediment | Dis. Nitr. | Tot. Nitr. | Dis. Phos. | Tot. Phos. |
| HAY/PAST | 1104 | 7.32 | 192.28 | 21.34 | 2136.37 | 2200.39 | 242.49 | 255.76 |
| CROPLAND | 3235 | 12.41 | 5248.78 | 582.61 | 10624.63 | 12372.47 | 1202.79 | 1565.18 |
| CONIF_FOR | 120 | 6.3 | 0.98 | 0.11 | 14.35 | 14.68 | 0.45 | 0.52 |
| MIXED_FOR | 774 | 6.3 | 9.18 | 1.02 | 92.58 | 95.63 | 2.92 | 3.56 |
| DECID_FOR | 2802 | 6.3 | 42.92 | 4.76 | 335.14 | 349.43 | 10.58 | 13.55 |
| UNPAVED_RD | 3 | 18.6 | 13.41 | 1.49 | 16.19 | 20.65 | 1.12 | 2.04 |
| TRANSITION | 7 | 18.6 | 16.3 | 1.81 | 37.77 | 43.19 | 2.6 | 3.73 |
| LO_INT_DEV | 2284 | 13.42 | 521.6 | 57.9 | 0.0 | 634.48 | 0.0 | 84.6 |
| HI_INT_DEV | 712 | 32.8 | 121.38 | 13.47 | 0.0 | 642.66 | 0.0 | 71.26 |
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| | | | | | | | | |
| Stream Bank | | | | 2807.3 | | 4210.9 | | 873.1 |
| Groundwater | | | | | 40800.25 | 40800.25 | 2006.28 | 2006.28 |
| Point Sources | | | | | 117864 | 117864 | 13426 | 13426 |
| Septic Syst. | | | | | 9828.23 | 9828.23 | 95.42 | 95.42 |
| Totals | 11041 | 11.4 | 6166.8 | 3491.8 | 181749.49 | 189076.99 | 16990.65 | 18400.96 |

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Model Output for Little Neshaminy, Year 1992 Land Use Conditions

GWLF Total Loads for littleneshnew

Period of analysis: 20 years, from Apr 1975 to Mar 1995

| Source | (Ha) Area | (cm) Runoff | Mg (1000 Kg) | | Total Loads (Kg) | | | |
|----------------------|--------------|----------------|---------------|---------------|-------------------|------------------|-----------------|-----------------|
| | | | Erosion | Sediment | Dis. Nitr. | Tot. Nitr. | Dis. Phos. | Tot. Phos. |
| HAY/PAST | 1037 | 7.32 | 177.36 | 19.69 | 2006.71 | 2065.78 | 227.77 | 240.02 |
| CROPLAND | 2795 | 12.41 | 4298.23 | 477.1 | 9179.55 | 10610.86 | 1039.2 | 1335.95 |
| CONIF_FOR | 119 | 6.3 | 0.98 | 0.11 | 14.23 | 14.56 | 0.45 | 0.52 |
| MIXED_FOR | 771 | 6.3 | 9.17 | 1.02 | 92.22 | 95.27 | 2.91 | 3.55 |
| DECID_FOR | 2686 | 6.3 | 41.28 | 4.58 | 321.26 | 335.01 | 10.15 | 12.99 |
| UNPAVED_RD | 3 | 18.6 | 13.47 | 1.49 | 16.19 | 20.67 | 1.12 | 2.05 |
| TRANSITION | 479 | 18.6 | 3372.54 | 374.35 | 2584.37 | 3707.42 | 178.23 | 411.08 |
| LO_INT_DEV | 2385 | 13.42 | 555.32 | 61.64 | 0.0 | 705.36 | 0.0 | 94.05 |
| HI_INT_DEV | 728 | 32.8 | 126.28 | 14.02 | 0.0 | 683.63 | 0.0 | 75.81 |
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| | | | | | | | | |
| Stream Bank | | | | 2837.4 | | 4256.1 | | 882.4 |
| Groundwater | | | | | 40992.16 | 40992.16 | 2015.72 | 2015.72 |
| Point Sources | | | | | 117864 | 117864 | 13426 | 13426 |
| Septic Syst. | | | | | 9828.23 | 9828.23 | 95.42 | 95.42 |
| Totals | 11003 | 11.8 | 8594.6 | 3791.4 | 182898.91 | 191179.01 | 16396.95 | 18595.57 |

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Model Output for Little Neshaminy, Year 2000 Land Use Conditions

GWLF Total Loads for pinerunold

Period of analysis: 20 years, from Apr 1975 to Mar 1995

| Source | (Ha) Area | (cm) Runoff | Mg (1000 Kg) | | Total Loads (Kg) | | | |
|----------------------|--------------|----------------|--------------|----------|-------------------|------------|------------|------------|
| | | | Erosion | Sediment | Dis. Nitr. | Tot. Nitr. | Dis. Phos. | Tot. Phos. |
| HAY/PAST | 266 | 7.32 | 71.68 | 11.47 | 514.74 | 549.14 | 58.43 | 65.89 |
| CROPLAND | 1220 | 12.41 | 3605.58 | 576.89 | 4006.82 | 5737.49 | 453.6 | 829.16 |
| CONIF_FOR | 35 | 6.3 | 0.31 | 0.05 | 4.19 | 4.33 | 0.13 | 0.16 |
| MIXED_FOR | 251 | 6.3 | 4.89 | 0.78 | 30.02 | 32.37 | 0.95 | 1.46 |
| DECID_FOR | 844 | 6.3 | 23.62 | 3.78 | 100.95 | 112.28 | 3.19 | 5.65 |
| UNPAVED_RD | 1 | 18.6 | 5.15 | 0.82 | 5.4 | 7.87 | 0.37 | 0.91 |
| TRANSITION | 16 | 18.6 | 68.88 | 11.02 | 86.33 | 119.39 | 5.95 | 13.13 |
| LO_INT_DEV | 255 | 13.42 | 43.97 | 7.03 | 0.0 | 8.61 | 0.0 | 1.15 |
| HI_INT_DEV | 86 | 32.8 | 18.12 | 2.9 | 0.0 | 16.7 | 0.0 | 1.85 |
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| | | | | | | | | |
| Stream Bank | | | | 363.8 | | 545.7 | | 118.4 |
| Groundwater | | | | | 11250.02 | 11250.02 | 553.2 | 553.2 |
| Point Sources | | | | | 6 | 6 | 0 | 0 |
| Septic Syst. | | | | | 5094.12 | 5094.12 | 21.3 | 21.3 |
| Totals | 2974 | 10.3 | 3842.2 | 978.6 | 21098.58 | 23484.01 | 1097.12 | 1612.27 |

