



LEVEL 3 ENVIRONMENTAL INCIDENTS IN 2020

No level 4 or 5 environmental incidents occurred during 2020.

No	Incident date	Incident level	Operation/site	Description	Remedial action taken	Current status
SA PGM operations						
1	24 April 2020	3	Kroondal – K150 return water dam	Excessive rainfall of some 100mm between 1 and 21 April 2020 caused an uncontrolled decant from the K150 return water dam. This incident was exacerbated by plant-related stoppages due to COVID-19. No negative environmental consequences were observed.	<ul style="list-style-type: none"> Plant operations were resumed to reduce water flow to the return water dam via the tailings storage facilities The return water dam was desilted and reeds were removed to increase storage capacity 	Incident closed on 11 June 2020
2	24 April 2020	3	Rustenburg – UG2 concentrator	An excessive rainfall event that occurred between 1 and 21 April 2020 caused an uncontrolled decant of some 30,000kl from the Klipgat return water dam. This incident was exacerbated by plant-related stoppages due to COVID-19. No negative environmental consequences were observed.	<ul style="list-style-type: none"> Plant operations were resumed to reduce water to the return water dam via the tailings storage facilities The return water dam to be desilted and reeds were removed to increase storage capacity 	Desilting and reed removal to be completed by mid-2021
SA gold operations						
3	3 July 2020	3	Kloof	Failure of the Leeudoorn tailings storage facility slurry pipeline due to the substandard welding of the pipe at the flange. Some 1,179m ³ of tailings spilt via a stormwater canal to the Loopspruit causing some tailings material to enter the water course. It was, however, a short-term spill lasting two hours. No negative environmental impacts were observed.	<ul style="list-style-type: none"> The spilled tailings was contained and cleaned up Improved quality checks on the pipelines Increased security patrols on the pipeline route 	The incident was closed on 21 October 2020
4	3 September 2020	3	Rand Uranium surface operation	Sabotage of the Cooke Plant slurry pipeline by illegal miners caused Dump 20 to fail. The failure resulted in some 1,159m ³ of tailings spilling next to the pipeline and onto a road. However, no tailings material entered the water course. It was a short-term spill of a few hours. No negative environmental impact was observed.	<ul style="list-style-type: none"> Clearance of the spillage on the road Containment of spilt slurry into the soil with constructed berms Cleaning of contained slurry when dried Increase of security patrols on the pipeline route 	The incident was closed on 25 September 2020

No	Incident date	Incident level	Operation/site	Description	Remedial action taken	Current status
US PGM operations						
5	23 November 2020	3	Stillwater	High winds resulted in wind-blown tailings that exceeded air permit standard of 20% opacity at Hertzler tailings facility. This was a self-reported violation to Air Quality Bureau.	<ul style="list-style-type: none"> Additional mine water was added in an effort to submerge tailings, as an interim measure Magnesium chloride solution was applied as dust suppressant to exposed tailings Weekly opacity readings conducted to show corrective action effectiveness Ongoing weekly monitoring to monitor the need for additional magnesium chloride application 	Closed – 30 November 2020



LEVEL 3 ENVIRONMENTAL INCIDENTS IN 2020 CONTINUED

An update on the 2019 level 3 incidents reported that were not closed during the previous reporting period:

Date	Place	Description and remedial action	Progress/Status update
SA PGM operations			
13 November 2019	Marikana	<p>On 13 November 2019 the Rowland corner dam discharged into a tributary of the Klein Blesbokspruit for some 36 hours. This unplanned discharge incident impacted clean surface water and ground water. The incident was reported to the relevant regulatory authority.</p> <p>Subsequent detailed root cause analysis identified the inadequate flexibility to transfer the water to other operations as the main deficiency.</p> <p>Actions taken included stopping the plant feeding the Rowland corner dam to reduce the water volumes to the corner dam.</p>	<ul style="list-style-type: none"> • Additional mine water was added in an effort to submerge tailings, as an interim measure • Magnesium chloride solution was applied as dust suppressant to exposed tailings • Weekly capacity readings conducted to show corrective action effectiveness • Ongoing weekly monitoring to monitor the need for additional magnesium chloride application
11 December 2019	Rustenburg	<p>During an environmental inspection, Naude dam at Thembelani 1 shaft was found overflowing into the natural environment. The overflow occurred for approximately three days, and the volume was estimated to be some 5,000m³. Water samples for water quality analysis were taken.</p> <p>Subsequent detailed root cause analysis identified deficiencies:</p> <ul style="list-style-type: none"> • Heavy rainfall • Accumulation of upstream flows (first flush) • Klipfontein diversion was not closed • Dam wall at the Naude dam is damaged <p>Actions:</p> <ul style="list-style-type: none"> • Proceed with the Section 21(c) and river crossing stabilisation project • Identify and implement proper measures to ensure the effective operation of the Klipfonteinspruit diversion around the Naudé Dam • Remove litter from the watercourse 	<p>Sibanye-Stillwater plans to implement adequate measures to effectively divert the Klipfonteinspruit around the Naudé dam after all authorisations are in place. Due to the time it could take to obtain the necessary authorisations, the Department of Water and Sanitation (DWS) should be requested to give a 'directive' to implement measures in the interim, awaiting the authorisations.</p> <p>A process to repair the Naude dam is underway</p> <div style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"> <p>For more information on our actions to minimise our environmental impact, please refer to the full 2020 Integrated report available at https://www.sibanyestillwater.com/news-investors/reports/annual.</p> </div>

OUR VISION: Superior value creation for all our stakeholders through the responsible mining of our mineral resources

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