

# MineGuard

Automated Detection & Volumetric Estimation

## Technical Report: Lease2.kml

Date: 07 December 2025

**Prepared For: State Dept. of Mining**

**Prepared By: Team Mine Sector 256**

1. EXECUTIVE SUMMARY

Compliance Status: **NON-COMPLIANT**

Analysis of Lease2.kml detected 5,432.41 m2 of mining activity outside the authorized boundary.  
Total estimated illegal volume: 22,072.66 m3 (approx 1,471 truckloads).

Metric	Value
Verified Illegal Area	5,432.41 m2
Avg. Pit Depth	4.06 m
Total Volume	22,072.66 m3