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Model Output for Pine Run, Year 1992 Land Use Conditions

GWLF Total Loads for pinerunnew

Period of analysis: 20 years, from Apr 1975 to Mar 1995

| Source | (Ha) Area | (cm) Runoff | Mg (1000 Kg) | | Total Loads (Kg) | | | |
|----------------------|--------------|----------------|--------------|----------|-------------------|------------|------------|------------|
| | | | Erosion | Sediment | Dis. Nitr. | Tot. Nitr. | Dis. Phos. | Tot. Phos. |
| HAY/PAST | 247 | 7.32 | 67.33 | 10.84 | 477.97 | 510.5 | 54.25 | 61.31 |
| CROPLAND | 826 | 12.41 | 2101.63 | 338.36 | 2712.81 | 3727.9 | 307.11 | 527.38 |
| CONIF_FOR | 35 | 6.3 | 0.31 | 0.05 | 4.19 | 4.34 | 0.13 | 0.16 |
| MIXED_FOR | 247 | 6.3 | 4.85 | 0.78 | 29.54 | 31.89 | 0.93 | 1.44 |
| DECID_FOR | 796 | 6.3 | 21.31 | 3.43 | 95.21 | 105.5 | 3.01 | 5.24 |
| UNPAVED_RD | 1 | 18.6 | 5.2 | 0.84 | 5.4 | 7.91 | 0.37 | 0.92 |
| TRANSITION | 448 | 18.6 | 6869.1 | 1105.93 | 2417.11 | 5734.89 | 166.7 | 886.65 |
| LO_INT_DEV | 260 | 13.42 | 45.87 | 7.38 | 0.0 | 9.21 | 0.0 | 1.23 |
| HI_INT_DEV | 89 | 32.8 | 15.83 | 2.55 | 0.0 | 15.2 | 0.0 | 1.69 |
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| | | | | | | | | |
| Stream Bank | | | | 382.4 | | 573.5 | | 124.5 |
| Groundwater | | | | | 11781.85 | 11781.85 | 579.35 | 579.35 |
| Point Sources | | | | | 6 | 6 | 0 | 0 |
| Septic Syst. | | | | | 5094.12 | 5094.12 | 21.3 | 21.3 |
| Totals | 2949 | 11.4 | 9131.4 | 1852.6 | 22624.2 | 27602.84 | 1133.15 | 2211.14 |

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Model Output for Pine Run, Year 2000 Land Use Conditions

GWLF Total Loads for north1subold

Period of analysis: 20 years, from Apr 1975 to Mar 1995

| Source | (Ha) Area | (cm) Runoff | Mg (1000 Kg) | | Total Loads (Kg) | | | |
|----------------------|--------------|----------------|--------------|----------|-------------------|------------|------------|------------|
| | | | Erosion | Sediment | Dis. Nitr. | Tot. Nitr. | Dis. Phos. | Tot. Phos. |
| HAY/PAST | 13 | 8.83 | 1.76 | 0.33 | 30.25 | 31.25 | 3.49 | 3.64 |
| CROPLAND | 26 | 14.92 | 30.43 | 5.75 | 102.42 | 119.68 | 11.72 | 14.34 |
| CONIF_FOR | 4 | 7.61 | 0.03 | 0.0 | 0.58 | 0.59 | 0.02 | 0.02 |
| MIXED_FOR | 41 | 7.61 | 0.52 | 0.1 | 5.93 | 6.23 | 0.19 | 0.23 |
| DECID_FOR | 61 | 7.61 | 0.72 | 0.14 | 8.83 | 9.23 | 0.28 | 0.34 |
| LO_INT_DEV | 313 | 16.13 | 92.02 | 17.39 | 0.0 | 32.82 | 0.0 | 4.38 |
| HI_INT_DEV | 174 | 38.59 | 46.27 | 8.75 | 0.0 | 118.86 | 0.0 | 13.18 |
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| | | | | | | | | |
| Stream Bank | | | | 32.4 | | 48.7 | | 7.4 |
| Groundwater | | | | | 2338.74 | 2338.74 | 115.0 | 115.0 |
| Point Sources | | | | | 12918.72 | 12918.72 | 2534.256 | 2534.256 |
| Septic Syst. | | | | | 235.88 | 235.88 | 1.7 | 1.7 |
| Totals | 632 | 20.7 | 171.8 | 64.9 | 15641.35 | 15860.67 | 2666.65 | 2694.49 |

Model Output for Sub-Basin #1 of West Branch Neshaminy, Year 1992 Land Use Conditions

GWLF Total Loads for north1subnew

Period of analysis: 20 years, from Apr 1975 to Mar 1995

| Source | (Ha) Area | (cm) Runoff | Mg (1000 Kg) | | Total Loads (Kg) | | | |
|----------------------|--------------|----------------|--------------|----------|-------------------|------------|------------|------------|
| | | | Erosion | Sediment | Dis. Nitr. | Tot. Nitr. | Dis. Phos. | Tot. Phos. |
| HAY/PAST | 13 | 8.83 | 1.77 | 0.34 | 30.25 | 31.26 | 3.49 | 3.64 |
| CROPLAND | 23 | 14.92 | 27.0 | 5.1 | 90.6 | 105.91 | 10.36 | 12.69 |
| CONIF_FOR | 4 | 7.61 | 0.03 | 0.0 | 0.58 | 0.59 | 0.02 | 0.02 |
| MIXED_FOR | 41 | 7.61 | 0.53 | 0.1 | 5.93 | 6.23 | 0.19 | 0.23 |
| DECID_FOR | 42 | 7.61 | 0.47 | 0.09 | 6.08 | 6.34 | 0.19 | 0.23 |
| TRANSITION | 28 | 22.27 | 165.5 | 31.28 | 180.86 | 274.7 | 12.47 | 26.74 |
| LO_INT_DEV | 305 | 16.13 | 90.25 | 17.06 | 0.0 | 31.37 | 0.0 | 4.18 |
| HI_INT_DEV | 172 | 38.59 | 45.89 | 8.67 | 0.0 | 116.51 | 0.0 | 12.92 |
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| Stream Bank | | | | 32.8 | | 49.3 | | 7.5 |
| Groundwater | | | | | 2366.59 | 2366.59 | 116.37 | 116.37 |
| Point Sources | | | | | 12918.72 | 12918.72 | 2534.256 | 2534.256 |
| Septic Syst. | | | | | 235.88 | 235.88 | 1.7 | 1.7 |
| Totals | 628 | 21.2 | 331.4 | 95.4 | 15835.49 | 16143.35 | 2679.06 | 2720.48 |

