

# WAIPAOA RIVER - TE KARAKA TOWNSHIP - WESTERN SIDE

## VOLUME REPORT - AVERAGE END CALCULATION AREA

Alignment: **Western Alignment - Avoidance** / 05.06.2026

Sample Line Group: SL Collection - WESTERN V08 Part

Start Sta: 1+744.515

End Sta: 4+595.982



| <b><u>Station</u></b> | <b><u>Cut Area</u></b><br><b><u>.(Sq.m.)</u></b> | <b><u>Cut</u></b><br><b><u>Volume</u></b><br><b><u>.(Cu.m.)</u></b> | <b><u>Reusable</u></b><br><b><u>Volume</u></b><br><b><u>.(Cu.m.)</u></b> | <b><u>Fill Area</u></b><br><b><u>.(Sq.m.)</u></b> | <b><u>Fill</u></b><br><b><u>Volume</u></b><br><b><u>.(Cu.m.)</u></b> | <b><u>Cum. Fill</u></b><br><b><u>Vol.</u></b><br><b><u>.(Cu.m.)</u></b> |
|-----------------------|--------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------|
| 1+744.515             | 0.00                                             | 0.00                                                                | 0.00                                                                     | 1.66                                              | 0.00                                                                 | 0.00                                                                    |
| 1+760.000             | 0.00                                             | 0.00                                                                | 0.00                                                                     | 15.96                                             | 136.47                                                               | 136.47                                                                  |
| 1+780.000             | 0.00                                             | 0.00                                                                | 0.00                                                                     | 15.34                                             | 313.05                                                               | 449.52                                                                  |
| 1+800.000             | 0.00                                             | 0.00                                                                | 0.00                                                                     | 16.00                                             | 313.42                                                               | 762.94                                                                  |
| 1+820.000             | 0.00                                             | 0.00                                                                | 0.00                                                                     | 14.82                                             | 308.14                                                               | 1071.08                                                                 |
| 1+840.000             | 0.00                                             | 0.00                                                                | 0.00                                                                     | 18.00                                             | 328.14                                                               | 1399.22                                                                 |
| 1+860.000             | 0.00                                             | 0.00                                                                | 0.00                                                                     | 26.23                                             | 442.29                                                               | 1841.51                                                                 |
| 1+880.000             | 0.00                                             | 0.00                                                                | 0.00                                                                     | 53.85                                             | 800.80                                                               | 2642.31                                                                 |
| 1+900.000             | 0.00                                             | 0.00                                                                | 0.00                                                                     | 67.75                                             | 1215.94                                                              | 3858.25                                                                 |
| 1+920.000             | 0.00                                             | 0.00                                                                | 0.00                                                                     | 71.53                                             | 1392.77                                                              | 5251.02                                                                 |
| 1+940.000             | 0.00                                             | 0.00                                                                | 0.00                                                                     | 70.43                                             | 1419.66                                                              | 6670.68                                                                 |
| 1+960.000             | 0.00                                             | 0.00                                                                | 0.00                                                                     | 71.99                                             | 1428.55                                                              | 8099.22                                                                 |
| 1+980.000             | 0.00                                             | 0.00                                                                | 0.00                                                                     | 69.49                                             | 1416.87                                                              | 9516.10                                                                 |
| 2+000.000             | 0.00                                             | 0.00                                                                | 0.00                                                                     | 68.69                                             | 1381.80                                                              | 10897.90                                                                |
| 2+020.000             | 0.00                                             | 0.00                                                                | 0.00                                                                     | 67.39                                             | 1360.87                                                              | 12258.77                                                                |
