

# Incident Investigation Report

---

**Incident:** Eval - Rockfall

**Description:** A rockfall occurred at 3:15 PM after blasting, striking an excavator and causing minor injuries to operator John Miller, following inadequate post-blast inspection and heavy rainfall conditions.

---

**Visibility:** Only me

**Created By:** eraydinekin@gmail.com

**Created At:** May 18, 2025, 05:28 PM

**Last Updated At:** May 18, 2025, 05:29 PM

# Quality Review

Last updatedMay 18, 2025, 05:29 PM • eraydinekin@gmail.com

ApprovedMay 18, 2025, 05:29 PM • eraydinekin@gmail.com

Category	Positives	Opportunities for Improvement	Recommendations
Investigation Team	<ul style="list-style-type: none"><li>Inclusion of key operational personnel including operator, supervisor, and shot-firer</li><li>Geotechnical engineer involvement in assessment</li></ul>	<ul style="list-style-type: none"><li>Limited evidence of cross-functional team participation</li><li>No mention of health and safety representative involvement</li></ul>	<ul style="list-style-type: none"><li>Include worker representative in investigation team</li><li>Add environmental specialist given rainfall impacts</li></ul>
Data Collection	<ul style="list-style-type: none"><li>Detailed timeline with specific time-stamps</li><li>Good documentation of environmental conditions including rainfall data</li></ul>	<ul style="list-style-type: none"><li>No mention of photos or visual evidence collection</li><li>Limited documentation of witness statements</li></ul>	<ul style="list-style-type: none"><li>Include photographic evidence of failure zone</li><li>Collect CCTV footage if available</li><li>Document formal witness statements</li></ul>
Root Cause Analysis	<ul style="list-style-type: none"><li>Comprehensive ICAM analysis covering multiple factors</li><li>Good identification of failed defenses</li></ul>	<ul style="list-style-type: none"><li>Some contributing factors lack clear evidence links</li><li>Limited exploration of systemic organizational issues</li></ul>	<ul style="list-style-type: none"><li>Strengthen evidence links for each contributing factor</li><li>Deeper analysis of organizational culture impacts</li></ul>
Corrective Actions	<ul style="list-style-type: none"><li>Comprehensive range of preventive measures</li><li>Good mix of technical and procedural controls</li></ul>	<ul style="list-style-type: none"><li>No clear assignment of responsibilities</li><li>Lack of specific timelines for implementation</li></ul>	<ul style="list-style-type: none"><li>Assign clear ownership for each action</li><li>Set SMART targets with completion dates</li></ul>
Human Factors	<ul style="list-style-type: none"><li>Consideration of communication issues</li><li>Analysis of decision-making factors</li></ul>	<ul style="list-style-type: none"><li>Limited examination of fatigue factors</li><li>No analysis of work pressure influences</li></ul>	<ul style="list-style-type: none"><li>Include fatigue assessment</li><li>Analyze production pressure impacts on decision-making</li></ul>

Risk Assessment	<ul style="list-style-type: none"> <li>• Detailed analysis of environmental risk factors</li> <li>• Good identification of control failures</li> </ul>	<ul style="list-style-type: none"> <li>• No formal risk matrix application</li> <li>• Limited assessment of control effectiveness</li> </ul>	<ul style="list-style-type: none"> <li>• Apply formal risk assessment methodology</li> <li>• Evaluate effectiveness of existing controls</li> </ul>
Technical/Engineering	<ul style="list-style-type: none"> <li>• Good analysis of geotechnical factors</li> <li>• Detailed consideration of blast impacts</li> </ul>	<ul style="list-style-type: none"> <li>• Limited analysis of drainage system design</li> <li>• No review of monitoring system specifications</li> </ul>	<ul style="list-style-type: none"> <li>• Include detailed engineering assessment of drainage systems</li> <li>• Review adequacy of monitoring technology</li> </ul>
Report Quality (Structure)	<ul style="list-style-type: none"> <li>• Clear organization with logical flow</li> <li>• Good use of PEEPO framework</li> </ul>	<ul style="list-style-type: none"> <li>• Inconsistent level of detail across sections</li> <li>• Some repetition in contributing factors</li> </ul>	<ul style="list-style-type: none"> <li>• Standardize detail level across sections</li> <li>• Include executive summary</li> <li>• Add appendices for supporting data</li> </ul>