Evolution MINING

Church of England Tailings Dam Management Disclosure September 2021

Evolution Mining tailing facilities

Church of England Tailings Dam Management Disclosure - September 2021
This disclosure has been certified by Evolution Mining's Executive Chairman, in line with this request

Operation	Country	State/Province	1. Tailings Dam Name/identifier	2. Location	3. Owner	4. Status	5. Year construction was started	6. Is the dam currently operated as per approved design	7. Raising method (upstream, downstream, centreline, other)	8. Current height (metres)	9. Current volume of tailings facility(million m3)	10. Planned final volume of tailings facility (million m3)	11. Date of last external inspection including outcome	12. Do you have full and complete relevant engineering records including design, construction, operation, maintenance and/or, closure?	13. What is the risk rating for the TMF?	14. What standards/guidelings were applied to the dam design and construction?	15. Has the facility, at any point in its history, failed to be confirmed or certified as strable, or eexperienced notable stabiity concerns, as identied 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. Identification of habitation(s)/settlement(s) and/or flora/fauna critical habitat(s) or high biodiversity area(s) located downstream of the facility,with indication of areas or number of populations at risk,and the mitigative measures that have been undertaken or remain to be implemented.	18. a) Is there 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 informaiton and supporting documentation
Cowal	Australia	New South Wales	NTSF	33°38'8.53"S 147°22'0.76"E	100% Evolution owned	Active	2005	Yes	Upstream	27.5	30.6	35.5	Jun-21	Yes	High C	ANCOLD, New South Wales Dam Safety Committee (NSWDSC)	No	Both	Yes - June 2019	a) Yes b) Yes	Yes - Tailings facility design Guidelines include evaluation of extreme weather events	
			STSF	33°38'52.64"S 147°22'9.89"	100% Evolution owned	Active	2006	Yes	Upstream	26.7	29.9	29.9	Jun-21	Yes	High C	ANCOLD, New South Wales Dam Safety Committee (NSWDSC)	No	Both	Yes - June 2019	a) Yes b) Yes	Yes - Tailings facility design Guidelines include evaluation of extreme weather events	
			IWL	33°38'45.77"S 147°22'46.82"E	100% Evolution owned	Active	2019	Yes	Landform	34m maximum height (ranges from 16.5 to 34m)	10.7	96	Jul-21	Yes	High C	ANCOLD, New South Wales Dam Safety Committee (NSWDSC)	No	Both	Yes - January 2020	a) Yes b) Yes	Yes - Tailings facility design Guidelines include evaluation of extreme weather events	
Mungari	Australia	Western Australia	TSF Cell 1	30°45'44.80"S 121°14'21.65"	100% Evolution owned	Active	2014	Yes	Combination of downstream, central and upstream lifts	16	3.7	3.7	Jun-20	Yes	Significant	ANCOLD (2019); and DMIRS (2013) Tailings storage facilities in Western Australia - code of practice	No	Both	Undertaken	a) Yes b) Yes	Yes - Tailings facility design guidelines include evaluation of extreme weather events	13. ANCOLD Ranking
			TSF Cell 2	30°45'44.03"S 121°14'5.11"E	100% Evolution owned	Active	2014	Yes	Combination of downstream, central and upstream lifts	16	3.8	4.6	Jun-20	Yes	Significant	ANCOLD (2019); and DMIRS (2013) Tailings storage facilities in Western Australia - code of practice	No	Both	Undertaken	a) Yes b) Yes	Yes - Tailings facility design guidelines include evaluation of extreme weather events	13. ANCOLD Ranking
			TSF Cell 3	30°45'44.70"S 121°13'43.72"	100% Evolution owned	Active	2021	Yes	Combination of downstream, central and upstream lifts	5	Commissioned June 2021	9	Not yet due	Yes	Significant	ANCOLD (2019); and DMIRS (2013) Tailings storage facilities in Western Australia - code of practice	No	Both	Undertaken	a) Yes b) Yes	Yes - Tailings facility design guidelines include evaluation of extreme weather events	13. ANCOLD Ranking
			TSF1	30°42'23.58"S 121°13'7.15"E	100% Evolution owned	Inactive	Dec-88	Yes	Upstream	18	0.39	0.39	Dec-19	No	Category 1	ANCOLD (2019); and DMIRS (2013) Tailings storage facilities in Western Australia - code of practice	No	Both	No	a) Yes b) Yes	Yes - Tailings facility design guidelines include evaluation of extreme weather events	Q.13 Originally classified as Category 1, Low Hazard facility. Decommissioned in 1997.
