

MAMATWAN MINE

TAILINGS FACILITY INFORMATION

Tailings Storage Facility (TSF) Information Summary (GISTM Requirement 15.1 B1 & B5)

Our South Africa Manganese operation consists of two manganese mines in the Kalahari Basin in the country's Northern Cape province, which is home to 80 per cent of the world's manganese.

Mamatwan mine is located approximately 25 km south of the town of Hotazel, in the Northern Cape Province. The topography in the area is mostly flat with a mean elevation of 1100 metres above sea level. No mapped watercourses occur on the site, with the Vlermuisleegte watercourse situated around 6 km to the west of the mine.

The mining method used is a conventional open-pit operation with drilling, blasting, loading ore and waste, and hauling it with rigid-frame dump trucks. Ore is taken to the processing plant where it is processed through screening, crushing, and washing. Wet fines are pumped to the Adam's Pit TSF.



Adam's Pit

Adam's Pit is used for in-pit disposal of tailings, with a maximum depth/wall height of approximately 40 metres and crest perimeter length of approximately 1,310 metres. The pit is used to store manganese tailings and water pumped from the process plant and forms part of the overall tailings management system. Water from the mining pits is also periodically pumped into the facility.

The walls of the pit comprise of open-pit overburden and low-grade ore. The open pit was historically used for storage of dry material from the mining operations (low grade ore). Backfill of the eastern gap between Adam's Pit side walls and the dry-stacked material commenced in 2002. An open-ended high-density polyethylene slurry pipeline delivers the tailings to the south-west corner of Adam's Pit. Reclamation of Adams Pit material commenced in 2024.

There is sufficient volume within Adam's Pit to contain tailings until the end of Mamatwan's projected mine life.