Model Output for Sub-Basin #1 of West Branch Neshaminy, Year 2000 Land Use Conditions

GWLF Total Loads for north3subas

Period of analysis: 20 years, from Apr 1975 to Mar 1995

| Source | (Ha) Area | (cm) Runoff | Mg (1000 Kg) | | Total Loads [Kg] | | | |
|----------------------|--------------|----------------|--------------|----------|-------------------|------------|------------|------------|
| | | | Erosion | Sediment | Dis. Nitr. | Tot. Nitr. | Dis. Phos. | Tot. Phos. |
| HAY/PAST | 81 | 7.32 | 17.48 | 3.22 | 156.74 | 166.39 | 17.79 | 19.91 |
| CROPLAND | 441 | 12.41 | 1738.62 | 319.91 | 1448.37 | 2408.08 | 163.97 | 374.46 |
| CONIF_FOR | 11 | 6.3 | 0.11 | 0.02 | 1.32 | 1.38 | 0.04 | 0.06 |
| MIXED_FOR | 96 | 6.3 | 1.95 | 0.36 | 11.48 | 12.56 | 0.36 | 0.6 |
| DECID_FOR | 357 | 6.3 | 10.14 | 1.87 | 42.7 | 48.3 | 1.35 | 2.58 |
| TRANSITION | 3 | 18.6 | 13.67 | 2.51 | 16.19 | 23.73 | 1.12 | 2.77 |
| LO_INT_DEV | 26 | 13.42 | 3.2 | 0.59 | 0.0 | 0.07 | 0.0 | 0.01 |
| HI_INT_DEV | 5 | 32.8 | 0.56 | 0.1 | 0.0 | 0.03 | 0.0 | 0.0 |
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| Stream Bank | | | | 92.9 | | 139.3 | | 30.6 |
| Groundwater | | | | | 4386.28 | 4386.28 | 215.69 | 215.69 |
| Point Sources | | | | | 0 | 0 | 0 | 0 |
| Septic Syst. | | | | | 1055.24 | 1055.24 | 4.26 | 4.26 |
| Totals | 1020 | 9.4 | 1785.7 | 421.5 | 7118.31 | 8241.37 | 404.57 | 650.89 |

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Model Output for Sub-Basin #3 of West Branch Neshaminy

GWLF Total Loads for north3ref1

Period of analysis: 20 years, from Apr 1975 to Mar 1995

| Source | (Ha) Area | (cm) Runoff | Mg (1000 Kg) | | Total Loads [Kg] | | | |
|----------------------|--------------|----------------|--------------|----------|-------------------|------------|------------|------------|
| | | | Erosion | Sediment | Dis. Nitr. | Tot. Nitr. | Dis. Phos. | Tot. Phos. |
| HAY/PAST | 75 | 7.88 | 16.09 | 2.98 | 155.89 | 164.82 | 17.92 | 19.85 |
| CROPLAND | 392 | 13.36 | 798.18 | 147.66 | 1383.79 | 1826.78 | 157.5 | 252.9 |
| CONIF_FOR | 22 | 6.78 | 0.3 | 0.06 | 2.84 | 3.0 | 0.09 | 0.13 |
| MIXED_FOR | 53 | 6.78 | 1.12 | 0.21 | 6.83 | 7.45 | 0.22 | 0.35 |
| DECID_FOR | 435 | 6.78 | 16.23 | 3.0 | 56.06 | 65.07 | 1.77 | 3.71 |
| LO_INT_DEV | 16 | 14.44 | 4.94 | 0.91 | 0.0 | 0.07 | 0.0 | 0.01 |
| HI_INT_DEV | 1 | 35.19 | 0.14 | 0.03 | 0.0 | 0.0 | 0.0 | 0.0 |
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| | | | | | | | | |
| Stream Bank | | | | 64.5 | | 96.7 | | 20.8 |
| Groundwater | | | | | 4789.99 | 4789.99 | 235.54 | 235.54 |
| Point Sources | | | | | 0 | 0 | 0 | 0 |
| Septic Syst. | | | | | 972.48 | 972.48 | 10.22 | 10.22 |
| Totals | 994 | 9.6 | 837.0 | 219.3 | 7367.88 | 7926.34 | 423.27 | 543.51 |

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Model Output of Reference Watershed for Sub-Basin #3 of West Branch Neshaminy

GWLF Total Loads for wbrnch4

Period of analysis: 10 years, from Apr 1989 to Mar 1999

| Source | (in) | | (Tons) | | Total Loads (Pounds) | | | |
|----------------------|--------|--------|----------|----------|----------------------|------------|------------|------------|
| | Area | Runoff | Erosion | Sediment | Dis. Nitr. | Tot. Nitr. | Dis. Phos. | Tot. Phos. |
| HAY/PAST | 840.2 | 2.33 | 151.26 | 22.99 | 1133.09 | 1271.04 | 149.79 | 166.30 |
| CROPLAND | 2982.6 | 4.13 | 12953.99 | 1969.01 | 7096.55 | 18910.60 | 945.25 | 2359.00 |
| CONIF_FOR | 489.3 | 1.98 | 8.87 | 1.35 | 41.80 | 49.89 | 1.32 | 2.29 |
| MIXED_FOR | 407.7 | 1.98 | 6.94 | 1.06 | 34.84 | 41.17 | 1.10 | 1.86 |
| DECID_FOR | 911.8 | 1.98 | 21.52 | 3.27 | 77.91 | 97.54 | 2.46 | 4.81 |
| UNPAVED_RD | 2.5 | 6.34 | 3.50 | 0.53 | 10.30 | 13.49 | 0.71 | 1.09 |
| TRANSITION | 457.1 | 6.34 | 1551.59 | 235.84 | 1906.07 | 3321.12 | 131.45 | 300.79 |
| LO_INT_DEV | 2473.5 | 4.48 | 222.22 | 33.78 | 0.00 | 299.29 | 0.00 | 39.91 |
| HI_INT_DEV | 882.2 | 11.47 | 54.12 | 8.23 | 0.00 | 382.63 | 0.00 | 42.43 |
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| | | | | | | | | |
| Stream Bank | | | | 2653.64 | | 265.36 | | 116.76 |
| Groundwater | | | | | 41376.47 | 41376.47 | 787.16 | 787.16 |
| Point Sources | | | | | 14001.54 | 14001.54 | 1476.56 | 1476.56 |
| Septic Syst. | | | | | 6527.79 | 6527.79 | 54.51 | 54.51 |
| Totals | 9446.8 | 4.40 | 14974.0 | 4929.6 | 72206.37 | 86557.93 | 3550.30 | 5353.46 |

