



BURNSIDE

Appendix B3

Kenny Drain Hec Ras Modelling

HEC-RAS Plan: Preferred River: Kenny Drain Reach: Reach #1

| Reach | River Sta | Profile | Q Total (m3/s) | Min Ch El (m) | W.S. Elev (m) | Crit W.S. (m) | E.G. Elev (m) | E.G. Slope (m/m) | Vel Chnl (m/s) | Flow Area (m2) | Top Width (m) | Froude # Chl |
|----------|-----------|----------|-------------------|------------------|------------------|------------------|------------------|---------------------|-------------------|-------------------|------------------|--------------|
| Reach #1 | 51 | 2-year | 6.07 | 212.39 | 213.27 | 213.13 | 213.45 | 0.007527 | 1.89 | 3.29 | 5.23 | 0.72 |
| Reach #1 | 51 | 5-year | 8.25 | 212.39 | 213.44 | 213.26 | 213.65 | 0.006545 | 2.04 | 4.24 | 5.69 | 0.69 |
| Reach #1 | 51 | 25-year | 12.36 | 212.39 | 213.72 | 213.48 | 213.97 | 0.005653 | 2.28 | 5.92 | 6.42 | 0.68 |
| Reach #1 | 51 | 100-year | 16.15 | 212.39 | 213.95 | 213.66 | 214.24 | 0.004983 | 2.42 | 7.51 | 7.04 | 0.65 |
| Reach #1 | 51 | Regional | 19.30 | 212.39 | 214.12 | 213.79 | 214.43 | 0.004824 | 2.56 | 8.76 | 8.51 | 0.66 |
| Reach #1 | 50 | 2-year | 6.07 | 211.79 | 212.79 | 212.68 | 213.04 | 0.011902 | 2.23 | 2.72 | 3.57 | 0.82 |
| Reach #1 | 50 | 5-year | 8.25 | 211.79 | 212.97 | 212.85 | 213.27 | 0.011966 | 2.42 | 3.40 | 3.88 | 0.83 |
| Reach #1 | 50 | 25-year | 12.36 | 211.79 | 213.22 | 213.12 | 213.62 | 0.011818 | 2.82 | 4.47 | 4.85 | 0.85 |
| Reach #1 | 50 | 100-year | 16.15 | 211.79 | 213.37 | 213.33 | 213.89 | 0.013044 | 3.22 | 5.24 | 5.47 | 0.92 |
| Reach #1 | 50 | Regional | 19.30 | 211.79 | 213.51 | 213.51 | 214.09 | 0.012847 | 3.43 | 6.03 | 6.05 | 0.93 |
| Reach #1 | 49 | 2-year | 6.07 | 211.16 | 212.03 | 212.03 | 212.38 | 0.018440 | 2.62 | 2.32 | 3.33 | 1.00 |
| Reach #1 | 49 | 5-year | 8.25 | 211.16 | 212.21 | 212.21 | 212.61 | 0.018071 | 2.83 | 2.92 | 3.59 | 1.00 |
| Reach #1 | 49 | 25-year | 12.36 | 211.16 | 212.48 | 212.48 | 212.98 | 0.017609 | 3.12 | 3.97 | 4.01 | 1.00 |
| Reach #1 | 49 | 100-year | 16.15 | 211.16 | 212.76 | 212.70 | 213.26 | 0.015024 | 3.15 | 5.13 | 4.44 | 0.94 |
| Reach #1 | 49 | Regional | 19.30 | 211.16 | 212.98 | 212.86 | 213.48 | 0.013071 | 3.13 | 6.17 | 4.78 | 0.88 |
| Reach #1 | 48 | 2-year | 6.07 | 210.52 | 211.61 | 211.37 | 211.79 | 0.007674 | 1.89 | 3.21 | 3.85 | 0.66 |
| Reach #1 | 48 | 5-year | 8.25 | 210.52 | 211.86 | 211.54 | 212.05 | 0.006626 | 1.95 | 4.24 | 4.27 | 0.62 |
| Reach #1 | 48 | 25-year | 12.36 | 210.52 | 212.28 | 211.80 | 212.49 | 0.005320 | 1.99 | 6.20 | 4.97 | 0.57 |
| Reach #1 | 48 | 100-year | 16.15 | 210.52 | 212.62 | 212.01 | 212.83 | 0.004675 | 2.03 | 7.95 | 5.52 | 0.54 |
| Reach #1 | 48 | Regional | 19.30 | 210.52 | 212.87 | 212.17 | 213.09 | 0.004264 | 2.05 | 9.41 | 5.94 | 0.52 |
| Reach #1 | 47 | 2-year | 6.07 | 209.97 | 210.97 | 210.89 | 211.33 | 0.018586 | 2.64 | 2.30 | 2.56 | 0.89 |
| Reach #1 | 47 | 5-year | 8.25 | 209.97 | 211.15 | 211.09 | 211.60 | 0.020797 | 2.99 | 2.76 | 2.65 | 0.93 |
| Reach #1 | 47 | 25-year | 12.36 | 209.97 | 211.42 | 211.42 | 212.06 | 0.024777 | 3.53 | 3.50 | 2.79 | 1.01 |
| Reach #1 | 47 | 100-year | 16.15 | 209.97 | 211.68 | 211.68 | 212.42 | 0.025353 | 3.80 | 4.25 | 2.93 | 1.01 |
| Reach #1 | 47 | Regional | 19.30 | 209.97 | 211.88 | 211.88 | 212.69 | 0.025749 | 3.98 | 4.85 | 3.03 | 1.00 |
| Reach #1 | 46 | 2-year | 6.07 | 209.39 | 210.38 | 210.28 | 210.66 | 0.013351 | 2.34 | 2.59 | 3.28 | 0.84 |
| Reach #1 | 46 | 5-year | 8.25 | 209.39 | 210.59 | 210.46 | 210.91 | 0.012592 | 2.49 | 3.31 | 3.56 | 0.82 |
| Reach #1 | 46 | 25-year | 12.36 | 209.39 | 210.95 | 210.74 | 211.30 | 0.011219 | 2.65 | 4.67 | 4.04 | 0.79 |
| Reach #1 | 46 | 100-year | 16.15 | 209.39 | 211.24 | 210.96 | 211.62 | 0.010261 | 2.74 | 5.90 | 4.43 | 0.76 |
| Reach #1 | 46 | Regional | 19.30 | 209.39 | 211.46 | 211.13 | 211.86 | 0.009541 | 2.79 | 6.93 | 4.73 | 0.73 |
| Reach #1 | 45 | 2-year | 6.07 | 208.98 | 210.03 | 209.87 | 210.29 | 0.011840 | 2.25 | 2.70 | 3.09 | 0.77 |
| Reach #1 | 45 | 5-year | 8.25 | 208.98 | 210.25 | 210.05 | 210.55 | 0.011528 | 2.41 | 3.42 | 3.30 | 0.76 |
| Reach #1 | 45 | 25-year | 12.36 | 208.98 | 210.64 | 210.35 | 210.98 | 0.010599 | 2.59 | 4.77 | 3.68 | 0.73 |
| Reach #1 | 45 | 100-year | 16.15 | 208.98 | 210.94 | 210.59 | 211.32 | 0.010165 | 2.73 | 5.92 | 3.98 | 0.71 |
| Reach #1 | 45 | Regional | 19.30 | 208.98 | 211.17 | 210.77 | 211.57 | 0.009884 | 2.82 | 6.85 | 4.20 | 0.70 |
| Reach #1 | 44 | 2-year | 6.07 | 208.43 | 209.50 | 209.36 | 209.79 | 0.013951 | 2.39 | 2.54 | 2.79 | 0.80 |
| Reach #1 | 44 | 5-year | 8.25 | 208.43 | 209.75 | 209.55 | 210.07 | 0.013159 | 2.53 | 3.25 | 2.98 | 0.77 |
| Reach #1 | 44 | 25-year | 12.36 | 208.43 | 210.06 | 209.87 | 210.50 | 0.014651 | 2.92 | 4.24 | 3.23 | 0.81 |
| Reach #1 | 44 | 100-year | 16.15 | 208.43 | 210.34 | 210.12 | 210.84 | 0.014907 | 3.13 | 5.16 | 3.44 | 0.82 |
| Reach #1 | 44 | Regional | 19.30 | 208.43 | 210.54 | 210.32 | 211.09 | 0.015121 | 3.29 | 5.87 | 3.60 | 0.82 |
| Reach #1 | 43 | 2-year | 6.07 | 207.78 | 208.87 | 208.73 | 209.15 | 0.013487 | 2.37 | 2.56 | 2.89 | 0.80 |
| Reach #1 | 43 | 5-year | 8.25 | 207.78 | 209.02 | 208.93 | 209.40 | 0.015893 | 2.73 | 3.02 | 3.04 | 0.87 |
| Reach #1 | 43 | 25-year | 12.36 | 207.78 | 209.46 | 209.24 | 209.85 | 0.012788 | 2.78 | 4.44 | 3.47 | 0.78 |
| Reach #1 | 43 | 100-year | 16.15 | 207.78 | 209.70 | 209.48 | 210.17 | 0.013735 | 3.05 | 5.30 | 3.70 | 0.81 |
| Reach #1 | 43 | Regional | 19.30 | 207.78 | 209.86 | 209.67 | 210.40 | 0.014774 | 3.27 | 5.90 | 3.86 | 0.84 |
| Reach #1 | 42 | 2-year | 6.07 | 207.23 | 208.15 | 208.13 | 208.52 | 0.019588 | 2.70 | 2.25 | 2.86 | 0.97 |
| Reach #1 | 42 | 5-year | 8.25 | 207.23 | 208.42 | 208.32 | 208.79 | 0.015412 | 2.69 | 3.07 | 3.10 | 0.86 |
| Reach #1 | 42 | 25-year | 12.36 | 207.23 | 209.26 | 208.62 | 209.48 | 0.005867 | 2.07 | 5.97 | 3.84 | 0.53 |
| Reach #1 | 42 | 100-year | 16.15 | 207.23 | 209.43 | 208.87 | 209.73 | 0.007551 | 2.43 | 6.65 | 4.00 | 0.60 |
| Reach #1 | 42 | Regional | 19.30 | 207.23 | 209.51 | 209.05 | 209.90 | 0.009617 | 2.78 | 6.94 | 4.06 | 0.68 |
| Reach #1 | 41 | 2-year | 6.07 | 206.65 | 207.79 | 207.53 | 207.98 | 0.007945 | 1.94 | 3.14 | 3.54 | 0.66 |
| Reach #1 | 41 | 5-year | 8.25 | 206.65 | 208.31 | 207.71 | 208.44 | 0.003756 | 1.59 | 5.19 | 4.27 | 0.46 |
| Reach #1 | 41 | 25-year | 12.36 | 206.65 | 209.24 | 207.99 | 209.32 | 0.001582 | 1.27 | 9.75 | 5.55 | 0.31 |
| Reach #1 | 41 | 100-year | 16.15 | 206.65 | 209.41 | 208.21 | 209.53 | 0.002100 | 1.51 | 10.72 | 5.79 | 0.35 |
| Reach #1 | 41 | Regional | 19.30 | 206.65 | 209.48 | 208.38 | 209.64 | 0.002717 | 1.73 | 11.13 | 5.89 | 0.40 |
| Reach #1 | 40 | 2-year | 6.75 | 206.00 | 207.85 | 206.49 | 207.87 | 0.000183 | 0.58 | 11.59 | 7.62 | 0.14 |
| Reach #1 | 40 | 5-year | 9.39 | 206.00 | 208.35 | 206.61 | 208.37 | 0.000160 | 0.64 | 14.71 | 7.99 | 0.13 |
| Reach #1 | 40 | 25-year | 14.42 | 206.00 | 209.26 | 206.82 | 209.27 | 0.000188 | 0.59 | 26.44 | 48.74 | 0.11 |
| Reach #1 | 40 | 100-year | 19.01 | 206.00 | 209.44 | 206.98 | 209.46 | 0.000232 | 0.68 | 41.51 | 117.03 | 0.13 |
| Reach #1 | 40 | Regional | 23.03 | 206.00 | 209.52 | 207.11 | 209.55 | 0.000276 | 0.76 | 52.32 | 142.11 | 0.14 |
| Reach #1 | 39.5 | | Culvert | | | | | | | | | |
| Reach #1 | 39 | 2-year | 6.75 | 205.95 | 207.72 | 206.44 | 207.74 | 0.000213 | 0.61 | 11.07 | 9.32 | 0.15 |
| Reach #1 | 39 | 5-year | 9.39 | 205.95 | 208.08 | 206.56 | 208.10 | 0.000223 | 0.70 | 13.32 | 9.94 | 0.15 |
| Reach #1 | 39 | 25-year | 14.42 | 205.95 | 208.60 | 206.77 | 208.64 | 0.000253 | 0.87 | 16.58 | 10.84 | 0.17 |

HEC-RAS Plan: Preferred River: Kenny Drain Reach: Reach #1 (Continued)

| Reach | River Sta | Profile | Q Total (m3/s) | Min Ch El (m) | W.S. Elev (m) | Crit W.S. (m) | E.G. Elev (m) | E.G. Slope (m/m) | Vel Chnl (m/s) | Flow Area (m2) | Top Width (m) | Froude # Chl |
|----------|-----------|----------|-------------------|------------------|------------------|------------------|------------------|---------------------|-------------------|-------------------|------------------|--------------|
| Reach #1 | 39 | 100-year | 19.01 | 205.95 | 208.99 | 206.93 | 209.04 | 0.000278 | 1.00 | 19.03 | 11.52 | 0.18 |
| Reach #1 | 39 | Regional | 23.03 | 205.95 | 209.29 | 207.07 | 209.31 | 0.000261 | 0.75 | 33.84 | 61.31 | 0.15 |
| Reach #1 | 38 | 2-year | 6.75 | 205.74 | 207.51 | 206.93 | 207.86 | 0.005517 | 1.73 | 3.89 | 3.11 | 0.49 |
| Reach #1 | 38 | 5-year | 9.39 | 205.74 | 207.84 | 207.18 | 208.02 | 0.005622 | 1.89 | 4.97 | 3.45 | 0.50 |
| Reach #1 | 38 | 25-year | 14.42 | 205.74 | 208.30 | 207.56 | 208.54 | 0.005503 | 2.17 | 6.74 | 4.44 | 0.51 |
| Reach #1 | 38 | 100-year | 19.01 | 205.74 | 208.65 | 207.86 | 208.93 | 0.005157 | 2.37 | 8.48 | 5.42 | 0.51 |
| Reach #1 | 38 | Regional | 23.03 | 205.74 | 208.85 | 208.07 | 209.18 | 0.005476 | 2.59 | 9.63 | 5.98 | 0.53 |
| Reach #1 | 37 | 2-year | 6.75 | 205.24 | 206.97 | 206.41 | 207.15 | 0.007056 | 1.89 | 3.58 | 2.67 | 0.52 |
| Reach #1 | 37 | 5-year | 9.39 | 205.24 | 207.30 | 206.67 | 207.52 | 0.006563 | 2.09 | 4.59 | 3.51 | 0.52 |
| Reach #1 | 37 | 25-year | 14.42 | 205.24 | 207.76 | 207.08 | 208.05 | 0.006416 | 2.43 | 6.47 | 4.75 | 0.53 |
| Reach #1 | 37 | 100-year | 19.01 | 205.24 | 208.11 | 207.42 | 208.46 | 0.006436 | 2.70 | 8.61 | 11.67 | 0.55 |
| Reach #1 | 37 | Regional | 23.03 | 205.24 | 207.98 | 207.70 | 208.54 | 0.011113 | 3.42 | 7.60 | 5.36 | 0.71 |
| Reach #1 | 36 | 2-year | 6.75 | 204.89 | 206.18 | 206.05 | 206.54 | 0.016716 | 2.64 | 2.56 | 2.54 | 0.84 |
| Reach #1 | 36 | 5-year | 9.39 | 204.89 | 206.32 | 206.30 | 206.85 | 0.023092 | 3.23 | 2.91 | 2.65 | 0.98 |
| Reach #1 | 36 | 25-year | 14.42 | 204.89 | 206.70 | 206.70 | 207.37 | 0.023938 | 3.62 | 3.98 | 2.98 | 1.00 |
| Reach #1 | 36 | 100-year | 19.01 | 204.89 | 206.99 | 206.99 | 207.76 | 0.024543 | 3.90 | 4.87 | 3.23 | 1.01 |
| Reach #1 | 36 | Regional | 23.03 | 204.89 | 207.56 | 207.56 | 207.91 | 0.008612 | 2.85 | 11.61 | 20.96 | 0.63 |
| Reach #1 | 35 | 2-year | 6.75 | 204.50 | 205.31 | 205.31 | 205.58 | 0.012861 | 2.36 | 3.13 | 6.65 | 0.94 |
| Reach #1 | 35 | 5-year | 9.39 | 204.50 | 205.46 | 205.46 | 205.77 | 0.011524 | 2.57 | 4.22 | 7.80 | 0.92 |
| Reach #1 | 35 | 25-year | 14.42 | 204.50 | 205.58 | 205.70 | 206.09 | 0.015847 | 3.31 | 5.23 | 8.73 | 1.10 |
| Reach #1 | 35 | 100-year | 19.01 | 204.50 | 205.66 | 205.87 | 206.36 | 0.019714 | 3.91 | 5.98 | 9.36 | 1.25 |
| Reach #1 | 35 | Regional | 23.03 | 204.50 | 205.61 | 206.01 | 206.82 | 0.036629 | 5.12 | 5.44 | 8.91 | 1.68 |
| Reach #1 | 34 | 2-year | 6.75 | 203.65 | 204.22 | 204.37 | 204.74 | 0.037513 | 3.22 | 2.18 | 5.56 | 1.53 |
| Reach #1 | 34 | 5-year | 9.39 | 203.65 | 204.32 | 204.52 | 204.99 | 0.036807 | 3.64 | 2.76 | 5.99 | 1.57 |
| Reach #1 | 34 | 25-year | 14.42 | 203.65 | 204.55 | 204.76 | 205.28 | 0.025721 | 3.85 | 4.27 | 7.01 | 1.39 |
| Reach #1 | 34 | 100-year | 19.01 | 203.65 | 204.73 | 204.94 | 205.53 | 0.021937 | 4.07 | 5.57 | 7.78 | 1.33 |
| Reach #1 | 34 | Regional | 23.03 | 203.65 | 204.90 | 205.09 | 205.70 | 0.018053 | 4.12 | 6.96 | 8.52 | 1.24 |
| Reach #1 | 33 | 2-year | 6.75 | 201.73 | 202.31 | 202.32 | 202.55 | 0.016024 | 2.20 | 3.39 | 8.84 | 1.02 |
| Reach #1 | 33 | 5-year | 9.39 | 201.73 | 202.40 | 202.44 | 202.71 | 0.016974 | 2.54 | 4.22 | 9.59 | 1.08 |
| Reach #1 | 33 | 25-year | 14.42 | 201.73 | 202.49 | 202.63 | 203.02 | 0.023386 | 3.30 | 5.15 | 10.36 | 1.30 |
| Reach #1 | 33 | 100-year | 19.01 | 201.73 | 202.56 | 202.78 | 203.29 | 0.028176 | 3.88 | 5.91 | 10.95 | 1.45 |
| Reach #1 | 33 | Regional | 23.03 | 201.73 | 202.61 | 202.90 | 203.53 | 0.033749 | 4.41 | 6.39 | 11.31 | 1.60 |
| Reach #1 | 32 | 2-year | 6.75 | 199.85 | 200.43 | 200.49 | 200.70 | 0.028439 | 2.32 | 2.91 | 8.63 | 1.27 |
| Reach #1 | 32 | 5-year | 9.39 | 199.85 | 200.52 | 200.59 | 200.84 | 0.027540 | 2.52 | 3.73 | 9.70 | 1.29 |
| Reach #1 | 32 | 25-year | 14.42 | 199.85 | 200.68 | 200.75 | 201.06 | 0.020380 | 2.73 | 5.43 | 11.43 | 1.17 |
| Reach #1 | 32 | 100-year | 19.01 | 199.85 | 200.80 | 200.87 | 201.23 | 0.018309 | 2.94 | 6.86 | 12.70 | 1.15 |
| Reach #1 | 32 | Regional | 23.03 | 199.85 | 200.90 | 200.97 | 201.37 | 0.016860 | 3.09 | 8.14 | 13.74 | 1.13 |
| Reach #1 | 31 | 2-year | 6.92 | 198.70 | 200.24 | 199.42 | 200.25 | 0.000160 | 0.37 | 36.74 | 111.49 | 0.11 |
| Reach #1 | 31 | 5-year | 9.78 | 198.70 | 200.30 | 199.60 | 200.31 | 0.000235 | 0.46 | 43.71 | 115.76 | 0.14 |
| Reach #1 | 31 | 25-year | 15.28 | 198.70 | 200.41 | 199.91 | 200.42 | 0.000344 | 0.60 | 56.84 | 123.40 | 0.17 |
| Reach #1 | 31 | 100-year | 20.39 | 198.70 | 200.42 | 200.20 | 200.44 | 0.000588 | 0.79 | 57.97 | 124.04 | 0.23 |
| Reach #1 | 31 | Regional | 28.05 | 198.70 | 200.47 | 200.20 | 200.51 | 0.000895 | 1.00 | 64.34 | 127.56 | 0.28 |
| Reach #1 | 30.5 | | Culvert | | | | | | | | | |
| Reach #1 | 30 | 2-year | 6.92 | 198.57 | 199.29 | 199.29 | 199.65 | 0.013449 | 2.65 | 2.61 | 62.19 | 1.00 |
| Reach #1 | 30 | 5-year | 9.78 | 198.57 | 199.47 | 199.47 | 199.92 | 0.012377 | 2.97 | 3.29 | 75.63 | 1.00 |
| Reach #1 | 30 | 25-year | 15.28 | 198.57 | 199.78 | 199.78 | 200.39 | 0.011313 | 3.46 | 4.42 | 93.14 | 1.00 |
| Reach #1 | 30 | 100-year | 20.39 | 198.57 | 200.02 | 200.02 | 200.03 | 0.000175 | 0.44 | 54.60 | 106.23 | 0.13 |
| Reach #1 | 30 | Regional | 28.05 | 198.57 | 200.02 | 200.02 | 200.04 | 0.000330 | 0.61 | 54.60 | 106.23 | 0.17 |
| Reach #1 | 29 | 2-year | 6.92 | 197.39 | 198.07 | 198.13 | 198.31 | 0.017130 | 2.18 | 3.38 | 13.55 | 1.03 |
| Reach #1 | 29 | 5-year | 9.78 | 197.39 | 198.12 | 198.25 | 198.48 | 0.023462 | 2.72 | 4.13 | 18.02 | 1.23 |
| Reach #1 | 29 | 25-year | 15.28 | 197.39 | 198.17 | 198.39 | 198.81 | 0.036875 | 3.66 | 5.30 | 23.37 | 1.57 |
| Reach #1 | 29 | 100-year | 20.39 | 197.39 | 198.14 | 198.48 | 199.55 | 0.087202 | 5.39 | 4.51 | 19.90 | 2.38 |
| Reach #1 | 29 | Regional | 28.05 | 197.39 | 198.25 | 198.57 | 199.56 | 0.067823 | 5.43 | 7.46 | 30.91 | 2.17 |
| Reach #1 | 28 | 2-year | 6.92 | 196.59 | 197.18 | 197.16 | 197.26 | 0.014568 | 1.29 | 6.33 | 37.71 | 0.86 |
| Reach #1 | 28 | 5-year | 9.78 | 196.59 | 197.23 | 197.22 | 197.32 | 0.013565 | 1.42 | 8.42 | 42.59 | 0.85 |
| Reach #1 | 28 | 25-year | 15.28 | 196.59 | 197.31 | 197.30 | 197.43 | 0.013769 | 1.67 | 11.77 | 49.40 | 0.89 |
| Reach #1 | 28 | 100-year | 20.39 | 196.59 | 197.36 | 197.36 | 197.50 | 0.013589 | 1.84 | 14.78 | 54.80 | 0.91 |
| Reach #1 | 28 | Regional | 28.05 | 196.59 | 197.44 | 197.44 | 197.60 | 0.012825 | 2.00 | 19.38 | 62.16 | 0.91 |
| Reach #1 | 27 | 2-year | 6.92 | 195.76 | 196.36 | 196.36 | 196.46 | 0.013847 | 1.91 | 6.61 | 31.47 | 0.92 |
| Reach #1 | 27 | 5-year | 9.78 | 195.76 | 196.41 | 196.41 | 196.53 | 0.014702 | 2.14 | 8.58 | 36.05 | 0.97 |
| Reach #1 | 27 | 25-year | 15.28 | 195.76 | 196.51 | 196.51 | 196.65 | 0.014488 | 2.38 | 12.39 | 43.48 | 0.99 |
| Reach #1 | 27 | 100-year | 20.39 | 195.76 | 196.58 | 196.58 | 196.73 | 0.014704 | 2.58 | 15.44 | 48.01 | 1.01 |
| Reach #1 | 27 | Regional | 28.05 | 195.76 | 196.65 | 196.65 | 196.83 | 0.015692 | 2.86 | 19.30 | 53.18 | 1.06 |

