## Kaitaia WASTEWATER: Kaikohe WWTP Disposal to Land high level cost estimate (based on Beca estimate dated 30 Oct 2020)

| AVERAGE CAPITAL Rate - per connection | Y1 | Y2 | Y3 | Y4 | Y5 | Y6 | Y7 | Y8 | Y9 | Y10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Option Estimate | $ - | $ - | $ - | $ - | $ 70.89 | $ 69.74 | $ 68.58 | $ 67.42 | $ 66.27 | $ 65.11 |
| Option Estimate 35% | $ - | $ - | $ - | $ - | $ 46.08 | $ 45.33 | $ 44.58 | $ 43.83 | $ 43.08 | $ 42.32 |
| Option Estimate 50% | $ - | $ - | $ - | $ - | $ 106.34 | $ 104.60 | $ 102.87 | $ 101.14 | $ 99.40 | $ 97.67 |

| OPERATING Rate per connection | Rate based on opex spend on Options |
|---|---|
| Option Estimate | $ - |
| Option Estimate 35% | $ - |
| Option Estimate 50% | |

| Current connections | CAPITAL | OPERATING |
|---|---|---|
| Connections | 12,764 | 12764 |
| Availability | | |
| Pans | | 4141 |
| Weighted Numbers | **12764** | **15249** |

**Interest Rates**

| Y1 | Y2 | Y3 | Y4 | Y5 | Y6 | Y7 | Y8 | Y9 | Y10 |
|---|---|---|---|---|---|---|---|---|---|
| 0.022 | 0.018 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 |

