

DRAFT - Mine Tailings Disclosure Table (0.

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 (Meter)	9. Current Tailings Storage Impoundment Volume (Mm3)	10. Planned Tailings Storage Impoundment Volume in 5 years time. (Mm3)	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 to 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.	
2 Kalunga	Manganês Azul, Parauapebas, Pará, Brazil -50.305265 : - 6.118713(SIRGAS 2000)																			Structure was decharacterized in the first quarter of 2020.
3 Kalunga	Manganês Azul, Parauapebas, Pará, Brazil -50.302444 : - 6.120066(SIRGAS 2000)																			Structure was decharacterized in the first quarter of 2020.
5 - MAC System	Águas Claras, Nova Lima, Minas Gerais, Brazil -43.893003 : - 19.977087(SIRGAS 2000)	Owned and operated	Inactive/Care and Maintenance	1989	Yes	Downstream	78.00	15.55	15.55	mar/20	Yes	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	Yes	Both	Yes - 2016; 2018; 2020	Yes. Yes.	Yes		
5 - Mutuca	Mutuca, Nova Lima, Minas Gerais, Brazil -43.942562 : - 20.026226(SIRGAS 2000)	Owned and operated	Active	1989	Yes	Downstream	55.00	7.10	11.00	mar/20	No	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	Yes	Both	Yes - 2016; 2018; 2020	Yes. Yes.	Yes		
Azul	Manganês Azul, Parauapebas, Pará, Brazil -50.291473 : - 6.078161(SIRGAS 2000)	Owned and operated	Active	1998	Yes	Downstream	32.00	13.00	13.00	mar/20	Yes	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	No	Yes. Yes.	Yes		
B3/B4	Mar Azul, Nova Lima, Minas Gerais, Brazil -43.954696 : - 20.049122(SIRGAS 2000)	Owned and operated	Inactive/Care and Maintenance	No historical information (Before Vale)	Yes	Upstream	55.00	2.69	2.70	mar/20	No	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	Yes	Both	Yes - 2016; 2018; 2020	Yes. No.	Yes		
Bacia 02 Pé da Serra	Urucum, Corumbá, Mato Grosso do Sul, Brazil -57.636445 : - 19.171285(SIRGAS 2000)	Owned and operated	Active	2007	Yes	Single Step	4.25	0.03	0.03	mar/20	Yes	Medium	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes, 2017	Yes. No.	Yes		
Bacia 02-03 High da Serra Mn	Urucum, Corumbá, Mato Grosso do Sul, Brazil -57.616698 : - 19.190809(SIRGAS 2000)	Owned and operated	Inactive	1987	Yes	Single Step	10.07	0.01	0.01	sep/19	No	Low	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes, 2017	Yes. No.	Yes	4. Alteration in accordance with RISR Sep/19.	
Bacia 03-04 Pé da Serra	Urucum, Corumbá, Mato Grosso do Sul, Brazil -57.639508 : - 19.174031(SIRGAS 2000)	Owned and operated	Active	2007	Yes	Single Step	4.20	0.06	0.08	mar/20	Yes	Medium	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes, 2017	Yes. No.	Yes	4. Alteration in accordance with RISR Sep/19.	
Bacia 05 High da Serra	Urucum, Corumbá, Mato Grosso do Sul, Brazil -57.613781 : - 19.19184(SIRGAS 2000)	Owned and operated	Inactive	1987	Yes	Single Step	11.69	0.01	0.01	sep/19	No	Low	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes, 2017	Yes. No.	Yes	4. Alteration in accordance with RISR Sep/19.	
Bacia 07 High da Serra	Urucum, Corumbá, Mato Grosso do Sul, Brazil -57.614591 : - 19.192036(SIRGAS 2000)	Owned and operated	Active	1987	Yes	Single Step	13.05	0.01	0.01	sep/19	Yes	Low	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes, 2017	Yes. No.	Yes		

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Campo Grande	Alegria, Mariana, Minas Gerais, Brazil -43.487317 : -20.176068(SIRGAS 2000)	Owned and operated	Inactive/Care and Maintenance	1998	Yes	Upstream	99.30	22.98	22.98	mar/20	No	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	Yes	Both	Yes - 2016; 2018; 2020	Yes. Yes.	Yes	7 - Raising method altered in accordance with RISR Sep/19.
Conceição	Conceição, Itabira, Minas Gerais, Brazil -43.274146 : -19.647591(SIRGAS 2000)	Owned and operated	Active	1977	Yes	Downstream	60.00	32.87	41.06	mar/20	No	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	Yes	Both	Yes - 2016; 2018; 2020	Yes. Yes.	Yes	
Diogo	Água Limpa, Rio Piracicaba, Minas Gerais, Brazil -43.196194 : -19.929942(SIRGAS 2000)	Owned and operated	Active	1993	Yes	Downstream	39.00	6.57	9.57	mar/20	No	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	Yes	Both	Yes - 2016; 2018; 2020	Yes. Yes.	Yes	
Doutor	Timbopeba, Ouro Preto, Minas Gerais, Brazil -43.490528 : -20.290449(SIRGAS 2000)	Owned and operated	Inactive/Care and Maintenance	2001	Yes	Upstream	77.00	37.68	48.18	mar/20	No	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	Yes	Both	Yes - 2016; 2018; 2020	Yes. Yes.	Yes	7 - Raising method altered in accordance with RISR Sep/19.
Fernandinho	Abóboras, Nova Lima, Minas Gerais, Brazil -43.859515 : -20.18332(SIRGAS 2000)	Owned and operated	Inactive/Care and Maintenance	2006	Yes	Upstream	19.00	1.02	1.02	mar/20	No	Low	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes - 2020	Yes. No.	Yes	
Forquilha I	Fábrica, Ouro Preto, Minas Gerais, Brazil -43.855737 : -20.406063(SIRGAS 2000)	Owned and operated	Inactive/Care and Maintenance	1978	Yes	Upstream	98.30	12.76	12.76	mar/20	No	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	Yes	Both	Yes - 2018; 2020	Yes. No.	Yes	Item 10 - The dam is undergoing the decharacterization process. It will no longer receive tailings. 18.The closure plan consists of decharacterization so there will be no need for a containment structure and for geotechnical monitoring. Environmental monitoring will be required according to environmental licensing conditions.
Forquilha II	Fábrica, Ouro Preto, Minas Gerais, Brazil -43.851811 : -20.408278(SIRGAS 2000)	Owned and operated	Inactive/Care and Maintenance	1988	Yes	Upstream	95.76	22.78	22.78	mar/20	No	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	Yes	Both	Yes - 2018; 2020	Yes. No.	Yes	Item 10 - The dam is undergoing the decharacterization process. It will no longer receive tailings. 18.The closure plan consists of decharacterization so there will be no need for a containment structure and for geotechnical monitoring. Environmental monitoring will be required according to environmental licensing conditions.
Forquilha III	Fábrica, Ouro Preto, Minas Gerais, Brazil -43.83663 : -20.410942(SIRGAS 2000)	Owned and operated	Inactive/Care and Maintenance	2000	Yes	Upstream	77.00	19.48	19.48	mar/20	No	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	Yes	Both	Yes - 2018; 2020	Yes. No.	Yes	Item 10 - The dam is undergoing the decharacterization process. It will no longer receive tailings. 18.The closure plan consists of decharacterization so there will be no need for a containment structure and for geotechnical monitoring. Environmental monitoring will be required according to environmental licensing conditions.
Forquilha IV	Fábrica, Ouro Preto, Minas Gerais, Brazil -43.851556 : -20.394796(SIRGAS 2000)	Owned and operated	Inactive/Care and Maintenance	2014	Yes	Centerline	105.00	3.70	3.70	mar/20	Yes	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	Yes	Both	Yes - 2018; 2020	Yes. Yes.	Yes	Item 10 - The dam will only be able to operate when Forquilha I and Forquilha II are decharacterized. 15 - Negative DCE (Stability Condition Statement) in Sep/19 and Mar/20.
Forquilha V	Fábrica, Ouro Preto, Minas Gerais, Brazil -43.839693 : -20.39488(SIRGAS 2000)	Owned and operated	Active	2020	Yes	Single Step	98.80	0.00	0.00	mar/20	Yes	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes - 2018; 2020	Yes. Yes.	Yes	4. The operational situation was changed to "active" due to the reception of surface drainage water, it is not receiving tailings from the plant since the site is closed. Item 9 - Water volume is equal to 425,000 m³. There are no tailings disposed in the structure.
Galego	Córrego do Meio, Sabará, Minas Gerais, Brazil -43.804528 : -19.857202(SIRGAS 2000)	Owned and operated	Inactive/Care and Maintenance	1992	Yes	Downstream	37.28	1.59	1.59	mar/20	Yes	Needs adequacy to SIGBM	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes - 2018; 2020	Yes. Yes.	Yes	
Gelado	Serra Norte, Parauapebas, Pará, Brazil -50.141444 : -5.979277(SIRGAS 2000)	Owned and operated	Active	1985	Yes	Downstream	34.00	141.19	152.99	mar/20	No	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes - 2016; 2018	Yes. Yes.	Yes	

