**Attachment 4 – Template for associated water closure report (requirement of section 31B(3) of the Mineral Resources Regulation 2013 (the Regulation))**

This report template distinguishes the **mandatory requirements** (under the Regulation) from information that is considered **good industry practice**. The mandatory information requested on this pro forma must be lodged as a minimum. Good industry practice details are considered voluntary to report, but are encouraged where available and not commercially sensitive.

**Report prepared by**

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1. **Resource Authority Information**

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| Attribute name | Tenure identifier1 | Mine name2 | Mined product3 | Geological basin being extracted from4 | Code/dewatered geological formation/Stratigraphic unit5, if any | Above or below uppermost water table6, if any | Type of seepage7, if any | Section name8, if any | Comments9, if any |
| Example | MDL 123, ML 123456 | New Sun Mine | Coal | Bowen | WANDA Wandoan Formation | Below water table | C | Middle |  |
|  |  |  |  |  |  |  |  |  |  |
| Nature of mining operations: Example: open cut, underground, etc. |
| 10Description of aquifer interference activity, if anyExample: Mine dewatering of underground water to the extent necessary to achieve safe operating conditions in the mine. |
| Explanation |
| 1The identifier in the format ML XXXXXX for mining leases or MDL XXX for mineral development leases. Multiple entries can be made, however leases/licences included in one report must be contiguous and form part of one operation. Only include tenures that are contributing to the associated water volume being reported. All other tenures that are not contributing to the associated water volume total should be on a separate entry.  |
| 2The name of the mine operation (e.g. New Acland Mine, Carmichael Mine). The mine operation may contain multiple leases/licences but these must be contiguous and form part of one operation. |
| 3The material that is mined ie coal, silver, silica etc. |
| 4The geological basin that the mine is extracting product from ie Bowen Basin, Galilee Basin. |
| 5Refer to Formation Codes Table available on BusinessQLD web site |
| 6Is the mine pit floor or lowest underground working below the water table (or if more than one – below the uppermost water table)? Y= yes, N = no |
| 7Type of seepage into the mine workings: C = continuous, E = episodic, N = not evident in the reporting period. |
| 8If the mine is divided into separate sections for the purposes of the calculation - name of the section. Please attach map showing sections. |
| 9Any relevant comments. |
| 10Description of aquifer interference activity (Refer to Section 2 of the Guideline) |

1. **Location map**

**(please attach)**

* 1. **Mandatory under 31B3(a): The relationship between the horizontal area of any pit associated with the mine and the elevation from the bottom of the pit based on survey data for the pit:**

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| Are there any pits left open on site | Yes/No |
| Are there any partially backfilled pits/final voids on site | Yes/No |
| Does the base of the open pits/ partially backfilled pits/final void extend below natural water table:  | Yes/No |
| Are pit lakes formed/being formed in open pits/final void | Yes/No |
| Dimensions of open pits/final void left on site |  |
| Extent of the pit lake, if any  |  |
| Local hydrological conditions that affect the pit lake. Please describe:  |
| * Water inflow components: E.g. surface run-off, spoil seepage, groundwater ingress, etc.
* Water outflow components: E.g. evaporation, groundwater outflow, surface outflow if the void is completely filled, etc.
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* 1. **Mandatory under 31B3(a): Outline the relationship and changes between the operational pit and the final void and/or landform information of any pits/final void left on site using cross-section/sections (please attach) showing:**
1. Aquifers intercepted during pit excavation
2. Groundwater levels and estimated seasonal fluctuations
3. Inferred water table drawdown (if relevant)
4. Lowest point of excavation across the site and the final elevation
5. Final void and final rehabilitated landform
6. Groundwater inflows and outflows
7. **Mandatory under 31B3(b): a prediction of the long term annual, steady state entry of underground water into any pit/area of the mine that is rehabilitated:**

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| --- | --- | --- |
| The predicted long term annual, steady state entry of underground water into any mine pit (rehabilitated or not rehabilitated) | Estimation of evaporation | Estimation of off site migration/diversion |
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1. **Mandatory under 31B3(c) an explanation of the method the holder used to make the prediction mentioned in Section 31B3(b)**
* The methods used to make these predictions and estimations are to be explained to demonstrate its validity. Robust scientific principles are to be used using actual data collected during ownership of the lease.

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1. **Site hydrogeological setup (good industry practice)**

6.1 Brief description of site aquifers and their properties:

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|  E.g. Quaternary alluvium. Approximately 20m thick. Laterally discontinuous. |
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6.2 Hydrograph, if data available, showing groundwater levels and seasonal fluctuations (please attach)