HEC-RAS Plan: Preferred River: Kenny Drain Reach: Reach #1 (Continued)

| Reach | River Sta | Profile | Q Total (m3/s) | Min Ch El (m) | W.S. Elev (m) | Crit W.S. (m) | E.G. Elev (m) | E.G. Slope (m/m) | Vel Chnl (m/s) | Flow Area (m2) | Top Width (m) | Froude # Chl |
|----------|-----------|----------|-------------------|------------------|------------------|------------------|------------------|---------------------|-------------------|-------------------|------------------|--------------|
| Reach #1 | 26 | 2-year | 6.92 | 194.79 | 196.19 | 195.23 | 196.19 | 0.000032 | 0.19 | 70.88 | 93.60 | 0.05 |
| Reach #1 | 26 | 5-year | 9.78 | 194.79 | 196.29 | 195.28 | 196.29 | 0.000044 | 0.24 | 80.44 | 96.71 | 0.06 |
| Reach #1 | 26 | 25-year | 15.28 | 194.79 | 196.40 | 195.35 | 196.40 | 0.000075 | 0.33 | 90.92 | 100.02 | 0.08 |
| Reach #1 | 26 | 100-year | 20.39 | 194.79 | 196.49 | 195.41 | 196.49 | 0.000103 | 0.40 | 100.59 | 115.51 | 0.10 |
| Reach #1 | 26 | Regional | 28.05 | 194.79 | 196.59 | 195.49 | 196.60 | 0.000142 | 0.49 | 113.69 | 133.59 | 0.12 |
| Reach #1 | 25 | 2-year | 6.92 | 194.08 | 196.19 | 194.65 | 196.19 | 0.000001 | 0.04 | 304.27 | 264.93 | 0.01 |
| Reach #1 | 25 | 5-year | 9.78 | 194.08 | 196.29 | 194.69 | 196.29 | 0.000002 | 0.05 | 331.11 | 268.61 | 0.01 |
| Reach #1 | 25 | 25-year | 15.28 | 194.08 | 196.40 | 194.74 | 196.40 | 0.000003 | 0.08 | 360.04 | 272.59 | 0.02 |
| Reach #1 | 25 | 100-year | 20.39 | 194.08 | 196.49 | 194.78 | 196.49 | 0.000004 | 0.09 | 384.79 | 275.95 | 0.02 |
| Reach #1 | 25 | Regional | 28.05 | 194.08 | 196.59 | 194.83 | 196.59 | 0.000006 | 0.12 | 414.14 | 279.66 | 0.03 |
| Reach #1 | 24 | 2-year | 7.34 | 192.86 | 196.19 | 193.80 | 196.19 | 0.000000 | 0.02 | 526.65 | 413.23 | 0.00 |
| Reach #1 | 24 | 5-year | 10.44 | 192.86 | 196.29 | 194.04 | 196.29 | 0.000000 | 0.03 | 550.32 | 418.94 | 0.01 |
| Reach #1 | 24 | 25-year | 16.30 | 192.86 | 196.40 | 194.44 | 196.40 | 0.000001 | 0.05 | 575.70 | 425.00 | 0.01 |
| Reach #1 | 24 | 100-year | 21.76 | 192.86 | 196.49 | 194.77 | 196.49 | 0.000001 | 0.06 | 597.29 | 430.12 | 0.01 |
| Reach #1 | 24 | Regional | 29.80 | 192.86 | 196.59 | 195.20 | 196.59 | 0.000002 | 0.08 | 622.67 | 432.90 | 0.01 |
| Reach #1 | 23.5 | | Culvert | | | | | | | | | |
| Reach #1 | 23 | 2-year | 7.34 | 192.85 | 193.76 | 193.76 | 194.22 | 0.012331 | 2.98 | 2.46 | 91.62 | 1.00 |
| Reach #1 | 23 | 5-year | 10.44 | 192.85 | 194.00 | 194.00 | 194.58 | 0.011444 | 3.36 | 3.11 | 111.63 | 1.00 |
| Reach #1 | 23 | 25-year | 16.30 | 192.85 | 194.40 | 194.40 | 195.17 | 0.010413 | 3.90 | 4.18 | 135.52 | 1.00 |
| Reach #1 | 23 | 100-year | 21.76 | 192.85 | 194.73 | 194.73 | 195.67 | 0.009749 | 4.29 | 5.07 | 153.33 | 1.00 |
| Reach #1 | 23 | Regional | 29.80 | 192.85 | 195.17 | 195.17 | 196.32 | 0.009064 | 4.76 | 6.26 | 180.80 | 1.00 |
| Reach #1 | 22 | 2-year | 7.34 | 191.98 | 192.33 | 192.58 | 193.21 | 0.093898 | 4.28 | 1.86 | 6.25 | 2.34 |
| Reach #1 | 22 | 5-year | 10.44 | 191.98 | 192.40 | 192.72 | 193.57 | 0.096643 | 4.94 | 2.33 | 6.58 | 2.45 |
| Reach #1 | 22 | 25-year | 16.30 | 191.98 | 192.52 | 192.96 | 194.14 | 0.097819 | 5.87 | 3.14 | 7.13 | 2.57 |
| Reach #1 | 22 | 100-year | 21.76 | 191.98 | 192.61 | 193.14 | 194.61 | 0.098407 | 6.56 | 3.83 | 7.56 | 2.65 |
| Reach #1 | 22 | Regional | 29.80 | 191.98 | 192.73 | 193.39 | 195.22 | 0.099072 | 7.39 | 4.76 | 8.11 | 2.73 |
| Reach #1 | 21 | 2-year | 7.34 | 190.87 | 191.76 | 191.76 | 192.08 | 0.016488 | 2.52 | 2.92 | 4.57 | 1.01 |
| Reach #1 | 21 | 5-year | 10.44 | 190.87 | 191.95 | 191.95 | 192.32 | 0.015745 | 2.72 | 3.83 | 5.12 | 1.00 |
| Reach #1 | 21 | 25-year | 16.30 | 190.87 | 192.23 | 192.23 | 192.70 | 0.013361 | 3.05 | 5.45 | 6.48 | 0.97 |
| Reach #1 | 21 | 100-year | 21.76 | 190.87 | 192.41 | 192.46 | 193.00 | 0.013617 | 3.43 | 6.68 | 7.42 | 1.01 |
| Reach #1 | 21 | Regional | 29.80 | 190.87 | 192.57 | 192.74 | 193.39 | 0.015837 | 4.05 | 8.01 | 8.32 | 1.11 |
| Reach #1 | 20 | 2-year | 7.34 | 189.60 | 191.26 | 190.46 | 191.30 | 0.001677 | 0.86 | 8.50 | 8.39 | 0.27 |
| Reach #1 | 20 | 5-year | 10.44 | 189.60 | 191.41 | 190.63 | 191.47 | 0.002311 | 1.06 | 9.81 | 8.98 | 0.33 |
| Reach #1 | 20 | 25-year | 16.30 | 189.60 | 191.66 | 190.90 | 191.75 | 0.003180 | 1.34 | 12.14 | 9.95 | 0.39 |
| Reach #1 | 20 | 100-year | 21.76 | 189.60 | 191.84 | 191.10 | 191.96 | 0.003819 | 1.55 | 14.07 | 10.69 | 0.43 |
| Reach #1 | 20 | Regional | 29.80 | 189.60 | 192.01 | 191.35 | 192.19 | 0.004847 | 1.88 | 15.88 | 11.32 | 0.49 |
| Reach #1 | 19.5 | | Inl Struct | | | | | | | | | |
| Reach #1 | 19 | 2-year | 7.34 | 189.25 | 190.36 | 190.11 | 190.50 | 0.009618 | 1.67 | 4.41 | 6.04 | 0.62 |
| Reach #1 | 19 | 5-year | 10.44 | 189.25 | 190.55 | 190.29 | 190.73 | 0.009982 | 1.85 | 5.64 | 6.75 | 0.65 |
| Reach #1 | 19 | 25-year | 16.30 | 189.25 | 190.84 | 190.55 | 191.07 | 0.010421 | 2.11 | 7.73 | 7.82 | 0.68 |
| Reach #1 | 19 | 100-year | 21.76 | 189.25 | 191.05 | 190.76 | 191.32 | 0.010707 | 2.29 | 9.49 | 8.62 | 0.70 |
| Reach #1 | 19 | Regional | 29.80 | 189.25 | 191.31 | 191.01 | 191.63 | 0.011067 | 2.51 | 11.85 | 9.58 | 0.72 |
| Reach #1 | 18 | 2-year | 7.34 | 189.01 | 189.85 | 189.85 | 190.15 | 0.026611 | 2.40 | 3.06 | 5.25 | 1.01 |
| Reach #1 | 18 | 5-year | 10.44 | 189.01 | 190.03 | 190.03 | 190.37 | 0.025509 | 2.60 | 4.02 | 5.92 | 1.01 |
| Reach #1 | 18 | 25-year | 16.30 | 189.01 | 190.29 | 190.29 | 190.70 | 0.024168 | 2.86 | 5.69 | 6.93 | 1.01 |
| Reach #1 | 18 | 100-year | 21.76 | 189.01 | 190.49 | 190.49 | 190.96 | 0.023318 | 3.04 | 7.15 | 7.70 | 1.01 |
| Reach #1 | 18 | Regional | 29.80 | 189.01 | 190.74 | 190.74 | 191.27 | 0.022197 | 3.24 | 9.20 | 8.67 | 1.00 |
| Reach #1 | 17 | 2-year | 7.34 | 188.55 | 189.30 | 189.17 | 189.41 | 0.010035 | 1.42 | 5.26 | 11.60 | 0.63 |
| Reach #1 | 17 | 5-year | 10.44 | 188.55 | 189.42 | 189.27 | 189.55 | 0.009811 | 1.62 | 6.73 | 12.89 | 0.65 |
| Reach #1 | 17 | 25-year | 16.30 | 188.55 | 189.61 | 189.45 | 189.78 | 0.009563 | 1.89 | 9.30 | 14.88 | 0.67 |
| Reach #1 | 17 | 100-year | 21.76 | 188.55 | 189.75 | 189.59 | 189.96 | 0.009454 | 2.09 | 11.53 | 16.40 | 0.68 |
| Reach #1 | 17 | Regional | 29.80 | 188.55 | 189.93 | 189.76 | 190.18 | 0.009336 | 2.33 | 14.59 | 18.00 | 0.70 |
| Reach #1 | 16 | 2-year | 7.34 | 188.18 | 188.99 | 188.83 | 189.09 | 0.009297 | 1.41 | 5.30 | 11.10 | 0.61 |
| Reach #1 | 16 | 5-year | 10.44 | 188.18 | 189.11 | 188.94 | 189.24 | 0.009333 | 1.61 | 6.72 | 12.46 | 0.63 |
| Reach #1 | 16 | 25-year | 16.30 | 188.18 | 189.29 | 189.13 | 189.47 | 0.009360 | 1.90 | 9.23 | 14.55 | 0.66 |
| Reach #1 | 16 | 100-year | 21.76 | 188.18 | 189.44 | 189.27 | 189.65 | 0.009189 | 2.10 | 11.50 | 16.21 | 0.67 |
| Reach #1 | 16 | Regional | 29.80 | 188.18 | 189.63 | 189.45 | 189.88 | 0.008730 | 2.31 | 14.82 | 18.00 | 0.68 |
| Reach #1 | 15 | 2-year | 7.34 | 187.76 | 188.57 | 188.44 | 188.69 | 0.012177 | 1.52 | 4.83 | 9.72 | 0.69 |
| Reach #1 | 15 | 5-year | 10.44 | 187.76 | 188.71 | 188.56 | 188.86 | 0.011381 | 1.67 | 6.27 | 10.99 | 0.69 |
| Reach #1 | 15 | 25-year | 16.30 | 187.76 | 188.91 | 188.75 | 189.10 | 0.010494 | 1.94 | 8.63 | 12.76 | 0.69 |
| Reach #1 | 15 | 100-year | 21.76 | 187.76 | 189.07 | 188.89 | 189.30 | 0.009974 | 2.13 | 10.75 | 14.16 | 0.70 |
| Reach #1 | 15 | Regional | 29.80 | 187.76 | 189.26 | 189.07 | 189.53 | 0.009702 | 2.37 | 13.62 | 15.87 | 0.71 |
| Reach #1 | 14 | 2-year | 7.34 | 187.28 | 188.29 | 187.99 | 188.36 | 0.005259 | 1.16 | 6.33 | 10.64 | 0.47 |

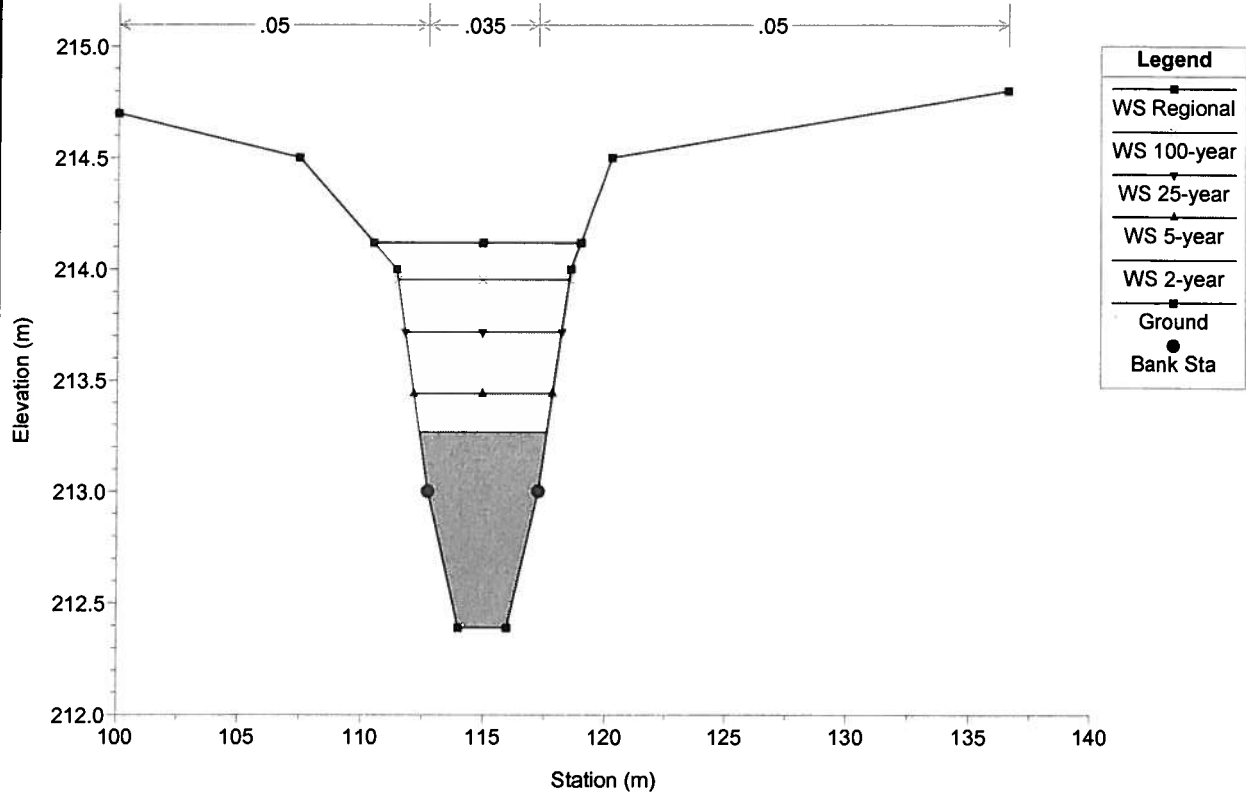
HEC-RAS Plan: Preferred River: Kenny Drain Reach: Reach #1 (Continued)

| Reach | River Sta | Profile | Q Total (m3/s) | Min Ch El (m) | W.S. Elev (m) | Crit W.S. (m) | E.G. Elev (m) | E.G. Slope (m/m) | Vel Chnl (m/s) | Flow Area (m2) | Top Width (m) | Froude # Chl |
|----------|-----------|----------|-------------------|------------------|------------------|------------------|------------------|---------------------|-------------------|-------------------|------------------|--------------|
| Reach #1 | 14 | 5-year | 10.44 | 187.28 | 188.38 | 188.12 | 188.48 | 0.006704 | 1.44 | 7.34 | 11.42 | 0.54 |
| Reach #1 | 14 | 25-year | 16.30 | 187.28 | 188.52 | 188.31 | 188.69 | 0.008755 | 1.86 | 9.06 | 12.64 | 0.64 |
| Reach #1 | 14 | 100-year | 21.76 | 187.28 | 188.62 | 188.45 | 188.88 | 0.010505 | 2.19 | 10.40 | 13.52 | 0.71 |
| Reach #1 | 14 | Regional | 29.80 | 187.28 | 188.80 | 188.65 | 189.10 | 0.010760 | 2.48 | 12.93 | 15.02 | 0.74 |
| Reach #1 | 13 | 2-year | 7.34 | 186.87 | 188.24 | 187.57 | 188.27 | 0.001043 | 0.71 | 10.92 | 13.78 | 0.23 |
| Reach #1 | 13 | 5-year | 10.44 | 186.87 | 188.31 | 187.70 | 188.36 | 0.001661 | 0.93 | 11.88 | 14.35 | 0.29 |
| Reach #1 | 13 | 25-year | 16.30 | 186.87 | 188.41 | 187.88 | 188.49 | 0.002969 | 1.32 | 13.30 | 15.15 | 0.39 |
| Reach #1 | 13 | 100-year | 21.76 | 186.87 | 188.44 | 188.04 | 188.58 | 0.004778 | 1.71 | 13.80 | 15.43 | 0.50 |
| Reach #1 | 13 | Regional | 29.80 | 186.87 | 188.59 | 188.23 | 188.79 | 0.005897 | 2.05 | 16.10 | 16.62 | 0.56 |
| Reach #1 | 12 | 2-year | 7.45 | 186.41 | 188.23 | 187.14 | 188.24 | 0.000320 | 0.41 | 29.28 | 103.45 | 0.12 |
| Reach #1 | 12 | 5-year | 10.68 | 186.41 | 188.30 | 187.34 | 188.31 | 0.000428 | 0.50 | 36.46 | 108.48 | 0.15 |
| Reach #1 | 12 | 25-year | 16.78 | 186.41 | 188.40 | 187.67 | 188.41 | 0.000581 | 0.61 | 47.77 | 115.95 | 0.17 |
| Reach #1 | 12 | 100-year | 22.46 | 186.41 | 188.44 | 187.93 | 188.45 | 0.000854 | 0.75 | 51.99 | 118.61 | 0.21 |
| Reach #1 | 12 | Regional | 30.82 | 186.41 | 188.62 | 188.20 | 188.63 | 0.000642 | 0.71 | 75.09 | 130.75 | 0.19 |
| Reach #1 | 11.5 | | Culvert | | | | | | | | | |
| Reach #1 | 11 | 2-year | 7.45 | 186.23 | 187.40 | 186.96 | 187.54 | 0.004639 | 1.68 | 4.44 | 6.37 | 0.50 |
| Reach #1 | 11 | 5-year | 10.68 | 186.23 | 187.68 | 187.16 | 187.87 | 0.004630 | 1.94 | 5.51 | 7.37 | 0.51 |
| Reach #1 | 11 | 25-year | 16.78 | 186.23 | 188.09 | 187.49 | 188.25 | 0.004530 | 1.79 | 12.07 | 109.48 | 0.47 |
| Reach #1 | 11 | 100-year | 22.46 | 186.23 | 188.36 | 188.11 | 188.38 | 0.000971 | 0.84 | 50.08 | 114.79 | 0.22 |
| Reach #1 | 11 | Regional | 30.82 | 186.23 | 188.61 | 188.19 | 188.62 | 0.000536 | 0.69 | 78.93 | 120.14 | 0.16 |
| Reach #1 | 10 | 2-year | 7.45 | 185.95 | 187.26 | 186.80 | 187.37 | 0.005710 | 1.42 | 5.25 | 5.84 | 0.48 |
| Reach #1 | 10 | 5-year | 10.68 | 185.95 | 187.57 | 187.00 | 187.68 | 0.005063 | 1.48 | 7.24 | 6.93 | 0.46 |
| Reach #1 | 10 | 25-year | 16.78 | 185.95 | 187.95 | 187.31 | 188.09 | 0.005179 | 1.66 | 10.11 | 8.26 | 0.48 |
| Reach #1 | 10 | 100-year | 22.46 | 185.95 | 188.04 | 187.55 | 188.26 | 0.007589 | 2.07 | 10.93 | 13.98 | 0.58 |
| Reach #1 | 10 | Regional | 30.82 | 185.95 | 188.06 | 187.83 | 188.46 | 0.013481 | 2.79 | 11.27 | 17.18 | 0.78 |
| Reach #1 | 9 | 2-year | 7.45 | 185.52 | 186.83 | 186.50 | 187.01 | 0.010363 | 1.85 | 4.02 | 4.24 | 0.61 |
| Reach #1 | 9 | 5-year | 10.68 | 185.52 | 187.20 | 186.73 | 187.37 | 0.008780 | 1.86 | 5.73 | 5.35 | 0.57 |
| Reach #1 | 9 | 25-year | 16.78 | 185.52 | 187.72 | 187.09 | 187.85 | 0.004966 | 1.67 | 14.18 | 52.78 | 0.46 |
| Reach #1 | 9 | 100-year | 22.46 | 185.52 | 187.92 | 187.38 | 187.99 | 0.003172 | 1.46 | 28.14 | 88.45 | 0.37 |
| Reach #1 | 9 | Regional | 30.82 | 185.52 | 188.11 | 187.89 | 188.16 | 0.002007 | 1.26 | 46.69 | 100.97 | 0.30 |
| Reach #1 | 8 | 2-year | 7.45 | 185.08 | 186.72 | 185.87 | 186.77 | 0.002276 | 1.05 | 7.11 | 5.67 | 0.30 |
| Reach #1 | 8 | 5-year | 10.68 | 185.08 | 187.08 | 186.06 | 187.15 | 0.002360 | 1.15 | 9.30 | 8.60 | 0.31 |
| Reach #1 | 8 | 25-year | 16.78 | 185.08 | 187.60 | 186.38 | 187.68 | 0.002376 | 1.23 | 14.63 | 66.93 | 0.32 |
| Reach #1 | 8 | 100-year | 22.46 | 185.08 | 187.84 | 186.62 | 187.88 | 0.001536 | 1.09 | 36.21 | 117.04 | 0.27 |
| Reach #1 | 8 | Regional | 30.82 | 185.08 | 188.06 | 186.92 | 188.09 | 0.000894 | 0.91 | 67.76 | 153.60 | 0.21 |
| Reach #1 | 7 | 2-year | 7.45 | 184.72 | 186.58 | 185.76 | 186.66 | 0.003594 | 1.26 | 5.92 | 4.62 | 0.35 |
| Reach #1 | 7 | 5-year | 10.68 | 184.72 | 186.93 | 186.00 | 187.03 | 0.003748 | 1.40 | 7.64 | 5.17 | 0.37 |
| Reach #1 | 7 | 25-year | 16.78 | 184.72 | 187.43 | 186.36 | 187.55 | 0.004742 | 1.52 | 11.02 | 8.75 | 0.43 |
| Reach #1 | 7 | 100-year | 22.46 | 184.72 | 187.70 | 186.64 | 187.79 | 0.003407 | 1.43 | 23.75 | 85.96 | 0.38 |
| Reach #1 | 7 | Regional | 30.82 | 184.72 | 188.01 | 187.00 | 188.04 | 0.001289 | 1.00 | 57.03 | 126.88 | 0.24 |
| Reach #1 | 6 | 2-year | 7.45 | 184.29 | 186.11 | 185.65 | 186.33 | 0.015082 | 2.08 | 3.57 | 3.13 | 0.62 |
| Reach #1 | 6 | 5-year | 10.68 | 184.29 | 186.43 | 185.95 | 186.69 | 0.016149 | 2.24 | 4.76 | 4.33 | 0.68 |
| Reach #1 | 6 | 25-year | 16.78 | 184.29 | 186.86 | 186.50 | 187.16 | 0.015331 | 2.40 | 6.99 | 5.97 | 0.71 |
| Reach #1 | 6 | 100-year | 22.46 | 184.29 | 187.15 | 186.81 | 187.48 | 0.013924 | 2.55 | 8.84 | 7.05 | 0.70 |
| Reach #1 | 6 | Regional | 30.82 | 184.29 | 187.48 | 187.11 | 187.87 | 0.012304 | 2.78 | 11.41 | 8.34 | 0.68 |
| Reach #1 | 5 | 2-year | 7.45 | 183.80 | 184.76 | 184.76 | 185.18 | 0.032762 | 2.85 | 2.82 | 3.25 | 1.01 |
| Reach #1 | 5 | 5-year | 10.68 | 183.80 | 185.01 | 185.01 | 185.50 | 0.031476 | 3.09 | 3.45 | 3.52 | 1.00 |
| Reach #1 | 5 | 25-year | 16.78 | 183.80 | 185.38 | 185.38 | 186.00 | 0.031348 | 3.48 | 4.83 | 3.93 | 1.00 |
| Reach #1 | 5 | 100-year | 22.46 | 183.80 | 185.67 | 185.67 | 186.38 | 0.031023 | 3.73 | 6.03 | 4.25 | 1.00 |
| Reach #1 | 5 | Regional | 30.82 | 183.80 | 186.10 | 186.10 | 186.86 | 0.029832 | 3.88 | 7.95 | 5.17 | 1.00 |
| Reach #1 | 4 | 2-year | 7.45 | 180.50 | 181.49 | 181.60 | 182.01 | 0.044957 | 3.18 | 2.34 | 3.43 | 1.23 |
| Reach #1 | 4 | 5-year | 10.68 | 180.50 | 181.67 | 181.83 | 182.32 | 0.047441 | 3.56 | 3.00 | 3.81 | 1.28 |
| Reach #1 | 4 | 25-year | 16.78 | 180.50 | 181.96 | 182.16 | 182.78 | 0.048625 | 4.02 | 4.17 | 4.41 | 1.32 |
| Reach #1 | 4 | 100-year | 22.46 | 180.50 | 182.14 | 182.42 | 183.17 | 0.048793 | 4.49 | 5.03 | 4.92 | 1.36 |
| Reach #1 | 4 | Regional | 30.82 | 180.50 | 182.36 | 182.77 | 183.68 | 0.049492 | 5.10 | 6.19 | 5.57 | 1.41 |
| Reach #1 | 3 | 2-year | 7.60 | 176.90 | 177.68 | 177.28 | 177.73 | 0.002479 | 0.94 | 8.08 | 11.21 | 0.34 |
| Reach #1 | 3 | 5-year | 10.92 | 176.90 | 177.89 | 177.39 | 177.95 | 0.002382 | 1.07 | 10.16 | 11.45 | 0.35 |
| Reach #1 | 3 | 25-year | 17.13 | 176.90 | 178.22 | 177.56 | 178.30 | 0.002205 | 1.26 | 13.62 | 11.84 | 0.35 |
| Reach #1 | 3 | 100-year | 22.94 | 176.90 | 178.50 | 177.70 | 178.60 | 0.002091 | 1.39 | 16.49 | 12.16 | 0.35 |
| Reach #1 | 3 | Regional | 31.49 | 176.90 | 178.87 | 177.88 | 179.00 | 0.001964 | 1.55 | 20.32 | 12.59 | 0.35 |
| Reach #1 | 2.5 | | Culvert | | | | | | | | | |
| Reach #1 | 2 | 2-year | 7.60 | 176.31 | 176.83 | 176.69 | 176.93 | 0.009691 | 1.42 | 5.37 | 11.45 | 0.63 |
| Reach #1 | 2 | 5-year | 10.92 | 176.31 | 177.14 | 176.80 | 177.22 | 0.004306 | 1.28 | 8.51 | 12.12 | 0.45 |