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Gregório	Santa Cruz, Corumbá, Mato Grosso do Sul, Brazil -57.559979 : -19.224447(SIRGAS 2000)	Owned and operated	Active	1992	Yes	Centerline	34.50	4.61	9.30	mar/20	Yes	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes - 2016; 2018	Yes. Yes.	Yes	
Grupo	Fábrica, Ouro Preto, Minas Gerais, Brazil -43.865151 : -20.414798(SIRGAS 2000)	Owned and operated	Inactive/Care and Maintenance	1971	Yes	Upstream	44.13	1.25	1.25	mar/20	No	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	Yes	Both	Yes - 2019; 2020	Yes. No.	Yes	Item 10 - The dam is undergoing the decharacterization process. It will no longer receive tailings. 18.The closure plan consists of decharacterization so there will be no need for a containment structure and for geotechnical monitoring. Post-construction environmental monitoring will be necessary to achieve the site's environmental stability.
Itabiruçu	Conceição, Itabira, Minas Gerais, Brazil -43.286226 : -19.685378(SIRGAS 2000)	Owned and operated	Active	1981	Yes	Downstream	71.00	159.24	223.74	mar/20	No	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes - 2016; 2018; 2020	Yes. Yes.	Yes	
Kalunga	Manganês Azul, Parauapebas, Pará, Brazil -50.308309 : -6.112529(SIRGAS 2000)	Owned and operated	Active	1987	Yes	Downstream	21.00	1.03	1.03	mar/20	No	Medium	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	No	Yes. Yes.	Yes	
Maravilhas I	Pico, Itabirito, Minas Gerais, Brazil -43.873226 : -20.224925(SIRGAS 2000)	Owned and operated	Inactive/Care and Maintenance	1987	Yes	Downstream	37.40	2.47	2.47	mar/20	No	Medium	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	Yes	Both	Yes - 2016; 2018; 2020	Yes. No.	Yes	
Maravilhas II	Pico, Itabirito, Minas Gerais, Brazil -43.891707 : -20.214436(SIRGAS 2000)	Owned and operated	Inactive/Care and Maintenance	1996	Yes	Downstream	97.92	90.12	100.00	mar/20	No	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	Yes	Both	Yes - 2016; 2018; 2020	Yes. Yes.	Yes	
Maravilhas III	Pico, Itabirito, Minas Gerais, Brazil -43.908509 : -20.220594(SIRGAS 2000)	Owned and operated	Construction	Construction	Construction	Single Step	Construction	0.00	19.40	Construction	Construction	Construction	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	Construction	Both	In implementation	Yes. Yes.	Yes	
Norte/Laranjeiras	Brucutu, Barão de Cocais, Minas Gerais, Brazil 43°25'17.178"W : 19°50'52.494"S(SIRGAS 2000)	Owned and operated	Inactive/Care and Maintenance	2016	Yes	Single Step	58.80	32.31	50.00	mar/20	Yes	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	Yes	Both	Yes - 2016; 2018; 2020	Yes. Yes.	Yes	4 - Inactive structure since Dec/2019 due to the elevation to Level 1 as recommended by the MPMG audit; 15 - Negative DCE (Stability Condition Statement) in Mar/20.
Peneirinha	Capitão do Mato, Nova Lima, Minas Gerais, Brazil -43.963614 : -20.110615(SIRGAS 2000)	Owned and operated	Inactive/Care and Maintenance	No historical information (Before Vale)	Yes	Downstream	40.00	0.43	0.43	mar/20	Yes	Medium	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	Yes	Both	Yes - 2018; 2020	Yes. Yes.	Yes	7 - Raising method altered in accordance with RISR Sep/19.
Pontal System	Cauê, Itabira, Minas Gerais, Brazil -43.182944 : -19.625463(SIRGAS 2000)	Owned and operated	Inactive/Care and Maintenance	1972	Yes	Downstream	69.00	209.71	226.96	mar/20	No	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	Yes	Both	Yes - 2016; 2018; 2020	Yes. No.	Yes	18. Item B was altered to "no", since downstream internal dikes will be decharacterized.
Rio do Peixe System	Conceição, Itabira, Minas Gerais, Brazil -43.23642 : -19.674226(SIRGAS 2000)	Owned and operated	Active	1977	Yes	Single Step	31.00	16.89	16.88	mar/20	No	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes - 2016; 2018; 2020	Yes. No.	Yes	18. Item B was altered to "no", since downstream internal dikes will be decharacterized.
Sul (Córrego do Canal)	Brucutu, São Gonçalo do Rio Alow, Minas Gerais, Brazil 19°53'02.310"S : 43°23'09.448"W	Owned and operated	Active	1999	Yes	Downstream	83.00	53.16	63.16	mar/20	Yes	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	Yes	Both	Yes - 2016; 2018; 2020	Yes. Yes.	Yes	

