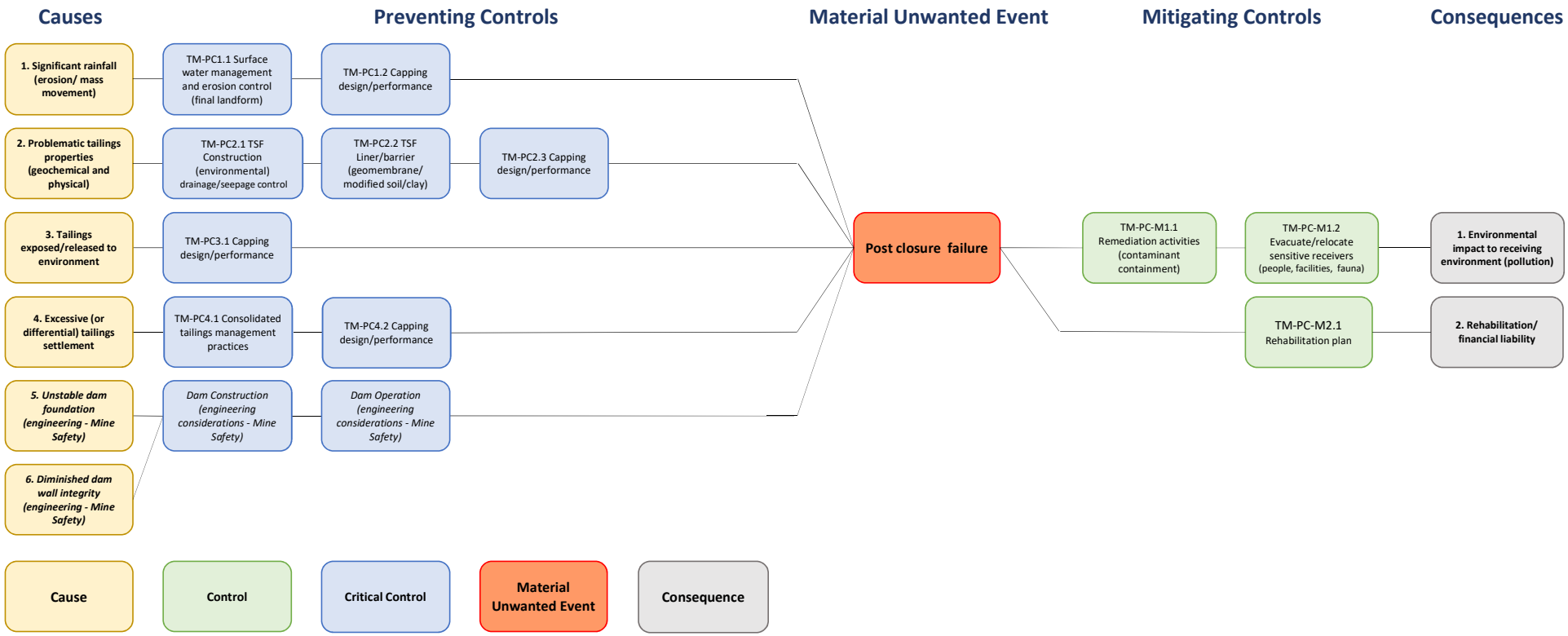
Causes
Preventing Controls
Material Unwanted Event
Mitigating Controls
Consequences
1. Significant rainfall (erosion/ mass movement)
TM-PC1.1 Surface water management and erosion control (final landform)
TM-PC1.2 Capping design/performance
2. Problematic tailings properties (geochemical and physical)
TM-PC2.1 TSF Construction (environmental) drainage/seepage control
TM-PC2.2 TSF Liner/barrier (geomembrane/ modified soil/clay)
TM-PC2.3 Capping design/performance
3. Tailings exposed/released to environment
TM-PC3.1 Capping design/performance
4. Excessive (or differential) tailings settlement
TM-PC4.1 Consolidated tailings management practices
TM-PC4.2 Capping design/performance
5. Unstable dam foundation (engineering - Mine Safety)
Dam Construction (engineering considerations - Mine Safety)
Dam Operation (engineering considerations - Mine Safety)
6. Diminished dam wall integrity (engineering - Mine Safety)
Post closure failure
TM-PC-M1.1 Remediation activities (contaminant containment)
TM-PC-M1.2 Evacuate/relocate sensitive receivers (people, facilities, fauna)
1. Environmental impact to receiving environment (pollution)
TM-PC-M2.1 Rehabilitation plan
2. Rehabilitation/ financial liability
Cause
Control
Critical Control
Material Unwanted Event
Consequence