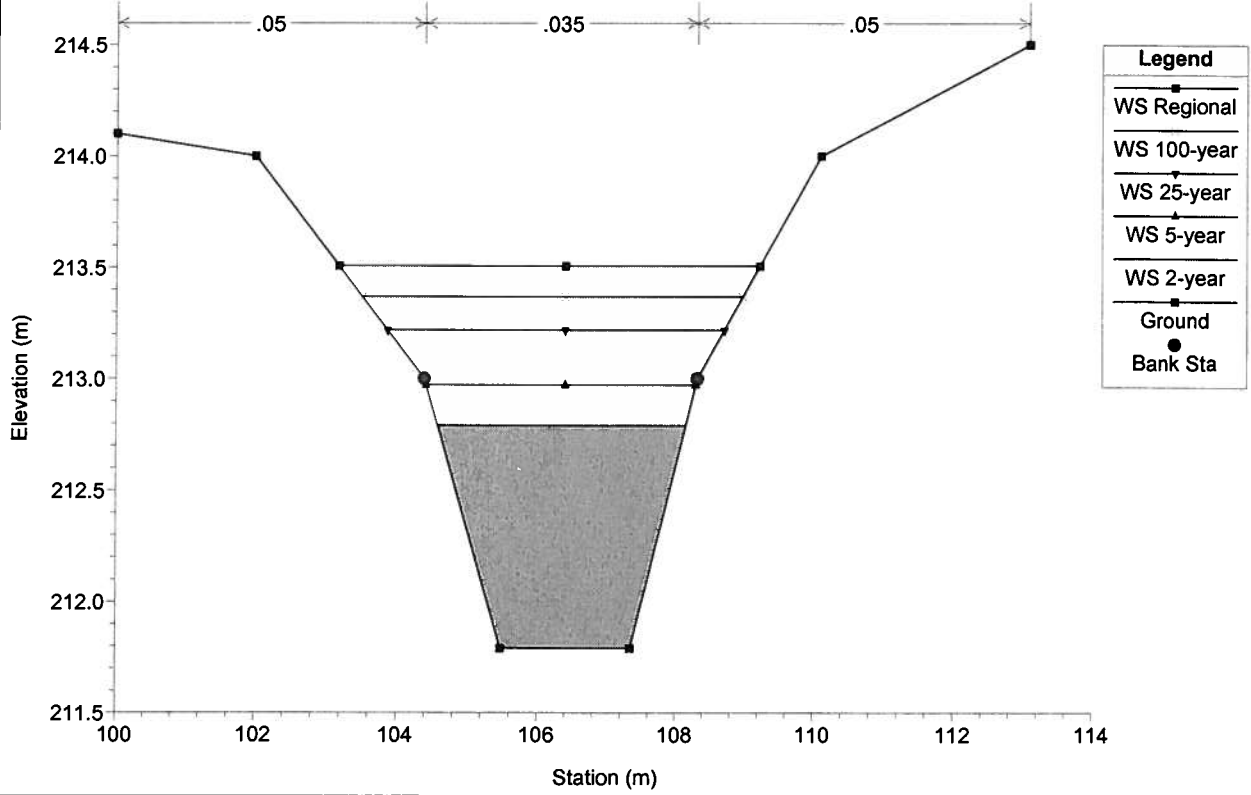
HEC-RAS Plan: Preferred River: Kenny Drain Reach: Reach #1 (Continued)

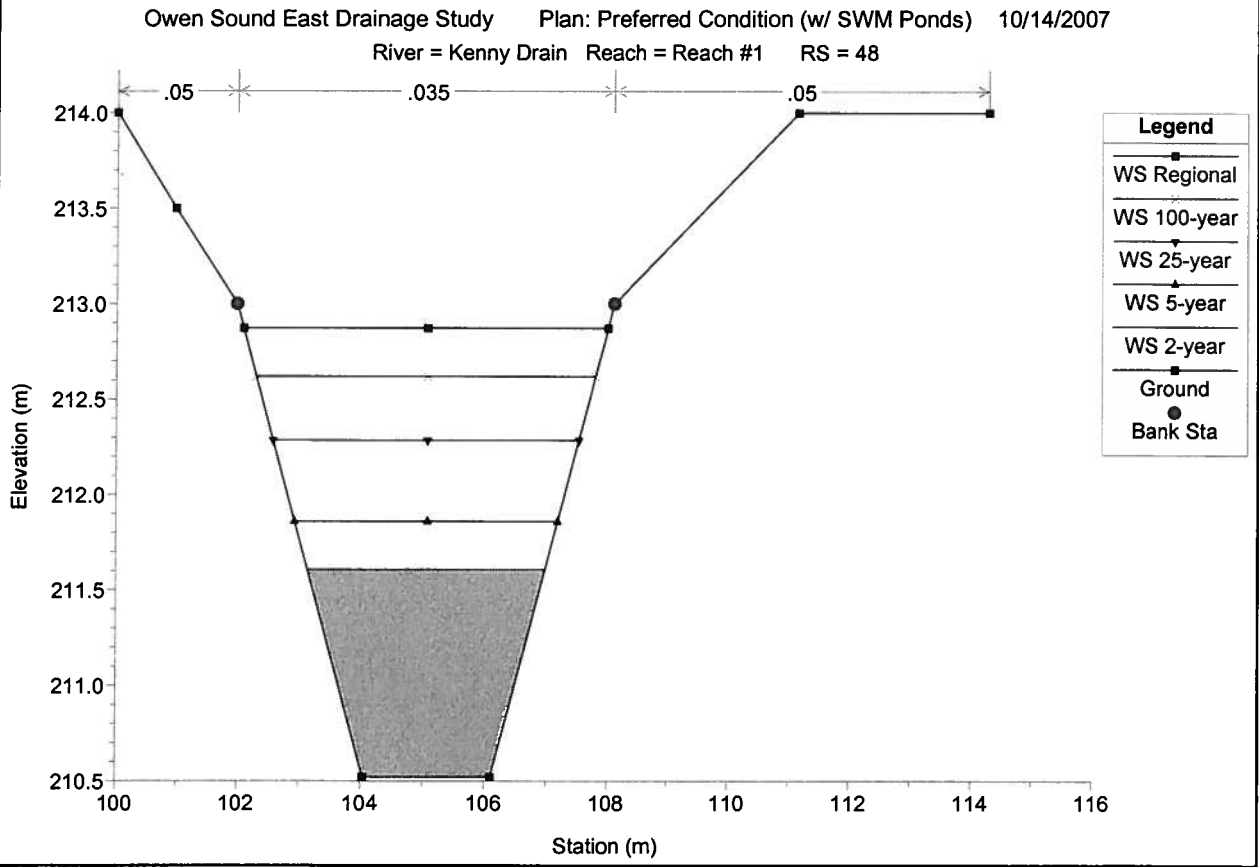
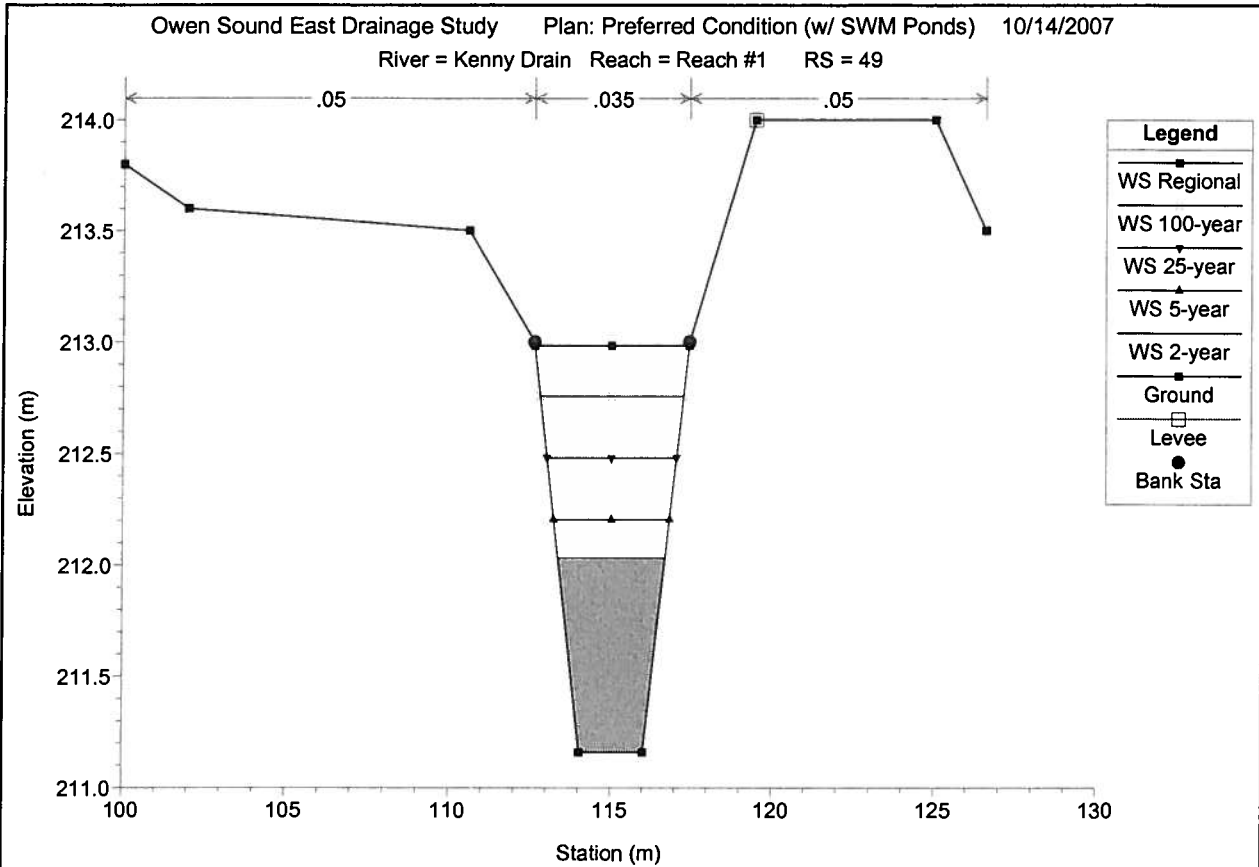
| Reach | River Sta | Profile | Q Total (m3/s) | Min Ch El (m) | W.S. Elev (m) | Crit W.S. (m) | E.G. Elev (m) | E.G. Slope (m/m) | Vel Chnl (m/s) | Flow Area (m2) | Top Width (m) | Froude # Chl |
|----------|-----------|----------|-------------------|------------------|------------------|------------------|------------------|---------------------|-------------------|-------------------|------------------|--------------|
| Reach #1 | 2 | 25-year | 17.13 | 176.31 | 177.54 | 176.97 | 177.64 | 0.002784 | 1.35 | 12.70 | 13.01 | 0.39 |
| Reach #1 | 2 | 100-year | 22.94 | 176.31 | 177.75 | 177.11 | 177.87 | 0.002962 | 1.54 | 14.86 | 13.47 | 0.41 |
| Reach #1 | 2 | Regional | 31.49 | 176.31 | 177.97 | 177.29 | 178.14 | 0.003515 | 1.84 | 17.07 | 13.95 | 0.46 |
| Reach #1 | 1 | 2-year | 7.60 | 175.64 | 176.51 | 176.51 | 176.85 | 0.027537 | 2.58 | 2.95 | 4.38 | 1.00 |
| Reach #1 | 1 | 5-year | 10.92 | 175.64 | 176.71 | 176.71 | 177.12 | 0.026604 | 2.82 | 3.87 | 4.84 | 1.01 |
| Reach #1 | 1 | 25-year | 17.13 | 175.64 | 177.05 | 177.05 | 177.52 | 0.025029 | 3.03 | 5.65 | 6.02 | 1.00 |
| Reach #1 | 1 | 100-year | 22.94 | 175.64 | 177.34 | 177.34 | 177.78 | 0.024291 | 2.91 | 7.88 | 9.13 | 1.00 |
| Reach #1 | 1 | Regional | 31.49 | 175.64 | 177.60 | 177.60 | 178.05 | 0.023359 | 2.96 | 10.63 | 11.90 | 1.00 |

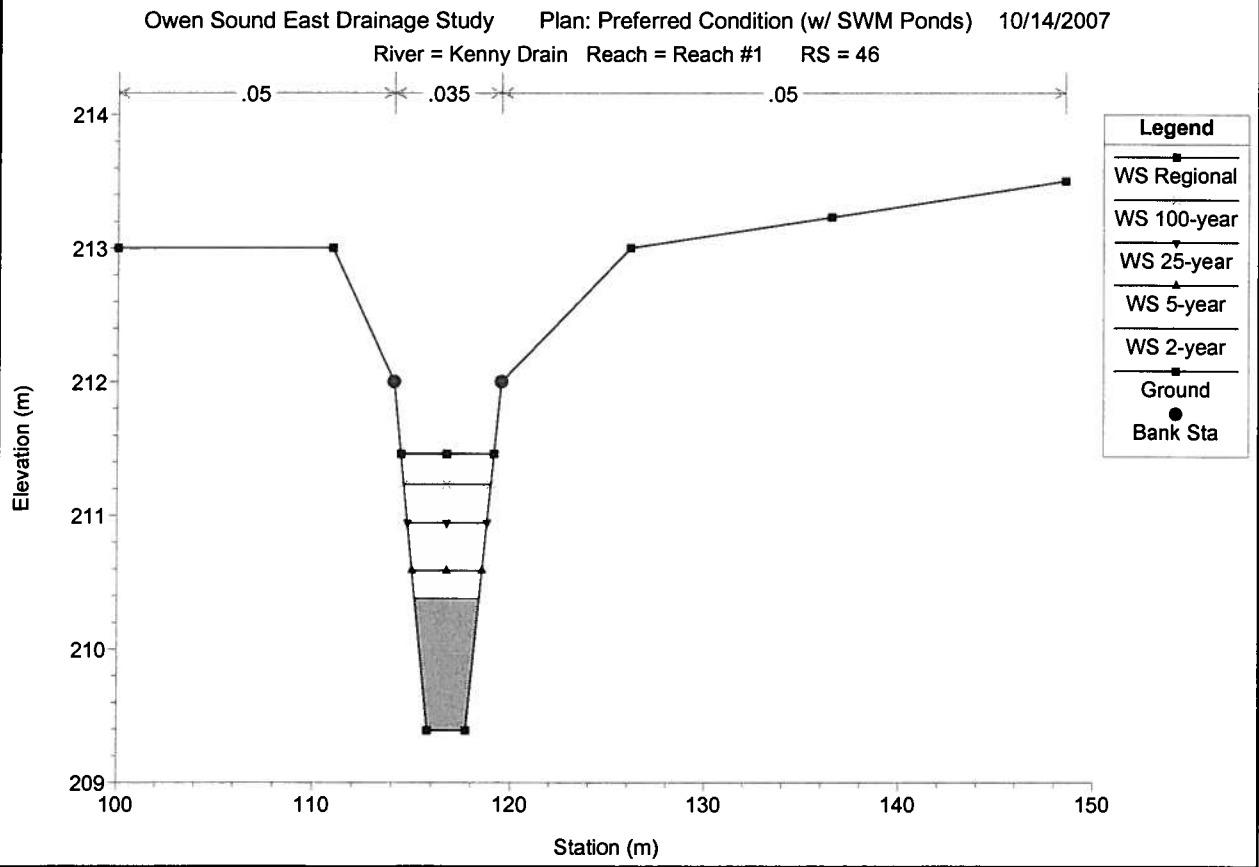
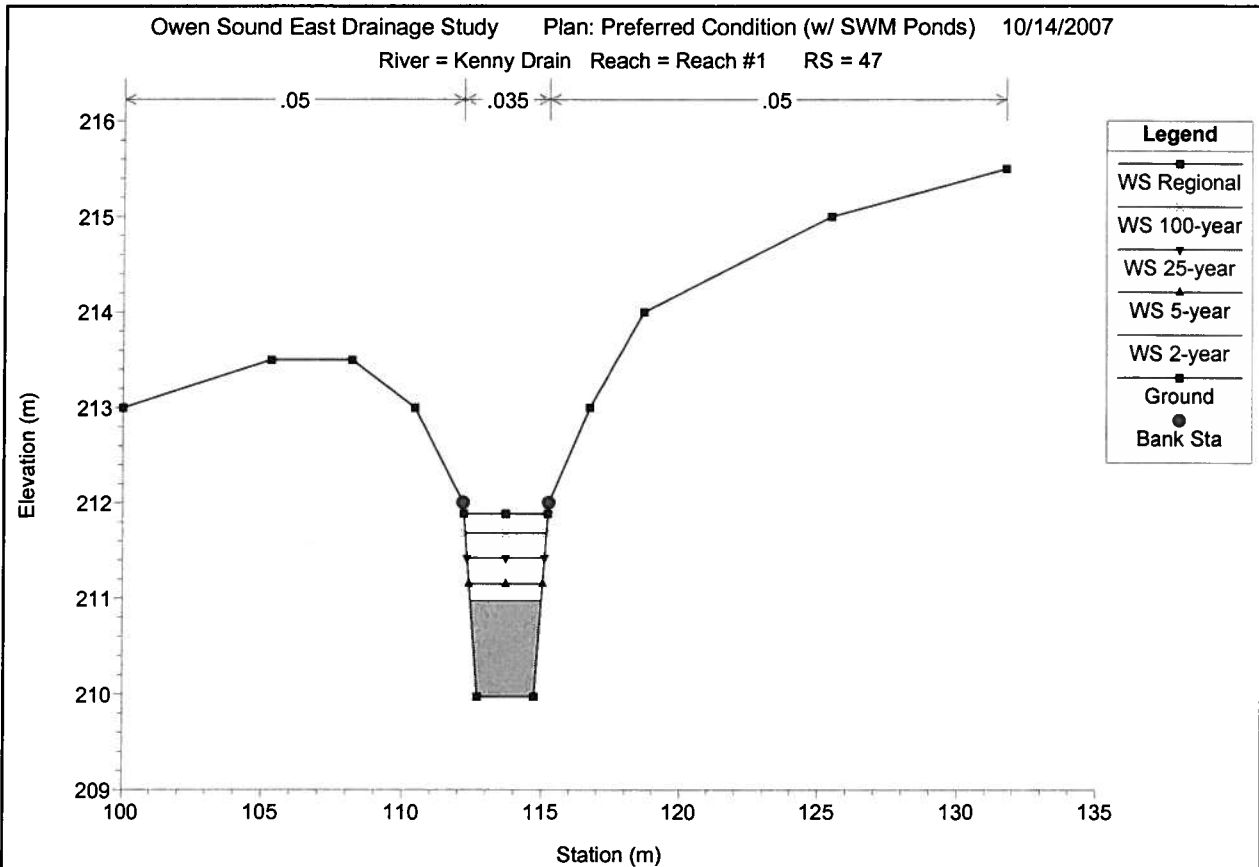
Owen Sound East Drainage Study Plan: Preferred Condition (w/ SWM Ponds) 10/14/2007
 River = Kenny Drain Reach = Reach #1 RS = 51 Upstream end of hydraulic model (16th Ave E just south of 23rd S)

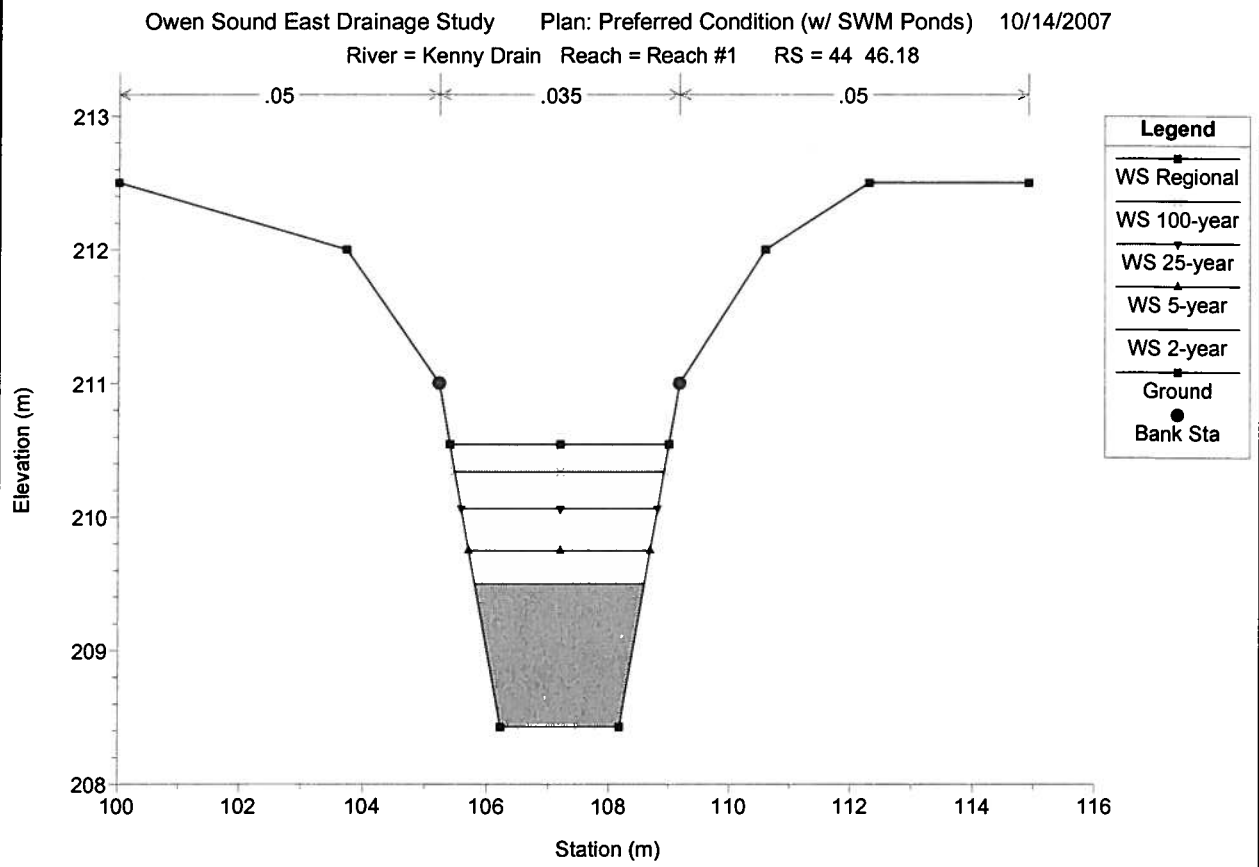
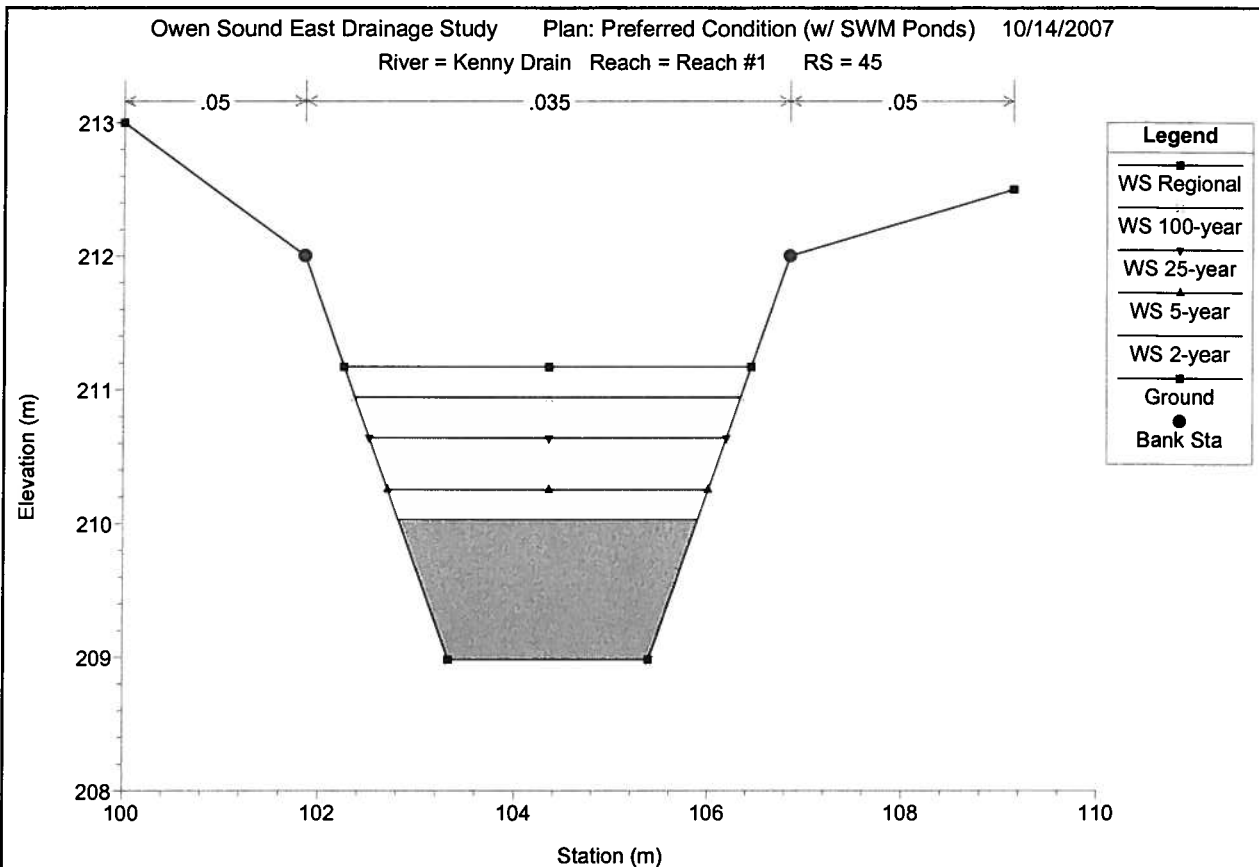


