

Quality of Water in the Vaal Barrage Reservoir

Date Sampled 15 January 2020



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

<i>Escherichia coli</i> (<i>E.coli</i>) 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	260	145	2,420	8,330	1,580	27	3	47	6,020
Last Week	308	28	2,420	1,986	13,140	126	127	816	2,920	9
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	

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	969	32,828	108	4,198	4,521	33,366	8,437,1334	25,401	8,180
Last Week	431	1,507	108	122,054	16,898	842	8,445	273,169	86,105	124,530
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			

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	3	17	5	18	87	56	63	146	61
Last Week	5	7	7	457	47	21	34	801	49	129
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.