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Sul Superior	Gongo Soco, Barão de Cocais, Minas Gerais, Brazil -43.596867 : -19.970176(SIRGAS 2000)	Owned and operated	Inactive/Care and Maintenance	No historical information (Before Vale)	Yes	Upstream	85.00	6.02	6.02	mar/20	No	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	Yes	Both	Yes - 2016; 2018; 2020	Yes. Yes.	Yes	
Timbopeba	Timbopeba, Ouro Preto, Minas Gerais, Brazil -43.496235 : -20.270514(SIRGAS 2000)	Owned and operated	Inactive/Care and Maintenance	1982	Yes	Single Step	64.90	27.02	34.00	mar/20	No	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes - 2016; 2018; 2020	Yes. Yes.	Yes	
Torto	Brucutu, São Gonçalo do Rio ALow, Minas Gerais, Brazil 19°51'03.471"S 43°24'48.183"W(SAD69)	Owned and operated	Construction	Construction	Construction	Single Step	Construction	0.00	16.00	Construction	Construction	Construction	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	Construction	Both	Decharacterized	Yes. Yes.	Yes	
Vargem Grande	Abóboras, Nova Lima, Minas Gerais, Brazil -43.867009 : -20.181878(SIRGAS 2000)	Owned and operated	Inactive/Care and Maintenance	2001	Yes	Upstream	35.00	9.50	12.41	mar/20	No	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	Yes	Both	Yes - 2016; 2018; 2020	Yes. No.	Yes	
VI	Córrego do Feijão, Brumadinho, Minas Gerais, Brazil -44.119671 : -20.104298(SIRGAS 2000)	Owned and operated	Inactive/Care and Maintenance	1998	Yes	Single Step	40.00	0.50	0.50	mar/20	No	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	Yes	Both	Yes - 2016; 2018; 2020	Yes. Yes.	Yes	
ED Monjolo	Água Limpa, Rio Piracicaba, Minas Gerais, Brazil -43.196194 : -19.929942(SIRGAS 2000)	Owned and operated	Inactive/Care and Maintenance	1997	Yes	Upstream	145.00	19.00		mar/20	No	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes - 2020	Yes. Yes.	Yes	Drained stack that according to Resolution 13 must be registered with the ANM.
ED Vale das Cobras	Água Limpa, Rio Piracicaba, Minas Gerais, Brazil -43.196194 : -19.929942(SIRGAS 2000)	Owned and operated	Active	2007	Yes	Upstream	105.00	20.17		mar/20	No	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	No	Yes. Yes.	Yes	Drained stack that according to Resolution 13 must be registered with the ANM.
ED Xingu	Alegria, Mariana, Minas Gerais, Brazil -43.487317 : -20.176068(SIRGAS 2000)	Owned and operated	Inactive/Care and Maintenance	1988	Yes	Upstream	70.00	6.12		mar/20	No	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	Yes	Both	No	Yes. No.	Yes	Drained stack that according to Resolution 13 must be registered with the ANM. 15 - Negative DCE in Mar/20.
Área IX	Fábrica, Ouro Preto, Minas Gerais, Brazil -20°24'44.114" 43°52'42.867"	Owned and operated	Inactive/Care and Maintenance	N/A	No	Unknown	20,00	0,42		mar/20	No	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	Yes	Yes	No	No to both	Yes	
Barragem de Rejeitos do Sossego	Sossego, Canaã dos Carajás, Pará, Brazil 6°26'02.3"S 50°04'40.0"W	Owned and operated	Active	2002	Yes	Centerline	42,00	110,00	154	mar/20	Yes	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes, 2018	Yes. Yes.	Yes	-
Pondes de Rejeitos	Igarapé Bahia, Parauapebas, Pará, Brazil 6°01'44.3"S 50°34'48.3"W	Owned and operated	Inactive/Care and Maintenance	1989	Yes	Upstream	25,00	12,00	12	mar/20	Yes	Medium	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	Yes	Both	Yes, 2018	Yes. Yes.	Yes	15. This facility has been inactive since 2002. This facility failed to meet appropriate Brazilian Dam Safety Standards following the change in legislation in June 2017 due to not having a spillway. We are in the process of preparing for closure of this facility in accordance with relevant legislation that will rectify this deficiency.
Barragem de Rejeito do Mirim	Salobo, Marabá, Pará, Brazil 5°35'32.5"S 50°15'05.0"W	Owned and operated	Active	2012	Yes	Downstream	63,00	95,00	218	mar/20	Yes	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes, 2018	Yes. Yes.	Yes	-
KO2 Berm	Noumea, New Caledonia 22°18'30.7"S 166°55'06.3"E	Owned and operated	Active	2008	Yes	Downstream	65,00	22,00	40	nov/19	Yes	Class A	New Caledonia Decree #2015-526	Yes	Both	Yes, 2019	Yes. Yes.	Yes	15. Recently completed stability analyses indicate that there is a loading condition (long-term undrained) for which the Factor of Safety for the dam does not meet ANCOLD standards. Although the dam continues to perform well, Vale is currently evaluating alternatives.