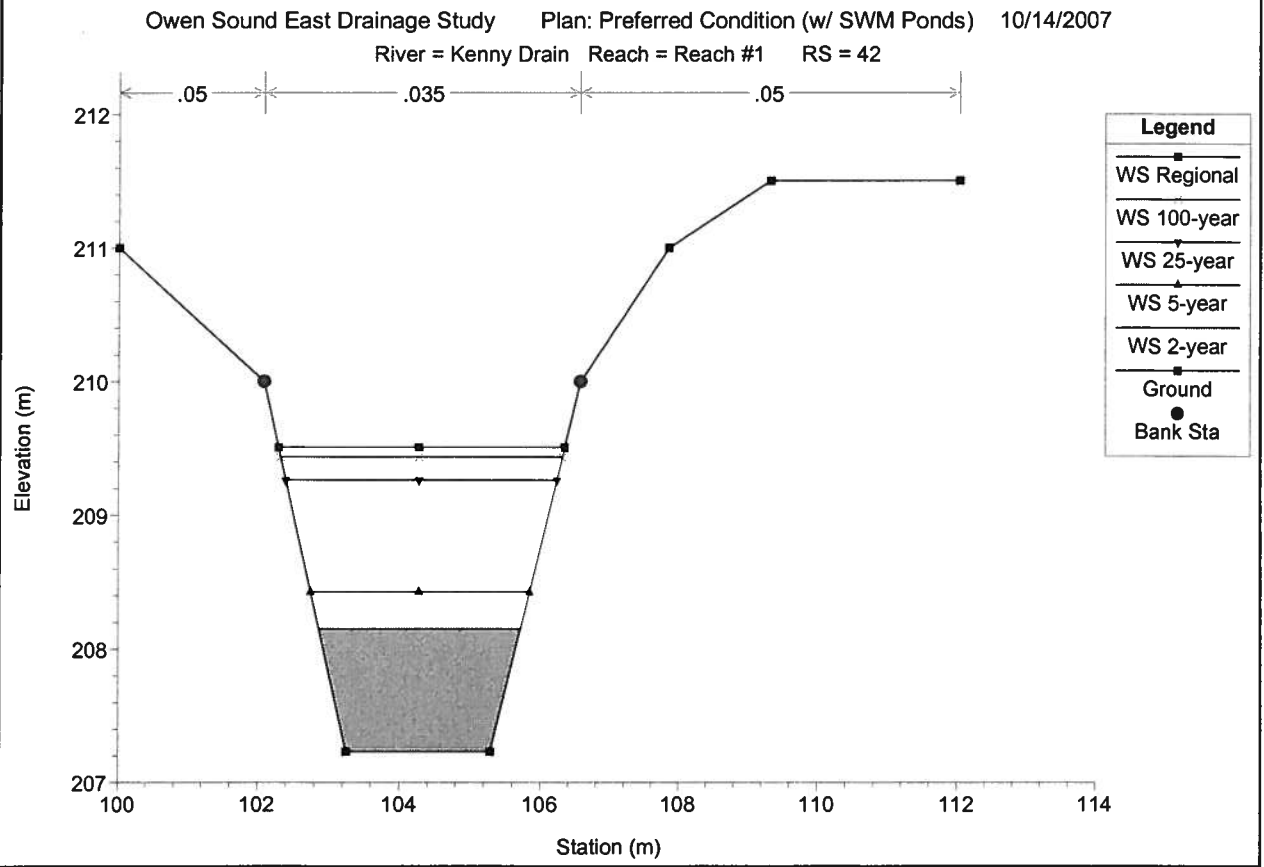
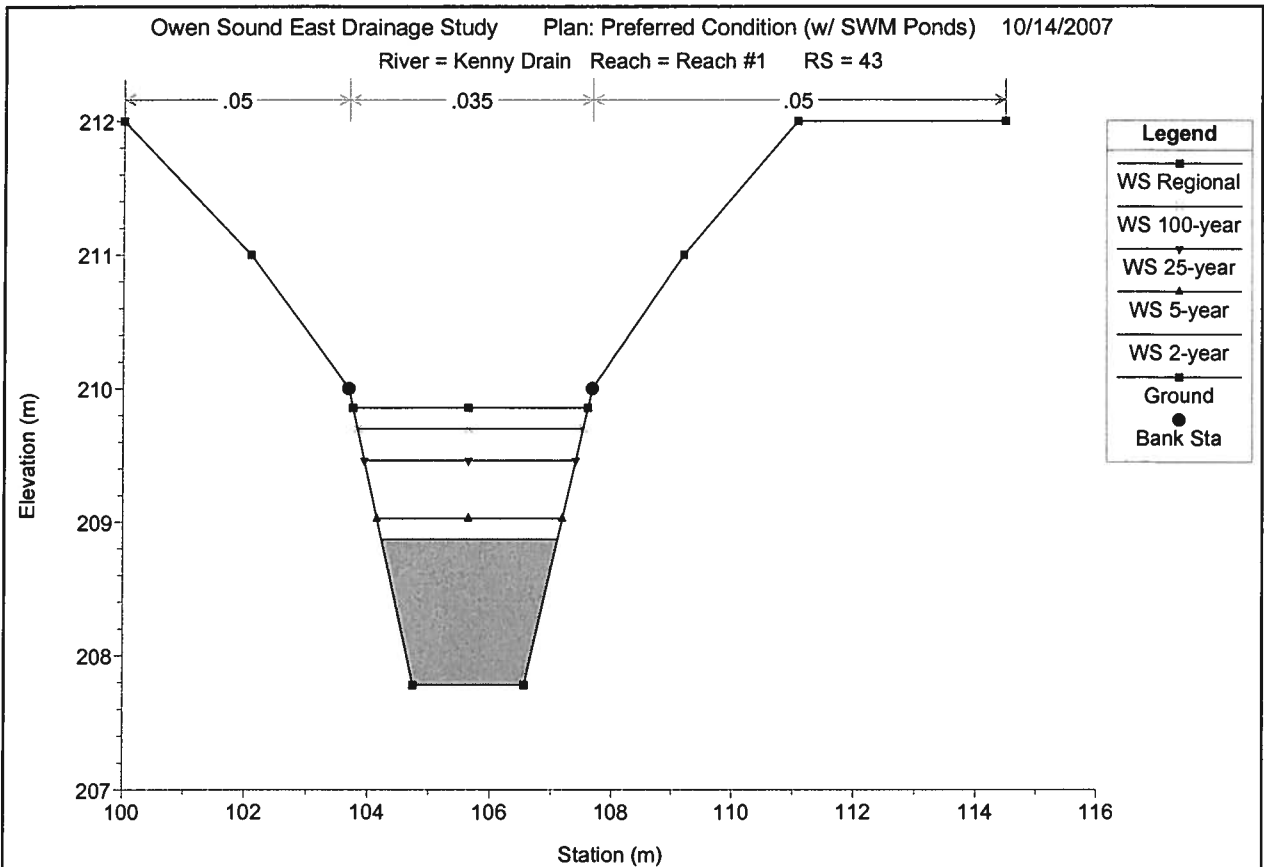
Owen Sound East Drainage Study Plan: Preferred Condition (w/ SWM Ponds) 10/14/2007
 River = Kenny Drain Reach = Reach #1 RS = 50

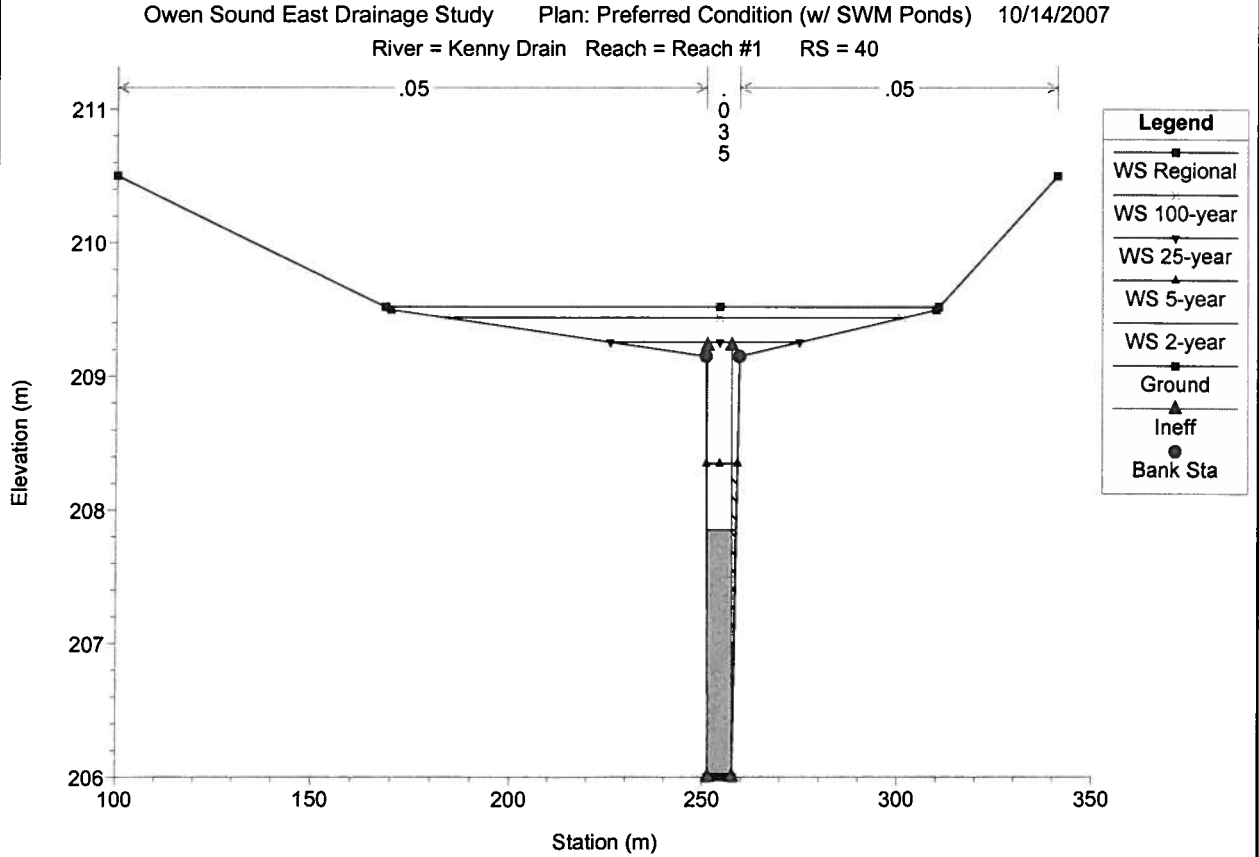
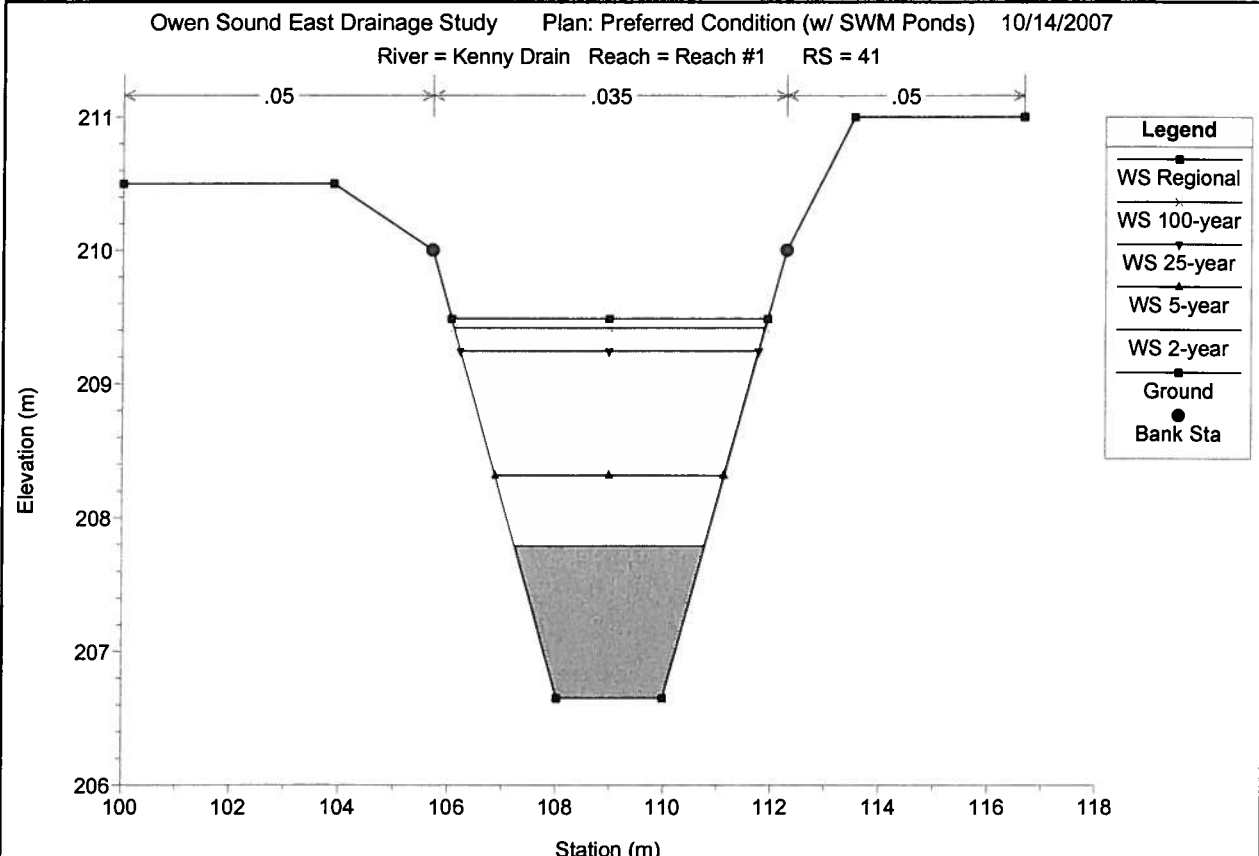


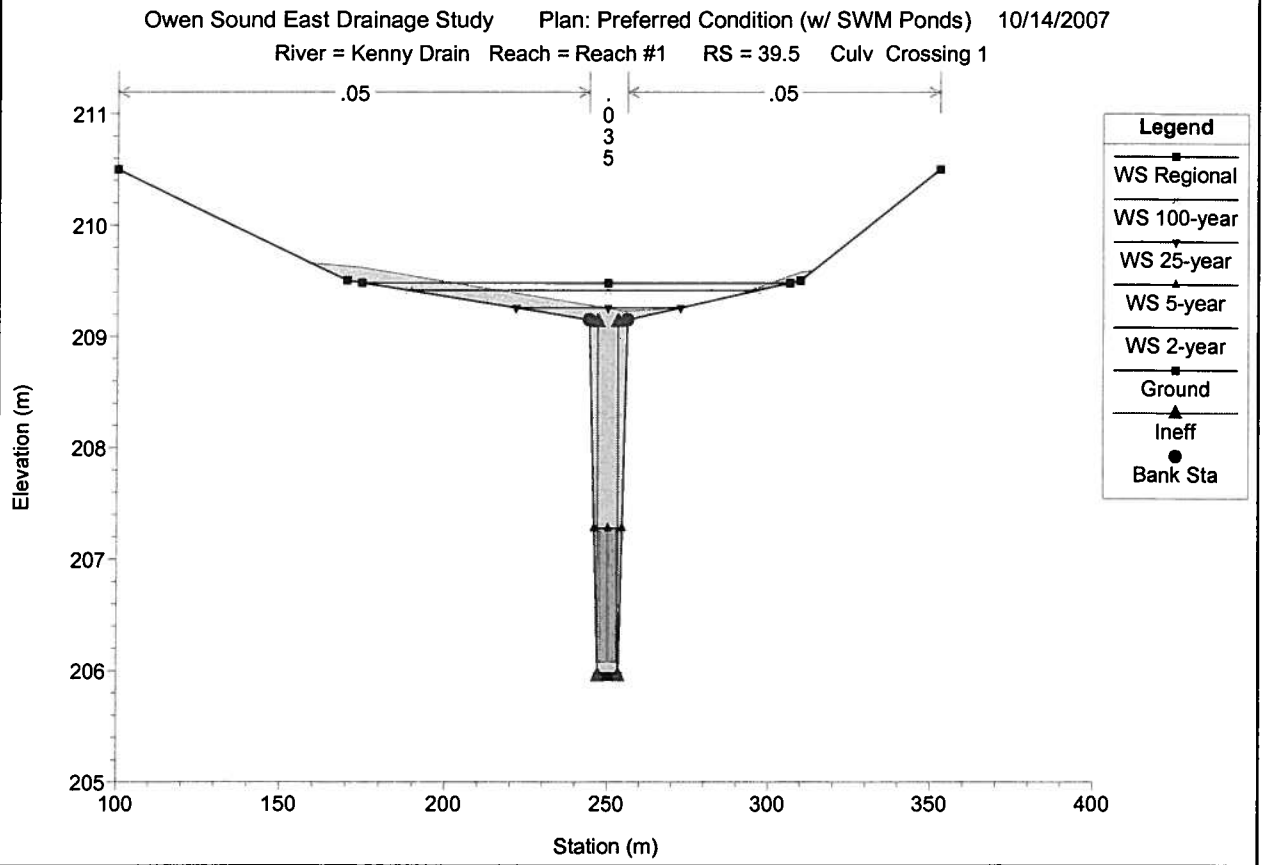
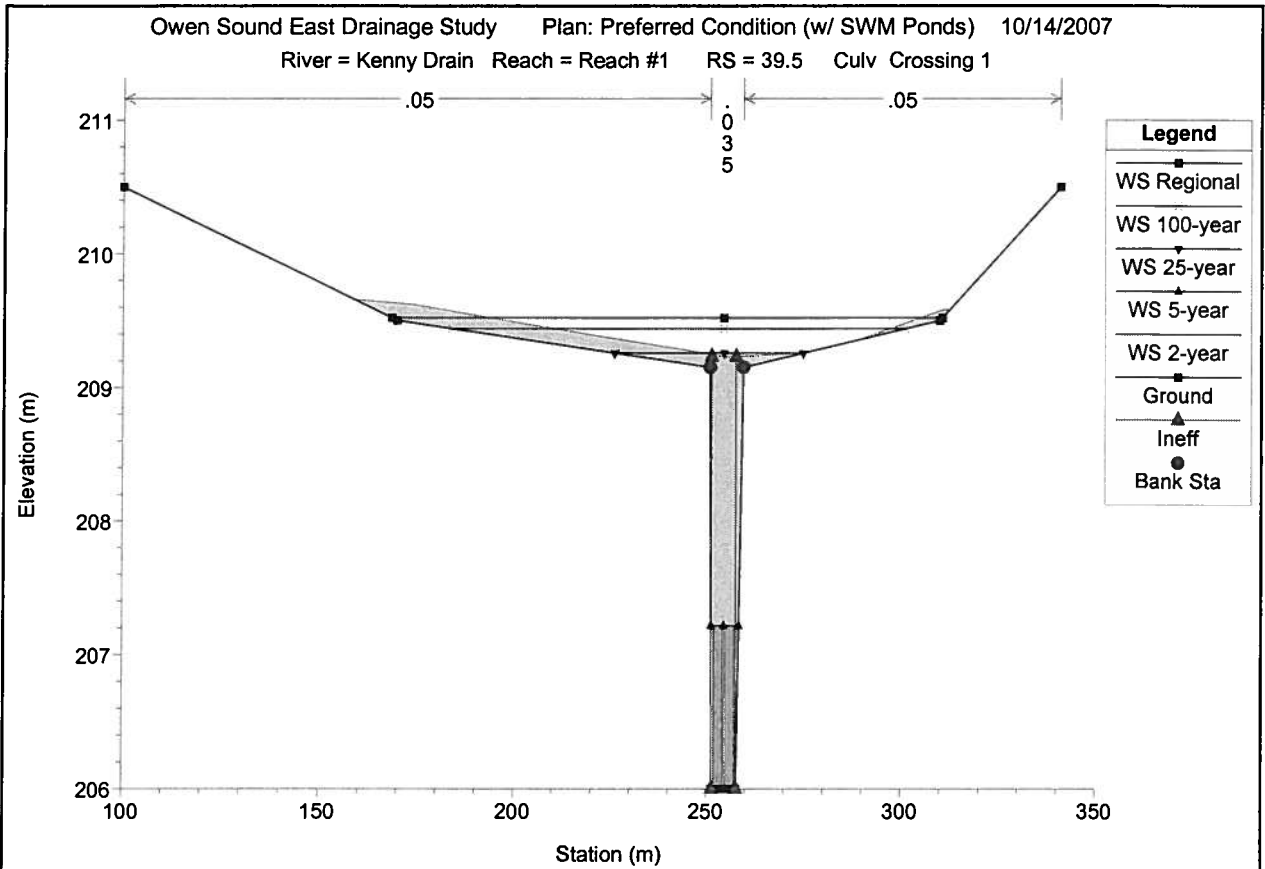


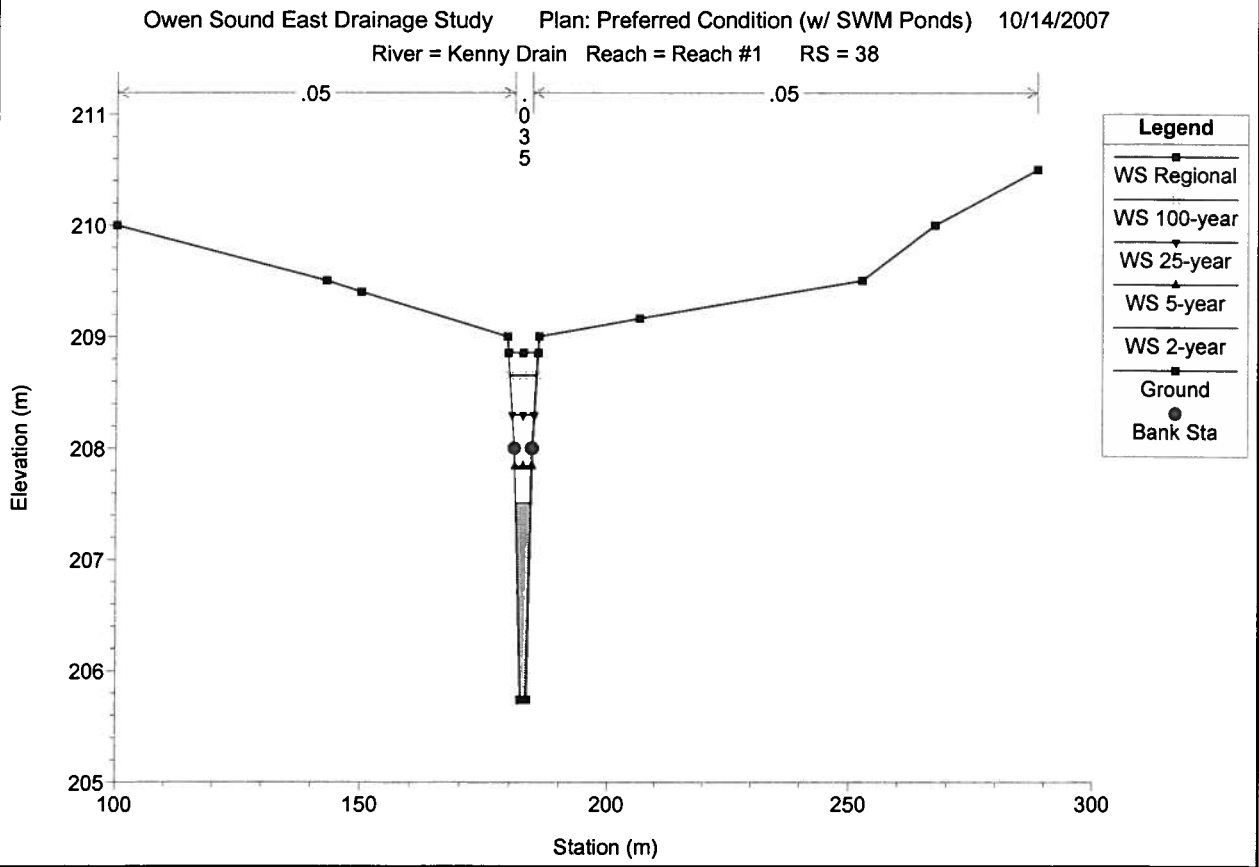
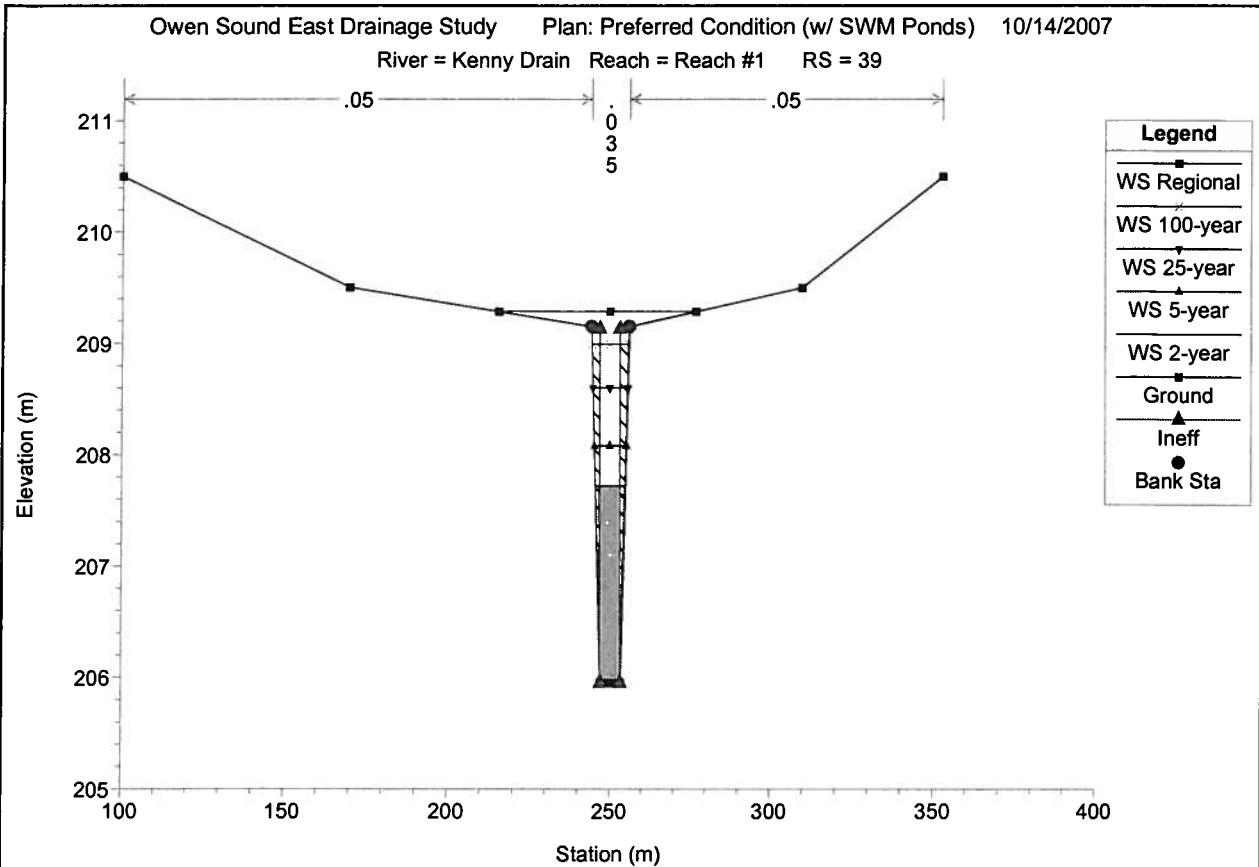