| | | | Cost Estimates | | | | | | | Depreciation | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Asset Detail | Total Spend | Average Depreciable Life | Y1 | Y2 | Y3 | Y4 | Y5 | Y6 | Y7 | Y1 | Y2 | Y3 | Y4 | Y5 | Y6 | Y7 | Y8 | Y9 | Y10 |
| **Option Estimate** | | | | | | | | | | | | | | | | | | | | |
| Conveyance from WWTP to | 3,680,625 | 75 | | | | 3,680,625 | | | | 0 | 0 | 0 | 0 | 49,075 | 49,075 | 49,075 | 49,075 | 49,075 | 49,075 |
| Conveyance from WWTP to | 920,156 | 35 | | | | 920,156 | | | | 0 | 0 | 0 | 0 | 26,290 | 26,290 | 26,290 | 26,290 | 26,290 | 26,290 |
| Irrigation scheme and reservoir | 2,772,266 | 15 | | | | 2,772,266 | | | | 0 | 0 | 0 | 0 | 184,818 | 184,818 | 184,818 | 184,818 | 184,818 | 184,818 |
| Irrigation scheme and reservoir | 2,772,266 | 50 | | | | 2,772,266 | | | | 0 | 0 | 0 | 0 | 55,445 | 55,445 | 55,445 | 55,445 | 55,445 | 55,445 |
| General 50% Electrical and | 2,477,344 | 15 | | | | 2,477,344 | | | | 0 | 0 | 0 | 0 | 165,156 | 165,156 | 165,156 | 165,156 | 165,156 | 165,156 |
| General 50% Tank / Civil | 2,477,344 | 50 | | | | 2,477,344 | | | | 0 | 0 | 0 | 0 | 49,547 | 49,547 | 49,547 | 49,547 | 49,547 | 49,547 |
| Land Purchase - Non Depreciating | 2,000,000 | 0 | | | | 2,000,000 | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Opex | 0 | 0 | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | **17,100,000** | | **0** | **0** | **0** | **17,100,000** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **530,331** | **530,331** | **530,331** | **530,331** | **530,331** | **530,331** |
| **Option Estimate 35%** | | | | | | | | | | | | | | | | | | | | |
| Conveyance from WWTP to | 2,392,406 | 75 | | | | 2,392,406 | | | | 0 | 0 | 0 | 0 | 31,899 | 31,899 | 31,899 | 31,899 | 31,899 | 31,899 |
| Conveyance from WWTP to | 598,102 | 35 | | | | 598,102 | | | | 0 | 0 | 0 | 0 | 17,089 | 17,089 | 17,089 | 17,089 | 17,089 | 17,089 |
| Irrigation scheme and reservoir | 1,801,973 | 15 | | | | 1,801,973 | | | | 0 | 0 | 0 | 0 | 120,132 | 120,132 | 120,132 | 120,132 | 120,132 | 120,132 |
| Irrigation scheme and reservoir | 1,801,973 | 50 | | | | 1,801,973 | | | | 0 | 0 | 0 | 0 | 36,039 | 36,039 | 36,039 | 36,039 | 36,039 | 36,039 |
| General 50% Electrical and | 1,610,273 | 15 | | | | 1,610,273 | | | | 0 | 0 | 0 | 0 | 107,352 | 107,352 | 107,352 | 107,352 | 107,352 | 107,352 |
| General 50% Tank / Civil | 1,610,273 | 50 | | | | 1,610,273 | | | | 0 | 0 | 0 | 0 | 32,205 | 32,205 | 32,205 | 32,205 | 32,205 | 32,205 |
| Land Purchase - Non Depreciating | 1,300,000 | 0 | | | | 1,300,000 | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Opex | 0 | 0 | 0 | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | **11,115,000** | | **0** | **0** | **0** | **11,115,000** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **344,715** | **344,715** | **344,715** | **344,715** | **344,715** | **344,715** |
| **Option Estimate 50%** | | | | | | | | | | | | | | | | | | | | |
| Conveyance from WWTP to | 5,520,938 | 75 | | | | 5,520,938 | | | | 0 | 0 | 0 | 0 | 73,613 | 73,613 | 73,613 | 73,613 | 73,613 | 73,613 |
| Conveyance from WWTP to | 1,380,234 | 35 | | | | 1,380,234 | | | | 0 | 0 | 0 | 0 | 39,435 | 39,435 | 39,435 | 39,435 | 39,435 | 39,435 |
| Irrigation scheme and reservoir | 4,158,398 | 15 | | | | 4,158,398 | | | | 0 | 0 | 0 | 0 | 277,227 | 277,227 | 277,227 | 277,227 | 277,227 | 277,227 |
| Irrigation scheme and reservoir | 4,158,398 | 50 | | | | 4,158,398 | | | | 0 | 0 | 0 | 0 | 83,168 | 83,168 | 83,168 | 83,168 | 83,168 | 83,168 |
| General 50% Electrical and | 3,716,016 | 15 | | | | 3,716,016 | | | | 0 | 0 | 0 | 0 | 247,734 | 247,734 | 247,734 | 247,734 | 247,734 | 247,734 |
| General 50% Tank / Civil | 3,716,016 | 50 | | | | 3,716,016 | | | | 0 | 0 | 0 | 0 | 74,320 | 74,320 | 74,320 | 74,320 | 74,320 | 74,320 |
| Land Purchase - Non Depreciating | 3,000,000 | 0 | | | | 3,000,000 | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Opex | 0 | 0 | 0 | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | **25,650,000** | | **0** | **0** | **0** | **25,650,000** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **795,497** | **795,497** | **795,497** | **795,497** | **795,497** | **795,497** |

