

1. "Tailings Dam" Name/Identifier	2. Location	3. Ownership	4. Status	5. Date of initial operation	6. Is the Dam currently operated or closed as per currently approved design?	7. Raising method	8. Current Maximum Height	9. Current Tailings Storage Impoundment Volume	10. Planned Tailings Storage Impoundment Volume in 5 years time.	11. Most recent Independent Expert Review	12. Do you have full and complete relevant engineering records including design, construction, operation, maintenance and/or closure.	13. What is your hazard categorisation of this facility, based on consequence of failure?	14. What guideline do you follow for the classification system?	15. Has this facility, at any point in its history, failed to be confirmed or certified as stable, or experienced notable stability concerns, as identified by an independent engineer (even if later certified as stable by the same or a different firm).	16. Do you have internal/in house engineering specialist oversight of this facility? Or do you have external engineering support for this purpose?	17. Has a formal analysis of the downstream impact on communities, ecosystems and critical infrastructure in the event of catastrophic failure been undertaken and reflect final conditions? If so, when did this assessment take place?	18. Is there a) a closure plan in place for this dam, and b) does it include long term monitoring?	19. Have you, or do you plan to assess your tailings facilities against the impact of more regular extreme weather events as a result of climate change, e.g. over the next two years?	20. Any other relevant information and supporting documentation. Please state if you have omitted any other exposure to tailings facilities through any joint ventures you may have.				
Cullinan Diamond Mine	No. 7 Slimes Dam	25°39'11.03"S 28°30'31.99"E	25.05306389 28.50888611			Owned by: Petra Diamonds Operated by: Petra Diamonds	Active	1958	Yes	Upstream	Main Wall = 87.3m Township Wall = 12.9m Valley wall = 5m Final elevation as per current DWA permit: 1473 maml	60 000 000m ³	65 000 000m ³	2018 Annual Report by Jones & Wagener Quarterly Reports for January 2019 up to July 2019 by Jones & Wagener	Yes	High Hazard	Safety Classification (SANS 10286)	Yes. In 1957 numerous slips occurred. The following measures were implemented: - The outer wall slopes were flattened to a slope of 17°; - The freeboard requirement was increased to minimize seepage; and - a slimes blanket layer was deposited as an impermeable barrier to seepage into the wall.	External engineering specialist	Yes, Zol (Zone of Influence) was determined as per SANS 10286 in 2007.	Yes and Yes	Yes	cPTU Test work conducted in 2019, test results indicated that the Dam wall is very safe and highly stable. Ten additional piezometers were installed on the Main and Valley wall in January 2019.
	Britz FRD	28°22'46.20"S 23°25'39.18"E	28.3795 23.42755			Owned by: Petra Diamonds Operated by: Petra Diamonds	Active	2008	Yes	Upstream	25.8m	13 872 624m ³	2 694 294m ³	Not available	Yes	Medium Hazard	Safety Classification (SANS 10286)	No	External and internal engineering specialist	Yes, Zol was determined as per SANS 10286 in 2018.	a) No b) No	No	-Q 7: In 2015 the facility was converted from an impoundment dam to an upstream tailings raised dam. -Q 11: The facility has never been inspected /reviewed by an independent expert. The facility is however being operated by a company that specialises in Slimes Dam operations (Steffanutti Stocks), and inspected and audited by a third party (Jones and Wagener) on a quarterly basis. -Q 12: Original design information not available.
Fisch Diamond Mine	FRD 1	28°23'29.48"S 23°27'52.50"E	28.39152222 23.46458333			Owned by: Petra Diamonds Operated by: Petra Diamonds	Active	Not Known	Yes	Upstream	32.7m	11 812 297m ³	369 231m ³	Not available	No	High Hazard	Safety Classification (SANS 10286)	No	External and internal engineering specialist	Yes, Zol was determined as per SANS 10286 in 2018.	a) No b) No	No	-Q 11: The facility has never been inspected /reviewed by an independent expert. The facility is however being operated by a company that specialises in Slimes Dam operations (Steffanutti Stocks), and inspected and audited by a third party (Jones and Wagener) on a quarterly basis. -Q 12: Original design information not available.