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Model Output for Sub-Basin #4 of West Branch Neshaminy

GWLF Total Loads for Reference

Period of analysis: 10 years, from Apr 1989 to Mar 1999

| Source | (in) | | (Tons) | | Total Loads (Pounds) | | | |
|----------------------|--------|--------|----------|----------|----------------------|------------|------------|------------|
| | Area | Runoff | Erosion | Sediment | Dis. Nitr. | Tot. Nitr. | Dis. Phos. | Tot. Phos. |
| HAY/PAST | 1104.6 | 2.33 | 157.63 | 23.65 | 1489.68 | 1631.55 | 196.94 | 220.72 |
| CROPLAND | 4297.2 | 4.13 | 12808.06 | 1921.21 | 10224.45 | 21751.70 | 1361.89 | 3294.62 |
| CONIF_FOR | 667.2 | 1.98 | 13.95 | 2.09 | 57.00 | 69.56 | 1.80 | 3.91 |
| MIXED_FOR | 753.7 | 1.98 | 22.38 | 3.36 | 64.39 | 84.53 | 2.03 | 5.41 |
| DECID_FOR | 1848.3 | 1.98 | 72.92 | 10.94 | 157.92 | 223.55 | 4.99 | 15.99 |
| UNPAVED_RD | 2.5 | 6.34 | 3.73 | 0.56 | 10.30 | 13.66 | 0.71 | 1.27 |
| QUARRY | 27.2 | 7.63 | 73.93 | 11.09 | 0.56 | 67.10 | 0.09 | 11.25 |
| TRANSITION | 669.7 | 6.34 | 2162.24 | 324.34 | 2792.14 | 4738.15 | 192.56 | 518.84 |
| LO_INT_DEV | 331.1 | 4.48 | 20.72 | 3.11 | 0.00 | 3.69 | 0.00 | 0.49 |
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| Stream Bank | | | | 779.90 | | 77.99 | | 34.32 |
| Groundwater | | | | | 63625.83 | 63625.83 | 540.53 | 540.53 |
| Point Sources | | | | | 0.00 | 0.00 | 0.00 | 0.00 |
| Septic Syst. | | | | | 11247.88 | 11247.88 | 43.23 | 43.23 |
| Totals | 9701.3 | 3.40 | 15335.6 | 3080.2 | 89670.17 | 103535.20 | 2344.77 | 4690.58 |

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Model Output of Reference Watershed for Sub-Basin #4 of West Branch Neshaminy

GWLF Total Loads for neshsouth2old

Period of analysis: 20 years, from Apr 1975 to Mar 1995

| Source | (Ha) Area | (cm) Runoff | Mg (1000 Kg) | | Total Loads (Kg) | | | |
|----------------------|--------------|----------------|--------------|----------|-------------------|------------|------------|------------|
| | | | Erosion | Sediment | Dis. Nitr. | Tot. Nitr. | Dis. Phos. | Tot. Phos. |
| HAY/PAST | 5 | 6.77 | 0.46 | 0.09 | 8.83 | 9.09 | 1.06 | 1.11 |
| CROPLAND | 37 | 11.69 | 86.95 | 16.96 | 113.25 | 164.12 | 13.4 | 22.44 |
| CONIF_FOR | 8 | 2.01 | 0.21 | 0.04 | 0.31 | 0.43 | 0.01 | 0.03 |
| MIXED_FOR | 17 | 5.8 | 0.36 | 0.07 | 1.87 | 2.08 | 0.06 | 0.1 |
| DECID_FOR | 52 | 2.01 | 2.87 | 0.56 | 1.98 | 3.66 | 0.06 | 0.36 |
| LO_INT_DEV | 61 | 9.97 | 25.06 | 4.89 | 0.0 | 1.15 | 0.0 | 0.15 |
| HI_INT_DEV | 7 | 23.57 | 1.29 | 0.25 | 0.0 | 0.1 | 0.0 | 0.01 |
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| | | | | | | | | |
| Stream Bank | | | | 5.4 | | 8.1 | | 1.4 |
| Groundwater | | | | | 717.18 | 717.18 | 35.27 | 35.27 |
| Point Sources | | | | | 0 | 0 | 0 | 0 |
| Septic Syst. | | | | | 99.32 | 99.32 | 0.0 | 0.0 |
| Totals | 187 | 7.8 | 117.2 | 28.3 | 942.73 | 1005.21 | 49.86 | 60.9 |

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Model Output of Neshaminy Creek Tributary #2 Watershed, Year 1992 Land Use Conditions

GWLF Total Loads for neshsouth2

Period of analysis: 20 years, from Apr 1975 to Mar 1995

| Source | (Ha) Area | (cm) Runoff | Mg (1000 Kg) | | Total Loads (Kg) | | | |
|----------------------|--------------|----------------|--------------|----------|-------------------|------------|------------|------------|
| | | | Erosion | Sediment | Dis. Nitr. | Tot. Nitr. | Dis. Phos. | Tot. Phos. |
| HAY/PAST | 3 | 6.77 | 0.25 | 0.05 | 5.3 | 5.44 | 0.64 | 0.66 |
| CROPLAND | 21 | 11.69 | 38.55 | 7.52 | 64.28 | 86.83 | 7.6 | 11.61 |
| CONIF_FOR | 8 | 2.01 | 0.21 | 0.04 | 0.31 | 0.43 | 0.01 | 0.03 |
| MIXED_FOR | 16 | 5.8 | 0.34 | 0.07 | 1.76 | 1.96 | 0.06 | 0.09 |
| DECID_FOR | 49 | 2.01 | 2.73 | 0.53 | 1.87 | 3.46 | 0.06 | 0.34 |
| TRANSITION | 22 | 17.82 | 287.75 | 56.11 | 113.68 | 282.01 | 7.84 | 37.75 |
| LO_INT_DEV | 59 | 9.97 | 24.77 | 4.83 | 0.0 | 1.1 | 0.0 | 0.15 |
| HI_INT_DEV | 7 | 23.57 | 1.31 | 0.25 | 0.0 | 0.1 | 0.0 | 0.01 |
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| | | | | | | | | |
| Stream Bank | | | | 5.6 | | 8.4 | | 1.5 |
| Groundwater | | | | | 738.99 | 738.99 | 36.34 | 36.34 |
| Point Sources | | | | | 0 | 0 | 0 | 0 |
| Septic Syst. | | | | | 99.32 | 99.32 | 0.0 | 0.0 |
| Totals | 185 | 8.7 | 355.9 | 75.0 | 1025.5 | 1228.05 | 52.54 | 88.48 |