| | | | Debt Repayment | | | | | | | | | | Interest | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Asset Detail | Total Spend | Average Depreciable Life | Y1 | Y2 | Y3 | Y4 | Y5 | Y6 | Y7 | Y8 | Y9 | Y10 | Y1 | Y2 | Y3 | Y4 | Y5 | Y6 | Y7 | Y8 | Y9 | Y10 |
| **Option Estimate** | | | | | | | | | | | | | | | | | | | | | | |
| Conveyance from WWTP to | 3,680,625 | 75 | 0 | 0 | 0 | 0 | 184,031 | 184,031 | 184,031 | 184,031 | 184,031 | 184,031 | 0 | 0 | 0 | 0 | 55,209 | 52,449 | 49,688 | 46,928 | 44,168 | 41,407 |
| Conveyance from WWTP to | 920,156 | 35 | 0 | 0 | 0 | 0 | 46,008 | 46,008 | 46,008 | 46,008 | 46,008 | 46,008 | 0 | 0 | 0 | 0 | 13,802 | 13,112 | 12,422 | 11,732 | 11,042 | 10,352 |
| Irrigation scheme and reservoir | 2,772,266 | 15 | 0 | 0 | 0 | 0 | 138,613 | 138,613 | 138,613 | 138,613 | 138,613 | 138,613 | 0 | 0 | 0 | 0 | 41,584 | 39,505 | 37,426 | 35,346 | 33,267 | 31,188 |
| Irrigation scheme and reservoir | 2,772,266 | 50 | 0 | 0 | 0 | 0 | 138,613 | 138,613 | 138,613 | 138,613 | 138,613 | 138,613 | 0 | 0 | 0 | 0 | 41,584 | 39,505 | 37,426 | 35,346 | 33,267 | 31,188 |
| General 50% Electrical and | 2,477,344 | 15 | 0 | 0 | 0 | 0 | 123,867 | 123,867 | 123,867 | 123,867 | 123,867 | 123,867 | 0 | 0 | 0 | 0 | 37,160 | 35,302 | 33,444 | 31,586 | 29,728 | 27,870 |
| General 50% Tank / Civil | 2,477,344 | 50 | 0 | 0 | 0 | 0 | 123,867 | 123,867 | 123,867 | 123,867 | 123,867 | 123,867 | 0 | 0 | 0 | 0 | 37,160 | 35,302 | 33,444 | 31,586 | 29,728 | 27,870 |
| Land Purchase - Non Depreciating | 2,000,000 | 0 | 0 | 0 | 0 | 0 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 100,000 | 0 | 0 | 0 | 0 | 30,000 | 28,500 | 27,000 | 25,500 | 24,000 | 22,500 |
| Opex | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | **17,100,000** | | **0** | **0** | **0** | **0** | **855,000** | **855,000** | **855,000** | **855,000** | **855,000** | **855,000** | **0** | **0** | **0** | **0** | **256,500** | **243,675** | **230,850** | **218,025** | **205,200** | **192,375** |
| **Option Estimate 35%** | | | | | | | | | | | | | | | | | | | | | | |
| Conveyance from WWTP to | 2,392,406 | 75 | 0 | 0 | 0 | 0 | 119,620 | 119,620 | 119,620 | 119,620 | 119,620 | 119,620 | 0 | 0 | 0 | 0 | 35,886 | 34,092 | 32,297 | 30,503 | 28,709 | 26,915 |
| Conveyance from WWTP to | 598,102 | 35 | 0 | 0 | 0 | 0 | 29,905 | 29,905 | 29,905 | 29,905 | 29,905 | 29,905 | 0 | 0 | 0 | 0 | 8,972 | 8,523 | 8,074 | 7,626 | 7,177 | 6,729 |
| Irrigation scheme and reservoir | 1,801,973 | 15 | 0 | 0 | 0 | 0 | 90,099 | 90,099 | 90,099 | 90,099 | 90,099 | 90,099 | 0 | 0 | 0 | 0 | 27,030 | 25,678 | 24,327 | 22,975 | 21,624 | 20,272 |
