

# Quality of Water in the Vaal Barrage Reservoir

Date Sampled 2 January 2019



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

<b><i>Escherichia coli</i> (<i>E. coli</i>)</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	29	No Data	3,640	2,420	78	261	261	3,784
Last Week	326	4	308	11,450	1,553	146	18	99	48,840	20
Guideline	Low risk of gastrointestinal disorders <i>E. coli</i> < 130 counts/100ml			Slight risk of gastrointestinal disorders <i>E. coli</i> 130 - 200 counts/100ml		Significant risk of gastrointestinal disorders <i>E. coli</i> 200 - 400 counts/100ml			High risk of gastrointestinal disorders <i>E. coli</i> > 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	159	3,333	< 40	< 40	3,229	358,414	22,818	9,364	969
Last Week	417	13,669	< 40	646	1,184	6,243	40,254	196,643	6,458	87,827
Guideline	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	7	10	13	21	21	845	30	33	10
Last Week	10	65	4	20	10	270	51	164	133	103
Guideline	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.