

# Quality of Water in the Vaal Barrage Reservoir

Date Sampled 15 September 2021



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

<b>Escherichia coli (E.coli)</b> Predicted symptoms include: Skin irritations, infections & intestinal disorders*	<i>E.coli</i> counts per 100ml at sample points									
	1	2	3	4	5	6	7	8	9	10
	This Week	219	12	1,046	34,480	17,820	44	13	2,420	387,300
Last Week	276	1	20,460	23,820	1,986	57	11	1,553	686,700	15

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

<b>Blue Green Algae</b> 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	201	676	623	845	658	845	241	362	1,689
Last Week	80	< 40	804	177	483	268	603	2,896	362	121

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

<b>Algal Pigments</b> 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	2	17	4	5	9	104	189	195	24
Last Week	3	55	10	13	11	40	73	239	23	210

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.