| 2+040.000             | 0.00                                             | 0.00                                                                | 0.00                                                                     | 67.93                                             | 1353.21                                                              | 13611.98                                                                |
| 2+060.000             | 0.00                                             | 0.00                                                                | 0.00                                                                     | 65.66                                             | 1335.85                                                              | 14947.83                                                                |
| 2+080.000             | 0.00                                             | 0.00                                                                | 0.00                                                                     | 66.02                                             | 1316.75                                                              | 16264.58                                                                |
| 2+100.000             | 0.00                                             | 0.00                                                                | 0.00                                                                     | 65.00                                             | 1310.15                                                              | 17574.73                                                                |
| 2+120.000             | 0.00                                             | 0.00                                                                | 0.00                                                                     | 64.02                                             | 1290.18                                                              | 18864.91                                                                |
| 2+140.000             | 0.00                                             | 0.00                                                                | 0.00                                                                     | 65.02                                             | 1289.96                                                              | 20154.87                                                                |
| 2+160.000             | 0.00                                             | 0.00                                                                | 0.00                                                                     | 64.42                                             | 1294.97                                                              | 21449.84                                                                |
| 2+180.000             | 0.00                                             | 0.00                                                                | 0.00                                                                     | 55.86                                             | 1202.76                                                              | 22652.61                                                                |
| 2+200.000             | 0.00                                             | 0.00                                                                | 0.00                                                                     | 61.76                                             | 1176.16                                                              | 23828.77                                                                |
| 2+220.000             | 0.00                                             | 0.00                                                                | 0.00                                                                     | 60.28                                             | 1220.39                                                              | 25049.17                                                                |
| 2+240.000             | 0.00                                             | 0.00                                                                | 0.00                                                                     | 60.14                                             | 1204.25                                                              | 26253.41                                                                |
| 2+260.000             | 0.00                                             | 0.00                                                                | 0.00                                                                     | 60.03                                             | 1201.77                                                              | 27455.18                                                                |
| 2+280.000             | 0.00                                             | 0.00                                                                | 0.00                                                                     | 51.76                                             | 1117.90                                                              | 28573.07                                                                |
| 2+300.000             | 0.00                                             | 0.00                                                                | 0.00                                                                     | 53.86                                             | 1056.11                                                              | 29629.19                                                                |
| 2+320.000             | 0.00                                             | 0.00                                                                | 0.00                                                                     | 53.44                                             | 1072.95                                                              | 30702.13                                                                |
| 2+340.000             | 0.00                                             | 0.00                                                                | 0.00                                                                     | 57.43                                             | 1108.68                                                              | 31810.82                                                                |
| 2+360.000             | 0.00                                             | 0.00                                                                | 0.00                                                                     | 58.35                                             | 1157.75                                                              | 32968.56                                                                |