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Voisey's Bay TSF	Voisey's Bay, Labrador, Canada 56°19'22.8"N 61°59'10.8"W	Owned and operated	Active	2005	Yes	Single step	11,00	20,10	28	set/19	Yes	Very high	Canadian Dam Association	No	Both	No	Yes. Yes.	Yes	1. This TSF is comprised of 2 dams. 17. Based on an assessment, no detailed inundation study was required at this time.
Long Harbour Residue Storage Facility	Long Harbour, Newfoundland, Canada 47°24'47.7"N 53°48'44.1"W	Owned and operated	Active	2013	Yes	Single step	10,00	0,93	2,47	set/19	Yes	Extreme	Canadian Dam Association	No	Both	Yes, 2008	Yes. Yes.	Yes	1. This TSF is comprised of 3 dams
FETA Dam	Sudbury, Ontario, Canada 46°30'57.1"N 81°01'26.2"W	Owned and operated	Inactive/Care and Maintenance	1968	Yes	Single Step	12,00	5,10	5,1	abr/19	Yes	Low	Canadian Dam Association	No	Both	Yes, 2019	Yes. Yes.	Yes	-
Levack TSF	Onaping, Ontario, Canada 46°39'52.0"N 81°22'40.3"W	Owned and operated	Inactive/Care and Maintenance	1957	Yes	Downstream	16,00	8,60	8,6	abr/19	Yes	Significant	Canadian Dam Association	No	Both	Yes, 2011	Yes. Yes.	Yes	1. This TSF is comprised of 5 dams
Shebandowan TSF	Shebandowan, Ontario, Canada 48°34'46.1"N 80°12'58.7"W	Owned and operated	Inactive/Care and Maintenance	1971	Yes	Downstream	10,00	4,30	4,3	abr/19	Yes	Very High	Canadian Dam Association	No	Both	Yes, 2019	Yes. Yes.	Yes	1. This TSF is comprised of 6 dams
Thompson TSF Dam A	Thompson, Manitoba, Canada 55°42'14.5"N 97°48'18.2"W	Owned and operated	Active	1971	Yes	Downstream	26,00	42,00	47	jul/19	Yes	Significant	Canadian Dam Association	No	Both	Yes, 2017	Yes. Yes.	Yes	1. This TSF is a single dam 13. Hazard classification is based on low economic losses affecting limited infrastructure and not the Loss of Life or Environmental and Cultural Values 15. Stability analysis has been completed and slag berm on downstream toe area has been constructed.
Thompson TSF Other Dams	Thompson, Manitoba, Canada 55°42'14.5"N 97°48'18.2"W	Owned and operated	Active	1971	Yes	Downstream	26,00	42,00	47	jul/19	Yes	Very High	Canadian Dam Association	No	Both	Yes, 2017	Yes. Yes.	Yes	1. This TSF is comprised of 5 dams 13. Hazard classification is based on Environment & Cultural Values and Infrastrucutre & Economics; not loss of life classification.
Upper Pond Tailings Facility	Copper Cliff, Ontario, Canada 46°29'10.7"N 81°02'02.0"W	Owned and operated	Inactive/Care and Maintenance	1929	Yes	Upstream	19,00	3,90	3,9	out/19	Yes	Extreme	Canadian Dam Association	No	Both	Yes, 2017	Yes. Yes.	Yes	1. This TSF is comprised of 2 dams
A Area Tailings	Copper Cliff, Ontario, Canada 46°28'17.1"N 81°08'26.1"W	Owned and operated	Inactive/Care and Maintenance	1936	Yes	Upstream	25,00	8,40	8,4	out/19	Yes	Extreme	Canadian Dam Association	No	Both	No	Yes. Yes.	Yes	17. With the oversight of the TRB (Tailings Review Board), a formal specific analysis has not been undertaken, as the risk and consequences for A Area are included within the assessment of the M Area Inundation Assessment
M Area Tailings	Copper Cliff, Ontario, Canada 46°28'17.1"N 81°08'26.1"W	Owned and operated	Inactive/Care and Maintenance	1945	Yes	Upstream	37,00	58,60	58,6	out/19	Yes	Extreme	Canadian Dam Association	Yes	Both	Yes, 2003	Yes. Yes.	Yes	1. This TSF is comprised of 2 dams 15. Following internal and external analysis plus the oversight of the TRB (Tailings Review Board), we are in the process of buttressing and stabilizing M Area dams due to known layers of fine tailings in the dam shell.
P Area Tailings	Copper Cliff, Ontario, Canada 46°28'17.1"N 81°08'26.1"W	Owned and operated	Inactive/Care and Maintenance	1960	Yes	Upstream	45,00	59,70	59,7	out/19	Yes	Extreme	Canadian Dam Association	Yes	Both	Yes, 2006	Yes. Yes.	Yes	1. This TSF is comprised of 6 dams 15. Following internal and external analysis plus the oversight of the TRB (Tailings Review Board), we are in the process of buttressing and stabilizing P Area dams due to known layers of fine tailings in the dam shell.
R1 Tailings	Copper Cliff, Ontario, Canada 46°28'17.1"N 81°08'26.1"W	Owned and operated	Active	1985	Yes	Compacted Outer Shell	14,00	2,90	4	out/19	Yes	Extreme	Canadian Dam Association	No	Both	Yes, 2018	Yes. Yes.	Yes	1. This TSF is comprised of 1 dam. 7. The R Area Dams have been constructed using the compacted outer shell (COS) method. They have been built in the upstream direction but not using the "upstream method". Unlike the traditional upstream method of construction, the COS method dams have an extensive underdrainage system to drain the shell, the deposited tailings is coarse in nature, and the dam shell receives extensive compactive effort.
R2 Tailings	Copper Cliff, Ontario, Canada 46°28'17.1"N 81°08'26.1"W	Owned and operated	Active	1985	Yes	Compacted Outer Shell	13,00	18,00	18	out/19	Yes	Extreme	Canadian Dam Association	No	Both	Yes, 2018	Yes. Yes.	Yes	1. This TSF is comprised of 6 dams 7. The R Area Dams have been constructed using the compacted outer shell (COS) method. They have been built in the upstream direction but not using the "upstream method". Unlike the traditional upstream method of construction, the COS method dams have an extensive underdrainage system to drain the shell, the deposited tailings is coarse in nature, and the dam shell receives extensive compactive effort.

