DUST MANAGEMENT FACT SHEET





GOLD IN THE WITWATERSRAND BASIN

1900s

The historic mine dumps comprised either sand or slime. Sand dumps resulted from the early "stamp milling" process and usually contained higher amounts of encapsulated gold than the slimes dams of later years when recovery processes had advanced. Slime was a product of the "tube and ball mill" recovery process. Hundreds of millions of tonnes of slime are still located in the Witwatersrand Basin.

MID-1880s

Gold was discovered in the Witwatersrand Basin of the then Republic of Transvaal.

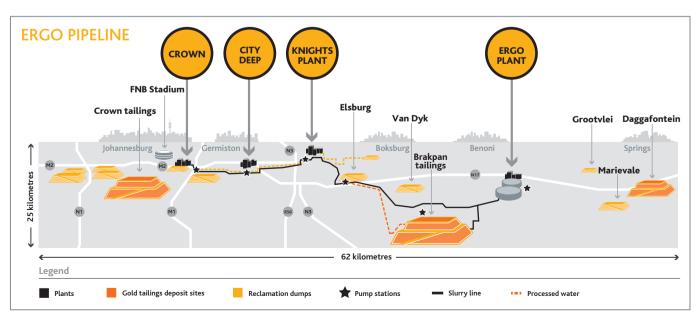
1970s

Underground mining created large deposits of "waste" material or tailings, known as "mine dumps" and by the 1970s Johannesburg was surrounded by these geographic landmarks. Although classified as residue, the tailings material contained millions of minute gold particles.

2016

DRDGOLD, a modern, technology-driven company, is set on mining the dumps of yesteryear. Mining of surface gold resources takes place above ground. It involves the retreatment of vast quantities of sand and slime in a metallurgical plant to ensure that minute particles of remaining gold are extracted for smelting and sale.

DRDGOLD's tailings facilities, managed by a single operating entity, Ergo Mining Proprietary Limited (Ergo), mainly comprise sand, rock, gravel, debris and water (which evaporates slowly). During periods of high wind, dust tends to rise off our sites and is sometimes considered a nuisance by surrounding communities. By law, dustfall should not exceed 600mg/m³ per day in a residential area. The dustfall from our operations seldom exceeds 300mg/m³ per month.



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DUST SUPPRESSION

DRDGOLD has spent more than R252 million on dust control since 2012 for the benefit of households and businesses in the area. Many initiatives have been in place for years and are yielding good results but, until we have removed the dumps we remain committed to suppressing dust.

Dust suppression methods



 water bowsers spray binding chemicals on all active haul and access roads



 slime mining, which once completed will have removed the potential source of dust permanently.



 netting to reduce wind velocity, decrease airborne dust from exposed surfaces and support vegetation growth



 vegetation on open surfaces and side slopes of tailings dams



 cladding on main access roads



 mining methods that reduce dust (such as mining sand dumps into the direction of the prevailing wind to prevent exposure of open faces)



 ongoing research into new methods of dust suppression

In 2015, DRDGOLD vegetated a total of 34ha at the Crown complex and is on track to complete the programme in 2022.

LAND CLEARED FOR REDEVELOPMENT

Another key dust contributor is the land DRDGOLD clears for redevelopment – in 2015, the National Nuclear Regulator approved 194ha of rehabilitated land for alternative use. Removal of these sites from the mining area by the Department of Mineral Resources, so that they can be developed, is now in progress.

DUST MONITORING

Windblown dust fall-out is measured and monitored, at our request, by an independent company, SGS South Africa (Proprietary) Limited, which uses the American Society for Testing and Materials (ASTM) standard method for collection and analysis of dustfall (ASTM D 1739). The results are shared quarterly with a dust monitoring forum.

STAKEHOLDER ENGAGEMENT

Dust complaint registers are kept at our operations, and we log and register all complaints that need to be addressed. The results of our dust monitoring programme – are presented at forum meetings.

The forum, established by DRDGOLD in 1980, is chaired by Prof Harold Annegam, an independent academic, is open to all interested and affected parties: members of the public, non-governmental organisations, government departments, businesses and environmental consultancies.

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