# Ground, earthen structure and stockpile failure report form

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| --- | --- | --- | --- |
| Site name: |  | Report number: |  |
| Location on the site: |  | Date/time of failure: |  |
| Position within site: |  | Date barricaded: |  |
| Type of Failure: |  | RL of failure: |  |
| Salt dissolution [ ] freshwater ingress [ ] Scouring [ ] Slippage [ ] Flood [ ] Tidal inundation [ ] Overtopping [ ] Wave erosion [ ] Drainage system [ ] Unknown [ ]  |
| Estimated loss of material of failure:(cubic metres or tonnes) |
| Co-ordinates: | Bottom leftmEmNmRL | Top rightmEmNmRL |
| Failure dimensions:(L x W x H) (m) |

#### Failure description

Brief factual description of failure mode. Refer to figure 1 overview plan and photos 1 and 2 (over all and close up).

#### Affect on operations

Brief factual description on immediate safety impact to operations of the slip (ie if haul road or operations were affected, describe how)

#### Monitoring methods used

Brief description of monitoring (eg visual and frequency of monitoring) controls in place prior to the incident. What procedures are in place to inspect the area after weather events ie heavy rains and cyclonic activity?

#### Monitoring observations

Brief factual account of monitoring observations prior to slip. Last date, time of S44 inspections, any observations of significance noted? Any sign of instability noted? Refer to figure 2 showing location of inspection, did the inspection trigger any new controls (hazard alert etc). State the trigger, time and control implemented.

#### Geology description

Brief factual description of geology (eg ground on which structure constructed, materials used, protection provided ie rock armour). Was ground structure involved in failure?

#### Influence of water / weather

Factual statement describing the influence of water and weather on the failure.

#### Mining activity at time of failure

Any operational activity in progress in the immediate vicinity at the time of the failure? If the operations were closed, state for the reason and from what time. State and list any relevant hazard alerts, and hazard controls in the failure area.

#### Immediate and temporary controls

State the immediate measures undertaken to secure the area. Attach new hazard alert. Indicate which controls are in place prior and post incident. The future controls may include further analysis of appropriate medium and long term remediation options.

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| Further failure dimensions |
| Estimated loss of material |  | Failed batter heights / depth of ground subsidence |  |
| Failed batter angles |  | Overall failed area |  |
| Berms in failed area |  | Berm widths in failed area |  |

Design and as built parameters for levee, roadways, crystallizer and stockpile pavement bases. Also apply for product stockpile quarry incidents.

|  |  |
| --- | --- |
| Site dimensions (L x W x H) (m) |  |
| Depth (m) |  |
| Operating surface RL (m) |  |
| Design | Actual |
| Batter angle (degrees) |  |
| Batter height (m) |  |
| Berm width (m) |  |
| Product / material slope angle |  |
| Stockpile / quarry height / depth |  |

|  |  |
| --- | --- |
| Name of person completing report: |  |
| Date printed: |  |
|  |  |
| Name of person reviewing report: |  |

Photo 1: Overview of incident area.

Photo 2: Close up of incident area.

Attach relevant red banner to final report (PDF) – submitted by registered manager via SRS