|  |  |
| --- | --- |
| **Dam Summary Information Sheet** | A blue and orange logo  Description automatically generated |
| **General Dam Information** |
| **Name of Dam** | *Hera Tailings Dam* | ***Dam ID Number*** | *1138* |
| **Description/Purpose** | *Embankment Dam to impound mineral residue**The design is for central deposition of thickened tailings via a mound to form a runoff shedding landform. The mound is contained by a perimeter embankment. The embankment has a spillway of which directs overflow water via open lined channel to a lined containment pond for decant water.**An emergency spillway is located within the embankment wall of the WMD (decant dam) from which discharge to the receiving environment would be monitored in extreme rain events.**The TSF is currently in Care and Maintenance and not receiving operational tailings. It is being used as a water evaporation area to minimise dust from the dry surface.**Contained tailings in classified as Potentially Acid Forming (PAF).* |
| **Above the Safety Threshold** | *No*  |
| **Owner** | *Hera Mine Pty Ltd* |
| **Main Emergency Contact**  | *Todd Whitla - Processing Manager 0437934535* |
| **After Hours Contact**  | *Angus Wyllie – General Manager 0447654576* |
| **Location of Dam** | *8km south of Nymagee NSW, off Burthong Road* |
| **River/Stream/Catchment** | *Nil* |
| **Towns Impacted** | *Nil* |
| **LGA’s Impacted** | *Nymagee* |
| **Alert Levels – Key Response Levels** |
| **White Alert**The lowest level of dam safety emergency and is assigned for unusual incidents which have the potential to threaten the dam. | *Normal operation. water being held in tailings dam below spillway level.**As per the OMM TARP, monitoring of water levels and forecast rainfall is required.* |
| **Amber Alert** The second highest level of dam safety emergency assigned when dam integrity is compromised. | *An emergency trigger for a likely failure event is reached.**Refer to dam safety Emergency Plan for further guidance of action plan.* |
| **Red Alert**The highest level of dam safety emergency assigned when the dam is failing, or failure is imminent. | *Failure is occurring or has occurred.*Refer emergency notification and action response in the DSEP. |
| **Downstream Communities and Consequences** |
| **Downstream Communities** | *nil* |
| **‘Sunny Day’ Failure (SDF)***[Floods caused by the unexpected failure of the dam that may happen at any time and may not involve a rainfall event - including Earthquakes]* | *Post flood assessment with pond on tailings surface from a 1 in 10,000 AEP, 24 hour duration rain event.* |
| **Consequence Summary** | Consequence Category | Population at Risk (PAR) | Potential Loss of Life (PLL) | Number of Dwellings | Flood Wave Depth and Travel Time |
| *Significant* | *<1* | *<1* | *0* | *< 0.3m wave, >1 hr time*  |
| **‘Probable Maximum Flood’ Failure (PMF)** *[The extreme flood for the catchment, typically presented as with and without dam failure]* | *Consecutive days of 1 in 10,000 AEP, 24 hour duration rain event.* |
| **Consequence Summary** | Consequence Category | Population at Risk (PAR) | Potential Loss of Life (PLL) | Number of Dwellings | Flood Wave Depth and Travel Time |
| *Significant* | *<1* | *<1* | *0* | *> 0.3m wave, >1 hr time*  |
| **Dam Characteristics and Hydrological Information** |
| Type/Description | Central discharge heaped tailings with embankment perimeter wall | **Outlet/Spillway** | Spillway from tailings dam into decant dam, spillway from decant dam to receiving environment |
| Maximum Embankment Height  | 8m | Inlet Works | N/A |
| Maximum Tailings Thickness | 19m |  |  |
| Crest Level | 5m | Outlet Works | N’/A |
| Crest Width | 6m | Spillway Type | rock |
| Crest Length | 1150m | Spillway Gated | *No* |
| Catchment Area | 41 ha | Spillway Level | 1.4m below crest |
| Full Supply Level (FSL) | 2.3m | Spillway Width | 8m |
| Storage Capacity at FSL | N/A | Spillway Length | 20m |
| Imminent Failure Level | *>3m* | Spillway Design Capacity | 1:10000 |
| Freeboard allowance/Maximum |  | Streambed Level | N/A |
| **Warning and Monitoring Systems** |
| **Warning Systems** | *Visual and manual only conducted daily and more frequently if potential rainfall event* |
| **Monitoring Systems** | *Visual and manual only conducted daily and more frequently if potential rainfall event* |
| **Notification Protocols** | Refer to DSEP |
| **Bureau of Meteorology Warnings and Stream Gauges** | **Bureau Warning Gauges***Cobar Weather Station (MO 048027)* | **Stream Gauges***N/A* |
| **NSW SES Local Flood Emergency Sub Plan Name** | Cobar Shire – Local Flood Emergency Sub Plan |
| **Additional Information** |
| *[Description of any other information that has not been covered, or may be relevant]* |
| **References** |
| *[List of references and version number]* |
| **Prepared By** | *Todd Whitla* | **Approved By** | *Todd Whitla* |
| **Position** | *Aurelia Metals – Process Manager* | **Position** | *Aurelia Metals – Process Manager* |
| **Version Control** | *Ver 1. 25/05/2025* |