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Model Output of Neshaminy Creek Tributary #2 Watershed, Year 2002 Land Use Conditions

GWLF Total Loads for neshMidsub1

Period of analysis: 20 years. from Apr 1975 to Mar 1995

| Source | (Ha) Area | (cm) Runoff | Mg (1000 Kg) | | Total Loads (Kg) | | | |
|----------------------|--------------|----------------|--------------|----------|-------------------|------------|------------|------------|
| | | | Erosion | Sediment | Dis. Nitr. | Tot. Nitr. | Dis. Phos. | Tot. Phos. |
| HAY/PAST | 73 | 7.32 | 19.61 | 3.69 | 141.26 | 152.32 | 16.03 | 18.53 |
| CROPLAND | 338 | 12.41 | 564.83 | 106.19 | 1110.09 | 1428.65 | 125.67 | 197.56 |
| CONIF_FOR | 3 | 6.3 | 0.02 | 0.0 | 0.36 | 0.37 | 0.01 | 0.01 |
| MIXED_FOR | 51 | 6.3 | 0.79 | 0.15 | 6.1 | 6.55 | 0.19 | 0.29 |
| DECID_FOR | 212 | 6.3 | 4.91 | 0.92 | 25.36 | 28.13 | 0.8 | 1.43 |
| LO_INT_DEV | 54 | 13.42 | 10.93 | 2.05 | 0.0 | 0.53 | 0.0 | 0.07 |
| HI_INT_DEV | 22 | 32.8 | 4.03 | 0.76 | 0.0 | 1.12 | 0.0 | 0.12 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Stream Bank | | | | 29.3 | | 43.9 | | 9.9 |
| Groundwater | | | | | 3137.96 | 3137.96 | 154.3 | 154.3 |
| Point Sources | | | | | 2727.756 | 2727.756 | 636 | 636 |
| Septic Syst. | | | | | 612.45 | 612.45 | 8.52 | 8.52 |
| Totals | 753 | 10.4 | 605.1 | 143.1 | 7761.33 | 8139.76 | 941.53 | 1026.75 |

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Model Output of Neshaminy Creek Tributary #3 Watershed

GWLF Total Loads for nemidref

Period of analysis: 20 years. from Apr 1975 to Mar 1995

| Source | (Ha) Area | (cm) Runoff | Mg (1000 Kg) | | Total Loads (Kg) | | | |
|----------------------|--------------|----------------|--------------|----------|-------------------|------------|------------|------------|
| | | | Erosion | Sediment | Dis. Nitr. | Tot. Nitr. | Dis. Phos. | Tot. Phos. |
| HAY/PAST | 88 | 7.32 | 17.26 | 3.28 | 170.29 | 180.13 | 19.33 | 21.61 |
| CROPLAND | 249 | 12.41 | 397.74 | 75.57 | 817.78 | 1044.5 | 92.58 | 145.18 |
| CONIF_FOR | 13 | 6.3 | 0.15 | 0.03 | 1.55 | 1.64 | 0.05 | 0.07 |
| MIXED_FOR | 64 | 6.3 | 1.05 | 0.2 | 7.65 | 8.25 | 0.24 | 0.38 |
| DECID_FOR | 162 | 6.3 | 3.76 | 0.71 | 19.38 | 21.52 | 0.61 | 1.11 |
| UNPAVED_RD | 1 | 18.6 | 3.17 | 0.6 | 5.4 | 7.2 | 0.37 | 0.79 |
| HI_INT_DEV | 4 | 32.8 | 0.46 | 0.09 | 0.0 | 0.02 | 0.0 | 0.0 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Stream Bank | | | | 27.9 | | 41.9 | | 9.7 |
| Groundwater | | | | | 2299.24 | 2299.24 | 113.06 | 113.06 |
| Point Sources | | | | | 0 | 0 | 0 | 0 |
| Septic Syst. | | | | | 537.97 | 537.97 | 2.56 | 2.56 |
| Totals | 581 | 9.3 | 423.6 | 108.4 | 3859.26 | 4142.32 | 228.8 | 294.47 |

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Model Output of Reference Watershed for Neshaminy Creek Tributary #3 Watershed

GWLF Total Loads for Millcreek

Period of analysis: 10 years, from Apr 1989 to Mar 1999

| Source | (in) | | (Tons) | | Total Loads (Pounds) | | | |
|---------------|---------------|-------------|---------------|---------------|----------------------|-----------------|---------------|----------------|
| | Area | Runoff | Erosion | Sediment | Dis. Nitr. | Tot. Nitr. | Dis. Phos. | Tot. Phos. |
| HAY/PAST | 427.5 | 2.33 | 60.72 | 10.99 | 576.54 | 642.49 | 76.22 | 81.76 |
| CROPLAND | 1445.6 | 4.13 | 3940.84 | 713.29 | 3439.51 | 7719.26 | 458.14 | 817.64 |
| CONIF_FDR | 153.2 | 1.98 | 1.74 | 0.31 | 13.09 | 14.97 | 0.41 | 0.57 |
| MIXED_FDR | 180.4 | 1.98 | 1.94 | 0.35 | 15.41 | 17.52 | 0.49 | 0.66 |
| DECID_FDR | 281.7 | 1.98 | 3.42 | 0.62 | 24.07 | 27.78 | 0.76 | 1.07 |
| UNPAVED_RD | 2.5 | 6.34 | 3.42 | 0.62 | 10.30 | 14.02 | 0.71 | 1.02 |
| QUARRY | 27.2 | 7.63 | 27.72 | 5.02 | 0.56 | 30.67 | 0.09 | 2.62 |
| TRANSITION | 180.4 | 6.34 | 414.70 | 75.06 | 752.13 | 1202.49 | 51.87 | 89.70 |
| LO_INT_DEV | 328.6 | 4.48 | 17.19 | 3.11 | 0.00 | 3.66 | 0.00 | 0.49 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Stream Bank | | | | 281.36 | | 28.14 | | 12.38 |
| Groundwater | | | | | 14411.98 | 14411.98 | 200.82 | 200.82 |
| Point Sources | | | | | 0.00 | 0.00 | 0.00 | 0.00 |
| Septic Syst. | | | | | 3533.22 | 3533.22 | 24.43 | 24.43 |
| Totals | 3027.0 | 3.60 | 4471.7 | 1090.8 | 22776.81 | 27646.20 | 813.95 | 1233.17 |