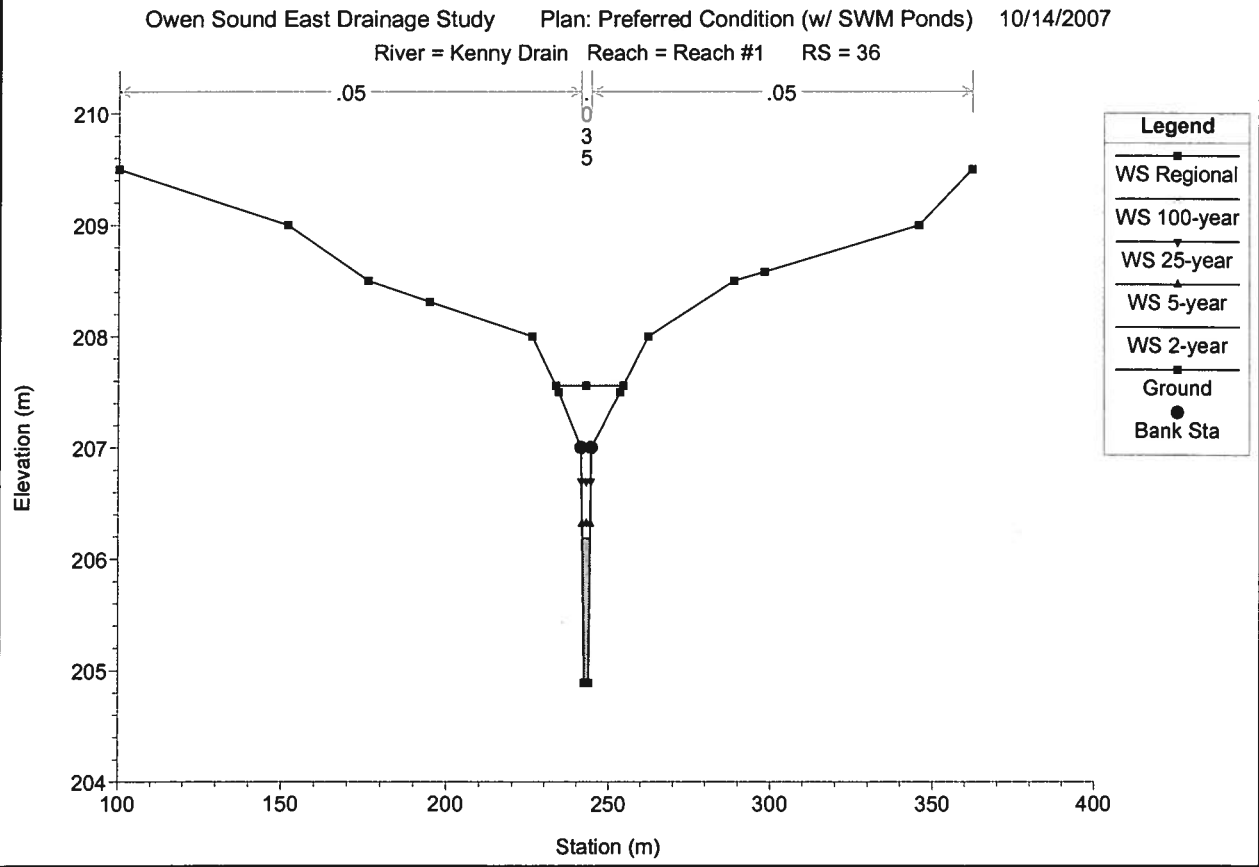
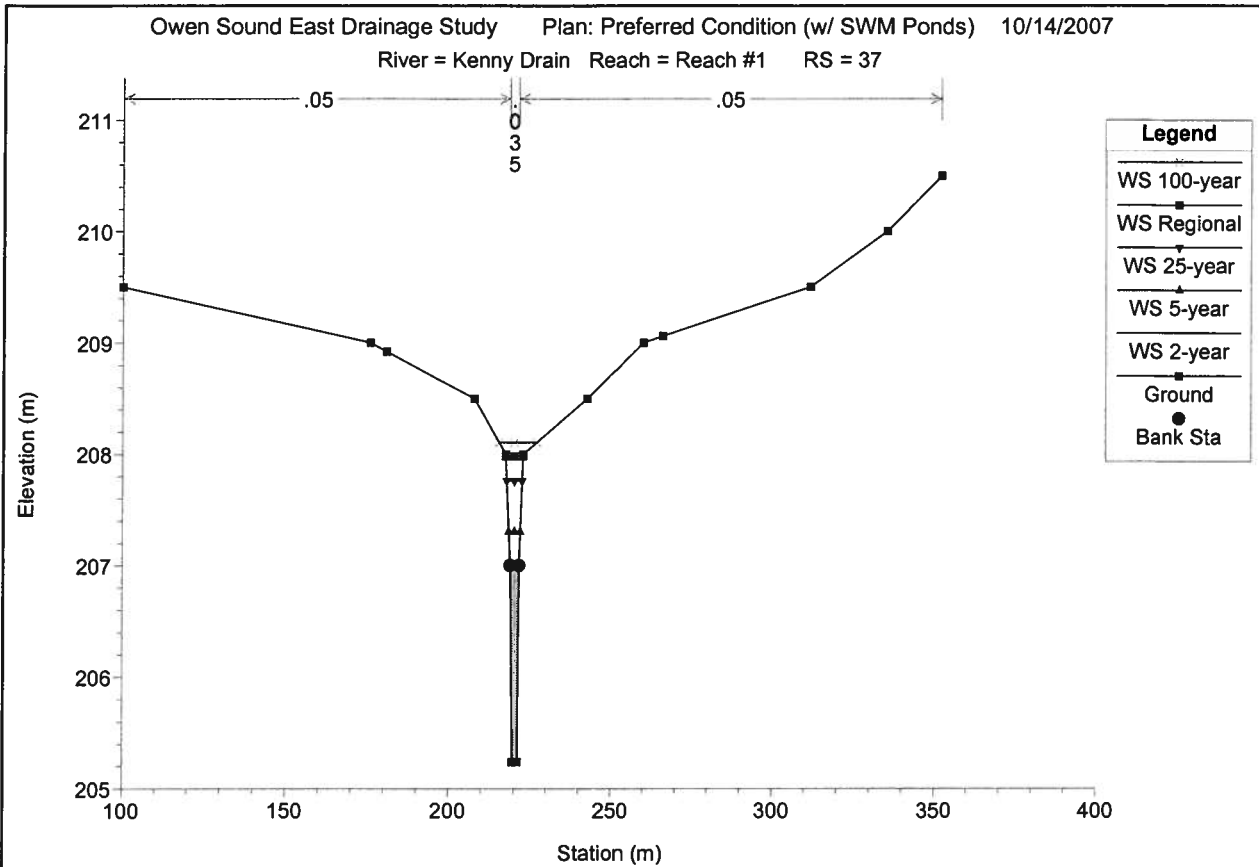


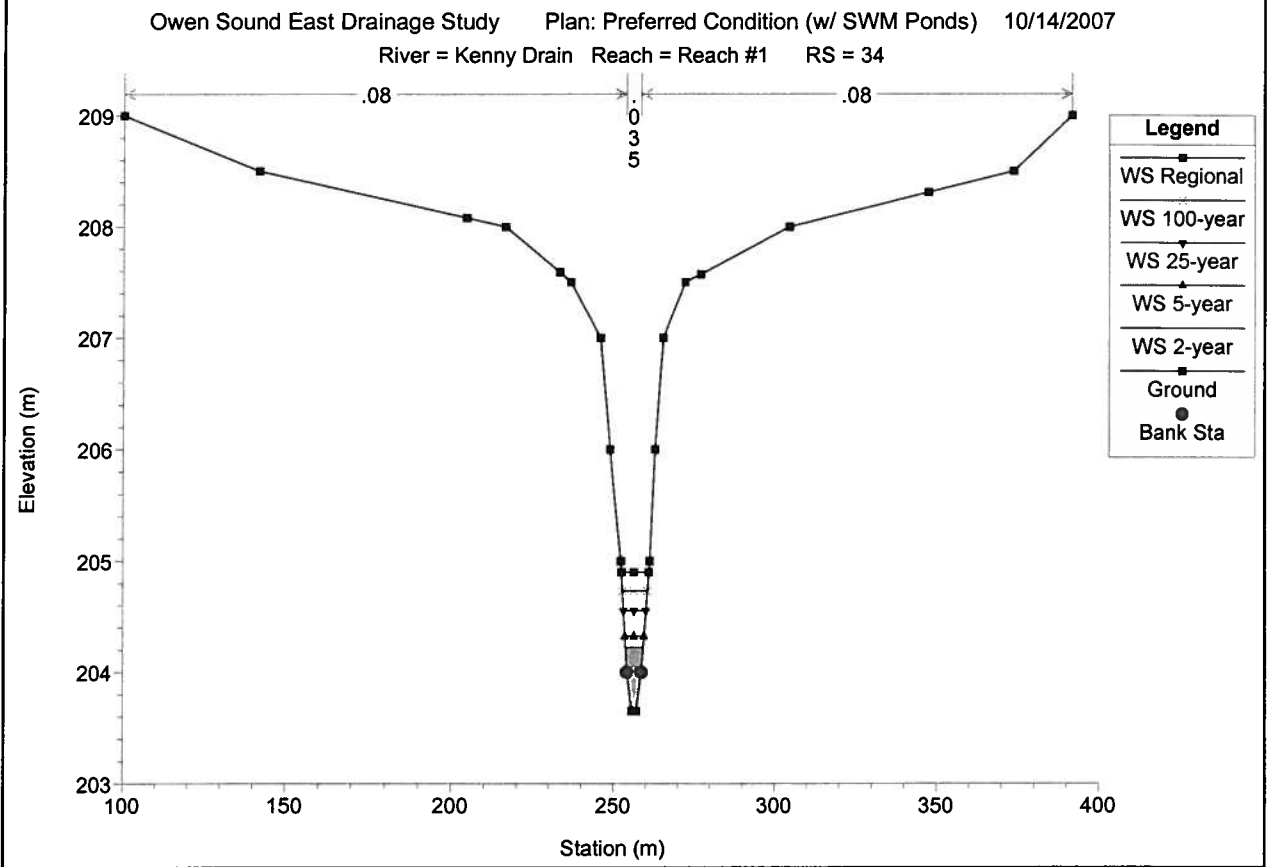
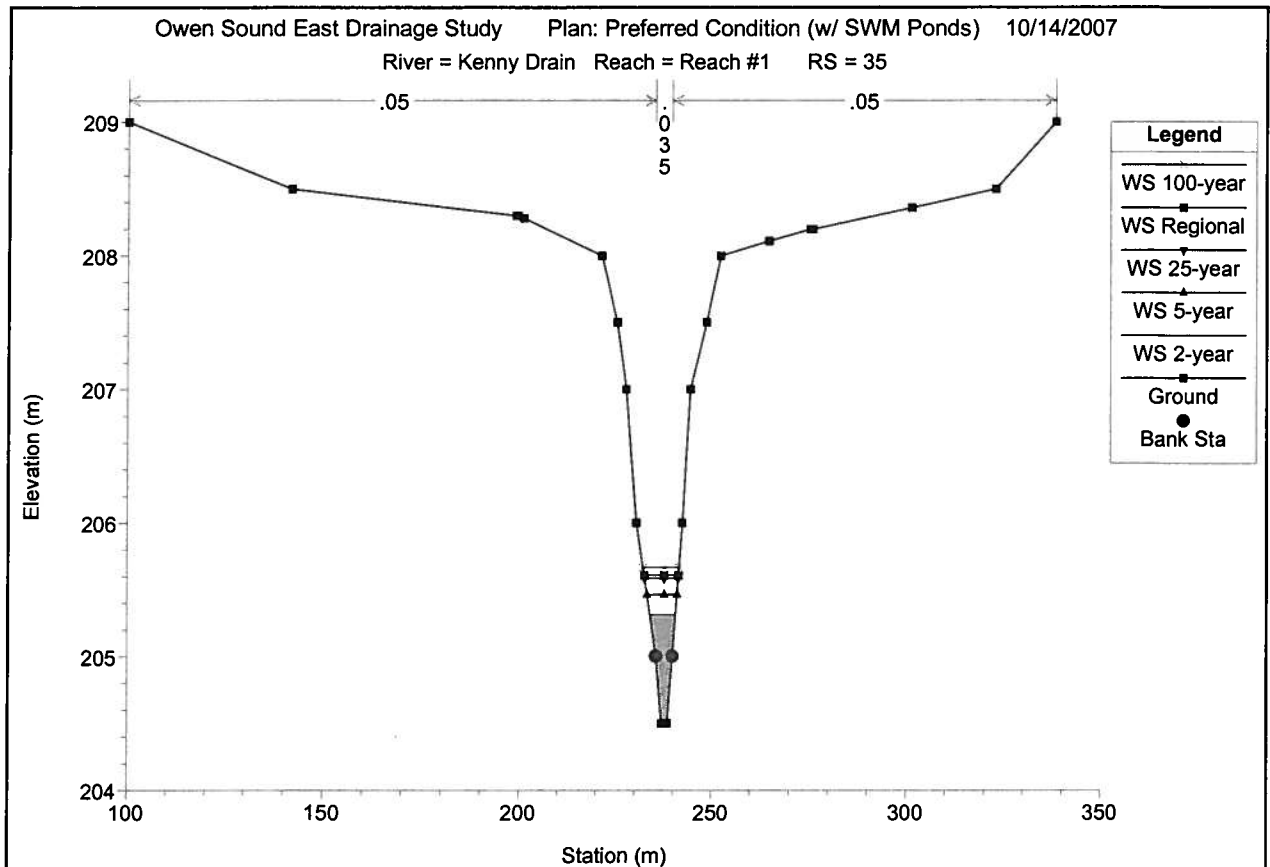


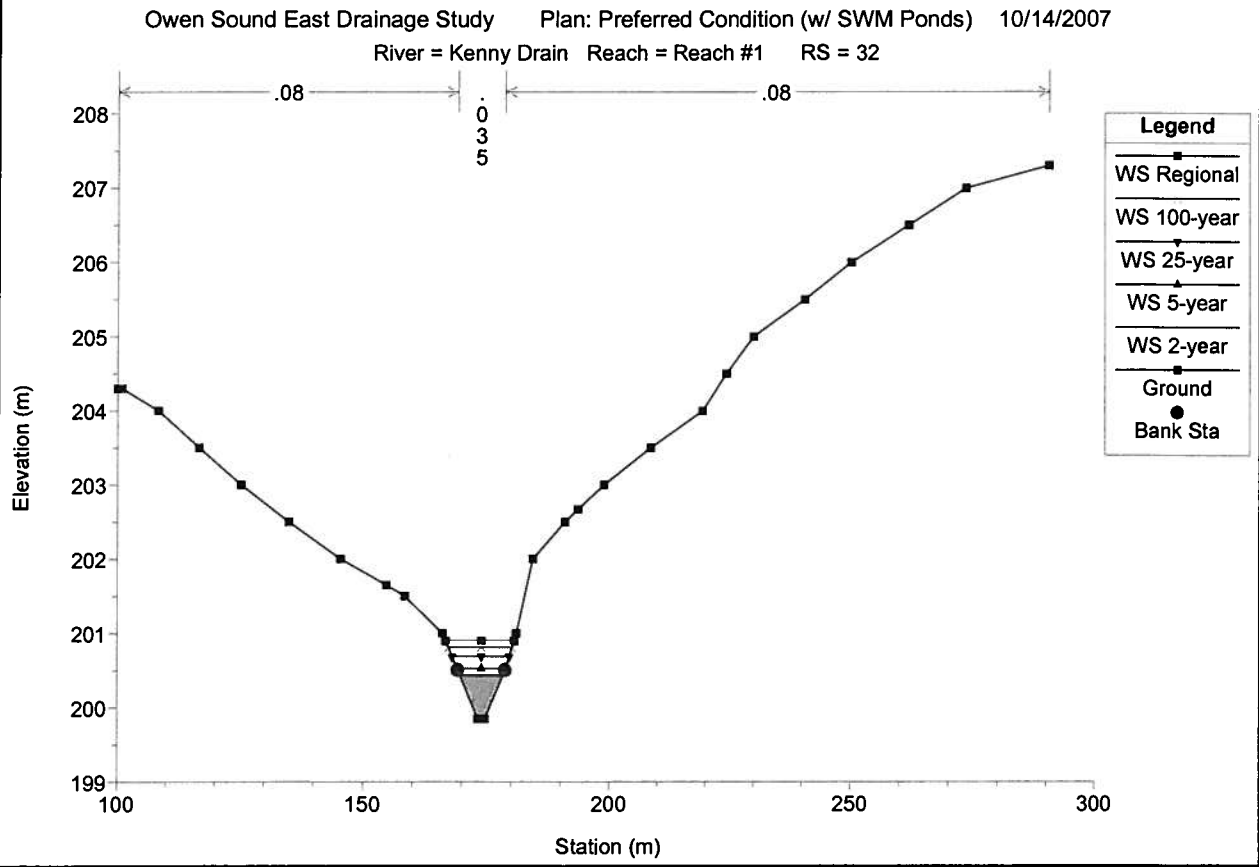
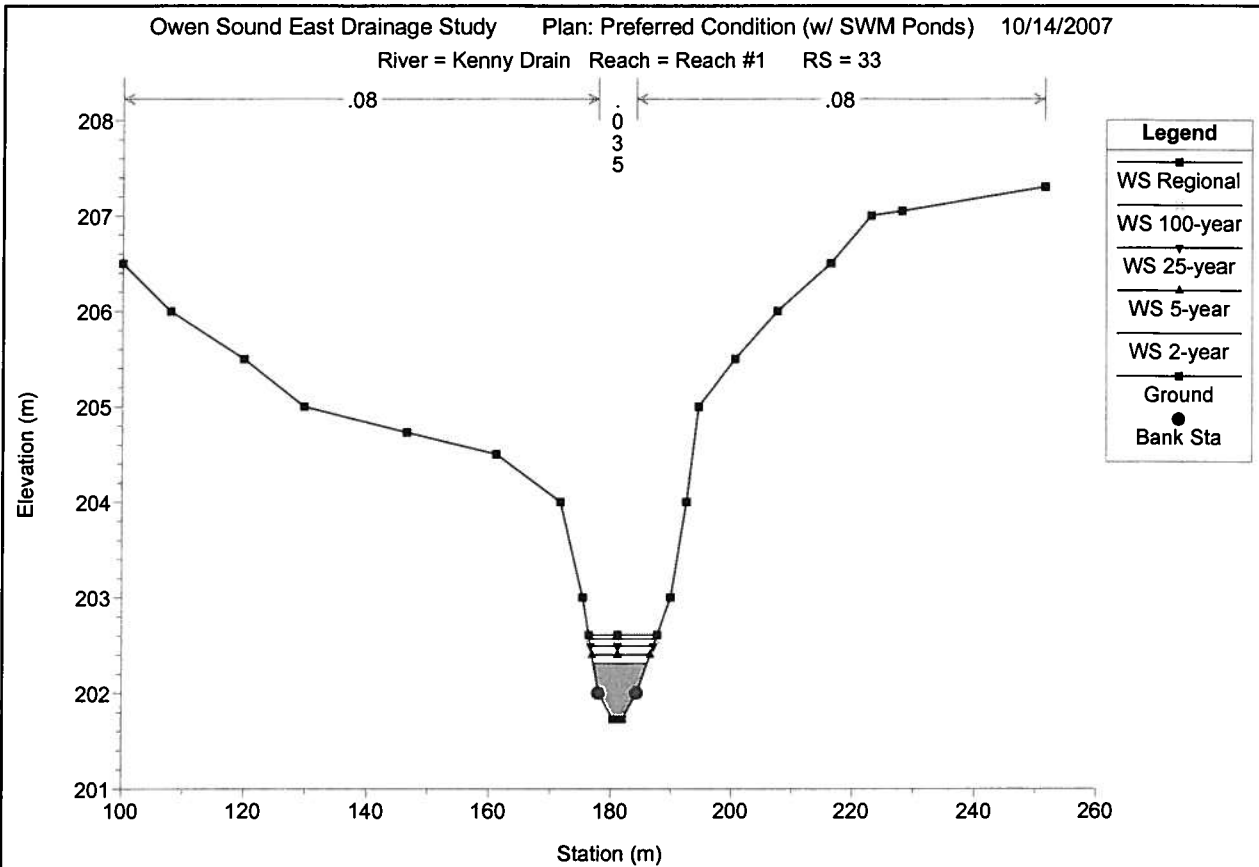


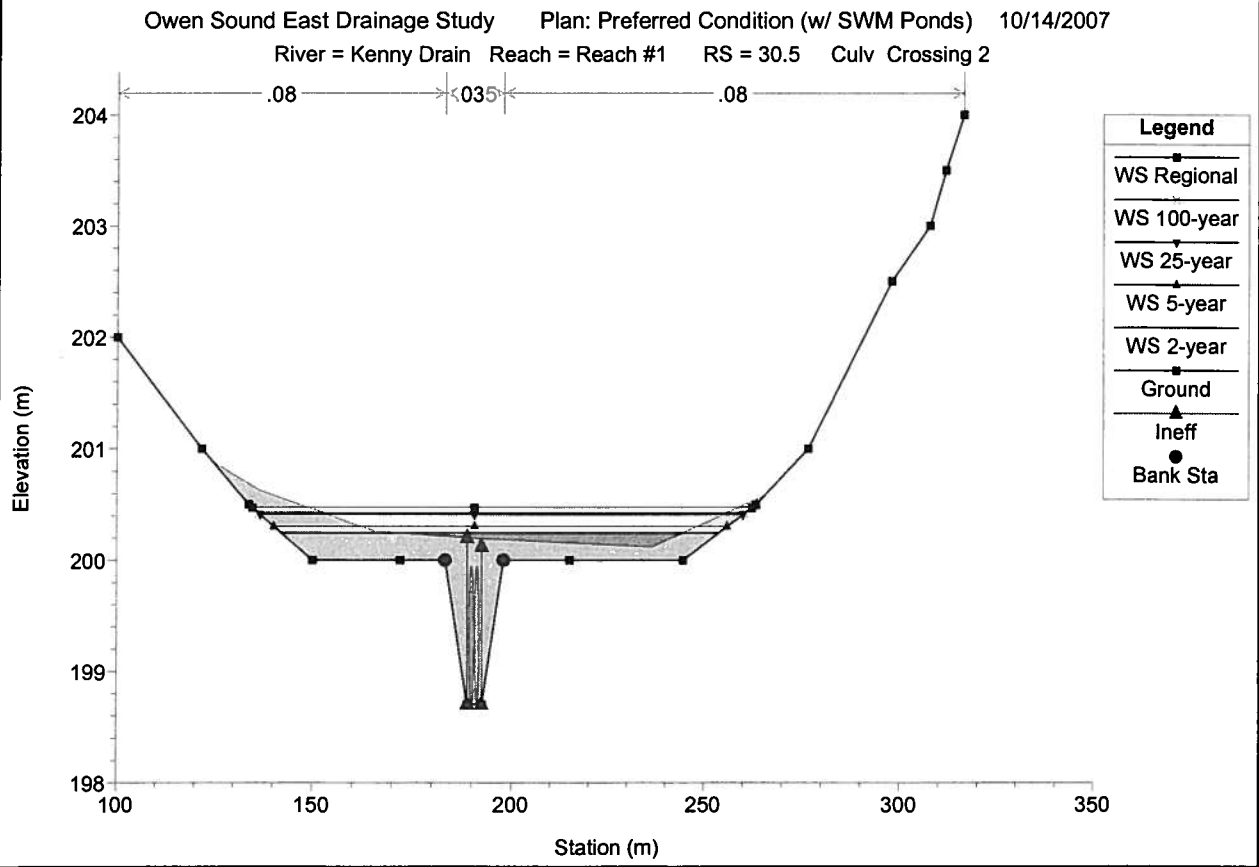
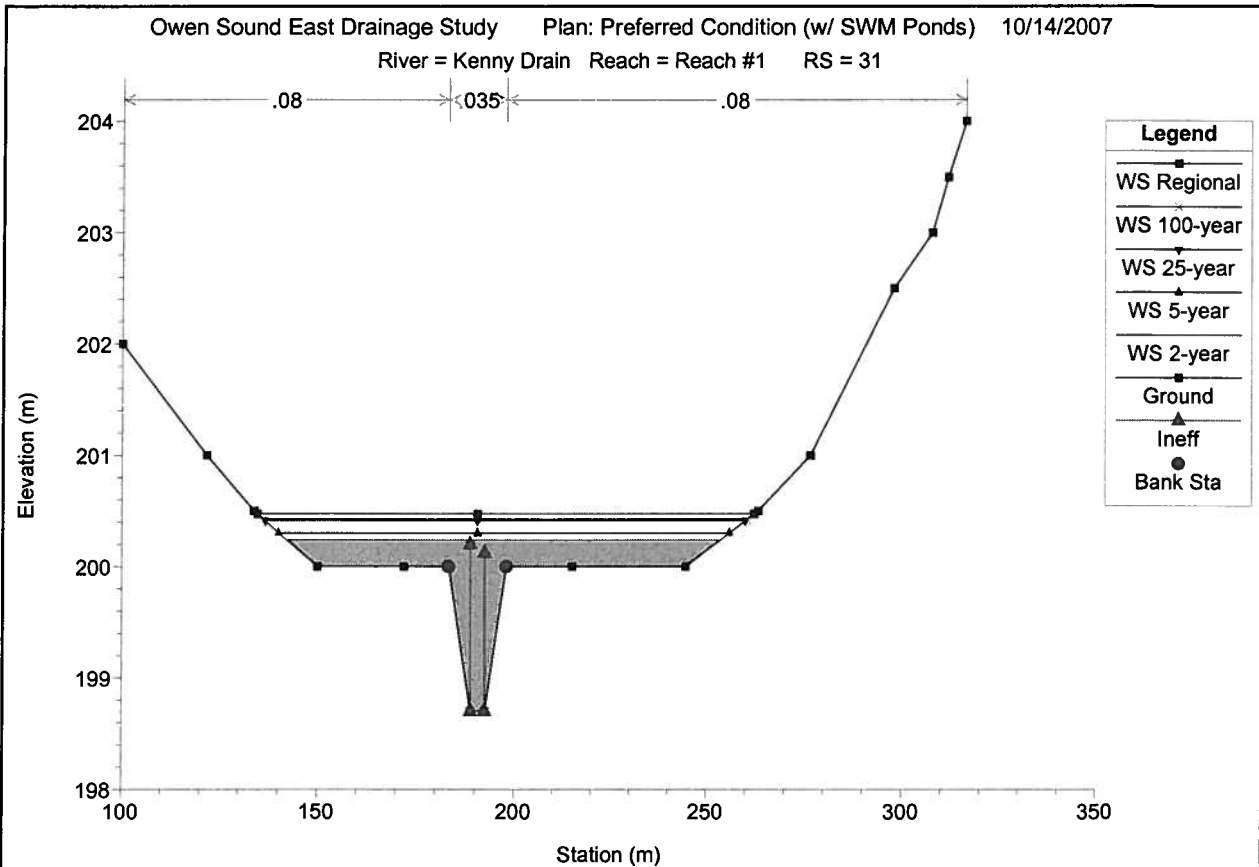


