

**Resolution Copper Tailings Calculations**

**Assumptions:**

25 years production (RCC website)  
 600,000 tons/yr copper produced (RCC website)  
 110,000 tons/day ore production (D Loring)

**Production:**

110,000 tons/day times (x) 365 days/yr equals (=) 40,150,000 tons/yr ore  
 600,000 tons/yr Cu divided by (/) 40,150,000 tons/yr ore equals (=) 1.5% copper in ore

**Total Ore Produced:**

110,000 tons/day times (x) 365 days/yr times (x) 25 years equals (=) 1,003,750,000 tons ore

**Total Bulk Tailings:**

Assume 33.3% of the concentrate is copper

110,000 tons/day times (x) 365 days/yr times (x) 25 years times (x) 95.5% % waste equals (=) 958,581,250 tons bulk tailings

**Total Concentrate:**

Assume 33.3% of the concentrate is copper

110,000 tons/day times (x) 365 days/yr times (x) 25 years times (x) 4.5% % waste equals (=) 45,168,750 tons concentrate

**Concentrate Tailings:**

If the concentrate is refined onsite (SX-EX or smelting), then there will be concentrate tailings.  
 Assume 33% of the concentrate is copper

45,168,750 tons concentrate times (x) 33.3% Cu equals (=) 15,056,250 tons of copper equals (=) 30,112,500,000 pounds of copper  
 45,168,750 tons concentrate times (x) 66.7% waste equals (=) 30,112,500 tons of concentrate tailings

**Tailings Volume:**

**Assume:** tailings density of 95 pounds/cubic foot  
 1 acre = 43,560 sq. ft

**Bulk Tailings:**

958,581,250 tons bulk tailings times (x) 95 lbs/ft<sup>3</sup> equals (=) 20,180,657,895 cubic feet of tailings  
 Assumed depth of tailings = 200 feet equals (=) 2,316 acres required for bulk tailings disposal

**Concentrate Tailings:**

30,112,500 tons concentrate tailings times (x) 95 lbs/ft<sup>3</sup> equals (=) 633,947,368 cubic feet of tailings  
 Assumed depth of tailings = 200 feet equals (=) 73 acres required for concentrate tailings disposal

2,389 acres required for bulk tailings & concentrate tailings disposal