

EPL 10265 Surface Water	Units	Point 5 - Sampling of Challenger Dam					
		100th percentile Concentration Limit	Date				
			22/01/2025	23/04/2025	22/07/2025	28/10/2025	22/01/2026
Fluoride	mg/L	2	0.34	0.32	0.30	0.26	0.42
pH**	No unit	6.5-8.5	7.8	7.5	8.0	7.9	7.3
Conductivity @ 25C <sup>0</sup>	µS/cm	800	410	390	440	380	450
Total Suspended Solids	mg/L	50	27	17	5	<5	51
Biochemical Oxygen Demand (BOD <sub>5</sub> )	mg/L	30	<5	<5	<5	<5	<5
Total Cyanide	mg/L	0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Oil and Grease	mg/L	10	<5	<5	<5	<5	<5
Total Aluminium	µg/L	5000	51	200	260	16	130
Total Arsenic	µg/L	500	<1	<1	<1	<1	<1
Total Cadmium	µg/L	10	<0.1	<0.1	<0.1	<0.1	<0.1
Total Chromium	µg/L	1000	<1	<1	<1	<1	<1
Total Cobalt	µg/L	1000	<1	<1	<1	<1	<1
Total Copper	µg/L	400	5	<1	1	<1	<1
Total Lead	µg/L	100	1	<1	<1	<1	<1
Total Molybdenum	µg/L	150	<1	1	<1	<1	<1
Total Nickel	µg/L	1000	10	<1	1	<1	<1
Total Selenium	µg/L	20	<1	<1	<1	<1	<1
Total Zinc	µg/L	20000	9	<5	<5	<5	<5
Total Mercury	mg/L	0.002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Sulfate, SO <sub>4</sub>	mg/L	---	51	61	110	76	87
Chemical Oxygen Demand	mg/L	---	41	52	32	32	25
Anionic Surfactants as MBAS	mg/L	---	<0.1	0.2	0.3	0.2	<0.1
Total Manganese	µg/L	1200	8	34	23	9	34