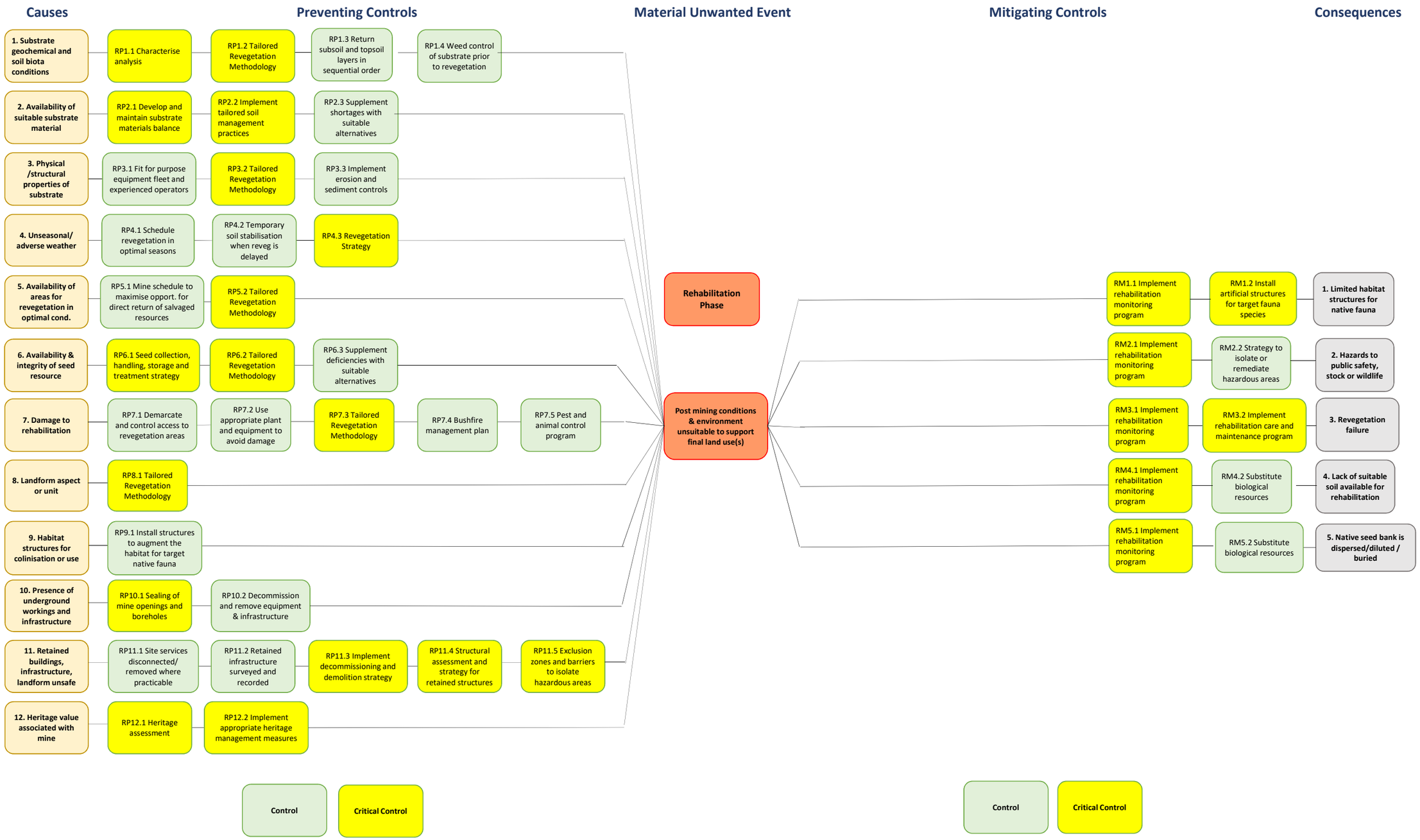
Causes
Preventing Controls
Material Unwanted Event
Mitigating Controls
Consequences
1. Substrate geochemical and soil biota conditions
RP1.1 Characterise analysis
RP1.2 Tailored Revegetation Methodology
RP1.3 Return subsoil and topsoil layers in sequential order
RP1.4 Weed control of substrate prior to revegetation
2. Availability of suitable substrate material
RP2.1 Develop and maintain substrate materials balance
RP2.2 Implement tailored soil management practices
RP2.3 Supplement shortages with suitable alternatives
3. Physical /structural properties of substrate
RP3.1 Fit for purpose equipment fleet and experienced operators
RP3.2 Tailored Revegetation Methodology
RP3.3 Implement erosion and sediment controls
4. Unseasonal/ adverse weather
RP4.1 Schedule revegetation in optimal seasons
RP4.2 Temporary soil stabilisation when reveg is delayed
RP4.3 Revegetation Strategy
5. Availability of areas for revegetation in optimal cond.
RP5.1 Mine schedule to maximise opport. for direct return of salvaged resources
RP5.2 Tailored Revegetation Methodology
6. Availability & integrity of seed resource
RP6.1 Seed collection, handling, storage and treatment strategy
RP6.2 Tailored Revegetation Methodology
RP6.3 Supplement deficiencies with suitable alternatives
7. Damage to rehabilitation
RP7.1 Demarcate and control access to revegetation areas
RP7.2 Use appropriate plant and equipment to avoid damage
RP7.3 Tailored Revegetation Methodology
RP7.4 Bushfire management plan
RP7.5 Pest and animal control program
8. Landform aspect or unit
RP8.1 Tailored Revegetation Methodology
9. Habitat structures for colinisation or use
RP9.1 Install structures to augment the habitat for target native fauna
10. Presence of underground workings and infrastructure
RP10.1 Sealing of mine openings and boreholes
RP10.2 Decommission and remove equipment & infrastructure
11. Retained buildings, infrastructure, landform unsafe
RP11.1 Site services disconnected/ removed where practicable
RP11.2 Retained infrastructure surveyed and recorded
RP11.3 Implement decommissioning and demolition strategy
RP11.4 Structural assessment and strategy for retained structures
RP11.5 Exclusion zones and barriers to isolate hazardous areas
12. Heritage value associated with mine
RP12.1 Heritage assessment
RP12.2 Implement appropriate heritage management measures
Rehabilitation Phase
Post mining conditions & environment unsuitable to support final land use(s)
RM1.1 Implement rehabilitation monitoring program
RM1.2 Install artificial structures for target fauna species
1. Limited habitat structures for native fauna
RM2.1 Implement rehabilitation monitoring program
RM2.2 Strategy to isolate or remediate hazardous areas
2. Hazards to public safety, stock or wildlife
RM3.1 Implement rehabilitation monitoring program
RM3.2 Implement rehabilitation care and maintenance program
3. Revegetation failure
RM4.1 Implement rehabilitation monitoring program
RM4.2 Substitute biological resources
4. Lack of suitable soil available for rehabilitation
RM5.1 Implement rehabilitation monitoring program
RM5.2 Substitute biological resources
5. Native seed bank is dispersed/diluted / buried
Control
Critical Control
Control
Critical Control