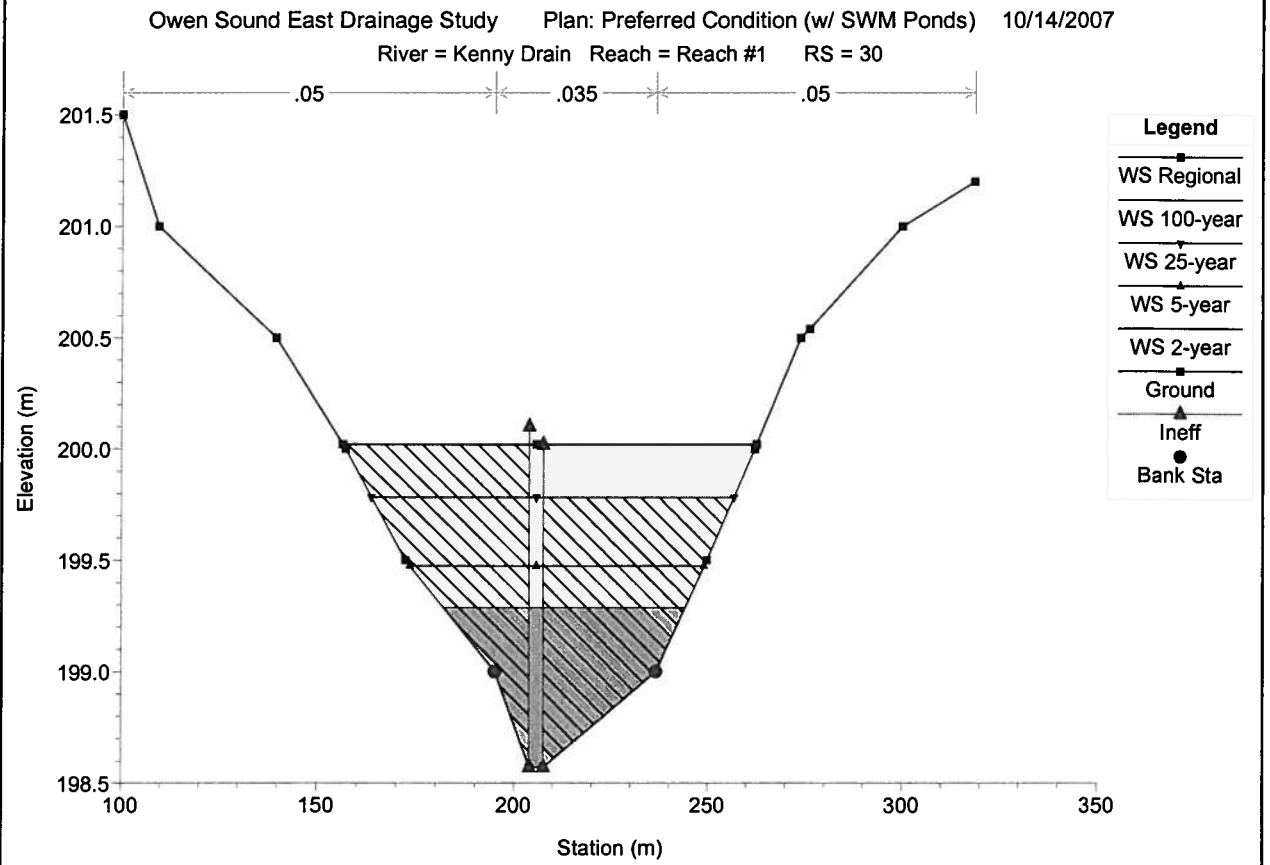
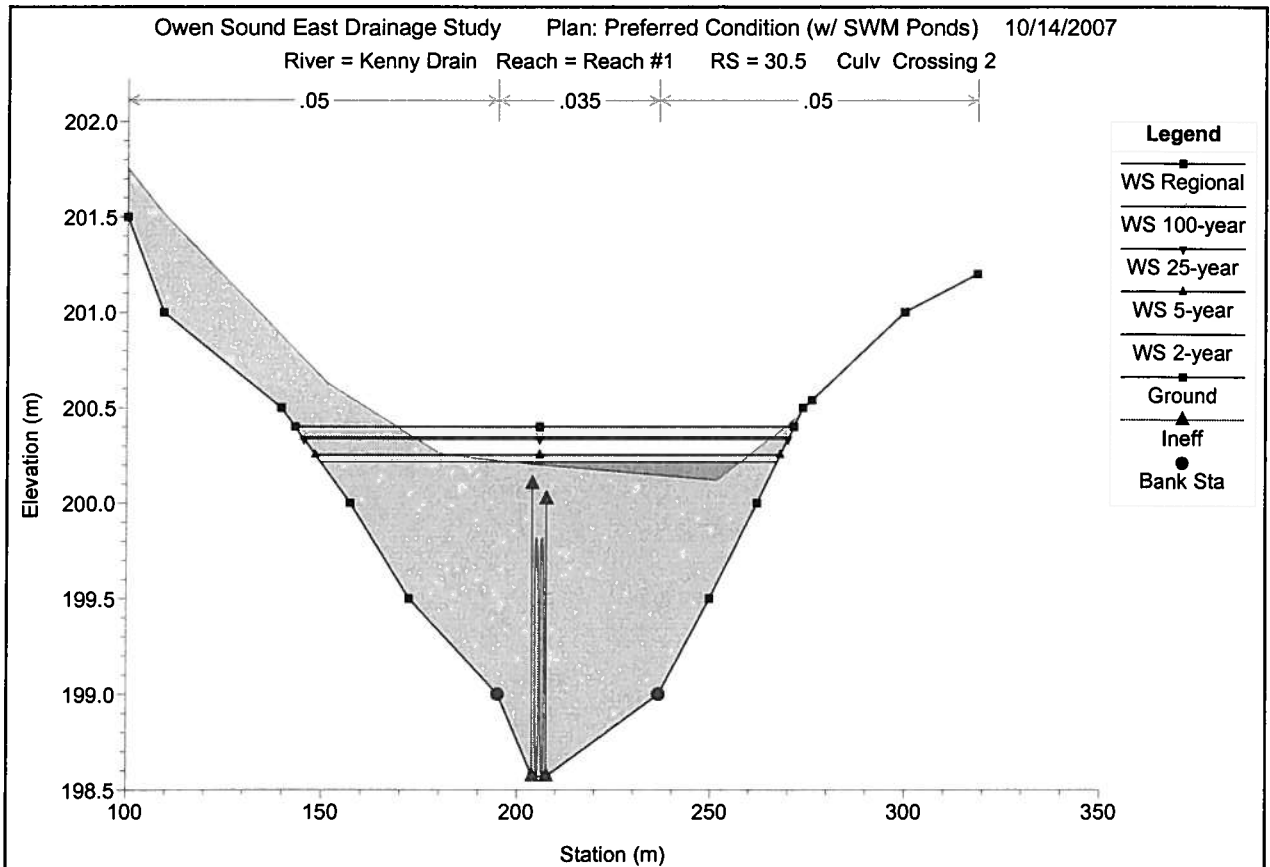


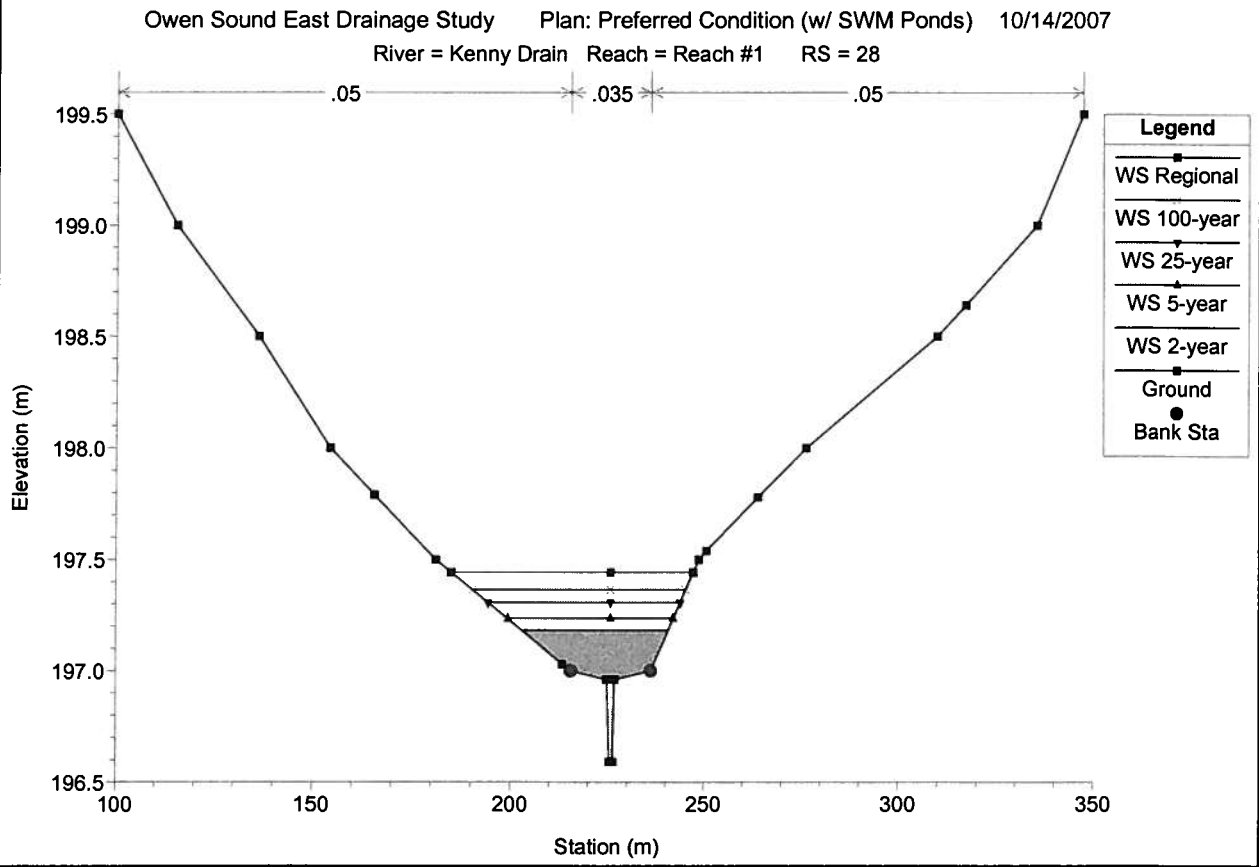
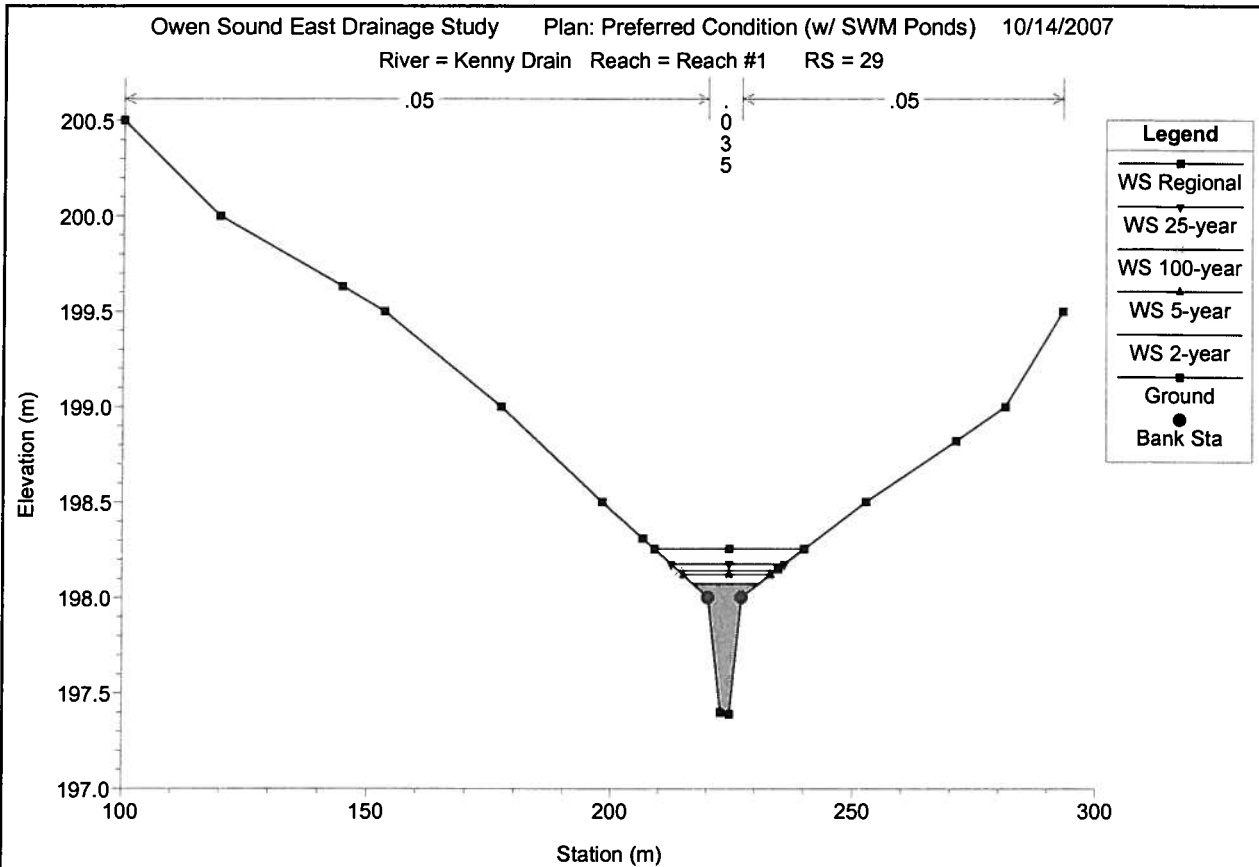




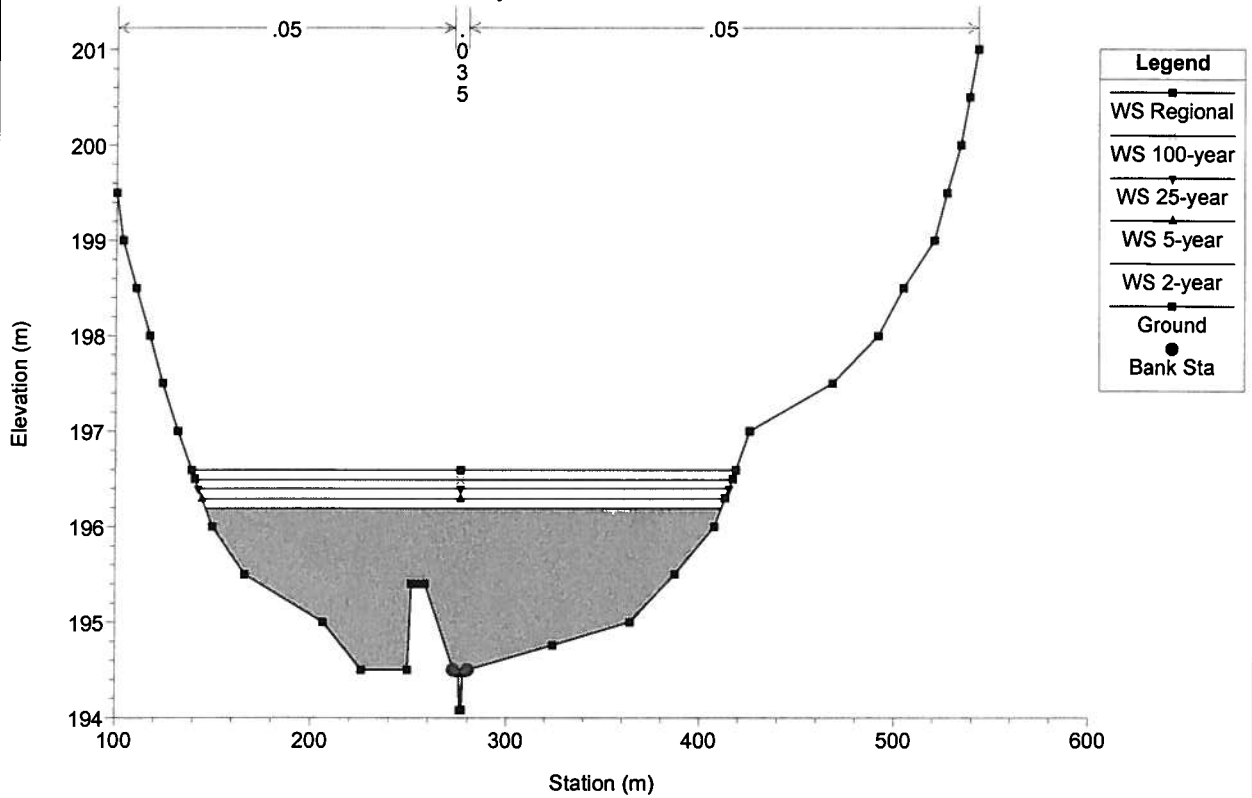




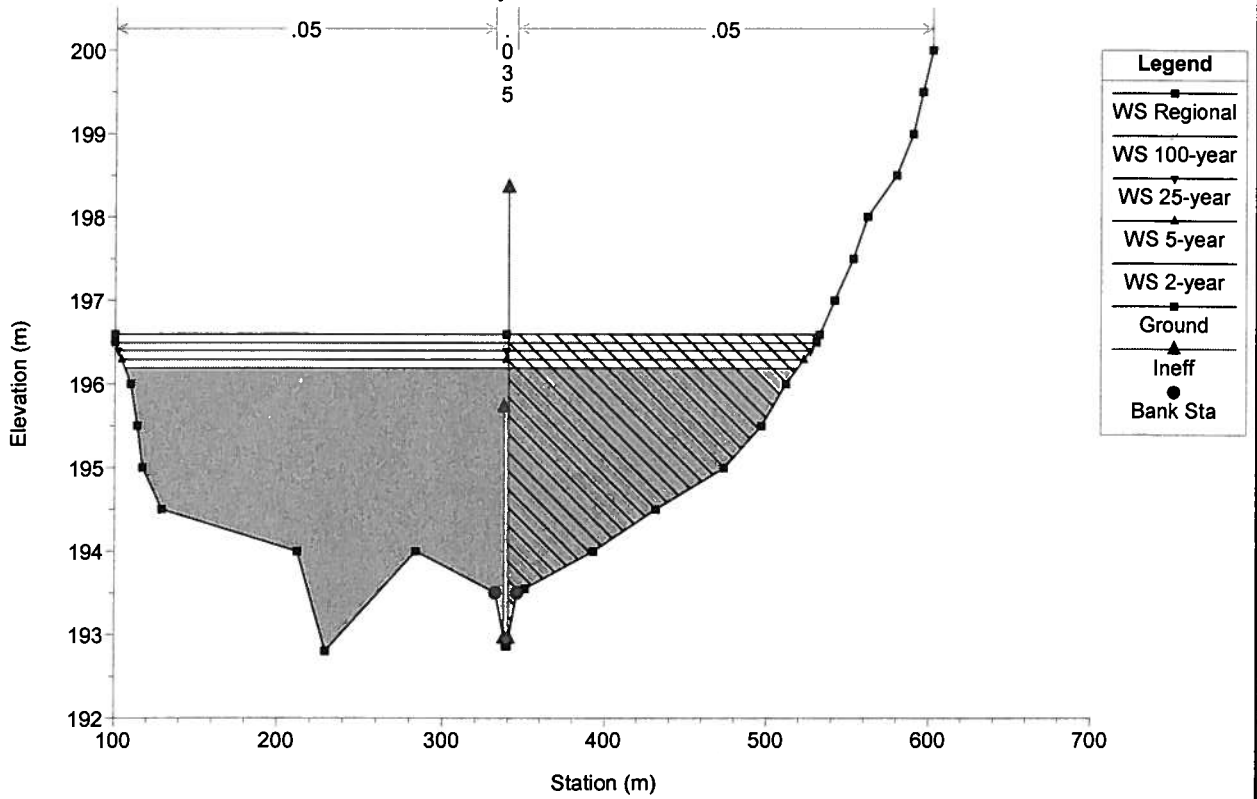




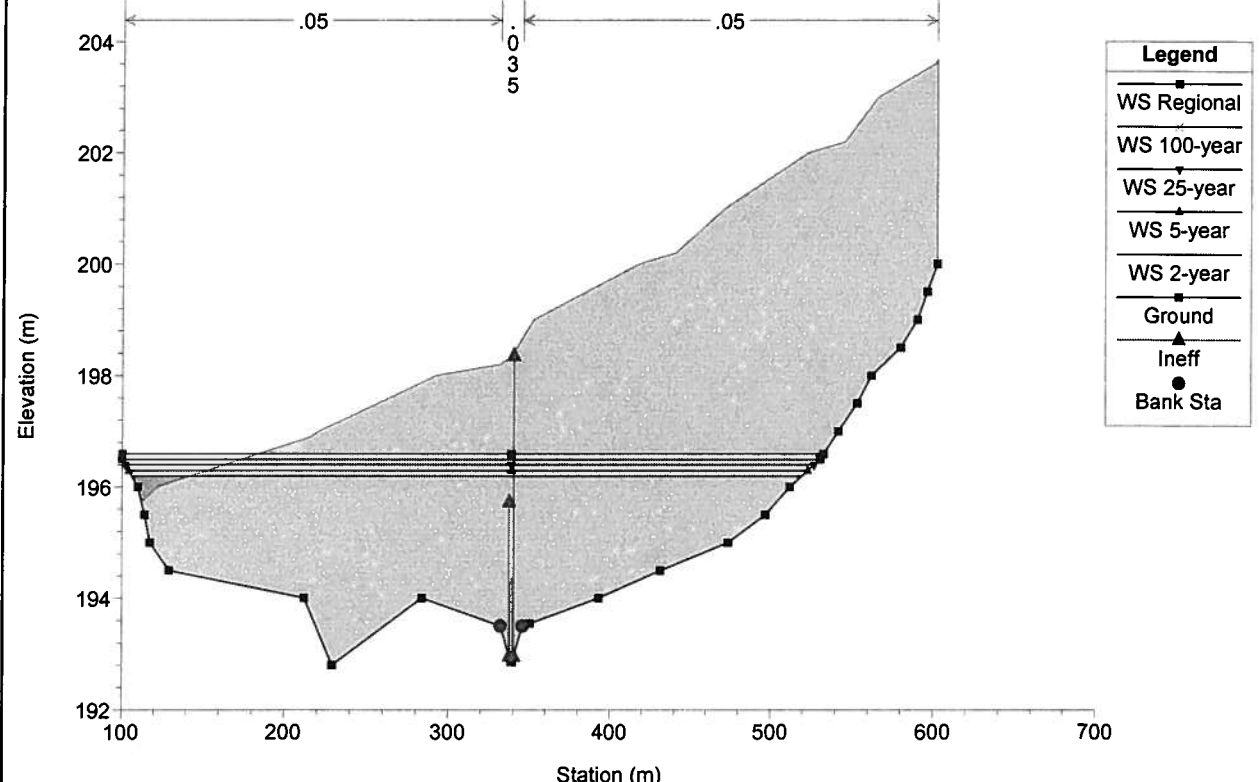
Owen Sound East Drainage Study Plan: Preferred Condition (w/ SWM Ponds) 10/14/2007
 River = Kenny Drain Reach = Reach #1 RS = 25