|           |      |      |      |       |         |          |
|-----------|------|------|------|-------|---------|----------|
| 2+380.000 | 0.00 | 0.00 | 0.00 | 56.89 | 1152.32 | 34120.89 |
| 2+400.000 | 0.00 | 0.00 | 0.00 | 55.95 | 1128.37 | 35249.26 |
| 2+420.000 | 0.00 | 0.00 | 0.00 | 56.70 | 1126.58 | 36375.83 |
| 2+440.000 | 0.00 | 0.00 | 0.00 | 55.20 | 1119.09 | 37494.92 |
| 2+460.000 | 0.00 | 0.00 | 0.00 | 55.37 | 1105.73 | 38600.65 |
| 2+480.000 | 0.00 | 0.00 | 0.00 | 57.15 | 1125.19 | 39725.84 |
| 2+500.000 | 0.00 | 0.00 | 0.00 | 58.20 | 1153.46 | 40879.30 |
| 2+520.000 | 0.00 | 0.00 | 0.00 | 55.47 | 1136.63 | 42015.93 |
| 2+540.000 | 0.00 | 0.00 | 0.00 | 54.48 | 1099.49 | 43115.42 |
| 2+560.000 | 0.00 | 0.00 | 0.00 | 54.24 | 1087.18 | 44202.60 |
| 2+580.000 | 0.00 | 0.00 | 0.00 | 55.05 | 1092.84 | 45295.44 |
| 2+600.000 | 0.00 | 0.00 | 0.00 | 54.18 | 1092.32 | 46387.77 |
| 2+620.000 | 0.00 | 0.00 | 0.00 | 52.60 | 1067.84 | 47455.61 |
| 2+640.000 | 0.00 | 0.00 | 0.00 | 52.65 | 1052.45 | 48508.06 |
| 2+660.000 | 0.00 | 0.00 | 0.00 | 51.32 | 1039.60 | 49547.65 |
| 2+680.000 | 0.00 | 0.00 | 0.00 | 50.03 | 1013.52 | 50561.18 |
| 2+700.000 | 0.00 | 0.00 | 0.00 | 48.56 | 985.84  | 51547.02 |
| 2+720.000 | 0.00 | 0.00 | 0.00 | 47.64 | 958.20  | 52505.22 |
| 2+740.000 | 0.00 | 0.00 | 0.00 | 47.35 | 949.92  | 53455.14 |
| 2+760.000 | 0.00 | 0.00 | 0.00 | 38.63 | 853.90  | 54309.04 |
| 2+780.000 | 0.00 | 0.00 | 0.00 | 35.51 | 741.09  | 55050.13 |
| 2+800.000 | 0.00 | 0.00 | 0.00 | 49.22 | 847.25  | 55897.38 |
| 2+820.000 | 0.00 | 0.00 | 0.00 | 56.23 | 1136.49 | 57033.88 |
| 2+840.000 | 0.00 | 0.00 | 0.00 | 38.02 | 950.56  | 57984.43 |
| 2+860.000 | 0.00 | 0.00 | 0.00 | 41.03 | 821.84  | 58806.27 |
| 2+880.000 | 0.00 | 0.00 | 0.00 | 37.42 | 784.48  | 59590.75 |
| 2+900.000 | 0.00 | 0.00 | 0.00 | 35.92 | 733.47  | 60324.22 |
| 2+920.000 | 0.00 | 0.00 | 0.00 | 30.48 | 659.82  | 60984.04 |
| 2+940.000 | 0.00 | 0.00 | 0.00 | 31.71 | 637.05  | 61621.10 |
| 2+960.000 | 0.00 | 0.00 | 0.00 | 34.90 | 678.64  | 62299.74 |
| 2+980.000 | 0.00 | 0.00 | 0.00 | 39.14 | 735.90  | 63035.63 |
| 3+000.000 | 0.00 | 0.00 | 0.00 | 35.86 | 745.50  | 63781.14 |
| 3+020.000 | 0.00 | 0.00 | 0.00 | 21.06 | 569.15  | 64350.28 |
| 3+040.000 | 0.00 | 0.00 | 0.00 | 33.44 | 537.67  | 64887.95 |
| 3+060.000 | 0.00 | 0.00 | 0.00 | 32.62 | 643.85  | 65531.80 |
| 3+080.000 | 0.00 | 0.00 | 0.00 | 27.70 | 619.75  | 66151.56 |
| 3+100.000 | 0.00 | 0.00 | 0.00 | 31.78 | 611.24  | 66762.79 |
| 3+120.000 | 0.00 | 0.00 | 0.00 | 36.53 | 690.73  | 67453.53 |
| 3+140.000 | 0.00 | 0.00 | 0.00 | 38.47 | 750.00  | 68203.53 |
| 3+160.000 | 0.00 | 0.00 | 0.00 | 36.02 | 739.15  | 68942.68 |
| 3+180.000 | 0.00 | 0.00 | 0.00 | 54.35 | 1012.32 | 69955.00 |