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 (Meter)	9. Current Tailings Storage Impoundment Volume (Mm3)	10. Planned Tailings Storage Impoundment Volume in 5 years time. (Mm3)	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 to 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.
R3 Tailings	Copper Cliff, Ontario, Canada 46°28'17.1"N 81°08'26.1"W	Owned and operated	Active	1985	Yes	Compacted Outer Shell	27,00	39,00	42	out/19	Yes	Extreme	Canadian Dam Association	No	Both	Yes, 2018	Yes. Yes.	Yes	1. This TSF is comprised of 11 dams 7. The R Area Dams have been constructed using the compacted outer shell (COS) method. They have been built in the upstream direction but not using the "upstream method". Unlike the traditional upstream method of construction, the COS method dams have an extensive underdrainage system to drain the shell, the deposited tailings is coarse in nature, and the dam shell receives extensive compactive effort.
R4 Tailings	Copper Cliff, Ontario, Canada 46°28'17.1"N 81°08'26.1"W	Owned and operated	Active	1990	Yes	Compacted Outer Shell	22,00	59,00	63	out/19	Yes	Extreme	Canadian Dam Association	No	Both	Yes, 2018	Yes. Yes.	Yes	1. This TSF is comprised of 13 dams 7. The R Area Dams have been constructed using the compacted outer shell (COS) method. They have been built in the upstream direction but not using the "upstream method". Unlike the traditional upstream method of construction, the COS method dams have an extensive underdrainage system to drain the shell, the deposited tailings is coarse in nature, and the dam shell receives extensive compactive effort.
TSF-01	Tete, Mozambique 16o 10' 00" - 33o 46' 00"	Owned and operated	Active	2011	Operating	Downstream	29,00	21,00	23	mar/19	Yes	Low	Mozambican Law - Decree 50 - 2017	No	Yes. Yes	Yes, 2017	Yes. No.	Yes	11. A expectativa da Companhia é que a próxima avaliação ocorra em agosto de 2020, após ter sido adiada devido a pandemia do Covid-19; 16. A estrutura está em fase de implementação do EoR (Engineer of Record) contratado em 2020, para suporte nas questões de segurança da barragem; 18. O plano de fechamento para a TSF 01 está em fase conceitual. Há um plano para reprocessar os rejeitos depositados na barragem, que direciona o plano de fechamento no futuro.
MRN - SP-01	Oriximiná, Pará, Brazil 1° 40.993'S, 56° 25.079'W	Non-operated Joint Venture	Inactive	1989	See notes on column 20	Single Step	15.0 (See notes on column 20)	2,36	2,36	mar/20	Yes	Medium - Independent Review Classification (Pending ANM approval)	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes. June 2018	See notes on column 20	Yes	4. The facility is designated as "inactive" since it is not currently receiving any tailings discharge. 6 This structure is being utilized for rehabilitation tests, however closing/decommissioning plan is under way. 7.This classification is according to the agency ANM.. 8. The height specified in this column refers to the downstream slope of the structure, except for TP-03, in which case the height of the upstream slope was specified. 12.The available documents are enough to ensure the safety of the structure, including an independent stability report and As Is documentation; 13.The classification was performed by independent auditing (September 19) and needs to be validated by the mining regulatory agency. 17.There is a Dam Break study. 18. Closure plan is under development, where long term monitoring will be specified. 19.The structures are being evaluated for a PMP rainfall. The project until then considered the service during the operation to a rainfall of 10,000 years of recurrence.

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 (Meter)	9. Current Tailings Storage Impoundment Volume (Mm3)	10. Planned Tailings Storage Impoundment Volume in 5 years time. (Mm3)	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 to 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.
MRN - SP-2/3	Oriximiná, Pará, Brazil 1° 41.067'S, 56° 24.228'W	Non-operated Joint Venture	Inactive	1989	See notes on column 20	Centerline (See notes on column 20)	19.0 (See notes on column 20)	6,36	6,36	mar/20	Yes	Medium - Independent Review Classification (Pending ANM approval)	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes. June 2018	See notes on column 20	Yes	4. The facility is designated as "inactive" since it is not currently receiving any tailings discharge. 6. This structure is being utilized for rehabilitation tests, however closing/decommissioning plan is under way. 7. This is the current classification in accordance with ANM. A reevaluation of the classification is underway by ANM and AECOM. 8. The height specified in this column refers to the downstream slope of the structure, except for TP-03, in which case the height of the upstream slope was specified. 12. The available documents are enough to ensure the safety of the structure, including an independent stability report and As Is documentation; 13. The classification was performed by independent auditing (September 19) and needs to be validated by the mining regulatory agency. 17. There is a Dam Break study. 18. Closure plan is under development, where long term monitoring will be specified. 19. The structures are being evaluated for a PMP rainfall. The project until then considered the service during the operation to a rainfall of 10,000 years of recurrence.
MRN - SP-4N	Oriximiná, Pará, Brazil 1° 41.109'S, 56° 25.610'W	Non-operated Joint Venture	Active	1994	See notes on column 20	Centerline (See notes on column 20)	19.5 (See notes on column 20)	6,96	6,96	mar/20	Yes	Medium - Independent Review Classification (Pending ANM approval)	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes. June 2018	See notes on column 20	Yes	4. The facility is classified as "active" because it corresponds to the registration at SIGBM-ANM, however it is not currently in operation. 6 This structure is being utilized for rehabilitation tests, however closing/decommissioning plan is under way. 7. This is the current classification in accordance with ANM. A reevaluation of the classification is underway by ANM and AECOM. 8. The height specified in this column refers to the downstream slope of the structure, except for TP-03, in which case the height of the upstream slope was specified. 12. The available documents are enough to ensure the safety of the structure, including an independent stability report and As Is documentation; 13. The classification was performed by independent auditing (September 19) and needs to be validated by the mining regulatory agency. 17. There is a Dam Break study. 18. Closure plan is under development, where long term monitoring will be specified. 19. The structures are being evaluated for a PMP rainfall. The project until then considered the service during the operation to a rainfall of 10,000 years of recurrence.

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 (Meter)	9. Current Tailings Storage Impoundment Volume (Mm3)	10. Planned Tailings Storage Impoundment Volume in 5 years time. (Mm3)	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 to 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.
MRN - SP-4S	Oriximiná, Pará, Brazil 1° 41.489'S, 56° 25.646'W	Non-operated Joint Venture	Active	1994	See notes on column 20	Centerline (See notes on column 20)	16.4 (See notes on column 20)	5,57	5,57	mar/20	Yes	Medium	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes. June 2018	See notes on column 20	Yes	4. The facility is classified as "active" because it corresponds to the registration at SIGBM-ANM, however it is not currently in operation. 6 This structure closing/decommissioning plan is under way. 7. This is the current classification in accordance with ANM. A reevaluation of the classification is underway by ANM and AECOM. 8. The height specified in this column refers to the downstream slope of the structure, except for TP-03, in which case the height of the upstream slope was specified. 12. The available documents are sufficient to ensure the safety of the structure, including an independent stability report and As Is documentation; 17. There is a Dam Break study. 18.Closure plan is under development, where long term monitoring will be specified. 19.The structures are being evaluated for a PMP rainfall . The project until then considered the service during the operation to a rainfall of 10,000 years of recurrence.
MRN - SP-5L	Oriximiná, Pará, Brazil 1° 41.009'S, 56° 26.252'W	Non-operated Joint Venture	Active	1997	See notes on column 20	Centerline (See notes on column 20)	20.3 (See notes on column 20)	6,43	6,8	mar/20	Yes	Medium - Independent Review Classification (Pending ANM approval)	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes. June 2018	See notes on column 20	Yes	4. The facility is classified as "active" because it corresponds to the registration at SIGBM-ANM, however it is not currently in operation. 6 This structure closing/decommissioning plan is under way. 7. This is the current classification in accordance with ANM. A reevaluation of the classification is underway by ANM and AECOM. 8. The height specified in this column refers to the downstream slope of the structure, except for TP-03, in which case the height of the upstream slope was specified. 12. The available documents are sufficient to ensure the safety of the structure, including an independent stability report and As Is documentation; 13. The classification was performed by independent auditing (September, 19) and needs to be validated by the mining regulatory agency. 17. There is a Dam Break study. 18 .Closure plan is under development, where long term monitoring will be specified. 19.The structures are being evaluated for a PMP rainfall . The project until then considered the service during the operation to a rainfall of 10,000 years of recurrence.

