

# Quality of Water in the Vaal Barrage Reservoir

Date Sampled 18 October 2017



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	261	8	435	5,040	517	291	21	62	687
Last Week	236	11	1,986	770	2,420	228	40	13	12,590	1
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	< 40	20,192	1,166	1,086	< 40	915	483	52	112
Last Week	< 40	241	121	121	381	402	2,051	965	4,183	536
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	22	12	6	12	74	22	5	36	11
Last Week	16	4	12	1	8	4	4	85	10	5
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.