|           |      |      |      |       |         |           |
|-----------|------|------|------|-------|---------|-----------|
| 3+200.000 | 0.00 | 0.00 | 0.00 | 50.69 | 1044.19 | 70999.19  |
| 3+220.000 | 0.00 | 0.00 | 0.00 | 47.21 | 946.68  | 71945.87  |
| 3+240.000 | 0.00 | 0.00 | 0.00 | 44.23 | 887.26  | 72833.13  |
| 3+260.000 | 0.00 | 0.00 | 0.00 | 43.70 | 862.77  | 73695.90  |
| 3+280.000 | 0.00 | 0.00 | 0.00 | 42.22 | 767.87  | 74463.77  |
| 3+300.000 | 0.00 | 0.00 | 0.00 | 29.90 | 716.45  | 75180.22  |
| 3+320.000 | 0.00 | 0.00 | 0.00 | 46.36 | 741.88  | 75922.10  |
| 3+340.000 | 0.00 | 0.00 | 0.00 | 55.15 | 1015.08 | 76937.18  |
| 3+360.000 | 0.00 | 0.00 | 0.00 | 57.22 | 1111.26 | 78048.44  |
| 3+380.000 | 0.00 | 0.00 | 0.00 | 66.32 | 1318.64 | 79367.08  |
| 3+400.000 | 0.00 | 0.00 | 0.00 | 59.36 | 1301.78 | 80668.86  |
| 3+420.000 | 0.00 | 0.00 | 0.00 | 57.07 | 1277.87 | 81946.73  |
| 3+440.000 | 0.00 | 0.00 | 0.00 | 41.82 | 1002.14 | 82948.86  |
| 3+460.000 | 0.00 | 0.00 | 0.00 | 43.38 | 852.07  | 83800.93  |
| 3+480.000 | 0.00 | 0.00 | 0.00 | 49.72 | 931.08  | 84732.02  |
| 3+500.000 | 0.00 | 0.00 | 0.00 | 45.52 | 952.46  | 85684.48  |
| 3+520.000 | 0.00 | 0.00 | 0.00 | 46.88 | 924.06  | 86608.54  |
| 3+540.000 | 0.00 | 0.00 | 0.00 | 50.64 | 975.20  | 87583.75  |
| 3+560.000 | 0.00 | 0.00 | 0.00 | 53.56 | 1049.15 | 88632.90  |
| 3+580.000 | 0.00 | 0.00 | 0.00 | 8.35  | 622.96  | 89255.86  |
| 3+600.000 | 0.00 | 0.00 | 0.00 | 47.81 | 561.62  | 89817.48  |
| 3+620.000 | 0.00 | 0.00 | 0.00 | 46.18 | 929.22  | 90746.70  |
| 3+640.000 | 0.00 | 0.00 | 0.00 | 38.49 | 819.76  | 91566.46  |
| 3+660.000 | 0.00 | 0.00 | 0.00 | 40.79 | 789.14  | 92355.59  |
| 3+680.000 | 0.00 | 0.00 | 0.00 | 43.21 | 839.98  | 93195.58  |
| 3+700.000 | 0.00 | 0.00 | 0.00 | 49.92 | 948.02  | 94143.60  |
| 3+720.000 | 0.00 | 0.00 | 0.00 | 49.93 | 1001.94 | 95145.54  |
| 3+740.000 | 0.00 | 0.00 | 0.00 | 58.41 | 1124.76 | 96270.30  |
| 3+760.000 | 0.00 | 0.00 | 0.00 | 57.68 | 1178.01 | 97448.31  |
| 3+780.000 | 0.00 | 0.00 | 0.00 | 58.16 | 1170.22 | 98618.53  |
| 3+800.000 | 0.00 | 0.00 | 0.00 | 57.89 | 1198.69 | 99817.21  |
| 3+820.000 | 0.00 | 0.00 | 0.00 | 58.69 | 1165.87 | 100983.08 |
| 3+840.000 | 0.00 | 0.00 | 0.00 | 59.74 | 1195.46 | 102178.54 |
| 3+860.000 | 0.00 | 0.00 | 0.00 | 58.72 | 1184.67 | 103363.22 |
| 3+880.000 | 0.00 | 0.00 | 0.00 | 58.45 | 1171.73 | 104534.95 |
| 3+900.000 | 0.00 | 0.00 | 0.00 | 45.68 | 1052.57 | 105587.52 |
| 3+920.000 | 0.00 | 0.00 | 0.00 | 26.33 | 722.60  | 106310.12 |
| 3+940.000 | 0.00 | 0.00 | 0.00 | 36.30 | 634.38  | 106944.50 |
| 3+960.000 | 0.00 | 0.00 | 0.00 | 35.48 | 718.53  | 107663.03 |
| 3+980.000 | 0.00 | 0.00 | 0.00 | 36.51 | 718.74  | 108381.76 |
| 4+000.000 | 0.00 | 0.00 | 0.00 | 32.92 | 687.57  | 109069.33 |
| 4+020.000 | 0.00 | 0.00 | 0.00 | 30.43 | 643.65  | 109712.98 |