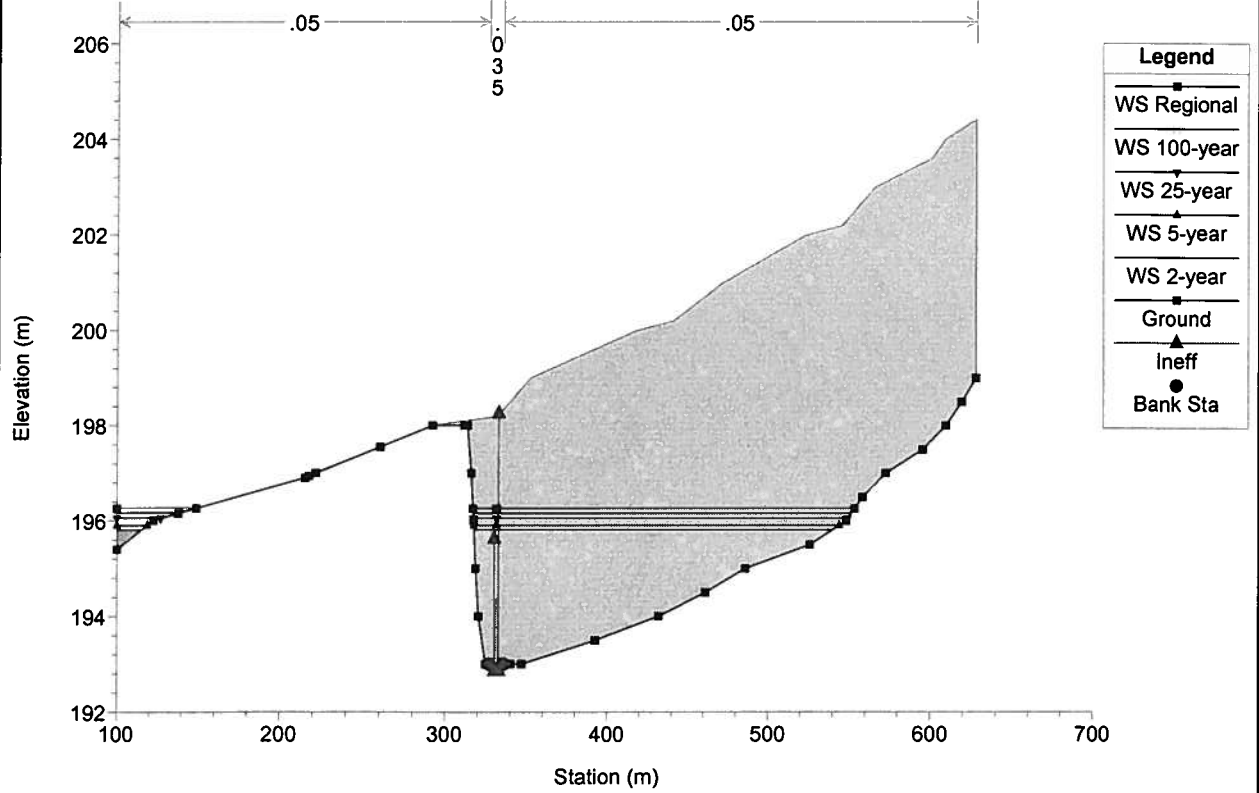
Owen Sound East Drainage Study Plan: Preferred Condition (w/ SWM Ponds) 10/14/2007
 River = Kenny Drain Reach = Reach #1 RS = 24



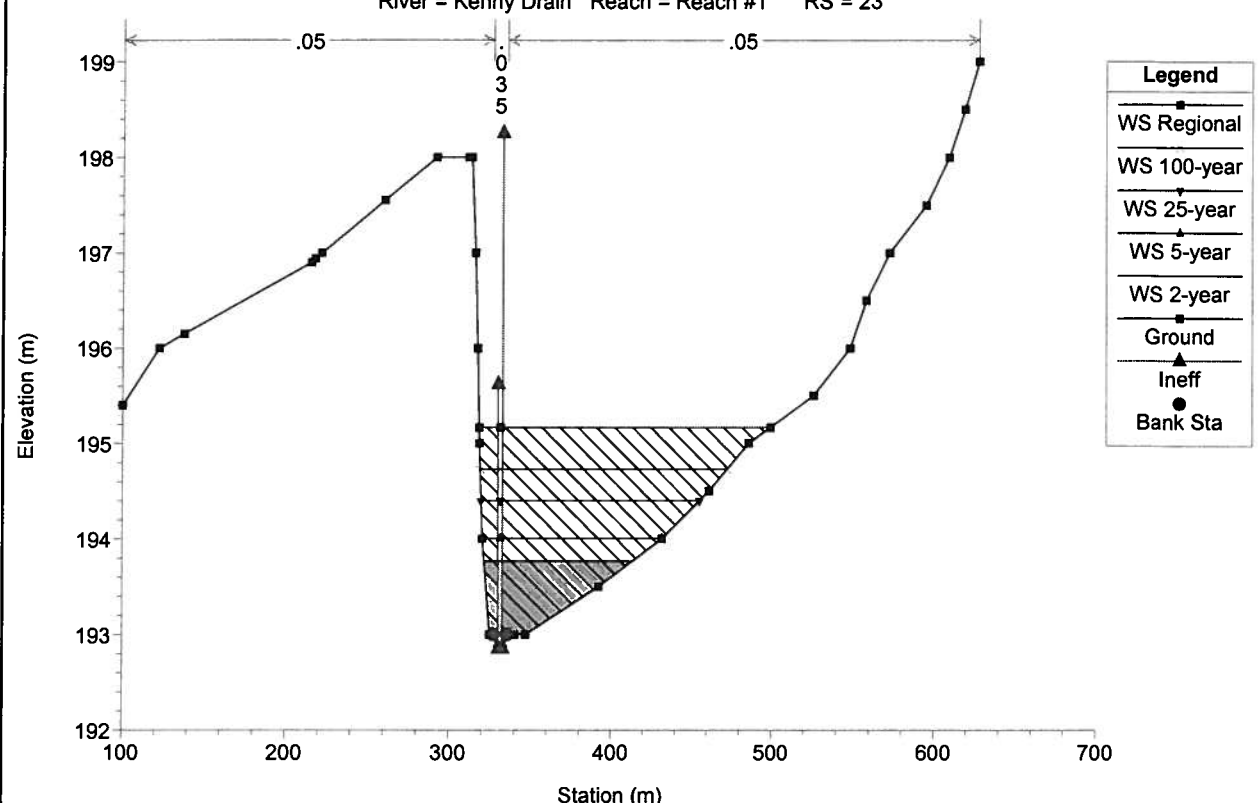
Owen Sound East Drainage Study Plan: Preferred Condition (w/ SWM Ponds) 10/14/2007
 River = Kenny Drain Reach = Reach #1 RS = 23.5 Culv Crossing 3



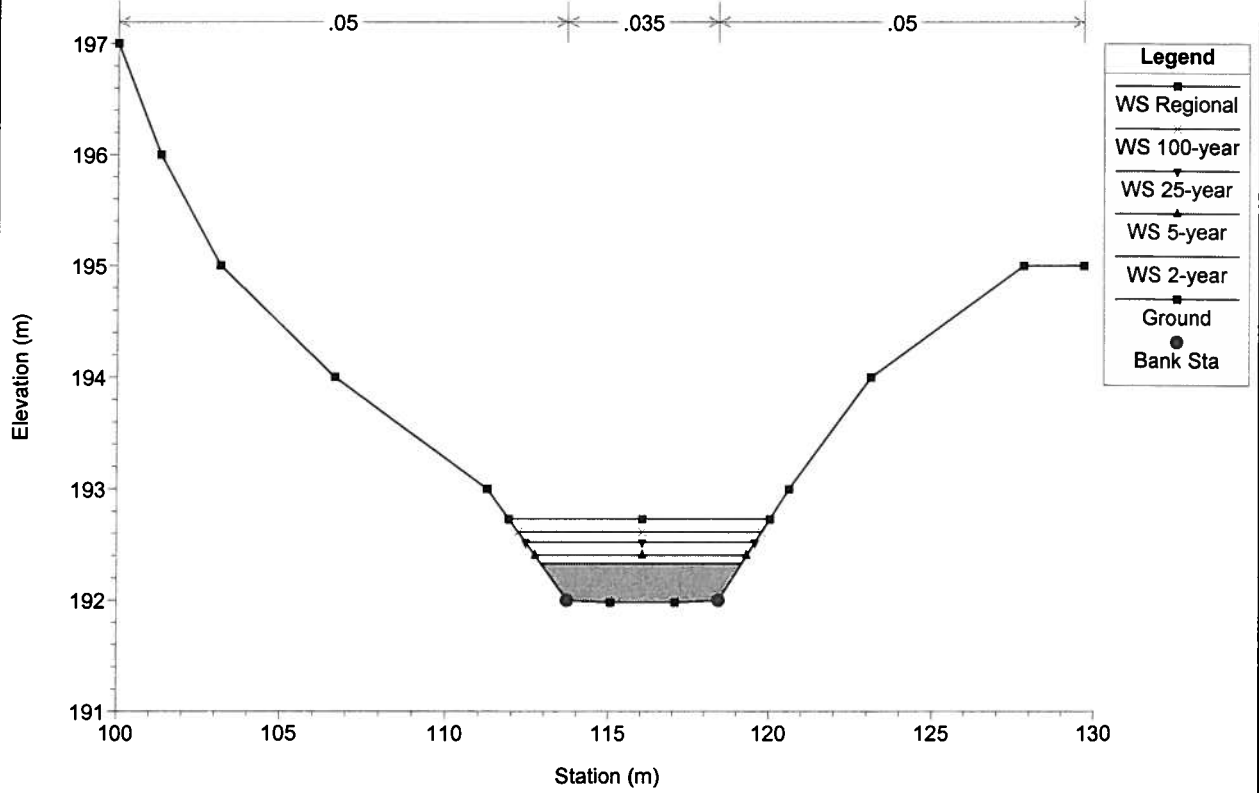
Owen Sound East Drainage Study Plan: Preferred Condition (w/ SWM Ponds) 10/14/2007
 River = Kenny Drain Reach = Reach #1 RS = 23.5 Culv Crossing 3

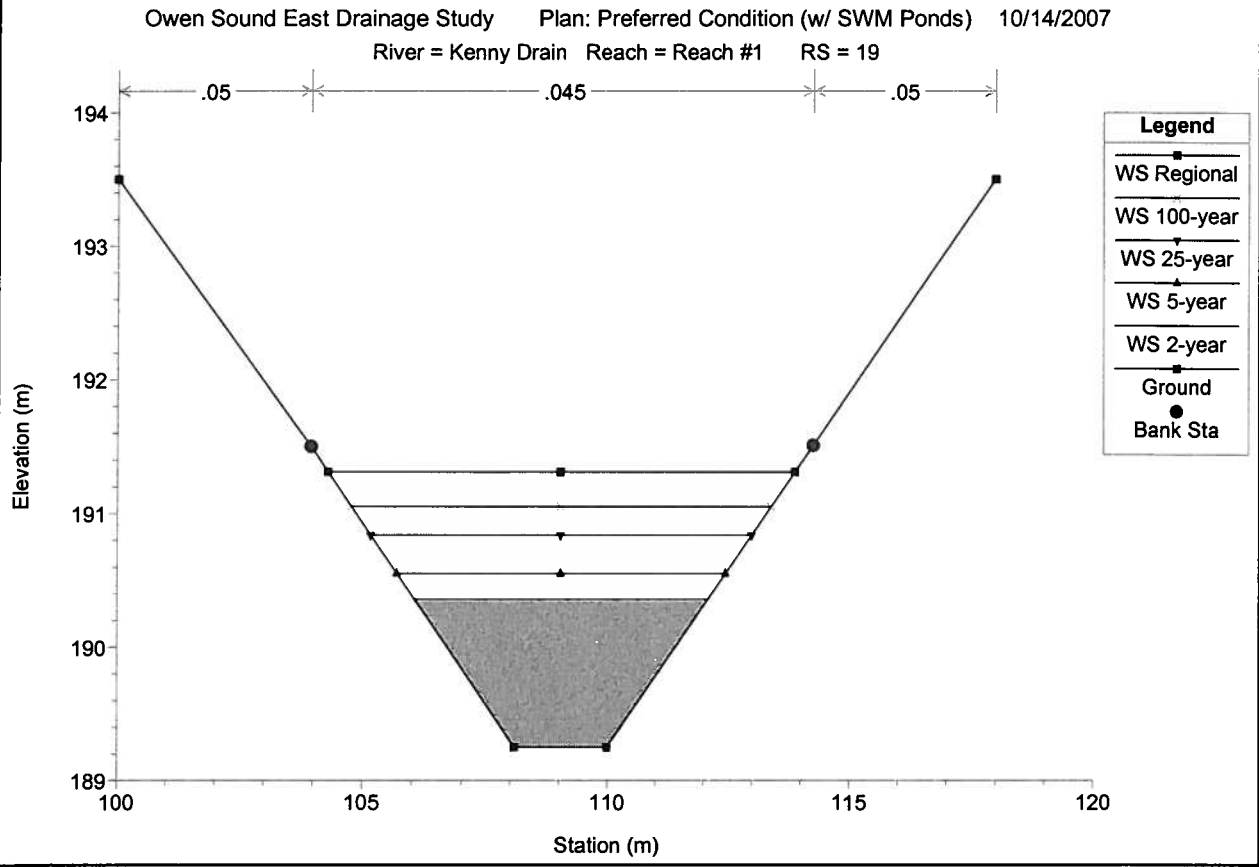
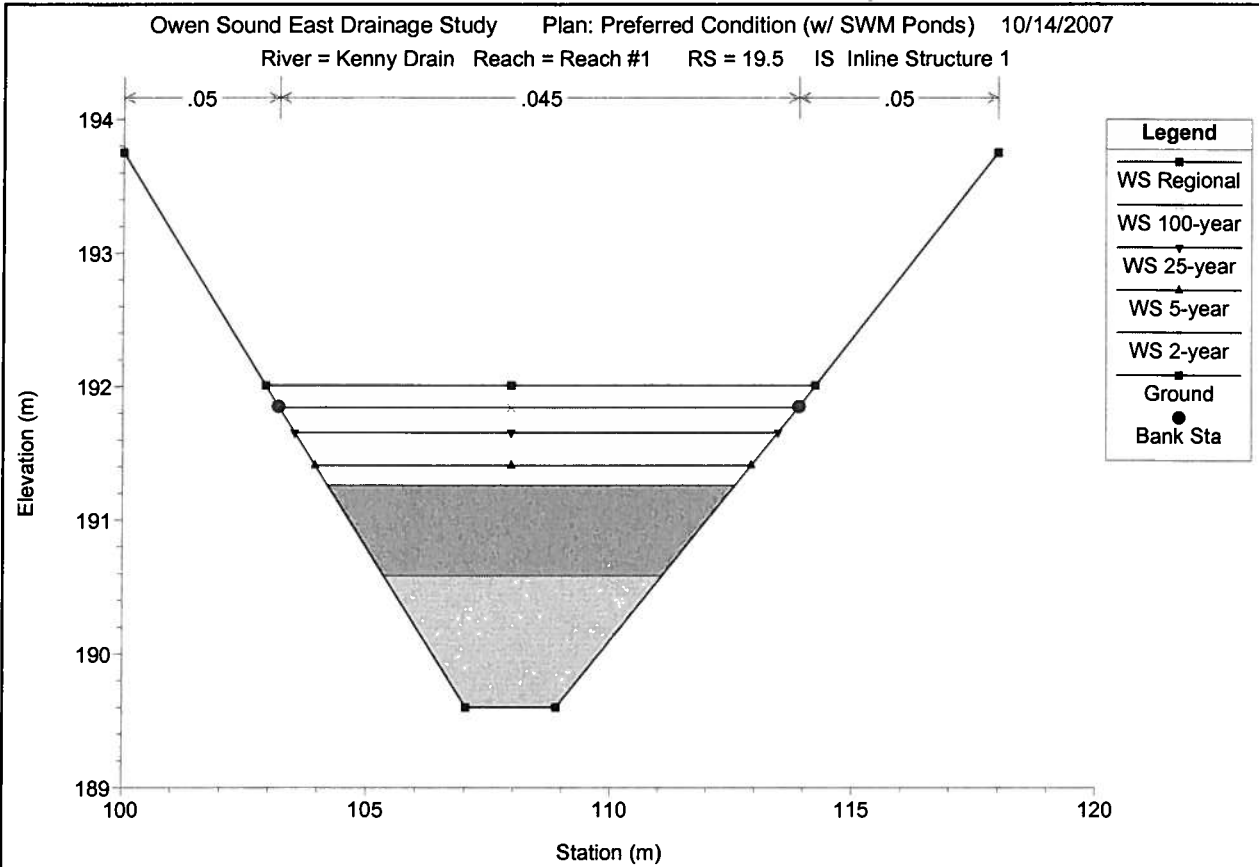


Owen Sound East Drainage Study Plan: Preferred Condition (w/ SWM Ponds) 10/14/2007
 River = Kenny Drain Reach = Reach #1 RS = 23

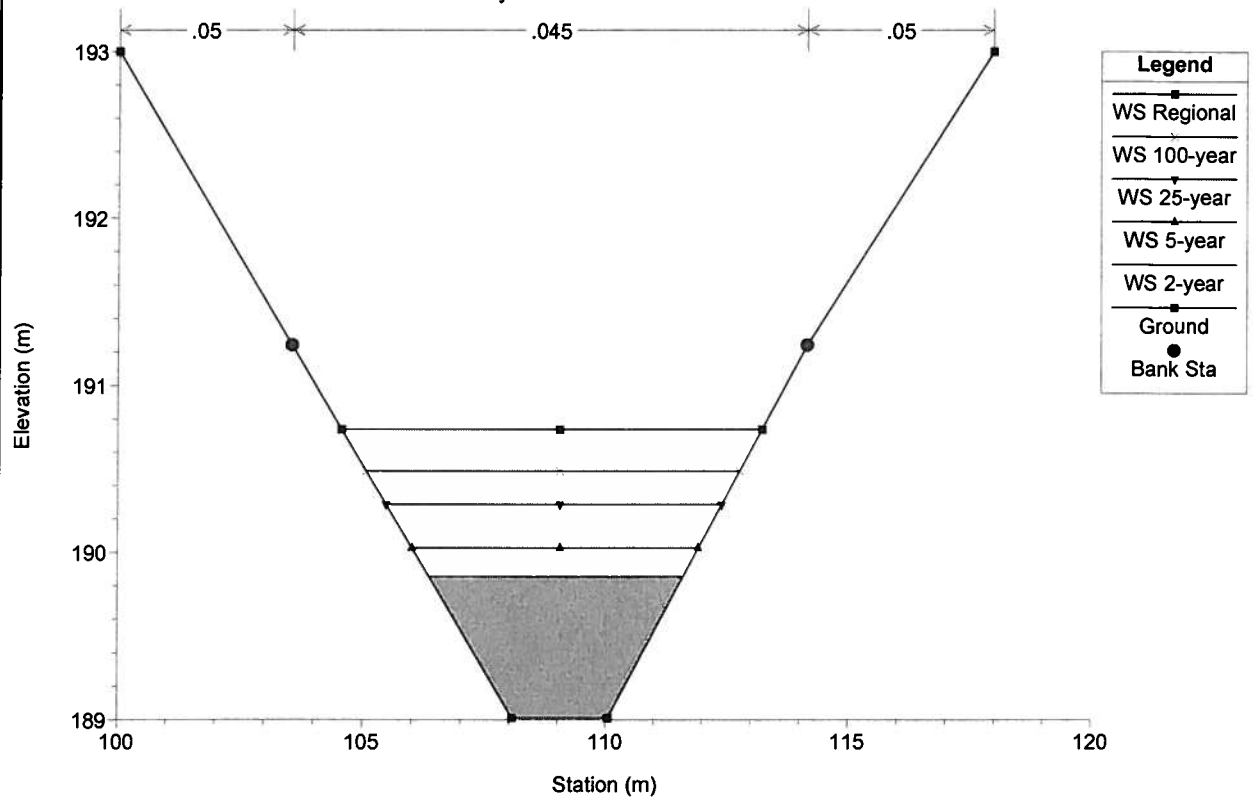


Owen Sound East Drainage Study Plan: Preferred Condition (w/ SWM Ponds) 10/14/2007
 River = Kenny Drain Reach = Reach #1 RS = 22

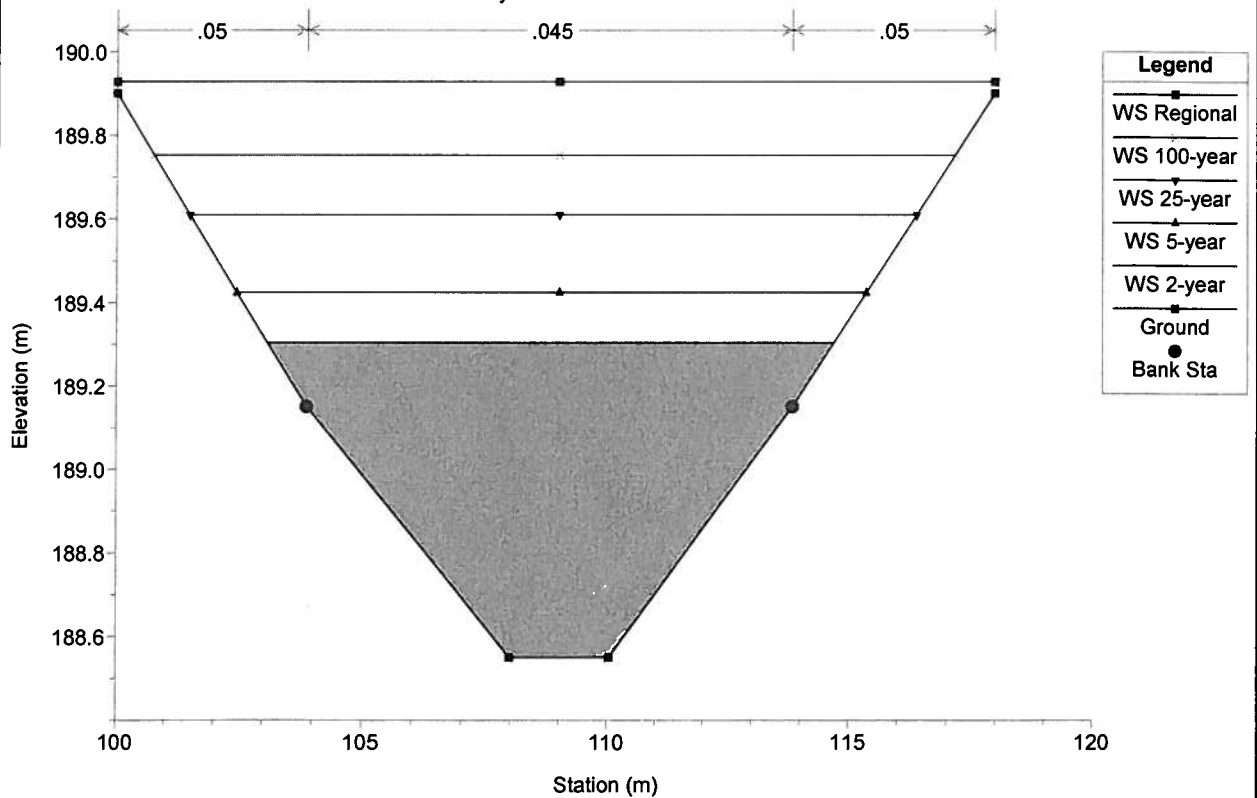




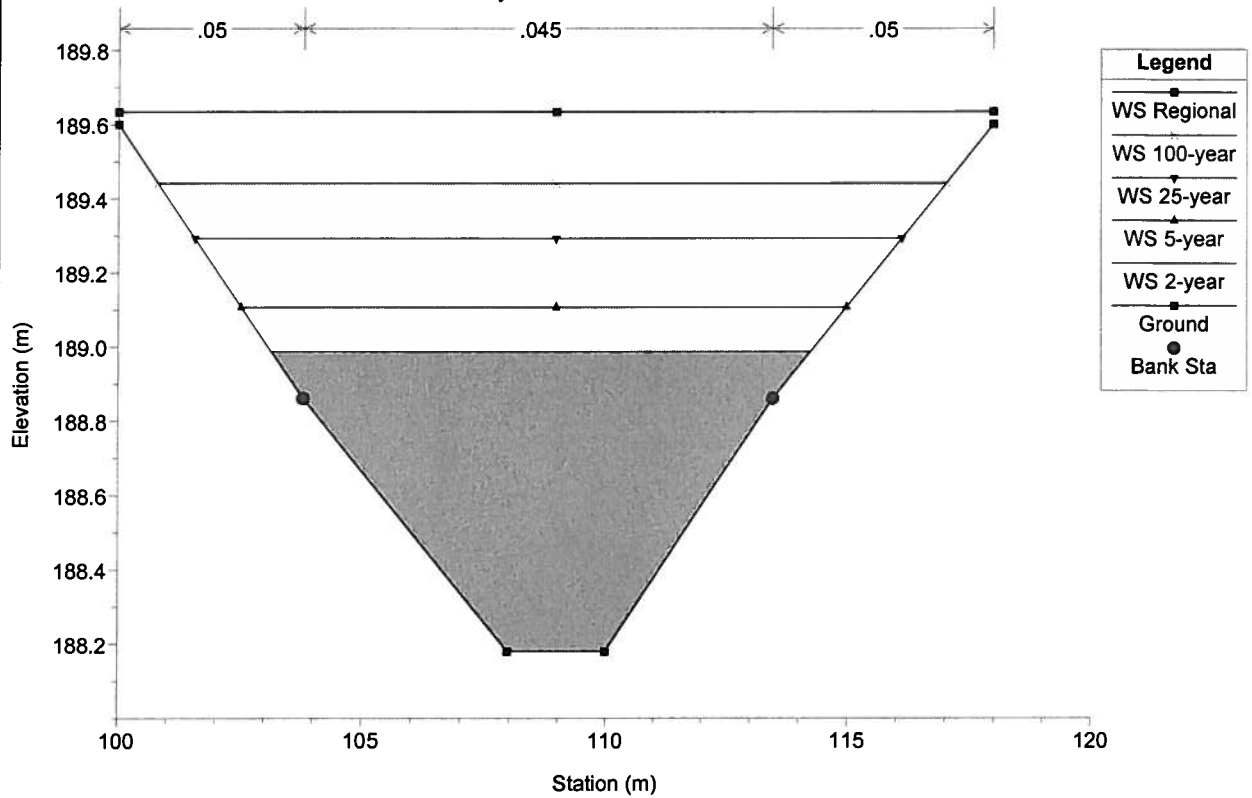
Owen Sound East Drainage Study Plan: Preferred Condition (w/ SWM Ponds) 10/14/2007
 River = Kenny Drain Reach = Reach #1 RS = 18



