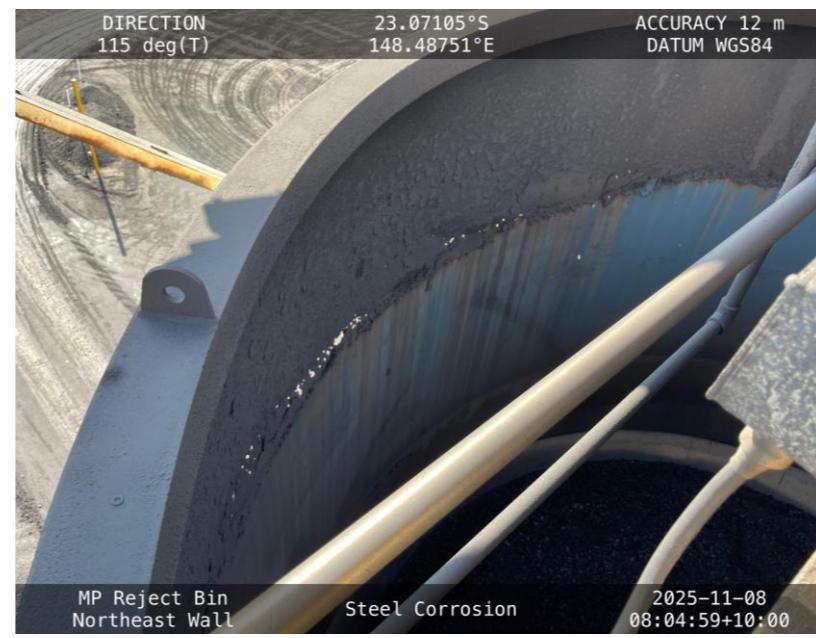


| DEFECT NUMBER | OC37.01 | EQUIPMENT | KPBN01 - MP Reject Bin | FACILITY | Oaky Creek Open Cut | | |
|--|---|---|--|---|--|---|--|
| DEFECT CATEGORY | Structural | COMPONENT | Steel Plate | INSPECTED BY | Eduard Hernandez | | |
| DEFECT TYPE | Steel Corrosion | LOCATION | Top ring northeast wall of the MP Reject Bin | DATE | 08-11-2025 | | |
| Description of Structural Integrity Issue | Advanced corrosion with rupture was identified along the top ring of the northeast wall of the MP Reject Bin. The defect presents as through-thickness perforations concentrated at the joint between the wall and the upper ring, with surrounding surface delamination and coating failure. The ruptures compromise structural continuity of the bin wall. | | | | | | |
| Structural Risk Assessment: | Potential Incident: If not fixed, the MP Reject Bin could fail, leading to a loss of containment and potential hazards for personnel nearby. This failure may also disrupt operations and result in significant financial losses. | Structural Failure Mechanism: The corrosion causes through-thickness perforations that compromise the bin wall's structural integrity, leading to potential buckling and loss of load-bearing capacity. | Risk Assessment: | Consequence: 3-Moderate. This rating is based on Financial impact: \$5M to \$50M operating profit \$1M to \$5M property damage \$5M to \$25M asset devaluation | Likelihood C - Possible - Could occur more than once during a lifetime or life of plant. | | |
| | | | Required Action: | Planned Corrective Action | Medium [13] | | |
| Previous Audit Result for Defect: | No previous report available. | | | | Severity Level: Abnormal | | |
| Corrective Action: | 1. Remove all debris and built-up fines from the affected area. 2. Sandblast the corroded steel to remove rust and old coatings. 3. Weld a reinforcement plate over the perforated areas to restore structural integrity. 4. Apply a corrosion-resistant coating to protect the repair and surrounding steel. 5. Clean the area again to ensure no contaminants remain. | | | | Estimated Corrective Action Cost: 30,000 - 50,000 AUD | | |
| Photos: |  <p>DIRECTION 218 deg(T) 23.07091°S 148.48765°E ACCURACY 4 m DATUM WGS84 MP Reject Bin Northeast Wall Steel Corrosion 2025-11-08 08:24:51+10:00</p> | | |  <p>DIRECTION 115 deg(T) 23.07105°S 148.48751°E ACCURACY 12 m DATUM WGS84 MP Reject Bin Northeast Wall Steel Corrosion 2025-11-08 08:04:59+10:00</p> | |  <p>DIRECTION 114 deg(T) 23.07102°S 148.48753°E ACCURACY 19 m DATUM WGS84 MP Reject Bin Northeast Wall Steel Corrosion 2025-11-08 08:05:08+10:00</p> | |