|           |      |      |      |       |         |           |
|-----------|------|------|------|-------|---------|-----------|
| 4+040.000 | 0.00 | 0.00 | 0.00 | 33.64 | 640.74  | 110353.72 |
| 4+060.000 | 0.00 | 0.00 | 0.00 | 35.57 | 692.11  | 111045.82 |
| 4+080.000 | 0.00 | 0.00 | 0.00 | 31.55 | 671.17  | 111716.99 |
| 4+100.000 | 0.00 | 0.00 | 0.00 | 30.01 | 615.57  | 112332.57 |
| 4+120.000 | 0.00 | 0.00 | 0.00 | 29.30 | 593.07  | 112925.64 |
| 4+140.000 | 0.00 | 0.00 | 0.00 | 29.27 | 585.71  | 113511.34 |
| 4+160.000 | 0.00 | 0.00 | 0.00 | 29.34 | 586.06  | 114097.41 |
| 4+180.000 | 0.00 | 0.00 | 0.00 | 29.14 | 584.81  | 114682.22 |
| 4+200.000 | 0.00 | 0.00 | 0.00 | 28.60 | 575.63  | 115257.85 |
| 4+220.000 | 0.00 | 0.00 | 0.00 | 27.64 | 562.43  | 115820.28 |
| 4+240.000 | 0.00 | 0.00 | 0.00 | 27.92 | 555.57  | 116375.85 |
| 4+260.000 | 0.00 | 0.00 | 0.00 | 23.55 | 509.39  | 116885.24 |
| 4+280.000 | 0.00 | 0.00 | 0.00 | 19.96 | 429.27  | 117314.51 |
| 4+300.000 | 0.00 | 0.00 | 0.00 | 14.62 | 343.30  | 117657.81 |
| 4+320.000 | 0.00 | 0.00 | 0.00 | 17.51 | 326.93  | 117984.74 |
| 4+340.000 | 0.00 | 0.00 | 0.00 | 19.15 | 366.63  | 118351.37 |
| 4+360.000 | 0.00 | 0.00 | 0.00 | 39.54 | 586.88  | 118938.25 |
| 4+380.000 | 0.00 | 0.00 | 0.00 | 34.23 | 737.74  | 119675.99 |
| 4+400.000 | 0.00 | 0.00 | 0.00 | 35.89 | 701.26  | 120377.25 |
| 4+420.000 | 0.00 | 0.00 | 0.00 | 31.37 | 672.60  | 121049.85 |
| 4+440.000 | 0.00 | 0.00 | 0.00 | 24.97 | 563.37  | 121613.22 |
| 4+460.000 | 0.00 | 0.00 | 0.00 | 22.97 | 479.41  | 122092.63 |
| 4+480.000 | 0.00 | 0.00 | 0.00 | 18.06 | 409.83  | 122502.46 |
| 4+500.000 | 0.00 | 0.00 | 0.00 | 14.15 | 321.47  | 122823.93 |
| 4+520.000 | 0.00 | 0.00 | 0.00 | 13.31 | 274.58  | 123098.51 |
| 4+540.000 | 0.00 | 0.00 | 0.00 | 11.22 | 245.05  | 123343.55 |
| 4+560.000 | 0.00 | 0.00 | 0.00 | 54.47 | 656.85  | 124000.40 |
| 4+580.000 | 0.00 | 0.00 | 0.00 | 53.05 | 1075.22 | 125075.62 |
| 4+595.982 | 0.00 | 0.00 | 0.00 | 0.00  | 602.05  | 125677.67 |