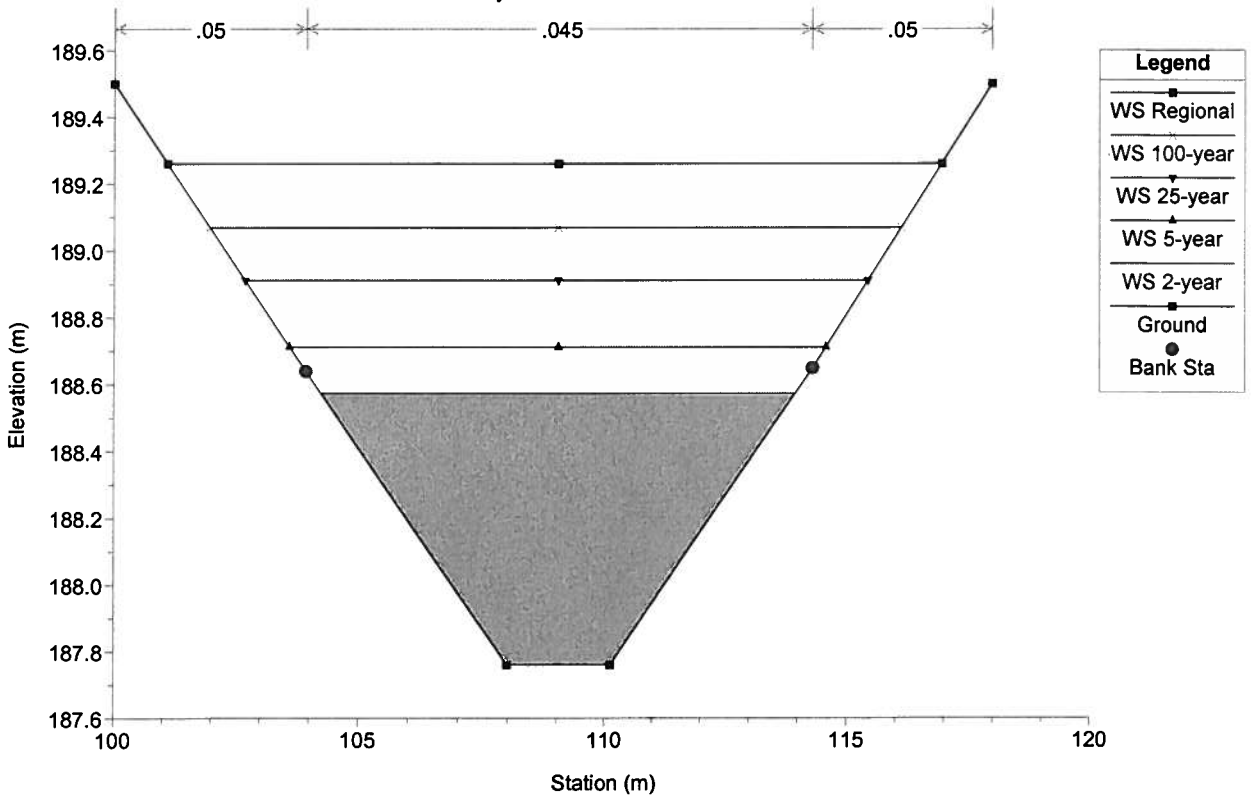
Owen Sound East Drainage Study Plan: Preferred Condition (w/ SWM Ponds) 10/14/2007
 River = Kenny Drain Reach = Reach #1 RS = 17

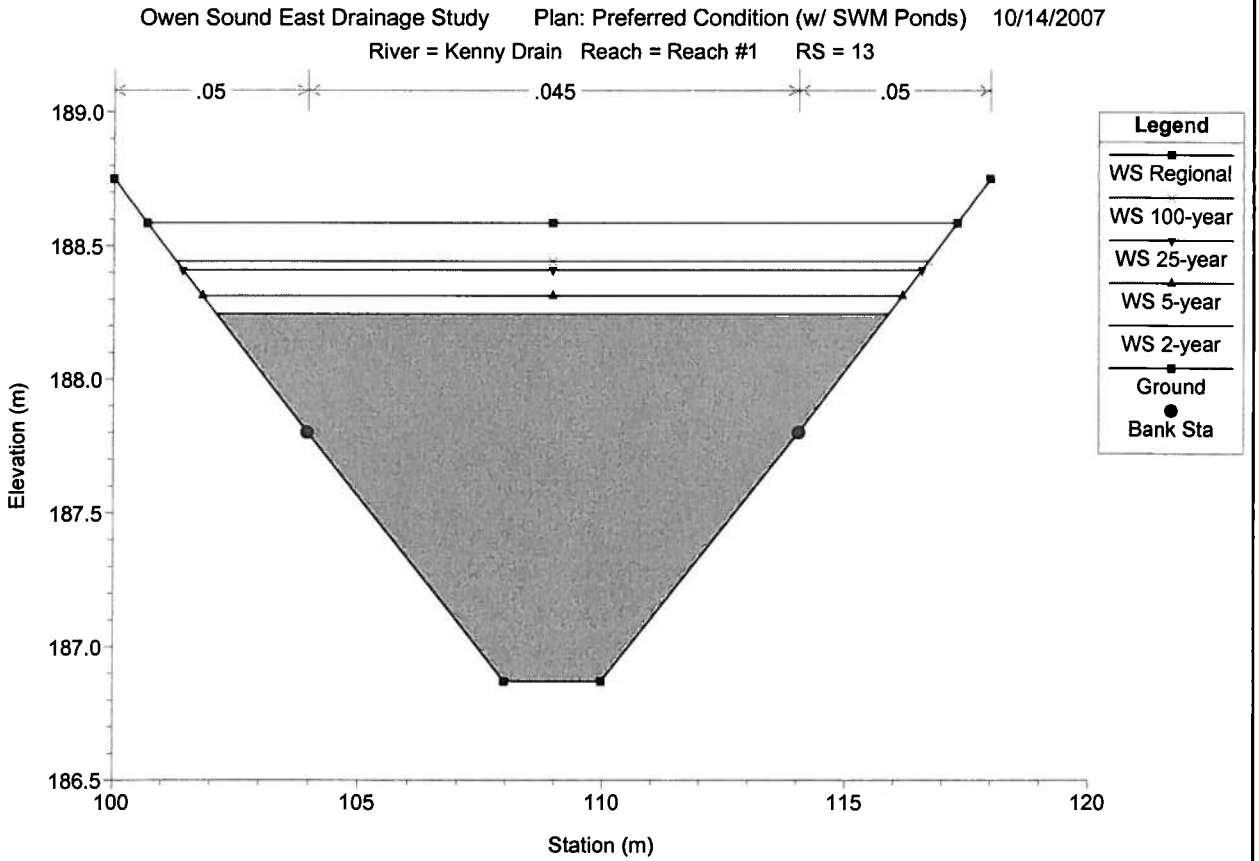
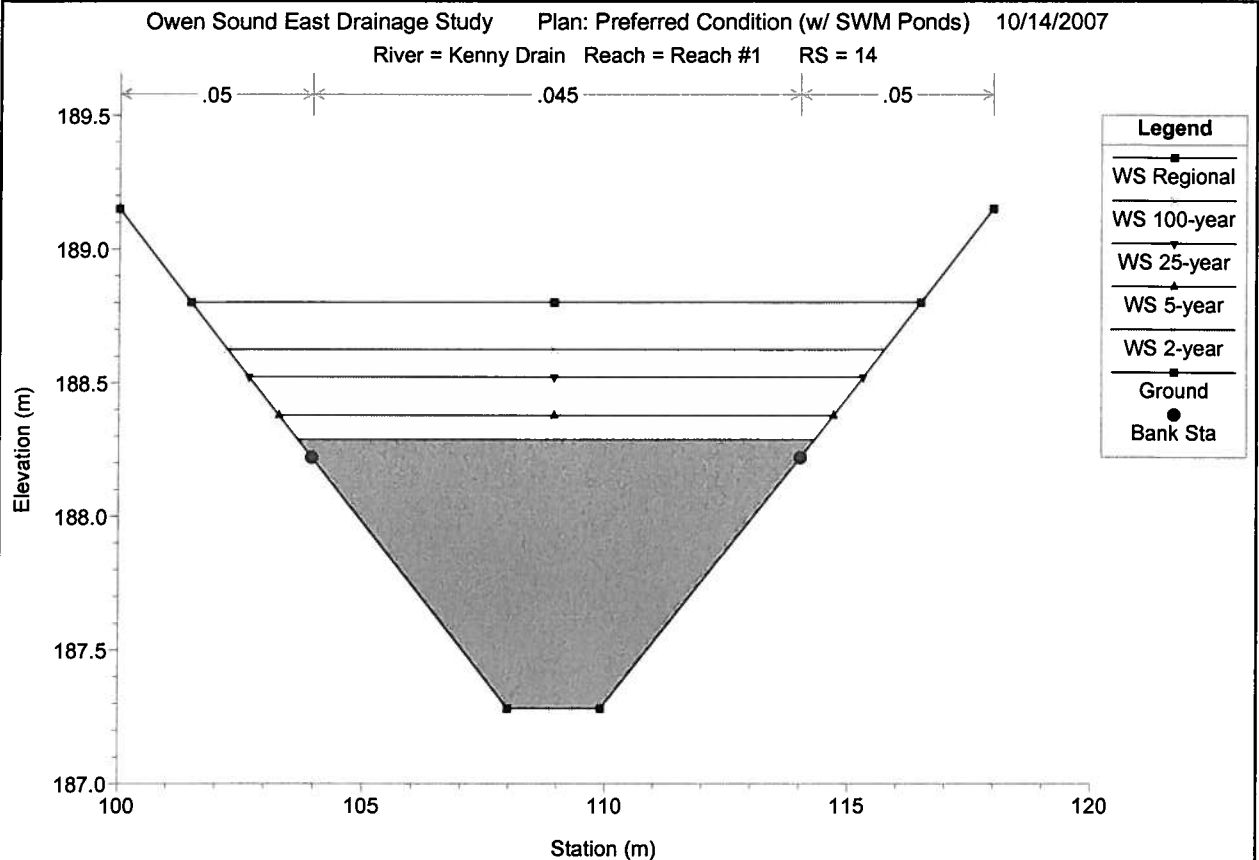


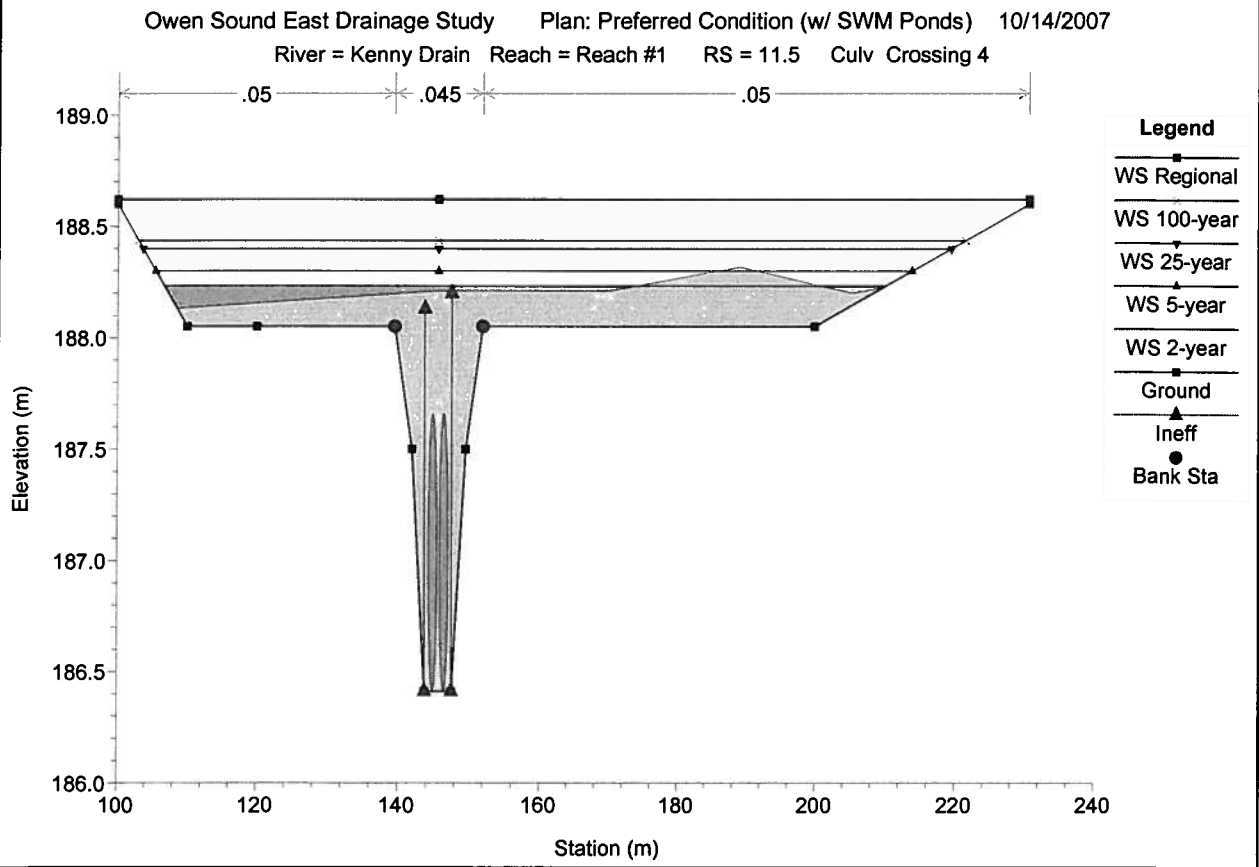
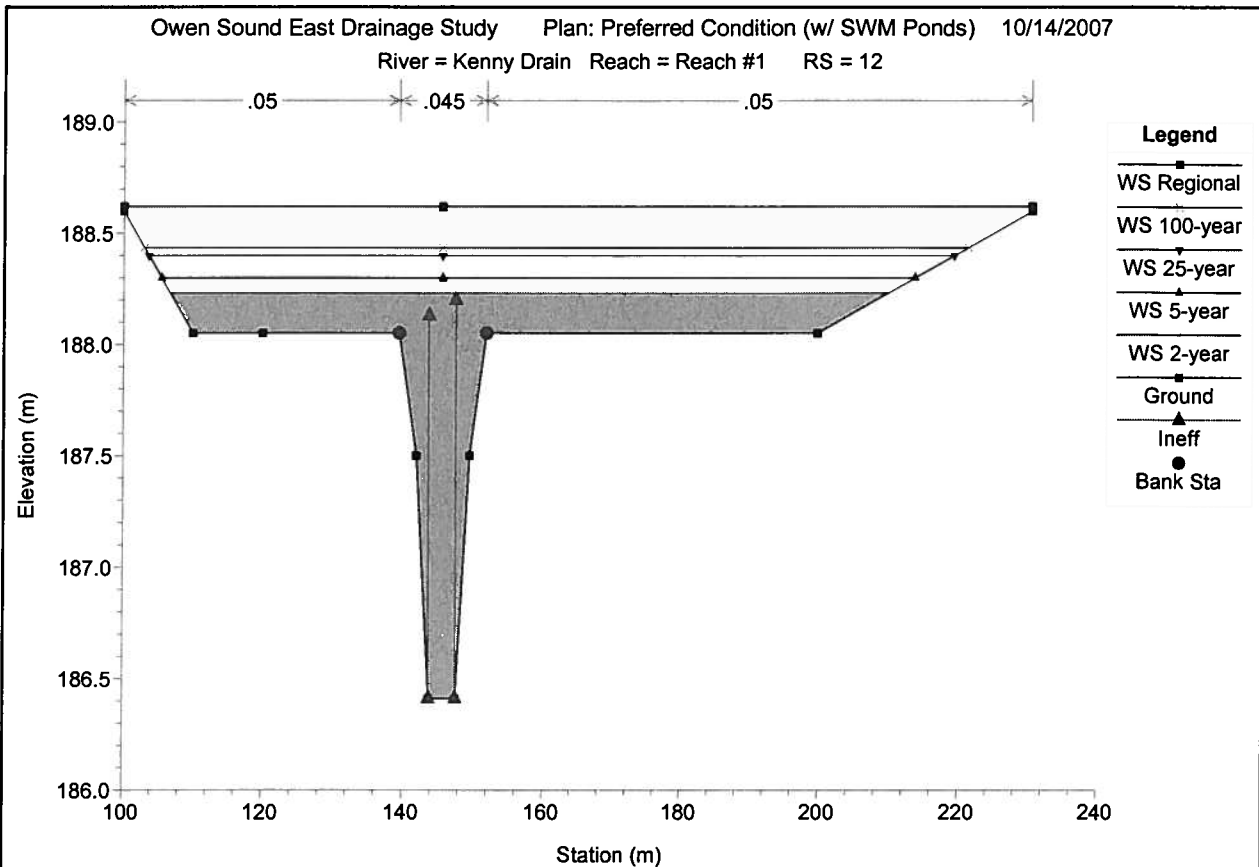
Owen Sound East Drainage Study Plan: Preferred Condition (w/ SWM Ponds) 10/14/2007
 River = Kenny Drain Reach = Reach #1 RS = 16

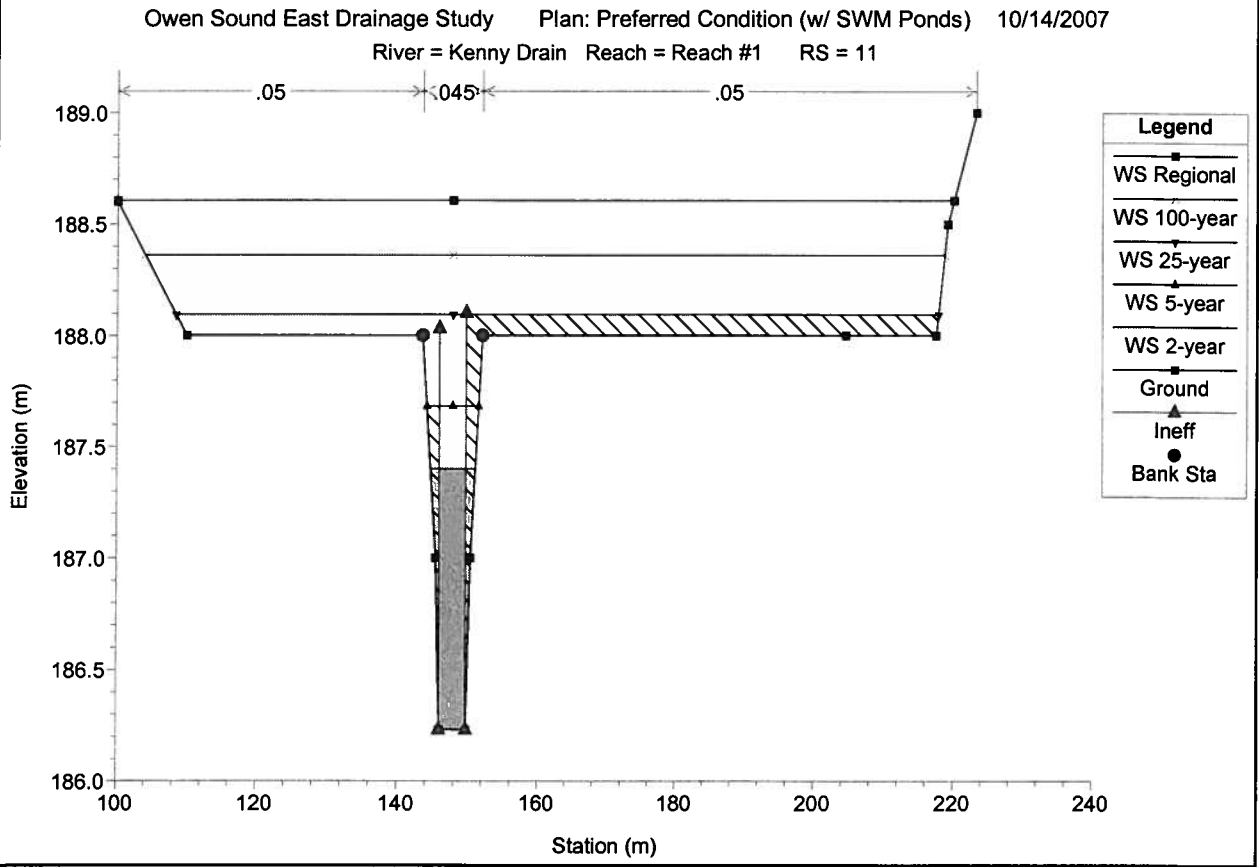
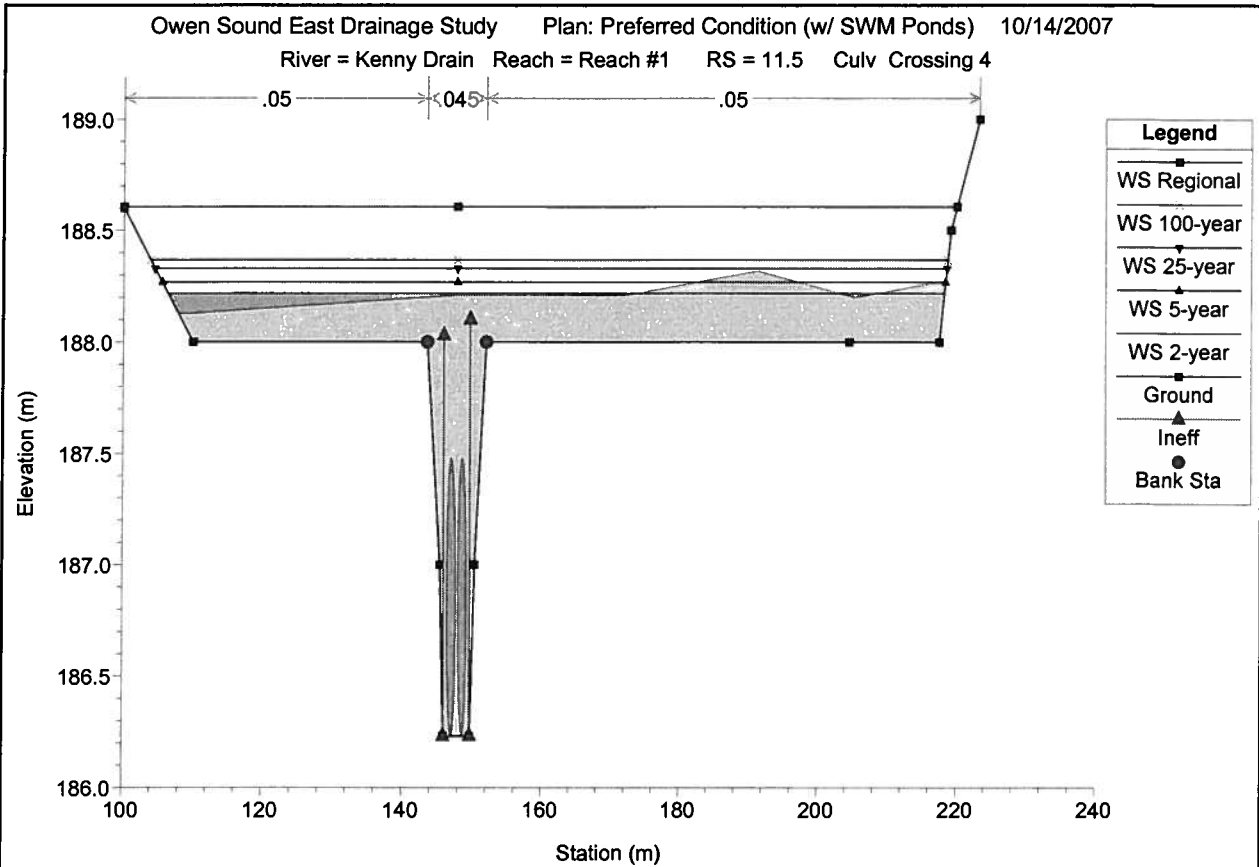


Owen Sound East Drainage Study Plan: Preferred Condition (w/ SWM Ponds) 10/14/2007
 River = Kenny Drain Reach = Reach #1 RS = 15



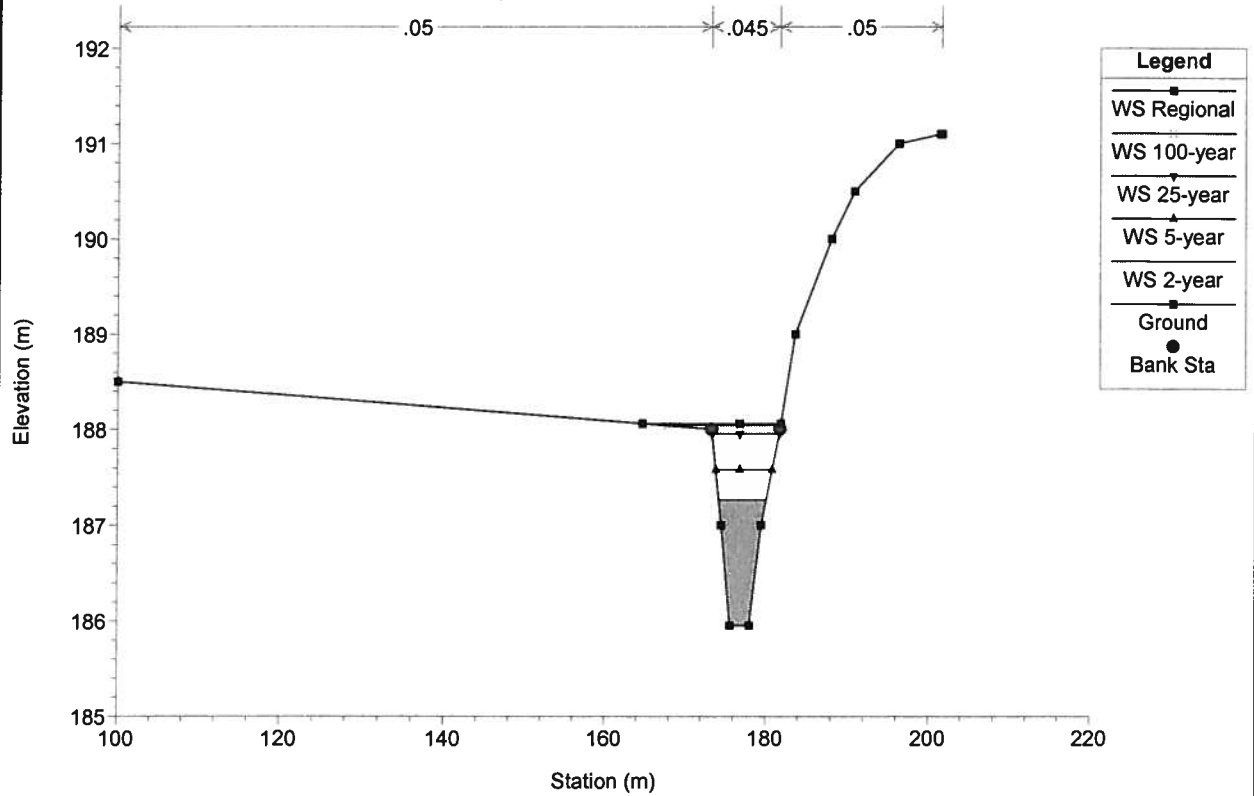






Owen Sound East Drainage Study Plan: Preferred Condition (w/ SWM Ponds) 10/14/2007

River = Kenny Drain Reach = Reach #1 RS = 10



Owen Sound East Drainage Study Plan: Preferred Condition (w/ SWM Ponds) 10/14/2007

River = Kenny Drain Reach = Reach #1 RS = 9