| Irrigation scheme and reservoir | 1,801,973 | 50 | 0 | 0 | 0 | 0 | 90,099 | 90,099 | 90,099 | 90,099 | 90,099 | 90,099 | 0 | 0 | 0 | 0 | 27,030 | 25,678 | 24,327 | 22,975 | 21,624 | 20,272 |
| General 50% Electrical and | 1,610,273 | 15 | 0 | 0 | 0 | 0 | 80,514 | 80,514 | 80,514 | 80,514 | 80,514 | 80,514 | 0 | 0 | 0 | 0 | 24,154 | 22,946 | 21,739 | 20,531 | 19,323 | 18,116 |
| General 50% Tank / Civil | 1,610,273 | 50 | 0 | 0 | 0 | 0 | 80,514 | 80,514 | 80,514 | 80,514 | 80,514 | 80,514 | 0 | 0 | 0 | 0 | 24,154 | 22,946 | 21,739 | 20,531 | 19,323 | 18,116 |
| Land Purchase - Non Depreciating | 1,300,000 | 0 | 0 | 0 | 0 | 0 | 65,000 | 65,000 | 65,000 | 65,000 | 65,000 | 65,000 | 0 | 0 | 0 | 0 | 19,500 | 18,525 | 17,550 | 16,575 | 15,600 | 14,625 |
| Opex | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | **11,115,000** | | **0** | **0** | **0** | **0** | **555,750** | **555,750** | **555,750** | **555,750** | **555,750** | **555,750** | **0** | **0** | **0** | **0** | **166,725** | **158,389** | **150,053** | **141,716** | **133,380** | **125,044** |
| **Option Estimate 50%** | | | | | | | | | | | | | | | | | | | | | | |
| Conveyance from WWTP to | 5,520,938 | 75 | 0 | 0 | 0 | 0 | 276,047 | 276,047 | 276,047 | 276,047 | 276,047 | 276,047 | 0 | 0 | 0 | 0 | 82,814 | 78,673 | 74,533 | 70,392 | 66,251 | 62,111 |
| Conveyance from WWTP to | 1,380,234 | 35 | 0 | 0 | 0 | 0 | 69,012 | 69,012 | 69,012 | 69,012 | 69,012 | 69,012 | 0 | 0 | 0 | 0 | 20,704 | 19,668 | 18,633 | 17,598 | 16,563 | 15,528 |
| Irrigation scheme and reservoir | 4,158,398 | 15 | 0 | 0 | 0 | 0 | 207,920 | 207,920 | 207,920 | 207,920 | 207,920 | 207,920 | 0 | 0 | 0 | 0 | 62,376 | 59,257 | 56,138 | 53,020 | 49,901 | 46,782 |
| Irrigation scheme and reservoir | 4,158,398 | 50 | 0 | 0 | 0 | 0 | 207,920 | 207,920 | 207,920 | 207,920 | 207,920 | 207,920 | 0 | 0 | 0 | 0 | 62,376 | 59,257 | 56,138 | 53,020 | 49,901 | 46,782 |
| General 50% Electrical and | 3,716,016 | 15 | 0 | 0 | 0 | 0 | 185,801 | 185,801 | 185,801 | 185,801 | 185,801 | 185,801 | 0 | 0 | 0 | 0 | 55,740 | 52,953 | 50,166 | 47,379 | 44,592 | 41,805 |
| General 50% Tank / Civil | 3,716,016 | 50 | 0 | 0 | 0 | 0 | 185,801 | 185,801 | 185,801 | 185,801 | 185,801 | 185,801 | 0 | 0 | 0 | 0 | 55,740 | 52,953 | 50,166 | 47,379 | 44,592 | 41,805 |
| Land Purchase - Non Depreciating | 3,000,000 | 0 | 0 | 0 | 0 | 0 | 150,000 | 150,000 | 150,000 | 150,000 | 150,000 | 150,000 | 0 | 0 | 0 | 0 | 45,000 | 42,750 | 40,500 | 38,250 | 36,000 | 33,750 |
| Opex | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | **25,650,000** | | **0** | **0** | **0** | **0** | **1,282,500** | **1,282,500** | **1,282,500** | **1,282,500** | **1,282,500** | **1,282,500** | **0** | **0** | **0** | **0** | **384,750** | **365,513** | **346,275** | **327,038** | **307,800** | **288,563** |