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 (Meter)	9. Current Tailings Storage Impoundment Volume (Mm3)	10. Planned Tailings Storage Impoundment Volume in 5 years time. (Mm3)	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 to 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.
MRN - SP-50	Oriximiná, Pará, Brazil 1° 41.079'S, 56° 26.693'W	Non-operated Joint Venture	Active	1997	See notes on column 20	Centerline (See notes on column 20)	22.4 (See notes on column 20)	8,36	8,36	mar/20	Yes	Medium - Independent Review Classification (Pending ANM approval)	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes. June 2018	See notes on column 20	Yes	4. The facility is classified as "active" because it corresponds to the registration at SIGBM-ANM, however it is not currently in operation. 6 This structure closing/decommissioning plan is under way. 7. This is the current classification in accordance with ANM. A reevaluation of the classification is underway by ANM and AECOM. 8. The height specified in this column refers to the downstream slope of the structure, except for TP-03, in which case the height of the upstream slope was specified. 12. The available documents are sufficient to ensure the safety of the structure, including an independent stability report and As Is documentation; 13. The classification was performed by independent auditing (September, 19) and needs to be validated by the mining regulatory agency. 17. There is a Dam Break study. 18 . Closure plan is under development, where long term monitoring will be specified. 19.The structures are being evaluated for a PMP rainfall . The project until then considered the service during the operation to a rainfall of 10,000 years of recurrence.
MRN - SP-06	Oriximiná, Pará, Brazil 1° 40.648'S, 56° 25.491'W	Non-operated Joint Venture	Active	2005	See notes on column 20	Centerline - See notes on column 20	16.4 (See notes on column 20)	0,36	0,36	mar/20	Yes	Medium - Independent Review Classification (Pending ANM approval)	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes. June 2018	See notes on column 20	Yes	4. The facility is classified as "active" because it corresponds to the registration at SIGBM-ANM, however it is not currently in operation. 6 This structure closing/decommissioning plan is under way. 7. This is the current classification in accordance with ANM. A reevaluation of the classification is underway by ANM and AECOM. 8. The height specified in this column refers to the downstream slope of the structure, except for TP-03, in which case the height of the upstream slope was specified. 12. The available documents are sufficient to ensure the safety of the structure, including an independent stability report and As Is documentation; 13. The classification was performed by independent auditing (September, 19) and needs to be validated by the mining regulatory agency. 17. There is a Dam Break study. 18. Closure plan is under development, where long term monitoring will be specified. 19.The structures are being evaluated for a PMP rainfall . The project until then considered the service during the operation to a rainfall of 10,000 years of recurrence.

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 (Meter)	9. Current Tailings Storage Impoundment Volume (Mm3)	10. Planned Tailings Storage Impoundment Volume in 5 years time. (Mm3)	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 to 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.
MRN - SP-7A	Oriximiná, Pará, Brazil 1° 40.329'S, 56° 26.059'W	Non-operated Joint Venture	Active	2000	See notes on column 20	Centerline (See notes on column 20)	15.9 (See notes on column 20)	3,76	3,76	mar/20	Yes	Medium	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes. June 2018	See notes on column 20	Yes	4. The facility is classified as "active" because it corresponds to the registration at SIGBM-ANM, however it is not currently in operation. 6 This structure closing/decommissioning plan is under way. 7. This is the current classification in accordance with ANM. A reevaluation of the classification is underway by ANM and AECOM. 8. The height specified in this column refers to the downstream slope of the structure, except for TP-03, in which case the height of the upstream slope was specified. 12. The available documents are sufficient to ensure the safety of the structure, including an independent stability report and As Is documentation; 17. There is a Dam Break study. 18. Closure plan is under development, where long term monitoring will be specified. 19. The structures are being evaluated for a PMP rainfall . The project until then considered the service during the operation to a rainfall of 10,000 years of recurrence.
MRN - SP-7B	Oriximiná, Pará, Brazil 1° 40.205'S, 56° 26.406'W	Non-operated Joint Venture	Active	2001	See notes on column 20	Centerline (See notes on column 20)	21.5 (See notes on column 20)	6,14	6,14	mar/20	Yes	Medium	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes. June 2018	See notes on column 20	Yes	4. The facility is classified as "active" because it corresponds to the registration at SIGBM-ANM, however it is not currently in operation. 6 This structure closing/decommissioning plan is under way. 7. This is the current classification in accordance with ANM. A reevaluation of the classification is underway by ANM and AECOM. 8. The height specified in this column refers to the downstream slope of the structure, except for TP-03, in which case the height of the upstream slope was specified. 12. The available documents are sufficient to ensure the safety of the structure, including an independent stability report and As Is documentation; 17. There is a Dam Break study. 18. Closure plan is under development, where long term monitoring will be specified. 19. The structures are being evaluated for a PMP rainfall . The project until then considered the service during the operation to a rainfall of 10,000 years of recurrence.
MRN - SP-7C	Oriximiná, Pará, Brazil 1° 40.191'S, 56° 26.704'W	Non-operated Joint Venture	Active	2002	See notes on column 20	Centerline (See notes on column 20)	28.2 (See notes on column 20)	8,29	8,29	mar/20	Yes	Medium	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes. June 2018	See notes on column 20	Yes	4. The facility is classified as "active" because it corresponds to the registration at SIGBM-ANM, however it is not currently in operation. 6 This structure closing/decommissioning plan is under way. 7. This is the current classification in accordance with ANM. A reevaluation of the classification is underway by ANM and AECOM. 8. The height specified in this column refers to the downstream slope of the structure, except for TP-03, in which case the height of the upstream slope was specified. 12. The available documents are sufficient to ensure the safety of the structure, including an independent stability report and As Is documentation; 17. There is a Dam Break study. 18. Closure plan is under development, where long term monitoring will be specified. 19. The structures are being evaluated for a PMP rainfall . The project until then considered the service during the operation to a rainfall of 10,000 years of recurrence.