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Model Output for Mill Creek

GWLF Total Loads for Reference

Period of analysis: 10 years, from Apr 1989 to Mar 1999

| Source | (in) | | (Tons) | | Total Loads (Pounds) | | | |
|---------------|---------------|-------------|---------------|--------------|----------------------|-----------------|---------------|----------------|
| | Area | Runoff | Erosion | Sediment | Dis. Nitr. | Tot. Nitr. | Dis. Phos. | Tot. Phos. |
| HAY/PAST | 350.9 | 2.33 | 54.16 | 9.91 | 473.23 | 532.70 | 62.56 | 74.38 |
| CROPLAND | 943.9 | 4.13 | 2709.36 | 495.81 | 2245.97 | 5220.85 | 299.16 | 890.17 |
| CONIF_FDR | 190.3 | 1.98 | 3.95 | 0.72 | 16.26 | 20.59 | 0.51 | 1.37 |
| MIXED_FDR | 202.6 | 1.98 | 4.52 | 0.83 | 17.31 | 22.27 | 0.55 | 1.53 |
| DECID_FDR | 600.5 | 1.98 | 16.70 | 3.06 | 51.30 | 69.64 | 1.62 | 5.26 |
| TRANSITION | 197.7 | 6.34 | 847.66 | 155.12 | 824.25 | 1754.98 | 56.84 | 241.75 |
| LO_INT_DEV | 217.5 | 4.48 | 16.23 | 2.97 | 0.00 | 2.31 | 0.00 | 0.31 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Stream Bank | | | | 106.49 | | 10.65 | | 4.69 |
| Groundwater | | | | | 14566.26 | 14566.26 | 184.96 | 184.96 |
| Point Sources | | | | | 0.00 | 0.00 | 0.00 | 0.00 |
| Septic Syst. | | | | | 4290.99 | 4290.99 | 16.92 | 16.92 |
| Totals | 2703.3 | 3.30 | 3652.6 | 774.9 | 22485.57 | 26491.24 | 623.13 | 1421.34 |

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Model Output of Reference Watershed for Mill Creek

GWLF Total Loads for corecreek

Period of analysis: 20 years, from Apr 1975 to Mar 1995

| Source | (Ha) Area | (cm) Runoff | Mg (1000 Kg) | | Total Loads (Kg) | | | |
|----------------------|--------------|----------------|--------------|----------|-------------------|------------|------------|------------|
| | | | Erosion | Sediment | Dis. Nitr. | Tot. Nitr. | Dis. Phos. | Tot. Phos. |
| HAY/PAST | 387 | 6.77 | 76.63 | 12.72 | 683.23 | 721.39 | 82.16 | 90.9 |
| CROPLAND | 978 | 11.69 | 3124.03 | 518.59 | 2993.39 | 4549.16 | 354.17 | 710.44 |
| CONIF_FOR | 12 | 5.8 | 0.07 | 0.01 | 1.32 | 1.36 | 0.04 | 0.05 |
| MIXED_FOR | 177 | 5.8 | 1.97 | 0.33 | 19.5 | 20.48 | 0.62 | 0.84 |
| DECID_FOR | 414 | 5.8 | 6.11 | 1.01 | 45.61 | 48.65 | 1.44 | 2.14 |
| LD_INT_DEV | 334 | 12.67 | 65.76 | 10.92 | 0.0 | 16.55 | 0.0 | 2.21 |
| HI_INT_DEV | 83 | 32.27 | 12.29 | 2.04 | 0.0 | 11.11 | 0.0 | 1.23 |
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| | | | | | | | | |
| Stream Bank | | | | 258.9 | | 388.3 | | 88.9 |
| Groundwater | | | | | 8271.17 | 8271.17 | 406.72 | 406.72 |
| Point Sources | | | | | 0 | 0 | 0 | 0 |
| Septic Syst. | | | | | 1891.16 | 1891.16 | 6.82 | 6.82 |
| Totals | 2385 | 10.3 | 3286.9 | 804.5 | 13905.39 | 15919.36 | 851.96 | 1310.27 |

Model Output for Core Creek Watershed

GWLF Total Loads for corerefwat

Period of analysis: 20 years, from Apr 1975 to Mar 1995

| Source | (Ha) Area | (cm) Runoff | Mg (1000 Kg) | | Total Loads (Kg) | | | |
|----------------------|--------------|----------------|--------------|----------|-------------------|------------|------------|------------|
| | | | Erosion | Sediment | Dis. Nitr. | Tot. Nitr. | Dis. Phos. | Tot. Phos. |
| HAY/PAST | 188 | 7.88 | 48.39 | 8.23 | 390.76 | 415.44 | 44.93 | 50.37 |
| CROPLAND | 892 | 13.36 | 1944.36 | 330.54 | 3148.83 | 4140.46 | 358.4 | 577.22 |
| CONIF_FOR | 29 | 6.78 | 0.3 | 0.05 | 3.74 | 3.89 | 0.12 | 0.15 |
| MIXED_FOR | 136 | 6.78 | 2.73 | 0.46 | 17.53 | 18.92 | 0.55 | 0.86 |
| DECID_FOR | 833 | 6.78 | 28.19 | 4.79 | 107.36 | 121.73 | 3.39 | 6.56 |
| UNPAVED_RD | 1 | 19.98 | 4.69 | 0.8 | 5.8 | 8.18 | 0.4 | 0.93 |
| LD_INT_DEV | 55 | 14.44 | 12.74 | 2.17 | 0.0 | 0.55 | 0.0 | 0.07 |
| HI_INT_DEV | 8 | 35.19 | 0.75 | 0.13 | 0.0 | 0.07 | 0.0 | 0.01 |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |
| Stream Bank | | | | 252.6 | | 378.8 | | 83.6 |
| Groundwater | | | | | 10136.05 | 10136.05 | 498.42 | 498.42 |
| Point Sources | | | | | 0 | 0 | 0 | 0 |
| Septic Syst. | | | | | 2106.34 | 2106.34 | 22.15 | 22.15 |
| Totals | 2142 | 9.9 | 2042.1 | 599.8 | 15916.41 | 17330.46 | 928.36 | 1240.34 |

