

Quality of Water in the Vaal Barrage Reservoir

Date Sampled 28 April 2021



Interpretation of the results obtained from water samples collected at the respective sample points (refer map above).

Escherichia coli (E.coli) Predicted symptoms include: Skin irritations, infections & intestinal disorders*	E.coli counts per 100ml at sample points									
	1	2	3	4	5	6	7	8	9	10
	This Week	194	91	4,280	14,390	96	33	22	387	141,360
Last Week	260	24	11,870	4,410	1,300	4	4	74	64,880	9

Low risk of gastrointestinal disorders *E.coli* < 130 counts/100ml
Slight risk of gastrointestinal disorders *E.coli* 130 – 200 counts/100ml

Significant risk of gastrointestinal disorders *E.coli* 200 – 400 counts/100ml
High risk of gastrointestinal disorders *E.coli* > 400 counts/100ml

Blue Green Algae Predicted symptoms include: Skin irritations, infections & intestinal disorders*	Blue Green algae counts at sample points									
	1	2	3	4	5	6	7	8	9	10
	This Week	< 40	< 40	402	603	2,293	6,395	31,735	19,307	115
Last Week	80	724	362	121	< 40	2,534	3,137	724	1,931	19,186

Low Risk Blue Green algae < 20,000 cells/ml

Moderate Risk Blue Green algae 20,000 – 100,000 cells/ml

High Risk Blue Green algae > 100,000 cells/ml

Algal Pigments Predicted nuisance conditions include: Scums & smells	Algal pigments expressed as Chlorophyll-a levels at sample points									
	1	2	3	4	5	6	7	8	9	10
	This Week	9	429	2	15	59	106	468	166	62
Last Week	9	5	12	33	38	16	29	71	52	189

Low Risk Chlorophyll-a < 15ug/l

Moderate Risk Chlorophyll-a 15 - 30ug/l

High Risk Chlorophyll-a > 30ug/l

* If ingested. X Sample not received / no data available. Reports generated every Friday of the year.

DISCLAIMER: Although Rand Water has made every endeavour to make an accurate assessment of the parameters described above (based on published South African and international criteria), neither Rand Water, nor any of its officials, shall be responsible for any damage or health related problems that may result due to the use of the Vaal Barrage Reservoir for any purpose. The values reported are only an indicator of water quality, and low numbers are no guarantee of safe water.