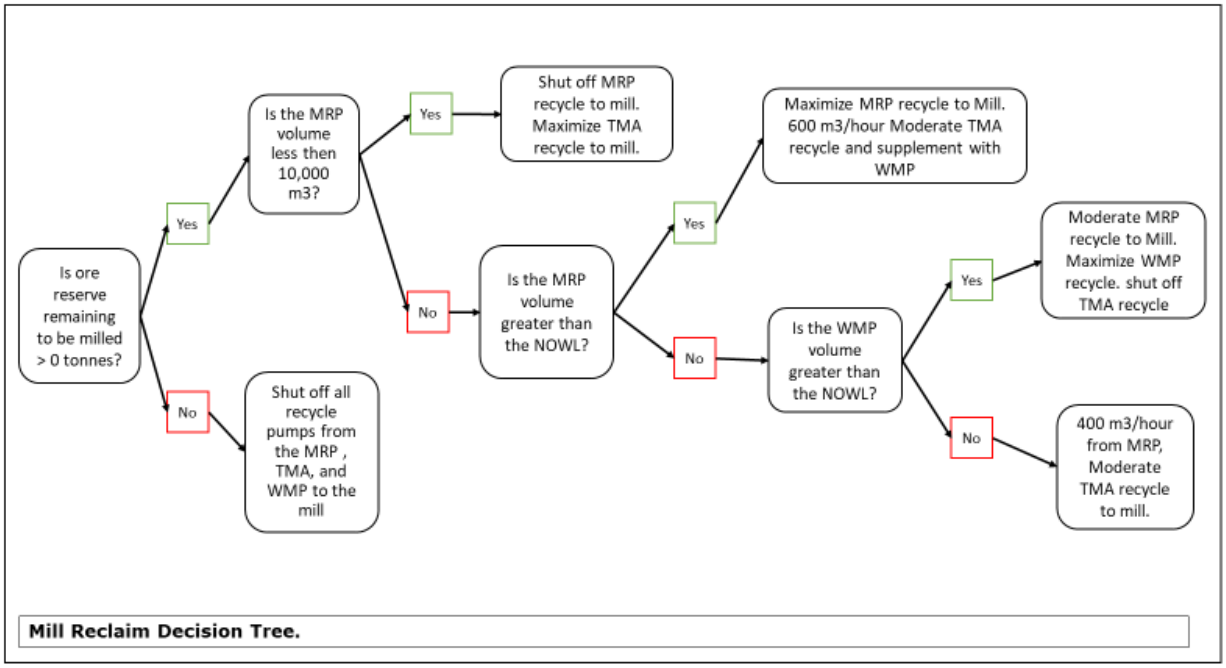
Water Balance and Reclaim Operations

The Rainy River Mine (RRM) developed a water balance to be update periodically during the mine life using the goldsim program. There are 3 major ponds used for reclaiming water the Mine Rock Pond (MRP), the Water Management Pond (WMP), and the Tailings Management Area (TMA). This model defines the logic for reclaim operations shown in Figure X. Below are a few scenarios which describe a certain set of conditions and the appropriate response to these using the reclaim logic.