Model Output of Reference Watershed for Core Creek Watershed

GWLF Total Loads for Nesh_South1

Period of analysis: 20 years. from Apr 1979 to Mar 1999

| Source | (Acres) | (in) | (Tons) | | Total Loads (Pounds) | | | |
|----------------------|---------|--------|---------|----------|----------------------|------------|------------|------------|
| | Area | Runoff | Erosion | Sediment | Dis. Nitr. | Tot. Nitr. | Dis. Phos. | Tot. Phos. |
| HAY/PAST | 61.8 | 0.85 | 8.83 | 1.52 | 29.90 | 39.02 | 4.21 | 4.85 |
| CROPLAND | 219.9 | 2.26 | 679.76 | 116.92 | 283.03 | 984.54 | 39.45 | 88.56 |
| CONIF_FOR | 269.3 | 0.66 | 6.05 | 1.04 | 7.61 | 13.85 | 0.24 | 0.68 |
| MIXED_FOR | 266.9 | 0.66 | 8.02 | 1.38 | 7.54 | 15.82 | 0.24 | 0.82 |
| DECID_FOR | 699.3 | 0.66 | 25.02 | 4.30 | 19.77 | 45.59 | 0.62 | 2.43 |
| TRANSITION | 126.0 | 4.01 | 459.85 | 79.09 | 331.99 | 806.55 | 22.90 | 56.12 |
| LQ_INT_DEV | 2354.9 | 3.39 | 448.32 | 77.11 | 0.00 | 512.35 | 0.00 | 68.31 |
| HI_INT_DEV | 721.5 | 8.40 | 55.16 | 9.49 | 0.00 | 292.37 | 0.00 | 32.42 |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |
| Stream Bank | | | | 1245.83 | | 124.58 | | 54.82 |
| Groundwater | | | | | 8809.64 | 8809.64 | 239.40 | 239.40 |
| Point Sources | | | | | 0.00 | 0.00 | 0.00 | 0.00 |
| Septic Syst. | | | | | 3304.02 | 3304.02 | 5.64 | 5.64 |
| Totals | 4719.7 | 3.40 | 1691.0 | 1536.7 | 12793.51 | 14948.34 | 312.70 | 554.04 |

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Model Output of Neshaminy Creek South #1 Watershed

GWLF Total Loads for Reference

Period of analysis: 20 years. from Apr 1979 to Mar 1999

| Source | (Acres) | (in) | (Tons) | | Total Loads (Pounds) | | | |
|----------------------|---------|--------|---------|----------|----------------------|------------|------------|------------|
| | Area | Runoff | Erosion | Sediment | Dis. Nitr. | Tot. Nitr. | Dis. Phos. | Tot. Phos. |
| HAY/PAST | 101.3 | 0.85 | 14.88 | 2.53 | 49.04 | 64.22 | 6.91 | 7.97 |
| CROPLAND | 336.1 | 2.26 | 967.74 | 147.51 | 432.49 | 1317.58 | 60.29 | 122.25 |
| CONIF_FOR | 380.5 | 0.66 | 10.66 | 1.81 | 10.76 | 21.64 | 0.34 | 1.10 |
| MIXED_FOR | 264.4 | 0.66 | 6.11 | 1.04 | 7.47 | 13.70 | 0.24 | 0.67 |
| DECID_FOR | 753.7 | 0.66 | 22.28 | 3.79 | 21.31 | 44.03 | 0.67 | 2.26 |
| UNPAVED_RD | 2.5 | 4.01 | 5.65 | 0.96 | 6.51 | 12.28 | 0.45 | 0.85 |
| TRANSITION | 126.0 | 4.01 | 494.92 | 84.14 | 331.99 | 836.80 | 22.90 | 58.23 |
| LQ_INT_DEV | 3076.5 | 4.37 | 650.69 | 110.62 | 0.00 | 1140.00 | 0.00 | 152.00 |
| HI_INT_DEV | 266.9 | 8.40 | 23.95 | 4.07 | 0.00 | 46.40 | 0.00 | 5.15 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Stream Bank | | | | 989.83 | | 98.98 | | 43.55 |
| Groundwater | | | | | 19373.63 | 19373.63 | 312.62 | 312.62 |
| Point Sources | | | | | 0.00 | 0.00 | 0.00 | 0.00 |
| Septic Syst. | | | | | 3705.61 | 3705.61 | 5.64 | 5.64 |
| Totals | 5307.8 | 3.40 | 2096.9 | 1346.3 | 23938.82 | 26674.89 | 410.05 | 712.29 |

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Model Output of Reference Watershed for Neshaminy Creek South #1 Watershed