			TSF2	30°42'36.31"S 121°13'20.17"	100% Evolution owned	Inactive	Oct-97	Yes	Upstream	17.5	0.21	0.21	Dec-19	No	Category 1	ANCOLD (2019); and DMIRS (2013) Tailings storage facilities in Western Australia - code of practice	No	Both	No	a) Yes b) Yes	Yes - Tailings facility design guidelines include evaluation of extreme weather events	Q.13 Originally classified as Category 1, Low Hazard facility. Decommissioned in 2002.
			TSF3 Cell A	30°42'21.35"S 121°12'49.18"E	100% Evolution owned	Inactive	Apr-02	Yes	Upstream	9	0.15	0.15	Dec-19	No	Category 1	ANCOLD (2019); and DMIRS (2013) Tailings storage facilities in Western Australia - code of practice	No	Both	No	a) Yes b) Yes	Yes - Tailings facility design guidelines include evaluation of extreme weather events	Q.13 Originally classified as Category 1, Significant Hazard facility. Decommissioned in 2003.
			TSF3 Cell B	30°42'35.00"S 121°13'2.36"E	100% Evolution owned	Inactive	May-02	Yes	Upstream	8	0.25	0.25	Dec-19	No	Category 1	ANCOLD (2019); and DMIRS (2013) Tailings storage facilities in Western Australia - code of practice	No	Both	No	a) Yes b) Yes	Yes - Tailings facility design guidelines include evaluation of extreme weather events	Q.13 Originally classified as Category 1, Significant Hazard facility. Decommissioned in 2003.
			TSF3 Cell C	30°42'45.13"S 121°13'8.17"E	100% Evolution owned	Inactive	Nov-02	Yes	Upstream	11	0.30	0.30	Dec-19	No	Category 1	ANCOLD (2019); and DMIRS (2013) Tailings storage facilities in Western Australia - code of practice	No	Both	No	a) Yes b) Yes	Yes - Tailings facility design guidelines include evaluation of extreme weather events	Q.13 Originally classified as Category 1, Significant Hazard facility. Decommissioned in 2003.
Mt Carlton	Australia	Queensland	Tailings Storage Facility Mt Carlton	20°15'45.42"S 147°34'5.72"E	100% Evolution owned	Active	2012	Yes	Downstream embankment raised - HDPE lined	24	5.8	6.85	Sep-20	Yes	Significant	ANCOLD (2019), Manual for Assessing Consequence Categories and Hydraulic Performance of Structures(DEHP)	No	Both	Undertaken	a) Yes b) Yes	Yes - Tailings facility design guidelines include evaluation of extreme weather events	
Mt Rawdon	Australia	Queensland	Mt Rawdon TSF	25°15'44.10"S 151°45'19.17"E	100% Evolution owned	Active	2000	Yes	Upstream, Centreline and Downstream	68.5m(Northern Embankment) 54.5m(South Embankment) 25.5m(South embankment)	55.8	67.3	Oct-20	Yes	High	ANCOLD (2019), Manual for Assessing Consequence Categories and Hydraulic Performance of Structures(DEHP)	No	Both	Undertaken	a) Yes b) Yes	Yes - Tailings facility design guidelines include evaluation of extreme weather events	
Red Lake	Canada	Ontario	Campbell Complex	51° 3'55.02"N 93°45'18.91"W	100% Evolution owned	Active	1983	Yes	Upstream	varying heights - max 15	7.5	9 - 10	Oct-20	Yes	Very High	Canadian Dam Association & Ontario MNR	No	Both	Yes 2018	a) Yes b) Yes	No	
			RLC Tailings Area 1 (TA1)	51° 3'42.70"N 93°41'58.66"W	100% Evolution owned	Active	2003	Yes	Downstream for SD#1, Upstream for East End Dam and North Dam	8.3	6	7	Oct-20	Yes	Low	Canadian Dam Association & Ontario MNR	No	Both	Yes 2018	a) Yes b) Yes	No	
			RLC Tailings Area 2 (TA2)	51° 3'49.94"N 93°42'28.62"W	100% Evolution owned	Active	2005	Yes	Centerline for SD#2	6.5	Combined TA1	Combined TA1	Oct-20	Yes	Significant	Canadian Dam Association and Ontario MNR at the time of construction	No	Both	Yes 2018	a) Yes b) Yes	No	
			Cochenour Dam 2 Pond	51° 4'21.32"N 93°47'57.40"W	100% Evolution owned	Inactive / Care & Maintenance	1981 for Dam 2, 2013 for North Dyke	Yes	Centreline	4.2	1.8	1.8	Oct-20	Yes	Significant	Canadian Dam Association and Ontario MNR for newer construction	No	Both	Yes	a) Yes b) Yes	No	
			Cochenour Dam 3 Pond	51° 3'59.17"N 93°48'40.74"W	100% Evolution owned	Inactive / Care & Maintenance	1958 for Dam 3, 2010 for South dyke	Yes	Centreline	7	Combined Dam 2 Pond	Combined Dam 2 Pond	Oct-20	Yes	High	Canadian Dam Association and Ontario MNR for newer construction	No	Both	Yes	a) Yes b) Yes	No	
			Balmer Tailings	51° 4'13.77"N 93°44'38.48"W	100% Evolution owned	Inactive / Care & Maintenance	1970's	Yes	Other	4	2.5	2.5	Oct-20	Yes	Low	Canadian Dam Association and Ontario MNR for newer construction	No	Both	Yes	a) Yes b) Yes	No	
			Bateman TMA	51° 7'18.25"N 93°44'49.66"W	100% Evolution owned	Active	1980's	Yes	Other	10 South Dam	0.1	under evaluation	Jun-21	Yes	Very High (South Dam)	Canadian Dam Association and Ontario MNR for newer construction	No	Both	Yes	a) Yes b) Yes	No	