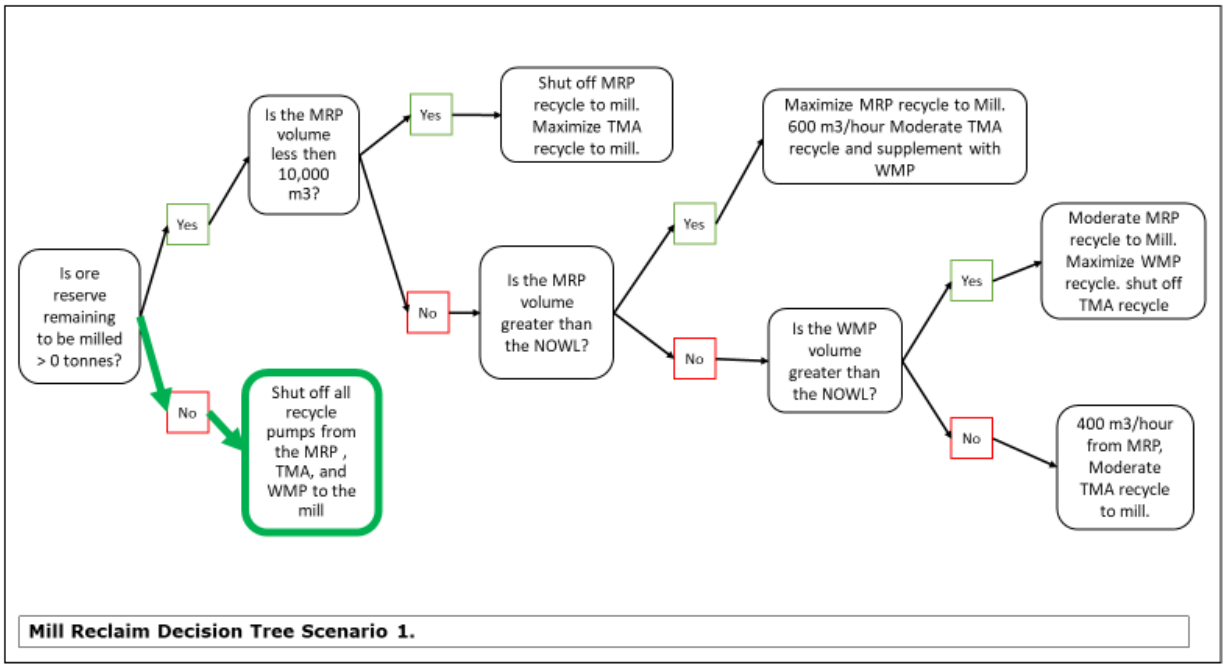
Figure X: Mill Reclaim Decision Tree



Scenario 1: No ore tonnage remained to be mill.

Response: Shut off all reclaim pumps. See in Figure X below.

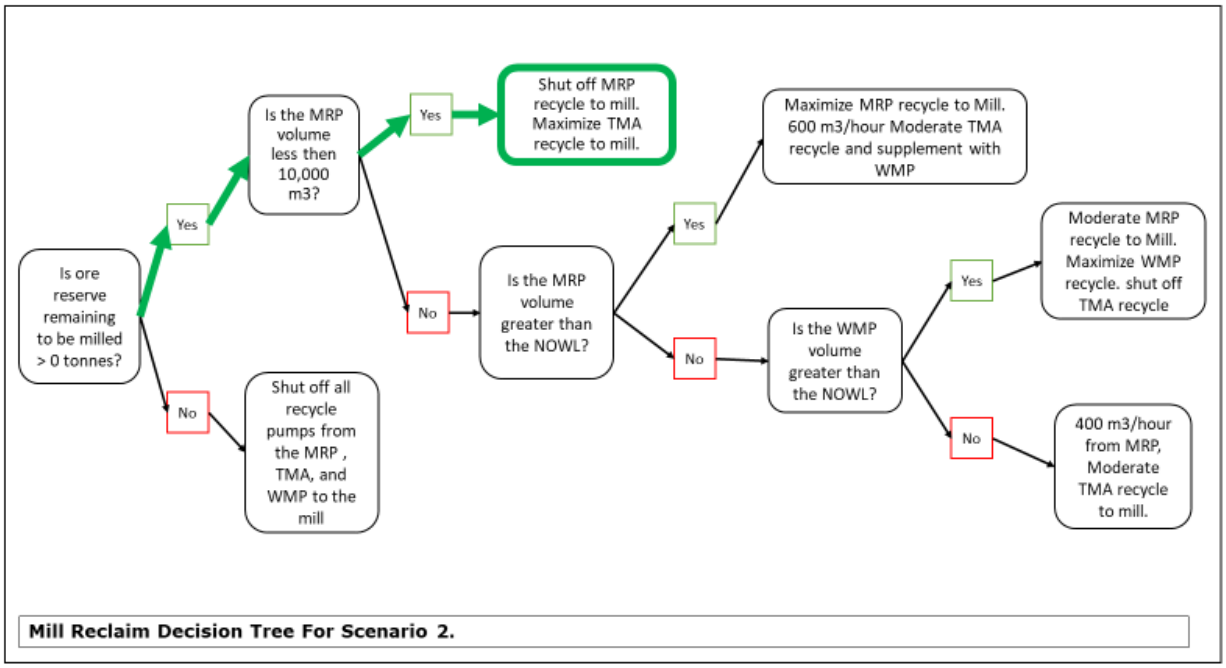
Figure X: Mill Reclaim Decision Tree Scenario 1



Scenario 2: MRP volume is 5000 m3, WMP and TMA are at normal elevations

Response: Shut off MRP reclaim and maximize the TMA reclaim. See in Figure X below.

