|  |
| --- |
| End of form |

Pits and extractives

**NOTE**: This form relates to an application for a tailored condition environmental mining licence.

| Table 2.1 Pits and Extractives  |
| --- |
| **Item** | **Pertinent information** |
| No. of pit operations | Pit 1 (identify new or existing) | Pit 2 (identify new or existing) | Pit 3 (identify new or existing) |
| Open pit or extractive |  |  |  |
| Titles |  |  |  |
| Target material/commodity |  |  |  |
| LOM year of construction |  |  |  |
| Pit | Total depth (m) |  |  |  |
| Current Depth (m) (if existing pit) |  |  |  |
| Dimensions  | Length(m): | Width(m): | Volume (m³): | Length(m): | Width(m): | Volume (m³) | Length(m): | Width(m): | Volume(m³) |
| Waste types to be encountered |  |  |  |
| Pit wall Competency | Geological Zone | Depth range (m) | RQD\* (%) | Strength | Weathering state\* | Depth range (m) | RQD\* (%) | Strength | Weathering state\* | Depth range (m) | RQD\* (%) | Strength | Weathering state\* |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| References |  |  |  |
| Benches/Berms | Bench height (m): |  |  |  |
| Bench width (m) |  |  |  |
| Bench angle (H:V) |  |  |  |
| Factor of Safety (FoS)\*(assumes modelling undertaken) |  |  |  |
| References |  |  |  |
| Dewatering/pit stabilisation | Standing Water Level (SWL) |  |  |  |
| Aquifers to dewater |  |  |  |
| No of bores |  |  |  |
| Extraction rate (ML/yr) |  |  |  |
| Cone of depression distance (m) from pit at 0.5m contour |  |  |  |
| Water management requirements |  |  |  |
| References |  |  |  |
| Diversions | Waterway name |  |  |  |
| Length (m) |  |  |  |
| Width (m) |  |  |  |
| References |  |  |  |
| Flood immunity (ARI) | Flood potential | Annual Recurrence Interval (ARI) | Annual Recurrence Interval (ARI) | Annual Recurrence Interval (ARI) |
| 1:10 | 1:100 | 1:500 | PMF | 1:10 | 1:100 | 1:500 | PMF | 1:10 | 1:100 | 1:500 | PMF |
| Peak flood depth (m) |  |  |  |  |  |  |  |  |  |  |  |  |
| Flood mitigation required (Yes/No) |  |  |  |  |  |  |  |  |  |  |  |  |
| References |  |  |  |
| Pit development method | Rationale |  |  |  |
| Regulatory considerations | Authorisation (former MMA) | Authorisation XXXX-01:* Condition XX – dewatering
* Condition XX – clearing for pit
 |  |  |
| NT EPA | Environmental Approval XXXXX* Condition XX – dewatering
 |  |  |
| EPBC Act |  |  |  |
| Other  |  |  |  |
| Ancillary structures |  |  |  |  |

| Table 2.2 Pits and Extractives - Risk, Controls and Management |
| --- |
| **Project Stage** | **General description of major works** | **Key risks****(Tick that apply)** | **Controls** | **Management performance and monitoring** | **References** |
| **Flora & Fauna** | **Sacred Sites** | **Heritage** | **Water** | **Air/Dust** | **Other** |
| 1 | Clearing/site investigation* Site investigation – drilling
* Clearing site for stage 2 works below
 |  |  |  |  |  |  |  |  |  |
| 2 | Construction/Earthworks* Earthworks to prepare foundations for small office
* Connect office to services (water/power)
 |  |  |  |  |  |  |  |  |  |
| 3 | Commissioning/Operations* Drill on 10x10m grid spaces to 5m; collect samples for grade control and waste classification
* Load explosives for blasting
* Geologists will mark blast material for ore and waste, based on testing
* Waste placement on WRD 1, as per WRD Mgt plan
 |  |  |  |  |  |  |  |  |  |
| 4 | Unplanned closure* Decommission all plant/infrastructure (cut services)
* Remove all plant/infrastructure
* Contaminated site investigation and rehabilitate any contaminated areas
* Establish bund around perimeter for pit lake
 |  |  |  |  |  |  |  |  |  |
| 5 | Planned Closure* Same as unplanned closure
 |  |  |  |  |  |  |  |  |  |