	FRD 2	28°23'58.88"S 23°28'00.85"E	28.39968889 23.46690278			Owned by: Petra Diamonds Operated by: Petra Diamonds	Inactive	Not Known	Yes	Upstream	28.1m	9 172 983m ³	Not Active - Busy with rehabilitation. No further deposition.	Not available	No	High Hazard	Safety Classification (SANS 10286)	No	External and internal engineering specialist	Yes, Zol was determined as per SANS 10286 in 2018.	a) No b) No	No	-Q 11: The facility has never been inspected /reviewed by an independent expert. The facility is however being operated by a company that specialises in Slimes Dam operations (Steffanutti Stocks), and inspected and audited by a third party (Jones and Wagener) on a quarterly basis. -Q 12: Original design information not available.
	FRD 3	28°23'50.24"S 23°28'30.12"E				Owned by: Petra Diamonds Operated by: Petra Diamonds	Active	Not Known	Yes	Upstream	26.4m	12 805 330m ³	553 846m ³	Not available	No	High Hazard	Safety Classification (SANS 10286)	No	External and internal engineering specialist	Yes, Zol was determined as per SANS 10286 in 2018.	a) No b) No	No	-Q 11: The facility has never been inspected /reviewed by an independent expert. The facility is however being operated by a company that specialises in Slimes Dam operations (Steffanutti Stocks), and inspected and audited by a third party (Jones and Wagener) on a quarterly basis. -Q 12: Original design information not available.
	Infill Dam	28°23'41.22"S 23°28'04.31"E	28.39478333 23.46786389			Owned by: Petra Diamonds Operated by: Petra Diamonds	Active	Not Known	Yes	Upstream	30.6m	1 342 173m ³	184 615m ³	Not available	No	High Hazard	Safety Classification (SANS 10286)	No	External and internal engineering specialist	Yes, Zol was determined as per SANS 10286 in 2018.	a) No b) No	No	-Q 11: The facility has never been inspected /reviewed by an independent expert. The facility is however being operated by a company that specialises in Slimes Dam operations (Steffanutti Stocks), and inspected and audited by a third party (Jones and Wagener) on a quarterly basis. -Q 12: Original design information not available.
Koffiefontein Diamond Mine	West Dam	29°26'03.40"S 24°59'40.01"E	29.43427778 24.99444722			Owned by: Petra Diamonds Operated by: Petra Diamonds	Active on rotational basis	1971	Yes	Upstream method using spray bar/spigot method of deposition	25.0m	8 711 425m ³	2 968 254m ³ (3.74Mt)		No	High Hazard	Safety Classification (SANS 10286)	No	External	Yes. Date Not Available	Yes and Yes	Effects of flooding and drought on facilities	
	Middle Dam	29°25'54.15"S 25°00'02.51"E				Owned by: Petra Diamonds Operated by: Petra Diamonds	Active on rotational basis	1971	Yes	Upstream method using spray bar/spigot method of deposition	25.0m	9 637 601m ³		Zithole Consulting carried out a Conceptual Design in May 2015 assessing the facility and proposing extensions to provide ongoing deposition capacity	No	High Hazard	Safety Classification (SANS 10286)	No	External	Yes. Date Not Available	Yes and Yes	No	
	East Dam	29°26'37.51"S 25°00'18.69"E				Owned by: Petra Diamonds Operated by: Petra Diamonds	Care and Maintenance	1971	No, Dam is not Operational	Not operational	30.0m	68 156m ³	Nil		No	High Hazard	Safety Classification (SANS 10286)	No	External	Yes. Date Not Available	Yes and Yes	No	
Williamson Diamond Mine	Currently we have Tailings dam 3 Phase 1 max size 1400m ³ x 800mW x 30mH. Next plan is to extend Tailings dam 3 Phase 2 and in future Phase 3 with similar size as Phase 1.	3°31'35.4"S 33°36'49.2"E				Owned by: Petra Diamonds Operated by: Petra Diamonds	Active.	2005	Yes	Modified Centreline.	26m	25 760 000m ³	9 920 634 m ³ (12,500,000 tons)	Nov 2019 Geotech review done by SRK Mining Consultant Geotech. Gerhardus Keyter	Yes	The facility hazard categorisation is HIGH in case of failure as per Tanzania Ministry of Water (MoW, 2018) and Canadian dam association (CDA, 2007) Dam safety guidelines.	1. ANCOLD guidelines (2012). 2. Canadian dam association (CDA 2007). 3. Tanzania Ministry of water (MoW) guidelines (April 2018).	Yes	Yes in house	Yes May 2019	Yes and yes	Yes	1. The government regulatory bodies normally do inspections and non compliance is rectified and inspected again. 2. We also provide quarterly report to the Ministry of Minerals Regional office in Shinyanga.