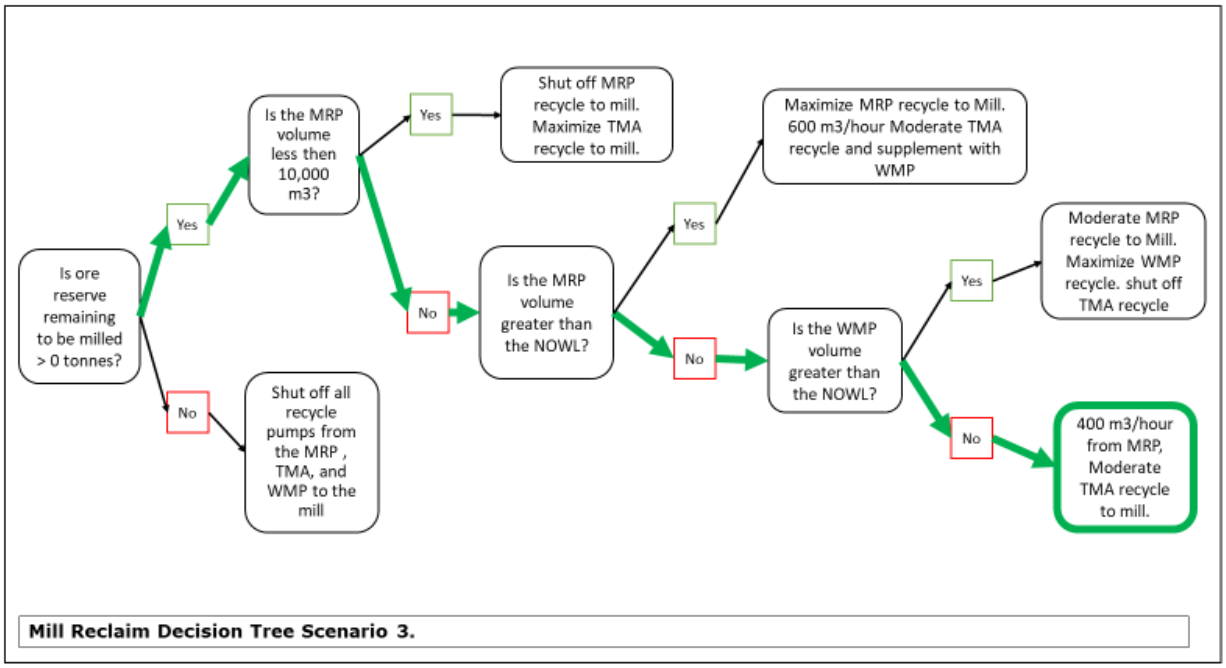
Figure X: Mill Reclaim Decision Tree Scenario 2



Scenario 3: All ponds elevations are below Normal operation water levels.

Response: Set MRP reclaim at 400 m3/hr, reclaim the rest from the TMA. See in Figure X below.

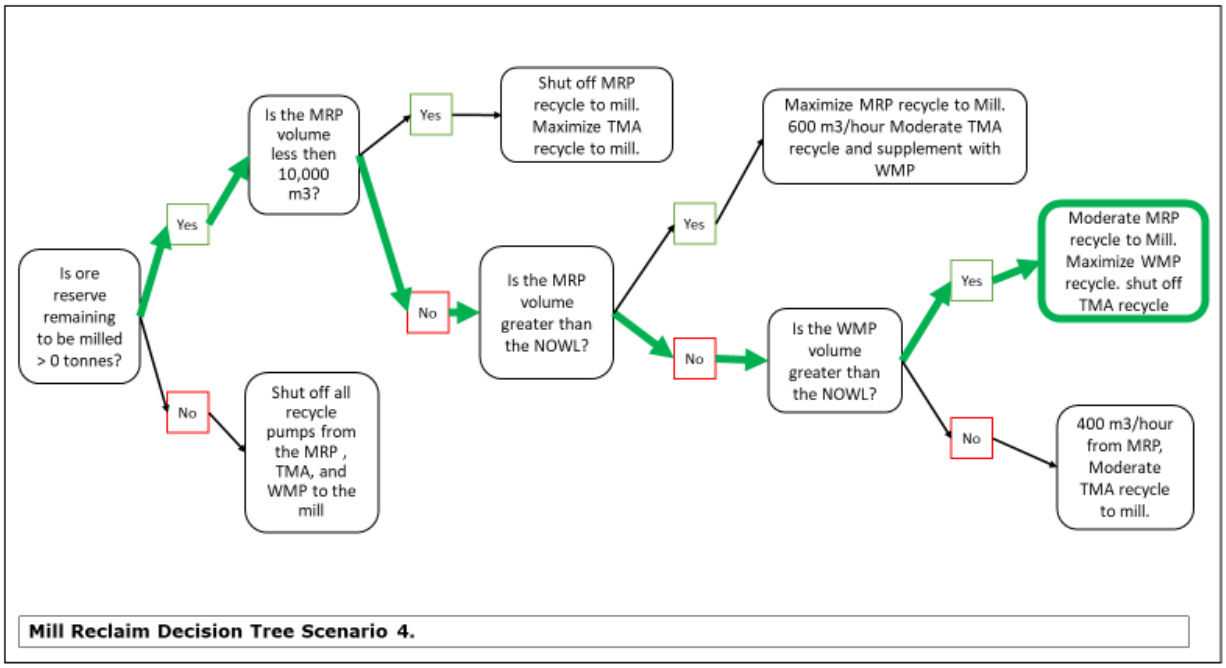
Figure X: Mill Reclaim Decision Tree Scenario 3



Scenario 4: WMP water elevation is above the normal operating water level, all other ponds are below the normal operating water level.

Response: Maximize WMP reclaim and moderate with MRP reclaim. Shut off TMA reclaim.

Figure X: Mill Reclaim Decision Tree Scenario 4



Mill Reclaim Decision Tree Scenario 4.