

# Quality of Water in the Vaal Barrage Reservoir

Date Sampled 11 March 2020



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	275	23	1,986	21,430	41,060	22	5	61	81,300
Last Week	328	52	15,290	27,550	14,970	727	8	361	72,700	16
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	483	3,741	603	1,689	1,086	13,394	10,739	84,362	3,861
Last Week	464	282	40	362	701	1,635	1,738	88,690	1,086	6,395
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	3	8	7	7	54	92	56	161	28
Last Week	4	4	6	5	9	15	37	85	21	54
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. The values reported are only an indicator of water quality, and low numbers are no guarantee of safe water.