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 (Meter)	9. Current Tailings Storage Impoundment Volume (Mm3)	10. Planned Tailings Storage Impoundment Volume in 5 years time. (Mm3)	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 to 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.
MRN - SP-08	Oriximiná, Pará, Brazil 1° 40.388'S, 56° 27.154'W	Non-operated Joint Venture	Active	2005	Currently Operated	Single Step	19.7 (See notes on column 20)	13,65	14,64	mar/20	Yes	Medium - Independent Review Classification (Pending ANM approval)	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes. June 2018	No	Yes	7. This classification is according to the agency ANM. 8. The height specified in this column refers to the downstream slope of the structure, except for TP-03, in which case the height of the upstream slope was specified. 12. The available documents are sufficient to ensure the safety of the structure, including an independent stability report and As Is documentation; 17. There is a Dam Break study. 19. The structures are being evaluated for a PMP rainfall. The project until then considered the service during the operation to a rainfall of 10,000 years of recurrence.
MRN - SP-09	Oriximiná, Pará, Brazil 1° 40.475'S, 56° 27.659'W	Non-operated Joint Venture	Active	2006	Currently Operated	Single Step	23.7 (See notes on column 20)	9,27	11,38	mar/20	Yes	Medium - Independent Review Classification (Pending ANM approval)	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes. June 2018	No	Yes	7. This classification is according to the agency ANM.. 8. The height specified in this column refers to the downstream slope of the structure, except for TP-03, in which case the height of the upstream slope was specified. 12. The available documents are sufficient to ensure the safety of the structure, including an independent stability report and As Is documentation; 17. There is a Dam Break study. 19. The structures are being evaluated for a PMP rainfall. The project until then considered the service during the operation to a rainfall of 10,000 years of recurrence.
MRN - SP-9A	Oriximiná, Pará, Brazil 1° 40.095'S, 56° 27.725'W	Non-operated Joint Venture	Active	2007	See notes on column 20	Single Step	19.2 (See notes on column 20)	2,17	2,17	mar/20	Yes	Medium	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes. June 2018	See notes on column 20	Yes	6 This structure closing/decommissioning plan is under way. 7. This classification is according to the agency ANM.. 8. The height specified in this column refers to the downstream slope of the structure, except for TP-03, in which case the height of the upstream slope was specified. 12. The available documents are sufficient to ensure the safety of the structure, including an independent stability report and As Is documentation; 17. There is a Dam Break study. 18. Closure plan is under development, where long term monitoring will be specified. 19. The structures are being evaluated for a PMP rainfall. The project until then considered the service during the operation to a rainfall of 10,000 years of recurrence.
MRN - SP-10	Oriximiná, Pará, Brazil 1° 40.995'S, 56° 27.179'W	Non-operated Joint Venture	Active	2009	Currently Operated	Single Step	15.8 (See notes on column 20)	7,64	8,89	mar/20	Yes	Medium - Independent Review Classification (Pending ANM approval)	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes. June 2018	No	Yes	7. This classification is according to the agency ANM. 8. The height specified in this column refers to the downstream slope of the structure, except for TP-03, in which case the height of the upstream slope was specified. 12. The available documents are sufficient to ensure the safety of the structure, including an independent stability report and As Is documentation; 17. There is a Dam Break study. 19. The structures are being evaluated for a PMP rainfall. The project until then considered the service during the operation to a rainfall of 10,000 years of recurrence.
MRN - SP-11	Oriximiná, Pará, Brazil 1° 40.988'S, 56° 27.763'W	Non-operated Joint Venture	Active	2010	Currently Operated	Single Step	16.5 (See notes on column 20)	6,97	7,936748	mar/20	Yes	Medium - Independent Review Classification (Pending ANM approval)	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes. June 2018	No	Yes	7. This classification is according to the agency ANM. 8. The height specified in this column refers to the downstream slope of the structure, except for TP-03, in which case the height of the upstream slope was specified. 12. The available documents are sufficient to ensure the safety of the structure, including an independent stability report and As Is documentation; 17. There is a Dam Break study. 19. The structures are being evaluated for a PMP rainfall. The project until then considered the service during the operation to a rainfall of 10,000 years of recurrence.

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 (Meter)	9. Current Tailings Storage Impoundment Volume (Mm3)	10. Planned Tailings Storage Impoundment Volume in 5 years time. (Mm3)	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 to 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.
MRN - SP-12	Oriximiná, Pará, Brazil 1° 41.189'S, 56° 28.144'W	Non-operated Joint Venture	Active	2010	Currently Operated	Single Step	16.5 (See notes on column 20)	5,17	5,72	mar/20	Yes	Medium	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes. June 2018	No	Yes	7. This classification is according to the agency ANM. 8. The height specified in this column refers to the downstream slope of the structure, except for TP-03, in which case the height of the upstream slope was specified. 12. The available documents are sufficient to ensure the safety of the structure, including an independent stability report and As Is documentation; 17. There is a Dam Break study. 19. The structures are being evaluated for a PMP rainfall. The project until then considered the service during the operation to a rainfall of 10,000 years of recurrence.
MRN - SP-13	Oriximiná, Pará, Brazil 1° 41.643'S, 56° 28.070'W	Non-operated Joint Venture	Active	2011	Currently Operated	Single Step	15.8 (See notes on column 20)	2,46	3,07	mar/20	Yes	Medium	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes. June 2018	No	Yes	7. This classification is according to the agency ANM. 8. The height specified in this column refers to the downstream slope of the structure, except for TP-03, in which case the height of the upstream slope was specified. 12. The available documents are sufficient to ensure the safety of the structure, including an independent stability report and As Is documentation; 17. There is a Dam Break study. 19. The structures are being evaluated for a PMP rainfall. The project until then considered the service during the operation to a rainfall of 10,000 years of recurrence.
MRN - SP-14	Oriximiná, Pará, Brazil 1° 41.951'S, 56° 28.211'W	Non-operated Joint Venture	Active	2012	Currently Operated	Single Step	13.3 (See notes on column 20)	3,18	4,02	mar/20	Yes	Medium	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes. June 2018	No	Yes	7. This classification is according to the agency ANM. 8. The height specified in this column refers to the downstream slope of the structure, except for TP-03, in which case the height of the upstream slope was specified. 12. The available documents are sufficient to ensure the safety of the structure, including an independent stability report and As Is documentation; 17. There is a Dam Break study. 19. The structures are being evaluated for a PMP rainfall. The project until then considered the service during the operation to a rainfall of 10,000 years of recurrence.
MRN - SP-15	Oriximiná, Pará, Brazil 1° 41.950'S, 56° 28.502'W	Non-operated Joint Venture	Active	2014	Currently Operated	Single Step	13.1 (See notes on column 20)	4,53	5,73	mar/20	Yes	Medium	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes. June 2018	No	Yes	7. This classification is according to the agency ANM. 8. The height specified in this column refers to the downstream slope of the structure, except for TP-03, in which case the height of the upstream slope was specified. 12. The available documents are sufficient to ensure the safety of the structure, including an independent stability report and As Is documentation; 17. There is a Dam Break study. 19. The structures are being evaluated for a PMP rainfall. The project until then considered the service during the operation to a rainfall of 10,000 years of recurrence.
MRN - SP-16	Oriximiná, Pará, Brazil 1° 41.241'S, 56° 28.777'W	Non-operated Joint Venture	Active	2016	Currently Operated	Single Step	18.4 (See notes on column 20)	4,84	8,241989226	mar/20	Yes	Medium - Independent Review Classification (Pending ANM approval)	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes. June 2018	No	Yes	7. This classification is according to the agency ANM. 8. The height specified in this column refers to the downstream slope of the structure, except for TP-03, in which case the height of the upstream slope was specified. 12. The available documents are sufficient to ensure the safety of the structure, including an independent stability report and As Is documentation; 17. There is a Dam Break study. 19. The structures are being evaluated for a PMP rainfall. The project until then considered the service during the operation to a rainfall of 10,000 years of recurrence.
MRN - SP-19	Oriximiná, Pará, Brazil 1° 40.907'S, 56° 28.126'W	Non-operated Joint Venture	Active	2019	Currently Operated	Single Step	20.0 (See notes on column 20)	1,63	1,88	mar/20	Yes	Medium - Independent Review Classification (Pending ANM approval)	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes. August 2019	No	Yes	7. This classification is according to the agency ANM. 8. The height specified in this column refers to the downstream slope of the structure, except for TP-03, in which case the height of the upstream slope was specified. 12. The available documents are sufficient to ensure the safety of the structure, including an independent stability report and As Is documentation; 17. There is a Dam Break study. 19. The structures are being evaluated for a PMP rainfall. The project until then considered the service during the operation to a rainfall of 10,000 years of recurrence.