GWLF Total Loads for Nesh_South3

Period of analysis: 20 years, from Apr 1979 to Mar 1999

| Source | (in) | | (Tons) | | Total Loads (Pounds) | | | |
|----------------------|--------|--------|---------|----------|----------------------|------------|------------|------------|
| | Area | Runoff | Erosion | Sediment | Dis. Nitr. | Tot. Nitr. | Dis. Phos. | Tot. Phos. |
| HAY/PAST | 59.3 | 2.26 | 2.64 | 0.48 | 76.32 | 79.21 | 10.64 | 10.84 |
| CROPLAND | 158.1 | 4.01 | 121.79 | 22.16 | 362.74 | 495.73 | 49.81 | 59.12 |
| CONIF_FOR | 121.1 | 1.92 | 1.15 | 0.21 | 10.02 | 11.28 | 0.32 | 0.40 |
| MIXED_FOR | 123.6 | 1.92 | 0.85 | 0.15 | 10.23 | 11.15 | 0.32 | 0.39 |
| DECID_FOR | 321.2 | 1.92 | 2.77 | 0.50 | 26.59 | 29.62 | 0.84 | 1.05 |
| TRANSITION | 56.8 | 6.25 | 50.90 | 9.26 | 233.61 | 289.19 | 16.11 | 20.00 |
| LO_INT_DEV | 1643.2 | 4.37 | 93.71 | 17.06 | 0.00 | 93.89 | 0.00 | 12.52 |
| HI_INT_DEV | 353.4 | 13.25 | 6.30 | 1.15 | 0.00 | 21.94 | 0.00 | 2.43 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Stream Bank | | | | 656.18 | | 65.62 | | 28.87 |
| Groundwater | | | | | 11991.72 | 11991.72 | 171.70 | 171.70 |
| Point Sources | | | | | 0.00 | 0.00 | 0.00 | 0.00 |
| Septic Syst. | | | | | 1213.91 | 1213.91 | 26.31 | 26.31 |
| Totals | 2836.8 | 5.00 | 280.1 | 707.2 | 13925.15 | 14303.26 | 276.05 | 333.64 |

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Model Output of Neshaminy Creek South #3 Watershed

GWLF Total Loads for Reference

Period of analysis: 20 years, from Apr 1979 to Mar 1999

| Source | (in) | | (Tons) | | Total Loads (Pounds) | | | |
|----------------------|--------|--------|---------|----------|----------------------|------------|------------|------------|
| | Area | Runoff | Erosion | Sediment | Dis. Nitr. | Tot. Nitr. | Dis. Phos. | Tot. Phos. |
| HAY/PAST | 51.9 | 2.26 | 9.57 | 1.76 | 66.78 | 77.34 | 9.31 | 10.05 |
| CROPLAND | 153.2 | 4.01 | 289.75 | 53.31 | 351.40 | 671.28 | 48.26 | 70.65 |
| CONIF_FOR | 103.8 | 1.92 | 1.44 | 0.26 | 8.59 | 10.18 | 0.27 | 0.38 |
| MIXED_FOR | 84.0 | 1.92 | 1.83 | 0.34 | 6.96 | 8.98 | 0.22 | 0.36 |
| DECID_FOR | 328.6 | 1.92 | 6.46 | 1.19 | 27.21 | 34.34 | 0.86 | 1.36 |
| TRANSITION | 64.2 | 6.25 | 198.17 | 36.46 | 264.08 | 482.86 | 18.21 | 33.53 |
| LO_INT_DEV | 1697.6 | 4.37 | 367.20 | 67.56 | 0.00 | 384.23 | 0.00 | 51.23 |
| HI_INT_DEV | 69.2 | 11.71 | 3.23 | 0.59 | 0.00 | 2.10 | 0.00 | 0.23 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Stream Bank | | | | 288.34 | | 28.83 | | 12.69 |
| Groundwater | | | | | 9732.93 | 9732.93 | 147.80 | 147.80 |
| Point Sources | | | | | 0.00 | 0.00 | 0.00 | 0.00 |
| Septic Syst. | | | | | 1989.71 | 1989.71 | 3.76 | 3.76 |
| Totals | 2552.6 | 4.10 | 877.6 | 449.8 | 12447.67 | 13422.78 | 228.69 | 332.03 |

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Model Output of Reference Watershed for Neshaminy Creek South #3 Watershed

APPENDIX G. EMPR Results for Selected Watersheds

| EMPR Worksheet for Phosphorus Allocation (West Branch Sub-basin#3) | | | | | | | | | |
|--|---------------------|---------------------------------|----------|-----------------------|--|------------------------|----------------|----|--|
| Step 1: TMDL Total Load | | | | | Step 2: Adjusted LA = (TMDL total load - MOS) - uncontrollabl | | | | |
| Load = TP loading rate in ref. * Acres in Impaired | | | | | 632 | | | | |
| 1,233 | | | | | | | | | |
| Step 3: | | | | | | | | | |
| | Annual Average Load | Load Sum | Check | Initial Adjust | Recheck | % reduction allocation | Load Reduction | | |
| | Hay/Past. | 44 | 939 | good | 44 | ADJUST | 0.06 | 7 | |
| | Cropland | 827 | bad | bad | 632 | 112 | 0.85 | 95 | |
| | Land dev | 68 | | good | 68 | | 0.09 | 10 | |
| | | | | | 744 | | 1 | | |
| Step 4: All Ag. Loading Rat 0.45 | | | | | | | | | |
| Step 5: | | | | | | | | | |
| | Acres | Allowable (Target) Loading Rate | Final LA | Current Loading Rates | Current Load | % Red. | | | |
| | Final Hay/Past. LA | 200 | 0.19 | 37 | 0.22 | 44 | 15% | | |
| | Final Cropland LA | 1,089 | 0.49 | 537 | 0.76 | 827 | 35% | | |
| | | 187 | 0.31 | 58 | 0.36 | 68 | 15% | | |
| | | | | 632 | | 939 | | | |

| EMPR Worksheet for sediment Allocation, Core Creek Watershed | | | | | | | | |
|--|---------------------|---------------------------------|-----------|-----------------------|----------------|---|----------------|--------|
| Step 1: TMDL Total Load | | | | | Step 2: | Adjusted LA = (TMDL total load - MOS) - uncontrollabl | | |
| Load = TP loading rate in ref. * Acres in Impaired | | | | | | 724,139 | 724,139 | |
| 2,001,827 | | | | | | | | |
| Step 3: | Annual Average Load | Load Sum | Check | Initial Adjust | Recheck | % reduction allocation | Load Reduction | |
| | Hay/Past. | 28,079 | 1,172,869 | good | 28,079 | ADJUST | 0.04 | 1,048 |
| | Cropland | 1,144,790 | | bad | 724,139 | 28,079 | 0.96 | 27,031 |
| | | 1,172,869 | | | 752,218 | | 1 | |
| Step 4: | All Ag. Loading Rat | 214.81 | | | | | | |
| Step 5: | Acres | Allowable (Target) Loading Rate | Final LA | Current Loading Rates | Current Load | % Red. | | |
| | Final Hay/Past. LA | 956 | 28.27 | 27,031 | 29.37 | 28,079 | 4% | |
| | Final Cropland LA | 2,415 | 288.66 | 697,108 | 474.03 | 1,144,790 | 39% | |
| | | 3,371 | | 724,139 | 347.93 | 1,172,869 | 38% | |