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 (Meter)	9. Current Tailings Storage Impoundment Volume (Mm3)	10. Planned Tailings Storage Impoundment Volume in 5 years time. (Mm3)	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 to 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.
MRN - TP-01	Oriximiná, Pará, Brazil 1° 41.005'S, 56° 24.659'W	Non-operated Joint Venture	Inactive	1989	See notes on column 20	Single Step	11.3 (See notes on column 20)	3,48	3,48	mar/20	Yes	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	Yes	Both	Yes. April 2017 (risk analysis) / June 2018 (dam break study)	See notes on column 20	Yes	4. The facility is designated as "inactive" since it is not currently receiving any tailings. 6 This structure closing/decommissioning plan is under way. 7. This classification is according to the agency ANM. 8. The height specified in this column refers to the downstream slope of the structure, except for TP-03, in which case the height of the upstream slope was specified. 12. The available documents are sufficient to ensure the safety of the structure, including an independent stability report and As Is documentation; 15. A prior study raised a concern regarding a specific section within this structure - a spillway was added to address this concern, as recommended in the study. The concern no longer exists and the structure has never failed to obtain a declaration of stability as required under applicable regulations. 17. There is a Dam Break study. 18 . Closure plan is under development, where long term monitoring will be specified. 19.The structures are being evaluated for a PMP rainfall . The project until then considered the service during the operation to a rainfall of 10,000 years of recurrence.
MRN - TP-02	Oriximiná, Pará, Brazil 1° 40.588'S, 56° 26.272'W	Non-operated Joint Venture	Active	2002	Currently Operated	Single Step	15.4 (See notes on column 20)	5.47 (See notes on column 20)	5.47 (See notes on column 20)	mar/20	Yes	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes. April 2017 (risk analysis) / June 2018	No	Yes	7. This classification is according to the agency ANM. 8. The height specified in this column refers to the downstream slope of the structure, except for TP-03, in which case the height of the upstream slope was specified. 10. The volume presented for TP-02 is the current volume. It is important to note that TP-02 is a thickening pond and that it's volume will vary throughout the year based on the elevation of the of water on its surface. 12. The available documents are sufficient to ensure the safety of the structure, including an independent stability report and As Is documentation; 17. There is a Dam Break study. 19.The structures are being evaluated for a PMP rainfall . The project until then considered the service during the operation to a rainfall of 10,000 years of recurrence.
MRN - TP-03	Oriximiná, Pará, Brazil 1° 41.427'S, 56° 28.518'W	Non-operated Joint Venture	Active	2017	Currently Operated	Downstream	18.0 (See notes on column 20)	7.2 (See notes on column 20)	7.2 (See notes on column 20)	mar/20	Yes	Medium	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil	No	Both	Yes. June 2018	No	Yes	1. It's a water dam. 7. This classification is according to the agency ANM. 8. The height specified in this column refers to the downstream slope of the structure, except for TP-03, in which case the height of the upstream slope was specified. 9. The volume specified refers to the total volume of the reservoir. 10. The volume specified refers to the total volume of the reservoir. 12. The available documents are sufficient to ensure the safety of the structure, including an independent stability report and As Is documentation; 17. There is a Dam Break study. 19.The structures are being evaluated for a PMP rainfall . The project until then considered the service during the operation to a rainfall of 10,000 years of recurrence.
Germano Main Dam	Mariana, Minas Gerais, Brazil -20.21811, -43.465195	Non-operated Joint Venture	Inactive	1977	No	Upstream	165,00	129,60	129,6	mar/20	Operator: Yes Vale: No	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil Lei Estadual 23.291 - MG	No	Operator: Yes to Both Vale: No to both	Yes, issued in February 2020.	Yes. Yes	Operator: Yes Vale: No	6. The dam is inactive, however it is in compliance with the currently approved design. 15. The external advisors and the ITRB (Independent Technical Review Board) have consistently confirmed the stability of the dams in Operator's tailing system. After the Mariana incident emergency works were performed in order to ensure the stability required and be in compliance with the applicable regulation. 18. Operator is developing a closure plan and long-term monitoring will be defined as part of the decommissioning process.

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 (Meter)	9. Current Tailings Storage Impoundment Volume (Mm3)	10. Planned Tailings Storage Impoundment Volume in 5 years time. (Mm3)	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 to 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.
Germano Pit Dam	Mariana, Minas Gerais, Brazil -20.193637, -43.491281	Non-operated Joint Venture	Inactive	2001	No	Upstream	60,50	16,60	16,6	mar/20	Operator: Yes Vale: No	High	Ordinance 70.389/17 - ANM (Mining National Agency), Brazil Lei Estadual 23.291	No	Operator: Yes to Both Vale: No to both	Yes, in 2018, and is under review to be issued in 2020	Yes. Yes	Operator: Yes Vale: No	6. The dam is inactive, however it is in compliance with the currently approved design. 18. Operator is developing a closure plan and long-term monitoring will be defined as part of the decommissioning process.